Administrative Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
3. Application Materials

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
'DOMESTIC' **WASTEWATER/STORMWATER**

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Double Diamond Properties Construction Company (CN603168436) proposes to operate Rock Creek West (RN111923157), a wastewater treatment facility. The facility will be located at 4933 CR 106, in Whitesboro, Cooke County, Texas 76273. New application to discharge process wastewater and stormwater on an intermittent and flow-variable basis.

Discharges from the facility are expected to contain stormwater discharge. Stormwater and process wastewater will be treated by no personal on site.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT

PROPOSED PERMIT NO. WQ0016728001

APPLICATION. Double Diamond Properties Construction Co., 12720 Hillcrest Road, Suite 400, Dallas, Texas 75230, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0016728001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 25,000 gallons per day via subsurface soils absorption on 0.329 acres of land. The domestic wastewater treatment facility and disposal area will be located at 4933 County Road 106, near the city of Whitesboro, in Cooke County, Texas 76273. TCEQ received this application on February 14, 2025. The permit application will be available for viewing and copying at Cooke County Library, 200 South Weaver Street, Gainesville, in Cooke County, Texas, prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.97511,33.8222&level=18

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. **Notice of the Application and Preliminary Decision will be published and mailed to those who are on the county-wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.**

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments, and the**

Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision and for requesting a contested case hearing. A contested case hearing is a legal proceeding similar to a civil trial in state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.**

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county. If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at www.tceq.texas.gov/goto/cid. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at **https://www14.tceq.texas.gov/epic/eComment/**, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll

Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Double Diamond Properties Construction Co. at the address stated above or by calling Mr. Ron Cannon, Construction Manager, at 940-634-9966.

Issuance Date: May 2, 2025

Allison Engineering Group
Planning Communities - Designing the Systems That Serve Them

2415 N. Elm Street
Denton, TX 76201
Office: 940.380.9453
Fax: 940.380.9431
www.ae-grp.com
TBPE Firm #: 7898

Mr. Louis C. Herrin III, P.E.
Executive Director
Wastewater Permits Section
TCEQ – MC 148
P.O. Box 13087
Austin, Texas 78711-3087

December 11 , 2024

RE: Chapter 217.6 Summary Transmittal Letter
Rock Creek West new Wastewater Treatment Permit request
Cooke County, Texas

Dear Mr. Herrin:

Rock Creek West is a proposed extension of near-by Rock Creek Resort, where residential lot owners will be members of the Rock Creek Resort and will be able to utilize all of the existing amenities, (golf course, marina, etc.) along with the proposed amenities which will be at the Rock Creek West location. This initial application will be for a temporary subsurface wastewater treatment facility. We anticipate that discharge permits, CCCN requests and collection system submissions will follow as we move forward with the project and get feedback from our official submissions to Cooke County for this development.

1. **The name and address of the engineering firm and TBPE firm number**

   Allison Engineering Group
   2415 N. Elm Street
   Denton, TX 76201
   TBPE Firm #:7898

2. **The name, phone number, and facsimile number of the design engineer**

   Gregory K. Edwards, P. E. #48294
   Phone: 940.380.9453 (ext. 106)
   Mobile: (940) 391-8487
   Facsimile: 940.380.9431

3. **The county(s) in which the project will be located with an identifying name for the project**

   County: Cooke County, Texas
   Project Names: Rock Creek West Temporary treatment facility.

4. **The name of the entity which proposes to own, operate, and maintain the project through its design life**

   Owner: Double Diamond Properties Construction Company

5. **The permit name and permit number of the relevant wastewater treatment facility**

   Pending Approval

6. **A statement verifying that the plans and specifications are in substantial compliance with all the requirements of this chapter and which states that any deviations from the requirements are based on the best professional judgment of the registered professional engineer who prepared the project plans and specifications and final engineering report**

   The proposed manner of service is a public subsurface gravity septic system designed in accordance with Title 30, TAC Chapter 285, generally approved for private sewer facilities.

7. **A brief description of the project scope which includes the specifics of the project, a description of the deviations from the requirements of this chapter, including the use of nonconforming or innovative technology, and an explanation of the reasons for such deviations.**

   This initial system will consist of septic tanks, for solids removal and initial treatment discharging into a drain field. The system will treat up to 5,000 gallons per day of effluent. As we have experience in numerous of Double Diamond Resorts, the occupancy rate is very slow and detention time within the collection system and lift stations, generally allow the effluent to go septic which is not conducive to the ultimate Aerobic Package Plant operations. Once we have sufficient occupancy within the development to minimize detention time within the collection system, we will propose to close this facility in favor of the future aerobic treatment facility.

Attached to this Summary letter is the Engineering Report and Technical Specifications for the proposed improvements which should document compliance with the TCEQ Final Engineering Design Report. Please call me at (940) 391-8487 if you have any questions.

Sincerely,

Greg Edwards, P.E.
GEES, Inc

CC: Dallas/ Fort Worth Regional Office
Regional Director: Tony Walker
2309 Gravel Drive
Fort Worth, Texas 76118-6951

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Double Diamond Properties Construction Company

PERMIT NUMBER (If new, leave blank): WQ00

Indicate if each of the following items is included in your application.

	Y	N		Y	N
Administrative Report 1.0	☒	☐	Original USGS Map	☒	☐
Administrative Report 1.1	☒	☐	Affected Landowners Map	☒	☐
SPIF	☐	☒	Landowner Disk or Labels	☒	☐
Core Data Form	☒	☐	Buffer Zone Map	☒	☐
Public Involvement Plan Form	☒	☐	Flow Diagram	☒	☐
Technical Report 1.0	☒	☐	Site Drawing	☒	☐
Technical Report 1.1	☒	☐	Original Photographs	☒	☐
Worksheet 2.0	☐	☒	Design Calculations	☒	☐
Worksheet 2.1	☐	☒	Solids Management Plan	☐	☒
Worksheet 3.0	☒	☐	Water Balance	☐	☒
Worksheet 3.1	☐	☒			
Worksheet 3.2	☒	☐			
Worksheet 3.3	☐	☒			
Worksheet 4.0	☐	☒			
Worksheet 5.0	☐	☒			
Worksheet 6.0	☐	☒			
Worksheet 7.0	☐	☒			

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

For any questions about this form, please contact the Applications Review and Processing Team at 512-239-4671.

Section 1. Application Fees (Instructions Page 26)

Indicate the amount submitted for the application fee (check only one).

Flow	New/Major Amendment	Renewal
<0.05 MGD	$350.00 ☒	$315.00 ☐
≥0.05 but <0.10 MGD	$550.00 ☐	$515.00 ☐
≥0.10 but <0.25 MGD	$850.00 ☐	$815.00 ☐
≥0.25 but <0.50 MGD	$1,250.00 ☐	$1,215.00 ☐
≥0.50 but <1.0 MGD	$1,650.00 ☐	$1,615.00 ☐
≥1.0 MGD	$2,050.00 ☐	$2,015.00 ☐

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: 13603

Check/Money Order Amount: $350.00

Name Printed on Check: TCEQ-written by Double Diamond Properties Construction Company

EPAY — Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

a. Check the box next to the appropriate authorization type.

☐ Publicly-Owned Domestic Wastewater

☒ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

b. Check the box next to the appropriate facility status.

☐ Active ☒ Inactive

c. Check the box next to the appropriate permit type.

- ☐ TPDES Permit
- ☒ TLAP
- ☐ TPDES Permit with TLAP component
- ☐ Subsurface Area Drip Dispersal System (SADDS)

d. Check the box next to the appropriate application type

- ☒ New
- ☐ Major Amendment *with* Renewal
- ☐ Major Amendment *without* Renewal
- ☐ Renewal without changes
- ☐ Minor Amendment *with* Renewal
- ☐ Minor Amendment *without* Renewal
- ☐ Minor Modification of permit

e. For amendments or modifications, describe the proposed changes: N/A

f. For existing permits:

Permit Number: WQ00 N/A

EPA I.D. (TPDES only): TX N/A

Expiration Date: N/A

Section 3. Facility Owner (Applicant) and Co-Applicant Information (Instructions Page 26)

A. The owner of the facility must apply for the permit.

What is the Legal Name of the entity (applicant) applying for this permit?

Double Diamond Properties Construction Company

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at http://www15.tceq.texas.gov/crpub/

CN: 603168436

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in *30 TAC § 305.44*.

Prefix: Mr. Last Name, First Name: Gracy, Randy

Title: President Credential: N/A

B. Co-applicant information. Complete this section only if another person or entity is required to apply as a co-permittee.

What is the Legal Name of the co-applicant applying for this permit?

N/A

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the legal documents forming the entity.)

If the co-applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at: http://www15.tceq.texas.gov/crpub/

CN: N/A

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in *30 TAC § 305.44*.

Prefix: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

Provide a brief description of the need for a co-permittee: N/A

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. See Appendix {Core Data Form}

Section 4. Application Contact Information (Instructions Page 27)

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

A. Prefix: Mr. Last Name, First Name: Edwards, Greg

Title: Engineer Credential: P.E. 48294

Organization Name: Allison Engineering

Mailing Address: 2415 N. Elm Street City, State, Zip Code: Denton, TX 76201

Phone No.: 940-380-9453 ext 100 E-mail Address: gedwards@ae-grp.com

Check one or both: ☐ Administrative Contact ☒ Technical Contact

B. Prefix: Ms. Last Name, First Name: Rotramel, Christie

Title: Admin Assistant Credential: N/A

Organization Name: Double Diamond Properties Construction Company

Mailing Address: 12720 Hillcrest Rd., Suite 400 City, State, Zip Code: Dallas, TX 75230

Phone No.: 214-706-7857 E-mail Address: crotramel@ddresorts.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

Provide the names and contact information for two individuals that can be contacted throughout the permit term.

A. Prefix: Mr. Last Name, First Name: Gracy, Randy

Title: President Credential: N/A

Organization Name: Double Diamond Properties Construction Co.

Mailing Address: 12720 Hillcrest Rd., Suite 400 City, State, Zip Code: Dallas, TX 75230

Phone No.: 214-706-9801 E-mail Address: rgracy@ddresorts.com

B. Prefix: Mr. Last Name, First Name: Ron Cannon

Title: Construction Manager Credential: N/A

Organization Name: Double Diamond Properties Construction Company

Mailing Address: 12720 Hillcrest Rd., Suite 400 City, State, Zip Code: Dallas, TX 75230

Phone No.: 940-634-9966 E-mail Address: rcannon@rockcreekontexoma.com

Section 6. Billing Contact Information (Instructions Page 27)

The permittee is responsible for paying the annual fee. The annual fee will be assessed to permits ***in effect on September 1 of each year***. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (using form TCEQ-20029).

Prefix: Mr. Last Name, First Name: Gracy, Randy

Title: President Credential: N/A

Organization Name: Double Diamond Properties Construction Company

Mailing Address: 12720 Hillcrest Rd., Suite 400 City, State, Zip Code: Dallas, TX 75230

Phone No.: 214-706-9801 E-mail Address: rgracy@ddresorts.com

Section 7. DMR/MER Contact Information (Instructions Page 27)

Provide the name and complete mailing address of the person delegated to receive and submit Discharge Monitoring Reports (DMR) (EPA 3320-1) or maintain Monthly Effluent Reports (MER).

Prefix: Mr. Last Name, First Name: Davis, Jerry

Title: Operator Credential: N/A

Organization Name: Davis Backflow & Construction LLC

Mailing Address: 717 N. Preston Avenue City, State, Zip Code: Van Alstyne, TX 75495

Phone No.: 903-357-1978 E-mail Address: jdavisbackflow@gmail.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Christie Rotramel

Title: Admin Assistant Credential: N/A

Organization Name: Double Diamond Properties Construction Company

Mailing Address: 12720 Hillcrest rd., Suite 400 City, State, Zip Code: Dallas, TX 75230

Phone No.: 214-706-7857 E-mail Address: crotramel@ddresorts.com

B. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package

Indicate by a check mark the preferred method for receiving the first notice and instructions:

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: N/A Last Name, First Name: Cannon, Ron

Title: Construction Manager Credential: N/A

Organization Name: Double Diamond Properties Construction Company

Mailing Address: 12720 Hillcrest Rd., Suite 400 City, State, Zip Code: Dallas, TX 75230

Phone No.: 940-634-9966 E-mail Address: rcannon@rockcreekontexoma.com

D. Public Viewing Information

If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.

Location within the building: Cooke County Library

Physical Address of Building: 200 W. Weaver St.,

City: Gainesville County: TX

Contact (Last Name, First Name): R. Rhoades

Phone No.: 940-668-5530 Ext.: N/A

E. Bilingual Notice Requirements

This information **is required** for **new, major amendment, minor amendment or minor modification, and renewal** applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

   ☐ Yes ☒ No

   If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below.

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

   ☐ Yes ☐ No

3. Do the students at these schools attend a bilingual education program at another location?

☐ Yes ☐ No

4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?

   ☐ Yes ☐ No

5. If the answer is **yes** to **question 1, 2, 3, or 4**, public notices in an alternative language are required. Which language is required by the bilingual program? Click to enter text.

F. Plain Language Summary Template

Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment.

Attachment: Appendix {Plain Language Summary Template}

G. Public Involvement Plan Form

Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a **new permit or major amendment to a permit** and include as an attachment.

Attachment: Appendix {Public Involvement Plan Form}

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 29)

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 111923157

Search the TCEQ's Central Registry at http://www15.tceq.texas.gov/crpub/ to determine if the site is currently regulated by TCEQ.

B. Name of project or site (the name known by the community where located):

Rock Creek West

C. Owner of treatment facility: Double Diamond Properties Construction Company

Ownership of Facility: ☐ Public ☒ Private ☐ Both ☐ Federal

D. Owner of land where treatment facility is or will be:

Prefix: Mr. Last Name, First Name: Randy Gracy

Title: VP President Credential: N/A

Organization Name: Double Diamond Properties Construction Company

Mailing Address: 12720 Hillcrest Rd., Suite 400 City, State, Zip Code: Dallas, TX 75230

Phone No.: 214-706-9801 E-mail Address: rgracy@ddresorts.com

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: Warranty Deed

E. Owner of effluent disposal site:

Prefix: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

Organization Name: N/A

Mailing Address: N/A City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: N/A

F. Owner sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant)::

Prefix: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

Organization Name: N/A

Mailing Address: N/A City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 31)

A. Is the wastewater treatment facility location in the existing permit accurate?

☐ Yes ☒ No

If **no**, **or a new permit application**, please give an accurate description:

Texas Land Application Permit (TLAP) new permit application

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☐ Yes ☒ No

If **no**, **or a new or amendment permit application**, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

Texas Land Application Permit (TLAP) new permit application

City nearest the outfall(s): N/A

County in which the outfalls(s) is/are located: N/A

C. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☐ Yes ☒ No

If **yes**, indicate by a check mark if:

☐ Authorization granted ☐ Authorization pending

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

Attachment: N/A

D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: N/A

Section 11. TLAP Disposal Information (Instructions Page 32)

A. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

☐ Yes ☒ No

If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

Texas Land Application Permit (TLAP) new permit application

B. City nearest the disposal site: N/A

C. County in which the disposal site is located: N/A

D. For **TLAPs**, describe the routing of effluent from the treatment facility to the disposal site:

N/A

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: N/A

Section 12. Miscellaneous Information (Instructions Page 32)

A. Is the facility located on or does the treated effluent cross American Indian Land?

☐ Yes ☒ No

B. If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No ☒ Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.

N/A

C. Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?

☐ Yes ☒ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: N/A

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If **yes**, provide the following information:

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If **yes**, please provide the following information:

Enforcement order number: N/A

Amount past due: N/A

Section 13. Attachments (Instructions Page 33)

Indicate which attachments are included with the Administrative Report. Check all that apply:

☐ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.

☒ Original full-size USGS Topographic Map with the following information:

- Applicant's property boundary
- Treatment facility boundary
- Labeled point of discharge for each discharge point (TPDES only)
- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: Click to enter text.

Section 14. Signature Page (Instructions Page 34)

If co-applicants are necessary, each entity must submit an original, separate signature page.

Permit Number: Click to enter text.

Applicant: Double Diamond Properties Construction Company

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Randy Gracy

Signatory title: President

Signature: Randy Gracy Date: 1-24-25

(Use blue ink)

Subscribed and Sworn to before me by the said Randy Gracy

on this 24th day of January, 20 25.

My commission expires on the 6th day of July, 20 27.

Christie Rotramel

Notary Public

CHRISTIE ROTRAMEL
My Notary ID # 12343225
Expires July 6, 2027

[SEAL]

Dallas

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

- ☒ The applicant's property boundaries
- ☒ The facility site boundaries within the applicant's property boundaries
- ☒ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
- ☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- ☒ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
- ☒ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
- ☒ The property boundaries of all landowners surrounding the effluent disposal site
- ☒ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- ☒ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located

B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.

C. Indicate by a check mark in which format the landowners list is submitted:

☒ USB Drive ☐ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Cooke County Appraisal District

E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?

☐ Yes ☒ No

If **yes**, provide the location and foreseeable impacts and effects this application has on the land(s):

N/A

Section 2. Original Photographs (Instructions Page 38)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided.

☒ At least one original photograph of the new or expanded treatment unit location

☐ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.

☐ At least one photograph of the existing/proposed effluent disposal site

☒ A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 38)

A. Buffer zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following information. The applicant's property line and the buffer zone line may be distinguished by using dashes or symbols and appropriate labels.

- The applicant's property boundary;
- The required buffer zone; and
- Each treatment unit; and
- The distance from each treatment unit to the property boundaries.

B. Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.

☒ Ownership

☐ Restrictive easement

☐ Nuisance odor control

☐ Variance

C. Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?

☐ Yes ☒ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

This form applies to TPDES permit applications only. Complete and attach the Supplemental Permit information Form (SPIF) (TCEQ Form 20971).

Attachment: N/A

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if the mailing the payment.

- Complete items 1 through 5 below.
- Staple the check or money order in the space provided at the bottom of this document.
- **Do Not mail this form with the application form.**
- Do not mail this form to the same address as the application.
- Do not submit a copy of the application with this form as it could cause duplicate permit entries.

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, Texas 78711-3088

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, Texas 78753

Fee Code: WQP **Waste Permit No:** N/A

1. Check or Money Order Number: 13603
2. Check or Money Order Amount: $350.00
3. Date of Check or Money Order: 10/24/24
4. Name on Check or Money Order: TCEQ—Written by Double Diamond Properties Construction Company
5. APPLICATION INFORMATION

   Name of Project or Site: Rock Creek West Temporary Treatment Facility

   Physical Address of Project or Site: 4933 County Road 106, Whitesboro Texas 76207

   If the check is for more than one application, attach a list which includes the name of each Project or Site (RE) and Physical Address, exactly as provided on the application.

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

Complete this attachment if the facility applicant or co-applicant is an individual. Make additional copies of this attachment if both are individuals.

Prefix (Mr., Ms., Miss): N/A

Full legal name (Last Name, First Name, Middle Initial): N/A

Driver's License or State Identification Number: N/A

Date of Birth: N/A

Mailing Address: N/A

City, State, and Zip Code: N/A

Phone Number: N/A Fax Number: N/A

E-mail Address: N/A

CN: N/A

For Commission Use Only:
Customer Number:
Regulated Entity Number:
Permit Number:

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

Below is a list of common deficiencies found during the administrative review of domestic wastewater permit applications. To ensure the timely processing of this application, please review the items below and indicate by checking Yes that each item is complete and in accordance applicable rules at 30 TAC Chapters 21, 281, and 305. If an item is not required this application, indicate by checking N/A where appropriate. Please do not submit the application until the items below have been addressed.

Core Data Form (TCEQ Form No. 10400) ☒ Yes
(Required for all application types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)

Correct and Current Industrial Wastewater Permit Application Forms ☒ Yes
(TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)

Water Quality Permit Payment Submittal Form (Page 19) ☒ Yes
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)

7.5 Minute USGS Quadrangle Topographic Map Attached ☒ Yes
(Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)

Current/Non-Expired, Executed Lease Agreement or Easement ☒ N/A ☐ Yes

Landowners Map ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Things to Know:

- All the items shown on the map must be labeled.
- The applicant's complete property boundaries must be delineated which includes boundaries of contiguous property owned by the applicant.
- The applicant cannot be its own adjacent landowner. You must identify the landowners immediately adjacent to their property, regardless of how far they are from the actual facility.
- If the applicant's property is adjacent to a road, creek, or stream, the landowners on the opposite side must be identified. Although the properties are not adjacent to applicant's property boundary, they are considered potentially affected landowners. If the adjacent road is a divided highway as identified on the USGS topographic map, the applicant does not have to identify the landowners on the opposite side of the highway.

Landowners Cross Reference List ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Landowners Labels or USB Drive attached ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Original signature per 30 TAC § 305.44 – Blue Ink Preferred ☒ Yes
(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached)

Plain Language Summary ☒ Yes

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission *(If other is checked please describe in space provided.)*

☐ New Permit, Registration or Authorization *(Core Data Form should be submitted with the program application.)*

☐ Renewal *(Core Data Form should be submitted with the renewal form)*

☒ Other Update CN & RN information

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 603168436		RN 111973157

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy): 9-17-24

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership

☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* — *If new Customer, enter previous Customer below:*

Double Diamond Properties Const. Company

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
142738600		75-2684578	

11. Type of Customer: ☒ Corporation ☐ Individual ☐ Partnership: ☐ General ☐ Limited

Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees

☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?

☐ Yes ☐ No

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☒ Operator ☐ Owner & Operator ☐ Other:

☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address:	12720 Hillcrest Rd., Suite 400						
	City Dallas	**State** TX	**ZIP** 75230	**ZIP + 4**			

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	rgracy@ddresorts.com

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*
214 706-9570		

( ) -		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☒ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)* Rock Creek West

23. Street Address of the Regulated Entity: *(No PO Boxes)*	4933 CR 106							
	City	Whitesboro	**State**	TX	**ZIP**	76273	**ZIP + 4**	
24. County	Cooke							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:					
26. Nearest City			**State**	**Nearest ZIP Code**	

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4941	1623	221310	237110

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

34. Mailing Address:	12720 Hillcrest Rd., Suite 400							
	City	Dallas	**State**	TX	**ZIP**	75230	**ZIP + 4**	
35. E-Mail Address:	rgracy@ddresorts.com							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(214 706-9870		( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Christie Rotramel	41. Title:	Construction Assistant
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(214-706-7857	( ) -		crotramel@ddresorts.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Double Diamond Properties	Job Title:	Construction Company President
Name *(In Print)*:	Randy Gracy	Phone:	(214-706-9818
Signature:	Randy Gracy	Date:	9-19-24

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☒ New Permit or Registration Application

☐ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☒ Requires public notice,

☐ Considered to have significant public interest, **and**

☐ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

☒ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

No discharge of wastewater proposed, should not generate significant public interest.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☒ Texas Pollutant Discharge Elimination System (TPDES)

- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☒ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Double Diamond Properties Construction Company is seeking to develop 160 acres resort community in Cooke County, TX and public sanitary sewer facilities are not currently available in the immediate area. An on-site wastewater treatment permit is therefore necessary to initiate the development as anticipated.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

(City)

(County)

(Census Tract)
Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

96.5% speak english

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☐ Yes ☒ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☐ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

The following information is required for all renewal, new, and amendment applications.

Section 1. Permitted or Proposed Flows (Instructions Page 43)

A. Existing/Interim I Phase

Design Flow (MGD): 0.0025

2-Hr Peak Flow (MGD): .01

Estimated construction start date: June 2024

Estimated waste disposal start date: June 2025

B. Interim II Phase

Design Flow (MGD): .005

2-Hr Peak Flow (MGD): .02

Estimated construction start date: 2030

Estimated waste disposal start date: 2030

C. Final Phase

Design Flow (MGD): .025

2-Hr Peak Flow (MGD): .1

Estimated construction start date: 2034

Estimated waste disposal start date: 2035

D. Current Operating Phase

Provide the startup date of the facility: June 2025

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

Provide a detailed description of the treatment process. **Include the type of treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and

finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed, a description of *each phase* must be provided**.

Initial phase to be a temporary subsurface disposal system, with tanks and drain fields. As connection increase drain fields will be added to accommodate growth within the system. It is not anticipated that the permanent aerobic package plant will be needed until 2035 or beyond.

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) **of each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Septic Tanks	4	**10' x 5' x6'**
Absorptive Drain Field	1	2,000 x 3' x 3'

C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.

Attachment: See Appendix {Flow Diagram}

Section 3. Site Information and Drawing (Instructions Page 44)

Provide the TPDES discharge outfall latitude and longitude. Enter N/A if not applicable.

- Latitude: N/A
- Longitude: N/A

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

- Latitude: N033° 49' 27.30"
- Longitude: W096° 58' 30.80"

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: See Appendix {Site Drawing}

Provide the name **and** a description of the area served by the treatment facility.

Rock Creek West a planned Resort Community with up to 700 residential /membership lots. Ultimate build out of up to 140 homes in 30 years.

Collection System Information **for wastewater TPDES permits only**: Provide information for each **uniquely owned** collection system, existing and new, served by this facility, including satellite collection systems. **Please see the instructions for a detailed explanation and examples.**

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
N/A	N/A	Choose an item.	N/A
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

Is the application for a renewal of a permit that contains an unbuilt phase or phases?

☐ Yes ☒ No

If yes, does the existing permit contain a phase that has not been constructed **within five years** of being authorized by the TCEQ?

☐ Yes ☒ No

If yes, provide a detailed discussion regarding the continued need for the unbuilt phase. **Failure to provide sufficient justification may result in the Executive Director recommending denial of the unbuilt phase or phases**.

N/A

Section 5. Closure Plans (Instructions Page 45)

Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?

☐ Yes ☒ No

If yes, was a closure plan submitted to the TCEQ?

☐ Yes ☒ No

If yes, provide a brief description of the closure and the date of plan approval.

N/A

Section 6. Permit Specific Requirements (Instructions Page 45)

For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit.

A. Summary transmittal

Have plans and specifications been approved for the existing facilities and each proposed phase?

☐ Yes ☒ No

If yes, provide the date(s) of approval for each phase: Click to enter text.

Provide information, including dates, on any actions taken to meet a *requirement or provision* pertaining to the submission of a summary transmittal letter. **Provide a copy of an approval letter from the TCEQ, if applicable**.

Summary Transmital Letter and Plans attached with this submission. Approval pending.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

Adjacent properties are not in the buffer zone. Proposed Buffer Zone attached with this application. Approval pending.

C. Other actions required by the current permit

Does the *Other Requirements* or *Special Provisions* section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.

☐ Yes ☒ No

If yes, provide information below on the status of any actions taken to meet the conditions of an *Other Requirement* or *Special Provision*.

N/A

D. Grit and grease treatment

1. Acceptance of grit and grease waste

Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?

☐ Yes ☒ No

If No, stop here and continue with Subsection E. Stormwater Management.

2. Grit and grease processing

Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.

Click to enter text.

3. Grit disposal

Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

☐ Yes ☐ No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

Click to enter text.

4. *Grease and decanted liquid disposal*

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.

Describe how the decant and grease are treated and disposed of after grit separation.

Click to enter text.

E. Stormwater management

1. *Applicability*

Does the facility have a design flow of 1.0 MGD or greater in any phase?

☐ Yes ☒ No

Does the facility have an approved pretreatment program, under 40 CFR Part 403?

☐ Yes ☒ No

If no to both of the above, then skip to Subsection F, Other Wastes Received.

2. *MSGP coverage*

Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?

☐ Yes ☐ No

If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

TXR05 Click to enter text. or TXRNE Click to enter text.

If no, do you intend to seek coverage under TXR050000?

☐ Yes ☐ No

3. *Conditional exclusion*

Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?

☐ Yes ☐ No

If yes, please explain below then proceed to Subsection F, Other Wastes Received:

Click to enter text.

4. ***Existing coverage in individual permit***

Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?

☐ Yes ☐ No

If yes, provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.

Click to enter text.

5. ***Zero stormwater discharge***

Do you intend to have no discharge of stormwater via use of evaporation or other means?

☐ Yes ☐ No

If yes, explain below then skip to Subsection F. Other Wastes Received.

Click to enter text.

Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. ***Request for coverage in individual permit***

Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?

☐ Yes ☐ No

If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you

intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

Click to enter text.

Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.
N/A

G. Other wastes received including sludge from other WWTPs and septic waste

1. Acceptance of sludge from other WWTPs

Does or will the facility accept sludge from other treatment plants at the facility site?

☐ Yes ☒ No

If yes, attach sewage sludge solids management plan. See Example 5 of instructions.

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

If yes, does the facility have a Type V processing unit?

☐ Yes ☒ No

If yes, does the unit have a Municipal Solid Waste permit?

☐ Yes ☒ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the septic waste, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

The initial, temporary facilities are to treat septic waste until we have sufficient flows to assure non-septic waste in the ultimate aerobic package treatment facility.

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

3. ***Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)***

Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?

☐ Yes ☒ No

If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

N/A

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)

Is the facility in operation?

☐ Yes ☒ No

If no, this section is not applicable. Proceed to Section 8.

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). **W*ater treatment facilities*** discharging filter backwash water, complete Table 1.0(3). Provide copies of the laboratory results sheets. **These tables are not applicable for a minor amendment without renewal.** See the instructions for guidance.

Note: The sample date must be within 1 year of application submission.

Table1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity ($CaCO_3$)*, mg/l					

*TPDES permits only
†TLAP permits only

Table1.0(3) – Pollutant Analysis for Water Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Double Diamond Properties Construction Company

Facility Operator's License Classification and Level: N/A

Facility Operator's License Number: N/A

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 51)

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☐ Design flow>= 1 MGD
- ☐ Serves >= 10,000 people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user – land application (onsite)
- ☐ Biosolids end user – surface disposal (onsite)
- ☐ Biosolids end user – incinerator (onsite)

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☐ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (>= 2 years)
- ☐ Methane or Biogas Recovery
- ☒ Other Treatment Process: N/A

C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize

all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Choose an item.	Choose an item.	Choose an item.	N/A	Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Click to enter text.

D. Disposal site

Disposal site name: N/A

TCEQ permit or registration number: N/A

County where disposal site is located: N/A

E. Transportation method

Method of transportation (truck, train, pipe, other): N/A

Name of the hauler: N/A

Hauler registration number: N/A

Sludge is transported as a:

Liquid ☐ semi-liquid ☐ semi-solid ☐ solid ☐

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 53)

A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage sludge for beneficial use?

☐ Yes ☒ No

If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?

☐ Yes ☐ No

If yes, is the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)** attached to this permit application (see the instructions for details)?

☐ Yes ☐ No

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

Sludge Composting	☐ Yes	☒ No
Marketing and Distribution of sludge	☐ Yes	☒ No
Sludge Surface Disposal or Sludge Monofill	☐ Yes	☒ No
Temporary storage in sludge lagoons	☐ Yes	☒ No

If yes to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

If yes, complete the remainder of this section. If no, proceed to Section 12.

A. Location information

The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

- Original General Highway (County) Map:

  Attachment: Click to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click to enter text.
- Federal Emergency Management Map:

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:

Click to enter text.

B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in *Section 7 of Technical Report 1.0.*

Nitrate Nitrogen, mg/kg: Click to enter text.

Total Kjeldahl Nitrogen, mg/kg: Click to enter text.

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

Volume and frequency of sludge to the lagoon(s): Click to enter text.

Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.

Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

☐ Yes ☐ No

If yes, describe the liner below. Please note that a liner is required.

Click to enter text.

D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

Click to enter text.

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)

  Attachment: Click to enter text.
- Copy of the closure plan

  Attachment: Click to enter text.
- Copy of deed recordation for the site

  Attachment: Click to enter text.
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click to enter text.
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click to enter text.
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

E. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

☐ Yes ☐ No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☐ Yes ☒ No

If yes, provide the TCEQ authorization number and description of the authorization:

N/A

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

☐ Yes ☒ No

If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

N/A

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?

☐ Yes ☒ No

B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

☐ Yes ☒ No

C. Details about wastes received

If yes to either Subsection A or B above, provide detailed information concerning these wastes with the application.

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 56)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - performing work for another company with a unit located in the same site; or
  - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements.

The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.*

Printed Name: N/A

Title: N/A

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

The following information is required for new and amendment major applications.

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

Rock Creek West is a proposed resort community, with Residential/ membership which ultimately will serve up to 140 homes on about 160 acres in Cooke county. There are no exiting sanitary sewer facilities within 1 mile of the site, and public facilities are needed to accommodate the proposed development plans. Due to the terrain of the property, double Diamond Inc. is proposing a common force main with individual grinder pumps at each residence, as has been utilized in their Rock Creek and The Retreat developments in Texas. With the initial availability of lots near CR 106 and the proposed aerobic treatment about 1 mile away near the back of the development, and random nature of occupancy, we anticipate that 15 to 20 connections may be required to eliminate septic flows to the plant.

A temporary public septic disposal system is need to treat these initial low flows. So that there is sufficient flow and minimal detention time in the public force mains to assure efficient operation of the package plant when it is put into operation approximately 10 years for now.

B. Regionalization of facilities

For additional guidance, please review TCEQ's Regionalization Policy for Wastewater Treatment[1].

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

1. Municipally incorporated areas

If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

Is any portion of the proposed service area located in an incorporated city?

☐ Yes ☒ No ☐ Not Applicable

If yes, within the city limits of: N/A

If yes, attach correspondence from the city.

Attachment: N/A

[1] https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater

If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

Attachment: N/A

2. ***Utility CCN areas***

Is any portion of the proposed service area located inside another utility's CCN area?

☐ Yes ☒ No

If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.

Attachment: N/A

3. ***Nearby WWTPs or collection systems***

Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?

☐ Yes ☒ No

If yes, attach a list of these facilities and collection systems that includes each permittee's name and permit number, and an area map showing the location of these facilities and collection systems.

Attachment: N/A

If yes, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

Attachment: N/A

If the facility or collection system agrees to provide service, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the facility or collection system versus the cost of the proposed facility or expansion.

Attachment: N/A

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☒ No

If no, proceed to Item B, Proposed Organic Loading.

If yes, provide organic loading information in Item A, Current Organic Loading

A. Current organic loading

Facility Design Flow (flow being requested in application): Click to enter text.

Average Influent Organic Strength or BOD_5 Concentration in mg/l: Click to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): Click to enter text.

Provide the source of the average organic strength or BOD_5 concentration.

Click to enter text.

B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality	N/A	N/A
Subdivision	.005	250 – 400
Trailer park – transient	N/A	N/A
Mobile home park	N/A	N/A
School with cafeteria and showers	N/A	N/A
School with cafeteria, no showers	N/A	N/A
Recreational park, overnight use	N/A	N/A
Recreational park, day use	N/A	N/A
Office building or factory	N/A	N/A
Motel	N/A	N/A
Restaurant	N/A	N/A
Hospital	N/A	N/A
Nursing home	N/A	N/A
Other	N/A	N/A
TOTAL FLOW from all sources	.005	250 – 400
AVERAGE BOD_5 from all sources	.005	250 – 400

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 59)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: N/A

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: N/A

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: N/A

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: N/A mg/l after N/A minutes detention time at peak flow

Dechlorination process: N/A

☐ Ultraviolet Light: N/A seconds contact time at peak flow

☐ Other: N/A

Section 4. Design Calculations (Instructions Page 59)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: See Appendix {Design Calculations}

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

☒ Yes ☐ No

If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

N/A

Provide the source(s) used to determine 100-year frequency flood plain.

Preliminary Drainage Study submitted to Cooke County in the Preliminary Plat process.

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

☐ Yes ☒ No

If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

☐ Yes ☐ No

If yes, provide the permit number: N/A

If no, provide the approximate date you anticipate submitting your application to the Corps: N/A

B. Wind rose

Attach a wind rose: See Appendix {Wind Rose}

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

☐ Yes ☒ No

If yes, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)**: N/A

B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

If any of the above, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)**: N/A

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

Attachment: N/A - Septic tanks will be monitored for solids build-up, and removed by a licensed, "Pump and Haul" contractor.

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities
- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

The following is required for renewal, new, and amendment permit applications.

Section 1. Type of Disposal System (Instructions Page 68)

Identify the method of land disposal:

- ☐ Surface application
- ☐ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Other (describe in detail): Click to enter text.
- ☐ Subsurface application
- ☒ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: N/A

Section 2. Land Application Site(s) (Instructions Page 68)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Native Grasses (Pastureland)			

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 68)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
N/A	N/A	N/A	N/A	N/A

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment: N/A

Section 4. Flood and Runoff Protection (Instructions Page 68)

Is the land application site within the 100-year frequency flood level?

☐ Yes ☒ No

If yes, describe how the site will be protected from inundation.

N/A

Provide the source used to determine the 100-year frequency flood level:

Preliminary Drainage study submitted with the Cooke County Preliminary Plat for Rock Creek West.

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

None.

Section 5. Annual Cropping Plan (Instructions Page 68)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment**: N/A – No crops are proposed within the development

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

Section 6. Well and Map Information (Instructions Page 69)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: See Appendix {Well Map}

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1-mile radius of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells located within a half-mile radius of the disposal site or property boundaries shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
679207	Irrigation	N	Cased	Meeting appropriate buffers
59994	Domestic	Y	Cased	Meeting appropriate buffers
64335	Domestic	Y	Cased	Meeting appropriate buffers
64360	Domestic	Y	Cased	Meeting appropriate buffers

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
-	-	-	-	-

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

Attachment: See Appendix {Well ID}

Section 7. Groundwater Quality (Instructions Page 69)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: Click to enter text.

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

Do you plan to install ground water monitoring wells or lysimeters around the land application site? ☐ Yes ☒ No

If yes, provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment: N/A

Section 8. Soil Map and Soil Analyses (Instructions Page 70)

A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

Attachment: N/A

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note**: for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: Click to enter text.

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
#26 -Gasil loamy fine sand	0 -61”	Group B	0.57 -1.98	
#29 – Gasil fine sandy loam	0 – 80”	Group B	0.57 -1.98	
#37 – Konsil loamy fine sand	H1 0 – 80”	Group B	0.2 – 1.98	
#6 -Birome-Aubry-Rayex comp.	0-44”	Group C	0.06 -0.57	

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
#17 – Crosstell fine sandy loam	0-48”	Group D	0.0 – 0.06	

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☐ Yes ☒ No

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **does not meet** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

- ☒ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: Click to enter text.

Application area, in acres: 1.87

Area of drainfield, in square feet: 64,000

Application rate, in gal/square foot/day: 0.25

Depth to groundwater, in feet: 20+

Area of trench, in square feet: 10,300

Dosing duration per area, in hours: 24

Number of beds: 1

Dosing amount per area, in inches/day: 0.38

Infiltration rate, in inches/hour: 0.016

Storage volume, in gallons: 8,000

Area of bed(s), in square feet: 20,600

Soil Classification: sandy loam

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of *§* 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: See Appendix {Engineering Report}

Section 2. Edwards Aquifer (Instructions Page 74)

Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☒ No

Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☒ No

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

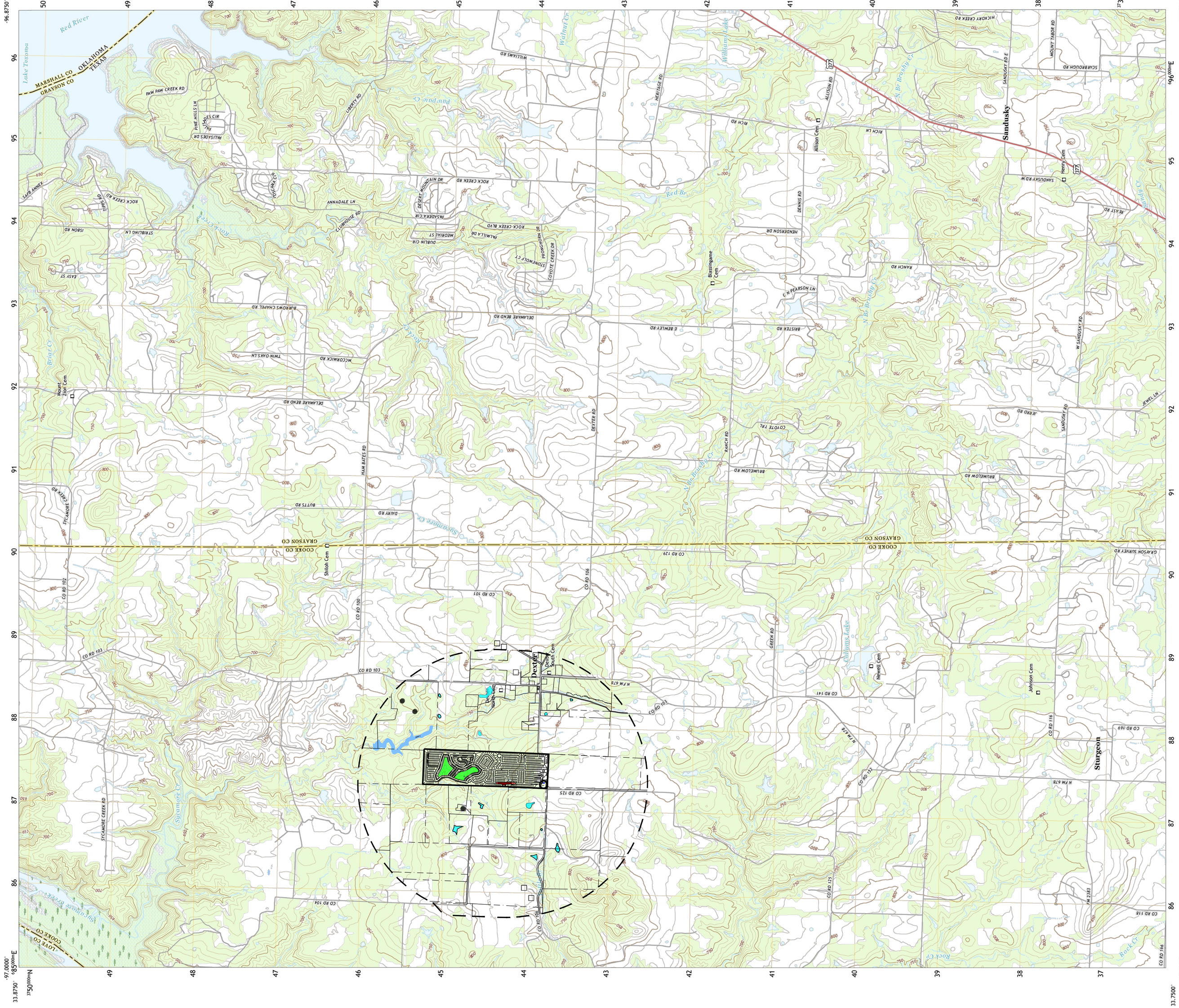
File Name: P:\Projects\DDS2301 - 158 Acres Cooke Co\DWG\TCEQ\SEWER\PBASE-UTILITY.dwg

DEXTER QUADRANGLE
TEXAS - OKLAHOMA
7.5-MINUTE SERIES

The National Map
US Topo

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

USGS
science for a changing world



ROAD CLASSIFICATION

Expressway	Local Connector
Local Boundary Hwy	Local Road
Ramp	4WD
Interstate Route	State Route
	US Route

TEXAS

QUADRANGLE LOCATION

1	2	3
		5
4		
6	7	8

ADJOINING QUADRANGLES

1 Marietta East
2 Lebanon
3 Nida
4 Horseshoe Bend
5 Gordonville
6 Callisburg
7 Whitesboro
8 Sadler

DEXTER, TX, OK
2022

SCALE 1:24 000

KILOMETERS 0 1 2
METERS 0 1000 2000
MILES 0 0.5 1
METERS 0 500 1000
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the
National Geospatial Program US Topo Product Standard.

UTM GRID AND 2019 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

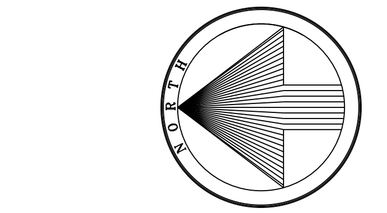
1 MN
GN
3°15'
59 MILS
1°9'
20 MILS

1 KILOMETER GRID: ZONE 14	
10,000-m Square ID	PC
Grid Zone Designation	14Q

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1,000-meter grid: Universal Transverse Mercator, Zone 14S
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery ..... NAIP, September 2016 - July 2017
Elevation ..... 3DEP, 1/9 meter 2015
Names ..... U.S. Census ..... GNIS, 1979 - 2009
Hydrography ..... National Hydrography Dataset, 2005 - 2018
Contours ..... 3DEP, 1/9 meter ..... 2015 - 2018
Boundaries ..... Multiple sources; see metadata file ..... 2019 - 2021
Public Land ..... Various sources; see publication info 2020
Wetlands ..... FWS National Wetlands Inventory ..... 1981 - 1982

1 MILE RADIUS
USGS TOPOGRAPHIC MAP
EXHIBIT
FOR
COOKE COUNTY 158 ACRE TRACT



LEGEND

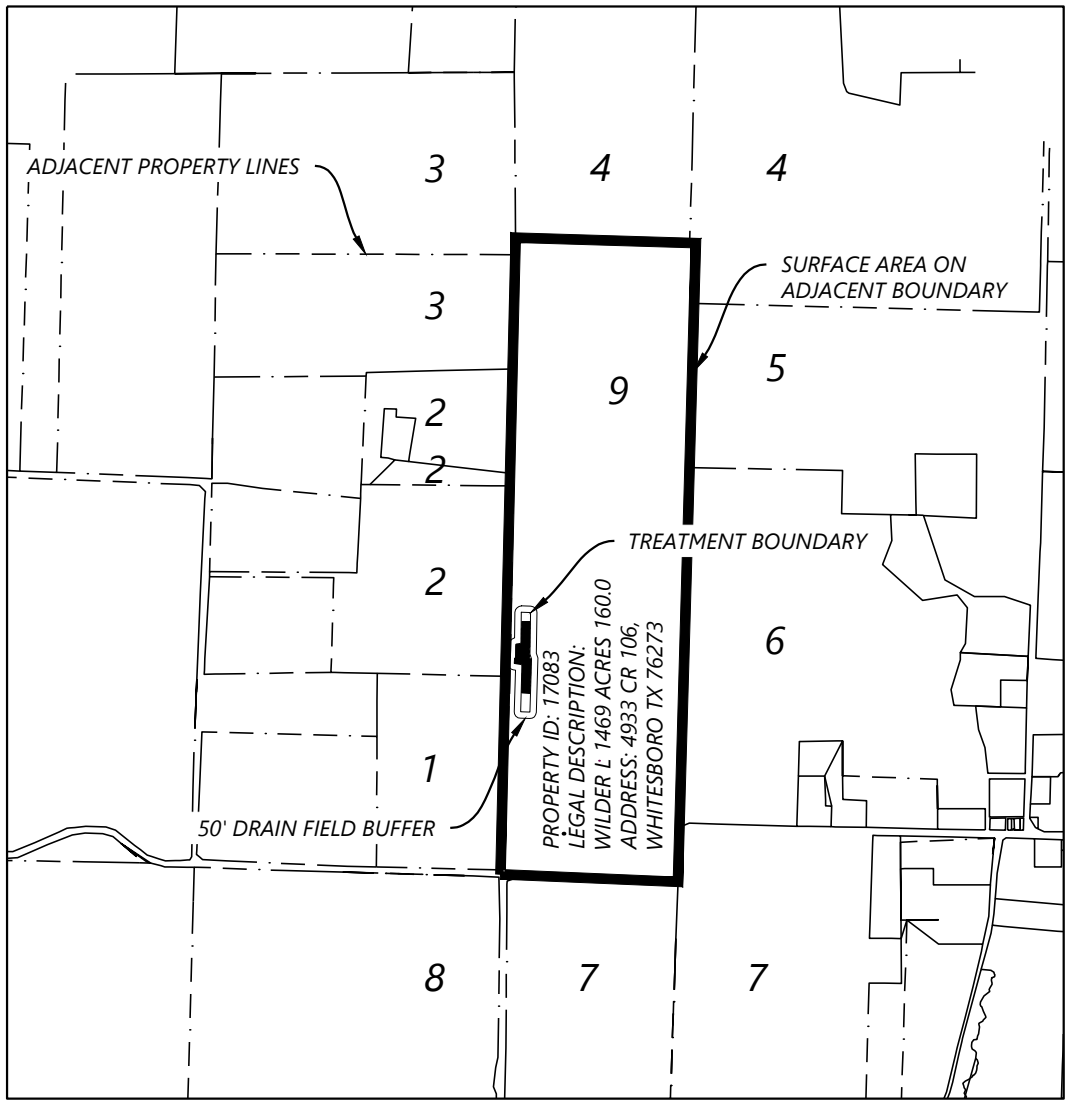
- PROPERTY BOUNDARY
- 1 MILE RADIUS OFFSET FROM TREATMENT FACILITY BOUNDARY
- ADJACENT LOT LINES
- EXISTING PONDS
- TREATMENT FACILITY BOUNDARY
- FEMA FLOOD ZONE A
- FUTURE STORM DETENTION AREAS
- WELL OR STORAGE TANK

OWNER
DOUBLE DIAMOND INC.
12720 HILLCREST ROAD, SUITE 400
DALLAS, TEXAS 75230
PHONE (214) 706-9800

ENGINEER
ALLISON ENGINEERING GROUP, INC.
2415 N ELM ST
DENTON, TEXAS 76201
PHONE (940) 380-9453
TBPE REG. #: F-7898

PREPARED DECEMBER, 2024

File Name: P:\Projects\DDS2301 - 158 Acres Cooke Co\DWG\TCEQ\SEWER\PBASE-UTILITY.dwg



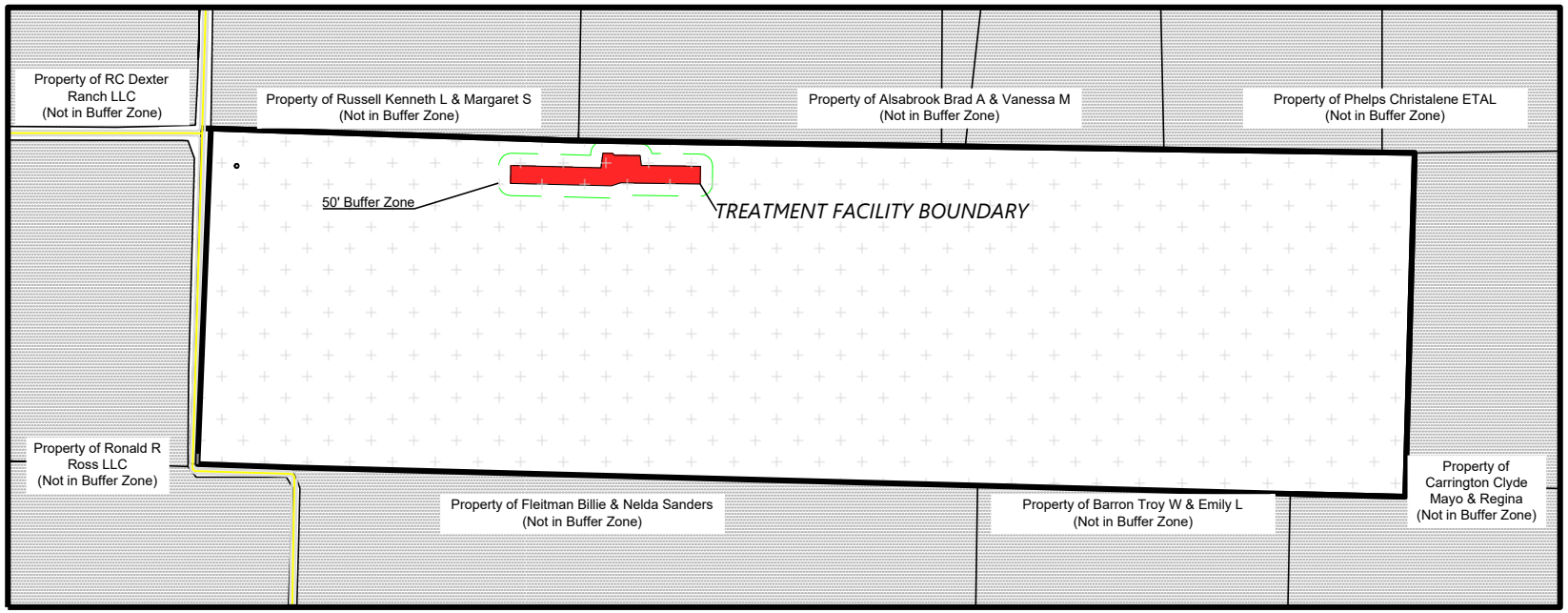
ADJACENT AND DOWNSTREAM LAND OWNERS
FOR
ROCK CREEK WEST

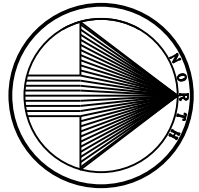
OWNER
DOUBLE DIAMOND INC,
12720 HILLCREST ROAD, SUITE 400
DALLAS, TEXAS 75230
PHONE (214) 706-9800

ENGINEER
ALLISON ENGINEERING GROUP, INC.
2415 N ELM ST
DENTON, TEXAS 76201
PHONE (940) 380-9453
TBPE REG. #: F-7898

Allison Engineering Group
Planning Communities - Designing the Systems That Serve Them

PREPARED DECEMBER, 2024





LEGEND

- *PROPERTY BOUNDARY*
- *50' BUFFER ZONE*
- *ADJACENT LOT LINES*
- *ROAD*
- *ADJACENT LOT*
- *TREATMENT FACILITY BOUNDARY*

BUFFER ZONE MAP
FOR
ROCK CREEK WEST

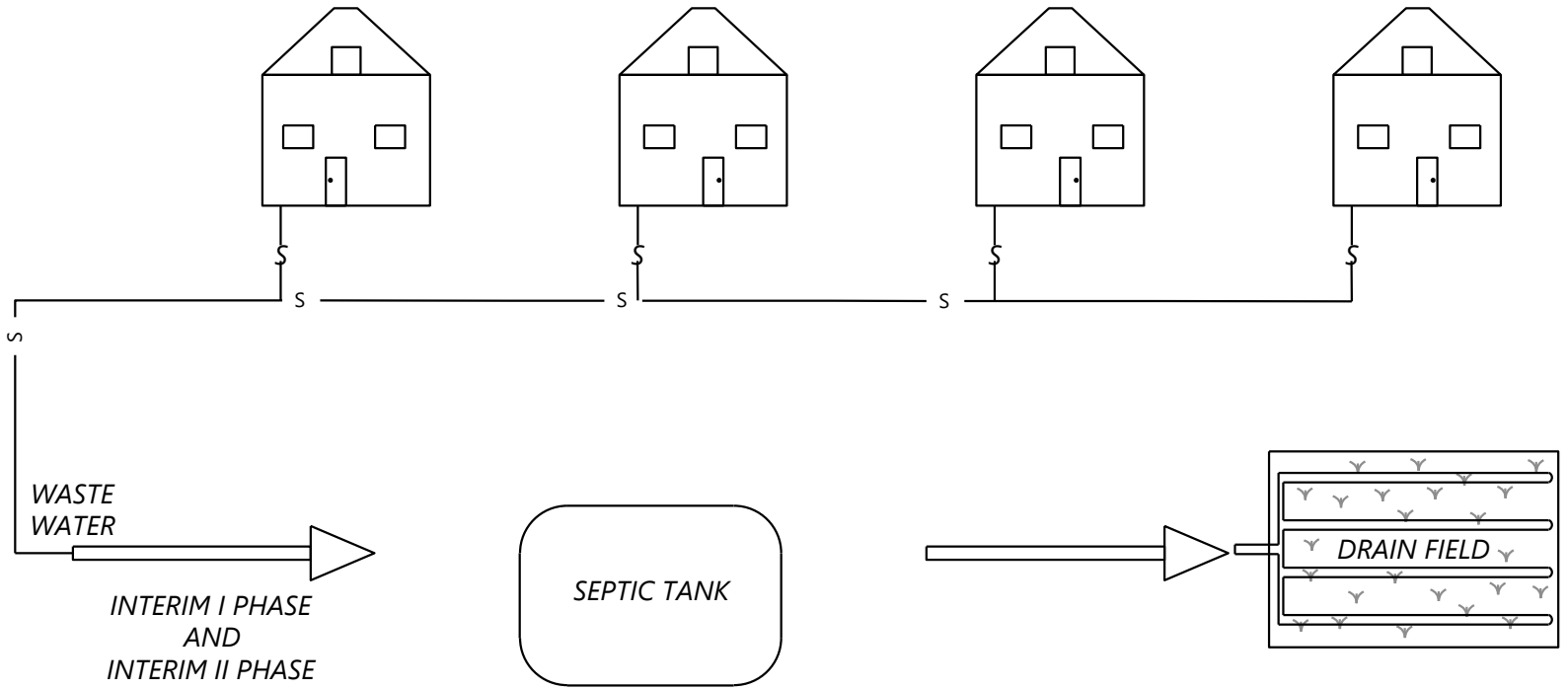
OWNER
DOUBLE DIAMOND INC.
12720 HILLCREST ROAD, SUITE 400
DALLAS, TEXAS 75230
PHONE (214) 706-9800

ENGINEER
ALLISON ENGINEERING GROUP, INC.
2415 N ELM ST
DENTON, TEXAS 76201
PHONE (940) 380-9453
TBPE REG. #: F-7898

Allison Engineering Group
Planning Communities - Designing the Systems That Serve Them

PREPARED DECEMBER, 2024

File Name: P:\Projects\DDS2301 - 158 Acres Cooke Co\DWG\TCEQ\SEWER\PBASE-UTILITY.dwg



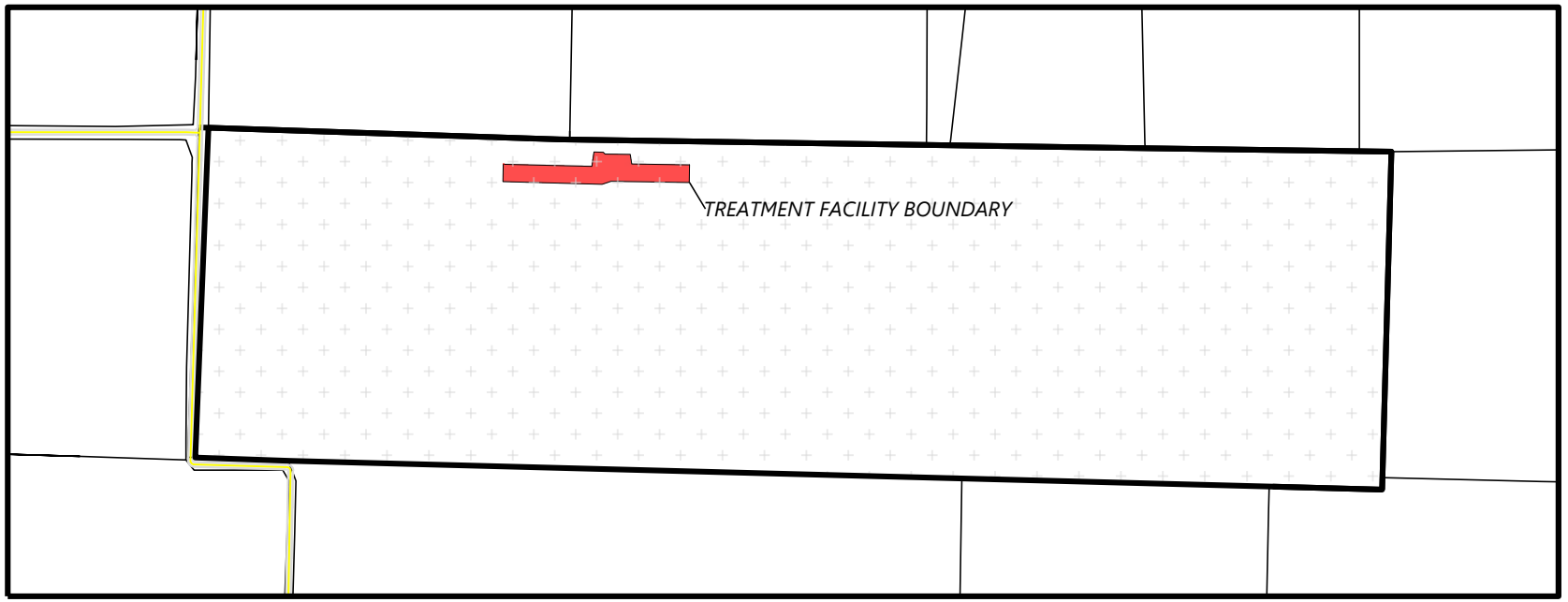
FLOW DIAGRAM
FOR
ROCK CREEK WEST

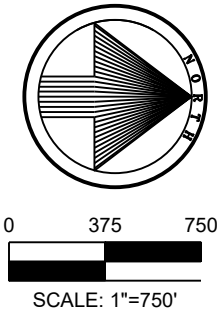
OWNER
DOUBLE DIAMOND INC,
12720 HILLCREST ROAD, SUITE 400
DALLAS, TEXAS 75230
PHONE (214) 706-9800

ENGINEER
ALLISON ENGINEERING GROUP, INC.
2415 N ELM ST
DENTON, TEXAS 76201
PHONE (940) 380-9453
TBPE REG. #: F-7898

Allison Engineering Group
Planning Communities - Designing the Systems That Serve Them

PREPARED DECEMBER, 2024





LEGEND

- *PROPERTY BOUNDARY*
- *ROAD*
- *ADJACENT LOT LINES*
- *AREA SERVED BY THE TREATMENT FACILITY*
- *TREATMENT FACILITY BOUNDARY*

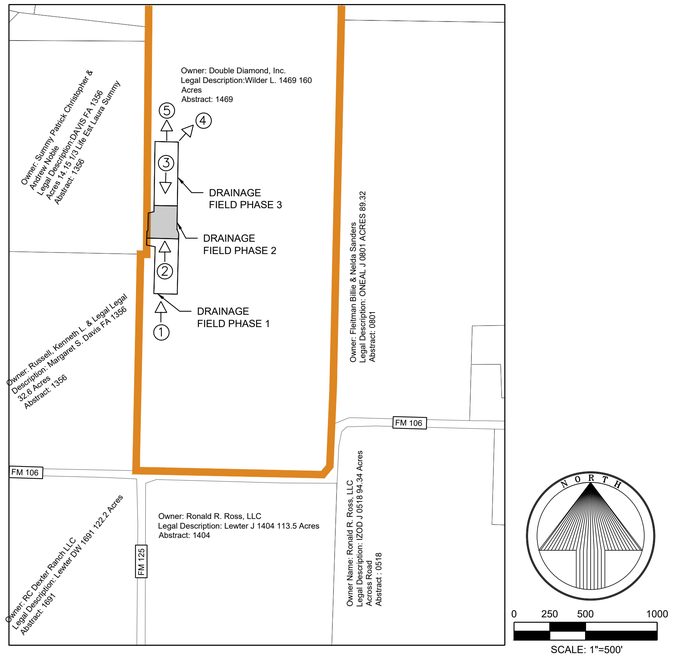
SITE DRAWING
FOR
ROCK CREEK WEST

OWNER
DOUBLE DIAMOND INC.
12720 HILLCREST ROAD, SUITE 400
DALLAS, TEXAS 75230
PHONE (214) 706-9800

ENGINEER
ALLISON ENGINEERING GROUP, INC.
2415 N ELM ST
DENTON, TEXAS 76201
PHONE (940) 380-9453
TBPE REG. #: F-7898

Allison Engineering Group
Planning Communities - Designing the Systems That Serve Them

PREPARED DECEMBER, 2024



⑤

④

①

②

③

Texas 811
Know what's below.
Call before you dig.

REV. 5
REV. 4
REV. 3
REV. 2
REV. 1

2415 N. ELM STREET
DENTON, TEXAS 76201
Phone: (940) 387-9453
allengrp.com

Texas Board of Professional Engineers
Registration Number: F-7898

info@ae-grp.com

Allison Engineering Group
Planning Communities - Designing the Systems That Serve Them

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF
46234
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Drawn by: RLB
Checked by: GE

DOUBLE DIAMOND COMPANY
ROCK CREEK WEST
LAKE TEXOMA, COOKE COUNTY, TEXAS

ORIGINAL PHOTOGRAPHS

Job: DDS2301
SHEET

Made in Texas

Plotted By: Roger Buscell
Plot Date:Thursday, December 5, 2024 10:17:35 AM
Plot Style Table:Allison.ctb
Save Date:Thursday, December 5, 2024 10:17:35 AM
File Name:P:\Projects\DDS2301 - 158 Acres Cooke Co\DWG\TCEQ\SEWER\COVER.dwg

DESIGN CALCULATIONS FOR COOKE COUNTY 158 ACRE TRACT

PHASE 1 SYSTEM CAPACITY
2,575 GAL/DAY

TANK CAPACITY Q = 8,000 GAL V = 1750 + 0.75Q
ALLOWABLE FLOW Q = 8,333 GAL/DAY

PHASE 1 - 2,060 LF

LINE CAPACITY Q = 1.25 GAL/ LF * 2060 = 2,575 GAL/DAY

PHASES 2 SYSTEM CAPACITY
5,050 GAL/ DAY

TANK CAPACITY Q = 8,000 GAL V = 1750 + 0.75Q
ALLOWABLE FLOW Q = 8,333 GAL/DAY

PHASE 1 - 2,060 LF 3' TRENCH
PHASE 2 - 1980 LF 3' TRENCH
TOTAL: 4,040

LINE CAPACITY Q = 1.25 GAL/ LF * 4,040 = 5,050 GALLONS/DAY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
'DOMESTIC' **WASTEWATER/STORMWATER**

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Double Diamond Properties Construction Company (CN603168436) proposes to operate Rock Creek West (RN111923157), a wastewater treatment facility. The facility will be located at 4933 CR 106, in Whitesboro, Cooke County, Texas 76273. New application to discharge process wastewater and stormwater on an intermittent and flow-variable basis.

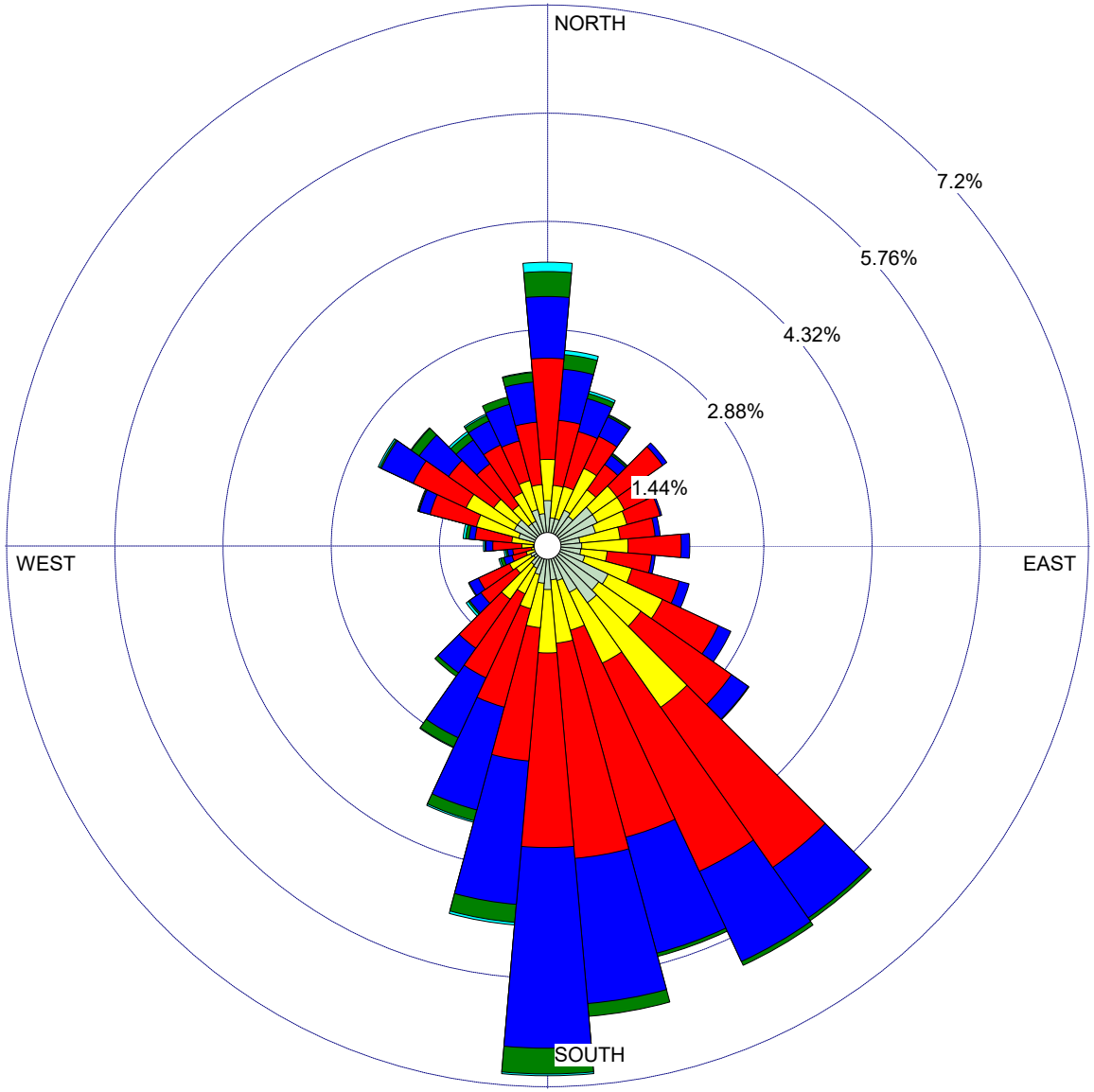
Discharges from the facility are expected to contain stormwater discharge. Stormwater and process wastewater will be treated by no personal on site.

WIND ROSE PLOT:

Station #13966 - WICHITA FALLS/MUNICIPAL ARPT, TX

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 4.86%

COMMENTS:

Data from the Meteorological Resouces Center (MRC).

Using MRC the proximate station is within the location is Sation #13966

DATA PERIOD:

Start Date: 1/1/1992 - 00:00
End Date: 12/31/1992 - 23:00

TOTAL COUNT:	CALM WINDS:
8784 hrs.	**4.86%**

AVG. WIND SPEED:

4.18 m/s

COMPANY NAME:

Allison Engineering Group

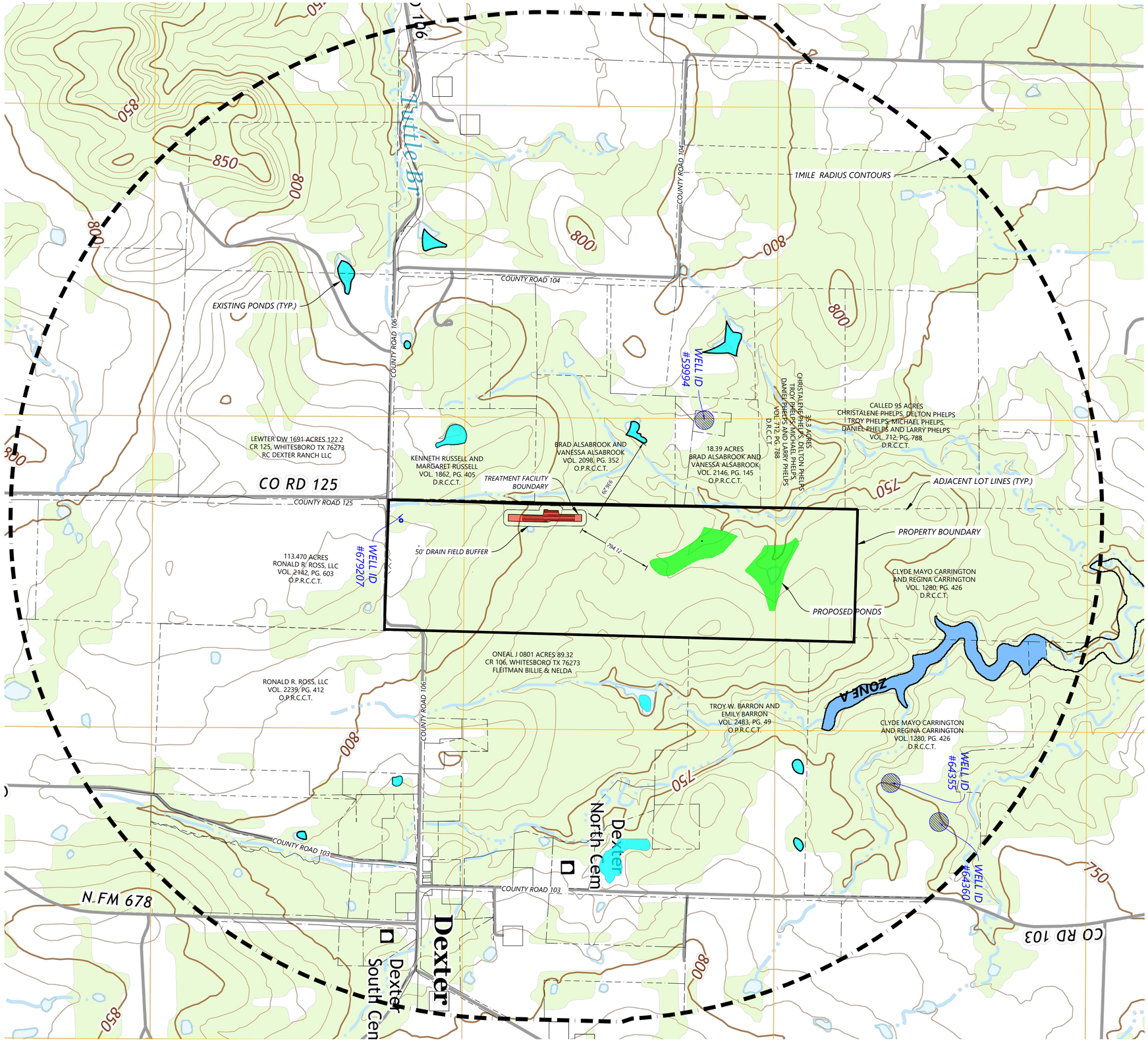
MODELER:

DATE:

12/13/2024

Allison Engineering Group
Planning Communities - Designing the Systems That Serve Them

PROJECT NO.:



0 250 500 1000

SCALE: 1"=500'

LEGEND

- PROPERTY BOUNDARY
- 760 — EXISTING USGS CONTOURS
- 1 MILE RADIUS OFFSET FROM TREATMENT FACILITY BOUNDARY
- ADJACENT LOT LINES
- EXISTING PONDS
- TREATMENT FACILITY BOUNDARY
- FEMA FLOOD ZONE A
- FUTURE STORM DETENTION AREAS
- WELL OR STORAGE TANK

WELL MAP

ON A

1 MILE RADIUS
USGS TOPOGRAPHIC MAP
EXHIBIT
FOR
COOKE COUNTY 158 ACRE TRACT

OWNER
DOUBLE DIAMOND INC.
12720 HILLCREST ROAD, SUITE 400
DALLAS, TEXAS 75230
PHONE (214) 706-9800

ENGINEER
ALLISON ENGINEERING GROUP, INC.
2415 N ELM ST
DENTON, TEXAS 76201
PHONE (940) 380-9453
TBPE REG. #: F-7898

PREPARED DECEMBER, 2024

File Name: P:\Projects\DDS2301 - 158 Acres Cooke Co\DWG\TCEQ\SEVER\PBASE-UTILITY.dwg

STATE OF TEXAS WELL REPORT for Tracking #679207

Owner:	**Double Diamond Inc.**	Owner Well #:	**No Data**
Address:	**12720 Hillcrest Rd. Suite 400 Dallas, TX 75230**	Grid #:	**18-09-4**
Well Location:	**C.R. 106 Whitesboro, TX 76273**	Latitude:	**33° 49' 04.67" N**
		Longitude:	**096° 58' 32.61" W**
Well County:	**Cooke**	Elevation:	**No Data**

Type of Work: **New Well** Proposed Use: **Irrigation**

Drilling Start Date: **7/17/2024** Drilling End Date: **8/8/2024**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**16**	**0**	**800**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**595**	**800**	**Gravel**	**12/20**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**595**	**Cement 555 Bags/Sacks**

Seal Method: **Positive Displacement**

Sealed By: **Quazar Energy**

Variance Number: **Eng.**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Steel Cased** **Surface Completion NOT by Driller**

Water Level: **554 ft.** below land surface on **2024-08-13** Measurement Method: **Air Line**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
603 - 770	**fresh**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **THI WATER WELL**

P O BOX 1419
BOWIE, TX 76230

Driller Name: **Paul Spruiell** License Number: **54275**

Apprentice Name: **Justin Doty, Scott Moore** Apprentice Number: **61616, 61590**

Comments: **Cement well Sec. C.2 Positive Displacement Exterior Method Class A Neat Cement**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**20**	**Top Soil tan clay**
20	**80**	**sandy clay**
80	**120**	**sand stone**
120	**180**	**clay and sand streaks**
180	**200**	**blue clay and lime**
200	**590**	**lime stone and shale streaks**
590	**750**	**sand and shale**
750	**770**	**sand**
770	**800**	**shale , lime**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
8	**Blank**	**New Steel**	**0.25**	**0**	**603**
8	**Screen**	**New Pipe Base Stainless Steel**	**0.020**	**603**	**729**
8	**Blank**	**New Steel**	**0.25**	**729**	**749**
8	**Screen**	**New Pipe Base Stainless Steel**	**0.020**	**749**	**770**
8	**Blank**	**New Steel**	**0.25**	**770**	**800**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #59994

Owner:	**Mona Interwicz**	Owner Well #:	**No Data**
Address:	**494 CR 104 Whitesboro, TX 76273**	Grid #:	**18-09-4**
Well Location:	**494 CR 104 Whitesboro, TX 76273**	Latitude:	**33° 49' 36" N**
		Longitude:	**096° 58' 46" W**
Well County:	**Cooke**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **5/9/2005** Drilling End Date: **5/25/2005**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**905**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**160**	**905**	**Gravel**	

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**150**	**18**

Seal Method: **Tremmie Tube**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Tape**

Surface Completion: **Alternative Procedure Used**

Water Level: **300 ft.** below land surface on **2005-05-24** Measurement Method: **Unknown**

Packers: **none**

Type of Pump: **Submersible** Pump Depth (ft.): **420**

Well Tests: **Bailer** **Yield: 10 GPM with 40 ft. drawdown after 2 hours**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	**No Data**

Chemical Analysis Made: **Unknown**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **A.L. Moser Drilling Inc.**

P.O. Box 96
Pottsboro, TX 75076

Driller Name: **Ronnie Abston** License Number: **2386**

Comments: **updated longitude by TWDB on 12/6/2012.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**20**	**sand and sand stone**
20	**110**	**shale and sand**
110	**538**	**shale and lime**
538	**860**	**shale and sand**
860	**892**	**sand**
892	**905**	**shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4-1/2	**New**	**Steel**	**0-905**
4-1/2	**New**	**Screen Mfg.**	**875-890 .020**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #64355

Owner:	**Mayo Carrington #2**	Owner Well #:	**No Data**
Address:	**P O Box 110229 Carrollton, TX 75011**	Grid #:	**18-09-4**
		Latitude:	**33° 49' 55" N**
Well Location:	**P O Box 110229 Same, TX 75011**	Longitude:	**096° 58' 00" W**
Well County:	**Cooke**	Elevation:	**No Data**

Type of Work: **New Well** Proposed Use: **Domestic**

Drilling Start Date: **12/15/2003** Drilling End Date: **12/16/2003**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**220**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**50**	**220**	**Gravel**	

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**50**	**15**

Seal Method: **Treemie Tube**

Sealed By: **A L Moser Drilling Inc**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Septic**

Surface Completion: **Surface Sleeve Installed**

Water Level: **50 ft.** below land surface on **2003-12-16** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **80**

Well Tests: **Bailer** **Yield: 10 GPM with 20 ft. drawdown after 1 hours**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **A L Moser Drilling Inc - Frank Bauman**

P O Box 96
Pottsboro, TX 75076

Driller Name: **Frank Bauman** License Number: **4909**

Comments: **LCS$**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**1**	**Top Soil**
1	**15**	**Clay**
15	**52**	**Clay and Sand**
52	**98**	**Sand**
98	**130**	**Shale and Lime**
130	**178**	**Shale and Sand**
178	**179**	**Hard Sand**
179	**220**	**Shale and Sand**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
4 1/2 New Plastic Casing 220 100 Slots
4 1/2 New Screen 100 80 .020
4 1/2 New Casing 80 0

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #64360

Owner:	**Mayo Carrington #1**	Owner Well #:	**No Data**
Address:	**P O Box 110229 Carrollton, TX 75011**	Grid #:	**18-09-1**
		Latitude:	**33° 50' 00" N**
Well Location:	**P O Box 110229 Same, TX 75011**	Longitude:	**096° 57' 55" W**
Well County:	**Cooke**	Elevation:	**No Data**

Type of Work: **New Well** Proposed Use: **Domestic**

Drilling Start Date: **12/11/2003** Drilling End Date: **12/12/2003**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**220**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**50**	**220**	**Gravel**	

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**50**	**15**

Seal Method: **Tremie Tube**

Sealed By: **A L Moser Drilling Inc**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Septic**

Surface Completion: **Surface Sleeve Installed**

Water Level: **40 ft.** below land surface on **2003-12-12** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **80**

Well Tests: **Bailer** **Yield: 10 GPM with 20 ft. drawdown after 1 hours**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **A L Moser Drilling Inc - Frank Bauman**

P O Box 96
Pottsboro, TX 75076

Driller Name: **Frank Bauman** License Number: **4909**

Comments: **LCS$**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4**	**Clay**
4	**18**	**Clay**
18	**60**	**Shale and Sand**
60	**96**	**Sand**
96	**110**	**Shale**
110	**180**	**Shale and Sand**
180	**182**	**Lime**
182	**185**	**Sand**
185	**220**	**Shale and Sand**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
4 1/2 New Plastic Casing 220 100
4 1/2 New Screen 100 80 .020
4 1/2 New Casing 80 0

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

ENGINEERING REPORT

Rock Creek West if planned as an expansion of Rock Creek Resort, a resort community that started providing water and wastewater service in 2007. Being a resort community, many people buy lots in order to be a member of the resort and use the golf course, marina, and other amenities at the resort. At this time, the Rock Creek Resort has approximately 2,700 platted lots with approximately 150 existing water and wastewater connections with limited space for expansion. In similar resorts communities operated by Double Diamond Inc. the number of occupied lots are typically less than 20%, 20 years after full buildout of the lots. This low occupancy rate presents relatively unique operational and planning challenges for the resort.

POTABLE WATER AND WASTEWATER FACILITIES

Neither Public Water or Sanitary Sewer facilities appear to be available. The Master Plans and computation attach in Appendix 'A indicate that an adequate wastewater collection appear to be feasible. Double Diamond has obtained a permit from the Ground Water District to drill a test well on the site at the location shown on the Water Master Plan, The Well drillers have completed a test well with the test indicate that the well will produce approximately 120 gallons per minute which should support a request for a Public Water Well System which will have capacities to serve up to 200 connections.

The wastewater collection system as shown in the Master Plan will be similar to the Rock Creek system consisting of common force mains with private grinder pump stations at each of the occupied connections. The owners are familiar with the operation of these system, and with the rugged terrain, the cost of the smaller, shallower force main collection system appear to significantly off-set any increase pumping and maintenance costs.

TEMPORARY WASTEWATER TREAMENT SYSTEM

As shown on the Master Plans, the first phase of the development will be near the entrance on CR 106, while the proposed permanent wastewater treatment plant will be about a mile away, near the north west corner of the tract. Double Diamonds experience with these systems indicate that they will need sustained flow from 10 to 20 connections to assure the health of the bacteria needed to efficiently run an aerobic wastewater treatment plan. The plans for a temporary public septic system is attached at Appendix 'B', The proposed system is on a portion of the property which will be reserved for future development and designed in accordance with On-Site Sewer Facilities, Title 30, TAC Chapter 285, generally approved for private sewer facilities, is proposed for the initial operation of the public wastewater system. With the anticipated slow occupancy of the homesites, we are proposing to construct the system in three phases, totally a little over 8,000 gallon per day capacity at full build out of the temporary system.

With Phase 1 of the septic system, we are proposing to provide about 2,500 gallons per day treatment capacity. The Final Plat for the first Phase of development is projected to contain about 150 lot. The Plat and construction of the roads and utilities will not begin until TCEQ has approved both our water and wastewater permit requests. We anticipate that the first connection

to the system will be the guard house which will probably be manned two to three years after Plat approval. Generally home construction starts off a little slow so we anticipate that it will be four to seven years after Plat approval of Phase 1 for the fifth home building permit to be issued. If lot/ membership sales continue to be high, Double Daimond anticipates that Phase 2 of the development may be in for platting and extending the proposed roads and lots north along the Eastern half of the project during the operation of the Phase 1 septic system.

Phase 2 of the septic system will be extended to increase the capacity of the system to over 5,000 gallons per day. Double Diamond anticipates that this expansion should be completed prior to the connection of the fifth home for service, and that will extend the capacity of the system to allow for 2 to 4 more years of home construction.

Phase 3 will be triggered prior to the issuance of the 10^{th} building permit. We will begin the permitting of the ultimate aerobic treatment facility. Depending on the location and type of flow within the system we will evaluate if the wastewater will be able to make it to the plant before turning septic. If additional load is required, we may seek approval for additional septic treatment before operation of the aerobic plant begins.

PERMANENT WASTEWATER TREAMENT PLANT

The Master Plans shows the planned location of the proposed wastewater treatment plant. We anticipate that the treated effluent will be discharged into an existing creek bed that is a tributary to Lake Texoma. The effluent will proceed down this tributary approximately 4 miles, prior to entering Lake Texoma. We are requesting that TCEQ issue a discharge permit for this location and determine the allowable effluent limits associated with this location.

With the varied terrain, Double Diamond Inc has found that a Common Force Main with individual Grinder Pump stations at each of the residential units for collection and delivery to the ultimate sewerage treatment facility. They have found that the long detention times in the wet wells and force mains needed to get the effluent to the plant, cause the effluent to turn septic and adversely impact the aerobic digestive systems, until there is sufficient load on the system for the effluent to reach the plant within 24 hours. We hope that the phased temporary system and the locations of the new homes within the collection system will provide sufficient capacity to minimize problems at the start-up of the permanent plant.

Besides reducing the initial cost of the system, phasing will assure that the future phases will not experience any deterioration during the operation of the previous phases.

A. TCEQ FINAL ENGINEERING DESIGN REPORT REQUIREMENTS:

(1) a map showing the current service area, the proposed service area and any area proposed for future expansion;

A sanitary sewer collection system Master Plan which shows the proposed service area is attached as Appendix “A“. Currently no sanitary sewer service is provided in the vicinity of this project.

(2) the topographic features of the current, proposed, and future service areas;

A sanitary sewer collection system Master Plan which shows the proposed service area is attached as Appendix "A".

(3) a description of how the design flow was determined;

It is anticipated that most of the homes in Rock Creek West will be less than 2,500 square feet, with none of the homes exceeding 4,500 square feet. Wastewater usage rates from Title 30, TAC Chapter 285-91, (3) shall be used to assure system capacities are not exceeded, during the life of the Temporary Treatment System.

(4) the minimum and maximum grades for each size and type of pipe;

Minimum grade for 4" solid pipe shall be 2%
Maximum grade for 4" solid pipe shall be 10%
Proposed grade for 4" perforated drain-field pipe shall be 0%
As shown in the attached plans, reverse slope may be utilized to assure drain field trenches are completely filled.

(5) calculations of expected minimum and maximum velocities in the system for each size and type of pipe;

Minimum velocity for 4" solid pipe shall be 3 feet per second
Maximum velocity for 4" solid pipe shall be 7 feet per second
Proposed minimum velocity for 4" perforated drain-field pipe shall be 0 feet per second
Maximum velocity for 4" perforated drain-field pipe, based on filling rate estimated to be 3 feet per second

(6) the proposed system's effect on an associated existing system capacity;

There is no existing system.

(7) the existing and anticipated inflow and infiltration, the hydraulic effect of the inflow and infiltration on the proposed and existing systems, any inflow and infiltration flow rate monitoring, and any inflow and infiltration abatement measures;

The drain field by design is susceptible to significant infiltration but should have sufficient capacity to exfiltrate 100% of the effluent.

(8) a description of the ability of the existing and proposed trunk and interceptor wastewater collection systems and lift stations to handle the peak flow;

There is no existing system. Calculations for Master Plan capacities included in Appendix 'A'

(9) the capacity of the receiving treatment facility to receive and adequately treat the anticipated peak flow;

There is no existing system.

(10) an engineering analysis showing compliance with structural design, minimization of odor-causing conditions, and the pipe design requirements of para. 217.55 of this title (relating to Manholes and Related Structures);

Temporary Treatment system is design to have capacity to exfiltrate 100% of the anticipated flow, under ground minimizing odor-causing conditions. The attached plans contain details for the structures and piping to assure reliable use.

(11) a description of the areas not initially served by a project, and the projected means of providing service to these areas, including special provisions incorporated in the present plans for future expansion;

The Master Plan at Appendix "A" shows the ultimate service area. The temporary wastewater treatment facility is proposed as an interim treatment facility to treat method to treat effluent until such a time that sufficient flow is available to sustain efficient treatment in a permanent wastewater treatment plant.

(12) the calculations and curves showing the operation characteristics of all system lift stations at minimum, maximum and design flows during both present and future conditions;

To be submitted with future collection system plans.

(13) the safety considerations incorporated into a project design, including ventilation, entrance, working areas, and explosion prevention.

The proposed temporary wastewater treatment system uses new, relatively common pre-cast and shallow trenches and piping systems, dangers related to Septic fumes and explosion appear to be very low.

CONCLUSIONS

Based on the developers experience with similar installations and our studies and findings we believe the proposed improvements will provide appropriate service during the economic life of the system, and provide for a much more efficient start-up of the permanent facilities when they are put into operation.

TECHNICAL SPECIFICATIONS

SANITARY SEWER FACILITIES

A. General Requirements

Sanitary sewer facilities work shall conform to the requirements of the United States of America, the State of Texas, and Grayson County as shown or noted in the plans and technical specifications.

B. Force Main Construction

1. Description

This item shall consist of the furnishing of all material, labor, equipment, and incidentals necessary for the construction of the water line, fittings, and accessories as shown on the plans.

2. Materials

All pipe shall meet or exceed ASTM D-2241 "Standard Specification for Poly (Vinyl Chloride) Plastic Pipe (SDR-35). All pipe material shall be new.

Pipe fittings shall meet or exceed ASTM D-1784 Standard Specification for Rigid Poly (Vinyl Chloride) Compounds and Chlorinated Poly (Vinyl Chloride) Compounds – for Cell Classification 12454-B.

Pipe or fittings containing more than 1% lead will not be allowed.

3. Handling Pipe and Fittings

All pipe, fittings, and specials shall be delivered, unloaded, stockpiled, hauled, distributed, installed and otherwise handled in a manner which will prevent breakage or other damage thereto and which will insure the delivery and installation thereof in a sound and acceptable condition. Rubber gaskets shall be stored away from oil, grease, sunlight, heat, and ozone producing equipment.

4. Cutting of Pipe

Cutting of pipe shall be done in a neat and workmanlike manner without damage to the pipe. The pipe shall be cut square and the burrs removed inside and out with a rasp or file. The end shall be carefully beveled in accordance with the manufacturer's installation instruction.

5. Construction Requirements

5.1 Pipe Installation

The method of installing and joining the pipe shall conform to the manufacturer's recommendations, unless otherwise approved by the Engineer.

Poly Vinyl Chloride (PVC) pipe shall be inspected for defects of damage prior to lowering into the trench. Any damaged, defective, or unsound pipe shall be removed from the job site.

5.2 Thrust Blocking

The fittings shall be blocked in accordance with the details shown on the plan with 3,000 psi concrete. Thrust blocks shall be constructed by pouring concrete between the fittings and the undisturbed trench wall. The thrust block shall be constructed so that the bearing surface is in direct line with the major force created by the pipe or fitting.

5.3 Utility Separation

The contractor shall locate all existing utilities and assure that there are no conflicts with the proposed design. Force mains running parallel or crossing existing and proposed utilities shall meet the TCEQ separation standards. Joint placement shall be in accordance with TCEQ standards.

6. Hydrostatic Leakage Rate

The allowable hydrostatic leakage rate of the distribution lines shall be based on the following formula:

$$Q = \frac{LD(P)^{1/2}}{148{,}000}$$

Where:
Q = Quantity of makeup water in gallons per hour.
L = Length of pipe section being tested.
D = Nominal diameter or pipe in inches.
P = Average test pressure during the hydrostatic test in psi.

C. Excavation, Trenching, and Backfilling

1. Description

This work shall include the furnishing of all labor, materials, and equipment necessary for the clearance of right-of-way excavating, trenching, and backfilling, the continual drainage of excavation, sheeting, bracing, and shoring of sides of excavation, backfilling around structures and over pipelines, and disposal of excess excavated materials.

2. Classification of Excavated Materials.

All excavation on this project shall be unclassified. No separate or extra payment shall be made for rock or other materials encountered in excavation for the water line.

The Contractor shall, before submitting a Proposal, satisfy himself as to the trenching conditions and the type of materials to be encountered. The price bid for the various items in the proposal shall include the excavation, trenching and backfill as specified herein regardless of the type of materials encountered in the excavation or trenching.

3. Trenching

3.1 Construction Methods

The trench shall be excavated to the required line and grade and only so far in advance of the work that all pipe may be placed in the trench and backfilled by the end of the day. Minimum cover on all lines shall be 30-inches unless otherwise specified. A minimum of 6-inch clearance shall be provided between the outside diameter of the force main and the trench wall, with the minimum trench width of 24-inches. Should the Contractor over excavate the trench, the trench bottom shall be backfilled and compacted to establish a uniform line and grade.

3.2 Rock Excavation

Where rock is encountered, it shall be removed to a depth of at least 6-inches below grade and the trench backfilled with granular bedding material or excavated material free of stones.

4. Trench Backfill

4.1 Pipe Embedment

All pipe embedment material including bedding material below the bottom of the pipe shall be placed as shown on the plans. Pipe embedment material shall extend upward to a distance of 6-inches above the top of the

pipe. All pipe embedment for PVC pipe shall be Class C as shown on the plans

Excavated material, free of rocks and large clods, may be used for backfill of the trench.

After each pipe has been graded, aligned and placed in final position on the bedding material, and shoved home, sufficient pipe embedment material shall be deposited and compacted under and around each side of the pipe and back of the bell or end thereof to maintain the pipe in proper position and alignment during subsequent pipe jointing, embedment and backfilling operations.

Pipe embedment material shall be deposited in the trench in such a manner that it is scattered along the sides of the pipe and not dropped in a compacted mass. Such material shall be placed and compacted uniformly and simultaneously on each side of the pipe in order to prevent lateral displacement of the pipe.

4.2 Granular Fill

Granular material for pipe embedment or trench bottom leveling shall consist of crushed stone, pea gravel, or other sandy or granular material approved by the Engineer. All granular bedding material shall be loosely poured or scattered into the trench, to a maximum depth of 12-inches at any point, before spreading or leveling. When deposited in the trench, granular fill material beneath the pipe shall be spread and graded to provide a uniform and continuous support for the installed pipe at all points along the pipe.

4.3 Backfill Above Pipe Embedment

The backfill above the pipe embedment may consist of excavated material for portions of the pipeline outside areas to be paved. Compact masses of stiff, mucky clay, or gumbo, or other consolidated material and roots, brush, waste concrete, debris shall not be allowed in the trench backfill.

4.3.1 Tamped Backfill

Tamped backfill shall be used under all areas to be paved or all areas within crossings of existing streets.

Tamped backfill material shall be placed in 6-inch lifts at or above optimum moisture content and compacted to 95% of Standard Proctor Density.

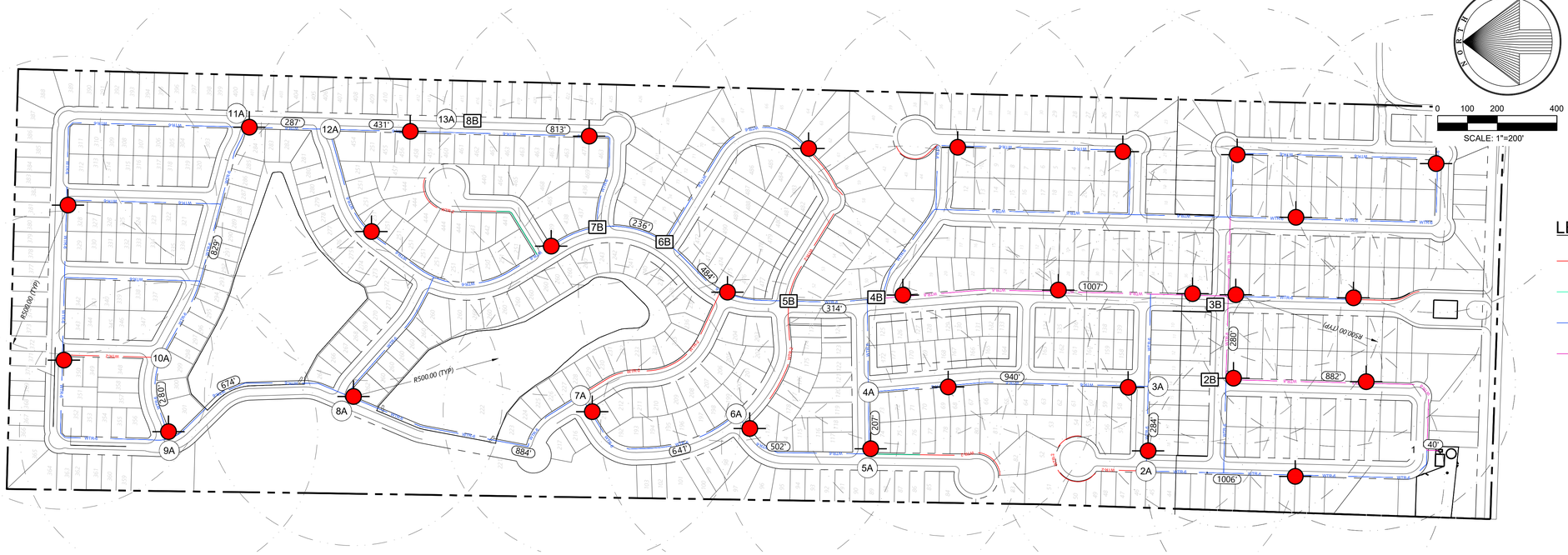
5. Safety

5.1 Trench Safety

Trench safety shall be the responsibility of the Contractor. OSHA standards, as a minimum, shall be met.

5.2 Traffic Control

The Contractor shall be responsible for the placing of all barricades, lights, and barriers for the protection of the work site. All signing shall be in accordance with the current Manual of Uniform Traffic Control Devices issued by the State Department of Highways and Public Transportation.



0 100 200 400

SCALE: 1"=200'

LEGEND

- = 2" WATER LINE
- = 4" WATER LINE
- = 6" WATER LINE
- = 8" WATER LINE
- 1006' = LENGTH
- = NODE POINTS ROUTE 1
- = NODE POINTS ROUTE 2
- = FIRE HYDRANT

ROCK CREEK WEST - WATER MASTERPLAN

ULTIMATE DISTRIBUTION LINES, DOMESTIC FLOWS

REMOTE, HIGHEST LOT # 415 .ELEVATION 791 — WATER WELL ELEV. 830.

C1 = 110

NODE	LOTS SERVED	PROPOSED LOTS	L	D	FLOW FACTOR	GROWTH FACTOR	OCCUPANCY FACTOR	DOMESTIC	FIRE	Q(GPM)	Q(CFS)	C1	HEAD LOSS	VELOCITY
1	0	700	40	8	2	2	1	1400	0	1561	3.48	110	2.29	9.99
	PATH 'A'													
2A	0	350	1006	6	2	2	1	700	0	539	1.20	110	32.64	6.14
3A	0	298	284	6	2	2	1	596	0	435	0.97	110	6.20	4.96
4A	0	262	940	6	2	2	1	524	0	363	0.81	110	14.68	4.14
5A	0	250	207	6	2	2	1	500	0	339	0.76	110	2.85	3.86
6A	0	221	502	6	2	2	1	442	0	281	0.63	110	4.88	3.20
7A	0	207	641	6	2	2	1	414	0	253	0.56	110	5.13	2.88
8A	0	183	884	6	2	2	1	366	0	205	0.46	110	4.80	2.34
9A	0	167	674	6	2	2	1	334	0	173	0.39	110	2.67	1.97
10A	0	140	280	6	2	2	1	280	0	119	0.27	110	0.56	1.36
11A	0	81	829	6	2	2	1	162	0	1	0.00	110	0.00	0.01
12A	0	22	287	6	2	2	1	44	0	-117	-0.26	110	0.55	1.33
13A	0	16	357	6	2	2	1	32	0	-129	-0.29	110	0.82	1.47
	PATH 'A' TOTALS		6891									TOTAL ALTERNATE ROUTE	75.78	
					EQUALIZATION FLOW		-161							
	PATH 'B'													
2B	0	350	882	8	2	2	1	700	0	861	1.92	110	16.77	5.51
3B	0	312	280	8	2	2	1	624	0	785	1.75	110	4.49	5.03
4B	0	255	1007	8	2	2	1	510	0	671	1.50	110	12.07	4.30
5B	0	214	314	6	2	2	1	428	0	589	1.31	110	12.01	6.71
6B	0	130	484	6	2	2	1	260	0	421	0.94	110	9.94	4.80
7B	0	117	236	6	2	2	1	234	0	395	0.88	110	4.31	4.50
8B	0	114	888	6	2	2	1	228	0	389	0.87	110	15.76	4.43
	PATH 'B' TOTALS		4091									TOTAL ALTERNATE ROUTE	75.34	
	STATIC HEAD												-39	
	TOTAL DYNAMIC HEAD (FEET)												39.06	
	PRESSURE AT TANK TO MAINTAIN 40psi RESIDUAL LINE PRESSURE												57.47	

C1 = 140

NODE	LOTS SERVED	PROPOSED LOTS	L	D	FLOW FACTOR	GROWTH FACTOR	OCCUPANCY FACTOR	DOMESTIC	FIRE	Q(GPM)	Q(CFS)	C1	HEAD LOSS	VELOCITY
1	0	700	40	8	2	2	1	1400	0	1561	3.478163993	140	1.46	9.99
	PATH 'A'													
2A	0	350	1006	6	2	2	1	700	0	539	1.20	140	20.89	6.14
3A	0	298	284	6	2	2	1	596	0	435	0.97	140	3.97	4.96
4A	0	262	940	6	2	2	1	524	0	363	0.81	140	9.40	4.14
5A	0	250	207	6	2	2	1	500	0	339	0.76	140	1.82	3.86
6A	0	221	502	6	2	2	1	442	0	281	0.63	140	3.12	3.20
7A	0	207	641	6	2	2	1	414	0	253	0.56	140	3.29	2.88
8A	0	183	884	6	2	2	1	366	0	205	0.46	140	3.07	2.34
9A	0	167	674	6	2	2	1	334	0	173	0.39	140	1.71	1.97
10A	0	140	280	6	2	2	1	280	0	119	0.27	140	0.36	1.36
11A	0	81	829	6	2	2	1	162	0	1	0.00	140	0.00	0.01
12A	0	22	287	6	2	2	1	44	0	-117	-0.26	140	0.35	1.34
13A	0	16	357	6	2	2	1	32	0	-129	-0.29	140	0.53	1.47
	PATH 'A' TOTALS		6891									TOTAL ALTERNATE ROUTE	48.50	
					EQUALIZATION FLOW		-161							
	PATH 'B'													
2B	0	350	882	8	2	2	1	700	0	861	1.92	140	10.73	5.52
3B	0	312	280	8	2	2	1	624	0	785	1.75	140	2.87	5.03
4B	0	255	1007	8	2	2	1	510	0	671	1.50	140	7.73	4.30
5B	0	214	314	6	2	2	1	428	0	589	1.31	140	7.68	6.71
6B	0	130	484	6	2	2	1	260	0	421	0.94	140	6.36	4.80
7B	0	117	236	6	2	2	1	234	0	395	0.88	140	2.76	4.50
8B	0	114	888	6	2	2	1	228	0	389	0.87	140	10.09	4.43
	PATH 'B' TOTALS		4091									TOTAL ALTERNATE ROUTE	48.23	
	STATIC HEAD												-39	
	TOTAL DYNAMIC HEAD (FEET)												10.97	
	PRESSURE AT TANK TO MAINTAIN 40psi RESIDUAL LINE PRESSURE												44.91	

ROCK CREEK WEST - WATER MASTERPLAN

ULTIMATE DISTRIBUTION LINES, EMERGENCYFLOWS

REMOTE, HIGHEST LOT # 415 .ELEVATION 791 — WATER WELL ELEV. 830.

C1 = 110

NODE	LOTS SERVED	PROPOSED LOTS	L	D	FLOW FACTOR	GROWTH FACTOR	OCCUPANCY FACTOR	DOMESTIC	FIRE	Q(GPM)	Q(CFS)	C1	HEAD LOSS	VELOCITY
1	0	700	40	8	1.5	2	1	1050	250	1196	2.66	110	1.40	7.66
	PATH 'A'													
2A	0	350	1006	6	1.5	2	1	525	125	504	1.12	110	28.83	5.74
3A	0	298	284	6	1.5	2	1	447	125	426	0.95	110	5.96	4.85
4A	0	262	940	6	1.5	2	1	393	125	372	0.83	110	15.36	4.24
5A	0	250	207	6	1.5	2	1	375	125	354	0.79	110	3.09	4.03
6A	0	221	502	6	1.5	2	1	331.5	125	310.5	0.69	110	5.87	3.54
7A	0	207	641	6	1.5	2	1	310.5	125	289.5	0.65	110	6.59	3.30
8A	0	183	884	6	1.5	2	1	274.5	125	253.5	0.56	110	7.10	2.89
9A	0	167	674	6	1.5	2	1	250.5	125	229.5	0.51	110	4.51	2.62
10A	0	140	280	6	1.5	2	1	210	125	189	0.42	110	1.31	2.16
11A	0	81	829	6	1.5	2	1	121.5	125	100.5	0.22	110	1.20	1.15
12A	0	22	287	6	1.5	2	1	33	125	12	0.03	110	0.01	0.14
13A	0	16	357	6	1.5	2	1	24	125	3	0.01	110	0.00	0.03
	PATH 'A' TOTALS		6891									TOTAL ALTERNATE ROUTE	79.82	
					EQUALIZATION FLOW		-146							
	PATH 'B'													
2B	0	350	882	8	1.5	2	1	525	125	796	1.77	110	14.50	5.10
3B	0	312	280	8	1.5	2	1	468	125	739	1.65	110	4.01	4.73
4B	0	255	1007	8	1.5	2	1	382.5	125	653.5	1.46	110	11.50	4.19
5B	0	214	314	6	1.5	2	1	321	125	592	1.32	110	12.12	6.74
6B	0	130	484	6	1.5	2	1	195	125	466	1.04	110	12.00	5.31
7B	0	117	236	6	1.5	2	1	175.5	125	446.5	0.99	110	5.41	5.09
8B	0	114	888	6	1.5	2	1	171	125	442	0.98	110	19.96	5.04
	PATH 'B' TOTALS		4091									TOTAL ALTERNATE ROUTE	79.49	
	STATIC HEAD												-39	
	TOTAL DYNAMIC HEAD (FEET)												42.22	
	PRESSURE AT TANK TO MAINTAIN 20psi RESIDUAL LINE PRESSURE												38.88	

C1 = 140

NODE	LOTS SERVED	PROPOSED LOTS	L	D	FLOW FACTOR	GROWTH FACTOR	OCCUPANCY FACTOR	DOMESTIC	FIRE	Q(GPM)	Q(CFS)	C1	HEAD LOSS	VELOCITY
1	0	700	40	8	1.5	2	1	1050	250	1196	2.66	140	0.89	7.66
	PATH 'A'													
2A	0	350	1006	6	1.5	2	1	525	125	504	1.12	140	18.45	5.74
3A	0	298	284	6	1.5	2	1	447	125	426	0.95	140	3.82	4.85
4A	0	262	940	6	1.5	2	1	393	125	372	0.83	140	9.83	4.24
5A	0	250	207	6	1.5	2	1	375	125	354	0.79	140	1.98	4.03
6A	0	221	502	6	1.5	2	1	331.5	125	310.5	0.69	140	3.76	3.54
7A	0	207	641	6	1.5	2	1	310.5	125	289.5	0.65	140	4.22	3.30
8A	0	183	884	6	1.5	2	1	274.5	125	253.5	0.56	140	4.55	2.89
9A	0	167	674	6	1.5	2	1	250.5	125	229.5	0.51	140	2.88	2.62
10A	0	140	280	6	1.5	2	1	210	125	189	0.42	140	0.84	2.16
11A	0	81	829	6	1.5	2	1	121.5	125	100.5	0.22	140	0.77	1.15
12A	0	22	287	6	1.5	2	1	33	125	12	0.03	140	0.01	0.14
13A	0	16	357	6	1.5	2	1	24	125	3	0.01	140	0.00	0.03
	PATH 'A' TOTALS		6891									TOTAL ALTERNATE ROUTE	51.09	
					EQUALIZATION FLOW		-146							
	PATH 'B'													
2B	0	350	882	8	1.5	2	1	525	125	796	1.77	140	9.28	5.10
3B	0	312	280	8	1.5	2	1	468	125	739	1.65	140	2.57	4.73
4B	0	255	1007	8	1.5	2	1	382.5	125	653.5	1.46	140	7.36	4.19
5B	0	214	314	6	1.5	2	1	321	125	592	1.32	140	7.76	6.74
6B	0	130	484	6	1.5	2	1	195	125	466	1.04	140	7.68	5.31
7B	0	117	236	6	1.5	2	1	175.5	125	446.5	0.99	140	3.46	5.09
8B	0	114	888	6	1.5	2	1	171	125	442	0.98	140	12.78	5.04
	PATH 'B' TOTALS		4091									TOTAL ALTERNATE ROUTE	50.88	
	STATIC HEAD												-39	
	TOTAL DYNAMIC HEAD (FEET)												12.99	
	PRESSURE AT TANK TO MAINTAIN 20psi RESIDUAL LINE PRESSURE												25.81	

Made in Texas

REV. 5
REV. 4
REV. 3
REV. 2
REV. 1

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ae-grp.com

Texas Board of
Professional Engineers
Registration Number: F-7898

info@ae-grp.com

Allison Engineering Group

GE 48294 REGISTERED PROFESSIONAL ENGINEER — 2025/02/07

Drawn by: FCM
Checked by: GE

DOUBLE DIAMOND COMPANY
CONSTRUCTION PLANS
ROCK CREEK WEST
LAKE TEXOMA, COOKE COUNTY, TEXAS

APPENDIX A: MASTER WATER PLAN

Job: DDS2301

SHEET
REPORT

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TEMPORARY PUBLIC WASTEWATER TREATMENT

Construction Plans

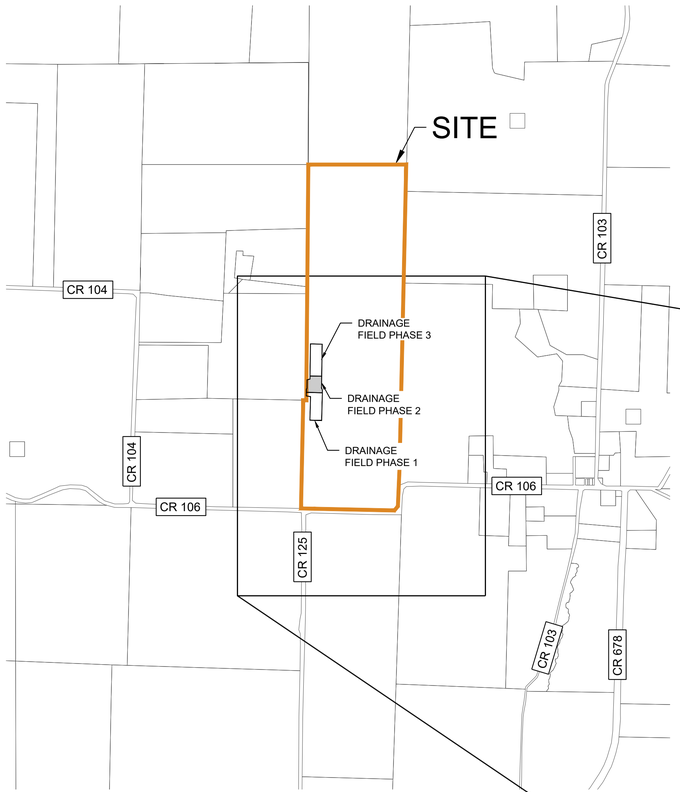
FOR

ROCK CREEK WEST

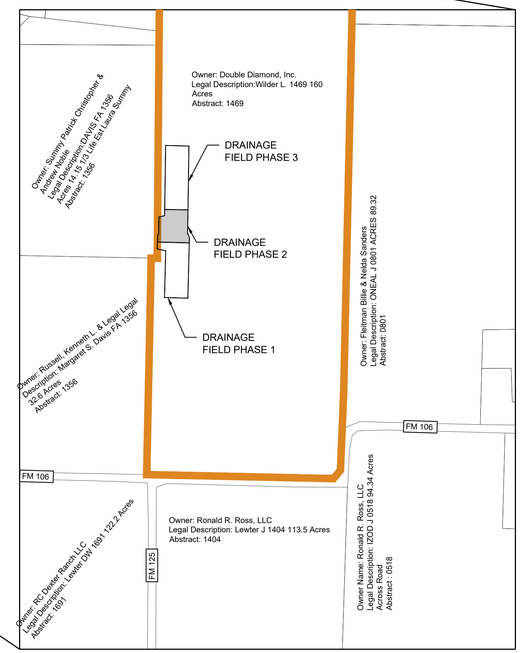
GRAYSON COUNTY, TEXAS

A. T. GAYLE, ABSTRACT NO. 445

FEBRUARY 2025



CONTENTS



OWNER:
DOUBLE DIAMOND COMPANIES
12720 HILLCREST RD., SUITE 400
DALLAS, TX 75230
214-706-7857

SURVEYOR:
WESTWOOD PROFESSION SERVICES, INC
2770 DALLAS PARKWAY, SUITE 280
PLANO, TX 75093
PHONE: 214.472.4640

ENGINEER:
ALLISON ENGINEERING GROUP
2415 N. ELM STREET
PHONE: (940) 380-9453
TBPE FIRM REG # 7898
CONTACT: GREG K. EDWARDS, P.E.

Texas 811 Know what's below. Call before you dig.

REV. 5
REV. 4
REV. 3
REV. 2
REV. 1

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Registration Number: F-7898

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STATE OF TEXAS · G.K. EDWARDS · 48204 · LICENSED PROFESSIONAL ENGINEER · 2025/02/05

Drawn by: RLB
Checked by: GE

DOUBLE DIAMOND COMPANY
ROCK CREEK WEST
LAKE TEXOMA, COOKE COUNTY, TEXAS

COVER

Job: DDS2401

SHEET
01

Made in Texas

Plotted By: Roger Russell
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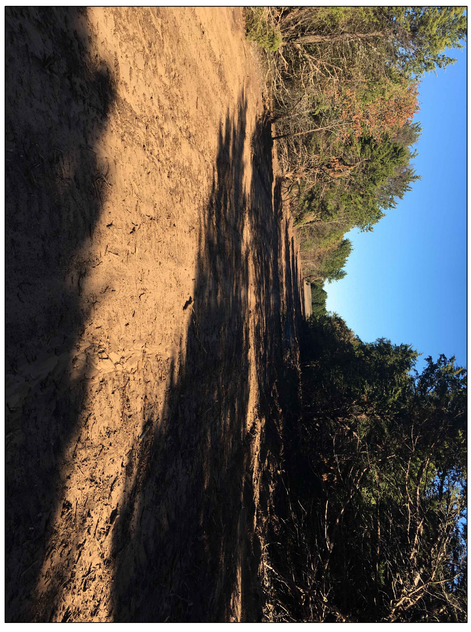

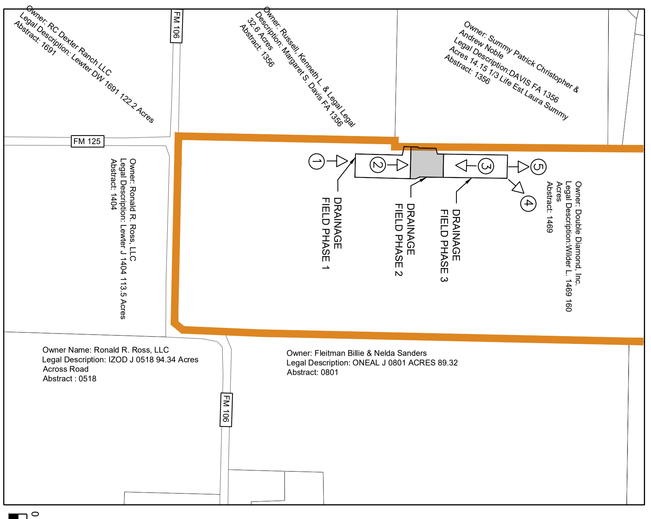

Know what's below. Call before you dig.

DOUBLE DIAMOND COMPANY
ROCK CREEK WEST
LAKE TEXOMA, COOKE COUNTY, TEXAS

ORIGINAL PHOTOGRAPHS

Job: DDS2301
SHEET

Drawn by: R.B.
Checked by: G.E.

STATE OF TEXAS
G.K. EDWARDS
48294
REGISTERED
PROFESSIONAL ENGINEER
2025/02/03

Allison Engineering Group
Planning Communities - Designing the Systems That Serve Them
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DENTON, TEXAS 76201
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ae-grp.com
Texas Board of Professional Engineers Registration Number: F-7898
info@ae-grp.com

REV. 1	REV. 2	REV. 3	REV. 4	REV. 5

LEGEND

- CRITICAL LOT ROUTE, PHASE 1
- CRITICAL LOT ROUTE, PHASE 2
- 2" FORCE MAIN
- 3" FORCE MAIN
- PROPOSED 50' DRAINFIELD FIELD BUFFER
- FUTURE SEWER TREATMENT PLANT
- NODE POINTS ROUTE 1
- NODE POINTS ROUTE 2
- 'A' SOILS
- 'B' SOILS
- 'C' SOILS
- 'D' SOILS

NOTE: NODES ARE CALCULATION POINTS EVALUATED IN CALCULATIONS INCLUDED IN THE ENGINEER'S REPORT.

REV. 5
REV. 4
REV. 3
REV. 2
REV. 1

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STATE OF TEXAS
G.K. EDWARDS
48284
LICENSED
PROFESSIONAL
ENGINEER
2025/02/03

Drawn by: RLB
Checked by: GE

DOUBLE DIAMOND COMPANY
ROCK CREEK WEST
LAKE TEXOMA, COOKE COUNTY, TEXAS

OVERALL PLAN EXHIBIT

Job: DDS2301

SHEET
03

Made in Texas

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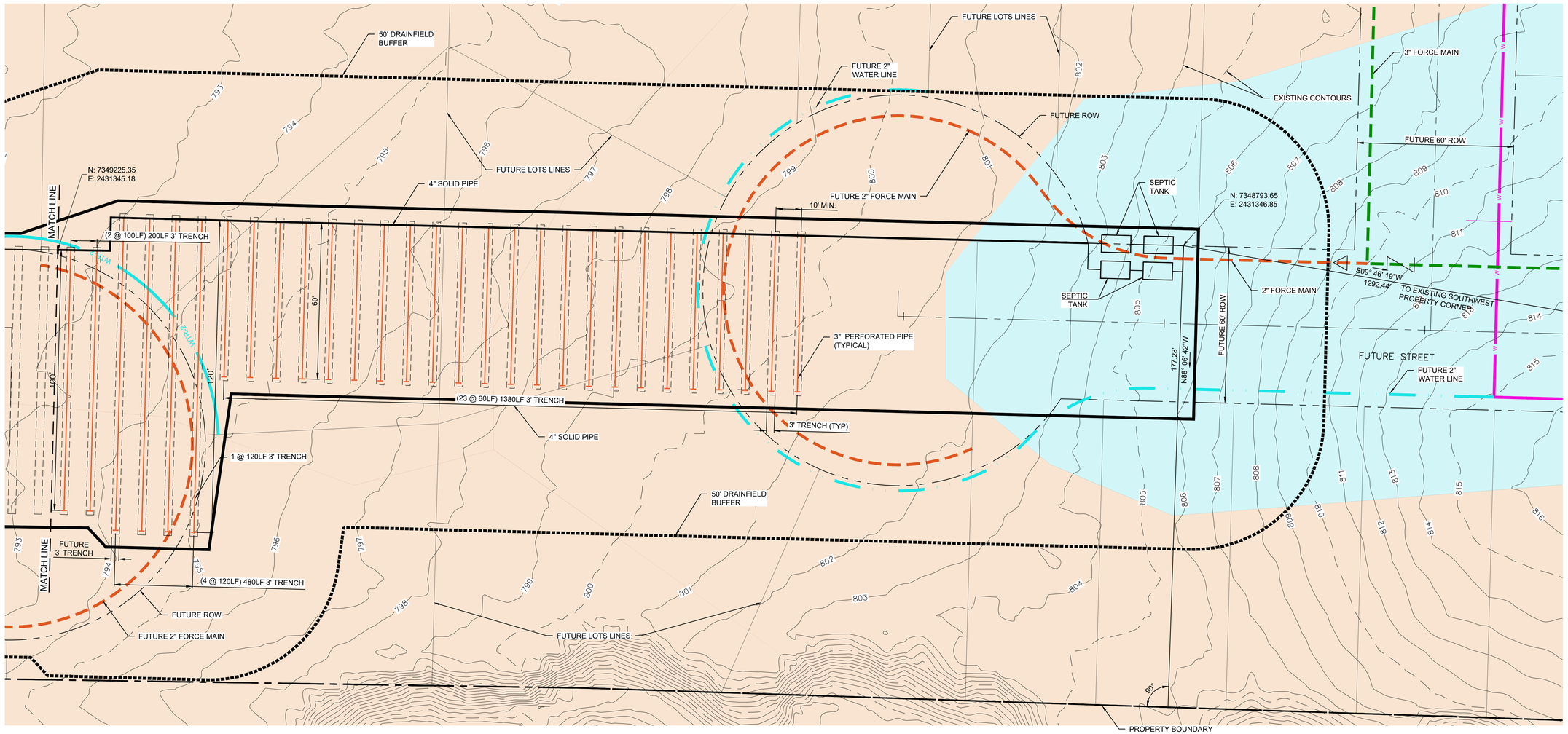

NORTH

0 10 20 40

SCALE: 1"=20'

LEGEND

- 2 INCH FORCE MAIN
- 3 INCH FORCE MAIN
- 'A' SOILS
- 'B' SOILS
- 'C' SOILS
- 'D' SOILS

PHASE 1 SYSTEM CAPACITY
2,575 GAL/DAY

TANK CAPACITY Q = 8,000 GAL V = 1750 + 0.75Q
ALLOWABLE FLOW Q = 8,333 GAL/DAY

PHASE 1 - 2,060 LF

LINE CAPACITY Q = 1.25 GAL/ LF * 2060 = 2,575 GAL/DAY

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REV. 5
REV. 4
REV. 3
REV. 2
REV. 1

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Planning Communities - Designing the Systems That Serve Them

GX. EDWARDS 48284 REGISTERED PROFESSIONAL ENGINEER STATE OF TEXAS
2025/02/03

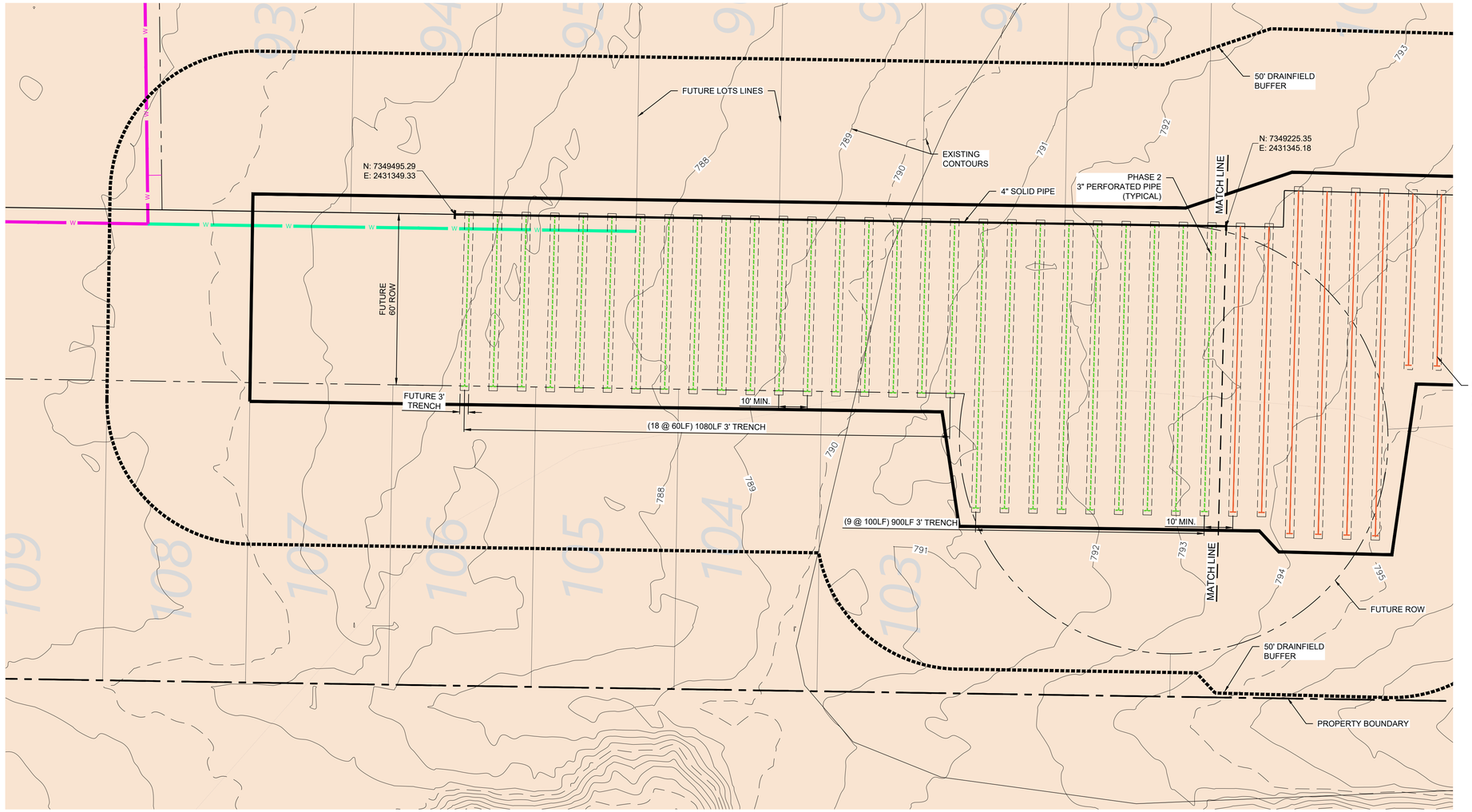
Drawn by: RLB
Checked by: GE

DOUBLE DIAMOND COMPANY
ROCK CREEK WEST
LAKE TEXOMA, COOKE COUNTY, TEXAS

PHASE 1

Job: DDS2401

SHEET
04



0 10 20 40

SCALE: 1"=20'

LEGEND

- 2 INCH FORCE MAIN
- 3 INCH FORCE MAIN
- 'A' SOILS
- 'B' SOILS
- 'C' SOILS
- 'D' SOILS

PHASES 2 SYSTEM CAPACITY
5,050 GAL/ DAY

TANK CAPACITY Q = 8,000 GAL V = 1750 + 0.75Q
ALLOWABLE FLOW Q = 8,333 GAL/DAY

PHASE 1 - 2,060 LF 3' TRENCH
PHASE 2 - 1980 LF 3' TRENCH
TOTAL: 4,040

LINE CAPACITY Q = 1.25 GAL/ LF * 4,040 = 5,050 GALLONS/DAY

Made in Texas

REV. 5
REV. 4
REV. 3
REV. 2
REV. 1

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Allison Engineering Group

Planning Communities - Designing the Systems That Serve Them

GK. EDWARDS 48284 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS
2025/02/03

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DOUBLE DIAMOND COMPANY
ROCK CREEK WEST
LAKE TEXOMA, COOKE COUNTY, TEXAS

PHASE 2

Job: DDS2301
SHEET
05

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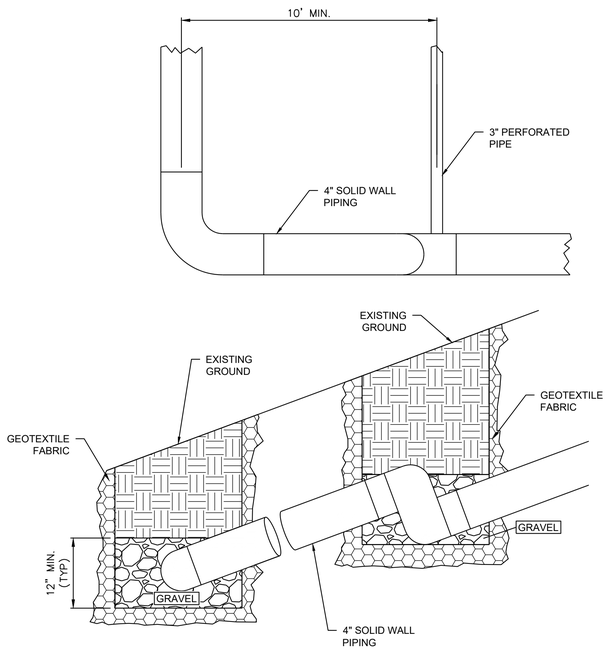
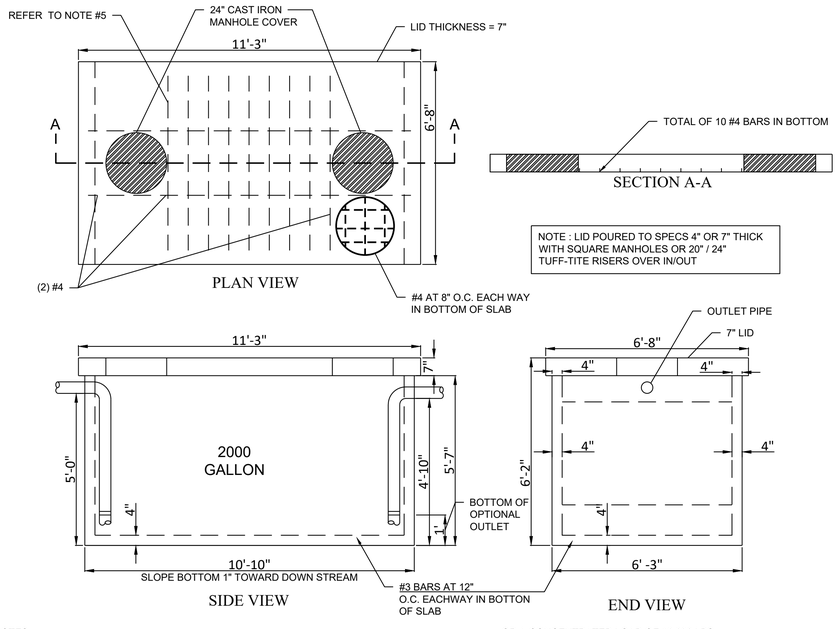


SINGLE PIPE DRAINFIELD ON SLOPING GROUND

N.T.S.

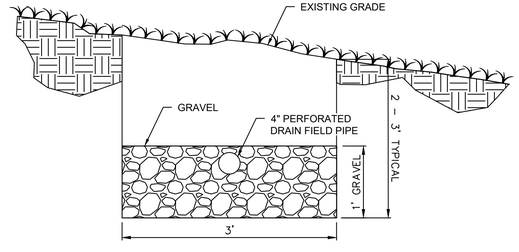


2000 GAL. SEPTIC TANK DETAIL

N.T.S.

NOTES

1. CONCRETE THICKNESS SHALL BE SHOWN.
2. CONCRETE STRENGTH = 6,000 PSI., THE WATER-CEMENT RATIO SHALL NOT EXCEED 0.45
3. REINFORCING SHALL BE GRADE 40 #3 OR #4 BARS AS SHOWN, PLUS FIBERMESH 300 POLYPROPYLENE FIBRILLATED FIBERS FOR SECONDARY REINFORCING.
4. WALL AND FLOOR REINFORCING SHALL BE PLACED AT THE CENTER OF THE MEMBERS, CEILING (LID) REINFORCING SHALL BE PLACED WITH CLEAR DISTANCE OF ¾" FROM BOTTOM OF THE SLAB. REBAR IN SHORT DIRECTION SHALL BE CLOSEST TO BOTTOM.
5. PROVIDE (2) #4 REBAR 2 INCHES FROM FACE OF ALL OPENINGS. EXTEND 12 INCHES PAST OPENING.
6. EXTEND 90 DEGREE BARS (DOWELS) FROM BOTTOM SLAB INTO WALLS. MATCH DOWEL BARS WITH SPACING OF BOTTOM SLAB BARS AND LAP 16 INCHES.
7. THE GREASE TRAP CEILING SLAB IS DESIGNED TO SUPPORT A UNIFORM LOAD OF 250 PSF OR A CONCENTRATED LOAD OF 16,000 LBS.
8. THE TOP OF THE TANK IS ASSUMED TO BE PLACED AT A MINIMUM OF 1'-8" AND A MAXIMUM OF 4'-0" FROM THE TOP OF THE SOIL.
9. ALL SOILS ADJACENT TO THE CONTAINERS SHALL BE GRADED SITE SOILS, PROPERLY COMPACTED IN UNIFORM LIFTS NOT TO EXCEED 8 INCHES.



DRAIN FIELD TRENCH DETAIL

N.T.S.

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REV. 5
REV. 4
REV. 3
REV. 2
REV. 1

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Allison Engineering Group

Planning Communities - Designing the Systems That Serve Them

STATE OF TEXAS
G.K. EDWARDS
4629M
LICENSED PROFESSIONAL ENGINEER
REGISTERED

2025/02/03

Drawn by: RLB
Checked by: GE

DOUBLE DIAMOND COMPANY
ROCK CREEK WEST
LAKE TEXOMA, COOKE COUNTY, TEXAS

DETAILS

Job: DDS2301

SHEET
06

NOTE: NODES ARE CALCULATION POINTS EVALUATED IN CALCULATIONS INCLUDED IN THE ENGINEER'S REPORT.

REV. 5
REV. 4
REV. 3
REV. 2
REV. 1

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Allison Engineering Group

Planning Communities - Designing the Systems That Serve Them

GK. EDWARDS 48284 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS
2025/02/03

Drawn by: RLB
Checked by: GE

DOUBLE DIAMOND COMPANY
ROCK CREEK WEST
LAKE TEXOMA, COOKE COUNTY, TEXAS

MASTER SEWER PLAN

Job: DDS2301

SHEET
REPORT

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2415 N. Elm Street
Denton, TX 76201
Office: 940.380.9453
Fax: 940.380.9431
www.ae-grp.com
TBPE Firm #: 7898

April 3, 2025

Texas Commission on Environmental Quality
Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441

Re: WQ0016728001 Double Diamond Properties Construction Co.

Dear Francesca Findlay:

The drainfield area has been modified to accommodate a 100-ft buffer for an intermittent tributary to Sycamore Creek surface water. An updated technical report and design calculation sheet is attached to reflect the modifications. Since our new design flow is still less than 0.05 MGD their will no amendments to the administrative report.

Please call me at (940) 391-8487 if you have any questions.

Respectfully Submitted,
Allison Engineering Group

Greg Edwards, P.E.

DESIGN CALCULATIONS

PHASE 1 SYSTEM CAPACITY

2,724.5 GALLONS PER DAY

8,000 GALLONS = V = 1,750 + 0.75 * Q_A

⇨ Q_A = 8,333 GALLONS PER DAY

PHASE 1 - 2,179.6 LF 3' TRENCH [29 QUANTITY * 73 LF 3' TRENCH + 1 QUANTITY * 62.6 LF 3' TRENCH]

0.0027 MGD = Q_{LC_1} **= 1.25 GALLONS / LF * 2,179.6 LF 3' TRENCH = 2,724.5 GALLONS / DAY = 364.24 FT^3 / DAY**

0.05 FT / DAY = DOSING AMOUNT PER AREA = Q_{LC_1} **÷ TRENCH AREA = 364.24 FT^3 / DAY ÷ 7196.2 FT^2**

PHASE 2 SYSTEM CAPACITY

5,385 GALLONS PER DAY

8,000 GALLONS = V = 1,750 + 0.75 * Q_A

⇨ Q_A = 8,333 GALLONS PER DAY

PHASE 2 - 4,308 LF 3' TRENCH [PHASE 1 + 34 QUANTITY * 62.6 LF 3' TRENCH]

0.0054 MGD = Q_{LC_2} **= 1.25 GALLONS / LF * 4,308 LF 3' TRENCH = 5,385 GALLONS / DAY = 719.92 FT^3 / DAY**

0.05 FT / DAY = DOSING AMOUNT PER AREA = Q_{LC_2} **÷ TRENCH AREA = 719.92 FT^3 / DAY ÷ 14,332.7 FT^2**

V = TANK VOLUME; LF = LINEAR FOOT; Q_A = ALLOWABLE FLOW

Q_{LC_1} = PHASE 1 LINE CAPACITY; Q_{LC_2} = PHASE 2 LINE CAPACITY

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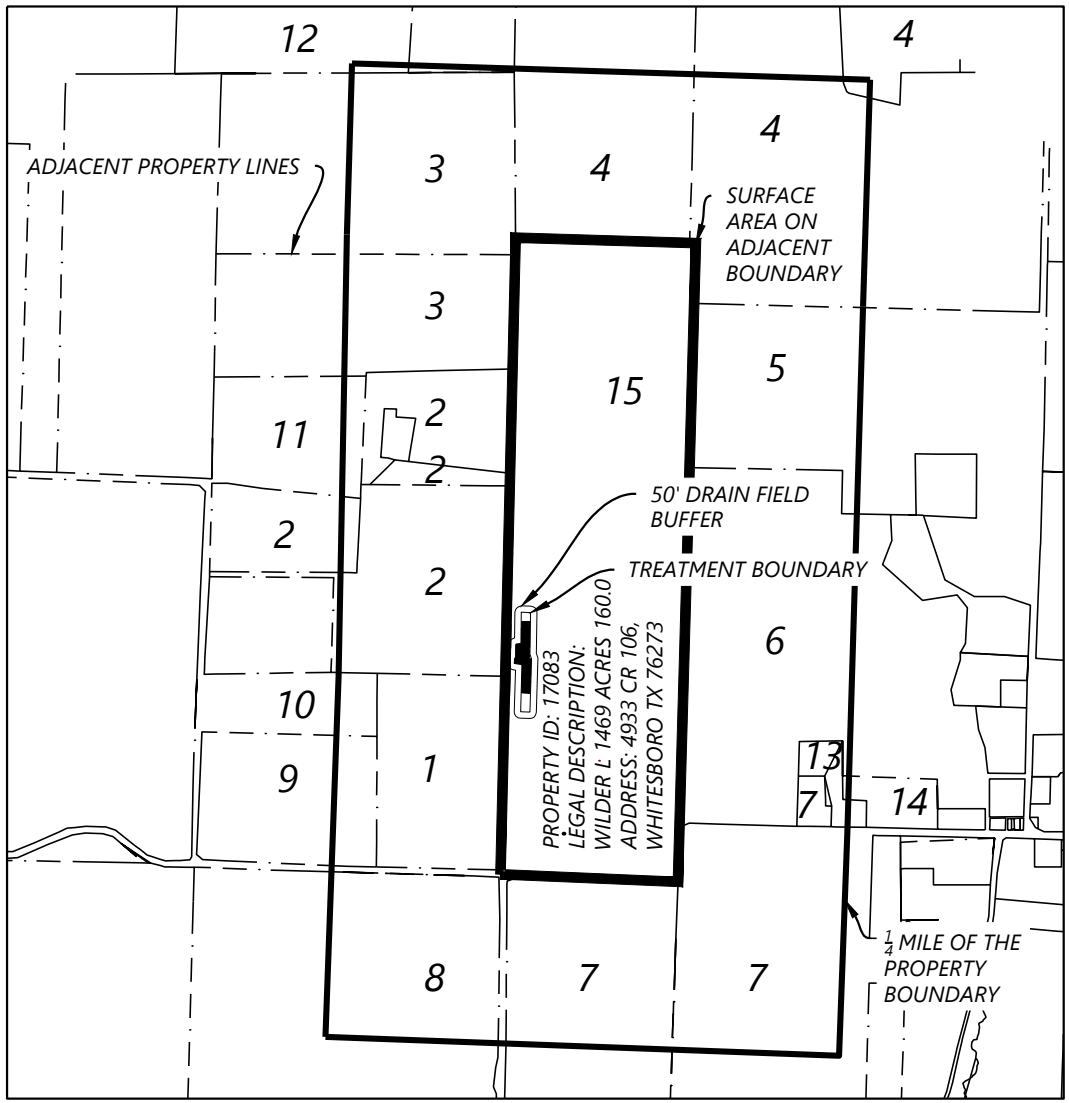

0 750 1500

SCALE: 1"=1500'

ADJACENT AND DOWNSTREAM LAND OWNERS
FOR
ROCK CREEK WEST

OWNER
DOUBLE DIAMOND INC,
12720 HILLCREST ROAD, SUITE 400
DALLAS, TEXAS 75230
PHONE (214) 706-9800

ENGINEER
ALLISON ENGINEERING GROUP, INC.
2415 N ELM ST
DENTON, TEXAS 76201
PHONE (940) 380-9453
TBPE REG. #: F-7898

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PREPARED DECEMBER, 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

The following information is required for all renewal, new, and amendment applications.

Section 1. Permitted or Proposed Flows (Instructions Page 43)

A. Existing/Interim I Phase

Design Flow (MGD): 0.0027245

2-Hr Peak Flow (MGD): .01

Estimated construction start date: June 2024

Estimated waste disposal start date: June 2025

B. Interim II Phase

Design Flow (MGD): .005385

2-Hr Peak Flow (MGD): .02

Estimated construction start date: 2030

Estimated waste disposal start date: 2030

C. Final Phase

Design Flow (MGD): .025

2-Hr Peak Flow (MGD): .1

Estimated construction start date: 2034

Estimated waste disposal start date: 2035

D. Current Operating Phase

Provide the startup date of the facility: June 2025

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

Provide a detailed description of the treatment process. **Include the type of treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and

finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed, a description of *each phase* must be provided.**

Initial phase to be a temporary subsurface disposal system, with tanks and drain fields. As connection increase drain fields will be added to accommodate growth within the system. It is not anticipated that the permanent aerobic package plant will be needed until 2035 or beyond.

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) **of each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Septic Tanks	4	10’ x 5’ x6’
Absorptive Drain Field	1	630’ x 73’ x 3’

C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.

Attachment: See Appendix {Flow Diagram}

Section 3. Site Information and Drawing (Instructions Page 44)

Provide the TPDES discharge outfall latitude and longitude. Enter N/A if not applicable.

- Latitude: N/A
- Longitude: N/A

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

- Latitude: N033° 49' 27.30"
- Longitude: W096° 58' 30.80"

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: See Appendix {Site Drawing}

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

The following is required for renewal, new, and amendment permit applications.

Section 1. Type of Disposal System (Instructions Page 68)

Identify the method of land disposal:

- ☐ Surface application
- ☐ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Other (describe in detail): Click to enter text.
- ☐ Subsurface application
- ☒ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: N/A

Section 2. Land Application Site(s) (Instructions Page 68)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Native Grasses (Pastureland)	0.329	0.25	N
Winter Ryegrass	0.329	0.25	N

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **does not meet** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

☒ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)

☐ Low Pressure Dosing

☐ Other, specify: Click to enter text.

Application area, in acres: Phase 1 = 0.84; Phase 2 = 1.41

Area of drainfield, in square feet: Phase 1 = 21520.6 ; Phase 2 = 42,771.4

Application rate, in gal/square foot/day: 0.25

Depth to groundwater, in feet: 20+

Area of trench, in square feet: Phase 1 = 7196.2 ; Phase 2 = 14,332.7

Dosing duration per area, in hours: 24

Number of beds: 1

Dosing amount per area, in inches/day: Phase 1 = 0.60 ; Phase 2 = 0.60

Infiltration rate, in inches/hour: 0.025

Storage volume, in gallons: 8,000

Area of bed(s), in square feet: Phase 1 = 21520.6 ; Phase 2 = 42,771.4

Soil Classification: sandy loam

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of *§* 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: See Appendix {Engineering Report}

Section 2. Edwards Aquifer (Instructions Page 74)

Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☒ No

Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☒ No

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

Francesca Findlay

From: Francesca Findlay
Sent: Friday, March 14, 2025 1:59 PM
To: gedwards@ae-grp.com
Cc: crotramel@ddresorts.com
Subject: WQ0016728001 Double Diamond Properties Construction Co.

Good afternoon,

I am working on your application I am in the process of admin. completing the application. I have a few questions.

1. The documents that I am reviewing have different daily average flows. Please verify the flow and provide updates documents.
2. Please verify the acres of the disposal site. And provide an updated document.

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality

Francesca Findlay

From: Francesca Findlay
Sent: Thursday, March 20, 2025 3:59 PM
To: Fernando Moreno
Cc: Project Folder; Greg Edwards
Subject: RE: WQ0016728001 Double Diamond Properties Construction Co.

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon,

I have spoken to one of our Permit Writers and this is what he sent me. Please let me know if you have any questions and I will do my best to answer them or send it to the Permit Writer to answer it.

So they just need to state the size of the drainfield as the acreage. They placed it in Worksheet 3.2 as 64,000 sq ft, so they can just repeat that but they also need to state that for each phase of the permit as well. Is the 64,000 sq for all the phases or are they going to increase it each phase? Also will that site be accessible to the public or will it be fenced off?

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality

From: Fernando Moreno <FMoreno@ae-grp.com>
Sent: Wednesday, March 19, 2025 11:46 AM
To: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Cc: Project Folder <pf@ae-grp.com>; Greg Edwards <gedwards@ae-grp.com>
Subject: RE: WQ0016728001 Double Diamond Properties Construction Co.

Good Morning Francesca Findlay,

Per our conversation via phone call my first concern was about where the application showed different average flows? The Final phase is predicted to be constructed 5+ years from now, therefore I was wondering what updates are needed for the first page on the technical report to get your approval.
My second concern was about Worksheet 3.0 Section 2 table, under the acres column it was filled 0 acres because the design is based on a subsurface gravity drain design, which should not rely on vegetation or evaporation for proper operation.

Regards,

Fernando C. Moreno, EIT
Allison Engineering Group
2415 N. Elm St.
Denton, TX 76201
P - 940-380-9453
ae-grp.com

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Tuesday, March 18, 2025 10:37 AM
To: Fernando Moreno <FMoreno@ae-grp.com>
Cc: Project Folder <pf@ae-grp.com>; Greg Edwards <gedwards@ae-grp.com>
Subject: RE: WQ0016728001 Double Diamond Properties Construction Co.

Good morning,

The administrative Report will need to be updated if the flow different.
The Application fee will need to be updated if the flow is different.
The Technical report 1.0 Final Phase will need to be updated if it is incorrect.
The Worksheet 3.0 Section 2 please update the acres of the disposal site and please provide updated documents.

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division

512-239-2441
Texas Commission on Environmental Quality

Please consider whether it is necessary to print this e-mail

How is our customer service? Fill out our online customer satisfaction survey at http://www.tceq.texas.gov/customersurvey.

From: Fernando Moreno <FMoreno@ae-grp.com>
Sent: Monday, March 17, 2025 4:27 PM
To: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Cc: Project Folder <pf@ae-grp.com>; Greg Edwards <gedwards@ae-grp.com>
Subject: RE: WQ0016728001 Double Diamond Properties Construction Co.

1. The documents that I am reviewing have different daily average flows. Please verify the flow and provide updates documents.
2. Please verify the acres of the disposal site. And provide an updated document.

Good Afternoon Francesca Findlay,

I don't know what page specifically needs to be updated to address the above questions. Is it in the administrative report, the technical report, or an exhibit?

Regards,

Fernando C. Moreno, EIT
Allison Engineering Group
2415 N. Elm St.
Denton, TX 76201
P - 940-380-9453
ae-grp.com

From: Greg Edwards <gedwards@ae-grp.com>
Sent: Monday, March 17, 2025 10:56 AM
To: Fernando Moreno <FMoreno@ae-grp.com>
Subject: FW: WQ0016728001 Double Diamond Properties Construction Co.

Thank you for your time,

Greg Edwards
Allison Engineering Group
2415 N. Elm St.,
Denton, TX 76201
P - 940-380-9453
www.ae-grp.com

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Friday, March 14, 2025 1:59 PM
To: Greg Edwards <gedwards@ae-grp.com>
Cc: crotramel@ddresorts.com
Subject: WQ0016728001 Double Diamond Properties Construction Co.

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Thank you,

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License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality

Francesca Findlay

From: Fernando Moreno <FMoreno@ae-grp.com>
Sent: Thursday, April 3, 2025 5:02 PM
To: Francesca Findlay
Cc: Project Folder; Greg Edwards
Subject: Re: WQ0016728001 Double Diamond Properties Construction Co.
Attachments: Cover Letter Reponse.pdf; Design Calculations.pdf; Technical Report Page 1.pdf; Technical Report Page 2.pdf; Technical Report Page 31.pdf; Technical Report Page 39_ Worksheet 3.2.pdf

Good Afternoon Francesca Findlay,

The drainfield area has been modified to accommodate a 100-ft buffer for an intermittent tributary to Sycamore Creek surface water. An updated technical report and design calculation sheet is attached to reflect the modifications. Since our new design flow is still less than 0.05 MGD their will no amendments to the administrative report.

The site is a resort community that has a gated entrance, hence the temporary facility site will not be access to the public.

Regards,

Fernando C. Moreno, EIT
Allison Engineering Group
2415 N. Elm St.
Denton, TX 76201
P - 940-380-9453
ae-grp.com

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Thursday, March 20, 2025 3:58 PM
To: Fernando Moreno <FMoreno@ae-grp.com>
Cc: Project Folder <pf@ae-grp.com>; Greg Edwards <gedwards@ae-grp.com>
Subject: RE: WQ0016728001 Double Diamond Properties Construction Co.

Good afternoon,

I have spoken to one of our Permit Writers and this is what he sent me. Please let me know if you have any questions and I will do my best to answer them or send it to the Permit Writer to answer it.

So they just need to state the size of the drainfield as the acreage. They placed it in Worksheet 3.2 as 64,000 sq ft, so they can just repeat that but they also need to state that for each phase of the permit as well. Is the 64,000 sq for all the phases or are they going to increase it each phase? Also will that site be accessible to the public or will it be fenced off?

Thank you,

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License & Permit Specialist
ARP Team | Water Quality Division
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Texas Commission on Environmental Quality

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Subject: RE: WQ0016728001 Double Diamond Properties Construction Co.

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The Worksheet 3.0 Section 2 please update the acres of the disposal site and please provide updated documents.

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License & Permit Specialist
ARP Team | Water Quality Division
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Texas Commission on Environmental Quality

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2. Please verify the acres of the disposal site. And provide an updated document.

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality

Allison Engineering Group
Planning Communities - Designing the Systems That Serve Them

2415 N. Elm Street
Denton, TX 76201
Office: 940.380.9453
Fax: 940.380.9431
www.ae-grp.com
TBPE Firm #: 7898

April 3, 2025

Texas Commission on Environmental Quality
Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441

Re: WQ0016728001 Double Diamond Properties Construction Co.

Dear Francesca Findlay:

The drainfield area has been modified to accommodate a 100-ft buffer for an intermittent tributary to Sycamore Creek surface water. An updated technical report and design calculation sheet is attached to reflect the modifications. Since our new design flow is still less than 0.05 MGD their will no amendments to the administrative report.

Please call me at (940) 391-8487 if you have any questions.

Respectfully Submitted,
Allison Engineering Group

Greg Edwards, P.E.

DESIGN CALCULATIONS

PHASE 1 SYSTEM CAPACITY

2,724.5 GALLONS PER DAY

8,000 GALLONS = V = 1,750 + 0.75 * Q_A

⇨ Q_A = 8,333 GALLONS PER DAY

PHASE 1 - 2,179.6 LF 3' TRENCH [29 QUANTITY * 73 LF 3' TRENCH + 1 QUANTITY * 62.6 LF 3' TRENCH]

0.0027 MGD = Q_{LC_1} **= 1.25 GALLONS / LF * 2,179.6 LF 3' TRENCH = 2,724.5 GALLONS / DAY = 364.24 FT^3 / DAY**

0.05 FT / DAY = DOSING AMOUNT PER AREA = Q_{LC_1} **÷ TRENCH AREA = 364.24 FT^3 / DAY ÷ 7196.2 FT^2**

PHASE 2 SYSTEM CAPACITY

5,385 GALLONS PER DAY

8,000 GALLONS = V = 1,750 + 0.75 * Q_A

⇨ Q_A = 8,333 GALLONS PER DAY

PHASE 2 - 4,308 LF 3' TRENCH [PHASE 1 + 34 QUANTITY * 62.6 LF 3' TRENCH]

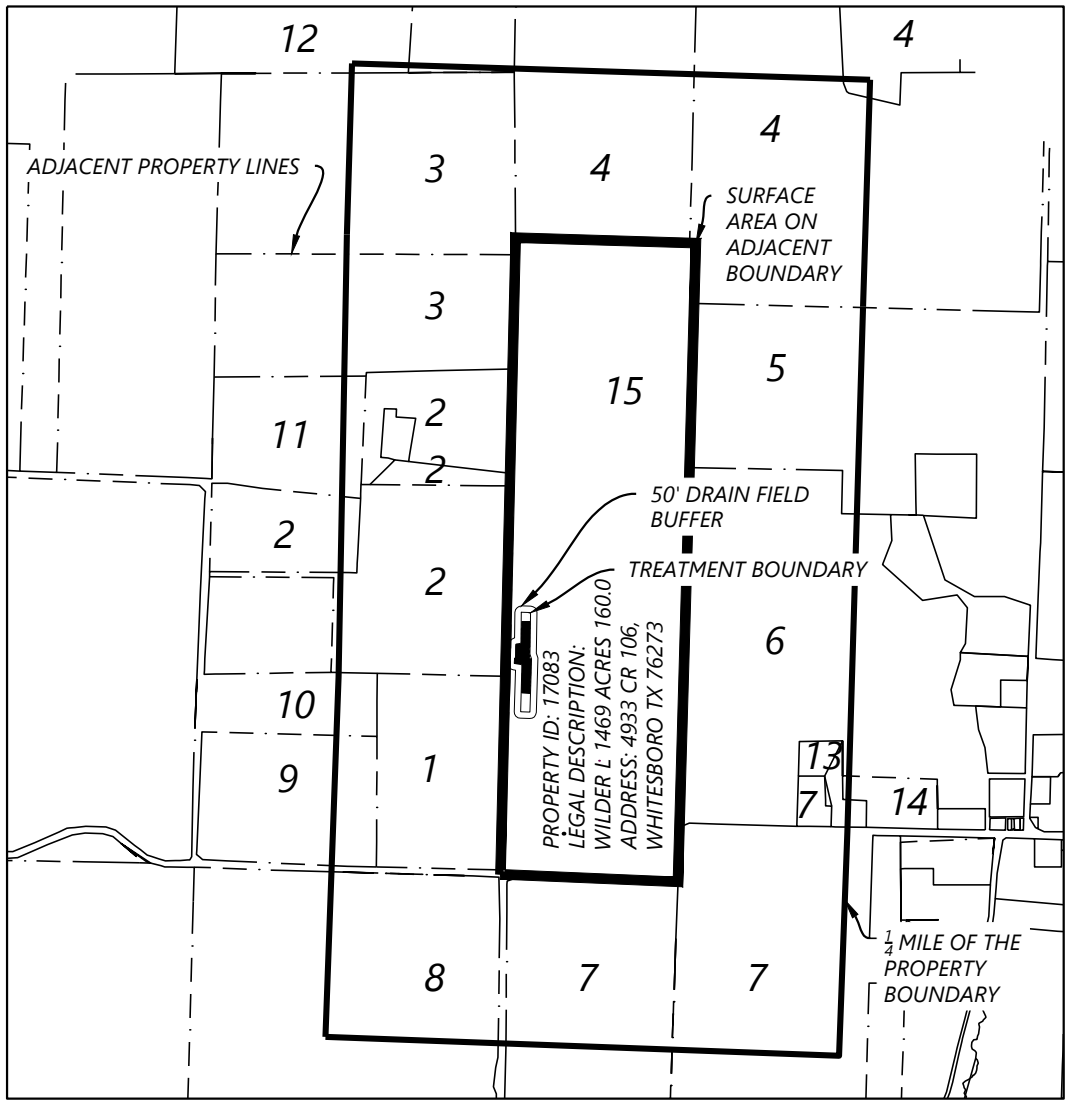
0.0054 MGD = Q_{LC_2} **= 1.25 GALLONS / LF * 4,308 LF 3' TRENCH = 5,385 GALLONS / DAY = 719.92 FT^3 / DAY**

0.05 FT / DAY = DOSING AMOUNT PER AREA = Q_{LC_2} **÷ TRENCH AREA = 719.92 FT^3 / DAY ÷ 14,332.7 FT^2**

V = TANK VOLUME; LF = LINEAR FOOT; Q_A = ALLOWABLE FLOW

Q_{LC_1} = PHASE 1 LINE CAPACITY; Q_{LC_2} = PHASE 2 LINE CAPACITY

File Name: P:\Projects\DDS2301 - 158 Acres Cooke Co\DWG\TCEQ\SEWER\PBASE-UTILITY.dwg



0 750 1500

SCALE: 1"=1500'

ADJACENT AND DOWNSTREAM LAND OWNERS
FOR
ROCK CREEK WEST

OWNER
DOUBLE DIAMOND INC,
12720 HILLCREST ROAD, SUITE 400
DALLAS, TEXAS 75230
PHONE (214) 706-9800

ENGINEER
ALLISON ENGINEERING GROUP, INC.
2415 N ELM ST
DENTON, TEXAS 76201
PHONE (940) 380-9453
TBPE REG. #: F-7898

Allison Engineering Group
Planning Communities - Designing the Systems That Serve Them

PREPARED DECEMBER, 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

The following information is required for all renewal, new, and amendment applications.

Section 1. Permitted or Proposed Flows (Instructions Page 43)

A. Existing/Interim I Phase

Design Flow (MGD): 0.0027245

2-Hr Peak Flow (MGD): .01

Estimated construction start date: June 2024

Estimated waste disposal start date: June 2025

B. Interim II Phase

Design Flow (MGD): .005385

2-Hr Peak Flow (MGD): .02

Estimated construction start date: 2030

Estimated waste disposal start date: 2030

C. Final Phase

Design Flow (MGD): .025

2-Hr Peak Flow (MGD): .1

Estimated construction start date: 2034

Estimated waste disposal start date: 2035

D. Current Operating Phase

Provide the startup date of the facility: June 2025

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

Provide a detailed description of the treatment process. **Include the type of treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and

finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed, a description of *each phase* must be provided.**

Initial phase to be a temporary subsurface disposal system, with tanks and drain fields. As connection increase drain fields will be added to accommodate growth within the system. It is not anticipated that the permanent aerobic package plant will be needed until 2035 or beyond.

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) **of each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Septic Tanks	4	10’ x 5’ x6’
Absorptive Drain Field	1	630’ x 73’ x 3’

C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.

Attachment: See Appendix {Flow Diagram}

Section 3. Site Information and Drawing (Instructions Page 44)

Provide the TPDES discharge outfall latitude and longitude. Enter N/A if not applicable.

- Latitude: N/A
- Longitude: N/A

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

- Latitude: N033° 49' 27.30"
- Longitude: W096° 58' 30.80"

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: See Appendix {Site Drawing}

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

The following is required for renewal, new, and amendment permit applications.

Section 1. Type of Disposal System (Instructions Page 68)

Identify the method of land disposal:

- ☐ Surface application
- ☐ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Other (describe in detail): Click to enter text.
- ☐ Subsurface application
- ☒ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: N/A

Section 2. Land Application Site(s) (Instructions Page 68)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Native Grasses (Pastureland)	0.329	0.25	N
Winter Ryegrass	0.329	0.25	N

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **does not meet** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

☒ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)

☐ Low Pressure Dosing

☐ Other, specify: Click to enter text.

Application area, in acres: Phase 1 = 0.84; Phase 2 = 1.41

Area of drainfield, in square feet: Phase 1 = 21520.6 ; Phase 2 = 42,771.4

Application rate, in gal/square foot/day: 0.25

Depth to groundwater, in feet: 20+

Area of trench, in square feet: Phase 1 = 7196.2 ; Phase 2 = 14,332.7

Dosing duration per area, in hours: 24

Number of beds: 1

Dosing amount per area, in inches/day: Phase 1 = 0.60 ; Phase 2 = 0.60

Infiltration rate, in inches/hour: 0.025

Storage volume, in gallons: 8,000

Area of bed(s), in square feet: Phase 1 = 21520.6 ; Phase 2 = 42,771.4

Soil Classification: sandy loam

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of *§* 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: See Appendix {Engineering Report}

Section 2. Edwards Aquifer (Instructions Page 74)

Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☒ No

Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☒ No

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

Francesca Findlay

From: Francesca Findlay
Sent: Friday, March 14, 2025 1:59 PM
To: gedwards@ae-grp.com
Cc: crotramel@ddresorts.com
Subject: WQ0016728001 Double Diamond Properties Construction Co.

Good afternoon,

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To: Fernando Moreno
Cc: Project Folder; Greg Edwards
Subject: RE: WQ0016728001 Double Diamond Properties Construction Co.

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon,

I have spoken to one of our Permit Writers and this is what he sent me. Please let me know if you have any questions and I will do my best to answer them or send it to the Permit Writer to answer it.

So they just need to state the size of the drainfield as the acreage. They placed it in Worksheet 3.2 as 64,000 sq ft, so they can just repeat that but they also need to state that for each phase of the permit as well. Is the 64,000 sq for all the phases or are they going to increase it each phase? Also will that site be accessible to the public or will it be fenced off?

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality

From: Fernando Moreno <FMoreno@ae-grp.com>
Sent: Wednesday, March 19, 2025 11:46 AM
To: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Cc: Project Folder <pf@ae-grp.com>; Greg Edwards <gedwards@ae-grp.com>
Subject: RE: WQ0016728001 Double Diamond Properties Construction Co.

Good Morning Francesca Findlay,

Per our conversation via phone call my first concern was about where the application showed different average flows? The Final phase is predicted to be constructed 5+ years from now, therefore I was wondering what updates are needed for the first page on the technical report to get your approval.
My second concern was about Worksheet 3.0 Section 2 table, under the acres column it was filled 0 acres because the design is based on a subsurface gravity drain design, which should not rely on vegetation or evaporation for proper operation.

Regards,

Fernando C. Moreno, EIT
Allison Engineering Group
2415 N. Elm St.
Denton, TX 76201
P - 940-380-9453
ae-grp.com

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Tuesday, March 18, 2025 10:37 AM
To: Fernando Moreno <FMoreno@ae-grp.com>
Cc: Project Folder <pf@ae-grp.com>; Greg Edwards <gedwards@ae-grp.com>
Subject: RE: WQ0016728001 Double Diamond Properties Construction Co.

Good morning,

The administrative Report will need to be updated if the flow different.
The Application fee will need to be updated if the flow is different.
The Technical report 1.0 Final Phase will need to be updated if it is incorrect.
The Worksheet 3.0 Section 2 please update the acres of the disposal site and please provide updated documents.

Thank you,

Francesca Findlay
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Please consider whether it is necessary to print this e-mail

How is our customer service? Fill out our online customer satisfaction survey at http://www.tceq.texas.gov/customersurvey.

From: Fernando Moreno <FMoreno@ae-grp.com>
Sent: Monday, March 17, 2025 4:27 PM
To: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Cc: Project Folder <pf@ae-grp.com>; Greg Edwards <gedwards@ae-grp.com>
Subject: RE: WQ0016728001 Double Diamond Properties Construction Co.

1. The documents that I am reviewing have different daily average flows. Please verify the flow and provide updates documents.
2. Please verify the acres of the disposal site. And provide an updated document.

Good Afternoon Francesca Findlay,

I don't know what page specifically needs to be updated to address the above questions. Is it in the administrative report, the technical report, or an exhibit?

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From: Greg Edwards <gedwards@ae-grp.com>
Sent: Monday, March 17, 2025 10:56 AM
To: Fernando Moreno <FMoreno@ae-grp.com>
Subject: FW: WQ0016728001 Double Diamond Properties Construction Co.

Thank you for your time,

Greg Edwards
Allison Engineering Group
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From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Friday, March 14, 2025 1:59 PM
To: Greg Edwards <gedwards@ae-grp.com>
Cc: crotramel@ddresorts.com
Subject: WQ0016728001 Double Diamond Properties Construction Co.

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Francesca Findlay

From: Fernando Moreno <FMoreno@ae-grp.com>
Sent: Thursday, April 3, 2025 5:02 PM
To: Francesca Findlay
Cc: Project Folder; Greg Edwards
Subject: Re: WQ0016728001 Double Diamond Properties Construction Co.
Attachments: Cover Letter Reponse.pdf; Design Calculations.pdf; Technical Report Page 1.pdf; Technical Report Page 2.pdf; Technical Report Page 31.pdf; Technical Report Page 39_ Worksheet 3.2.pdf

Good Afternoon Francesca Findlay,

The drainfield area has been modified to accommodate a 100-ft buffer for an intermittent tributary to Sycamore Creek surface water. An updated technical report and design calculation sheet is attached to reflect the modifications. Since our new design flow is still less than 0.05 MGD their will no amendments to the administrative report.

The site is a resort community that has a gated entrance, hence the temporary facility site will not be access to the public.

Regards,

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P - 940-380-9453
ae-grp.com

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Thursday, March 20, 2025 3:58 PM
To: Fernando Moreno <FMoreno@ae-grp.com>
Cc: Project Folder <pf@ae-grp.com>; Greg Edwards <gedwards@ae-grp.com>
Subject: RE: WQ0016728001 Double Diamond Properties Construction Co.

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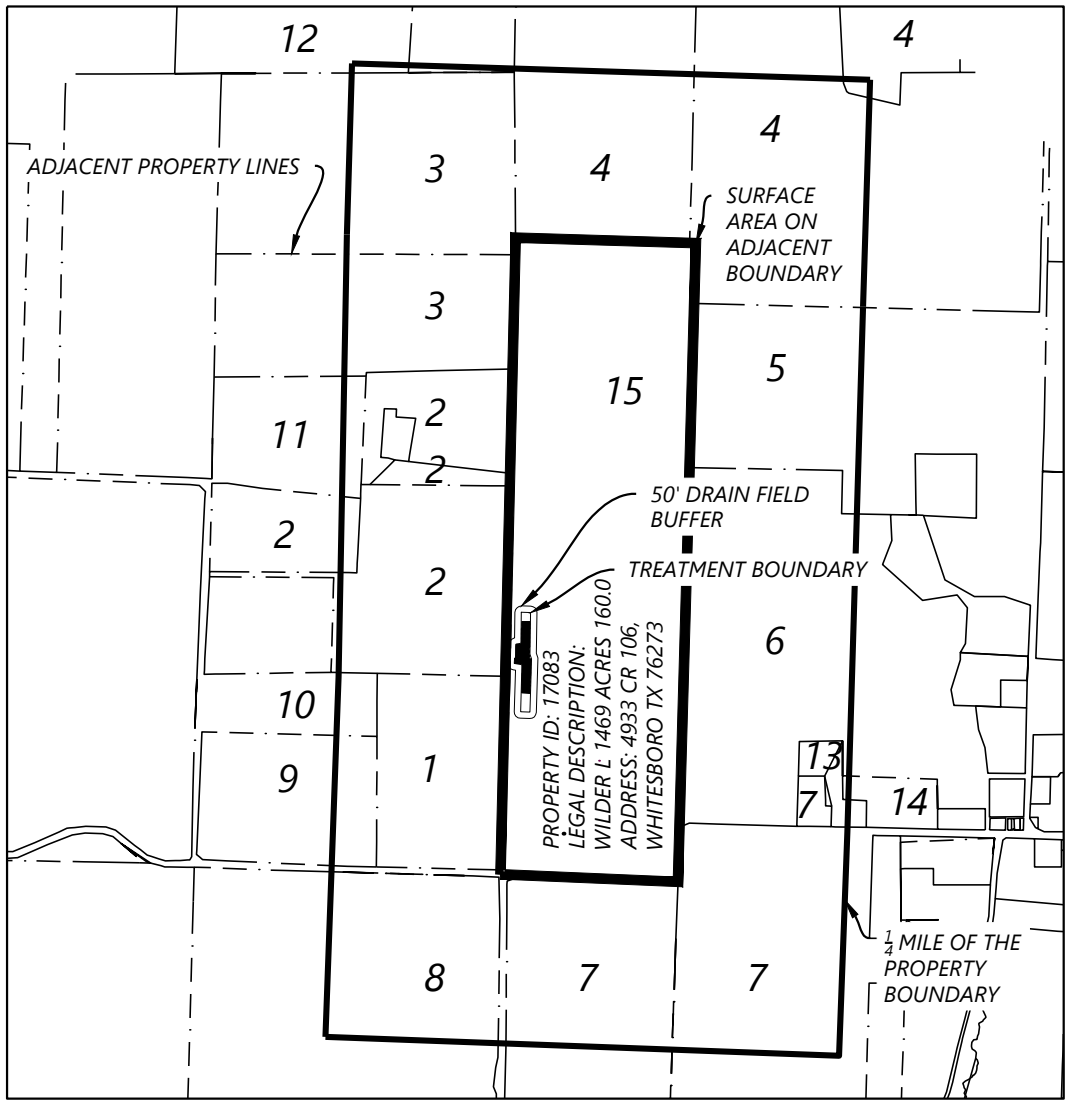
File Name: P:\Projects\DDS2301 - 158 Acres Cooke Co\DWG\TCEQ\SEWER\PBASE-UTILITY.dwg



0 750 1500

SCALE: 1"=1500'

ADJACENT AND DOWNSTREAM LAND OWNERS
FOR
ROCK CREEK WEST

OWNER
DOUBLE DIAMOND INC,
12720 HILLCREST ROAD, SUITE 400
DALLAS, TEXAS 75230
PHONE (214) 706-9800

ENGINEER
ALLISON ENGINEERING GROUP, INC.
2415 N ELM ST
DENTON, TEXAS 76201
PHONE (940) 380-9453
TBPE REG. #: F-7898

Allison Engineering Group
Planning Communities - Designing the Systems That Serve Them

PREPARED DECEMBER, 2024

		Property Legal Description				Owners Mailing Address			
	Name (Affected Landowers)	Street Address	City	State	Zip	Street Address	City	State	Zip
1	RUSSELL KENNETH L & MARGARET S (342697)	4787 CR 106, WHITESBORO TX 76273				265 BRIAR CREEK RD WHITESBORO TX 76273-4611			
2	ALSABROOK BRAD A & VANESSA M (348273)	CR 104, WHITESBORO TX 76273				611 RUBY COVE OAK POINT TX 75068-2254			
		494 CR 104, WHITESBORO TX 76273							
		CR 104, WHITESBORO TX 76273							
		CR 104, WHITESBORO TX 76273							
3	PHELPS CHRISTALENE ETAL (10254)	CR 104, WHITESBORO TX 76273				706 NORTH AVE WHITESBORO TX 76273-1925			
		CR 104, WHITESBORO TX 76273							
4	CARRINGTON CLYDE MAYO & REGINA (316874)	CR 103, WHITESBORO TX 76273				PO BOX 687 PROSPER TX 75078-0687			
		CR 103, WHITESBORO TX 76273							
		CR 103, WHITESBORO TX 76274							
5	BARRON TROY W & EMILY L (411566)	1820 CR 103, WHITESBORO TX 76273				1820 CR 103 WHITESBORO TX 76273			
6	FLEITMAN BILLIE & NELDA SANDERS (317712)	CR 106, WHITESBORO TX 76273				816 N MESQUITE MUENSTER TX 76252-2327			
7	RONALD R ROSS LLC (341719)	CR 106, WHITESBORO TX 76273				1503 SILVERLAKE RD MCKINNEY TX 75072			
		CR 125, WHITESBORO TX 76273							
		5467 CR 106, WHITESBORO TX 76273							
8	RC DEXTER RANCH LLC (333637)	CR 125, WHITESBORO TX 76273				9749 FM 371 GAINESVILLE TX 76240			
9	REED RANDELL & KELLY (417124)	CR 104, WHITESBORO TX 76273				405 CR 124 WHITESBORO TX 76273			
10	SUMMY PATRICK CHRISTOPHER & ANDREW NOBLE (416517)	CR 104, WHITESBORO TX 76273				501 W 15TH ST WESLACO TX 78596-7433			
11	MCELVAIN TOM (350588)	CR 104, WHITESBORO TX 76273				1306 COLLEGEVIEW GAINESVILLE TX 76240			
12	CLEGG BOBBY KEITH (9055)	CR 103, WHITESBORO TX 76273				2201 MESQUITE GAINESVILLE TX 76240-3747			
13	SIMMONS MICHAEL SHANE & JENNIFER LAUREN (350169)	5557 CR 106, WHITESBORO TX 76273				5557 CR 106 WHITESBORO TX 76273-3611			
14	SIMMONS SHANE & JENNY (323897)	5557 CR 106, WHITESBORO TX 76273				5557 CR 106 WHITESBORO TX 76273-3611			
15	DOUBLE DIAMOND INC (418359)	4933 CR 106, WHITESBORO TX 76273				12719 Hillcrest Road, Suite 400 DALLAS TX 75230			