Filing Receipt

Received - 2022-09-02 02:35:09 PM
Control Number - 51407
ItemNumber - 70

DOCKET NO. 51407

APPLICATION OF DOS AGUAS, LLC FOR A WATER CERTIFICATE OF CONVENIENCE AND NECESSITY IN WALKER, MONTGOMERY, AND SAN JACINTO COUNTIES	§ § § § § §	**PUBLIC UTILITY COMMISSION OF TEXAS**

RESPONSE TO ORDER NO. 12

On October 9, 2020, Dos Aguas, LLC (Dos Aguas) filed an application with the Commission to obtain a water certificate of convenience and necessity (CCN) in Walker, San Jacinto, and Montgomery counties. The originally requested service area consisted of approximately 5,387 acres to be developed into 292 one-acre lots in Walker County and 1,800 to 1,900 one and one-half to two acre-lots in Montgomery County. On May 27, 2022, Dos Aguas filed an amended application with revised mapping, which reduced the requested service area to 2,753 acres. On August 1, 2022, Commission Staff (Staff) of the Public Utility Commission of Texas (Commission) recommended that the application be approved.

On August 26, 2022, Order No. 12 in this proceeding was issued, requiring Dos Aguas to Provide additional clarification on two questions by September 2, 2022. Therefore, this pleading is timely filed.

I. ADDITIONAL CLARIFICATION

Order No. 12, requests clarification on the following two items:

1. Clarification regarding whether the TCEQ has made any determination or issued any approval regarding whether Dos Aguas' distribution system can be placed into service and whether Dos Aguas has adequate water treatment plant capacity for 583 connections.

2. A general location map of the requested area overlayed with the subdivision sections that have been approved or are pending approval.

Dos Aguas provides responses below to each of the requests with attached documentation in order to better address the questions. However, in the event the responses do not provide the information the ALJ seeks, Dos Aguas requests the opportunity for a telephonic or virtual hearing

to make sure Dos Aguas is properly addressing any concerns the ALJ may have. Dos Aguas has conferred with Staff who is unopposed to such a hearing.

Dos Aguas is currently not charging for the water usage it is providing, which is amounting to in excess of $13,500 per month. This monthly amount is anticipated to increase until a final order may be issued in this case. Dos Aguas therefore respectfully requests that this case be processed as expeditiously as possible and placed on the earliest open meeting that may be permitted.

II. CLARIFICATION REGARDING WHETHER THE TCEQ HAS MADE ANY DETERMINATION OR ISSUED ANY APPROVAL REGARDING WHETHER DOS AGUAS' DISTRIBUTION SYSTEM CAN BE PLACED INTO SERVICE AND WHETHER DOS AGUAS HAS ADEQUATE WATER TREATMENT PLANT CAPACITY FOR 583 CONNECTIONS

Dos Aguas interprets the question to ask whether TCEQ has approved 1) the distribution system for placement in service and 2) whether Dos Aguas has adequate water treatment capacity for 583 connections.

Dos Aguas is attaching, as Attachment A, an engineering report created to address the ALJ's questions. As stated in the engineering report, the TCEQ has approved the distribution system to be placed in service, subject to future requirements for Dos Aguas to meet the capacity needs of the water system as the service area grows over time.[1] TCEQ monitors production capacity and customer demands and requires capacity upgrades as the customer demands approach the production capacity. TCEQ quantifies demand primarily by connections, which are established for on-going construction projects once construction is completed on a house or people are living on the lot and the water system is interconnected.[2] Dos Aguas plans on adding capacity in advance of approaching any of the minimum capacity requirements imposed by TCEQ. However, TCEQ

---

[1] Attachment A at 1.

[2] *See* 30 Tex. Admin. Code § 290.38(14) (defining connection as "[a] single family residential unit or each commercial or industrial establishment to which drinking water is supplied from the system."); *see also* TCEQ GUIDANCE: *Determining Connections and Populations Served for Public Water Systems*, Water Supply Division and Office of Compliance and Enforcement Regional Areas, Staff Guidance Document at 7 (January 2019) (available at https://www.tceq.texas.gov/downloads/drinking-water/population-connetion-guidance.pdf) (providing an example for on-going construction as "[o]nce construction is complete on a house or people are living on the lot [and the PWS connection has been completed], it then it becomes a single family residential unit to which drinking water is supplied from the system, i.e. then it becomes a connection.").

does not require that the current production capacity meet the potential needs of future customers that have not constructed homes or have not been connected in the construction process.

Also as stated in the engineering report, Dos Aguas has the production capacity to serve 583 connections,[3] although its current customer count is far below that level, which was 38 as of the filing of the Amended Complaint. As mentioned above, TCEQ only monitors the production capacity to serve current customer connections, thus it has not made any determinations as to whether the production facilities are capable of serving 583 connections. However, the determination of Dos Aguas' production capacity of 583 connections is provided in the attached engineering report using TCEQ methodologies used in assessing the capacity needs per connection count.[4]

Although TCEQ does not require the addition of capacity until the demands approach the available capacity, the attached engineering report demonstrates that Dos Aguas is currently well positioned to serve current customers as well as anticipated customers years into the future, as stated in Dos Aguas' Amended Application. Also as shown by the attached engineering report, Dos Aguas is currently well positioned to add capacity through various means already underway. Dos Aguas does not believe that it would be prudent, and the TCEQ does not require, to place investment in service today that may not be needed at all for years to come.

III. A GENERAL LOCATION MAP OF THE REQUESTED AREA OVERLAYED WITH THE SUBDIVISION SECTIONS THAT HAVE BEEN APPROVED OR ARE PENDING APPROVAL.

Dos Aguas interprets the request to be for a map of the requested amended service area overlayed with the subdivision sections that have been approved either 1) for platting or 2) for the distribution system. Dos Aguas is providing a map, as Attachment B hereto, which overlays the amended service area with subdivisions and lots that have platting approved by the counties and distribution facilities approved by TCEQ and installed by Dos Aguas. The amended service area has been fully platted and contains a fully completed and approved distribution system.

---

[3] *See* Attachment A at 2-3 ("Although the other components of the water plant seem to exceed the connection count capacity number of 583 connections, Table-4 shows that Water Well-1 is the limiting factor for the Dos Aguas Water System as it stands currently.")

[4] *See* Attachment A (citing 30 Tex. Admin. Code § 290.45).

Dos Aguas filed the attached map with its Amended Complaint as Attachment K (which is located on page 267 of Item No. 59 on the Interchange). In responding to the requests, Dos Aguas discovered that the scanned version of its Amended Application (Item No. 59 on the Interchange) had inadvertently been cut off at page 200 of the 309 page filing on the Interchange. Dos Aguas has contacted Central Records and the issue has been resolved and all 309 pages are now available in the scanned version (the zip file contained the full filing). Thus, the last 109 pages of the Amended Application, including Attachment K, did not fully populate on the interchange until recently remedied by Central Records.

IV. CONCLUSION

Dos Aguas respectfully requests that the Commission grant an order approving the CCN for Dos Aguas. In the event the responses do not provide the information the ALJ seeks, Dos Aguas requests the opportunity for a telephonic or virtual hearing to make sure Dos Aguas is properly addressing any concerns the ALJ may have.

Dos Aguas is currently not charging for the water usage it is providing, which is amounting to in excess of $13,500 per month. This monthly amount is anticipated to increase until a final order may be issued in this case. Dos Aguas therefore respectfully requests that this case be processed as expeditiously as possible and placed on the earliest open meeting that may be permitted.

Respectfully submitted,

Naman, Howell, Smith & Lee, PLLC
8310 N. Capital of Texas Highway, Suite 490
Austin, Texas 78731
(512) 479-0300
(512) 474-1901 (Facsimile)

Stephen Mack
State Bar No. 24041374
smack@namanhowell.com

Attorneys for Dos Aguas, LLC

DOCKET NO. 51407

CERTIFICATE OF SERVICE

I certify that, unless otherwise ordered by the presiding officer, notice of the filing of this document was provided to all parties of record via electronic mail on the 2nd day of September, 2022, in accordance with the Order Suspending Rules, issued in Project No. 50664.

Stephen Mack

Attachment A
Dos Aguas' Engineering Report
Spear Point Engineering, LLC

SPEAR POINT ENGINEERING, LLC

Spear Point Engineering, LLC
TBPE Firm No. 18904
604 W. Worsham St., Ste 100
Willis, Texas 77378
www.SPETexas.com

September 02, 2022

Re: Requiring Clarification
PUC Docket No. 51407 ; SPE Job#: 1100

Dear Mr. Issac Ta,

This letter is in response to the PUC's clarification request dated August 26, 2022, in regard to the Dos Aguas Water System. Spear Point Engineering, LLC ("SPE") was hired by Dos Aguas Water Company to design and permit the water facilities associated with the Dos Aguas water system. The Dos Aguas system was initially designed for the planned Republic Grand Ranch (RGR) and Deer Forest (DF) subdivision developments in the Montgomery and Walker counties of Texas. The entire development for the two subdivisions will encompass a total of +/- 2,100 single family residential lots at its final stage. Therefore, the water distribution system was initially designed and permitted with the ultimate future lot count in mind. **Attachment-A** is the initial submittal letter associated with the distribution system that was sent to the TCEQ on April 26, 2021. Subsequently, the TCEQ issued a conditional approval letter on June 3, 2021 (P-04262021-179) for the aforementioned water distribution system, included as **Attachment-B**. The Distribution System is therefore authorized to be placed into service, subject to future requirements for Dos Aguas to meet the capacity needs of the water system as the service area grows overtime.

For the water plants, the Dos Aguas water system is planning to serve the entirety of the two subdivision developments through phases overtime. For that purpose, currently there are two water plants that have been permitted and approved by the TCEQ. The approval for Water Plant #1 (WP#1 ; P-01292021-184) and the approval for Water Plant #2 (WP#2; P-01292021-184) was received on February 25, 2021. Both of the water plant approval letters from TCEQ are included in this letter as **Attachment-C**. The following Table-1 shows the components which were listed on the approval letters for both facilities.

Table 1: Components Listed on the TCEQ Approval Letters associated with WP#1 & WP#2 of the Dos Aguas Water System.

Component Description	Location	Size	Unit	30 TAC 290 Requirement	Unit	Potential Connections
Water Well No. 1 (WW-1)	Water Plant #1 (WP-1)	175	gpm	0.6	gpm	291
Water Well No. 1 (WW-2)	Water Plant #2 (WP-2)	175	gpm	0.6	gpm	291
					Total Well Capacity	**582**
Ground Storage Tank -1 (GST-1)	Water Plant #1 (WP-1)	35,000	gal	200	gal	175
Ground Storage Tank -2 (GST-2)	Water Plant #2 (WP-2)	35,000	gal	200	gal	175
					Total Storage Tank Capacity	**350**

Hydro-pneumatic Tank -1 (HTP-1)	Water Plant #1 (WP-1)	3,000	Gal	20	gal	150
Hydro-pneumatic Tank -2 (HTP-2)	Water Plant #1 (WP-1)	3,000	Gal	20	gal	150
Hydro-pneumatic Tank -3 (HTP-3)	Water Plant #2 (WP-2)	3,000	Gal	20	Gal	150
Hydro-pneumatic Tank -4 (HTP-4)	Water Plant #2 (WP-2)	3,000	Gal	20	Gal	150
					Total Pressure Tank Capacity	**600**
Booster Pump - 1	Water Plant #1 (WP-1)	200	gpm	2.0	gpm	100
Booster Pump - 2	Water Plant #1 (WP-1)	200	gpm	2.0	gpm	100
Booster Pump - 3	Water Plant #2 (WP-2)	200	gpm	2.0	gpm	100
Booster Pump - 4	Water Plant #2 (WP-2)	200	gpm	2.0	gpm	100
					Total Booster Pump Capacity	**400**

Water Well-1 of WP#1 was drilled and tested to produce significantly higher amounts of water than what was initially anticipated and permitted (350 gpm instead of 175 gpm). Hence, the other components of WP#1 were scaled up to fully utilize the increased water production rate of Water Well-1. As a result, Dos Aguas's WP#1 capacities are significantly higher than the minimum listed on the TCEQ approval letter associated with Water Plant #1 (P-01292021-184). The TCEQ was notified of Water Well-1's completion and has approved the well for use and bringing Water Well-1 into service. Based on what is currently installed at WP#1, Table-2 depicts the current capacities provided thereof.

Table 2: Component List currently installed at Water Plant #1 of the Dos Aguas system.

Component Description	**Location**	**Size**	**Unit**	**30 TAC 290 Requirement**	**Unit**	**Potential Connections**
Water Well No. 1 (WW-1)	Water Plant #1	350	gpm	0.6	gpm	583
					Total Well Capacity	**583**
Ground Storage Tank -1 (GST-1)	Water Plant #1	80,000	gal	200	gal	400
Ground Storage Tank -2 (GST-2)	Water Plant #1	20,000	gal	200	gal	100
					Total Storage Tank Capacity	**500**
Hydro-pneumatic Tank -1 (HTP-1)	Water Plant #1	5,000	Gal	20	gal	250
Hydro-pneumatic Tank -2 (HTP-2)	Water Plant #1	5,000	Gal	20	gal	250
					Total Pressure Tank Capacity	**500**
Booster Pump - 1	Water Plant #1	240	gpm	2.0	gpm	120
Booster Pump - 2	Water Plant #1	240	gpm	2.0	gpm	120

Booster Pump - 3	Water Plant #1	240	gpm	2.0	gpm	120
					Total Booster Pump Capacity	**360**

Additionally, the Dos Aguas water system is in the process of completing the construction of WP#2. Dos Aguas plans to install components that will meet the component capacities listed on the approval letter associated with Water Plant #2 (P-01292021-185). However, similar to WP#1, Dos Aguas intends to scale up the components of WP#2 if the Water Well-2 production is also much higher than the 175 gpm that was permitted. Table-3 lists the minimum capacities of WP#2 based on the approved TCEQ amounts. WP#2 is currently in construction and is projected to be completed by the end of 2022 year.

Table 3: Component List to be installed at Water Plant #2 of the Dos Aguas system.

Component Description	**Location**	**Size**	**Unit**	**30 TAC 290 Requirement**	**Unit**	**Potential Connections**
Water Well No. 2 (WW-2)	To be installed at WP#2	Pending	gpm	0.6	gpm	Pending
					Total Well Capacity	**Pending**
Ground Storage Tank -3 (GST-3)	To be installed at WP#2	35,000 (min)	gal	200	gal	175
					Total Storage Tank Capacity	**175**
Hydro-pneumatic Tank -3 (HTP-3)	To be installed at WP#2	3,000 (min)	Gal	20	gal	150
Hydro-pneumatic Tank -4 (HTP-4)	To be installed at WP#2	3,000 (min)	Gal	20	gal	150
					Total Pressure Tank Capacity	**300**
Booster Pump - 4	To be installed at WP#2	200 (min)	gpm	2.0	gpm	100
Booster Pump - 5	To be installed at WP#2	200 (min)	gpm	2.0	gpm	100
Booster Pump - 6	To be installed at WP#2	200 (min)	gpm	2.0	gpm	100
					Total Booster Pump Capacity	**300**

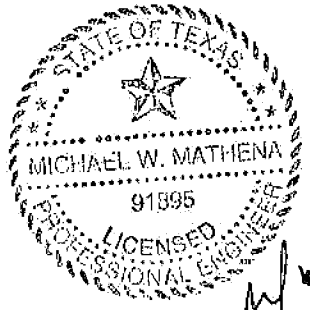
With both WP#1 and WP#2 online in the Dos Aguas water system, the following Table-4 depicts the combined capacities. Once the construction for the first two water plants have been fully completed, the TCEQ As-Built submittals will be initiated in order to document the scaled-up capabilities of the water plants. No further authorization is required by TCEQ for going above the minimum components listed on the approval letters. Although the other components of the water plant seem to exceed the connection count capacity number of 583 connections, Table-4 shows that Water Well-1 is the limiting factor for the Dos Aguas Water System as it stands currently. However, once the anticipated Water Well-2 is drilled and completed at WP#2, the connection count capacity of this system will increase.

Table 4: Combined water plant capacities provided by Water Plant #1 & Water Plant #2 of the Dos Aguas Water System.

Component Description	Combined Connection Count Capacities
Combined Water Wells	583 + N/A = 583
Combined Ground Storage Tanks	500 + 175 = 675
Combined Pressure Tank Capacity	500 + 300 = 800
Combined Booster Pump Capacity	360 + 300 = 660

Furthermore, within the next 5 to 10 years, the Dos Aguas water system will be upgraded with more water plant facilities (WP#3, WP#4, etc.) in order to provide more capacity for the anticipated service area and ultimate subdivision developments. Each water plant within the Dos Aguas water system is also designed in such a way to allow further expansion if required demands change over time. Should you have any further questions or concerns on this matter, please contact me at this office or at (936) 207-9984.

Sincerely,



Michael Mathena, P.E

cc: Mr. Scott Rohe, President
Mr. Stephen Mack
Mr. Jerry McCrorey

w/ attachments:

Attachment A – Dos Aguas Water Distribution System TCEQ Submittal & Maps
Attachment B – TCEQ Dos Aguas Water Distribution System Approval
Attachment C – TCEQ Dos Aguas Water Plant 1 & 2 Approval Letters

Attachment-A

Dos Aguas Water Distribution System TCEQ

Submittal & Maps

Spear Point Engineering, LLC
TBPE Firm No. 18904
604 W. Worsham St., Suite 100
Willis, TX 77378
www.SPETexas.com

April 26, 2021

Texas Commission of Environmental Quality
Plan & Technical Review Section
Water Supply Division MC-159
P.O. Box 13087
Austin, Texas 78711-3087

Attn: Ms. Vera Poe, P.E.

Re: Dos Aquas Water Company
Walker County, Texas
PWS ID No. 1700917 ; Public Utilities Commission of Texas - Docket No. 51407
Owner: Dos Aquas Water Company
SPE Job No. 1100

Dear Ms. Poe:

This letter is notification that the Dos Aquas Water Company intends to construct a water distribution system in accordance with TCEQ Rule 290.39. This water distribution system will be approximately 9,312 linear feet of 4-inch SDR-26 PVC waterline, 13,180 linear feet of 6-inch SDR-26 PVC waterline, and 201,240 linear feet of 8-inch SDR-26 PVC waterline to the system. This public water system will serve the +/- 2,100 single family residential lots planned within the Republic Grand Ranch Development and Deer Forest Development.

Plans have been prepared in accordance with TCEQ Rule 290 and are attached for you use. Thank you for your consideration.

Regards,

Brett Wyant, PE

STATE OF TEXAS
BRETT WYANT
118933
LICENSED
PROFESSIONAL ENGINEER

4/26/2021

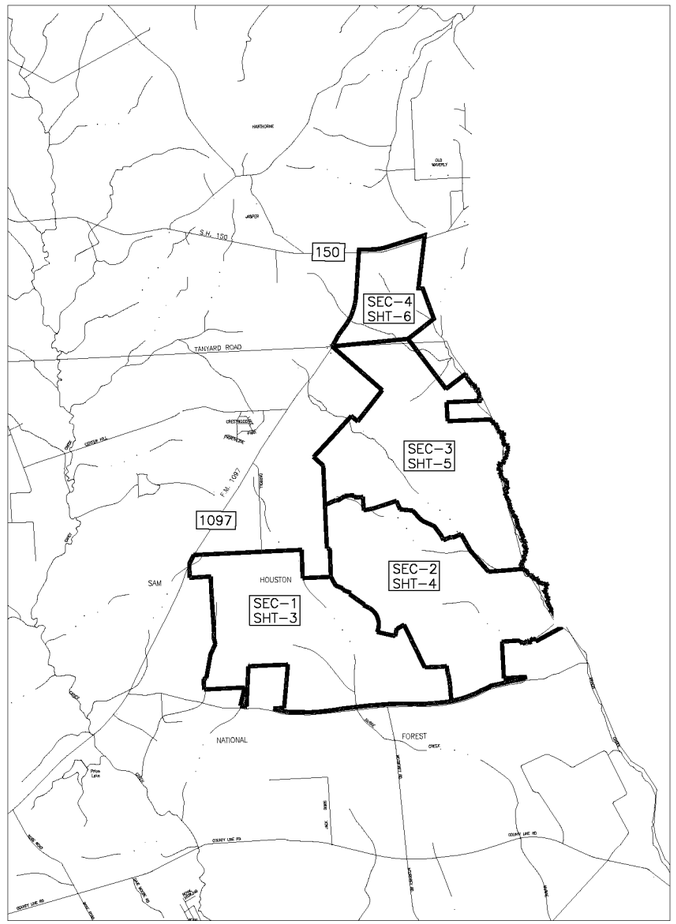
Attachments
TCEQ Public Water System Plan Review Submittal Form (10233)
1 set of Dos Aquas Water System One Line Plans
PDF set of Plans & Specifications

CC: Spear Point Engineering File

DOS AQUAS WATER SYSTEMS

MONTGOMERY COUNTY & WALKER, TEXAS

MAY 2021



VICINITY MAP
SCALE : NONE

N

INDEX	
Sheet #	Sheet Title
1	COVER
2	LEGENDS & NOTES
3	SECTION 1
4	SECTION 2
5	SECTION 3
6	SECTION 4
7	CONSTRUCTION DETAILS AND NOTES

REV	DATE
COMMENT	

REV	DATE
COMMENT	

STATE OF TEXAS
BRETT WYANT
118933
LICENSED
PROFESSIONAL ENGINEER
5/7/2021

COVER SHEET

DOS AQUAS WATER SYSTEM

SPEAR POINT ENGINEERING, LLC
TBPE Firm No. 18904
604 W. WORSHAM STE A
WILLIS,TX 77378

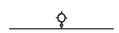
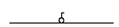
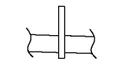
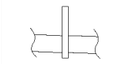
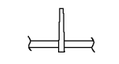
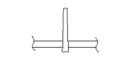
PREPARED FOR:
DOS AQUAS LLC
455 FM 2296
HUNTSVILLE, Tx 77340
(936)295-4809

PROJECT NUMBER
1100

FILE NAME:

SHEET:
1 OF: 7

SYMBOLS LEGEND

PLAN VIEW	PROPOSED	EXISTING
STORM SEWER INLET (CURB TYPE)		
STORM SEWER MANHOLE		
SANITARY SEWER MANHOLE		
WATER TAPPING SLEEVE & VALVE		
WATER LINE GATE VALVE & BOX		
FLUSH VALVE		
BLOW OFF VALVE & PLUG		
REDUCER		
SANITARY SEWER STACK		
SANITARY SEWER CLEANOUT		
SANITARY SEWER WYE		
UTILITY ENCASEMENT		
STREET LIGHTS		
DRAINAGE FLOW		
WATER WELL		
GROUND STORAGE TANK		
ELEVATED STORAGE TANK		
STORM SEWER MANHOLE		
SANITARY SEWER MANHOLE		

ABBREVIATIONS

AE	ACCESS EASEMENT
ARV	AIR RELEASE VALVE
ASPH	ASPHALT
BL	BUILDING LINE
BOV&B	BLOW OFF VALVE AND BOX
CL	CENTERLINE
CONC	CONCRETE
DA	DRAINAGE AREA
DE	DRAINAGE EASEMENT
DWY	DRIVEWAY
EA	EACH
ESMT	EASEMENT
EP	EDGE OF PAVEMENT
EXIST	EXISTING
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FV	FLUSH VALVE
FL	FLOW LINE
FND.	FOUND
FP	FLOODPLAIN
FW	FLOODWAY
GV	GATE VALVE
GV&B	GATE VALVE AND BOX
GFL	GUTTER FLOW LINE
GW or GUY	GUY WIRE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
INT	INTERSECTION
I.P. or IP	IRON PIPE
I.R. or IR	IRON ROD
JB	JUNCTION BOX
LT	LEFT
LF	LINEAR FEET
MH	MANHOLE
MEP	MATCH EXISTING PAVEMENT
MAX	MAXIMUM
MIN	MINIMUM
NG	NATURAL GROUND
PVMT	PAVEMENT
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
PVI	POINT OF VERTICAL INTERSECTION
PVC	POLYVINYL CHLORIDE PIPE
PP	POWER POLE
PROP	PROPOSED
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
RT	RIGHT
ROW	RIGHT OF WAY
SAN SWR	SANITARY SEWER
SHT	SHEET
SHLDR	SHOULDER
SNGL	SINGLE
SF	SQUARE FEET
STA	STATION
TEMP	TEMPORARY
TC	TOP OF CURB
TG	TOP OF GRATE
TP	TOP OF PAVEMENT
TW	TOP OF WALK
TPE	TREE PRESERVATION EASEMENT
TPZ	TREE PRESERVATION ZONE
TYP	TYPICAL
UE	UTILITY EASEMENT
VWDE	VARIABLE WIDTH DRAINAGE EASEMENT
WL	WATER LINE
WTR SVC	WATER SERVICE
WSE	WATER SURFACE ELEVATION

GENERAL NOTES:

1. THE CONTRACTOR SHALL ADHERE TO ALL TEXAS COMMISION ON ENVIROMENTAL QUALITY (TCEQ) DETAILS AND SPECIFICATIONS FOR PROPOSED WATER DISTRIBUTION IMPROVEMENTS.

2. REVISIONS TO THESE ENGINEERING PLANS MUST BE AUTHORIZED BY SPEAR POINT ENGINEERING PRIOR TO CONSTRUCTION. (936) 718-1998

3. THE CONTRACTOR SHALL:
   a. NOTIFY SPEAR POINT ENGINEERING (936-718-1998) A MINIMUM OF 48 HRS BEFORE COMMENCING WORK.
   b. NOTIFY ALL APPROPRIATE UTILITY COMPANIES 48 HOURS PRIOR TO ANY EXCAVATION.
   c. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR ENGINEER APPROVAL.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY AND SAFETY PROVISIONS FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE STORAGE OF MATERIALS IN SAFE AND WORKMANLIKE MANNER TO PREVENT IINJURIES DURING ALL HOURS UNTIL PROJECT COMPLETION.

5. CONTRACTOR IS RESPONSIBLE FOR KEEPING ACCURATE RECORDS SHOWING THE INSTALLED LOCATIONS OF ALL IMPROVEMENTS, AND SHALL PROVIDE TO THE ENGINEER UPON PROJECT COMPLETION.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE MUD AND/OR DIRT DEPOSITED ON EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY DAILY. ALL EQUIPMENT AND DEBRIS FROM CONSTRUCTION TO BE REMOVED FROM THE SITE AT END OF PROJECT.

7. AFTER DISTURBED AREAS HAVE BEEN COMPLETED TO THE LINES, GRADES, AND CROSS-SECTIONS SHOWN ON THE PLANS, CONTRACTOR IS RESPONSIBLE FOR ACHIEVING 70% VEGETATION COVERAGE.

8. SIGNING, BARRICADING AND LIGHTING FOR CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND OTHER APPLICABLE STATE OR LOCAL STANDARDS. SIGNS, BARRICADES AND LIGHTS SHALL BE KEPT CLEAN, OPERATIONAL AND PROPERLY POSITIONED TO ASSURE PROPER SAFETY PRECAUTIONS.

9. ALL TESTING PROCEDURES USED ON THIS PROJECT SHALL CONFORM TO THE TCEQ, AWWA, NSF OR OTHER APPLICABLE STANDARDS. THE TESTING EXPENSE SHALL BE BORNE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.

10. TEXAS LAW ARTICLE 1436C, PROHIBITS ALL ACTIVITIES IN WHICH PERSONS OR EQUIPMENT MAY COME WITHIN 6 FEET OF ENERGIZED OVERHEAD POWER LINES, AND FEDERAL REGULATION, TITLE 29, PART 1910.130 (1) AND PART 1926.440 (A) (15) REQUIRE A MINIMUM CLEARANCE OF 10 FEET FROM THESE FACILITIES. THE ABOVE LAWS CARRY BOTH CRIMINAL AND CIVIL LIABILITIES, WITH CONTRACTORS AND OWNERS BEING LEGALLY RESPONSIBLE FOR THE SAFETY OF WORKERS UNDER THESE LAWS. IF YOU OR YOUR COMPANY MUST WORK NEAR OVERHEAD POWER LINES, CALL THE POWER COMPANY FOR THE LINES TO BE DE-ENERGIZED AND/OR MOVED AT YOUR EXPENSE.

11. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WITH FACILITIES IN THE PROJECT LOCATION A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES IN THE RESPECTIVE WORK AREAS. ADEQUATE PROVISIONS FOR PROTECTING EXISTING FACILITIES SHOULD BE EMPLOYED.

12. ALL UNDERGROUND UTILITY LINES, SHOWN ON THE PLANS ARE TO MAKE THE CONTRACTOR AWARE THAT THEY EXIST. NEITHER THE OWNER, NOR THE ENGINEER GUARANTEES THEIR ACCURACY. THERE IS NO GUARANTEE THAT ALL EXISTING UTILITIES ARE SHOWN.

13. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL CROSSINGS TO DETERMINE IF CONFLICTS EXIST BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICTS.

14. THE LATEST TCEQ REGULATIONS MUST BE FOLLOWED FOR CROSSINGS OF SANITARY SEWER MAINS AND WATER MAINS. IT IS THE INTENT THAT THE MOST ECONOMICALLY ACCEPTABLE ALTERNATIVE BE USED. ACCORDINGLY, FIELD VERIFICATION OF EXISTING UTILITY GRADES IS IMPERATIVE.

15. FINAL COVER OF INSTALLED LINES SHALL NOT BEGIN PRIOR TO OBSERVATION AND ACCEPTANCE BY THE OWNER OR ENGINEER.

16. CONNECTIONS TO EXISTING LINES SHALL INCLUDE ALL REQUIRED FITTINGS AND MATERIALS REQUIRED TO MAKE A TIE IN MEETING ALL APPLICABLE REQUIREMENTS.

17. THE LOADING AND UNLOADING OF ALL MATERIALS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL TAKE PLACE ON THE SITE. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIALS AND EQUIPMENT.

18. ALL MATERIALS AND EQUIPMENT SHALL BE BOTH FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.

19. CONSTRUCTION SHALL COMPLY WITH THE LATEST REVISIONS OF OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING TRENCHING AND SHORING. CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET, AS A MINIMUM, THE REQUIREMENTS OF OSHA SAFETY AND HEALTH REGULATION, PART 1926, SUB-PART P AS PUBLISHED IN THE FEDERAL REGISTER, VOLUME 54, NO. 209, DATED OCTOBER 31, 1989, AND LATEST REVISIONS.

20. DETAILS PREPARED DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY CHAPTER 756, SUBCHAPTER "C" OF THE TEXAS HEALTH AND SAFETY CODE.

21. CONTRACTOR IS RESPONSIBLE FOR COVERING OPEN EXCAVATIONS DURING NON-WORKING HOURS.

22. ALL TRENCHES, INCLUDING TRENCHES FOR LEADS AND STUBS UNDER PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PAVEMENT SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND AS PER SPECIFICATION TO A POINT IMMEDIATELY BELOW THE SUBGRADE. TRENCHES OTHER THAN UNDER PAVEMENT SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL IN 6 INCH LAYERS AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM DESIGNATION D-698/AASHTO T99). MOISTURE CONTENT OF BACKFILL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CEMENT STABILIZED SAND SPECIFICATIONS. SEE DETAIL SHEETS FOR BEDDING AND OTHER DESIGN REQUIREMENTS.

23. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, AND CONFIRM POINTS OF CONNECTIONS TO EXISTING IMPROVEMENTS, INCLUDING CONFIRMATION OF ELEVATIONS AND GRADES OF EXISTING FACILITIES AND UTILITIES PRIOR TO STARTING ANY GRADING, PAVING OR UTILITY INSTALLATION. VERIFICATION OF LOCATIONS AND FUNCTIONS OF EACH EXISTING STRUCTURE OR SYSTEM AND ALL EXISTING UTILITY GRADES AND INVERT ELEVATIONS IS THE CONTRACTOR'S RESPONSIBILITY. NOTIFY THE ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. ANY CONFLICTS OR ERRORS BETWEEN EXISTING FIELD CONDITIONS AND ENGINEERING PLANS MUST BE RESOLVED PRIOR TO STARTING EXCAVATION OR SETTING ANY GRAVITY SEWER (STORM OR SANITARY) AND APPURTENANCES. CONTRACTOR IS RESPONSIBLE FOR COMPLETING CERTIFICATION FORM 006293 IN THE BID PACKAGE PRIOR TO START OF CONSTRUCTION.

24. ALL UNSATISFACTORY AND/OR WASTE MATERIALS INCLUDING VEGETATION, ROOTS, CONCRETE AND DEBRIS SHALL BE HAULED OFF-SITE BY THE CONTRACTOR. INCLUDE COST OF THIS WORK, INCLUDING HAUL, IN OTHER ITEMS OF THIS PROJECT.

25. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF PROPOSED FACILITIES.

26. CONTRACTOR SHALL CONFINE ALL WORK EFFORTS WITHIN THE DESIGNATED WORK AREA UNLESS SPECIFICALLY AUTHORIZED BY THE OWNER. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO NEIGHBORING PROPERTIES

27. ALL OUTFALL DITCHES OUTSIDE OF THE RIGHT OF WAY AND DETENTION PONDS SHALL BE MAINTAINED BY REPUBLIC GRAND RANCH POA.

REV	DATE
COMMENT	

REV	DATE
COMMENT	

STATE OF TEXAS
BRETT WYANT
118933
LICENSED
PROFESSIONAL ENGINEER
5/7/2021

LEGEND AND NOTES

DOS AQUAS WATER SYSTEM

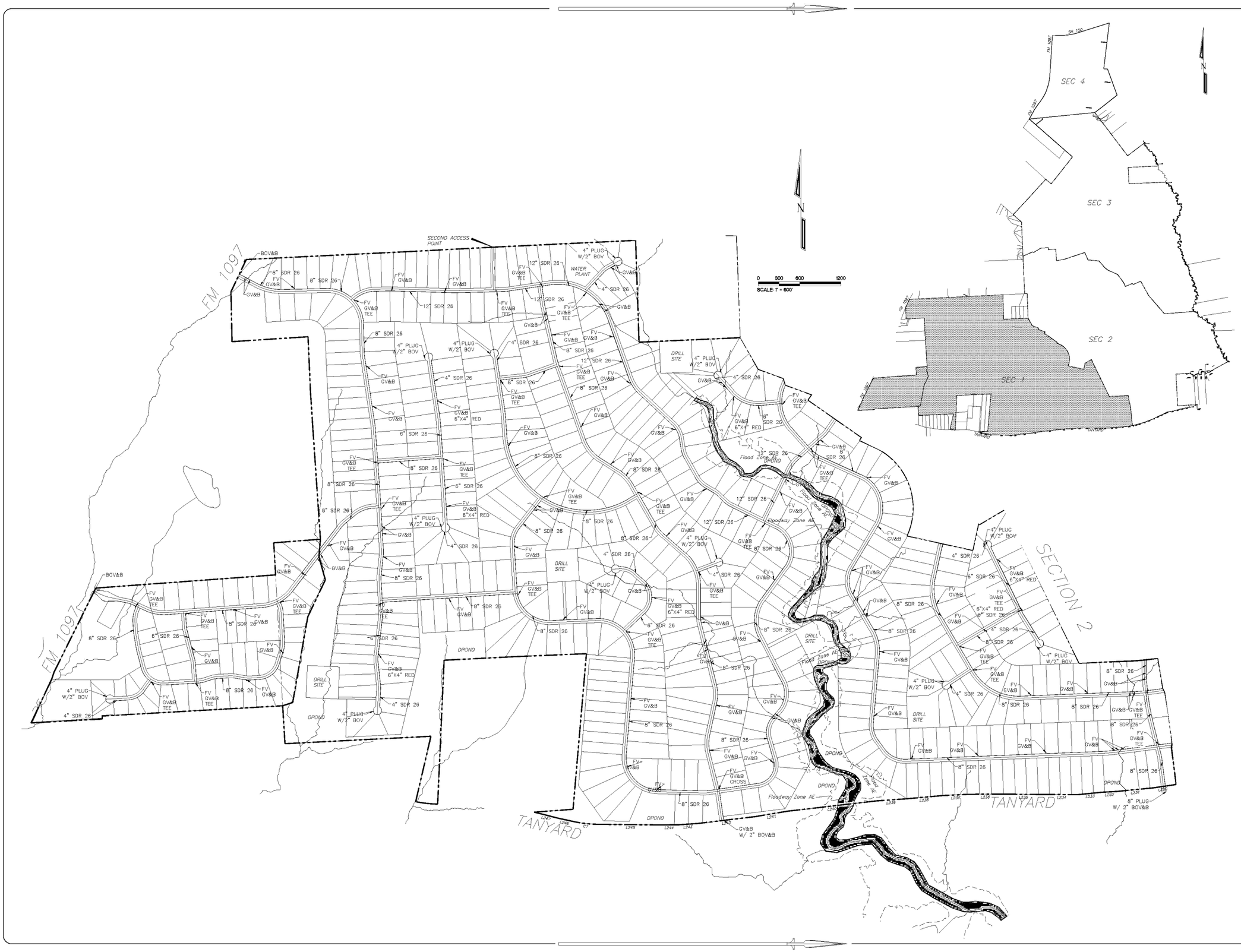
SPEAR POINT ENGINEERING, LLC
TBPE Firm No. 18904
604 W. WORSHAM STE A
WILLIS,TX 77378

PREPARED FOR:
DOS AQUAS LLC
455 FM 2296
HUNTSVILLE, TX 77340
(936)295-4809

PROJECT NUMBER
1100

FILE NAME:

SHEET: 2 OF: 7



REV	DATE
COMMENT	
REV	DATE
COMMENT	

STATE OF TEXAS
BRETT WYANT
118933
LICENSED
PROFESSIONAL ENGINEER
5/7/2021

SECTION 1

DOS AQUAS WATER SYSTEM

SPEAR POINT ENGINEERING, LLC
TBPE Firm No. 18904
604 W. WORSHAM STE A
WILLIS,TX 77378

PREPARED FOR:
DOS AQUAS LLC
455 FM 2296
HUNTSVILLE, TX 77340
(936)295-4809

PROJECT NUMBER
1100

FILE NAME:

SHEET:
3 OF: 7

SECTION 3

SECTION 1

1,557 AC
639 LOTS
73,500LF STREET

SCALE: 1" = 500

SEC 1
SEC 2
SEC 3
SEC 4

REV	DATE
COMMENT	
REV	DATE
COMMENT	

STATE OF TEXAS
BRETT WYANT
118933
LICENSED
PROFESSIONAL ENGINEER
5/7/2021

SECTION 2

DOS AQUAS WATER SYSTEM

SPEAR POINT ENGINEERING, LLC
TBPE Firm No. 18904
604 W. WORSHAM STE A
WILLIS,TX 77378

PREPARED FOR:
DOS AQUAS LLC
455 FM 2296
HUNTSVILLE, TX 77340
(936)295-4809

PROJECT NUMBER
1100

FILE NAME:

SHEET:
4 OF: 7

1,631 AC
636 LOTS
67,500LF STREET

SECTION 2

SECTION 4

SEC 4

SEC 3

SEC 2

SEC 1

N

0 250 500 1000
SCALE: 1" = 500'

REV	DATE
COMMENT	
REV	DATE
COMMENT	

STATE OF TEXAS
BRETT WYANT
118933
LICENSED
PROFESSIONAL ENGINEER
PE
5/7/2021

SECTION 3

DOS AQUAS WATER SYSTEM

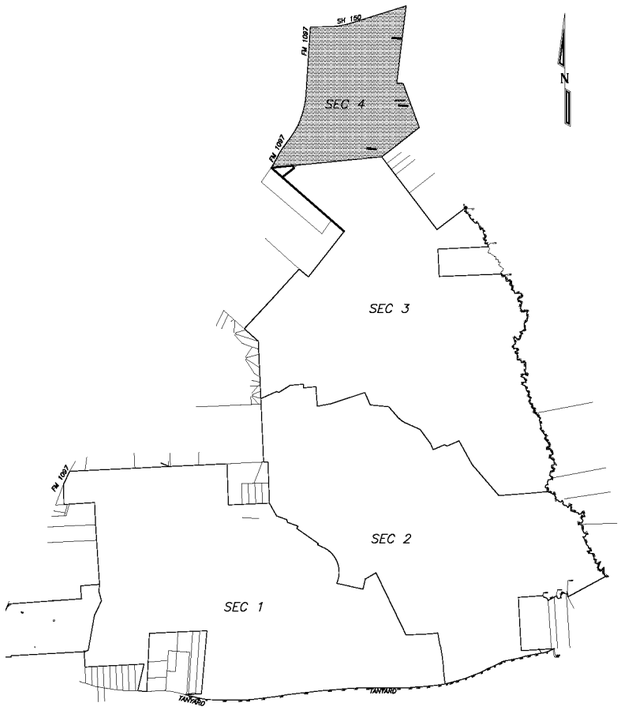
SPEAR POINT ENGINEERING, LLC
TBPE Firm No. 18904
604 W. WORSHAM STE A
WILLIS,TX 77378

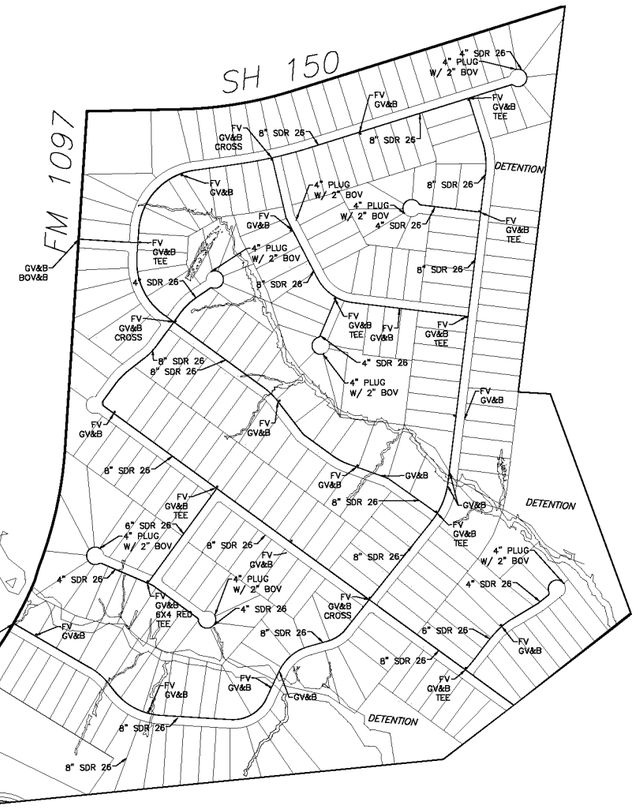
PREPARED FOR:
DOS AQUAS LLC
455 FM 2298
HUNTSVILLE, TX 77340
(936)295-4609

PROJECT NUMBER
1100

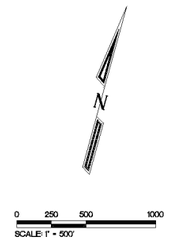
FILE NAME:

SHEET:
5 OF: 7





SECTION 3



REV	DATE
COMMENT	

REV	DATE
COMMENT	

STATE OF TEXAS
BRETT WYANT
118933
LICENSED
PROFESSIONAL ENGINEER
5/7/2021

SECTION 4

DOS AQUAS WATER SYSTEM

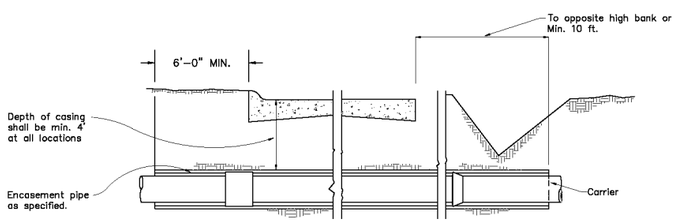
SPEAR POINT ENGINEERING, LLC
TBPE Firm No. 18904
604 W. WORSHAM STE A
WILLIS,TX 77378

PREPARED FOR:
DOS AQUAS LLC
455 FM 2296
HUNTSVILLE, TX 77340
(936)295-4809

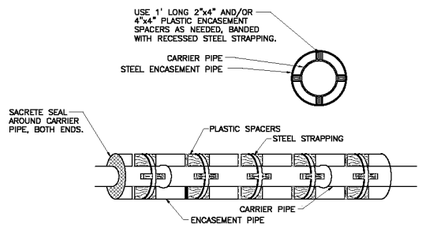
PROJECT NUMBER
1100

FILE NAME:

SHEET:
6 OF: 7



ROADWAY CROSSING



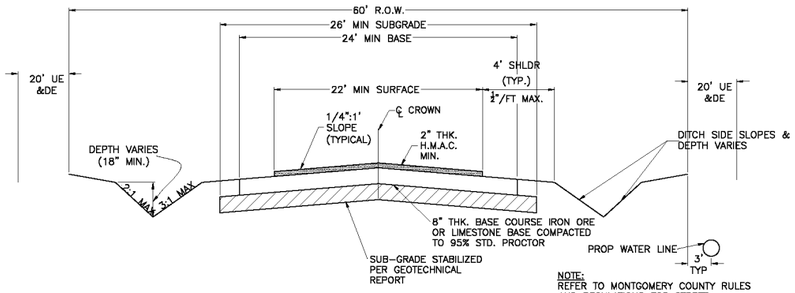
NOTE: LOCATE PLASTIC SPACERS ON EITHER SIDE OF CARRIER PIPE BELLS, THEN ONE SET CENTERED ON EACH JOINT.

CARRIER SIZE	MINIMUM ENCASEMENT STEEL PIPE
4" C 909	10" – .25 WALL
6" C 909	12" – .25 WALL
8" C 909	16" – .25 WALL
10" C 909	18" – .25 WALL
12" C 909	20" – .25 WALL
14" C 909	24" – .25 WALL
16" C 909	26" – .25 WALL
18" C 909	30" – .25 WALL
20" C 905	36" – .375 WALL
24" C 905	42" – .375 WALL

NOTES:
1. Steel casing shall have totally welded joints.
2. Steel casing shall be used in all bores.
3. Contractor to obtain permits prior to any construction at these crossings.

STANDARD BORED CROSSING

FOR WATERLINE



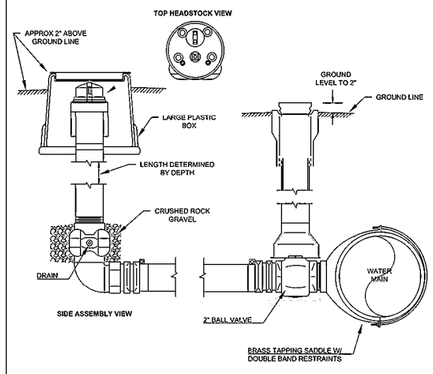
NOTE:
REFER TO MONTGOMERY COUNTY RULES AND REGULATIONS FOR STREET, DRAINAGE AND TESTING SPECIFICATIONS.

TYPICAL CROSS SECTION
COUNTY ROAD STANDARD DETAIL

NTS

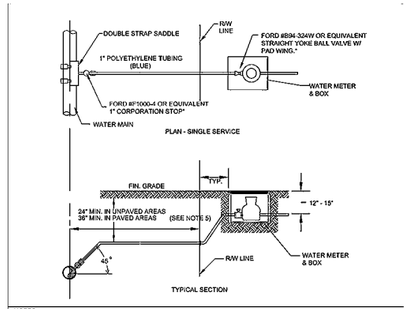
NOTES:

- THE LOTS CREATED WITHIN THE DOS AQUAS WATER SYSTEM WILL BE SERVED BY ON-SITE SEWAGE FACILITIES.
- WATER LINES SHALL HAVE A MINIMUM BURY DEPTH OF 4.0-FT BELOW NATURAL GROUND OR DITCH/SWALE FLOWLINES, WHICHEVER IS LOWER.
- FLUSH VALVES SHALL BE INSTALLED EVERY 1,000 LINEAR FEET AND AT PEAK ELEVATION POINTS ALONG THE WATER LINE.
- GATE VALVES SHALL BE INSTALLED EVERY 1,000 LINEAR FEET AND AT TEES AND CROSSES, WITH 1 LESS VALVE THAN THE NUMBER OF WATER LINE BRANCHES.
- WATER LINE CROSSINGS OF A RIGHT-OF-WAY SHALL BE CASED AND MAINTAIN THE MINIMUM 4.0-FT OF COVER.
- WATER LINE CROSSINGS OF DRAINAGE SWALES, BOTH NATURAL AND PROPOSED, SHALL BE CASED, MAINTAIN THE MINIMUM 4.0-FT OF COVER, AND HAVE ISOLATION GATE VALVES LOCATED AT EACH END OF THE CASING.



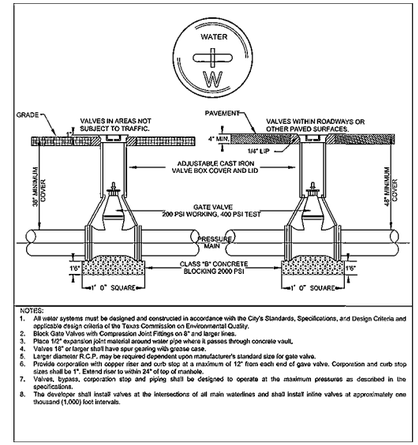
NOTES:
1. INCLUDE SIGNAGE MARKER LABELING AS "BLOWOFF APPROVED BY CITY".
2. BLOWOFF NOT ALLOWED IN ROADSIDE DITCHES OR BACKSLOPE.

STANDARD 2" BLOWOFF



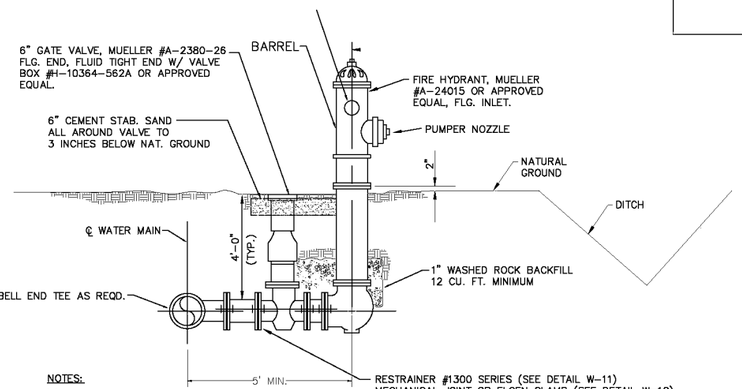
NOTES:
1. CUSTOMER POINT OF SERVICE IS TYPICALLY AT THE LOCATION WHERE CUSTOMER PLUMBING IS ATTACHED TO THE YOKE NUT.
2. ¾" COPPER TUBING FOR ¾" X ¾" METER INSTALLATION. 1" COPPER TUBING FOR 1" METER INSTALLATION.
3. HDPE SHALL BE 200 PSI, NSF APPROVED, SDR 9, MEETING ASTM D3248. TUBING SHALL BE ENDOT ENDOTRACE (OR APPROVED EQUAL).
4. REDUCED PRESSURE BACKFLOW PREVENTERS ARE REQUIRED FOR ALL COMMERCIAL SERVICES AND SHALL BE INSTALLED BY A CERTIFIED TECHNICIAN AT OWNERS EXPENSE.
5. ALL SERVICE TAPS SHALL BE NO CLOSER THAN 2'-0" STAGGERED INTERVAL OR WITHIN 2'-0" OF BELL OR SPIGOT ENDS.
6. IN AREAS TO BE PAVED PROVIDE A 2" MIN. PVC SCHEDULE 40 SLEEVE FOR PE-TUBING. SLEEVE SHALL EXTEND A MIN. OF 2' BEHIND BACK OF CURB AT EACH SIDE OF ROAD.
7. WATER METERS INSTALLED IN AREAS SERVED BY RECLAIMED WATER SHALL BE EQUIPPED WITH A DUAL CHECK BACKFLOW PREVENTER.
8. WATER METERS IN AREA SERVED WITH AN ALTERNATE IRRIGATION SUPPLY SHALL BE EQUIPPED WITH BACKFLOW PREVENTION TO BE APPROVED FOR USE BY CITY OF HUNTSVILLE.
9. THE CITY OF HUNTSVILLE WILL MAKE ALL STANDARD RESIDENTIAL WATER SERVICE CONNECTIONS, UNLESS WRITTEN APPROVAL TO DO OTHERWISE HAS BEEN GRANTED BY THE CITY.

STANDARD WATER SERVICE CONNECTION
5/8", 3/4", 1-1/2", AND 2" METERS



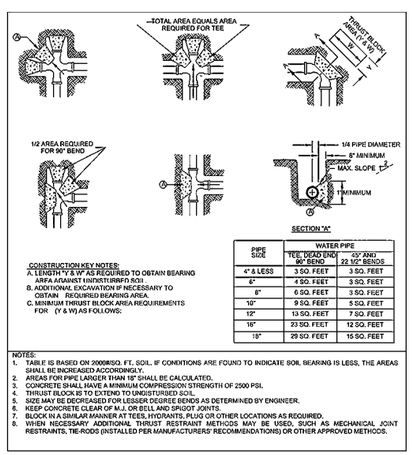
NOTES:
1. All water systems must be designed and constructed in accordance with the City's Standards, Specifications, and Design Criteria and applicable design criteria of the Texas Commission on Environmental Quality.
2. Block Gate Valves with Compression Joint Fittings on 8" and larger lines.
3. Place 1/2" expansion joint material around water pipe where it passes through concrete vault.
4. Valves 16" or larger shall have spur gearing with grease case.
5. Larger diameter R.C.P. may be required dependent upon manufacturer's standard size for gate valve.
6. Provide corporation with copper riser and curb stop at a maximum of 12" from each end of gate valve. Corporation and curb stop sizes shall be 1". Extend riser to within 24" of top of manhole.
7. Valves, bypass, corporation stop and piping shall be designed to operate at the maximum pressures as described in the specifications.
8. The developer shall install valves at the intersections of all main waterlines and shall install inline valves at approximately one thousand (1,000) foot intervals.

STANDARD GATE VALVE AND VAULT INSTALLATION
14 INCH AND SMALLER



NOTES:
(1) Hydrants shall be shop coated with a suitable primer and finish painted to City of Huntsville specifications. Bonnet, pumper nozzle and connection caps are to be painted red on 6" mains, orange on 8" mains and green on 10" and larger mains, barrel to be silver. Below ground line to and including the inlet shoe, the outside of the barrel and shoe shall be coated with a coal-tar enamel or asphalt base bituminous coating material not less than one (1) mil thickness.
(2) Fire hydrants in open ditch roadways shall be 3-ft. off R.O.W..
(3) Mechanical joints and/or elcen clamps are to be rodded together using 5/8" all thread (See W-12).

FLUSH VALVE ASSEMBLY
SCALE: NTS

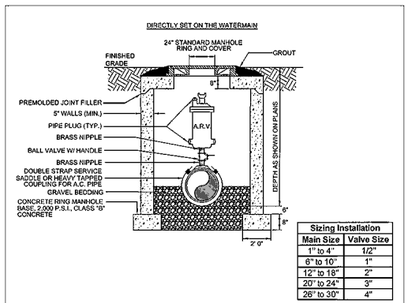


CONSTRUCTION KEY NOTES:
A. LENGTH "X" & "Y" AS REQUIRED TO OBTAIN BEARING AREA AGAINST UNDISTURBED SOIL.
B. ADDITIONAL EXCAVATION IF NECESSARY TO OBTAIN REQUIRED BEARING AREA.
C. MINIMUM THRUST BLOCK AREA REQUIREMENTS FOR (Y & W) AS FOLLOWS:

PIPE SIZE	WATER PIPE TEE, DEAD END, 90° BEND	WATER PIPE 45° AND 22 1/2° BENDS
4" & LESS	3 SQ. FEET	3 SQ. FEET
6"	4 SQ. FEET	3 SQ. FEET
8"	6 SQ. FEET	3 SQ. FEET
10"	9 SQ. FEET	5 SQ. FEET
12"	13 SQ. FEET	7 SQ. FEET
16"	23 SQ. FEET	12 SQ. FEET
18"	29 SQ. FEET	15 SQ. FEET

NOTES:
1. TABLE IS BASED ON 2000#/SQ. FT. SOIL. IF CONDITIONS ARE FOUND TO INDICATE SOIL BEARING IS LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
2. AREAS FOR PIPE LARGER THAN 18" SHALL BE CALCULATED.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 2500 PSI.
4. THRUST BLOCK IS TO EXTEND TO UNDISTURBED SOIL.
5. SIZE MAY BE DECREASED FOR LESSER DEGREE BENDS AS DETERMINED BY ENGINEER.
6. KEEP CONCRETE CLEAR OF M.J. OR BELL AND SPIGOT JOINTS.
7. BLOCK IN A SIMILAR MANNER AT TEES, HYDRANTS, PLUG OR OTHER LOCATIONS AS REQUIRED.
8. WHEN NECESSARY ADDITIONAL THRUST RESTRAINT METHODS MAY BE USED, SUCH AS MECHANICAL JOINT RESTRAINTS, TIE-RODS (INSTALLED PER MANUFACTURERS' RECOMMENDATIONS) OR OTHER APPROVED METHODS.

STANDARD CONCRETE THRUST BLOCK



Sizing Installation	
Main Size	Valve Size
1" to 4"	1/2"
6" to 10"	1"
12" to 18"	2"
20" to 24"	3"
26" to 30"	4"

NOTES:
1. ANY GRADE RINGS REQUIRED SHALL BE SET AS SHOWN ON STANDARD SANITARY SEWER MANHOLE DRAWING.
2. CHANGE PIPE AND FITTINGS ACCORDINGLY FOR OTHER VALVE SIZES AND TYPES. VALVE SIZES TO BE DETERMINED BY THE ENGINEER AND APPROVED BY THE CITY OF HUNTSVILLE PRIOR TO INSTALLATION.
3. IF OFFSET IS GREATER THAN 6', 2" PE TUBING MUST BE USED. IF OFFSET IS LESS THAN 6 BRASS PIPE MUST BE USED (NO COUPLINGS).

STANDARD AIR/VACUUM RELEASE VALVE
SET ON WATERMAIN

REV	DATE
COMMENT	
REV	DATE
COMMENT	

BRETT WYANT
118933
LICENSED
PROFESSIONAL ENGINEER
5/7/2021

CONSTRUCTION DETAILS AND NOTES

DOS AQUAS WATER SYSTEM

SPEAR POINT ENGINEERING, LLC
TBPE Firm No. 18904
604 W. WORSHAM STE A
WILLIS,TX 77378

PREPARED FOR:
DOS AQUAS LLC
455 FM 2296
HUNTSVILLE, TX 77340
(936)295-4809

PROJECT NUMBER
1100

FILE NAME:

SHEET: 7 OF: 7

Attachment-B

TCEQ Dos Aguas Water Distribution

System Approval Letter

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 3, 2021

Mr. Brett Wyant, P.E.
Spear Point Engineering, LLC
604 West Worsham Street, Suite 100
Willis, TX 77378

Re: Dos Aguas - Public Water System ID No. 1700917
Proposed Distribution System – Republic Grand Ranch and Deer Forest Deveopment
Engineer Contact Telephone: (956) 245-2547
Plan Review Log No. P-04262021-179
Montgomery County, Texas

CN605857093; RN111188272

Dear Mr. Wyant:

On April 26, 2021, the Texas Commission on Environmental Quality (TCEQ) received planning material with your letter dated April 26, 2021 for the proposed distribution system - Republic Grand Ranch and Deer Forest Deveopment. Based on our review of the information submitted, the project generally meets the minimum requirements of Title 30 Texas Administrative Code (TAC) Chapter 290 – Rules and Regulations for Public Water Systems and is **conditionally approved for construction** if the project plans and specifications meet the following requirement(s):

Dos Aguas (PWS 1700917) does not have adequate plant capacity approved by the TCEQ for the number of connections proposed in the submitted distribution systems. Dos Aguas must increase the approved water treatment plant capacity in accordance with **§290.45** before these lots are developed in order to meet capacity requirements.

The submittal consisted of 7 sheets of engineering drawings and technical specifications. The approved project consists of:

- 9,312 linear feet of 4-inch, American Society for Testing Materials (ASTM) Standard D2241, standard dimension ratio (SDR) 26, polyvinyl chloride (PVC) pipe;
- 13,180 linear feet of 6-inch, ASTM Standard D2241, SDR 26, PVC pipe;
- 201,240 linear feet of 8-inch, ASTM Standard D2241, SDR 26, PVC pipe;
- Service Lines: 1-inch, ASTM Standard D1248, SDR 9, polyethylene; and
- All associated valves, fittings, and appurtenances.

This approval is for the construction of the above listed items only. Any wastewater components contained in this design were not considered. The authorization provided in this letter does not relieve a Public Water System from the need to comply with other applicable state and federal regulations.

The Dos Aguas public water supply system provides water treatment.

The project is located at the intersection of Tanyard Road and Farm-to-Market Road 1097 in Montgomery County, Texas.

An appointed engineer must notify the TCEQ's Region 12 Office in Houston at (713) 767-3500 when construction will start. Please keep in mind that upon completion of the water works project, the engineer or owner will notify the commission's Water Supply Division, in writing, as to its completion and attest to the fact that the completed work is substantially in accordance with the plans and change orders on file with the commission as required in 30 TAC §290.39(h)(3).

Please refer to the Plan Review Team's Log No. **P-04262021-179** in all correspondence for this project.

Please complete a copy of the most current Public Water System Plan Review Submittal form for any future submittals to TCEQ. Every blank on the form must be completed to minimize any delays in the review of your project. The document is available on TCEQ's website at the address shown below. You can also download the most current plan submittal checklists and forms from the same address.

https://www.tceq.texas.gov/drinkingwater/udpubs.html

For future reference, you can review part of the Plan Review Team's database to see if we have received your project. This is available on TCEQ's website at the following address:

https://www.tceq.texas.gov/drinkingwater/planrev.html/#status

You can download the latest revision of 30 TAC Chapter 290 – Rules and Regulations for Public Water Systems from this site.

If you have any questions concerning this letter or need further assistance, please contact Mr. Franklin Adams at (512) 239-4648 or by email at Franklin.Adams@Tceq.Texas.Gov. If you are unable to contact Mr. Adams, please contact another member of the Plan Review Team at (512) 239-4691 or by correspondence at the following address:

Plan Review Team, MC-159
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Sincerely,

Craig A. Stowell, P.E.
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

Vera Poe, P.E., Team Leader
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

VP/CAS/fa/av

cc: Dos Aguas, Attn: Mr. Scott Rohn, 455 Farm-to-Market Road 2296, Huntsville, TX 77340-2424

bcc: TCEQ Central Records PWS File 1700917 (P-04262021-179/Dos Aguas)
TCEQ Region No. 12 Office - Houston
TCEQ PWSINVEN, MC-155

Attachment-C

TCEQ Dos Aguas Water Plant 1 & 2

Approval Letters

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 25, 2021

Mr. Michael W. Mathena, P.E.
Spear Point Engineering, LLC.
204 West Montgomery Street
Willis, TX 77378

Re: Dos Aguas - Public Water System ID No. 1700917
Proposed Well and Water Plant No. 1
Engineer Contact Telephone: (956) 245-2547
Plan Review Log No. P-01292021-184
Montgomery County, Texas

CN: 605857093; RN: 111188272

Dear Mr. Mathena:

On January 29, 2021, the Texas Commission of Environmental Quality (TCEQ) received planning material with your email dated January 29, 2021 for the proposed well and Water Plant No. 1. Based on our review of the information submitted, the project generally meets the minimum requirements of Title 30 Texas Administrative Code (TAC) Chapter 290 – Rules and Regulations for Public Water Systems and is **conditionally approved for construction** if the project plans and specifications meet the following requirement(s):

Corrosive indices will be used to calculate corrosivity of the water from new source(s). Corrosive or aggressive water could result in aesthetic problems, increased levels of toxic metals, and deterioration of household plumbing and fixtures. **If the water appears to be corrosive**, the system will be required to conduct a study and submit an engineering report that addresses corrosivity issues or may choose to install corrosion control treatment **before use may be granted**. All changes in treatment require submittal of plans and specifications for approval by TCEQ.

Texas Water Code Section 36.0015 allows for the creation of groundwater conservation districts (GCDs) as the preferred method of groundwater management. GCDs manage groundwater in many counties and are authorized to regulate production and spacing of water wells. **Public water systems drilling wells within an existing GCD are responsible for meeting the GCD's requirements.** The authorization provided in this letter does not affect GCD authority to manage groundwater or issue permits.

The design engineer or water system representative is required to notify the Plan Review Team in writing by fax at (512) 239-6972 or by emailing Craig.Stowell@Tceq.Texas.Gov and cc: vera.poe@tceq.texas.gov at least 48 hours before the well casing pressure cementing begins. If pressure cementing is to begin on Monday, then they must give notification on the preceding Thursday. If pressure cementing is to begin on Tuesday, then they must give notification on the preceding Friday.

The TCEQ does not approve this well for use as a public water supply at this time. We have enclosed a copy of the "Public Well Completion Data Checklist for Approval to Use (Step 2)". We provide this checklist to help you in obtaining approval to use this well.

The submittal consisted of 12 sheets of engineering drawings, technical specifications and an engineering summary. The proposed project consists of:

- One (1) public water supply well drilled to 905 feet with 540 linear feet (lf) of 10-inch outside diameter (od) steel casing and pressure-cemented 540 lf;
- 175 lf of 6-inch od stainless steel screen, 165 lf of 6-inch od blank liner, with underream approximately 400 lf gravel pack;
- The well is rated for 175 gallons per minute (gpm) yield with a 25 horsepower, 4-inch, submersible pump set at 350 feet deep. The design capacity of the pump is 200 gpm at 180 feet total dynamic head;
- Three (3) 200 gpm high service pumps;
- One (1) 35,000-gallon American Water Works Association Standard D103, galvanized factory- bolted steel tank;
- One (1) 3,000-gallon, American Society of Mechanical Engineers Section VIII, Division 1, hydropneumatic pressure tank;
- One (1) Gas chlorination system including two 150lb gas cylinders, scales, vacuum feed regulators, and ejectors with associated piping, valves and controls;
- Various valves, piping, fittings, and appurtenances;
- Intrude resistant fence; and,
- All weather access road.

This approval is for the construction of the above listed items only. Any wastewater components contained in this design were not considered. The authorization provided in this letter does not relieve a Public Water System from the need to comply with other applicable state and federal regulations.

The Dos Aguas public water system provides water treatment.

The project is located 1-mile south of the intersection of Farm-to-Market Road 1097 and Carroll Lane in Montgomery County, Texas.

An appointed engineer must notify the TCEQ's Region 12 Office in Houston at (713) 767-3500 when construction will start. Please keep in mind that upon completion of the water works project, the engineer or owner will notify the commission's Water Supply Division, in writing, as to its completion and attest to the fact that the completed work is substantially in accordance with the plans and change orders on file with the commission as required in 30 TAC §290.39(h)(3).

Please refer to the Plan Review Team's Log No. **P-01292021-184** in all correspondence for this project.

Please complete a copy of the most current Public Water System Plan Review Submittal form for any future submittals to TCEQ. Every blank on the form must be completed to minimize any delays in the review of your project. The document is available on TCEQ's website at the address shown below. You can also download the most current plan submittal checklists and forms from the same address.

Please complete a copy of the most current Public Water System Plan Review Submittal form for any future submittals to TCEQ. Every blank on the form must be completed to minimize any delays in the review of your project. The document is available on TCEQ's website at the address shown below. You can also download the most current plan submittal checklists and forms from the same address.

https://www.tceq.texas.gov/drinkingwater/udpubs.html

For future reference, you can review part of the Plan Review Team's database to see if we have received your project. This is available on TCEQ's website at the following address:

https://www.tceq.texas.gov/drinkingwater/planrev.html/#status

You can download the latest revision of 30 TAC Chapter 290 – Rules and Regulations for Public Water Systems from this site.

If you have any questions concerning this letter or need further assistance, please contact Mr. Craig A. Stowell, P.E. at (512) 239-4633 or by email at craig.stowell@tceq.texas.gov or by correspondence at the following address:

Plan Review Team, MC-159
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Sincerely,

Craig A. Stowell, P.E.
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

Vera Poe, P.E., Team Leader
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

VP/CAS/av

Enclosure: Public Well Completion Data Checklist for Approval to Use (Step 2)

cc: Dos Aguas, Attn: Mr. Scott Rohe, President, 455 Farm-to-Market Road 2296, Huntsville, TX 77340

bcc: TCEQ Central Records PWS File 1700917 (P-01292021-184/Dos Aguas)
TCEQ Region No. 12 Office - Houston
TCEQ PWSINVEN, MC-155

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 25, 2021

Mr. Michael W. Mathena, P.E.
Spear Point Engineering, LLC.
204 West Montgomery Street
Willis, TX 77378

Re: Dos Aguas - Public Water System ID No. 1700917
Proposed Well and Water Plant No. 2
Engineer Contact Telephone: (956) 245-2547
Plan Review Log No. P-01292021-185
Montgomery County, Texas

CN: 605857093; RN: 111188272

Dear Mr. Mathena:

On January 29, 2021, the Texas Commission of Environmental Quality (TCEQ) received planning material, with your email dated January 29, 2021, for the proposed well and Water Plant No. 2. Based on our review of the information submitted, the project generally meets the minimum requirements of Title 30 Texas Administrative Code (TAC) Chapter 290 – Rules and Regulations for Public Water Systems and is **conditionally approved for construction** if the project plans and specifications meet the following requirement(s):

Corrosive indices will be used to calculate corrosivity of the water from new source(s). Corrosive or aggressive water could result in aesthetic problems, increased levels of toxic metals, and deterioration of household plumbing and fixtures. **If the water appears to be corrosive**, the system will be required to conduct a study and submit an engineering report that addresses corrosivity issues or may choose to install corrosion control treatment **before use may be granted**. All changes in treatment require submittal of plans and specifications for approval by TCEQ.

Texas Water Code Section 36.0015 allows for the creation of groundwater conservation districts (GCDs) as the preferred method of groundwater management. GCDs manage groundwater in many counties and are authorized to regulate production and spacing of water wells. **Public water systems drilling wells within an existing GCD are responsible for meeting the GCD's requirements.** The authorization provided in this letter does not affect GCD authority to manage groundwater or issue permits.

The design engineer or water system representative is required to notify the Plan Review Team in writing by fax at (512) 239-6972 or by emailing Craig.Stowell@Tceq.Texas.Gov and cc: vera.poe@tceq.texas.gov at least 48 hours before the well casing pressure cementing begins. If pressure cementing is to begin on Monday, then they must give notification on the preceding Thursday. If pressure cementing is to begin on Tuesday, then they must give notification on the preceding Friday.

The TCEQ does not approve this well for use as a public water supply at this time. We have enclosed a copy of the "Public Well Completion Data Checklist for Approval to Use (Step 2)". We provide this checklist to help you in obtaining approval to use this well.

The submittal consisted of 12 sheets of engineering drawings, technical specifications and an engineering summary. The proposed project consists of:

- One (1) public water supply well drilled to 944 feet with 589 linear feet (lf) of 10-inch outside diameter (od) steel casing and pressure-cemented 589 lf;
- 175 lf of 6-inch od stainless steel screen, 165 lf of 6-inch od blank liner, with underream approximately 400 lf gravel pack;
- The well is rated for 175 gallons per minute (gpm) yield with a 25 horsepower, 4-inch, submersible pump set at 399 feet deep. The design capacity of the pump is 175 gpm at 38 fee3t total dynamic head;
- Three (3) 200 gpm high service pumps;
- One (1) 35,000-gallon American Water Works Association Standard D103, galvanized factory- bolted steel tank;
- One (1) 3,000-gallon, American Society of Mechanical Engineers Section VIII, Division 1, hydropneumatic pressure tank;
- One (1) Gas chlorination system including two 150lb gas cylinders, scales, vacuum feed regulators, and ejectors with associated piping, valves and controls;
- Various valves, piping, fittings, and appurtenances;
- Intrude resistant fence; and,
- All weather access road.

This approval is for the construction of the above listed items only. Any wastewater components contained in this design were not considered. The authorization provided in this letter does not relieve a Public Water System from the need to comply with other applicable state and federal regulations.

The Dos Aguas public water system provides water treatment.

The project is located ½ mile south of the intersection of Farm-to-Market Road 1097 and Texas State Highway 150 in Montgomery County, Texas.

An appointed engineer must notify the TCEQ's Region 12 Office in Houston at (713) 767-3500 when construction will start. Please keep in mind that upon completion of the water works project, the engineer or owner will notify the commission's Water Supply Division, in writing, as to its completion and attest to the fact that the completed work is substantially in accordance with the plans and change orders on file with the commission as required in 30 TAC §290.39(h)(3).

Please refer to the Plan Review Team's Log No. **P-01292021-185** in all correspondence for this project.

https://www.tceq.texas.gov/drinkingwater/udpubs.html

For future reference, you can review part of the Plan Review Team's database to see if we have received your project. This is available on TCEQ's website at the following address:

https://www.tceq.texas.gov/drinkingwater/planrev.html/#status

You can download the latest revision of 30 TAC Chapter 290 – Rules and Regulations for Public Water Systems from this site.

If you have any questions concerning this letter or need further assistance, please contact Mr. Craig A. Stowell, P.E. at (512) 239-4633 or by email at craig.stowell@tceq.texas.gov or by correspondence at the following address:

Plan Review Team, MC-159
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Sincerely,

Craig A. Stowell, P.E.
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

Vera Poe, P.E., Team Leader
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

VP/CAS/av

Enclosure: Public Well Completion Data Checklist for Approval to Use (Step 2)

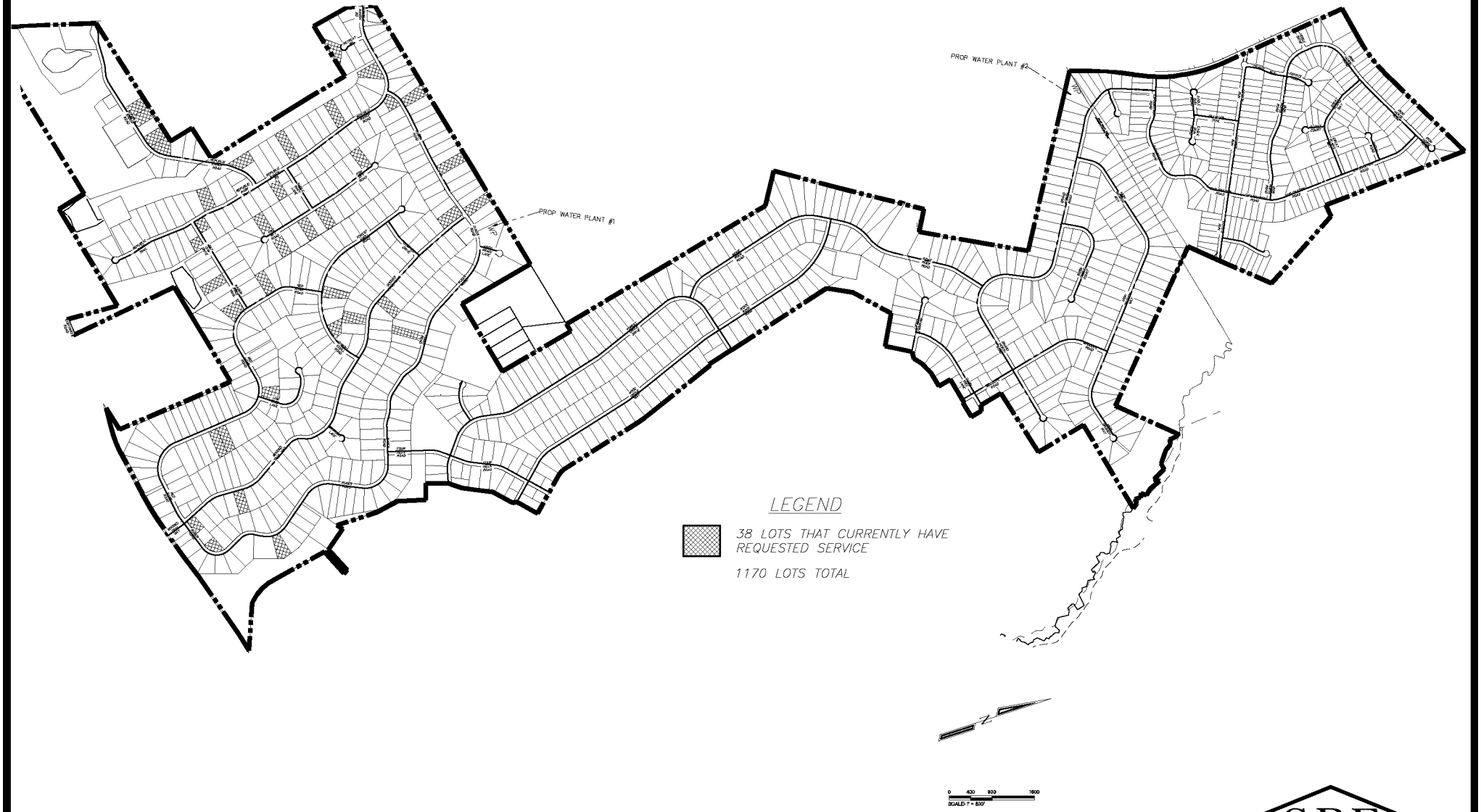
cc: Dos Aguas, Attn: Mr. Scott Rohe, President, 455 Farm-to-Market Road 2296, Huntsville, TX 77340

bcc: TCEQ Central Records PWS File 1700917 (P-01292021-185/Dos Aguas)
TCEQ Region No. 12 Office - Houston
TCEQ PWSINVEN, MC-155

Attachment B

Map of Requested Service Area

Overlayed with Approved Subdivision Platting and Approved Distribution System



OVERALL EXHIBIT

PROJECT #:1100

DATE: 5-25-2022

SPEAR POINT ENGINEERING, LLC
TBPE Firm No. 18904
604 W. WORSHAM ST.
WILLIS, TX 77378
936-256-2626