

SHEPHERD'S VILLAGE

WATER POLLUTION ABATEMENT PLAN

APPLICATION



F-470

June 2024



Transportation | Water Resources | Land Development | Surveying | Environmental

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with [30 TAC 213](#).

Administrative Review

1. [Edwards Aquifer applications](#) must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: <http://www.tceq.texas.gov/field/eapp>.

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
6. If the geologic assessment was completed before October 1, 2004 and the site contains “possibly sensitive” features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a “Mid-Review Modification”. Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ’s Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ’s San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name: Shepherd’s Village					2. Regulated Entity No.: N/A				
3. Customer Name: Habitat for Humanity of Williamson County, Texas					4. Customer No.: N/A				
5. Project Type: (Please circle/check one)	<input checked="" type="radio"/> New	Modification			Extension		Exception		
6. Plan Type: (Please circle/check one)	<input checked="" type="radio"/> WPAP	<input type="radio"/> CZP	<input type="radio"/> SCS	<input type="radio"/> UST	<input type="radio"/> AST	<input type="radio"/> EXP	<input type="radio"/> EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	<input checked="" type="radio"/> Residential	Non-residential				8. Site (acres):		0.947 ac	
9. Application Fee:	\$3,000.00		10. Permanent BMP(s):				N/A		
11. SCS (Linear Ft.):	N/A		12. AST/UST (No. Tanks):				N/A		
13. County:	Williamson		14. Watershed:				South Fork – San Gabriel River		

Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the “Texas Groundwater Conservation Districts within the EAPP Boundaries” map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	—	—	✓
Region (1 req.)	—	—	✓
County(ies)	—	—	✓
Groundwater Conservation District(s)	<input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Barton Springs/ Edwards Aquifer <input type="checkbox"/> Hays Trinity <input type="checkbox"/> Plum Creek	<input type="checkbox"/> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<input type="checkbox"/> Austin <input type="checkbox"/> Buda <input type="checkbox"/> Dripping Springs <input type="checkbox"/> Kyle <input type="checkbox"/> Mountain City <input type="checkbox"/> San Marcos <input type="checkbox"/> Wimberley <input type="checkbox"/> Woodcreek	<input type="checkbox"/> Austin <input type="checkbox"/> Bee Cave <input type="checkbox"/> Pflugerville <input type="checkbox"/> Rollingwood <input type="checkbox"/> Round Rock <input type="checkbox"/> Sunset Valley <input type="checkbox"/> West Lake Hills	<input type="checkbox"/> Austin <input type="checkbox"/> Cedar Park <input type="checkbox"/> Florence <input checked="" type="checkbox"/> Georgetown <input type="checkbox"/> Jarrell <input type="checkbox"/> Leander <input type="checkbox"/> Liberty Hill <input type="checkbox"/> Pflugerville <input type="checkbox"/> Round Rock

San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	—	—	—	—	—
Region (1 req.)	—	—	—	—	—
County(ies)	—	—	—	—	—
Groundwater Conservation District(s)	<input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Trinity-Glen Rose	<input type="checkbox"/> Edwards Aquifer Authority	<input type="checkbox"/> Kinney	<input type="checkbox"/> EAA <input type="checkbox"/> Medina	<input type="checkbox"/> EAA <input type="checkbox"/> Uvalde
City(ies) Jurisdiction	<input type="checkbox"/> Castle Hills <input type="checkbox"/> Fair Oaks Ranch <input type="checkbox"/> Helotes <input type="checkbox"/> Hill Country Village <input type="checkbox"/> Hollywood Park <input type="checkbox"/> San Antonio (SAWS) <input type="checkbox"/> Shavano Park	<input type="checkbox"/> Bulverde <input type="checkbox"/> Fair Oaks Ranch <input type="checkbox"/> Garden Ridge <input type="checkbox"/> New Braunfels <input type="checkbox"/> Schertz	NA	<input type="checkbox"/> San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

Michael Fisher, P.E.

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

Date

6/19/24

****FOR TCEQ INTERNAL USE ONLY****

Date(s) Reviewed:		Date Administratively Complete:	
Received From:		Correct Number of Copies:	
Received By:		Distribution Date:	
EAPP File Number:		Complex:	
Admin. Review(s) (No.):		No. AR Rounds:	
Delinquent Fees (Y/N):		Review Time Spent:	
Lat./Long. Verified:		SOS Customer Verification:	
Agent Authorization Complete/Notarized (Y/N):		Fee Check:	Payable to TCEQ (Y/N):
Core Data Form Complete (Y/N):			Signed (Y/N):
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):

GENERAL INFORMATION

General Information Form

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Michael Fisher, P.E.

Date: 6/19/24

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: Shepherd's Village
2. County: Williamson
3. Stream Basin: South Fork - San Gabriel River
4. Groundwater Conservation District (If applicable): N/A
5. Edwards Aquifer Zone:
 - ☒ Recharge Zone
 - ☐ Transition Zone
6. Plan Type:
 - ☒ WPAP
 - ☐ SCS
 - ☐ Modification
 - ☐ AST
 - ☐ UST
 - ☐ Exception Request

7. Customer (Applicant):

Contact Person: Debbie Hoffman

Entity: Habitat for Humanity of Williamson County, Texas

Mailing Address: 2109 N. Austin Ave.

City, State: Georgetown, Texas

Zip: 78626

Telephone: (512) 863-4344

FAX: _____

Email Address: debbieh@williamsonhabitat.org

8. Agent/Representative (If any):

Contact Person: Michael Fisher, P.E.

Entity: Pape-Dawson Consulting Engineers, LLC

Mailing Address: 10801 N MoPac Expressway, Bldg. 3, Suite 200

City, State: Austin, Texas

Zip: 78759

Telephone: (512) 454-8711

FAX: _____

Email Address: mfisher@pape-dawson.com

9. Project Location:

- ☒ The project site is located inside the city limits of Georgetown, TX.
- ☐ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
- ☐ The project site is not located within any city's limits or ETJ.

10. ☒ The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

From TCEQ's Austin office, travel north on I-35 North approximately 12 miles and take Exit 259B towards SH-26 in Georgetown. Exit I-35 North and travel approximately 0.6 miles on the I-35 Frontage Rd before keeping right onto S. Austin Ave. Travel approximately 1.4 miles before turning left on W. 22nd Street. The site is located 50 ft down W. 22nd street on the right.

11. ☒ **Attachment A – Road Map.** A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.
12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:
- ☒ Project site boundaries.
 - ☒ USGS Quadrangle Name(s).
 - ☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).
 - ☒ Drainage path from the project site to the boundary of the Recharge Zone.
13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned.** Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate

the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

☐ Survey staking will be completed by this date: _____

14. ☒ **Attachment C – Project Description.** Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:

- ☒ Area of the site
- ☒ Offsite areas
- ☒ Impervious cover
- ☒ Permanent BMP(s)
- ☒ Proposed site use
- ☒ Site history
- ☒ Previous development
- ☐ Area(s) to be demolished

15. Existing project site conditions are noted below:

- ☐ Existing commercial site
- ☐ Existing industrial site
- ☐ Existing residential site
- ☐ Existing paved and/or unpaved roads
- ☒ Undeveloped (Cleared)
- ☒ Undeveloped (Undisturbed/Uncleared)
- ☐ Other: _____

Prohibited Activities

16. ☒ I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
- (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
- (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
- (4) The use of sewage holding tanks as parts of organized collection systems; and
- (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
- (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. ☒ I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
- (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and
- (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

18. The fee for the plan(s) is based on:

- ☒ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- ☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
- ☒ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
- ☐ A request for an extension to a previously approved plan.

19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

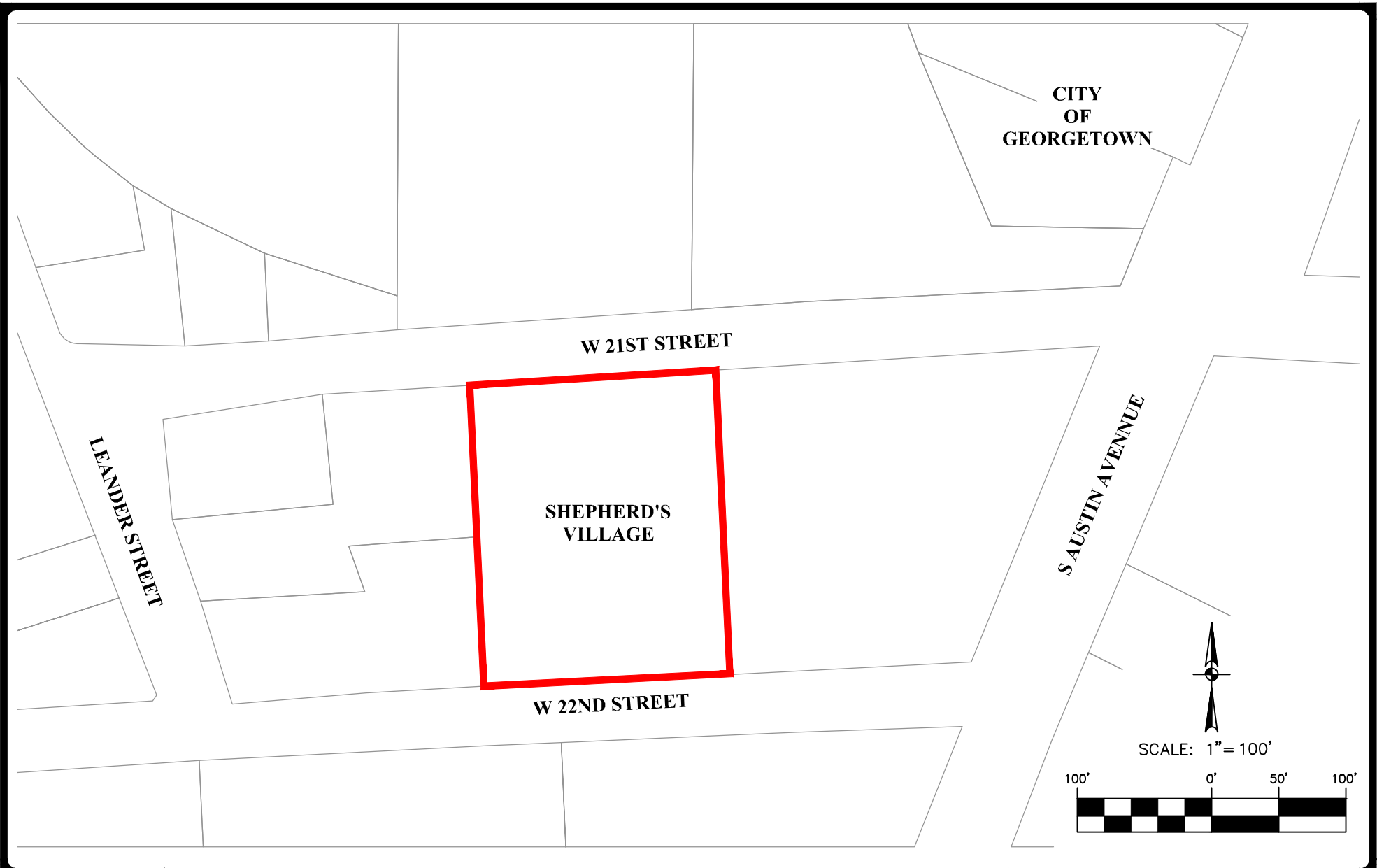
- ☐ TCEQ cashier
- ☒ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
- ☐ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

20. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.


ATTACHMENT A

Date: Mar 21, 2024, 9:27am User ID: jstallinger
File: H:\Projects\51466\00\301 Construction Documents\Reports\WPAP\Report\2. General Information\Attachment A - Road Map.dwg

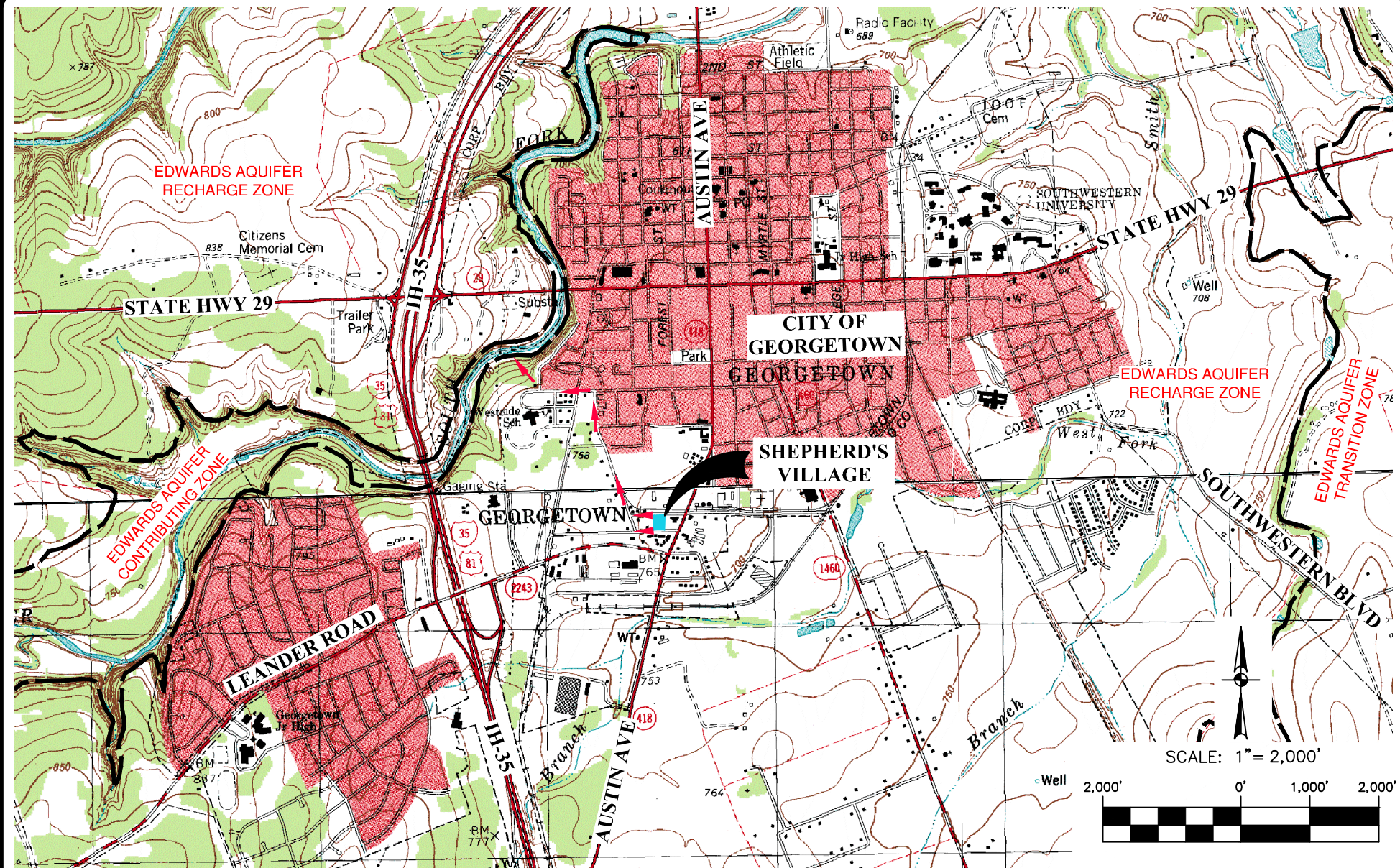


JOB NO. 51466-00
DATE MARCH 2024
DESIGNER JS
CHECKED AC DRAWN JS
SHEET 1 of 1

SHEPHERD'S VILLAGE
GEORGETOWN, TEXAS
ROAD MAP

** PAPE-DAWSON
ENGINEERS**
AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
10801 N MOPAC EXPY, BLDG 3, STE 200 | AUSTIN, TX 78759 | 512.454.8711
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028801

ATTACHMENT B



JOB NO. 51466-00
DATE MARCH 2024
DESIGNER JS
CHECKED AC DRAWN JS
SHEET 1 of 1

SHEPHERD'S VILLAGE
GEORGETOWN, TEXAS
USGS / EDWARDS AQUIFER RECHARGE ZONE MAP

PAPE-DAWSON
ENGINEERS

AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
10801 N MOPAC EXPY, BLDG 3, STE 200 | AUSTIN, TX 78759 | 512.454.8711
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028801

ATTACHMENT C

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

PROJECT DESCRIPTION

Shepherd's Village is located on approximately 0.947 acres of a single-phase development proposed at 502 W. 22nd Street in Williamson County, Texas. The project limits are located entirely over the Edwards Aquifer Recharge Zone, as shown on Attachment B – USGS Quad Map included with this application.

Shepherd's Village is proposed for multi-family residential development with the construction of six (6) duplexes on the property. The site is currently undeveloped, although there was existing concrete on the site that has since been removed. As shown in the geologic assessment provided, there are no naturally occurring sensitive features on site and there are no manmade geologic features onsite. Please refer to the site geologic map provided with this geologic assessment for additional information.

Construction activities proposed within the Shepherd's Village Exception Request include clearing, grading, excavation, installation of utilities and drainage improvements, streets and 1 structure with associated driveway. The Shepherd's Village project consists of approximately 0.46 acres of proposed impervious cover.

Rooftop Rainfall Harvesting Systems are for five of the six proposed duplexes on the site. 0.28 acres of impervious cover is associated with these five rooftops. Per RG-348 Section 3.3.2, impervious cover from rooftop areas connected to rainfall harvesting systems do not need to be included as proposed impervious cover. Approximately 0.18 acres of proposed impervious cover, contributed by uncaptured portions including the driveways and walkups to the units remain uncaptured and the one duplex unit without a rooftop rainwater harvesting system. The net increase in proposed impervious cover results in a total impervious cover percentage of approximately 19.5% for the site, which is below the 20% threshold. Therefore, we are requesting an exception to not treat the stormwater discharges for this site. The Rooftop Rainfall Harvesting Systems have been designed to treat stormwater runoff at ultimate development within the Shepherd's Village site and with sufficient capacity for 1.5" runoff as required in RG-348. Water quality calculations have been provided with this application for the proposed Shepherd's Village development. Please see the Water Quality Treatment Summary plan sheet provided with the attached construction plan sheets for more detail.

GEOLOGIC ASSESSMENT

Geologic Assessment

Texas Commission on Environmental Quality

For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: Kenneth L. Crider

Telephone: 512-930-1600

Date: 7-29-2021

Fax: None

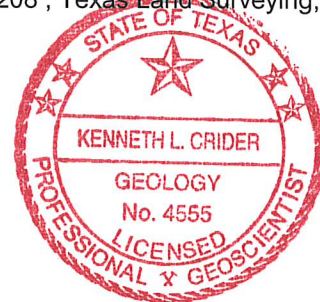
Representing: _____ (Name of Company and TBPG or TBPE registration number)

HPE Civil Engineering, PELS Firm F-22208, Texas Land Surveying, Inc. TBPG #50538

Signature of Geologist:

 7-29-21

Regulated Entity Name: Shepherd's Village



Project Information

1. Date(s) Geologic Assessment was performed: 7-29-2021

2. Type of Project:

☒ WPAP

☐ AST

☐ SCS

☐ UST

3. Location of Project:

☒ Recharge Zone

☐ Transition Zone

☐ Contributing Zone within the Transition Zone

4. ☒ **Attachment A - Geologic Assessment Table.** Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
5. ☒ Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
Doss Silty clay	C	up to 1.6
DoC		

** Soil Group Definitions (Abbreviated)*

- A. Soils having a high infiltration rate when thoroughly wetted.
- B. Soils having a moderate infiltration rate when thoroughly wetted.
- C. Soils having a slow infiltration rate when thoroughly wetted.
- D. Soils having a very slow infiltration rate when thoroughly wetted.

6. ☒ **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. ☒ **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. ☒ **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'
- Applicant's Site Plan Scale: 1" = _____'
- Site Geologic Map Scale: 1" = 100 '
- Site Soils Map Scale (if more than 1 soil type): 1" = _____'
9. Method of collecting positional data:
- ☒ Global Positioning System (GPS) technology.
 - ☐ Other method(s). Please describe method of data collection: _____
10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.

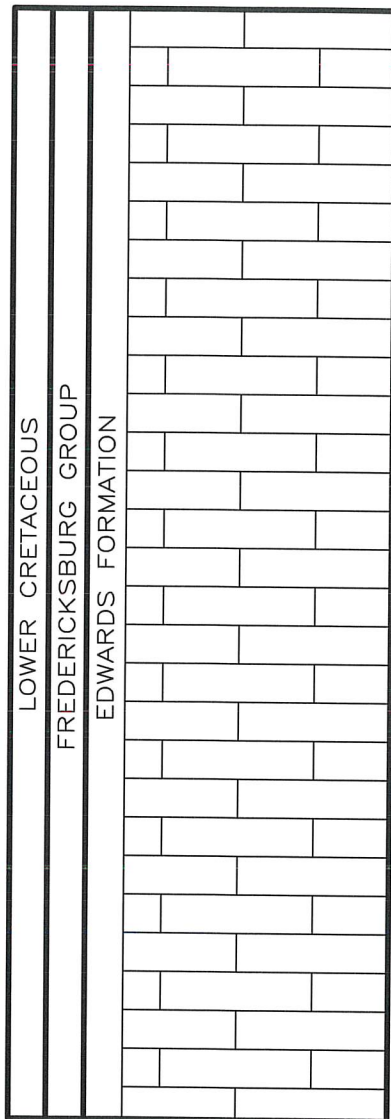
12. ☐ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
- ☒ Geologic or manmade features were not discovered on the project site during the field investigation.
13. ☒ The Recharge Zone boundary is shown and labeled, if appropriate.
14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
- ☐ There are 0 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
- ☐ The wells are not in use and have been properly abandoned.
- ☐ The wells are not in use and will be properly abandoned.
- ☐ The wells are in use and comply with 16 TAC Chapter 76.
- ☒ There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

15. ☐ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

ATTACHMENT B – STRATIGRAPHIC COLUMN

SHEPHERD'S VILLAGE



EDWARDS FORMATION (Ked), COVERED, TYPICALLY LIMESTONE, DOLOMITIC LIMESTONE AND MARL, MASSIVE TO THIN BEDS, HARD, WHITE TO LIGHT BROWN, WEATHERS DARK GRAY, SURFACE CHERT, IN SOME AREAS SLIGHTLY "HONEYCOMBED" AND CAVERNOUS, THICKNESS BETWEEN 100 AND 300 FEET, THINS NORTHWARD. (THICKNESS PER GEOLOGY OF THE GEORGETOWN REGION BY E.W. COLLINS)

JOB NO: 211239-GA

Texas Land Surveying, Inc.

—A Land Surveying and Geoscience Firm—

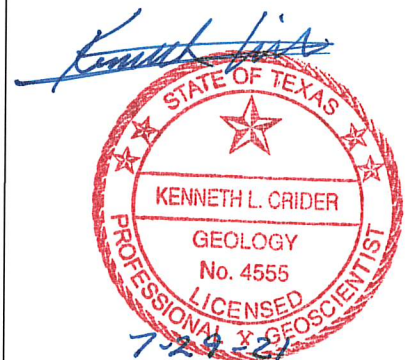
3613 Williams Drive, Suite 903 — Georgetown, Texas 78628

(512) 930-1600/(512) 930-9389 fax

www.texas-ls.com

TBPELS FIRM NO.10056200

GEOSCIENCE FIRM NO. 50538



KENNETH L. CRIDER
P.G. #4555

ATTACHMENT C – SITE GEOLOGY
SHEPERD'S VILLAGE
Page 1 of 1

The site is that tract called 0.949 of an acre in that instrument to Habitat for Humanity of Williamson County, Texas, Inc. recorded in Document No. 2020011501 of the Official Public Records of Williamson County, Texas. The site being also known as 502 West 21st Street, Georgetown, Texas. The site mostly open to slightly wooded with very little to no underbrush around portions of the boundary. The site also being mostly mowed on this date. Portions of the site appear to have been filled. Evidenced by chunks of asphalt scattered on the surface.

The geologic formation within the site is the Edward's Limestone. The formation is covered within the site. Site formation based on the Geology of the Round Rock Quadrangle prepared by E.W. Collins.


There were no Karst features such as caves or sinkholes found within the site.

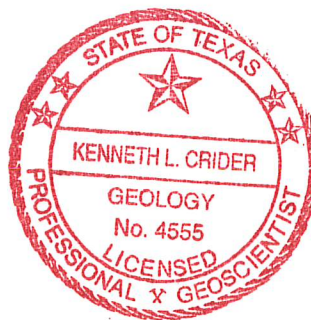
There were no structural features such as faults or fracture zones found within the site. There are no faults mapped through the site on area geologic maps. There is a dominant northeast trending fault approximately 400 feet east of the site as shown on said Round Rock Quadrangle geologic map.

Given the lack of sensitive recharge features combined with the clay soil cover in the site, the potential for rapid fluid movement to the Edward's Aquifer is low.

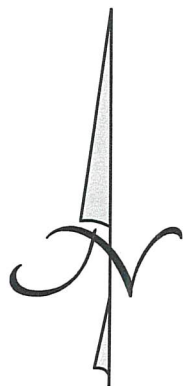
In regards to the City of Georgetown's Water Quality Regulations (Ordinance 2013-59) I Kenneth L. Crider do hereby certify that there are no streams within the site, there are no springs within the site and there are no seeps within the site. I further certify that the site is not within 300 meters (984 feet) of an occupied site.

NOTE: It is the intent of this assessment to identify all potential recharge features. This assessment is based solely on surface evidence. Smaller features within the site could be covered or otherwise camouflaged. In the event a sensitive feature is found during the construction phase of this project, work around the feature should be halted and TCEQ notified.

 7-29-21
Kenneth L. Crider, PG #4555
Texas Land Surveying, Inc.
3613 Williams Drive, Suite 903
Georgetown Texas 78628
Geoscience FIRM #50538

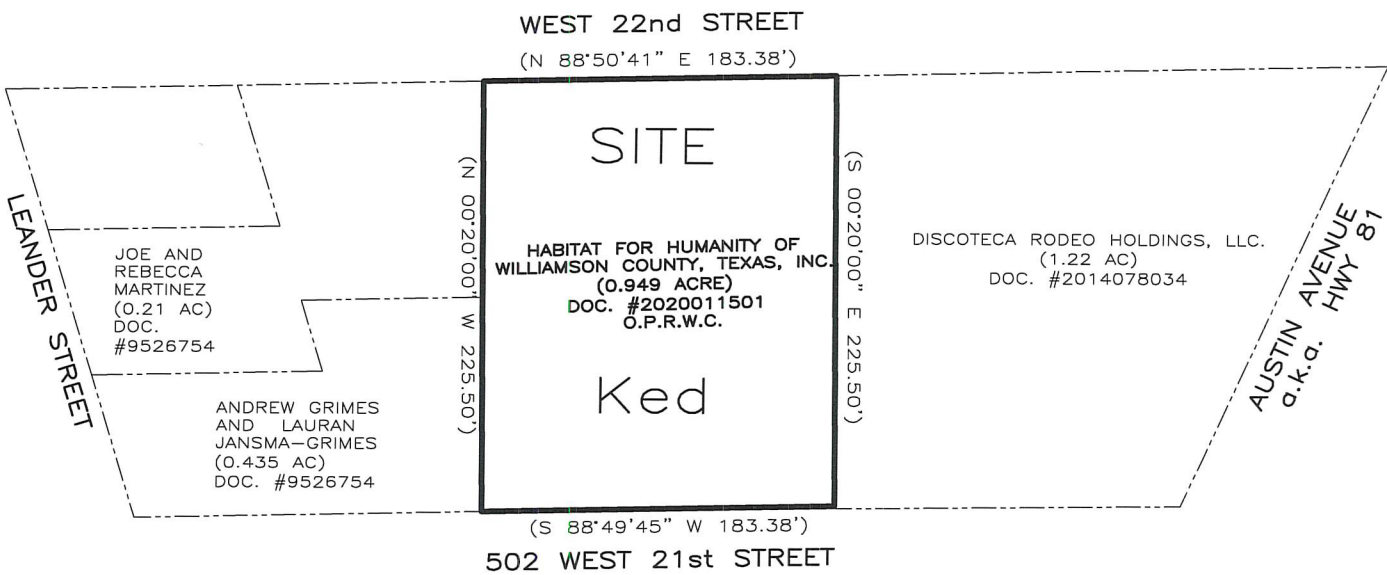


ATTACHMENT D — SITE GEOLOGIC MAP
SHEPHERD'S VILLAGE



Scale: 1" = 100'

BEARINGS AND DISTANCES
BASED ON PROPERTY
DESCRIPTION IN DOCUMENT NO.
2020011501 O.P.R.W.C.



EDWARDS FORMATION (Ked), COVERED, TYPICALLY LIMESTONE, DOLOMITIC LIMESTONE AND MARL, MASSIVE TO THIN BEDS, HARD, WHITE TO LIGHT BROWN, WEATHERS DARK GRAY, SURFACE CHERT, IN SOME AREAS SLIGHTLY "HONEYCOMBED" AND CAVERNOUS, THICKNESS BETWEEN 100 AND 300 FEET, THINS NORTHWARD. (THICKNESS PER GEOLOGY OF THE GEORGETOWN REGION BY E.W. COLLINS)

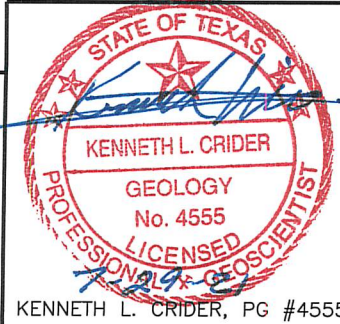
THIS AREA DOES NOT APPEAR TO BE WITHIN
A SPECIAL FLOOD HAZARD AREA, PER
FEMA'S FLOOD INSURANCE RATE MAP
#48491C0485F DATED DECEMBER 20, 2019.

THIS AREA LIES ENTIRELY
WITHIN THE EDWARDS AQUIFER
RECHARGE ZONE.

JOB NO: 211239-GA

Texas Land Surveying, Inc.

—A Land Surveying and Geoscience Firm—
3613 Williams Drive, Suite 903 — Georgetown, Texas 78628
(512) 930-1600/(512) 930-9389 fax www.texas-ls.com
TBPLS FIRM NO.10056200 GEOSCIENCE FIRM NO.50538



KENNETH L. CRIDER, PG #4555

WPAP APPLICATION

Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: Michael Fisher, P.E.

Date: 6/19/24

Signature of Customer/Agent:



Regulated Entity Name: Shepherd's Village

Regulated Entity Information

1. The type of project is:

- ☐ Residential: Number of Lots: _____
- ☒ Residential: Number of Living Unit Equivalents: 6
- ☐ Commercial
- ☐ Industrial
- ☐ Other: _____

2. Total site acreage (size of property): 0.95

3. Estimated projected population: 24

4. The amount and type of impervious cover expected after construction are shown below:

Table 1 - Impervious Cover Table

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	2,789	÷ 43,560 =	.064
Parking		÷ 43,560 =	
Other paved surfaces	5,244	÷ 43,560 =	0.120
Total Impervious Cover	5,244	÷ 43,560 =	0.120

Total Impervious Cover $0.184 \div$ **Total Acreage** $0.947 \times 100 = 19.5\%$ **Impervious Cover**

5. ☒ **Attachment A - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.
6. ☒ Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

For Road Projects Only

Complete questions 7 - 12 if this application is exclusively for a road project.

7. Type of project:

- ☐ TXDOT road project.
- ☐ County road or roads built to county specifications.
- ☐ City thoroughfare or roads to be dedicated to a municipality.
- ☐ Street or road providing access to private driveways.

8. Type of pavement or road surface to be used:

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: _____

9. Length of Right of Way (R.O.W.): _____ feet.

Width of R.O.W.: _____ feet.

$L \times W =$ _____ $\text{Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} =$ _____ acres.

10. Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

$L \times W =$ _____ $\text{Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} =$ _____ acres.

Pavement area _____ acres \div R.O.W. area _____ acres $\times 100 =$ _____ % impervious cover.

11. ☐ A rest stop will be included in this project.

☐ A rest stop will not be included in this project.

12. ☐ Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

13. ☒ **Attachment B - Volume and Character of Stormwater.** A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on the area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

Wastewater to be generated by the Proposed Project

14. The character and volume of wastewater is shown below:

<u>100</u> % Domestic	<u>2,000</u> Gallons/day
<u> </u> % Industrial	<u> </u> Gallons/day
<u> </u> % Commingled	<u> </u> Gallons/day
TOTAL gallons/day <u>2,000</u>	

15. Wastewater will be disposed of by:

☐ On-Site Sewage Facility (OSSF/Septic Tank):

☐ **Attachment C - Suitability Letter from Authorized Agent.** An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's (authorized agent) written approval is attached. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities.

☐ Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

☒ Sewage Collection System (Sewer Lines):

☒ Private service laterals from the wastewater generating facilities will be connected to an existing SCS.

☐ Private service laterals from the wastewater generating facilities will be connected to a proposed SCS.

☒ The SCS was previously submitted on 9/9/2022 (EAPP ID No. 11003233).

☐ The SCS was submitted with this application.

☐ The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.

☒ The sewage collection system will convey the wastewater to the San Gabriel Wastewater (name) Treatment Plant. The treatment facility is:

☒ Existing.

☐ Proposed.

16. ☒ All private service laterals will be inspected as required in 30 TAC §213.5.

Site Plan Requirements

Items 17 – 28 must be included on the Site Plan.

17. ☒ The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = 20'.

18. 100-year floodplain boundaries:

☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.

☒ No part of the project site is located within the 100-year floodplain.

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): Federal Emergency Management Administration Flood Hazard Boundary Map, Community Panel No. 48491C0293F, effective date December 20, 2019.

19. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan.

☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan.

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):

☐ There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)

☐ The wells are not in use and have been properly abandoned.

☐ The wells are not in use and will be properly abandoned.

☐ The wells are in use and comply with 16 TAC §76.

☒ There are no wells or test holes of any kind known to exist on the project site.

21. Geologic or manmade features which are on the site:

☐ All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.

☒ No sensitive geologic or manmade features were identified in the Geologic Assessment.

☐ **Attachment D - Exception to the Required Geologic Assessment.** A request and justification for an exception to a portion of the Geologic Assessment is attached.

- 22. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
- 23. ☒ Areas of soil disturbance and areas which will not be disturbed.
- 24. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25. ☒ Locations where soil stabilization practices are expected to occur.
- 26. ☐ Surface waters (including wetlands).
☒ N/A
- 27. ☐ Locations where stormwater discharges to surface water or sensitive features are to occur.
☒ There will be no discharges to surface water or sensitive features.
- 28. ☒ Legal boundaries of the site are shown.

Administrative Information

- 29. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- 30. ☒ Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

ATTACHMENT A

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

FACTORS AFFECTING WATER QUALITY

Potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges from the site during construction include:

- Soil erosion due to the clearing of the site;
- Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle drippings;
- Hydrocarbons from asphalt paving operations;
- Miscellaneous trash and litter from construction workers and material wrappings;
- Concrete truck washout; and
- Potential overflow/spills from portable toilets.

Potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges from the site after development include:

- Oil, grease, fuel and hydraulic fluid contamination from vehicle drippings;
- Dirt and dust which may fall off vehicles; and
- Miscellaneous trash and litter.

ATTACHMENT B

SHEPHERD'S VILLAGE

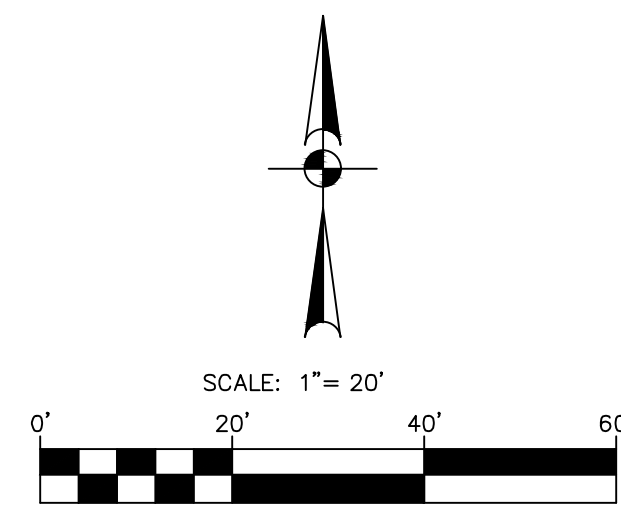
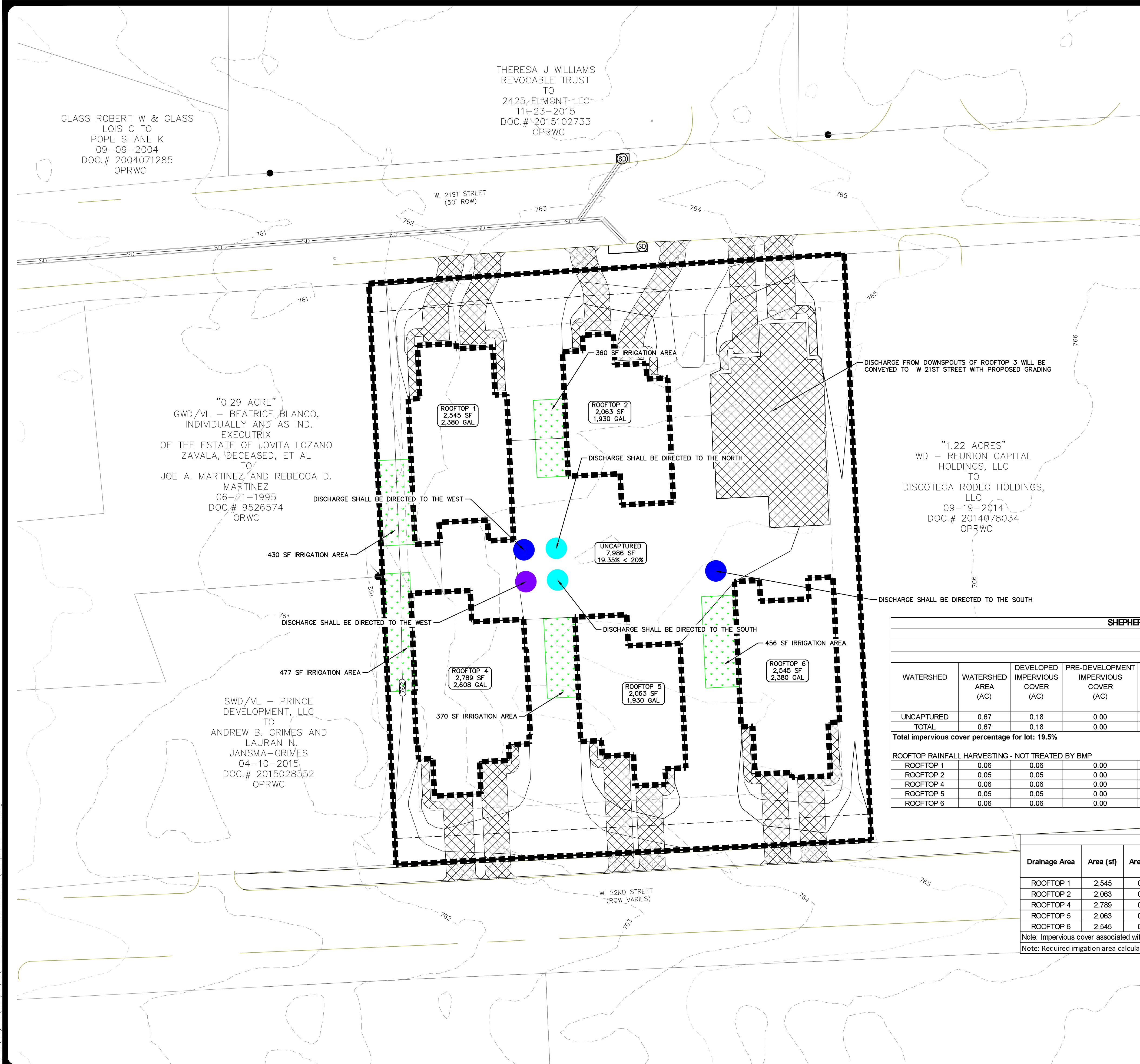
Water Pollution Abatement Plan Application

VOLUME AND CHARACTER OF STORMWATER

Shepherd's Village contributes runoff to four (4) discharge points of analysis: an existing curb inlet along W 21st street, the northwest corner of the property through W 21st street, the western boundary of the property, and the southwest corner of the property through W 22nd street. This runoff is ultimately conveyed through the South Fork San Gabriel River downstream of the development. The specific drainage point of analysis are shown on Sheets 9 & 10 of the construction plans. The 100-year pre-developed runoff coefficient for contributing watersheds to drainage points of analysis 1, 2, 3, and 4 are 0.93, 0.76, 0.89, and 0.70 as determined based on the Rational Method runoff coefficients per the City of Georgetown Drainage Criteria Manual. The 100-year pre-developed peak flow at drainage analysis point 1 is approximately 15 cubic feet per second (cfs), the 100-year pre-developed peak flow at drainage analysis point 2 is approximately 3 cubic feet per second (cfs), the 100-year pre-developed peak flow at drainage analysis point 3 is approximately 13 cubic feet per second (cfs), and the 100-year pre-developed peak flow at drainage analysis point 4 is approximately 4 cfs. The 100-year post-developed runoff coefficients for contributing watersheds to drainage points of analysis 1, 2, 3, and 4 are 0.90, 0.65, 0.87, and 0.72 respectively, as determined based on the Rational Method runoff coefficients per the City of Georgetown Drainage Criteria Manual. The 100-year post-developed peak flow at drainage analysis point 1 is approximately 16 cubic feet per second (cfs), the 100-year post-developed peak flow at drainage analysis point 2 is approximately 2 cubic feet per second (cfs), the 100-year post-developed peak flow at drainage analysis point 3 is approximately 13 cubic feet per second (cfs), and the 100-year post-developed peak flow at drainage analysis point 4 is approximately 2 cfs. Peak flowrates for pre-development and post-development conditions were determined using the Rational Method in accordance with the City of Georgetown Drainage Criteria Manual. Stormwater runoff from the proposed single-family residential development can be characterized as overland, shallow-concentrated, and channelized flow.

SITE PLAN

Date: Jul 12, 2024, 1:27pm User: jstysinger
File: R:\Projects\51466\00_301_Construction Documents\DWG\51466-00.dwg



- LEGEND**
- 7.35 PROPOSED CONTOURS
 - 7.35 EXISTING CONTOURS
 - PROPERTY LINE
 - PROPOSED WATERSHED
 - OFFSITE 3A
3.92 AC
 - WATERSHED ACREAGE
 - FLOW DIRECTION
 - 3,000 GAL STORAGE TANK
 - 2,500 GAL STORAGE TANK
 - 2,000 GAL STORAGE TANK
 - UNCAPTURED IMPERVIOUS COVER
 - PROPOSED IRRIGATION AREA

SHEPHERD'S VILLAGE - WATER QUALITY TREATMENT SUMMARY							
SHEPHERD'S VILLAGE WPAP							
WATERSHED	WATERSHED AREA (AC)	DEVELOPED IMPERVIOUS COVER (AC)	PRE-DEVELOPMENT IMPERVIOUS COVER (AC)	TOTAL NET IMPERVIOUS COVER (AC)	BMP TYPE	REQUIRED REMOVAL OF TSS GENERATED ANNUALLY (LBS)	TSS REMOVED ANNUALLY (LBS)
UNCAPTURED	0.67	0.18	0.00	0.18	UNTREATED	160	0
TOTAL	0.67	0.18	0.00	0.18		160	0
Total impervious cover percentage for lot: 19.5%							
ROOFTOP RAINFALL HARVESTING - NOT TREATED BY BMP							
ROOFTOP 1	0.06	0.06	0.00	0.06	ROOFTOP RAINFALL HARVESTING SYSTEM 1	N/A	N/A
ROOFTOP 2	0.05	0.05	0.00	0.05	ROOFTOP RAINFALL HARVESTING SYSTEM 2	N/A	N/A
ROOFTOP 4	0.06	0.06	0.00	0.06	ROOFTOP RAINFALL HARVESTING SYSTEM 4	N/A	N/A
ROOFTOP 5	0.05	0.05	0.00	0.05	ROOFTOP RAINFALL HARVESTING SYSTEM 5	N/A	N/A
ROOFTOP 6	0.06	0.06	0.00	0.06	ROOFTOP RAINFALL HARVESTING SYSTEM 6	N/A	N/A

Shepherd's Village - Rooftop Rainfall Harvesting Calculations								
Drainage Area	Area (sf)	Area (ac)	Required Captured Rainfall Runoff (in)	Required Captured Volume (cf)	Required Captured Volume (gal)	Provided Storage System Volume (gal)	Required Irrigation Area (sf)	Provided Irrigation Area (sf)
ROOFTOP 1	2,545	0.06	1.5	318	2,380	2,500	424	430
ROOFTOP 2	2,063	0.05	1.5	258	1,929	2,000	344	360
ROOFTOP 4	2,789	0.06	1.5	349	2,608	3,000	465	477
ROOFTOP 5	2,063	0.05	1.5	258	1,929	2,000	344	370
ROOFTOP 6	2,545	0.06	1.5	318	2,380	2,500	424	456
Note: Impervious cover associated with roof areas connected to a rainfall harvesting systems does not need to be included in TSS calculations.								
Note: Required irrigation area calculations are based on a soil conductivity of 0.3 in/hr, based on results for project area from NRCS Web Soil Survey.								

NO. REVISION

DATE

7/12/24

PAPE-DAWSON ENGINEERS

AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
1800 N. MOPC EXPY, BLDG 3, STE 200 | AUSTIN, TX 78759 | 512.644.6711
TDEP FIRM REGISTRATION #470 | TDEP FIRM REGISTRATION #10028601

SHEPHERD'S VILLAGE

502 W. 21ST GEORGETOWN, TX 78626

WATER QUALITY TREATMENT SUMMARY

CITY JOB No. 2024-39-SDP

JOB NO. 51466-00

DATE MARCH 2024

DESIGNER BA/JS/AD

CHECKED AC DRAWN BA

SHEET 11 OF 54

TEMPORARY STORMWATER

Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Michael Fisher, P.E.

Date: 6/19/24

Signature of Customer/Agent:



Regulated Entity Name: Shepherd's Village

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

☒ The following fuels and/or hazardous substances will be stored on the site: Diesel Fuel, Gasoline, etc.

These fuels and/or hazardous substances will be stored in:

- ☒ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

- ☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
- ☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- ☐ Fuels and hazardous substances will not be stored on the site.
- 2. ☒ **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. ☒ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. ☒ **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

- 5. ☒ **Attachment C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - ☒ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - ☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: South Fork - San Gabriel River

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

- 7. ☒ **Attachment D – Temporary Best Management Practices and Measures.** TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

- ☒ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
 - ☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - ☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - ☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
- ☐ **Attachment E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
- ☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. ☒ **Attachment F - Structural Practices.** A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. ☒ **Attachment G - Drainage Area Map.** A drainage area map supporting the following requirements is attached:
- ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
 - ☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

- ☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- ☒ N/A
12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices.** A schedule of the interim and permanent soil stabilization practices for the site is attached.

18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.
22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

ATTACHMENT A

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

Spill Response Actions

In the event of an accidental leak or spill:

- Spill must be contained and cleaned up immediately.
- Spills will not be merely buried or washed with water.
- Contractor shall take action to contain spill. Contractor may use sand or other absorbent material stockpiled on site to absorb spill. Absorbent material should be spread over the spill area to absorb the spilled product.
- In the event of an uncontained discharge the contractor shall utilize onsite equipment to construct berms downgradient of the spill with sand or other absorbent material to contain and absorb the spilled product.
- Spill containment/absorbent materials along with impacted media must be collected and stored in such a way so as not to continue to affect additional media (soil/water). Once the spill has been contained, collected material should be placed on poly or plastic sheeting until removed from the site. The impacted media and cleanup materials should be covered with plastic sheeting and the edges weighed down with paving bricks or other similarly dense objects as the material is being accumulated. This will prevent the impacted media and cleanup materials from becoming airborne in windy conditions or impacting runoff during a rain event. The stockpiled materials should not be located within an area of concentrated runoff such as along a curb line or within a swale.
- Contaminated soils and cleanup materials will be sampled for waste characterization. When the analysis results are known the contaminated soils and cleanup materials will be removed from the site and disposed in a permitted landfill in accordance with applicable regulations.
- The contractor will be required to notify the owner, who will in turn contact TCEQ to notify them in the event of a significant hazardous/reportable quantity spill. Additional notifications as required by the type and amount of spill will be conducted by owner or owner's representative.

In the event of an accidental significant or hazardous spill:

- Visit TCEQ's Reportable Quantities site: https://www.tceq.texas.gov/response/spills/spill_rq.html
- The contractor will be required to report significant or hazardous spills in reportable quantities as soon as possible and within 24 hours to:
 - the National Response Center at (800) 424-8802
 - the TCEQ Regional Office (512) 339-2929 (if during business hours: 8 AM to 5 PM) or
 - the State Emergency Response Center (800) 832-8224 (if after hours)

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

- Contaminated soils will be sampled for waste characterization. When the analysis results are known the contaminated soils will be removed from the site and disposed in a permitted landfill in accordance with applicable regulations.

Additional guidance can be obtained from TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) Section 1.4.16. Contractor shall review this section.

ATTACHMENT B

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

POTENTIAL SOURCES OF CONTAMINATION

- | | | |
|----------------------|---|--|
| Potential Source | ● | Asphalt products used on this project. |
| Preventative Measure | ■ | After placement of asphalt, emulsion or coatings, the contractor will be responsible for immediate cleanup should an unexpected rain occur. For the duration of the asphalt product curing time, the contractor will maintain standby personnel and equipment to contain any asphalt wash-off should an unexpected rain occur. The contractor will be instructed not to place asphalt products on the ground within 48 hours of a forecasted rain. |
| Potential Source | ● | Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle dripping. |
| Preventative Measure | ■ | Vehicle maintenance, when possible, will be performed within the construction staging area. |
| | ■ | Construction vehicles and equipment shall be checked regularly for leaks and repaired immediately. |
| Potential Source | ● | Accidental leaks or spills of oil, petroleum products and substances listed under 40 CFR parts 110, 117, and 302 used or stored temporarily on site. |
| Preventative Measure | ■ | Contractor to incorporate into regular safety meetings, a discussion of spill prevention and appropriate disposal procedures. |

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

- Contractor's superintendent or representative overseer shall enforce proper spill prevention and control measures.
 - Hazardous materials and wastes shall be stored in covered containers and protected from vandalism.
 - A stockpile of spill cleanup materials shall be stored on site where it will be readily accessible.
-
- | | | |
|--------------------|---|---|
| Potential Source | ● | Miscellaneous trash and litter from construction workers and material wrappings. |
| Preventive Measure | ■ | Trash containers will be placed throughout the site to encourage proper trash disposal. |
-
- | | | |
|--------------------|---|---|
| Potential Source | ● | Construction debris. |
| Preventive Measure | ■ | Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case by case basis. |
-
- | | | |
|----------------------|---|---|
| Potential Source | ● | Spills/Overflow of waste from portable toilets |
| Preventative Measure | ■ | Portable toilets will be placed away from high traffic vehicular areas and storm drain inlets. |
| | ■ | Portable toilets will be placed on a level ground surface. |
| | ■ | Portable toilets will be inspected regularly for leaks and will be serviced and sanitized at time intervals that will maintain sanitary conditions. |

ATTACHMENT C

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

SEQUENCE OF MAJOR ACTIVITIES

The sequence of major activities which disturb soil during construction on this site are listed below.

- 1) Set erosion controls – approximately 599 LF of silt fence
- 2) Clear and grub – approximately 0.95 acres
- 3) Install sub-base/base for road/parking areas – approximately 0.12 acres
- 4) Pave roadway/parking areas – approximately 0.12 acres
- 5) Site cleanup – approximately 0.95 acres
- 6) Remove erosion controls – approximately 599 LF of silt fence

ATTACHMENT D

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

Please see the Erosion Control sheets included in the Construction Plans Section for TBMP layout and the responses below for more details.

Due to existing topography, upgradient stormwater from adjacent property along the eastern edges of the site enters the property and flows from east to west, north, and south by sheet flow within the project limits. All TBMPs utilized are adequate for the drainage areas served.

Site preparation, which is the initiation of all activity on the project, will disturb the largest amount of soil. Therefore, before any of this work can begin, the clearing and grading contractor will be responsible for the installation of all on-site control measures. The methodology for pollution prevention of on-site stormwater will include: (1) erection of silt fences along the downgradient boundary of construction activities for temporary erosion and sedimentation controls, (2) installation of inlet protection for existing storm curb inlets, (3) installation of stabilized construction entrance/exit(s) to reduce the dispersion of sediment from the site, and (4) installation of construction staging area(s).

Prior to the initiation of construction, all previously installed control measures will be repaired or reestablished for their designed or intended purpose. This work, which is the remainder of all activities on the project, may also disturb additional soil. The construction contractor will be responsible for the installation of all remaining on-site control measures that includes installation of the concrete truck washout pit(s), as construction phasing warrants.

Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. By containing the sediment and solids within the site, they will not enter the aquifer, surface streams and/or sensitive features that may exist downstream of the site.

Inlet protection will be installed and utilized to reduce the dispersion of sediment from entering the storm sewer system during construction activities.

Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. By containing

SHEPHERD'S VILLAGE

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the sediment and solids within the site, they will not enter the aquifer, surface streams and/or sensitive features that may exist downstream of the site.

BMP measures utilized in this plan are intended to allow stormwater to continue downstream after passing through the BMPs. This will allow stormwater runoff to continue downgradient to streams or features that may exist downstream of the site. Features discovered during construction will be reported and assessed in accordance with applicable regulations.

ATTACHMENT F

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

STRUCTURAL PRACTICES

The following structural measures will be installed prior to the initiation of site preparation activities:

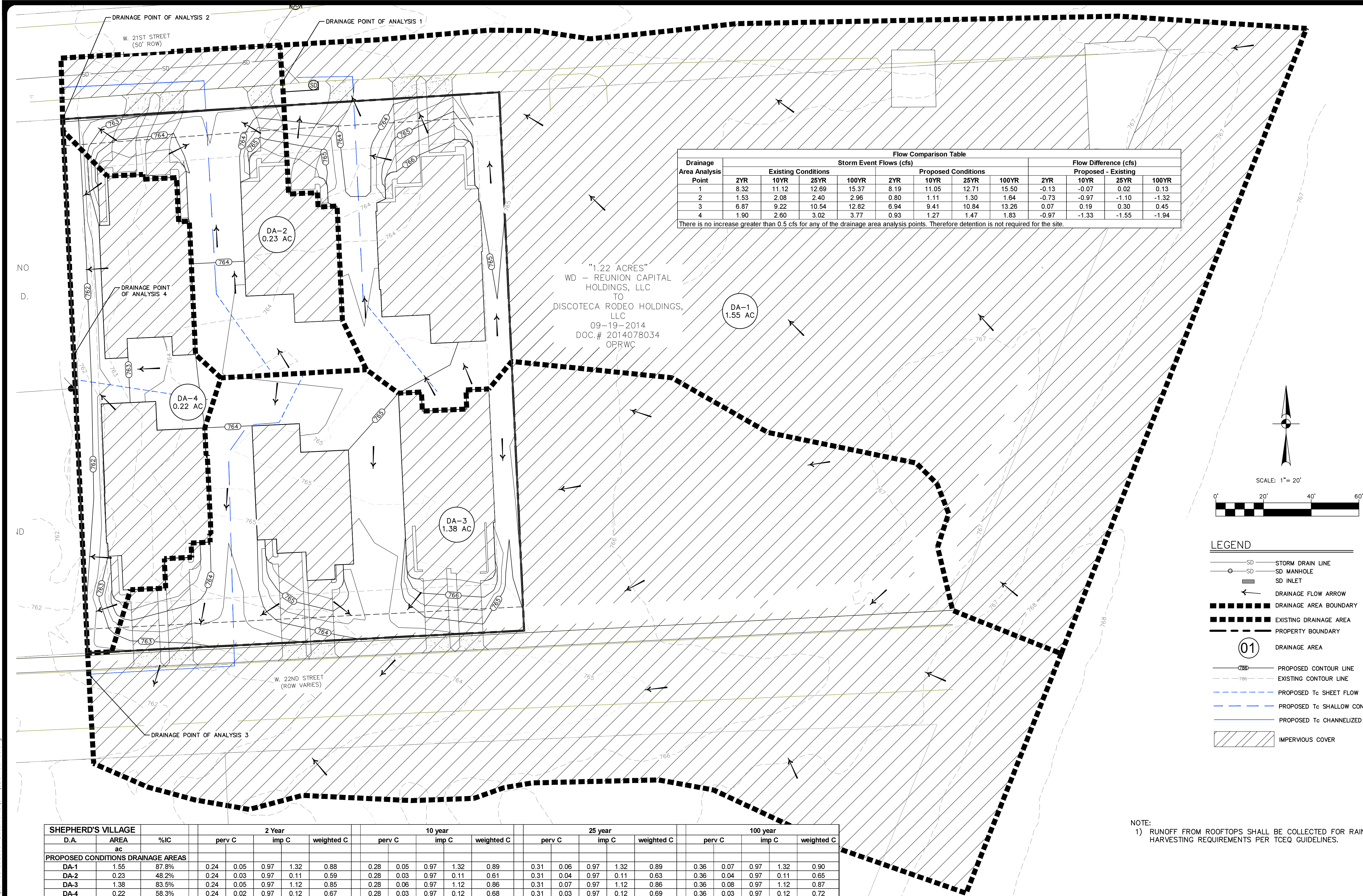
- Erection of silt fences along the downgradient boundary of construction activities, as located on the Erosion Control sheets and illustrated on the Construction Details - Erosion Controls sheet.
- Installation of stabilized construction entrance/exit(s) and construction staging area(s), as located on the Erosion Control sheets and illustrated on the Construction Details - Erosion Controls sheet.

The following structural measures will be installed at the initiation of construction activities or as appropriate based on the construction sequencing:

- Installation of inlet protection, as required and located on the Erosion Control sheets and illustrated on the Construction Details - Erosion Controls sheet.
- Installation of concrete truck washout pit(s), as required and located on the Erosion Control sheets and illustrated on the Construction Details - Erosion Controls sheet.

ATTACHMENT G

Date: Jul 12, 2024, 1:26pm User ID: jstyslinger
File Path: Projects\51466\3D\301 Construction Documents\Civil\0351466-00.dwg



Drainage Area Analysis Point	Storm Event Flows (cfs)								Flow Difference (cfs)			
	Existing Conditions				Proposed Conditions				Proposed - Existing			
	2YR	10YR	25YR	100YR	2YR	10YR	25YR	100YR	2YR	10YR	25YR	100YR
1	8.32	11.12	12.69	15.37	8.19	11.05	12.71	15.50	-0.13	-0.07	0.02	0.13
2	1.53	2.08	2.40	2.96	0.80	1.11	1.30	1.64	-0.73	-0.97	-1.10	-1.32
3	6.87	9.22	10.54	12.82	6.94	9.41	10.84	13.26	0.07	0.19	0.30	0.45
4	1.90	2.60	3.02	3.77	0.93	1.27	1.47	1.83	-0.97	-1.33	-1.55	-1.94

There is no increase greater than 0.5 cfs for any of the drainage area analysis points. Therefore detention is not required for the site.

SHEPHERD'S VILLAGE			2 Year						10 year						25 year						100 year					
D.A.	AREA	%IC	perv C		imp C		weighted C	perv C		imp C		weighted C	perv C		imp C		weighted C	perv C		imp C		weighted C				
ac																										
PROPOSED CONDITIONS DRAINAGE AREAS																										
DA-1	1.55	87.8%	0.24	0.05	0.97	1.32	0.88	0.28	0.05	0.97	1.32	0.89	0.31	0.06	0.97	1.32	0.89	0.36	0.07	0.97	1.32	0.90				
DA-2	0.23	48.2%	0.24	0.03	0.97	0.11	0.59	0.28	0.03	0.97	0.11	0.61	0.31	0.04	0.97	0.11	0.63	0.36	0.04	0.97	0.11	0.65				
DA-3	1.38	83.5%	0.24	0.05	0.97	1.12	0.85	0.28	0.06	0.97	1.12	0.86	0.31	0.07	0.97	1.12	0.86	0.36	0.08	0.97	1.12	0.87				
DA-4	0.22	58.3%	0.24	0.02	0.97	0.12	0.67	0.28	0.03	0.97	0.12	0.68	0.31	0.03	0.97	0.12	0.69	0.36	0.03	0.97	0.12	0.72				

DRAINAGE AREA	AREA (acres)	I.C. %	COMPOSITE C					A-C ₂	A-C ₁₀	A-C ₂₅	A-C ₁₀₀	SHEET FLOW				SHALLOW CONCENTRATED FLOW				CHANNELIZED FLOW				Cumulative Tc (min)	INTENSITY				DISCHARGE				
			C ₁₀	C ₂₅	C ₁₀₀	Length (ft)	Manning's (n)					Slope ft/ft	Tc (min)	Length (ft)	Manning's (n)	Paved/Unpaved	Slope ft/ft	Tc (min)	Length (ft)	Manning's (n)	Slope ft/ft	Velocity ft/s	Tc (min)		12yr (in/hr)	110yr (in/hr)	125yr (in/hr)	1100yr (in/hr)	Q 2 (cfs)	Q 10 (cfs)	Q 25 (cfs)	Q 100 (cfs)	
PROPOSED CONDITIONS DRAINAGE AREAS																																	
DA-1	1.55	87.8%	0.88	0.89	0.89	0.90	1.37	1.38	1.38	1.39	49	0.3	0.019	2.5	94	0.3	Unpaved	0.011	4.4	23	0.013	0.015	5.6	0.1	7.0	6.0	8.0	9.2	11.1	8.19	11.05	12.71	15.50
DA-2	0.23	48.2%	0.59	0.61	0.63	0.65	0.13	0.14	0.14	0.15	39	0.3	0.012	2.6	90	0.3	Unpaved	0.011	4.3	60	0.013	0.015	5.6	0.2	7.1	6.0	8.0	9.2	11.1	0.80	1.11	1.30	1.64
DA-3	1.38	83.5%	0.85	0.86	0.86	0.87	1.17	1.18	1.19	1.20	23	0.3	0.019	1.2	117	0.3	Unpaved	0.010	6.0	61	0.013	0.015	5.6	0.2	7.3	5.9	8.0	9.1	11.0	6.94	9.41	10.84	13.26
DA-4	0.22	58.3%	0.67	0.68	0.68	0.72	0.14	0.15	0.15	0.15	56	0.3	0.014	3.5	0	0.3	Unpaved	0.012	0.0	0	0.013	0.000	0.0	0.0	5.0	6.5	8.6	9.8	11.9	0.93	1.27	1.47	1.83

NOTE:
1) RUNOFF FROM ROOFTOPS SHALL BE COLLECTED FOR RAINWATER HARVESTING REQUIREMENTS PER TCEQ GUIDELINES.

NO
D.
ND

STATE OF TEXAS
MICHAEL S. FISHER
87704
7/12/24

PAPE-DAWSON ENGINEERS
AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
18001 N. MOPAC EXPY., BLDG. 3, STE. 200 | AUSTIN, TX 78758 | 512.664.6711
TCEQ FIRM REGISTRATION #470 | TCEQ FIRM REGISTRATION #10028601

SHEPHERD'S VILLAGE
502 W. 21ST GEORGETOWN, TX 78626
PROPOSED CONDITIONS DRAINAGE MAP

CITY JOB No. 2024-39-SDP
JOB NO. 51466-00
DATE MARCH 2024
DESIGNER BA/JS/AD
CHECKED AC DRAWN BA
SHEET 10 OF 54

ATTACHMENT I

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

INSPECTIONS & MAINTENANCE

Designated and qualified person(s) shall inspect Pollution Control Measures weekly and within 24 hours after a storm event. An inspection report that summarizes the scope of the inspection, names and qualifications of personnel conducting the inspection, date of the inspection, major observations, and actions taken as a result of the inspection will be recorded and maintained as part of Storm Water TPDES data for a period of three years after the Notice of Termination (NOT) has been filed. A copy of the Inspection Report Form is provided in this Storm Water Pollution Prevention Plan.

As a minimum, the inspector shall observe: (1) significant disturbed areas for evidence of erosion, (2) storage areas for evidence of leakage from the exposed stored materials, (3) structural controls (rock berm outlets, silt fences, drainage swales, etc.) for evidence of failure or excess siltation (over 6 inches deep), (4) vehicle exit point for evidence of off-site sediment tracking, (5) vehicle storage areas for signs of leaking equipment or spills, (6) concrete truck rinse-out pit for signs of potential failure, (7) embankment, spillways, and outlet of sediment basin (where applicable) for erosion damage, and (8) sediment basins (where applicable) for evidence that basin has accumulated 50% of its volume in silt. Deficiencies noted during the inspection will be corrected and documented within seven calendar days following the inspection or before the next anticipated storm event if practicable. Temporary sediment basins and permanent basins will be inspected until final stabilization of 70% within the basin watershed is achieved.

BMP inspection and maintenance requirements from sections 1.3 and 1.4 of TCEQ's Technical Guidance Manual are detailed below.

Temporary Construction Entrance/Exit

- The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

- All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.
- When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
- When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
- All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

Silt Fence

- Inspect all fencing weekly, and after any rainfall.
- Remove sediment when buildup reaches 6 inches.
- Replace any torn fabric or install a second line of fencing parallel to the torn section.
- Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.
- When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

Inlet Protection

- Inspection should be made weekly and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
- Remove sediment when buildup reaches a depth of 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
- Check placement of device to prevent gaps between device and curb.
- Inspect filter fabric and patch or replace if torn or missing.

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

- Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized.

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

Pollution Prevention Measure	In Compliance	Corrective Action Required	
		Description (use additional sheet if necessary)	Date Completed
<i>Best Management Practices</i>			
Natural vegetation buffer strips			
Temporary vegetation			
Permanent vegetation			
Sediment control basin			
Silt fences			
Rock berms			
Gravel filter bags			
Drain inlet protection			
Other structural controls			
Vehicle exits (off-site tracking)			
Material storage areas (leakage)			
Equipment areas (leaks, spills)			
Concrete washout pit (leaks, failure)			
General site cleanliness			
Trash receptacles			
<i>Evidence of Erosion</i>			
Site preparation			
Roadway or parking lot construction			
Utility construction			
Drainage construction			
Building construction			
<i>Major Observations</i>			
Sediment discharges from site			
BMPs requiring maintenance			
BMPs requiring modification			
Additional BMPs required			

_____ A brief statement describing the qualifications of the inspector is included in this SWP3.

"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 I am an authorized signatory in accordance with the provisions of 30 TAC §305.128."

Inspector's Name

Inspector's Signature

Date

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

PROJECT MILESTONE DATES

Date when major site grading activities begin:

Construction Activity	Date
Installation of BMPs	

Dates when construction activities temporarily or permanently cease on all or a portion of the project:

Construction Activity	Date

Dates when stabilization measures are initiated:

Stabilization Activity	Date
Removal of BMPs	

ATTACHMENT J

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Water Pollution Abatement Plan Application

SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Interim on-site stabilization measures, which are continuous, will include minimizing soil disturbances by exposing the smallest practical area of land required for the shortest period of time and maximizing use of natural vegetation. As soon as practical, all disturbed soil will be stabilized via permanent revegetation. Details, such as installation, irrigation, and maintenance are provided below.

Installation:

- Final grading must be completed prior to seeding, minimizing all steep slopes. In addition, all necessary erosion structures such as dikes, swales, diversions, should also be installed.
- Seedbed should be well pulverized, loose, and uniform.
- Fertilizer should be applied at the rate of 40 pounds of nitrogen and 40 pounds of phosphorus per acre, which is equivalent to about 1.0 pounds of nitrogen and phosphorus per 1000 square feet. Compost can be used instead of fertilizer and applied at the same time as the seed.

Irrigation:

- Temporary irrigation should be provided according to the schedule described below, or to replace moisture loss to evapotranspiration (ET), whichever is greater. Significant rainfall (on-site rainfall of ½" or greater) may allow watering to be postponed until the next scheduled irrigation.

Time Period	Irrigation Amount and Frequency
Within 2 hours of installation	Irrigate entire root depth, or to germinate seed
During the next 10 business days	Irrigate entire root depth every Monday, Wednesday, and Friday
During the next 30 business days or until Substantial Completion	Irrigate entire root depth a minimum of once per week, or as necessary to ensure vigorous growth
During the next 4 months or until Final Acceptance of the Project	Irrigate entire root depth once every two weeks, or as necessary to ensure vigorous growth

Inspection and Maintenance Guidelines:

- Permanent vegetation should be inspected weekly and after each rain event to locate and

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

repair any erosion.

- Erosion from storms or other damage should be repaired as soon as practical by regrading the area and applying new seed.
- If the vegetated cover is less than 80%, the area should be reseeded.

Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and except as provided below, will be initiated no more than fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practicable.

PERMANENT STORMWATER

Permanent Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(C), (D)(ii), (E), and (5), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Permanent Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Michael Fisher, P.E.

Date: 6/19/24

Signature of Customer/Agent



Regulated Entity Name: Shepherd's Village

Permanent Best Management Practices (BMPs)

Permanent best management practices and measures that will be used during and after construction is completed.

1. ☐ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
☒ N/A
2. ☐ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
☐ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____

☒ N/A

3. ☐ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

☒ N/A

4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.

☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.

☒ The site will not be used for low density single-family residential development.

5. The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

☒ **Attachment A - 20% or Less Impervious Cover Waiver.** The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.

☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.

☐ The site will not be used for multi-family residential developments, schools, or small business sites.

6. ☒ **Attachment B - BMPs for Upgradient Stormwater.**

- ☐ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
 - ☐ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
 - ☒ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.
7. ☒ **Attachment C - BMPs for On-site Stormwater.**
- ☐ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
 - ☒ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.
8. ☐ **Attachment D - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
- ☒ N/A
9. ☒ The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
- ☒ The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.
 - ☐ **Attachment E - Request to Seal Features.** A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.
10. ☒ **Attachment F - Construction Plans.** All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
- ☒ Design calculations (TSS removal calculations)
 - ☒ TCEQ construction notes
 - ☐ All geologic features
 - ☐ All proposed structural BMP(s) plans and specifications
- ☐ N/A

11. ☐ **Attachment G - Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
- ☐ Prepared and certified by the engineer designing the permanent BMPs and measures
 - ☐ Signed by the owner or responsible party
 - ☐ Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
 - ☐ A discussion of record keeping procedures
- ☒ N/A
12. ☐ **Attachment H - Pilot-Scale Field Testing Plan.** Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
- ☒ N/A
13. ☐ **Attachment I - Measures for Minimizing Surface Stream Contamination.** A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.
- ☐ N/A

Responsibility for Maintenance of Permanent BMP(s)

Responsibility for maintenance of best management practices and measures after construction is complete.

14. ☐ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
- ☒ N/A
15. ☐ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.
- ☒ N/A

ATTACHMENT A

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

20% or Less Impervious Cover Waiver

The Shepherd's Village project proposes the construction of six (6) duplexes on a single lot for multi-family residential use for Habitat of Humanity – Williamson County. Five of the six duplexes will have a water storage tank sized appropriately to store at least 1.5" of runoff for the rooftop square footage of the building. The total square footage for the duplexes that will be connected to rainfall harvesting systems is approximately 12,005 square feet. There is approximately an additional 2,789 square feet of impervious cover associated with the duplex unit that will not have a rooftop rainwater harvesting system and 5,244 square feet of impervious cover attributed to the driveways and walkups for each duplex, for a total of 8,033 square feet of impervious cover that will be left untreated. Without the use of the rooftop rainfall harvesting systems, the proposed impervious cover percentage of the site is 48.5%. However, since the impervious cover associated with rooftops connected to rainfall harvesting systems is not included in impervious cover calculations per RG-348, the resulting proposed impervious cover percentage of the site is 19.5%. Therefore, since the proposed use of the site is multi-family residential and the site has less than 20% impervious cover, we are requesting to waive the requirements for other permanent BMPs and measures.

ATTACHMENT B

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

BMPs for Upgradient Stormwater

This project has requested to waive the requirement for permanent BMPs on the basis of the percent impervious cover of the site being less than 20% and will be used for multi-family residential development. Therefore, no permanent BMPs are provided to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site.

ATTACHMENT C

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

BMPs for Onsite Stormwater

This project has requested to waive the requirement for permanent BMPs on the basis of the percent impervious cover of the site being less than 20% and will be used for multi-family residential development. Therefore, no permanent BMPs are provided to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff.

ATTACHMENT F

SHEPHERD'S VILLAGE

Water Pollution Abatement Plan Application

Attachment F – Construction Plans

See attached drawing set for relevant construction plans and design drawings for Shepherd's Village.

Date: Jul 12, 2024, 11:10am User ID: jalsylinger
File Path: Projects\51466\00-SDP Construction Documents\Civil\51466-00.dwg

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.

GENERAL NOTES

1. THESE CONSTRUCTION PLANS WERE PREPARED, SEALED, SIGNED AND DATED BY A TEXAS LICENSED PROFESSIONAL ENGINEER. THEREFORE BASED ON THE ENGINEER'S CONCURRENCE OF COMPLIANCE, THE CONSTRUCTION PLANS FOR CONSTRUCTION OF THE PROPOSED PROJECT ARE HEREBY APPROVED SUBJECT TO THE STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS MANUAL AND ALL OTHER APPLICABLE CITY, STATE, AND FEDERAL REQUIREMENTS AND CODES.
2. THIS PROJECT IS SUBJECT TO ALL CITY STANDARD SPECIFICATIONS AND DETAILS AND UDC REGULATIONS IN EFFECT AT THE TIME OF SUBMITTAL OF THE PROJECT TO THE CITY.
3. THE SITE CONSTRUCTION PLANS SHALL MEET ALL REQUIREMENTS OF THE APPROVED SITE PLAN.
4. WASTEWATER MAINS AND SERVICE LINES SHALL BE SDR 26 PVC.
5. WASTEWATER MAINS SHALL BE INSTALLED WITHOUT HORIZONTAL OR VERTICAL BENDS.
6. MAXIMUM DISTANCE BETWEEN WASTEWATER MANHOLES IS 500 FEET.
7. WASTEWATER MAINS SHALL BE LOW PRESSURE AIR TESTED AND MANDREL TESTED BY THE CONTRACTOR ACCORDING TO CITY OF GEORGETOWN AND TCEQ REQUIREMENTS.
8. WASTEWATER MANHOLES SHALL BE VACUUM TESTED AND COATED BY THE CONTRACTOR ACCORDING TO CITY OF GEORGETOWN AND TCEQ REQUIREMENTS.
9. WASTEWATER MAINS SHALL BE CAMERA TESTED BY THE CONTRACTOR AND SUBMITTED TO THE CITY IN DVD FORMAT PRIOR TO PAVING THE STREETS.
10. PRIVATE WATER SYSTEM FIRE LINES SHALL BE TESTED BY THE CONTRACTOR TO 200 PSI FOR 2 HOURS.
11. PRIVATE WATER SYSTEM FIRE LINES SHALL BE DUCTILE IRON PIPING FROM THE WATER MAIN TO THE BUILDING SPRINKLER SYSTEM, AND 200 PSI C900 PVC FOR ALL OTHERS.
12. PUBLIC WATER SYSTEM FIRE LINES SHALL BE 150 PSI C900 PVC AND TESTED BY THE CONTRACTOR AT 200 PSI FOR 15 MINUTES AND 150 PSI FOR 2 HOURS.
13. ALL BENDS AND CHANGES IN DIRECTIONS ON WATER MAINS SHALL BE RESTRAINED AND THRUST BLOCKED.
14. LONG FIRE HYDRANT LEADS SHALL BE RESTRAINED.
15. ALL WATER LINES ARE TO BE BACTERIA TESTED BY THE CONTRACTOR ACCORDING TO THE CITY STANDARDS AND SPECIFICATIONS.
16. WATER AND SEWER MAIN CROSSINGS SHALL MEET ALL REQUIREMENTS OF THE TCEQ AND THE CITY.
17. FLEXIBLE BASE MATERIAL FOR PUBLIC STREETS SHALL BE TxDOT TYPE A GRADE 1.
18. HOT MIX ASPHALTIC CONCRETE PAVEMENT SHALL BE TYPE D UNLESS OTHERWISE SPECIFIED AND SHALL BE A MINIMUM OF 2 INCHES THICK ON PUBLIC STREETS AND ROADWAYS.
19. ALL SIDEWALK RAMPS AND PUBLIC AREA SIDEWALKS (I.E., NOT ADJACENT TO INDIVIDUAL LOTS) ARE TO BE INSTALLED WITH THE PUBLIC INFRASTRUCTURE.
20. A MAINTENANCE BOND IS REQUIRED TO BE SUBMITTED TO THE CITY PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS. THIS BOND SHALL BE ESTABLISHED FOR 2 YEAR IN THE AMOUNT OF 10% OF THE COST OF THE PUBLIC IMPROVEMENTS AND SHALL FOLLOW THE CITY FORMAT.
21. RECORD DRAWINGS OF THE PUBLIC IMPROVEMENTS SHALL BE SUBMITTED TO THE CITY BY THE DESIGN ENGINEER PRIOR TO ACCEPTANCE OF THE PROJECT. THESE DRAWINGS SHALL BE A PDF EMAILED TO THE CITY DEVELOPMENT ENGINEER.
22. THE CITY OF GEORGETOWN SHALL BE CONTACTED 48 HOURS IN ADVANCE FOR CONNECTIONS AND TESTING.

GENERAL NOTES - SIDEWALKS

1. SIDEWALKS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE T.A.S. AS ADMINISTERED BY THE TDLR ("TDLR COMPLAINT").
2. SIDEWALKS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UDC, SECTION 12.02.020.

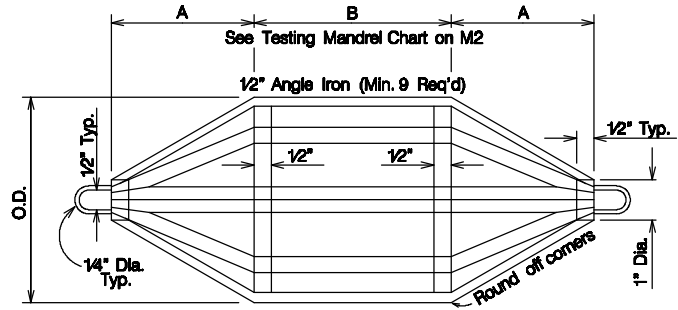
GEOMETRIC AND DESIGN STANDARDS FOR SIDEWALKS

DESIGN AND CONSTRUCTION OF SIDEWALKS SHALL OCCUR IN COMPLIANCE WITH THE FOLLOWING STANDARDS:

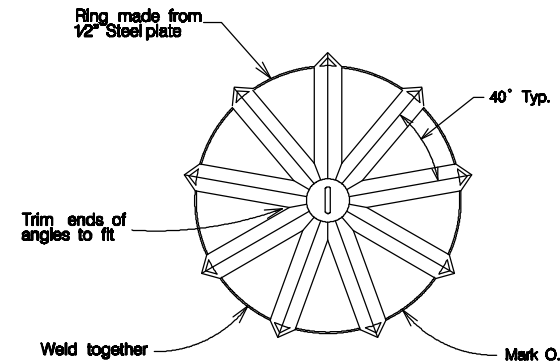
- A. IN ORDER TO PROVIDE SAFE AND ADEQUATE ACCESS ON CITY SIDEWALKS, ALL SIDEWALKS SHALL MEET MINIMUM CLEAR WIDTH REQUIREMENTS AROUND ALL OBSTRUCTIONS, NATURAL OR MANMADE, AS DESCRIBED HEREIN. CLEAR WIDTH SHALL MEAN THE DISTANCE AS MEASURED FROM THE OUTSIDE EDGE OF THE OBSTRUCTION TO THE OUTSIDE EDGE OF THE SIDEWALK OR FROM THE INSIDE EDGE OF THE OBSTRUCTION TO THE INSIDE EDGE OF THE SIDEWALK. IF THE CLEAR WIDTH IS TO BE OBTAINED BETWEEN THE INSIDE EDGE OF THE SIDEWALK AND OBSTRUCTION, GIVEN THAT THE SIDEWALK IS PLACED AGAINST THE BACK OF CURB, THE CLEAR WIDTH SHALL BE A MINIMUM OF FIVE FEET. IN ALL OTHER CASES, THE MINIMUM CLEAR WIDTH SHALL BE FOUR FEET.
- B. ALL SIDEWALKS SHALL MEET CITY STANDARDS AND SPECIFICATIONS. SIDEWALKS MAY BE PLACED SO THAT THEY VARY THE DISTANCE FROM BACK OF CURB, PROVIDED THAT THE MINIMUM WIDTH AND DISTANCE FROM BACK OF CURB IS NOT REDUCED.
- C. GIVEN THAT A COMBINATION OR VARIATION FROM THE TWO PLACEMENT METHODS IS NECESSARY OR DESIRED OR THAT AN OBSTRUCTION IS LOCATED WITHIN THE PAVED AREA, THE FOLLOWING CRITERIA SHALL BE SATISFIED:
 1. ALL RADII IN THE TRANSITION SECTION SHALL BE A MINIMUM OF TEN FEET.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER POLLUTION ABATEMENT PLAN GENERAL CONSTRUCTION NOTES

1. WRITTEN CONSTRUCTION NOTIFICATION MUST BE GIVEN TO THE APPROPRIATE TCEQ REGIONAL OFFICE NO LATER THAN 48 HOURS PRIOR TO COMMENCEMENT OF THE REGULATED ACTIVITY. INFORMATION ON THE DATE ON WHICH THE REGULATED ACTIVITY WILL COMMENCE, THE NAME OF THE APPROVED PLAN FOR THE REGULATED ACTIVITY, AND THE NAME OF THE PRIME CONTRACTOR AND THE NAME AND TELEPHONE NUMBER OF THE CONTACT PERSON.
 2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.
 3. IF ANY SENSITIVE FEATURE IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPROPRIATE TCEQ REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. THE REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PROCEED UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM ANY POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.
 4. NO TEMPORARY ABOVEGROUND HYDROCARBON AND HAZARDOUS SUBSTANCE STORAGE TANK SYSTEM MAY BE INSTALLED WITHIN 150 FEET OF A DOMESTIC, INDUSTRIAL, IRRIGATION, OR PUBLIC WATER SUPPLY WELL, OR OTHER SENSITIVE FEATURE.
 5. PRIOR TO COMMENCEMENT OF CONSTRUCTION, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS' SPECIFICATIONS AND GOOD ENGINEERING PRACTICES. CONTROLS SPECIFIED IN THE TEMPORARY STORM WATER SECTION OF THE APPROVED EDWARDS AQUIFER PROTECTION PLAN ARE REQUIRED DURING CONSTRUCTION. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THE CONTROLS MUST REMAIN IN PLACE UNTIL DISTURBED AREAS ARE REVEGETATED AND THE AREAS HAVE BECOME PERMANENTLY STABILIZED.
 6. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS TO WATER QUALITY (E.G., FUGITIVE SEDIMENT IN STREET BEING WASHED INTO SURFACE STREAMS OR SENSITIVE FEATURES BY THE NEXT RAIN).
 7. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS NOT LATER THAN WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%. A PERMANENT STAKE MUST BE PROVIDED THAT CAN INDICATE WHEN THE SEDIMENT OCCUPIES 50% OF THE BASIN VOLUME.
 8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES (E.G., SCREENING OUTFALLS, PICKED UP DAILY).
 9. ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON SITE WITH PROPER E&S CONTROLS. FOR STORAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZONE, THE OWNER OF THE SITE MUST RECEIVE APPROVAL OF A WATER POLLUTION ABATEMENT PLAN FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRADING PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.
 10. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARY OR PERMANENTLY CEASE IS PRECLUDED BY WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE. IN AREAS EXPERIENCING DROUGHTS WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SEASONAL ARID CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
 11. THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
 12. THE HOLDER OF ANY APPROVED EDWARDS AQUIFER PROTECTION PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
 - A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY WATER POLLUTION ABATEMENT STRUCTURE(S), INCLUDING BUT NOT LIMITED TO PONDS, DAMS, BERMS, SEWAGE TREATMENT PLANTS, AND DIVERSIONARY STRUCTURES;
 - B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE ABILITY OF THE PLAN TO PREVENT POLLUTION OF THE EDWARDS AQUIFER;
 - C. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE ORIGINAL WATER POLLUTION ABATEMENT PLAN.
- TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
12100 PARK 35 CIRCLE, BLDG. A, AUSTIN, TX 78753
PHONE: (512) 339-2929
FAX: (512) 339-3795



SIDE OR TOP VIEW



END VIEW

Note:
Mandrels must be approved by City of Georgetown Construction Inspections and stamped before use.

GO, NO GO DEFLECTION
TESTING MANDREL

M-1

		MANDREL O.D.		RING O.D.	
SIZE	A	B*	PVC (SDR-26)	PVC (SDR-26)	PVC (SDR-26)
6"	4.0"	4.5"	5.60	4.78	
8"	5.5"	6"	7.37	6.66	
10"	7.0"	7.5"	9.12	8.60	
12"	8.0"	8"	10.88	10.26	
15"	10.0"	11"	13.42	12.71	
18"	12.0"	13.5"			
21"	14.0"	15"			
24"	16.0"	18"			
27"	18.0"	20"			

* Minimum Length
CHART

Note:
PVC pipes and fittings 6" to 18" in diameter shall conform to ASTM D-3034.
PVC pipes and fittings 18" to 27" in diameter shall conform to ASTM F-409.

This information is provided as a reference. All deflection testing shall be done in accordance with TCEQ Chapter 217.

GO, NO GO DEFLECTION
TESTING MANDREL CHART

M-2

**PAPE-DAWSON
ENGINEERS**

AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
18067 N. MOHAWK EXPY., SUITE 3, STE 200 | AUSTIN, TX 78759 | 512.664.6711
TCEQ FIRM REGISTRATION #420 | TCEQ FIRM REGISTRATION #10028601

SHEPHERD'S VILLAGE

502 W. 21ST GEORGETOWN,
TX 78626

CONSTRUCTION NOTES

CITY JOB No. 2024-39-SDP

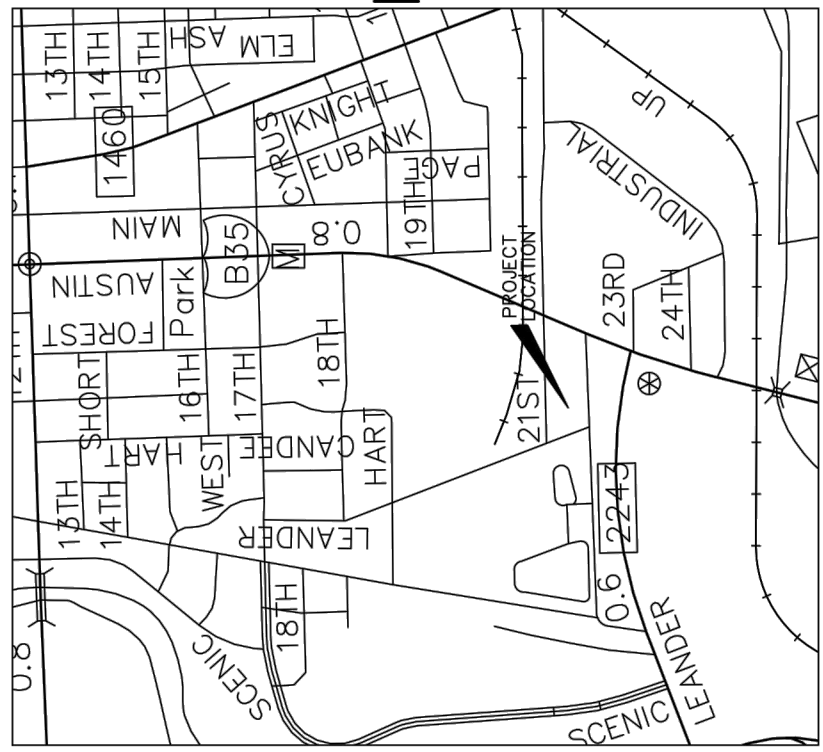
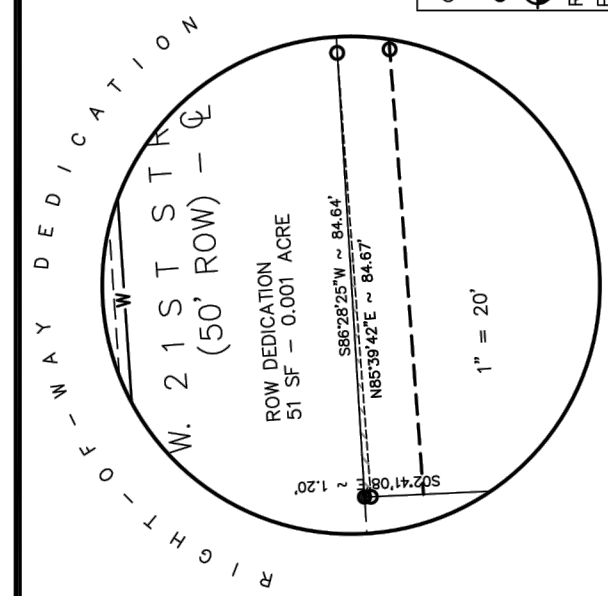
JOB NO. 51466-00

DATE MARCH 2024

DESIGNER BA/JS/AD

CHECKED AC DRAWN BA

SHEET 2 OF 54



GENERAL NOTES:

1. Utility providers for this development are Water: City of Georgetown, Wastewater: City of Georgetown, and Electric: GUS (Georgetown Utility Systems) Electric.
2. All structures/obstructions are prohibited in drainage easements (if applicable).
3. There are no areas within the boundaries of this subdivision in the 10-year floodplain as defined by FEMA Map Number 48491C0465 F; effective date December 20, 2019.
4. In order to promote drainage away from a structure, this slab elevation should be built at least one-foot above the surrounding ground, and the ground should be graded away from the structure at a slope of 1/2 inch per foot for a distance of 10 feet.
5. All sedimentation, filtration, detention, and/or retention basins and related appurtenances shown shall be situated within a drainage easement or drainage lot. The owners, HOA, or assignees of the tracts upon which are located such easements, appurtenances, and detention facilities shall maintain same and be responsible for their maintenance, routine inspection and upkeep.
6. Parkway dedication requirements are being met by fee-in-lieu.
7. A 10-foot public utility easement is dedicated along all street frontages within this plat.
8. The monuments of this plat have been related to the NAD 83/03 HARN - Texas Central Zone and of 1,000.12, to convert to grid values user must divide by combined scale factor.
9. The maximum impervious coverage per residential lot is 45% (percent).
10. The landowner assumes all risks associated with improvements located in the right-of-way or right-of-use easements. By placing anything in the right-of-way, or road widening easements, the landowner indemnifies and holds the City of Georgetown, Williamson County, their officers, agents, and employees harmless from any liability owing to property defects or negligence not attributable to them and acknowledges that the improvements may be removed by the City and/or County and that the owner of the improvements will be responsible for the relocation and/or replacement of the improvements.
11. The building of all streets, roads, and other public thoroughfares and any bridges or culverts necessary to be constructed or placed is the responsibility of the owners of the tract of land covered by this plat in accordance with the plans and specifications prescribed by the City of Georgetown and/or Williamson County, Texas. Neither the City of Georgetown nor Williamson County assumes any obligation to build any of the streets, roads, or other public thoroughfares shown on this plat or of constructing any of the bridges or drainage easements shown on this plat. The City of Georgetown and/or Williamson County does not assume any responsibility for drainage ways or easements in the subdivision, other than those draining and protecting the road system and streets in their respective jurisdictions.
12. Neither the City of Georgetown nor Williamson County assumes any responsibility for the accuracy of representations by other parties in this plat. Floodplain data, in particular may change over time due to changes in water levels, weather conditions, and/or other factors. The City of Georgetown and/or Williamson County does not warrant any traffic control devices and signage that may be required before the streets in the subdivision have finally been accepted for maintenance by the City and/or County.
13. Right-of-way easements for widening roadways or improving drainages shall be maintained by the landowner until road or drainage improvements are actually constructed on the property. Otherwise noted County have the right at any time to take possession of any road needing easement for construction, improvement, or maintenance of the adjacent road.
14. Unless otherwise noted herein, all easements dedicated to the City of Georgetown by this plat shall be EXCLUSIVE to the City of Georgetown, and Grantor covenants that Grantor and Grantor's heirs, successors, and assigns shall not convey any other easement, license, or conflicting right to use in any manner, the area (or any portion thereof) covered by this grant.
15. All easements dedicated to the City of Georgetown by this plat additionally include the following rights: (1) the right of the City to change the size of any facilities installed, maintained, or operated within the easement area; (2) the right of the City to relocate any facilities within the easement area; and (3) the right of the City to remove from the easement area all trees and parts thereof, or other obstructions, which endanger or may interfere with the efficiency and maintenance of any facilities within the easement area.
16. This plat is subject to the provisions of the City of Georgetown Water Conservation Ordinance.
17. The Subdivision subject to this application is subject to the Water Quality Regulations of the City of Georgetown.
18. A Geologic Assessment, in accordance with the City of Georgetown Water Quality Regulations was completed on JULY 29, 2021. Any springs and streams as identified in the Geologic Assessment are shown herein.
19. Any heritage tree as noted on this plat is subject, in perpetuity, to the maintenance, care, pruning and removal requirements of the city of Georgetown. approved removal does not require modification/modification of the plat.
20. All individual lots containing heritage trees are configured and designed so that the lot is developable for the intended purpose without requiring the removal of the heritage trees or exceeding percentage of allowable disturbance within the heritage trees etc.

Z:\AUTOCAD\ENGINEERING PAPE DAWSON\21-633 501 W. 21ST STREET GEORGETOWN TX\CAD FILES OTHERS\Shepherds Village MP.dwg 7/2/2024 2:48 PM

FIELD NOTES:

[illegible]

NOTE: BEARINGS AND COORDINATES RECITED HEREIN BASED ON TEXAS PLANE COORDINATE SYSTEM (CENTRAL ZONE) NAD 83 ADJUSTMENT AND ARE EXPRESSED AS SURFACE VALUES USING COMBINED SCALE FACTOR OF 1.00012.

OWNERS' CERTIFICATION:

STATE OF TEXAS § KNOW ALL MEN BY THESE PRESENTS;

[illegible]

TO CERTIFY WHICH, WITNESS by my hand this ____ day of _____, 20__.

HABITAT OF HUMANITY OF WILLIAMSON COUNTY TEXAS
BY DEBBIE HOFFMAN, AUTHORIZED REPRESENTATIVE
502 W. 21ST STREET
GEORGETOWN, TX 78626

STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS;

Before me, the undersigned, a notary public in and for said county and state, on this day personally appeared _____, known to me to be the person whose name is subscribed to the foregoing instrument.

GIVEN UNDER MY HAND AND SEAL of office this ____ day of _____, 20 ____.

Notary Public in and for the State of Texas
My Commission expires on: _____.

I, Nancy Rister, Clerk of the County Court of said County, do hereby certify that the foregoing instrument in writing, with its certificate of authentication was filed for record in my office on the _____ day of _____, 20____ A.D., at _____ o'clock, _____ M., and duly recorded this the _____ day of _____, 20____ A.D., at _____ o'clock, _____ M., in the Official Public Records of said County in Document No. _____.

TO CERTIFY WHICH, WITNESS my hand and seal at the County Court of said County, at my office in Georgetown, Texas, the date last shown above written.

Nancy Rialter, Clerk
County Court of Williamson County, Texas

By: Deputy 2024-XX-FP

2024-XX-FP

2024-10-FP

SHEPHERD'S VILLAGE

502 W. 21ST GEORGETOWN,

TX 78626

PLAT



**PAPE-DAWSON
ENGINEERS**

AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS

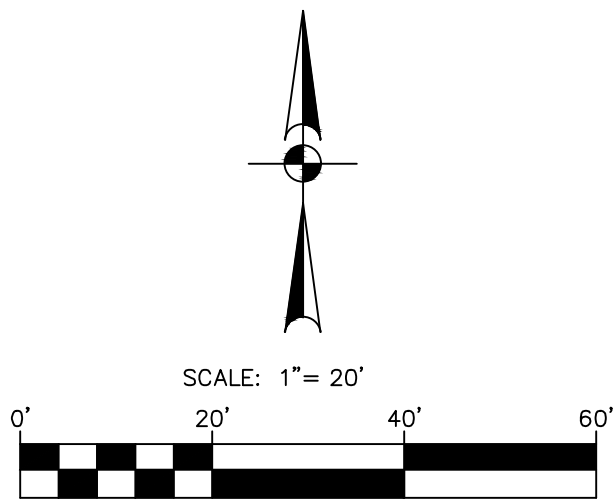
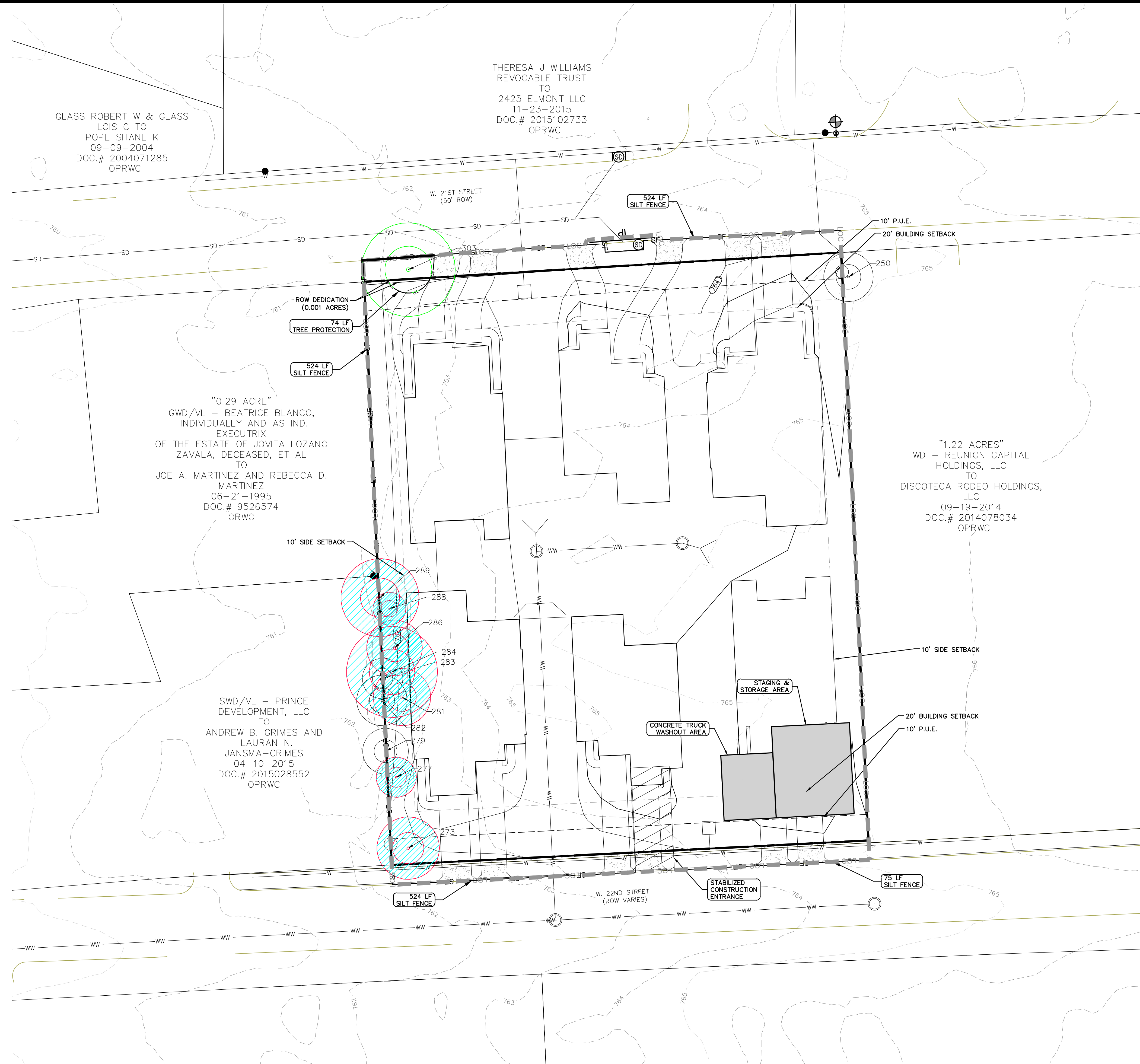
10801 N MOPAC EXPY, BLDG 3, STE 200 | AUSTIN, TX 78759 | 512.454.8711

[illegible]

CITY JOB No. 2024-39-SDP
JOB NO. 51466-00
DATE MARCH 2024
DESIGNER BA/JS/AD
CHECKED AC DRAWN BA
SHEET 3 OF 54

Date: Jul 12, 2024, 11:22am User ID: jstaylor
File Path: Projects\514\500\301 Construction Documents\514\500\301\51466-00.dwg

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARD COPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.



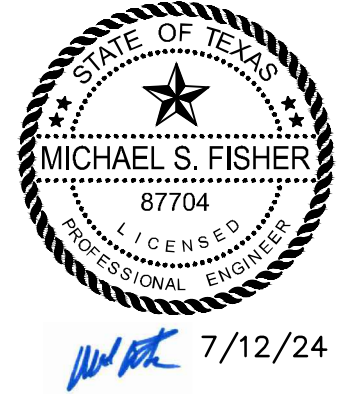
LEGEND	
	PROPOSED CONTOURS
	EXISTING CONTOURS
	BOUNDARY LINE
	LOC
	LIMITS OF CONSTRUCTION
	SILT FENCE
	TREE PROTECTION
	STABILIZED CONSTRUCTION ENTRANCE
	ROCK BERM
	FLOW ARROW

- NOTES:
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE ASSOCIATED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
 - ANY DIRT, MUD, ROCK, DEBRIS, ETC. THAT IS SPILLED, TRACKED, OR OTHERWISE DEPOSITED ON ANY EXISTING PAVED STREETS SHALL BE CLEANED UP IMMEDIATELY.
 - ALL DISTURBED AREAS SHALL BE REVEGETATED.
 - CONTRACTOR TO PRESERVE ALL TREES OUTSIDE THE LIMITS OF CONSTRUCTION SHOWN ON THIS SHEET.

TREE NUMBER	TREE TYPE	DIAMETER	REMOVED	PROTECTED	NOT PROTECTED	REASON FOR REMOVAL
250	HACK	9.5			9.5	
273	HACK	12	12			LAYOUT/CONFLICT
277	HACK	7.7	7.7			LAYOUT/CONFLICT
279	HACK	8.8			8.8	
281	HACK	11	11			LAYOUT/CONFLICT
282	HACK	9.7			9.7	
283	HACK	7.8			7.8	
284	HACK	17.5	17.5			LAYOUT/CONFLICT
286	HACK	10.7	10.7			LAYOUT/CONFLICT
288	HACK	6.3	6.3			LAYOUT/CONFLICT
289	HACK	15	15			LAYOUT/CONFLICT
303	OAK	18		18		

SHEPHERD'S VILLAGE
502 W. 21ST GEORGETOWN,
TX 78626
EROSION AND SEDIMENTATION CONTROL PLAN

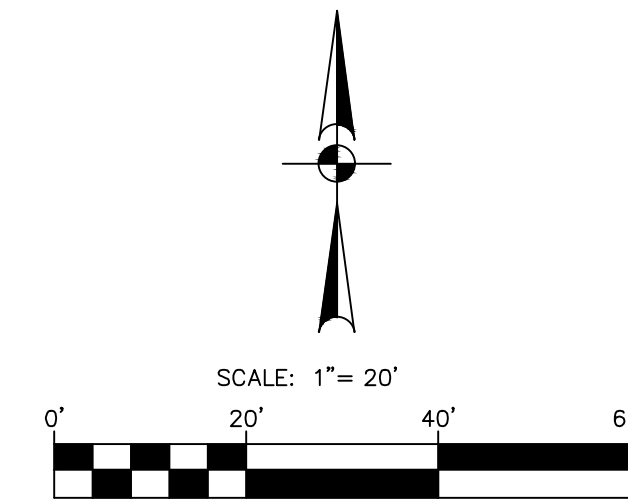
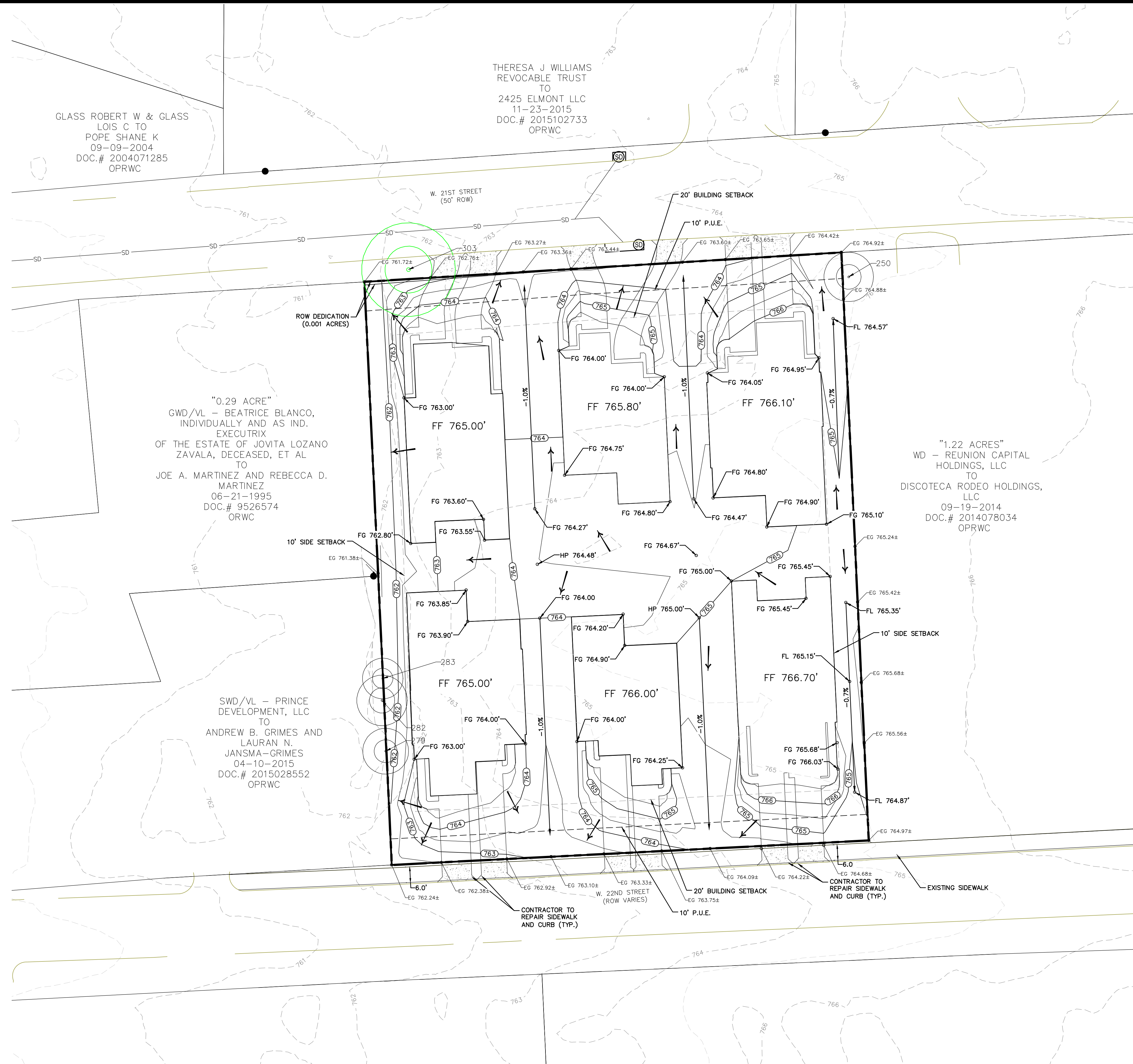
CITY JOB No. 2024-39-SDP
JOB NO. 51466-00
DATE MARCH 2024
DESIGNER BA/JS/AD
CHECKED AC DRAWN BA
SHEET 5 OF 54



PAPE-DAWSON ENGINEERS
AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
1800 N. MOPAC EXPY., SUITE 3, STE 200 | AUSTIN, TX 78709 | 512.464.6711
TYPE FIRM REGISTRATION #420 | TYPE FIRM REGISTRATION #10028601

Date: Jul 12, 2024, 11:32am User ID: jstysinger
File: H:\Projects\51466\00\301 Construction Documents\Civil\051466-00.dwg

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LEGEND	
	PROPOSED CONTOURS
	EXISTING CONTOURS
	PROPERTY LINE
	FINISH GRADE
	EXISTING GRADE

NO.	REVISION	DATE

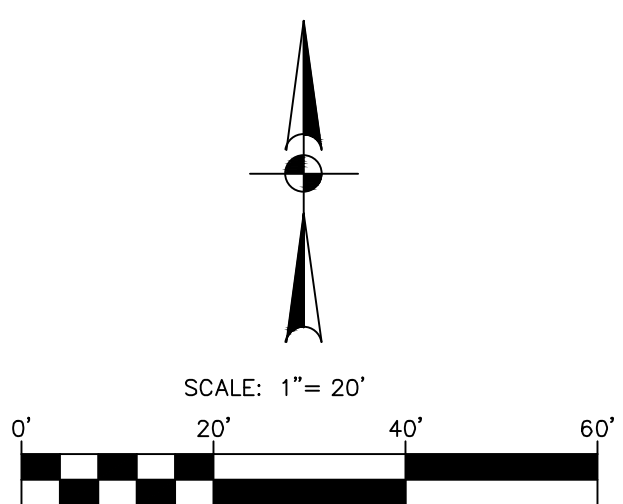
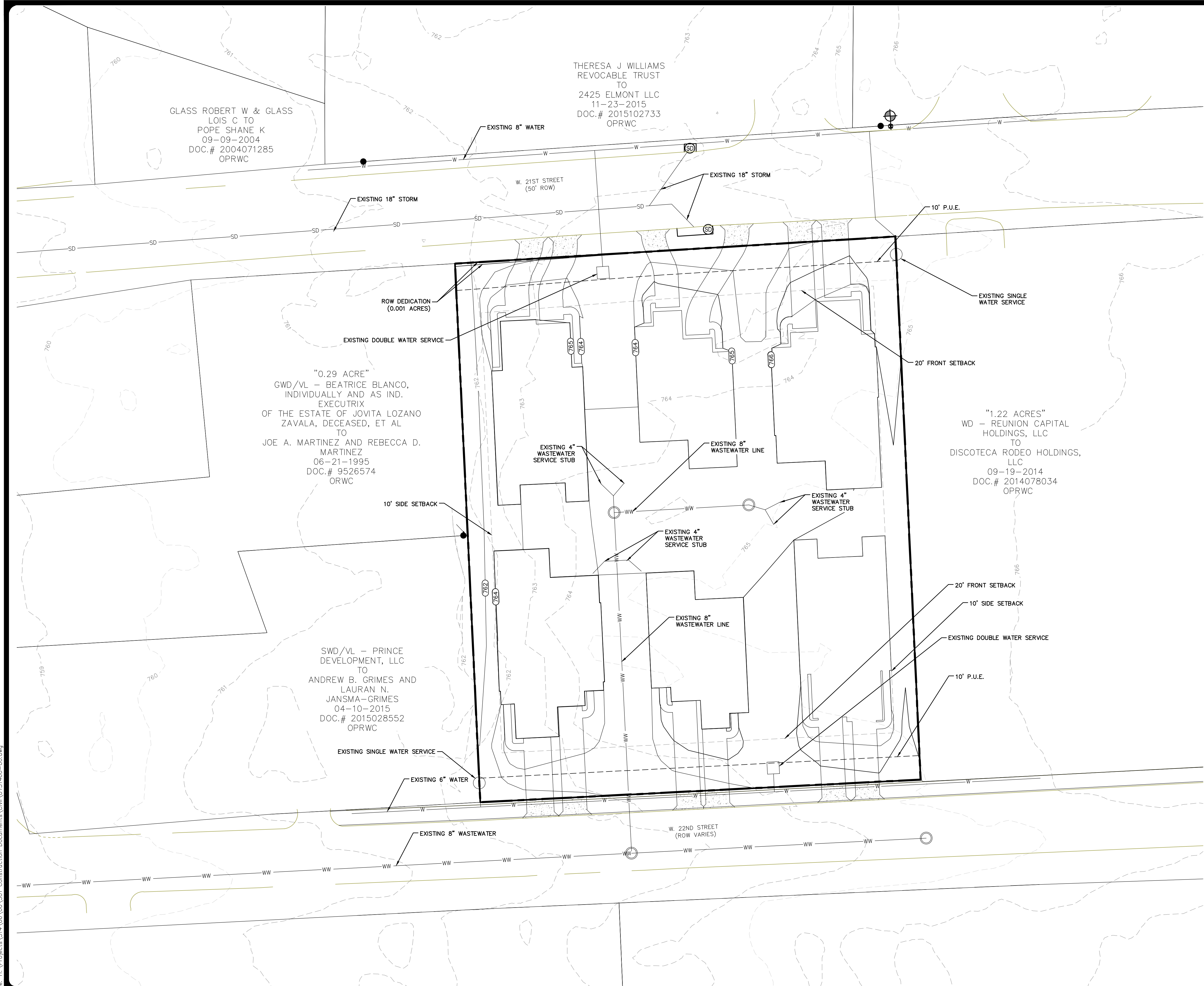


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ENGINEERS**
AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
18001 N. MOORE AVE., SUITE 300, AUSTIN, TX 78758 | 512.464.6711
TYPE FIRM REGISTRATION #470 | TYPE FIRM REGISTRATION #10028601

SHEPHERD'S VILLAGE
502 W. 21ST GEORGETOWN,
TX 78626
GRADING PLAN

CITY JOB No.	2024-39-SDP
JOB NO.	51466-00
DATE	MARCH 2024
DESIGNER	BA/JS/AD
CHECKED	AC DRAWN BA
SHEET	7 OF 54

Date: Jul 12, 2024, 12:55pm User ID: jstysinger
File Path: Projects\51466\00\301 Construction Documents\DWG\UTS1466-00.dwg



- LEGEND
- SINGLE WATER SERVICE
 - DOUBLE WATER SERVICE
 - EXISTING WATER LINE
 - EXISTING WASTEWATER LINE

- NOTES:
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE ASSOCIATED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
 - EXISTING FIRE HYDRANT 75' NORTH OF SITE AT THE INTERSECTION 19TH AND LENDER STREET.
 - PROJECT SITE IS LOCATED WITHIN THE 906' PRESSURE PLANE. HIGHEST PRESSURE IS 62 PSI AT EXISTING SINGLE WATER SERVICE IN SOUTHWESTERN CORNER OF PROPERTY. NO PRVS ARE REQUIRED.

NO.	REVISION	DATE



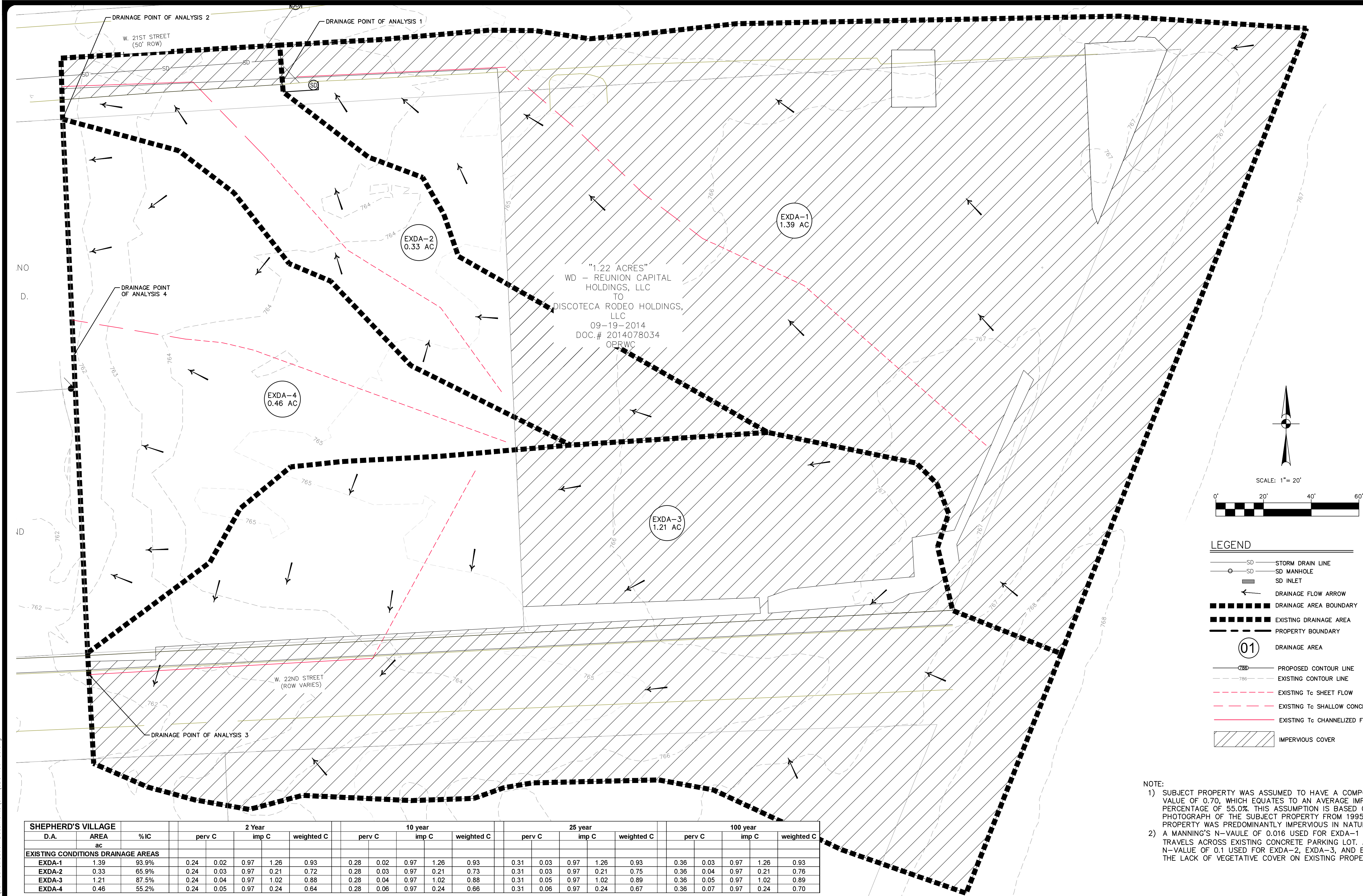
**PAPE-DAWSON
ENGINEERS**

AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
18001 N. MOPAC EXPY., SUITE 3, SITE 200 | AUSTIN, TX 78759 | 512.464.6711
TYPE FIRM REGISTRATION #470 | TYPE FIRM REGISTRATION #10028601

SHEPHERD'S VILLAGE
502 W. 21ST GEORGETOWN,
TX 78626
UTILITY PLAN

CITY JOB No.	2024-39-SDP
JOB NO.	51466-00
DATE	MARCH 2024
DESIGNER	BA/JS/AD
CHECKED	AC DRAWN BA
SHEET	8 OF 54

Date: Jul 12, 2024, 1:20pm User ID: jstysinger
File Path: Projects\51466\00-SDP Construction Documents\DWG\0051466-00.dwg



SHEPHERD'S VILLAGE			2 Year						10 year						25 year						100 year					
D.A.	AREA	% IC	perv C		imp C		weighted C	perv C		imp C		weighted C	perv C		imp C		weighted C	perv C		imp C		weighted C				
ac																										
EXISTING CONDITIONS DRAINAGE AREAS																										
EXDA-1	1.39	93.9%	0.24	0.02	0.97	1.26	0.93	0.28	0.02	0.97	1.26	0.93	0.31	0.03	0.97	1.26	0.93	0.36	0.03	0.97	1.26	0.93				
EXDA-2	0.33	65.9%	0.24	0.03	0.97	0.21	0.72	0.28	0.03	0.97	0.21	0.73	0.31	0.03	0.97	0.21	0.75	0.36	0.04	0.97	0.21	0.76				
EXDA-3	1.21	87.5%	0.24	0.04	0.97	1.02	0.88	0.28	0.04	0.97	1.02	0.88	0.31	0.05	0.97	1.02	0.89	0.36	0.05	0.97	1.02	0.89				
EXDA-4	0.46	55.2%	0.24	0.05	0.97	0.24	0.64	0.28	0.06	0.97	0.24	0.66	0.31	0.06	0.97	0.24	0.67	0.36	0.07	0.97	0.24	0.70				

DRAINAGE AREA	AREA (acres)	I.C. %	COMPOSITE C				A-C ₂	A-C ₁₀	A-C ₂₅	A-C ₁₀₀	SHEET FLOW				SHALLOW CONCENTRATED FLOW				CHANNELIZED FLOW				Cumulative	INTENSITY				DISCHARGE					
			C ₁₀	C ₂₅	C ₁₀₀	Length (ft)					Manning's (n)	Slope ft/ft	Tc (min)	Length (ft)	Manning's (n)	Paved/Unpaved	Slope ft/ft	Tc (min)	Length (ft)	Manning's (n)	Slope ft/ft	Velocity ft/s		Tc (min)	Tc (min)	I 2yr (in/hr)	I 10yr (in/hr)	I 25yr (in/hr)	I 100yr (in/hr)	Q 2 (cfs)	Q 10 (cfs)	Q 25 (cfs)	Q 100 (cfs)
EXISTING CONDITION DRAINAGE AREAS																																	
EXDA-1	1.39	93.9%	0.93	0.93	0.93	1.28	1.29	1.29	1.29	148	0.016	0.004	0.9	70	0.016	Paved	0.03	0.1	88	0.013	0.011	4.8	0.3	5.0	6.5	8.6	9.8	11.9	8.32	11.12	12.69	15.37	
EXDA-2	0.33	65.9%	0.72	0.73	0.75	0.76	0.24	0.24	0.24	0.25	142	0.1	0.013	2.9	40	0.1	Unpaved	0.02	0.5	57	0.013	0.025	7.2	0.1	5.0	6.5	8.6	9.8	11.9	1.53	2.08	2.40	2.96
EXDA-3	1.21	87.5%	0.88	0.88	0.89	0.89	1.06	1.07	1.07	1.08	90	0.1	0.016	1.7	0	0.1	Unpaved	0.00	0.0	119	0.013	0.015	5.6	0.4	5.0	6.5	8.6	9.8	11.9	6.87	9.22	10.54	12.82
EXDA-4	0.46	55.2%	0.64	0.66	0.67	0.70	0.29	0.30	0.31	0.32	142	0.1	0.007	4.0	48	0.1	Unpaved	0.05	0.4	0	0.013	0.000	0.0	0.0	5.0	6.5	8.6	9.8	11.9	1.90	2.60	3.02	3.77

- NOTE:
- SUBJECT PROPERTY WAS ASSUMED TO HAVE A COMPOSITE 100-YR C VALUE OF 0.70, WHICH EQUATES TO AN AVERAGE IMPERVIOUS COVER PERCENTAGE OF 55.0%. THIS ASSUMPTION IS BASED ON AN AERIAL PHOTOGRAPH OF THE SUBJECT PROPERTY FROM 1995 INDICATING THE PROPERTY WAS PREDOMINANTLY IMPERVIOUS IN NATURE.
 - A MANNING'S N-VALUE OF 0.016 USED FOR EXDA-1 SINCE TC PATH TRAVELS ACROSS EXISTING CONCRETE PARKING LOT. A MANNING'S N-VALUE OF 0.1 USED FOR EXDA-2, EXDA-3, AND EXDA-4 DUE TO THE LACK OF VEGETATIVE COVER ON EXISTING PROPERTY.

NO.	REVISION	DATE



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ENGINEERS**

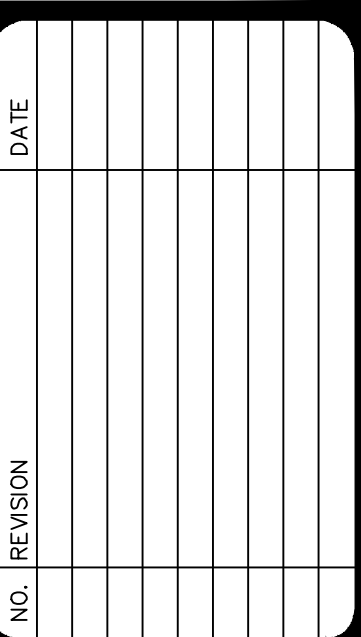
AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
18001 N. MOPAC EXPY., SUITE 300 | AUSTIN, TX 78758 | 512.644.6711
TYPE FIRM REGISTRATION #470 | TYPE FIRM REGISTRATION #10028601

SHEPHERD'S VILLAGE

502 W. 21ST GEORGETOWN,
TX 78626

EXISTING CONDITIONS DRAINAGE MAP

CITY JOB No. 2024-39-SDP
JOB NO. 51466-00
DATE MARCH 2024
DESIGNER BA/JS/AD
CHECKED AC DRAWN BA
SHEET 9 OF 54



AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
10801 N MOPAC EXPY, BLDG 3, STE 200 | AUSTIN, TX 78759 | 512.454.8711
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028601

502 W. 21ST GEORGETOWN,

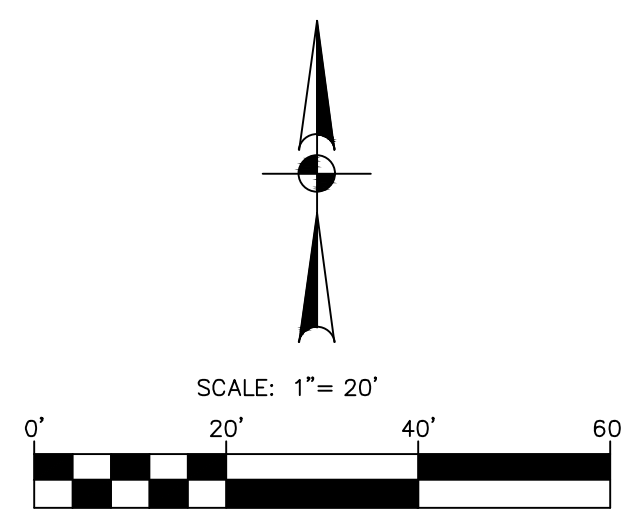
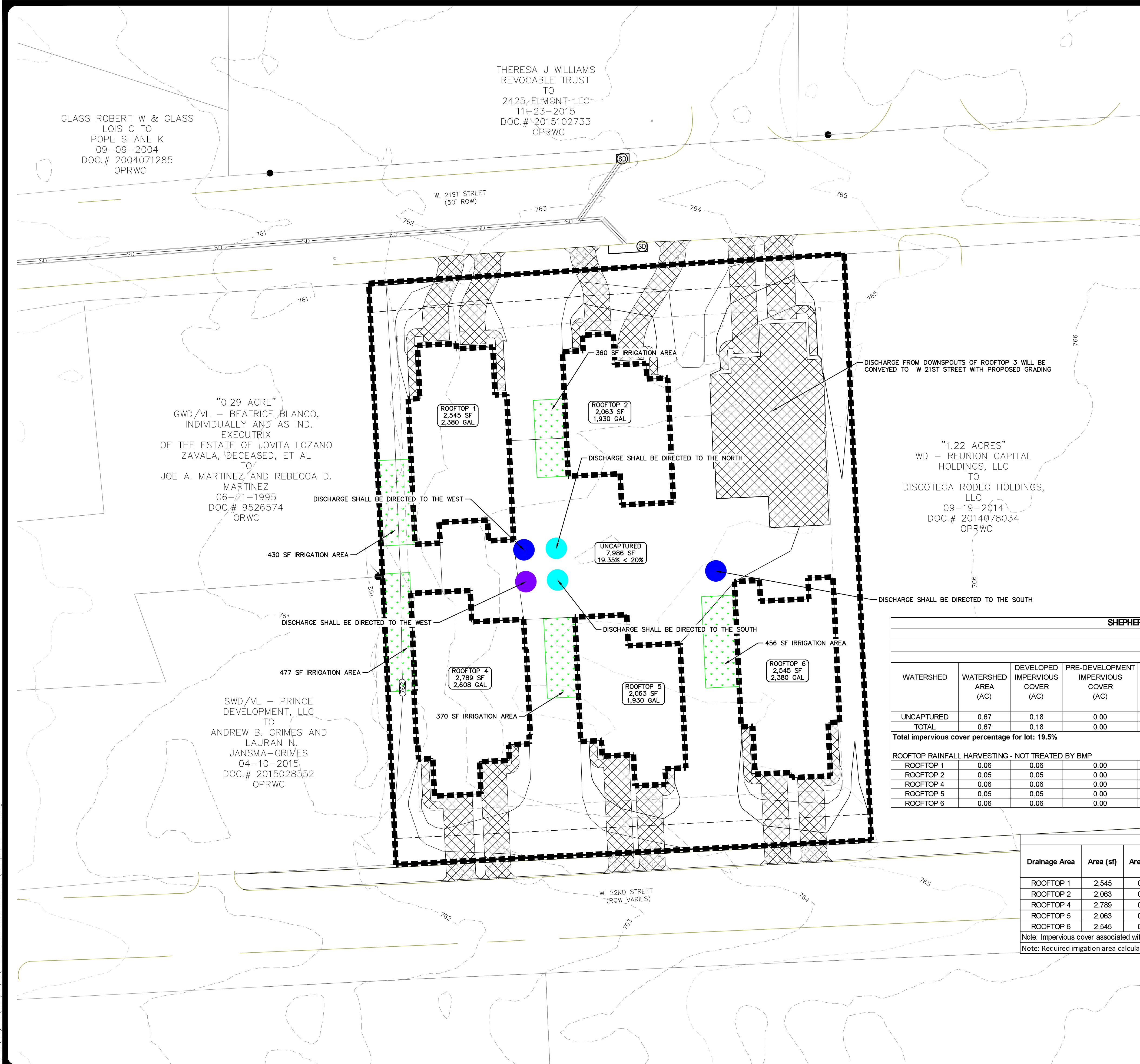
PROPOSED CONDITIONS DRAINAGE MAP

DRAINAGE AREA	AREA (acres)	I.C. %	COMPOSITE C				A-C ₂	A-C ₁₀	A-C ₂₅	A-C ₁₀₀	SHEET FLOW				SHALLOW CONCENTRATED FLOW					CHANNELIZED FLOW					Cumulative Tc (min)	INTENSITY					DISCHARGE			
			C ₁₀	C ₂₅	C ₁₀₀	Length (ft)					Manning's (n)	Slope ft/ft	Tc (min)	Length (ft)	Manning's (n)	Paved/Unpaved	Slope ft/ft	Tc (min)	Length (ft)	Manning's (n)	Slope ft/ft	Velocity ft/s	Tc (min)	12yr (in/hr)		110yr (in/hr)	125yr (in/hr)	1100yr (in/hr)	Q 2 (cfs)	Q 10 (cfs)	Q 25 (cfs)	Q 100 (cfs)		
PROPOSED CONDITIONS DRAINAGE AREAS																																		
DA-1	1.55	87.8%	0.88	0.89	0.89	0.90	1.37	1.38	1.38	1.39	49	0.3	0.019	2.5	94	0.3	Unpaved	0.011	4.4	23	0.013	0.015	5.6	0.1	7.0	6.0	8.0	9.2	11.1	8.19	11.05	12.71	15.50	
DA-2	0.23	48.2%	0.59	0.61	0.63	0.65	0.13	0.14	0.14	0.15	39	0.3	0.012	2.6	90	0.3	Unpaved	0.011	4.3	60	0.013	0.015	5.6	0.2	7.1	6.0	8.0	9.2	11.1	0.80	1.11	13.70	1.64	
DA-3	1.38	83.5%	0.85	0.86	0.86	0.87	1.17	1.18	1.19	1.20	23	0.3	0.019	1.2	117	0.3	Unpaved	0.010	6.0	61	0.013	0.015	5.6	0.2	7.3	5.9	8.0	9.1	11.0	6.94	9.41	10.84	13.26	
DA-4	0.22	58.3%	0.67	0.68	0.69	0.72	0.14	0.15	0.15	0.15	56	0.3	0.014	3.5	0	0.3	Unpaved	0.012	0.0	0	0.013	0.000	0.0	0.0	5.0	6.5	8.6	9.8	11.9	0.93	1.27	1.47	1.83	

NOTE:
1) RUNOFF FROM ROOFTOPS SHALL BE COLLECTED FOR RAINWATER HARVESTING REQUIREMENTS PER TCEQ GUIDELINES.

CITY JOB No. 2024-39-SDP
JOB NO. 51466-00
DATE MARCH 2024
DESIGNER BA/JS/AD
CHECKED AC DRAWN BA
SHEET 10 OF 54

Date: Jul 12, 2024, 1:27pm User: jstysinger
File: R:\Projects\51466\00_301_Construction Documents\DWG\51466-00.dwg



- LEGEND**
- 7.35 PROPOSED CONTOURS
 - 7.35 EXISTING CONTOURS
 - PROPERTY LINE
 - PROPOSED WATERSHED
 - OFFSITE 3A
3.92 AC
 - WATERSHED ACREAGE
 - FLOW DIRECTION
 - 3,000 GAL STORAGE TANK
 - 2,500 GAL STORAGE TANK
 - 2,000 GAL STORAGE TANK
 - UNCAPTURED IMPERVIOUS COVER
 - PROPOSED IRRIGATION AREA

SHEPHERD'S VILLAGE - WATER QUALITY TREATMENT SUMMARY							
SHEPHERD'S VILLAGE WPAP							
WATERSHED	WATERSHED AREA (AC)	DEVELOPED IMPERVIOUS COVER (AC)	PRE-DEVELOPMENT IMPERVIOUS COVER (AC)	TOTAL NET IMPERVIOUS COVER (AC)	BMP TYPE	REQUIRED REMOVAL OF TSS GENERATED ANNUALLY (LBS)	TSS REMOVED ANNUALLY (LBS)
UNCAPTURED	0.67	0.18	0.00	0.18	UNTREATED	160	0
TOTAL	0.67	0.18	0.00	0.18		160	0
Total impervious cover percentage for lot: 19.5%							
ROOFTOP RAINFALL HARVESTING - NOT TREATED BY BMP							
ROOFTOP 1	0.06	0.06	0.00	0.06	ROOFTOP RAINFALL HARVESTING SYSTEM 1	N/A	N/A
ROOFTOP 2	0.05	0.05	0.00	0.05	ROOFTOP RAINFALL HARVESTING SYSTEM 2	N/A	N/A
ROOFTOP 4	0.06	0.06	0.00	0.06	ROOFTOP RAINFALL HARVESTING SYSTEM 4	N/A	N/A
ROOFTOP 5	0.05	0.05	0.00	0.05	ROOFTOP RAINFALL HARVESTING SYSTEM 5	N/A	N/A
ROOFTOP 6	0.06	0.06	0.00	0.06	ROOFTOP RAINFALL HARVESTING SYSTEM 6	N/A	N/A

Shepherd's Village - Rooftop Rainfall Harvesting Calculations								
Drainage Area	Area (sf)	Area (ac)	Required Captured Rainfall Runoff (in)	Required Captured Volume (cf)	Required Captured Volume (gal)	Provided Storage System Volume (gal)	Required Irrigation Area (sf)	Provided Irrigation Area (sf)
ROOFTOP 1	2,545	0.06	1.5	318	2,380	2,500	424	430
ROOFTOP 2	2,063	0.05	1.5	258	1,929	2,000	344	360
ROOFTOP 4	2,789	0.06	1.5	349	2,608	3,000	465	477
ROOFTOP 5	2,063	0.05	1.5	258	1,929	2,000	344	370
ROOFTOP 6	2,545	0.06	1.5	318	2,380	2,500	424	456

Note: Impervious cover associated with roof areas connected to a rainfall harvesting systems does not need to be included in TSS calculations.
Note: Required irrigation area calculations are based on a soil conductivity of 0.3 in/hr, based on results for project area from NRCS Web Soil Survey.

NO. REVISION

DATE

7/12/24

**PAPE-DAWSON
ENGINEERS**

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1800 N. MOPC EXPY, BLDG. 3, STE. 200 | AUSTIN, TX 78759 | 512.644.6711
TXPE FIRM REGISTRATION #470 | TXEPLS FIRM REGISTRATION #10028601

SHEPHERD'S VILLAGE

502 W. 21ST GEORGETOWN,
TX 78626

WATER QUALITY TREATMENT SUMMARY

CITY JOB No. 2024-39-SDP

JOB NO. 51466-00

DATE MARCH 2024

DESIGNER BA/JS/AD

CHECKED AC DRAWN BA

SHEET 11 OF 54

GUIDELINES FOR DESIGN AND INSTALLATION OF
TEMPORARY EROSION AND SEDIMENTATION CONTROLS

TYPE OF STRUCTURE	REACH LENGTH	MAXIMUM DRAINAGE AREA	SLOPE
SILT FENCE	N/A	2 ACRES	0 - 10%
	200 FEET	2 ACRES	10 - 20%
	100 FEET	1 ACRE	20 - 30%
	50 FEET	1/2 ACRE	> 30%
TRIANGLE FILTER DIKE	100 FEET	1/2 ACRE	< 30% SLOPE
	50 FEET	1/4 ACRE	> 30% SLOPE
ROCK BERM *, **	500 FEET	< 5 ACRES	0 - 10%

* FOR ROCK BERM DESIGN WHERE PARAMETERS ARE OTHER THAN STATED, DRAINAGE AREA CALCULATIONS AND ROCK BERM DESIGN MUST BE SUBMITTED FOR REVIEW.

** HIGH SERVICE ROCK BERMS MAY BE REQUIRED IN AREAS OF ENVIRONMENTAL SIGNIFICANCE AS DETERMINED BY THE CITY OF GEORGETOWN.

NOTE: THIS SECTION IS INTENDED TO ASSIST THOSE PERSONS PREPARING WATER POLLUTION ABATEMENT PLANS (WPAP) OR STORM WATER POLLUTION PREVENTION PLANS (SWPP) THAT COMPLY WITH FEDERAL, STATE AND/OR LOCAL STORM WATER REGULATIONS.

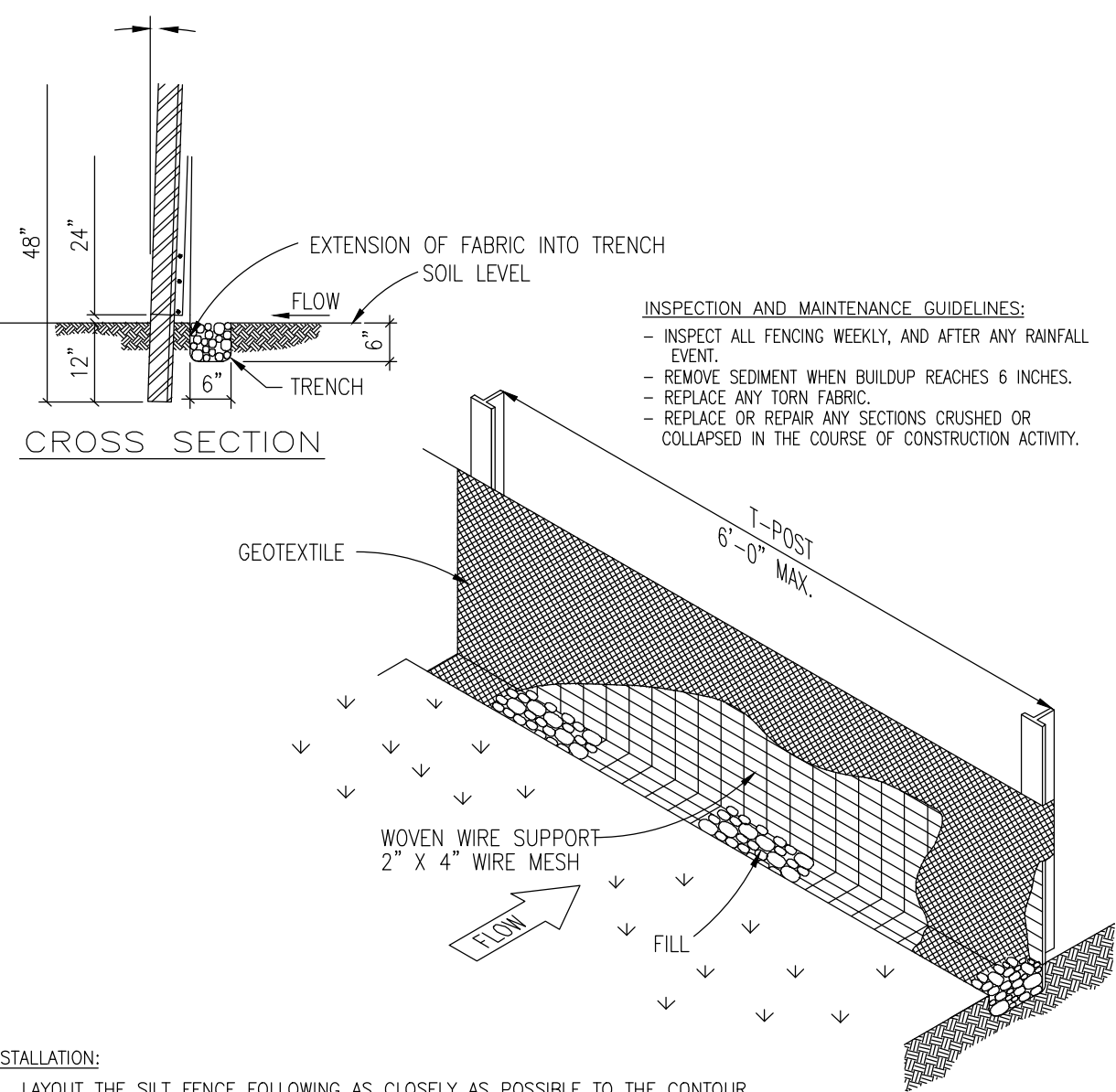
1. THE CONTRACTOR TO INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, GRADING, OR EXCAVATION). CONTRACTOR TO REMOVE EROSION/SEDIMENTATION CONTROLS AT THE COMPLETION OF PROJECT AND GRASS RESTORATION.
2. ALL PROJECTS WITHIN THE RECHARGE ZONE OF THE EDWARD'S AQUIFER SHALL SUBMIT A BEST MANAGEMENT PRACTICES AND WATER POLLUTION AND ABATEMENT PLAN TO THE TNRCC FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
3. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS TO BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN AND WATER POLLUTION ABATEMENT PLAN. DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY THE OWNER'S REPRESENTATIVE.

The Architect/Engineer assumes responsibility for appropriate use of this standard.



CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
TEMPORARY EROSION AND
SEDIMENTATION CONTROL GUIDELINES

REVISION DATE	ADOPTED 6/21/2006
DESIGN NAME	EC01
DATE	1/2003
NTS	DATE
DATE	DATE
DATE	DATE



INSPECTION AND MAINTENANCE GUIDELINES:
- INSPECT ALL FENCING WEEKLY, AND AFTER ANY RAINFALL EVENT.
- REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.
- REPLACE ANY TORN FABRIC.
- REPLACE OR REPAIR ANY SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY.

INSTALLATION:

- LAYOUT THE SILT FENCE FOLLOWING AS CLOSELY AS POSSIBLE TO THE CONTOUR.
- CLEAR THE GROUND OF DEBRIS, ROCKS, PLANTS (INCLUDING GRASSES TALLER THAN 2") TO PROVIDE A SMOOTH FLOW APPROACH SURFACE. EXCAVATE 6" DEEP X 6" WIDE TRENCH ON UPSTREAM SIDE OF FACE FOR PLANS.
- DRIVE THE HEAVY DUTY T-POST AT LEAST 12 INCHES INTO THE GROUND AND AT A SLIGHT ANGLE TOWARDS THE FLOW.
- ATTACH THE 2" X 4" 12 GAUGE WELDED WIRE MESH TO THE T-POST WITH 11 1/2 GAUGE GALVANIZED T-POST CLIPS. THE TOP OF THE WIRE TO BE 24" ABOVE GROUND LEVEL. THE WELDED WIRE MESH TO BE OVERLAPPED 6" AND TIED AT LEAST 6 TIMES WITH HOG RINGS.
- THE SILT FENCE TO BE INSTALLED WITH A SKIRT A MINIMUM OF 6" WIDE PLACED ON THE UPHILL SIDE OF THE FENCE INSIDE EXCAVATED TRENCH. THE FABRIC TO OVERLAP THE TOP OF THE WIRE BY 1'.
- ANCHOR THE SILT FENCE BY BACKFILLING WITH EXCAVATED DIRT AND ROCKS (NOT LARGER THAN 2").
- GEOTEXTILE SPLICES SHOULD BE A MINIMUM OF 18" WIDE ATTACHED IN AT LEAST 6 PLACES. SPLICES IN CONCENTRATED FLOW AREAS WILL NOT BE ACCEPTED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.



CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
SILT FENCE DETAIL

REVISION DATE	ADOPTED 6/21/2006
DESIGN NAME	EC02
DATE	1/2003
NTS	DATE
DATE	DATE
DATE	DATE

NOTE: THIS SECTION IS INTENDED TO ASSIST THOSE PERSONS PREPARING WATER POLLUTION ABATEMENT PLANS (WPAP) OR STORM WATER POLLUTION PREVENTION PLANS (SWPP) THAT COMPLY WITH FEDERAL, STATE AND/OR LOCAL STORM WATER REGULATIONS.

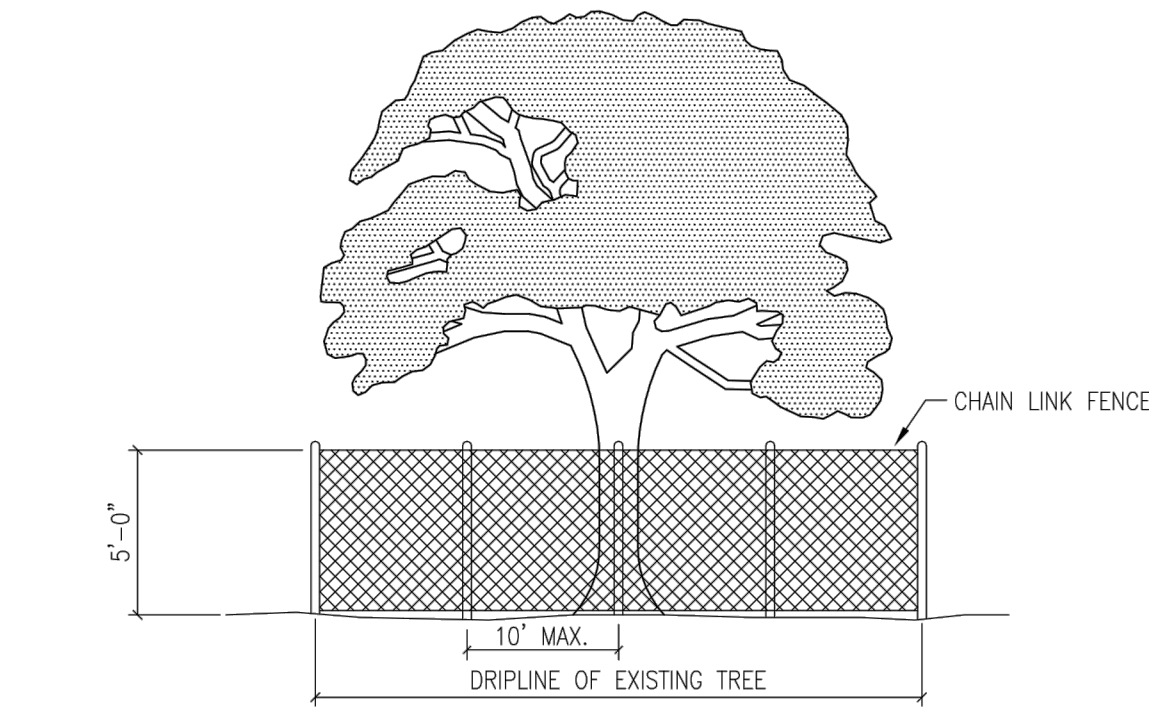
1. THE CONTRACTOR TO INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, GRADING, OR EXCAVATION). CONTRACTOR TO REMOVE EROSION/SEDIMENTATION CONTROLS AT THE COMPLETION OF PROJECT AND GRASS RESTORATION.
2. ALL PROJECTS WITHIN THE RECHARGE ZONE OF THE EDWARD'S AQUIFER SHALL SUBMIT A BEST MANAGEMENT PRACTICES AND WATER POLLUTION AND ABATEMENT PLAN TO THE TNRCC FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
3. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS TO BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN AND WATER POLLUTION ABATEMENT PLAN. DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY THE OWNER'S REPRESENTATIVE.
4. ALL PLANTING SHALL BE DONE BETWEEN MAY 1 AND SEPTEMBER 15 EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING. IF PLANTING IS AUTHORIZED TO BE DONE OUTSIDE THE DATES SPECIFIED, THE SEED SHALL BE PLANTED WITH THE ADDITION OF WINTER FESCUE (KENTUCKY 31) AT A RATE OF 100#/ACRE. GRASS SHALL BE COMMON BERMOUDA GRASS, HULLED, MINIMUM 80% PURE LIVE SEED. ALL GRASS SEED SHALL BE FREE FROM NOXIOUS WEED, GRADE "A" RECENT CROP, RECLEANED AND TREATED WITH APPROPRIATE FUNGICIDE AT TIME OF MIXING. SEED SHALL BE FURNISHED IN SEALED, STANDARD CONTAINERS WITH DEALER'S GUARANTEED ANALYSIS.
5. ALL DISTURBED AREAS TO BE RESTORED AS NOTED IN THE WATER POLLUTION ABATEMENT PLAN.
6. THE PLANTED AREA TO BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF FOUR (4) INCHES. THE IRRIGATION TO OCCUR AT 10-DAY INTERVALS DURING THE FIRST TWO MONTHS TO INSURE GERMINATION AND ESTABLISHMENT OF THE GRASS. RAINFALL OCCURRENCES OF 1/2 INCH OR GREATER TO POSTPONE THE WATERING SCHEDULE ONE WEEK.
7. RESTORATION TO BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 25 SQUARE FEET EXIST.
8. A MINIMUM OF FOUR (4) INCHES OF TOPSOIL TO BE PLACED IN ALL AREAS DISTURBED BY CONSTRUCTION.
9. THE CONTRACTOR TO HYDROMULCH OR SOO (AS SHOWN ON PLANS) ALL EXPOSED CUTS AND FILLS UPON COMPLETION OF CONSTRUCTION.
10. EROSION AND SEDIMENTATION CONTROLS TO BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILDUP WITHIN TREE DRIPLINE.
11. TO AVOID SOIL COMPACTION, CONTRACTOR SHALL NOT ALLOW VEHICULAR TRAFFIC, PARKING, OR STORAGE OF EQUIPMENT OR MATERIALS IN THE TREE DRIPLINE AREAS.
12. WHERE A FENCE IS CLOSER THAN FOUR (4) FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF EIGHT (8) FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE FENCING. TREES TO BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
13. ANY ROOT EXPOSED BY CONSTRUCTION ACTIVITY TO BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOPSOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN TWO DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
15. CONTRACTOR TO PRUNE VEGETATION TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT BEFORE DAMAGE OCCURS (BROKING OF BRANCHES, ETC.). ALL FINISHED PRUNING TO BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE "NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHOE TREES").
16. THE CONTRACTOR IS TO INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY RAINFALL EXCEEDING 1/4 INCH TO VERIFY THAT THEY HAVE NOT BEEN SIGNIFICANTLY DISTURBED. ANY ACCUMULATED SEDIMENT AFTER A SIGNIFICANT RAINFALL TO BE REMOVED AND PLACED IN THE OWNER DESIGNATED SOIL DISPOSAL SITE. THE CONTRACTOR TO CONDUCT PERIODIC INSPECTIONS OF ALL EROSION/SEDIMENTATION CONTROLS AND TO MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE.
17. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT IMMEDIATELY ADJACENT TO A PROTECTED TREE, ERECT THE FENCE APPROXIMATELY TWO TO FOUR FEET (2'-4') BEHIND THE AREA IN QUESTION.
18. NO ABOVE AND/OR BELOW GROUND TEMPORARY FUEL STORAGE FACILITIES TO BE STORED ON THE PROJECT SITE.
19. IF EROSION AND SEDIMENTATION CONTROL SYSTEMS ARE EXISTING FROM PRIOR CONTRACTS, OWNER'S REPRESENTATIVE AND THE CONTRACTOR TO EXAMINE THE EXISTING EROSION AND SEDIMENTATION CONTROL SYSTEMS FOR DAMAGE PRIOR TO CONSTRUCTION. ANY DAMAGE TO PREEXISTING EROSION AND SEDIMENTATION CONTROLS NOTED TO BE REPAIRED AT OWNERS EXPENSE.
20. INTENTIONAL RELEASE OF VEHICLE OR EQUIPMENT FLUIDS ONTO THE GROUND IS NOT ALLOWED. CONTAMINATED SOIL RESULTING FROM ACCIDENTAL SPILL TO BE REMOVED AND DISPOSED OF PROPERLY.

The Architect/Engineer assumes responsibility for appropriate use of this standard.



CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
EROSION AND SEDIMENTATION AND
TREE PROTECTION NOTES

REVISION DATE	ADOPTED 6/21/2006
DESIGN NAME	EC01A
DATE	1/2003
NTS	DATE
DATE	DATE
DATE	DATE



NOTES:

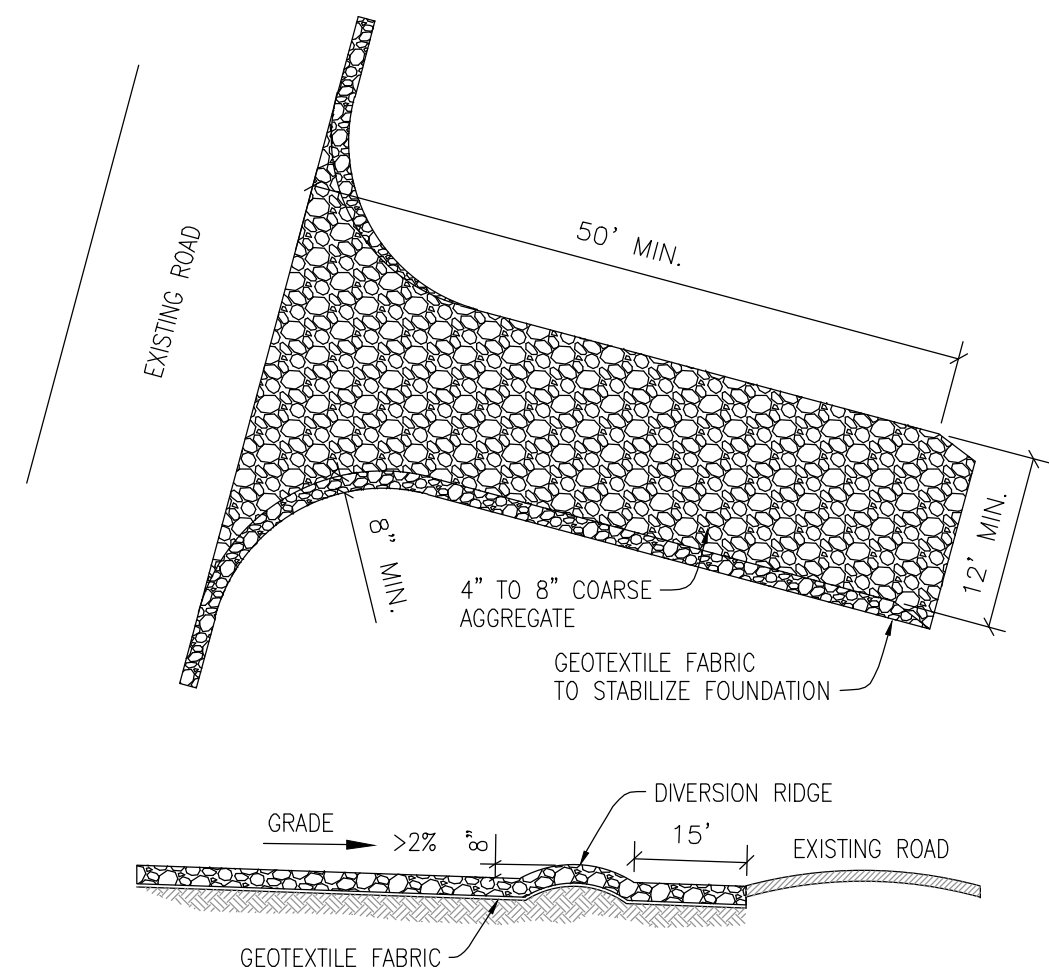
1. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING).
2. FENCES SHALL COMPLETELY SURROUND THE TREE, OR CLUSTERS OF TREES, WILL BE LOCATED AT THE OUTERMOST LIMIT OF THE TREE BRANCHES (DRIPLINE), AND WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
 - A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MATERIALS.
 - B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN SIX INCHES (6") CUT OR FILL, OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY.
 - C. WOUNDS TO EXPOSED ROOTS, TRUNKS OR LIMBS BY MECHANICAL EQUIPMENT.
 - D. OTHER ACTIVITIES DETRIMENTAL TO TREES, SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING AND FIRE.
3. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIPLINES MAY BE PERMITTED IN THE FOLLOWING CASES:
 - A. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
 - B. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN SIX FEET (6'-0") TO BUILDING.

The Architect/Engineer assumes responsibility for appropriate use of this standard.



CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
TREE PROTECTION -
CHAIN LINK FENCE

REVISION DATE	ADOPTED 6/21/2006
DESIGN NAME	EC09
DATE	1/2003
NTS	DATE
DATE	DATE
DATE	DATE



INSTALLATION:

- CLEAR THE AREA OF DEBRIS, ROCKS OR PLANTS THAT WILL INTERFERE WITH INSTALLATION.
- GRADE THE AREA FOR THE ENTRANCE TO FLOW BACK ON TO THE CONSTRUCTION SITE. RUNOFF FROM THE STABILIZED CONSTRUCTION
- PLACE GEOTEXTILE FABRIC AS APPROVED BY THE CITY.
- PLACE ROCK AS APPROVED BY THE CITY.

INSPECTIONS AND MAINTENANCE GUIDELINES:

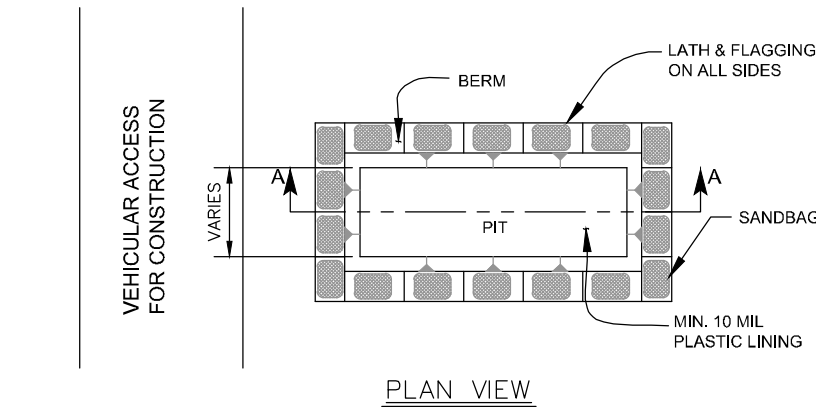
- THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
- WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

The Architect/Engineer assumes responsibility for appropriate use of this standard.



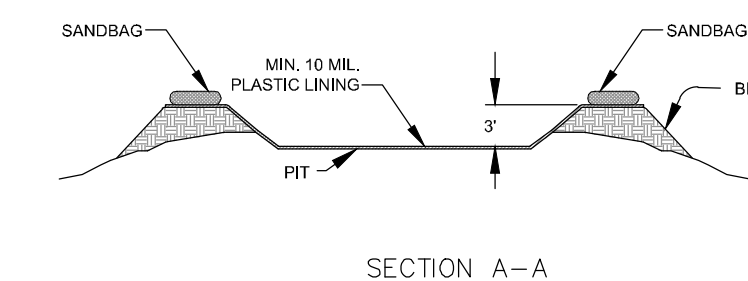
CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
STABILIZED CONSTRUCTION ENTRANCE

REVISION DATE	ADOPTED 6/21/2006
DESIGN NAME	EC06
DATE	1/2003
NTS	DATE
DATE	DATE
DATE	DATE



GENERAL NOTES:

- 1) Detail above illustrates minimum dimensions. Pit can be increased in size depending on expected frequency of use.
- 2) Washout pit shall be located in an area easily accessible to construction traffic.
- 3) Washout pit shall not be located in areas subject to inundation from storm water runoff.
- 4) Locate washout area at least 50 feet from sensitive features, storm drains, open ditches, or water bodies.
- 5) Temporary concrete washout facility should be constructed with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations.



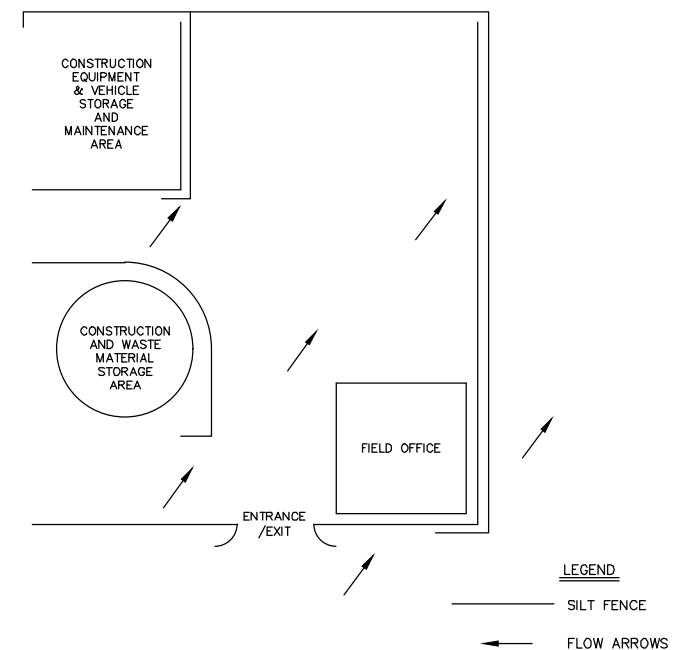
MATERIALS:

- 1) Plastic lining material should be a minimum of 10 mil in polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.

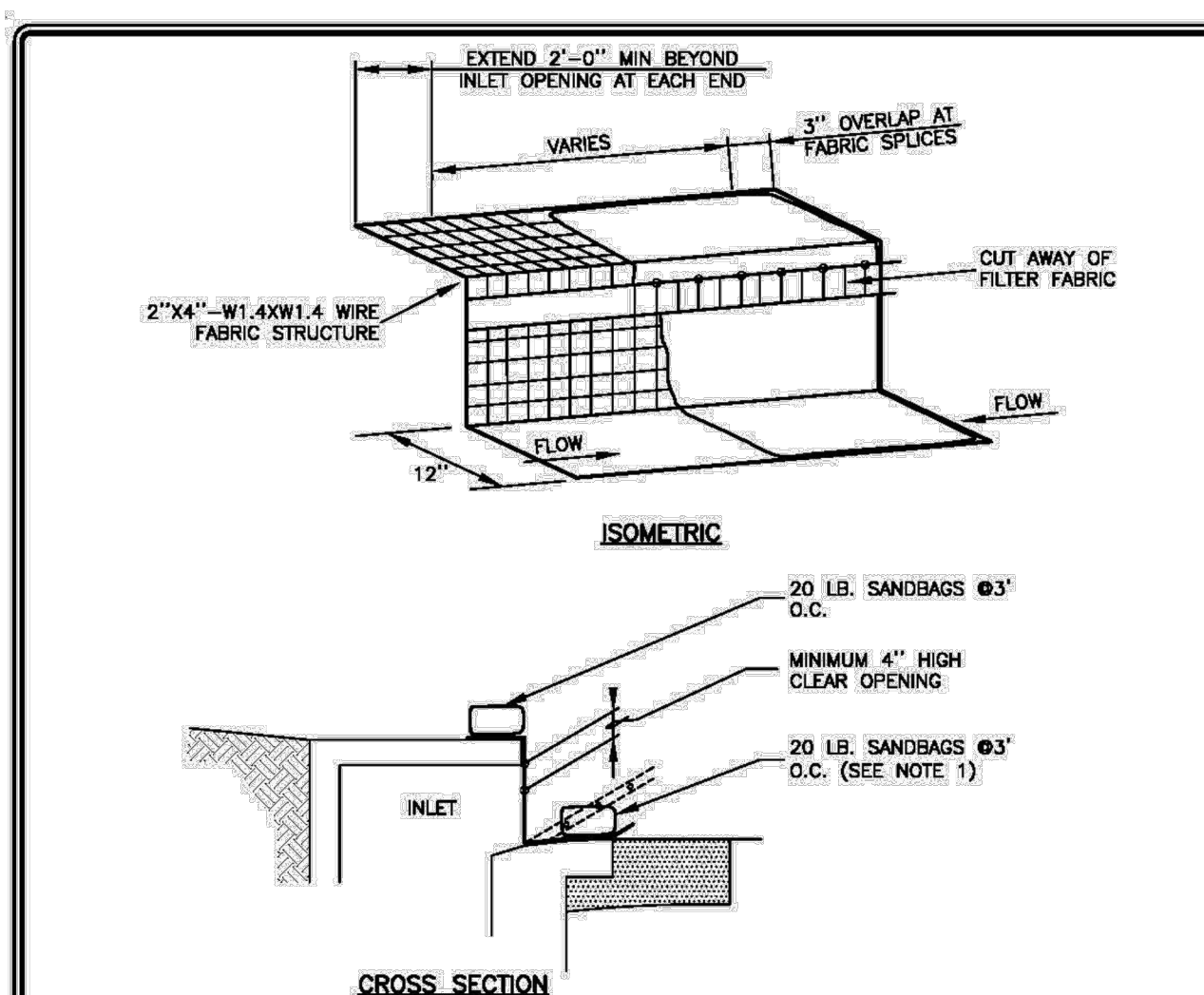
INSPECTION AND MAINTENANCE GUIDELINES:

- 1) When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of.
- 2) Materials used to construct temporary concrete washout facilities should be removed from the site of the work and disposed of.
- 3) Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

CONCRETE TRUCK WASHOUT PIT



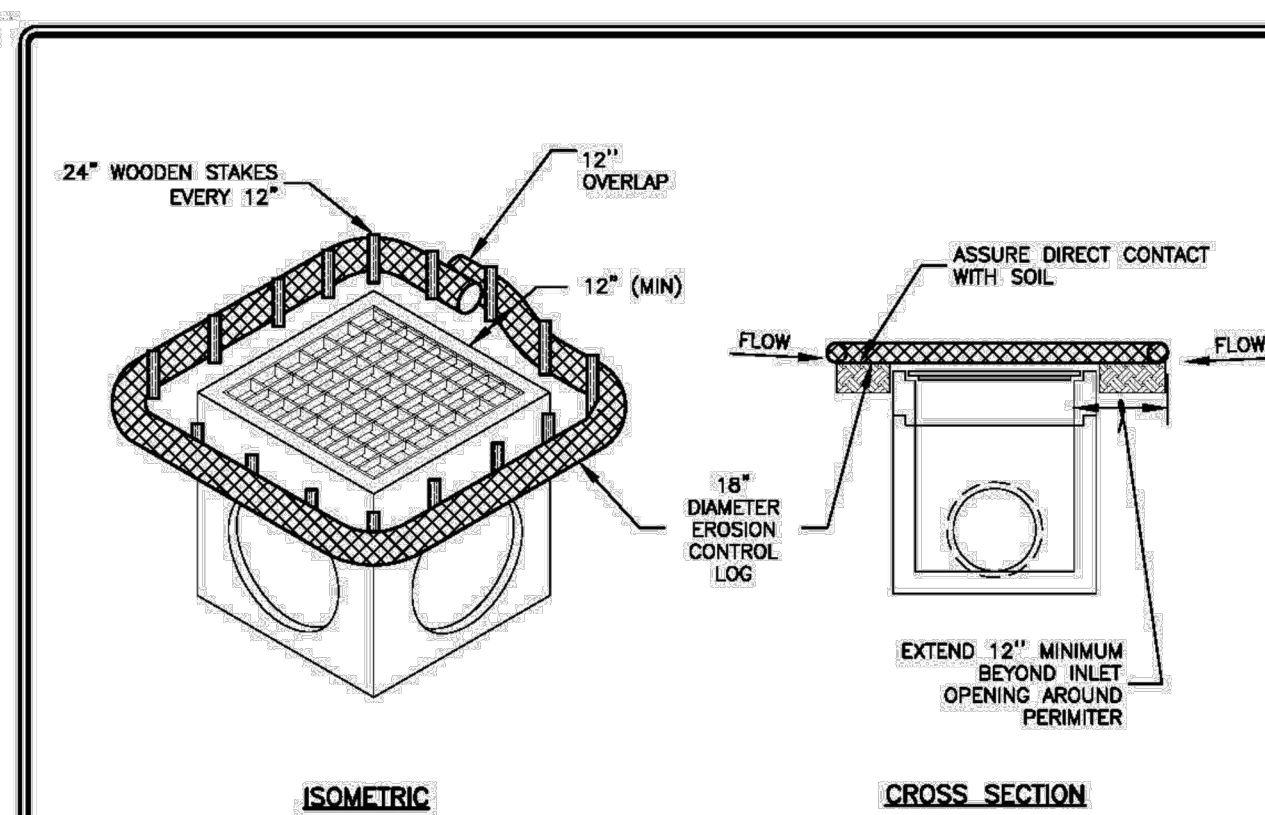
TYP. CONSTRUCTION STAGING AREA



NOTES:

1. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1" X 4" BOARD SECURED WITH CONCRETE NAILS 3" O.C. NAILED INTO THE GUTTER IN LIEU OF SANDBAGS TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, CLEAN ANY DIRT/DEBRIS FROM NAILING LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH SURFACE OF GUTTER.
2. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM-WATER BEGINS TO OVERTOP THE CURB.
5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-14
APPROVED 03-25-11	CURB INLET PROTECTION DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		



NOTES:

1. EROSION CONTROL LOG CONTAINMENT MESH SHALL BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE AND FILL MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELSSOR FIBERS, CHIPPED SITE VEGETATION, COCONUT FIBERS, 100% RECYCLABLE FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY.
2. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 6".
3. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY CLEAN THE INLET PROTECTION IF EXCESSIVE PONDING OCCURS.
4. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-16
APPROVED 03-25-11	AREA INLET PROTECTION WITH EROSION CONTROL LOG DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

SHEPHERD'S VILLAGE

502 W. 21ST GEORGETOWN,
TX 78626

EROSION AND SEDIMENTATION CONTROL DETAILS

CITY JOB No. 2024-39-SDP

JOB NO. 51466-00

DATE MARCH 2024

DESIGNER BA/JS/AD

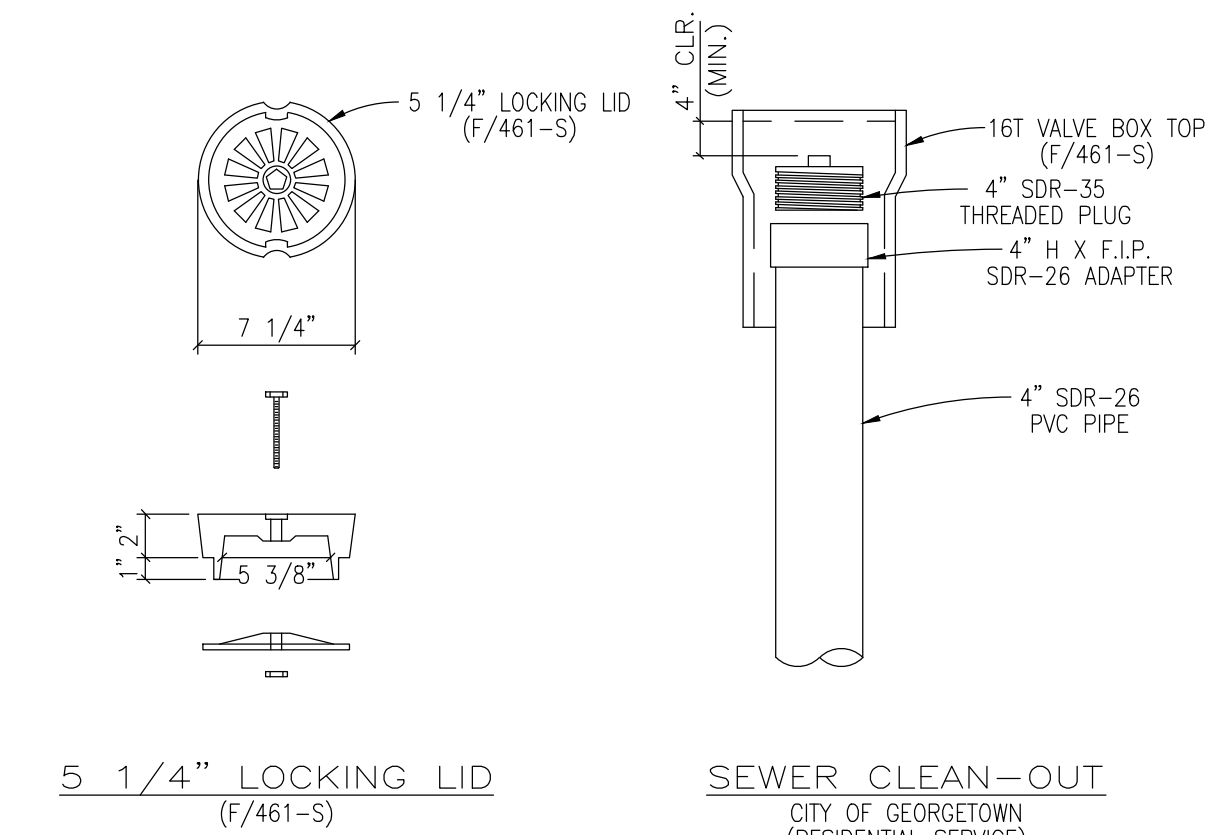
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PAPE-DAWSON
ENGINEERS

AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
18061 N. MO-PAC EXPY., SUITE 300 | AUSTIN, TX 78758 | 512-654-8671
TIDPE FIRM REGISTRATION #4200 | TIDPE FIRM REGISTRATION #15008801

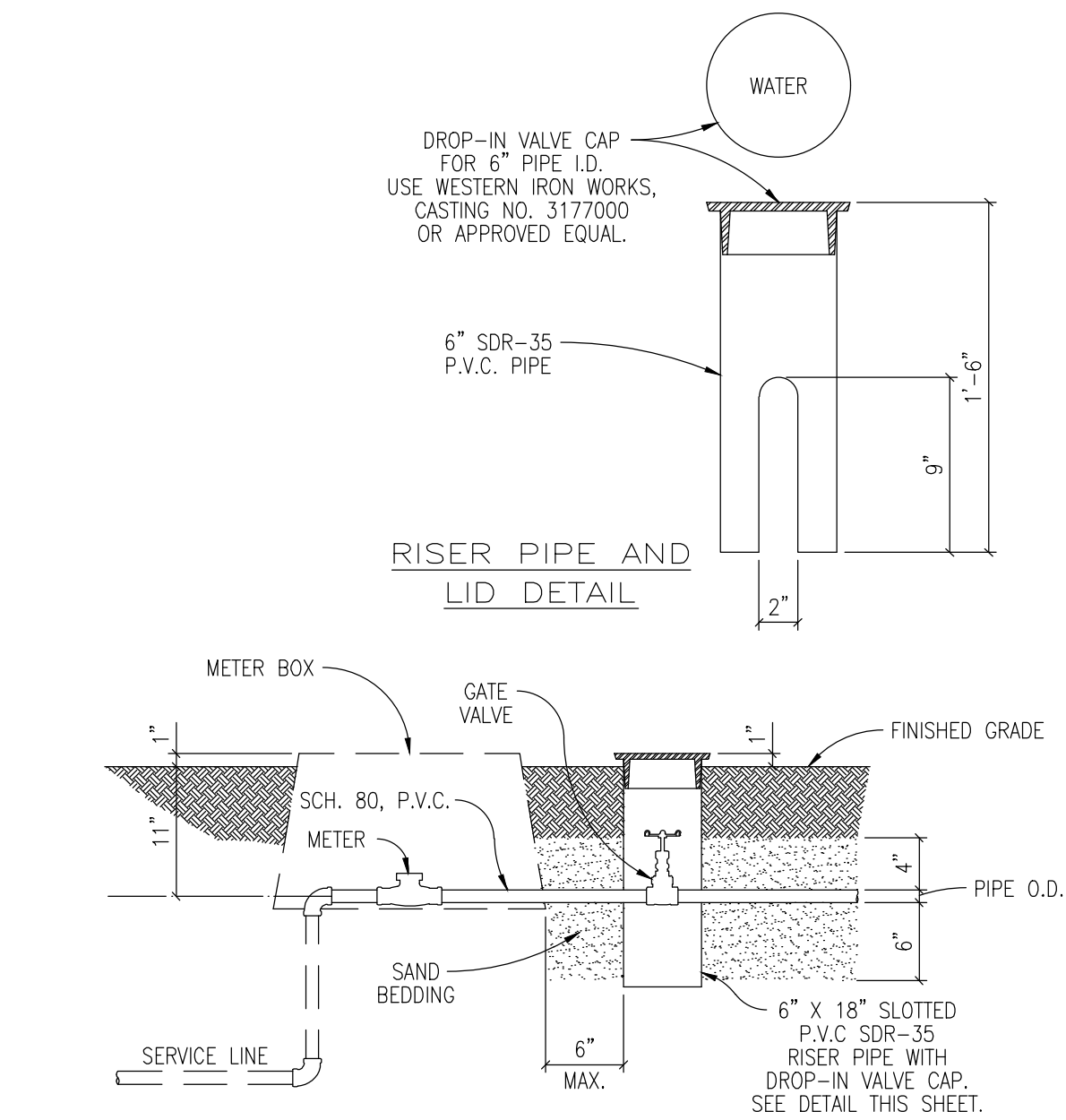


5 1/4" LOCKING LID
(F/461-S)

SEWER CLEAN-OUT
CITY OF GEORGETOWN
(RESIDENTIAL SERVICE)

The Architect/Engineer assumes
responsibility for appropriate
use of this standard.

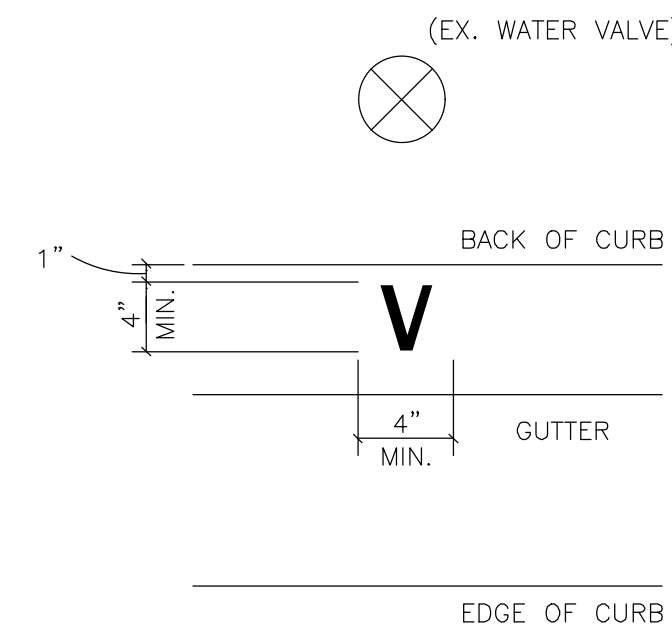
	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS SEWER CLEAN-OUT DETAIL	REVISION DATE	ADOPTED 6/21/2006
		REVISION DATE	WW12
DATE	1/2003	DATE	1/2003
DESIGNED BY	NTS	APPROVED BY	TRB
CHECKED BY	MRS	APPROVED BY	TRB



- NOTES:
- GATE VALVE SHALL BE A HAMMOND 1B645, CLASS 125, BRONZE GATE, SCREWED BONNET, NON-RISING STEM, SOLID WEDGE DISC WITH THREADED ENDS OR APPROVED EQUAL.
 - DROP-IN VALVE CAP SHALL BE CAST WITH THE WORD "WATER" ON TOP.
 - USE SCHEDULE 80, M.I.P. ADAPTER AS REQUIRED.

The Architect/Engineer assumes
responsibility for appropriate
use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS CUSTOMER'S CUT-OFF	REVISION DATE	ADOPTED 6/21/2006
		REVISION DATE	W20
DATE	1/2003	DATE	1/2003
DESIGNED BY	NTS	APPROVED BY	TRB
CHECKED BY	MRS	APPROVED BY	TRB

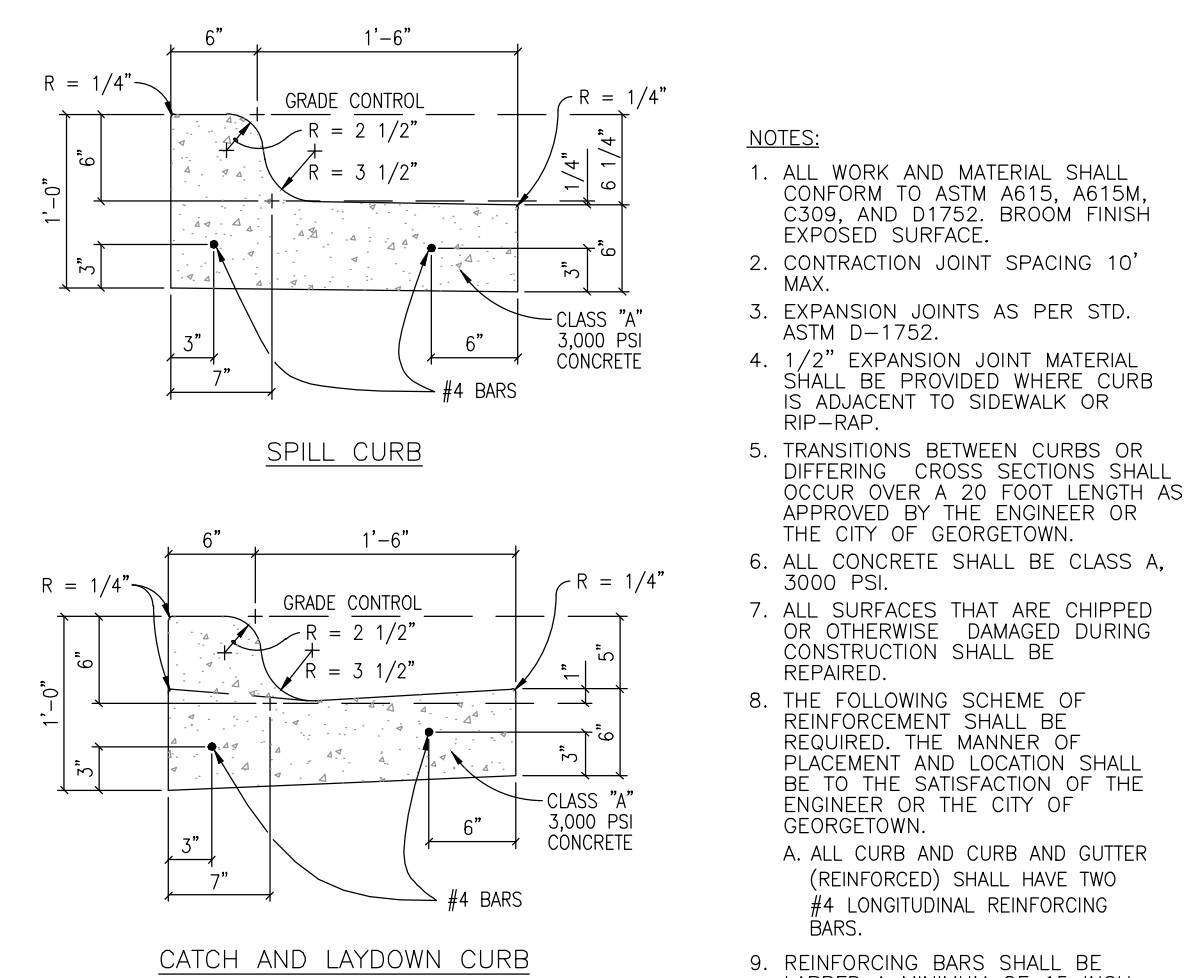


PLAN VIEW
(TYPICAL)

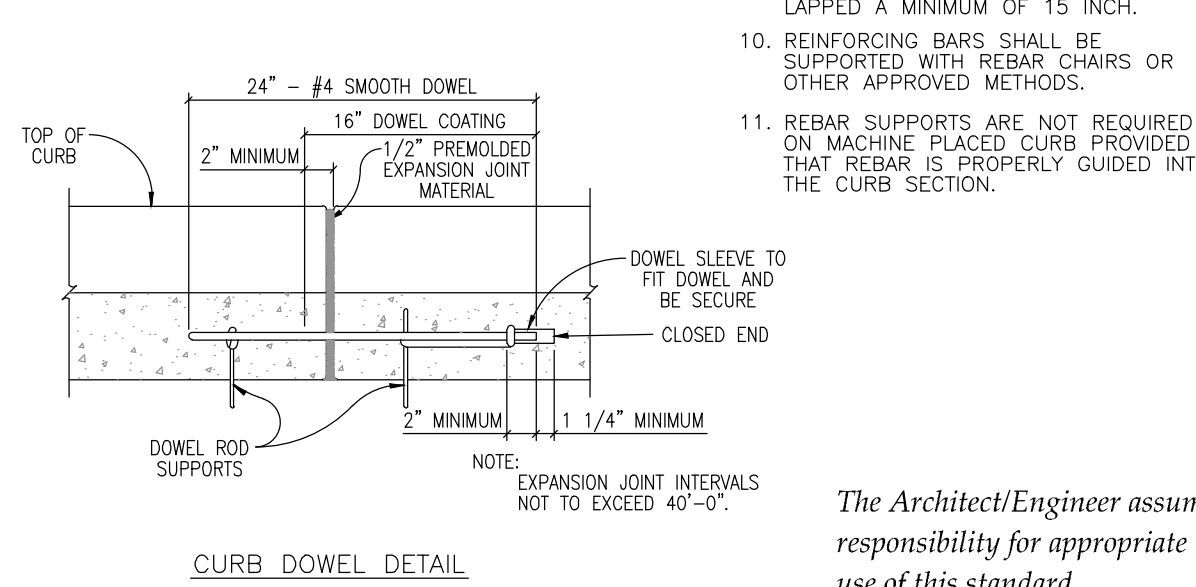
- NOTES:
- ALL WATER SERVICE, WASTE WATER SERVICE AND VALVE LOCATIONS SHALL BE APPROXIMATELY MARKED AS FOLLOWS:
WATER SERVICE "W" TOP OF CURB
WASTE WATER SERVICE "S" TOP OF CURB
VALVE "V" TOP OF CURB
 - LETTERS SHALL HAVE A 1/2" MAX. WIDTH.

The Architect/Engineer assumes
responsibility for appropriate
use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS CURB STAMP DETAIL	REVISION DATE	ADOPTED 6/21/2006
		REVISION DATE	SD05
DATE	1/2003	DATE	1/2003
DESIGNED BY	NTS	APPROVED BY	TRB
CHECKED BY	MRS	APPROVED BY	TRB



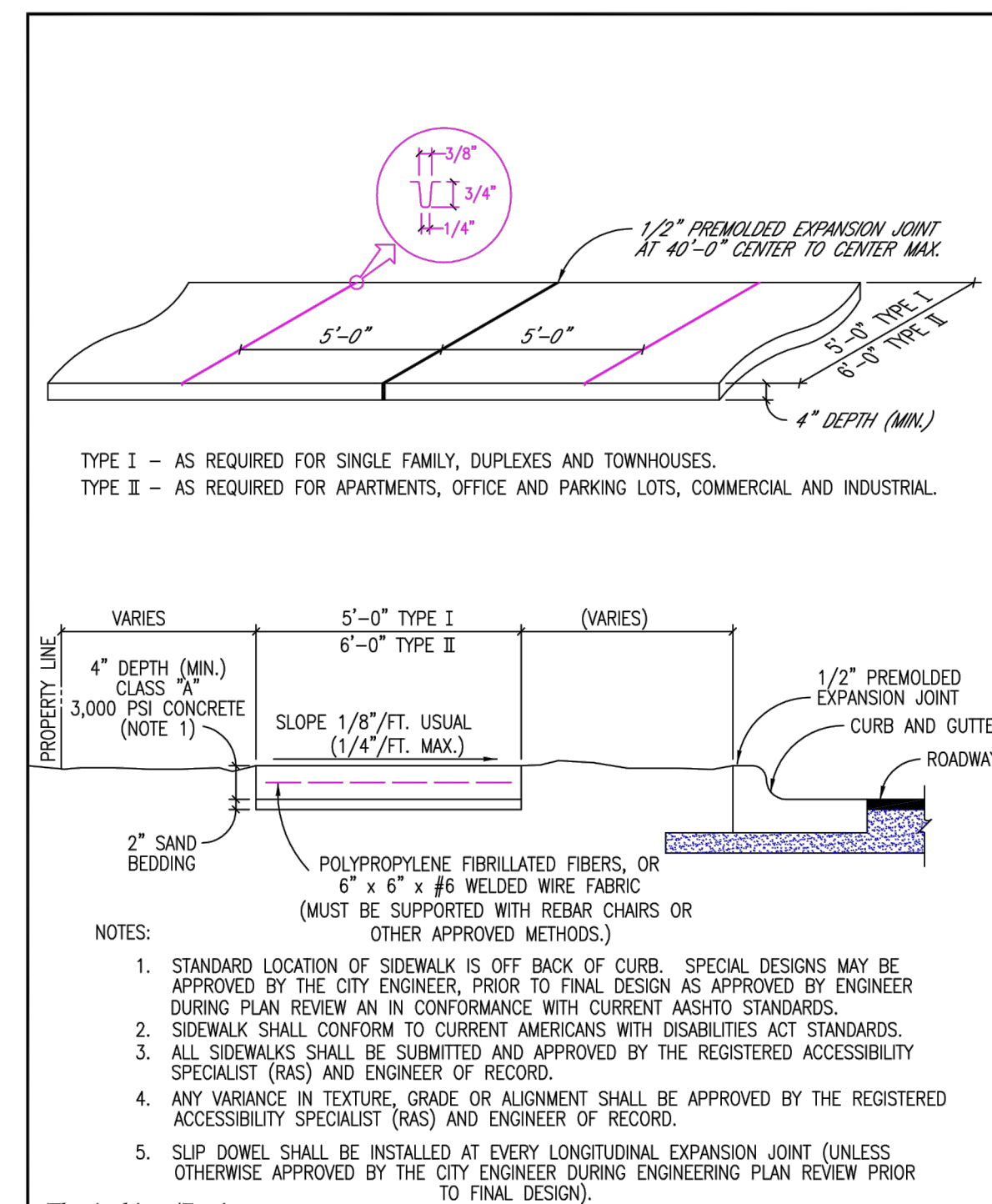
SPILL CURB



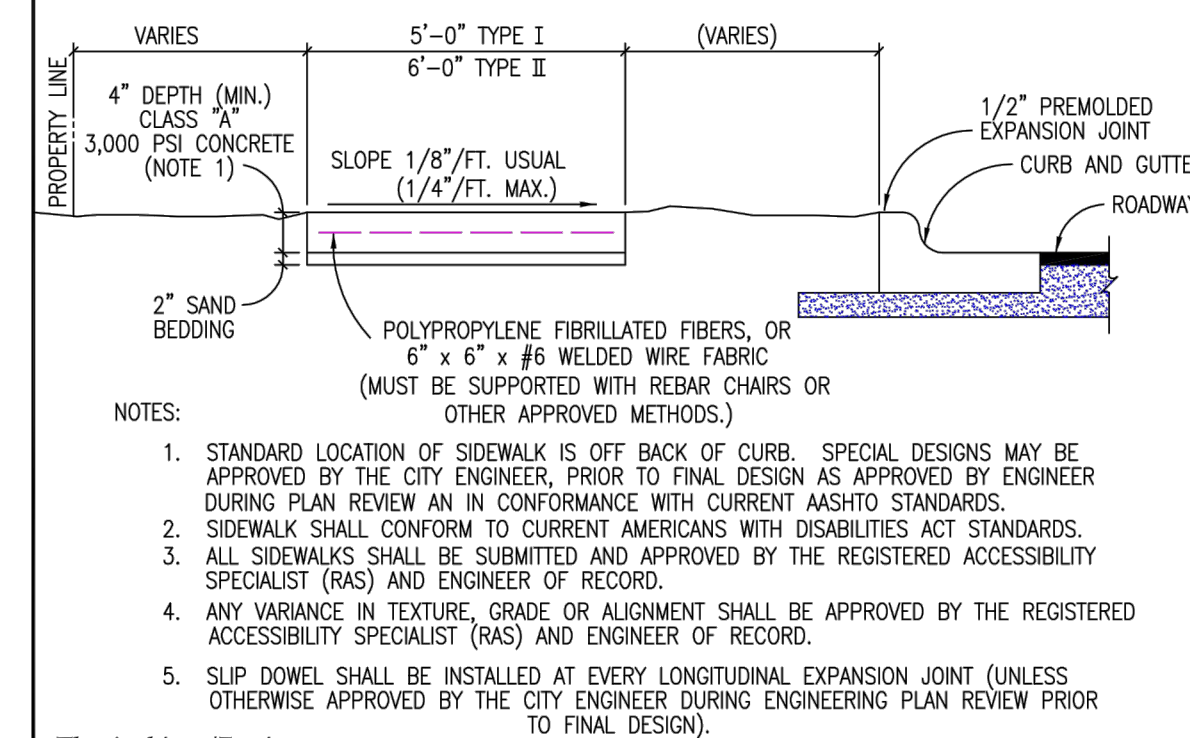
CATCH AND LAYDOWN CURB

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS CURB AND GUTTER DETAILS	REVISION DATE	ADOPTED 6/21/2006
		REVISION DATE	SD06
DATE	1/2003	DATE	1/2003
DESIGNED BY	NTS	APPROVED BY	TRB
CHECKED BY	MRS	APPROVED BY	TRB

The Architect/Engineer assumes
responsibility for appropriate
use of this standard.



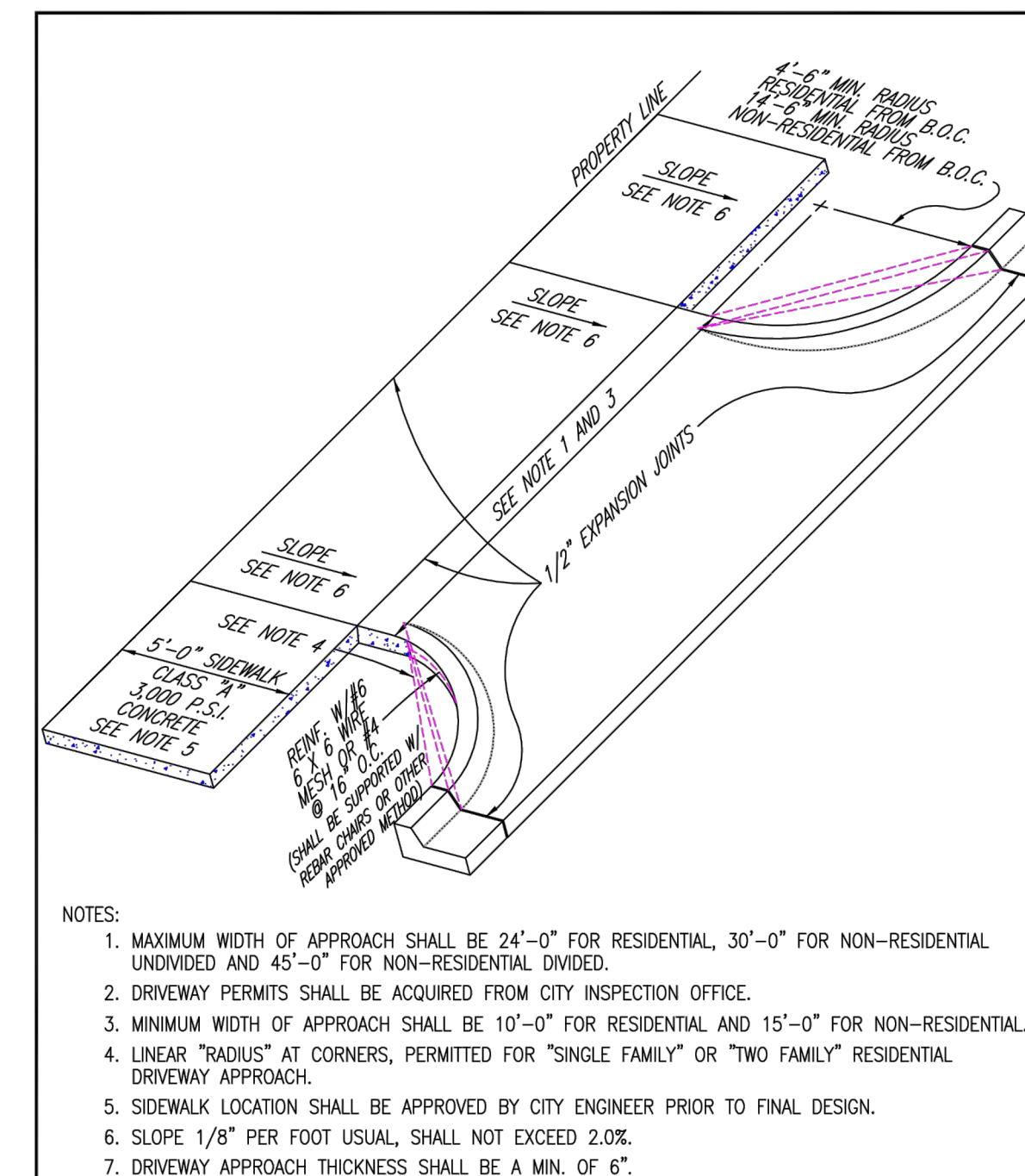
- TYPE I - AS REQUIRED FOR SINGLE FAMILY, DUPLEXES AND TOWNHOUSES.
TYPE II - AS REQUIRED FOR APARTMENTS, OFFICE AND PARKING LOTS, COMMERCIAL AND INDUSTRIAL.



- NOTES:
- STANDARD LOCATION OF SIDEWALK IS OFF BACK OF CURB. SPECIAL DESIGNS MAY BE APPROVED BY THE CITY ENGINEER, PRIOR TO FINAL DESIGN AS APPROVED BY ENGINEER DURING PLAN REVIEW AN IN CONFORMANCE WITH CURRENT AASHTO STANDARDS.
 - SIDEWALK SHALL CONFORM TO CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS.
 - ALL SIDEWALKS SHALL BE SUBMITTED AND APPROVED BY THE REGISTERED ACCESSIBILITY SPECIALIST (RAS) AND ENGINEER OF RECORD.
 - ANY VARIANCE IN TEXTURE, GRADE OR ALIGNMENT SHALL BE APPROVED BY THE REGISTERED ACCESSIBILITY SPECIALIST (RAS) AND ENGINEER OF RECORD.
 - SLIP DOWEL SHALL BE INSTALLED AT EVERY LONGITUDINAL EXPANSION JOINT (UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER DURING ENGINEERING PLAN REVIEW PRIOR TO FINAL DESIGN).

The Architect/Engineer assumes
responsibility for appropriate
use of this standard.

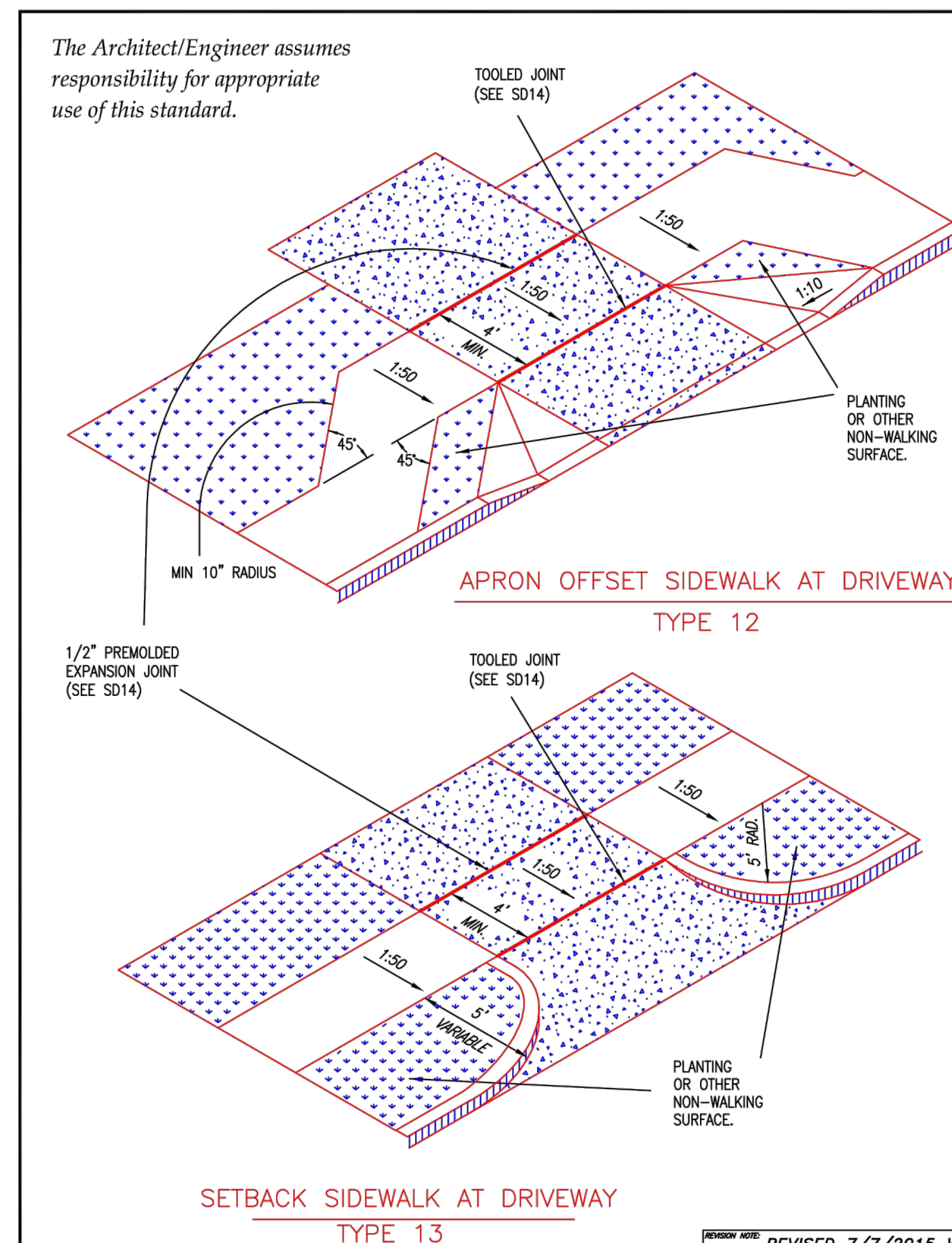
	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS SIDEWALK SECTION AND JOINT DETAIL	REVISION DATE	REVISED 6/25/2015 WBO
		REVISION DATE	ADOPTED 6/21/2006 TRB
DATE	1/2003	DATE	1/2003
DESIGNED BY	NTS	APPROVED BY	TRB
CHECKED BY	MRS	APPROVED BY	TRB



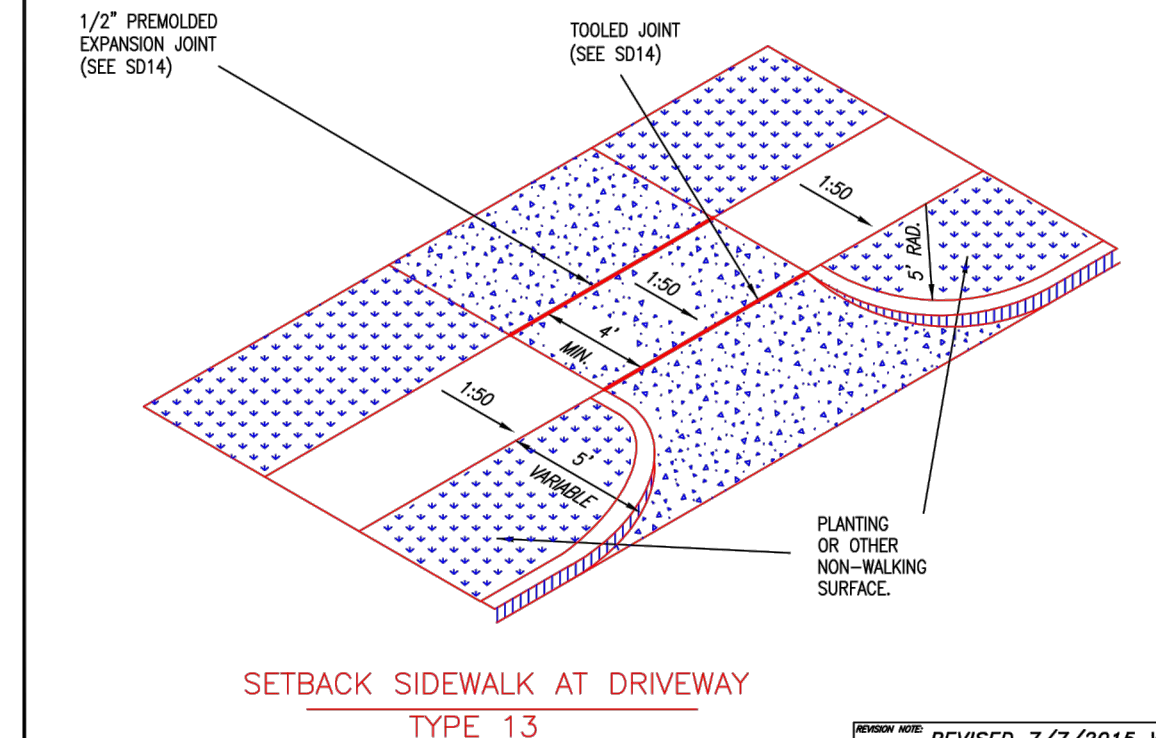
- NOTES:
- MAXIMUM WIDTH OF APPROACH SHALL BE 24'-0" FOR RESIDENTIAL, 30'-0" FOR NON-RESIDENTIAL UNDIVIDED AND 45'-0" FOR NON-RESIDENTIAL DIVIDED.
 - DRIVEWAY PERMITS SHALL BE ACQUIRED FROM CITY INSPECTION OFFICE.
 - MINIMUM WIDTH OF APPROACH SHALL BE 10'-0" FOR RESIDENTIAL AND 15'-0" FOR NON-RESIDENTIAL.
 - LINEAR "RADIUS" AT CORNERS, PERMITTED FOR "SINGLE FAMILY" OR "TWO FAMILY" RESIDENTIAL DRIVEWAY APPROACH.
 - SIDEWALK LOCATION SHALL BE APPROVED BY CITY ENGINEER PRIOR TO FINAL DESIGN.
 - SLOPE 1/8" PER FOOT USUAL, SHALL NOT EXCEED 2.0%.
 - DRIVEWAY APPROACH THICKNESS SHALL BE A MIN. OF 6".

The Architect/Engineer assumes
responsibility for appropriate
use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS CONCRETE DRIVEWAY APPROACH TYPICAL	REVISION DATE	REVISED 6/25/2015 WBO
		REVISION DATE	ADOPTED 6/21/2006 TRB
DATE	1/2003	DATE	1/2003
DESIGNED BY	NTS	APPROVED BY	TRB
CHECKED BY	MRS	APPROVED BY	TRB



APRON OFFSET SIDEWALK AT DRIVEWAY
TYPE 12



SETBACK SIDEWALK AT DRIVEWAY
TYPE 13

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS DRIVEWAY APRONS TYPES 12 & 13	REVISION DATE	REVISED 7/7/2015 WBO
		REVISION DATE	ADOPTED 6/21/2006 TRB
DATE	1/2003	DATE	1/2003
DESIGNED BY	NTS	APPROVED BY	TRB
CHECKED BY	MRS	APPROVED BY	TRB

The Architect/Engineer assumes
responsibility for appropriate
use of this standard.

**PAPE-DAWSON
ENGINEERS**
AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
1800 N. MOORE AVE., SUITE 300 | AUSTIN, TX 78758 | 512.464.8711
TYPE FIRM REGISTRATION #470 / TYPE FIRM REGISTRATION #1006801

SHEPHERD'S VILLAGE
502 W. 21ST GEORGETOWN,
TX 78626
PAVING AND DRAINAGE DETAILS

CITY JOB No. 2024-39-SDP
JOB NO. 51466-00
DATE MARCH 2024
DESIGNER BA/JS/AD
CHECKED AC DRAWN BA
SHEET 15 OF 54

AGENT AUTHORIZATION

Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I Debbie Hoffman,
Print Name
Executive Director,
Title - Owner/President/Other
of Habitat for Humanity of Williamson County, Texas,
Corporation/Partnership/Entity Name
have authorized Michael Fisher, P.E.
Print Name of Agent/Engineer
of Pape-Dawson Consulting Engineers, LLC
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Debbie Hoffman
Applicant's Signature

3-20-2024
Date

THE STATE OF Texas §

County of Williamson §

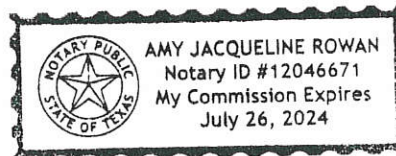
BEFORE ME, the undersigned authority, on this day personally appeared Debbie Hoffman known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 20 day of March 24.

Amy Jacqueline Rowan
NOTARY PUBLIC

Amy Jacqueline Rowan
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: July 26, 2024



APPLICATION FEE FORM

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Shepherd's Village

Regulated Entity Location: 502 West 22nd Street, Georgetown, TX 78626

Name of Customer: Habitat for Humanity - Williamson County

Contact Person: Debbie Hoffman

Phone: 512-863-4344

Customer Reference Number (if issued):CN _____

Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment.** This payment is being submitted to:

☒ Austin Regional Office

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone

☐ Contributing Zone

☐ Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	0.95 Acres	\$ 3,000.00
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: _____

Debbie Hoffman

Date: _____

4-26-24

Executive Director

Habitat for Humanity of W.C., TX

Application Fee Schedule

Texas Commission on Environmental Quality

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

<i>Project</i>	<i>Project Area in Acres</i>	<i>Fee</i>
One Single Family Residential Dwelling	< 5	\$650
Multiple Single Family Residential and Parks	< 5	\$1,500
	5 < 10	\$3,000
	10 < 40	\$4,000
	40 < 100	\$6,500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1	\$3,000
	1 < 5	\$4,000
	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000

Organized Sewage Collection Systems and Modifications

<i>Project</i>	<i>Cost per Linear Foot</i>	<i>Minimum Fee- Maximum Fee</i>
Sewage Collection Systems	\$0.50	\$650 - \$6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

<i>Project</i>	<i>Cost per Tank or Piping System</i>	<i>Minimum Fee- Maximum Fee</i>
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

Exception Requests

<i>Project</i>	<i>Fee</i>
Exception Request	\$500

Extension of Time Requests

<i>Project</i>	<i>Fee</i>
Extension of Time Request	\$150

CORE DATA FORM



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.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
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		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)			
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>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).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
Habitat for Humanity of Williamson County, Texas					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
152300101		17429073715		74-290-7371	NA
11. Type of Customer:		<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
12. Number of Employees				13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:		2108 N Austin Avenue			
City		Georgetown		State	TX
ZIP		78626		ZIP + 4	
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information								
<i>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).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
Shepherd's Village								
23. Street Address of the Regulated Entity: (No PO Boxes)		502 W 21 st Street						
		City	Georgetown	State	TX	ZIP	78626	ZIP + 4
24. County		Williamson						

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

25. Description to Physical Location:								
26. Nearest City					State		Nearest ZIP Code	
<i>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).</i>								
27. Latitude (N) In Decimal:						28. Longitude (W) In Decimal:		
Degrees	Minutes		Seconds		Degrees	Minutes		Seconds
30	37		26		97	40		50
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)		
8399				62422				
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Provide affordable housing.								
34. Mailing Address:		2108 N Austin Avenue						
		City	Georgetown	State	TX	ZIP	78626	ZIP + 4
35. E-Mail Address:		debbieh@williamsonhabitat.org						
36. Telephone Number			37. Extension or Code			38. Fax Number (if applicable)		
(512) 863-4344						() -		

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.


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Michael Fisher, P.E.	41. Title:	Senior Vice President
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 454-8711		() -	mfisher@pape-dawson.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:	Pape-Dawson Consulting Engineers, LLC.	Job Title:	Senior Vice President
Name (In Print):	Michael Fisher, P.E.	Phone:	(512) 454- 8711
Signature:		Date:	6/19/24