

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: Williams Drive Mobility Enhancements					2. Regulated Entity No.:				
3. Customer Name: City of Georgetown					4. Customer No.:				
5. Project Type: (Please circle/check one)	New		Modification		Extension		Exception		
6. Plan Type: (Please circle/check one)	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential		Non-residential			8. Site (acres):			
9. Application Fee:	\$500		10. Permanent BMP(s):			Grassy Swale			
11. SCS (Linear Ft.):	n/a		12. AST/UST (No. Tanks):			none			
13. County:	Williamson		14. Watershed:			North 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)	☐ Edwards Aquifer Authority ☐ Barton Springs/ Edwards Aquifer ☐ Hays Trinity ☐ Plum Creek	☐ Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	☐ Austin ☐ Buda ☐ Dripping Springs ☐ Kyle ☐ Mountain City ☐ San Marcos ☐ Wimberley ☐ Woodcreek	☐ Austin ☐ Bee Cave ☐ Pflugerville ☐ Rollingwood ☐ Round Rock ☐ Sunset Valley ☐ West Lake Hills	☐ Austin ☐ Cedar Park ☐ Florence ☐ Georgetown ☐ Jerrell ☐ Leander ☐ Liberty Hill ☐ Pflugerville ☐ Round Rock

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

Md Kamrul Islam, P.E.

Print Name of Customer/Authorized Agent

9/15/25

Signature of Customer/Authorized Agent

Date

****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 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: Md Kamrul Islam, P.E.

Date: 09-15-2025

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: Williams Drive Mobility Enhancements

2. County: Williamson

3. Stream Basin: Brazos River Basin

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: JONATHAN MORALES

Entity: CITY OF GEORGETOWN

Mailing Address: 300-1 Industrial Ave.

City, State: Georgetown, TX

Zip: 78626

Telephone: (512) 930-2572

FAX: n/a

Email Address: moose.morales@georgetowntexas.gov

8. Agent/Representative (If any):

Contact Person: Md Kamrul Islam, P.E

Entity: RPS Infrastructure, Inc.

Mailing Address: 4801 Southwest Pkwy, Pkwy 1, Suite 185

City, State: Austin, Texas

Zip: 78735

Telephone: 210-299-7912

FAX: N/A

Email Address: kamrul.islam@tetrattech.com

9. Project Location:

- ☒ The project site is located inside the city limits of Georgetown.
- ☐ 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.

WILLIAMS DRIVE - FROM SERENADA DRIVE TO SB I-35 FRONTAGE ROAD,
GEORGETOWN, WILLIAMSON COUNTY, TEXAS.

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: FEBRUARY 2026

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.

9/4/2025 1:27:02 PM
RPS(TT) - David Jones
Projects\AUS-SP\008261 City of Georgetown\Williams Drive\07.00 CADD\Williams Drive\02-1 General\008261-PROJECT-LAYOUT-01.dgn



rps Texas PE Firm Reg. #F-929
4801 Southwest Pkwy, Pkwy 1, Suite 185, Austin, Texas 78735
T +1 512 328 5771 E us@infrastructure@rpsgroup.com

LEGEND

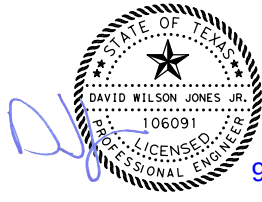
- EXIST. R.O.W.
- PROP. R.O.W.
- PROP. EASEMENT
- PROPERTY LINE
- MILL & OVERLAY
- FULL DEPTH PAVEMENT
- CONCRETE MEDIAN
- STAMPED CONCRETE

NOTES:

- STATIONS, OFFSETS, AND RADII ARE MEASURED FROM FACE OF CURB OR LIP OF GUTTER UNLESS OTHERWISE NOTED.
- FOR SURVEY POINT INFORMATION, SEE HORIZONTAL ALIGNMENT & SURVEY DATA SHEET.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITIES BEFORE BEGINNING ANY TYPE OF WORK.
- MILL AND OVERLAY WILL FOLLOW EXISTING CROSS SLOPE.
- SEE MEDIAN ISLAND AND

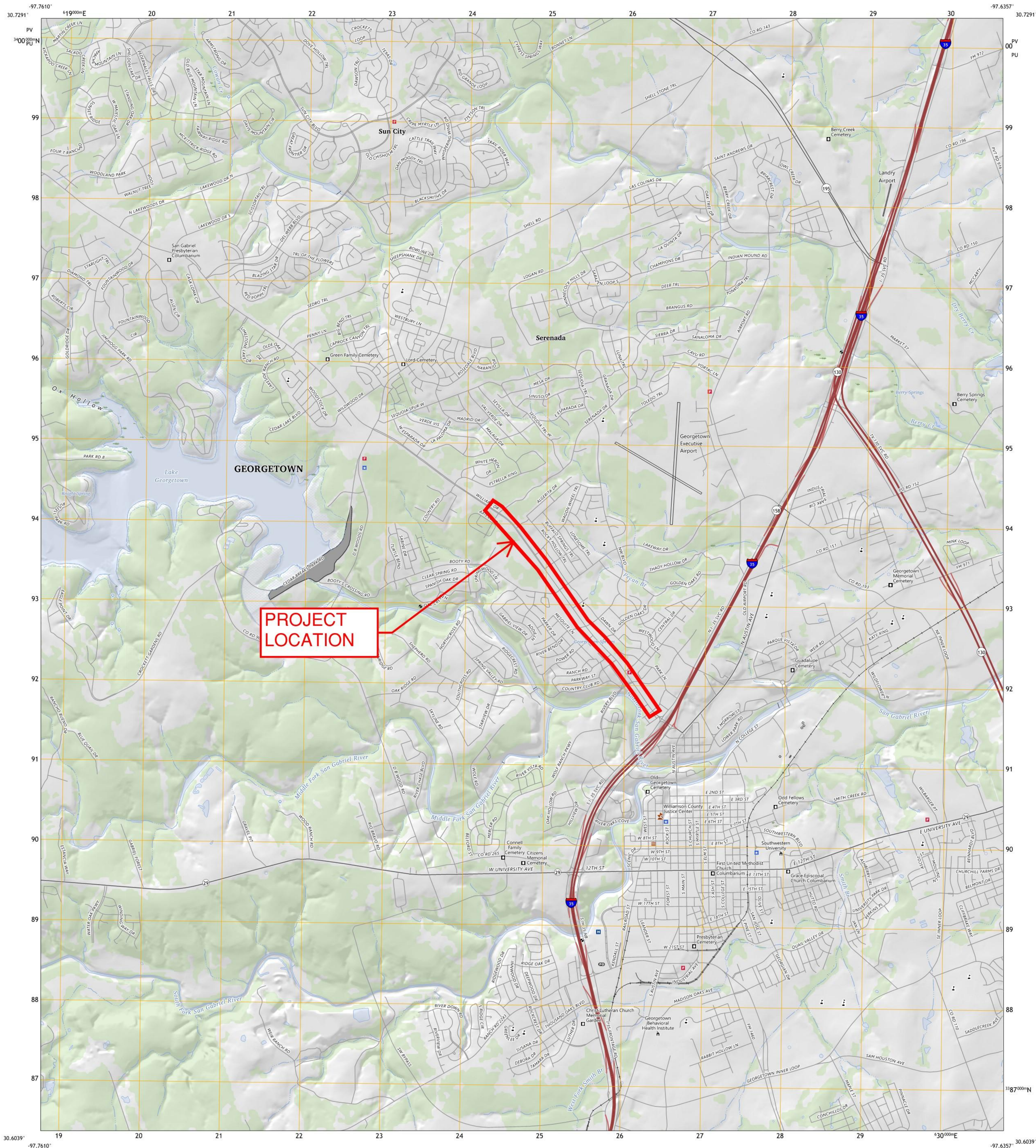
SCALE: 1" = 500'
0 250 500

REV	DESCRIPTION	BY	DATE



WILLIAMS DRIVE MOBILITY ENHANCEMENTS PROJECT LAYOUT

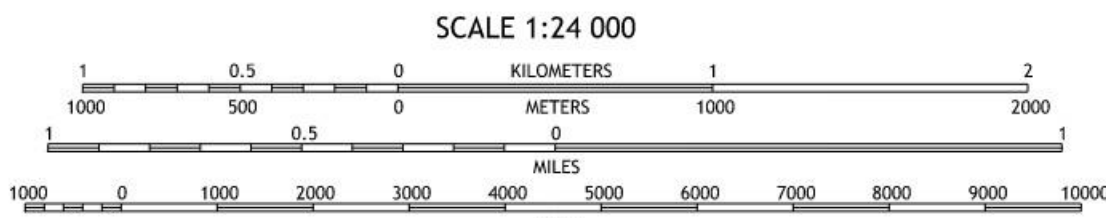
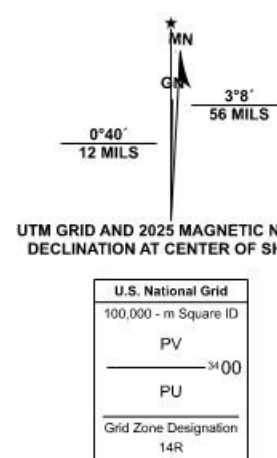
RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 1 of 1	Sheet No. 3
Date 9/4/2025		



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid: UNIVERSAL TRANSVERSE MERCATOR, ZONE 14R
Data is provided by The National Map (TNM), is the best available at the time of map
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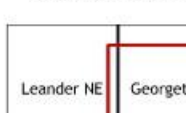


CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS - Medium



QUADRANGLE LOCATION

Leander NE Georgetown
Leander Round Rock



QUADRANGLE LOCATION

Leander NE Georgetown
Leander Round Rock

ADJOINING QUADRANGLES



7.5-MINUTE TOPO, TX
2025

Attachment C – Project Description

This attachment describes the Williams Drive Mobility Enhancements project scope, site conditions, impervious cover calculations, and proposed Permanent Best Management Practices (BMPs) in accordance with TCEQ General Information Form instructions.

- **Area of the Site**

The total project area included in the project for the purpose of the Water Quality Protection Plan (WPAP) is 27.15 acres. The regulated activities, which include pavement milling, overlay, and widening, are limited to the existing public right-of-way along the 2.03-mile stretch of Williams Drive.

- **Offsite Areas**

Runoff from small areas immediately outside the existing right-of-way, including sheet flow from adjacent commercial properties on the north side of Williams Drive and the east side of Serenada Drive, flows directly into the proposed Best Management Practice (BMP). The BMP is designed to manage and treat this combined runoff from both on-site and adjacent off-site areas before discharge.

- **Impervious Cover**

The project is requesting an exception due to a negligible increase in impervious cover.

Condition	Impervious Area (acres)
Pre-development Impervious Area	20.04 acres
Post-development Impervious Area	20.09 acres
Net Increase	0.05 acres
Percentage Increase	0.23%

The minor increase is primarily due to the installation of right-turn lane widening at Serenada Drive.

- **Permanent BMP(s)**

The permanent Best Management Practice (BMP) proposed is a single engineered vegetated roadside grassy swale. The swale will serve as a natural filtration system, allowing stormwater to flow through vegetation that helps filter out suspended solids and pollutants.

This swale is designed to deliver equivalent water quality protection for the minor 0.05-acre increase in impervious cover. The runoff will be treated before discharging into the City's existing storm-sewer system.

- **Proposed Site Use**

The proposed site use will remain as a public urban arterial corridor for municipal mobility. The project focuses on corridor reconstruction and safety enhancements, including new traffic signals, pedestrian facilities, and street lighting.

- **Site History**

The site is a pre-existing, fully developed public right-of-way. It is an established urban corridor that already has curb, gutter, and storm sewer infrastructure in place.

- **Previous Development**

The project area is located within a segment of previously developed and paved roadway. The work involves improving and upgrading existing infrastructure rather than converting undeveloped land. Current site conditions include existing paved and/or unpaved roads and some undisturbed/uncleared undeveloped areas within the right-of-way.

- **Areas to be Demolished**

The project involves the demolition and reconstruction of existing roadway surfaces and features. Key demolition activities include:

- Milling and overlaying 2" of hot-mix asphalt along the corridor.
- Excavation for curb tie-ins, swale construction, and signal-pole foundations.
- Minor removal of existing pavement for widening at the westbound approach at Serenada Drive to accommodate a new right-turn lane.

Attachment –Exception to Geologic Assessment

A geologic assessment was not conducted for this project; therefore, we request an exception.

Recharge and Transition Zone Exception Request Form

Texas Commission on Environmental Quality

30 TAC §213.9 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 **Recharge and Transition Zone Exception Request Form** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Md Kamrul Islam, P.E.

Date: 09/16/2025

Signature of Customer/Agent:



Regulated Entity Name: Williams Drive Mobility Enhancements

Exception Request

1. ☒ **Attachment A - Nature of Exception.** A narrative description of the nature of each exception requested is attached. All provisions of 30 TAC §213 Subchapter A for which an exception is being requested have been identified in the description.
2. ☒ **Attachment B - Documentation of Equivalent Water Quality Protection.** Documentation demonstrating equivalent water quality protection for the Edwards Aquifer is attached.

Administrative Information

3. ☒ 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.
4. ☒ The applicant understands that no exception will be granted for a prohibited activity in Chapter 213.
5. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

Attachment A – Nature of Exception

Narrative for Exception Request:

The City of Georgetown proposes corridor reconstruction and safety enhancements along Williams Drive from Serenada Drive (Sta. 205+57.74) eastward to Southbound I-35 Frontage Road (Sta. 312+69.86). This 2.03-mile stretch is an existing urban arterial, fully developed, with curb, gutter and storm sewer already in place. Improvements are focused on operational and safety upgrades only—no new undeveloped land is being converted.

Proposed Changes:

Of the total 27.15 acres of project area within the right-of-way (ROW), 20.04 acres are impervious. Work includes constructing a raised median with curb and gutter; milling and overlaying 2" of hot-mix asphalt; widening the westbound approach at Serenada Drive for a right-turn lane; installing traffic signals, pedestrian facilities, and street lighting; and grading and seeding a stormwater swale. Post-development impervious cover will be 20.09 acres, a 0.05-acre (0.23%) increase.

Justification for Exception:

- **Negligible Impact:** The 0.23% increase in impervious area (0.05 acres) is minimal relative to the existing 20.04 acres and will not measurably alter peak runoff rates or volumes.
- **Water Quality Protection:** A single engineered vegetated roadside grassy swale is proposed and will deliver Equivalent Water Quality Protection for the minor 0.05-acre increase in impervious cover. The swale will provide natural filtration and infiltration before discharge into the City's existing storm-sewer system via safety-end treatments, meeting TCEQ water-quality requirements
- **Appropriateness of Exception Request:** Because the corridor lies entirely within a previously developed public right-of-way and the impervious increase is negligible—coupled with enhanced stormwater pretreatment—this request aligns with the Edwards Aquifer rules' allowance for minor impervious cover increases when adequate water-quality controls are provided.

Attachment B: Documentation of Equivalent Water Quality Protection

Project Overview

The City of Georgetown's Williams Drive corridor reconstruction (Serenada Drive to Southbound I-35 Frontage Road) will upgrade pavement, safety, signals, lighting and drainage in an already developed right-of-way. No undeveloped land is converted.

Existing Conditions

- Total project area included in the plan: 27.15 acres.
- Predevelopment impervious area: 20.04 acres
- Total post-development impervious area: 20.09 acres
- Net Increase in Impervious Cover: 0.05 acres
- This results in a 0.23% increase in impervious cover.

Proposed Changes

The project adds 0.05 acres of impervious surface within the existing corridor limits. Work items creating new cover include the raised median curb & gutter, right-turn lane widening at Serenada Drive, signal and lighting foundations, and curb tie-ins at the intersection. Because this increase is negligible (0.23%), off-site runoff rates and volumes will not be adversely affected.

Best Management Practices (BMPs)

A grassy swale will be implemented to manage stormwater runoff effectively. This swale will serve as a natural filtration system, allowing stormwater to flow through vegetation that helps filter out suspended solids and pollutants before discharging into the existing storm sewer system.

Specifications of the grassy swale are shown below.

- Swale Slope = 0.005 ft/ft
- Side Slope = 6:1
- Bottom width = 2 ft
- Swale Depth = 1.4 ft
- Swale minimum length calculation result = 51.91 ft

BMP TSS treatment calculations per TCEQ Technical Guidance manual RG-348.

- The required TSS removal for the total project is calculated as follows:
 - $L_M = 27 \cdot (A_N \times P)$
 - Where:
 - A_N = Net increase in impervious area for the project
 - P = Average annual precipitation = 32 inches
 - Given:
 - $A_N = 0.05$ acres
 - Calculation:
 - $L_M = 40$ lbs
- Maximum TSS Load Removed (L_R) for the drainage basin.
 - $L_R = (\text{BMP efficiency}) \times P \times (A_I \times 34.6 + A_p \times 0.54)$
 - Where:
 - A_I = Impervious area proposed in the BMP catchment area
 - A_p = Pervious area remaining in the BMP catchment area
 - L_R = TSS Load removed from this catchment area by the proposed BMP
 - $A_I = 0.14$ acres
 - $A_p = 0.17$ acres
 - $L_R = 109$ lbs
- L = Minimum Swale Length = 51.91 ft

Monitoring and Maintenance Plan

The grassy swale will undergo regular inspections and maintenance to ensure its effectiveness in treating stormwater runoff. Maintenance activities will include sediment removal and checks to confirm operational efficiency.

Compliance with Regulations

The proposed project aligns with the intent of the Edwards Aquifer rules by implementing effective BMPs that ensure water quality is protected, thereby justifying the exception request.

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: Md Kamrul Islam, P.E.

Date: 09/15/2025

Signature of Customer/Agent:



Regulated Entity Name: Williams Drive Mobility Enhancements

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: _____

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: _____

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 - Spill Response Actions

This project will prioritize spill prevention through comprehensive worker training on potential hazards, strict adherence to Material Safety Data Sheets (MSDS) for all on-site materials, and the provision of appropriate Personal Protective Equipment (PPE). While on-site storage of hazardous substances is prohibited, the operation of construction equipment necessitates careful handling of fuels, lubricants, and potential paving materials. In the event of a spill, immediate containment and cleanup procedures as outlined in the MSDS will be enacted, with prompt notification of the designated project Spill Coordinator and relevant authorities. Contaminated materials will be properly disposed of at an approved facility, ensuring compliance with all applicable local, state, and federal regulations. All appropriate authorities will be notified as soon as a spill is discovered. The emergency response phone number for the State of Texas Spill-Reporting Hotline is 1-800-832-8224.

Attachment B - Potential Sources of Contamination

This corridor reconstruction project along Williams Drive involves various construction activities that present potential sources of contamination. These sources can be broadly categorized into sediment-related and non-sediment-related issues. Sediment-related contamination includes clearing, grading, excavation for curb tie-ins, swale and signal-pole foundations, and pavement widening, all of which disturb existing soils and increase the risk of sediment-laden runoff during rainfall events. Temporary stockpiles of asphalt millings, broken concrete, and imported aggregate are likewise vulnerable to wind and water erosion, while vehicle tracking of sediment onto adjacent roadways can result in pollutants being washed into the storm-sewer network. Non-sediment-related contamination involves fuel, lubricants, and chemicals. On-site fuelling and maintenance of excavators, pavers, rollers, dump trucks, and light vehicles pose a risk of spills or leaks of diesel, gasoline, hydraulic fluids, and motor oil. Asphalt milling and paving operations can release asphaltic materials and polycyclic aromatic hydrocarbons, and concrete mixing and wash-out activities introduce high-pH wash water, cement fines, and additives. Storage and handling of paints, solvents, curing compounds, and portable sanitary facilities further present potential for VOCs, heavy-metal additives, and pathogens entering runoff. To minimize these potential sources of contamination, the contractor will implement the Temporary BMPs described in Attachment D—such as silt fences, temporary sediment traps, stabilized construction entrances, inlet protection, designated concrete wash-out pads, secondary containment, and spill-response procedures—and will conduct regular inspections, maintenance, and staff training in accordance with Attachment J to ensure controls remain effective throughout construction.

Attachment C - Sequence of Construction

This attachment describes the sequence of major soil-disturbing activities for the Williams Drive Mobility Enhancements project (Serenada Drive (Sta. 205+57.74) to Southbound I-35 Frontage Road (Sta. 312+69.86). For each activity, the approximate acreage disturbed, and the temporary controls integrated into the work are noted.

- **Traffic Control and Site Preparation:**
 - Installation of temporary traffic control devices and signage.
 - Installation of initial erosion and sediment control measures (e.g., silt fence, rock file).
- **Clearing and Grubbing:**
 - Removal of existing vegetation, including trees, shrubs, and grass, within the construction limits.
 - Stripping and stockpiling of topsoil for later use in restoration.
- **Excavation and Grading:**
 - Excavation and rough grading for right-turn lane widening at Serenada Drive, roadside swale trenching, curb and gutter, and sidewalk.
- **Curb and Gutter and Sidewalk Construction:**
 - Removal of existing signage, signal poles, light standards, and any ancillary fixtures within the work zone.
 - Formation and pouring of concrete curb, gutter, raised median elements, and ADA curb ramps.
 - Construction of new sidewalk sections with secondary containment and coordinated with perimeter BMP upkeep.
- **Pavement Construction:**
 - Sawcutting of existing asphalt and concrete curb lines to achieve neat tie-ins for new pavement and curb.
 - Placement of 10-inch flexible base course in the widened right-turn lane at Serenada Drive. Application of prime coat to prepared base, followed by placement and compaction of 4-inch base course hot-mix asphaltic concrete, and 2-inch surface course hot-mix asphaltic concrete pavement as described on plans.
 - Cold milling of 2 inches of existing asphalt along the Williams Drive corridor and off haul of millings.
 - Placement and compaction of 2-inch surface course asphalt layer overlay on milled corridor segments.

- Placement of pavement markings, thermoplastic legends, and raised pavement markers per City and TxDOT standards.
- **Final Grading and Restoration:**
 - Final grading of the site to ensure proper drainage.
 - Placement of topsoil and seeding/sodding in disturbed areas.
 - Removal of temporary erosion and sediment control measures after site stabilization.
 - Final site cleanup and demobilization.

For each activity, appropriate temporary erosion and sediment control measures will be implemented and maintained throughout the construction process. The general timing of these measures will coincide with the commencement of each activity and will remain in place until final site stabilization is achieved.

Attachment D - Temporary Best Management Practices and Measures

The following Temporary Best Management Practices (BMPs) and measures will be implemented to prevent pollution of surface water, groundwater, and stormwater during construction of this project.

a. Prevention of Pollution from On-Site or Off-Site Flows:

- **Description:** Construction activities will disturb soil, creating the potential for sediment-laden runoff. Potential pollutants include sediment, fuels, and lubricants.
- **BMPs and Measures:**
 - Temporary sediment fences will be installed to control sediment runoff.
 - Disturbed areas will be stabilized with temporary seeding and mulching.
 - Spill prevention and control measures will be implemented to prevent the release of fuels and lubricants.
 - Proper waste management practices will be followed.
 - The site will be graded to direct runoff to stabilized outlets.

b. Prevention of Pollutants from Entering Surface Streams, Sensitive Features, or the Aquifer:

- **Description:** There are no surface streams or sensitive features located within the immediate project area.
- **BMPs and Measures:**
 - Erosion and sediment control measures will be implemented to prevent pollutants from leaving the site and entering downstream waters.
 - The Edwards Aquifer is located within the region, and therefore all precautions will be taken to prevent any pollutants from entering the aquifer.

c. Maintenance of Flow to Naturally Occurring Sensitive Features:

- **Description:** Although a formal geologic assessment was not performed, BMPs and measures will, to the maximum extent practicable, preserve natural flow to any sensitive features that may be identified during TCEQ inspections or encountered during excavation, blasting, or other construction activities.
- **BMPs and Measures:**
 - Existing drainage patterns will be maintained to the extent practicable.

d. Additional Information:

- All BMPs will be inspected and maintained regularly per city of Georgetown standards.
- The construction contractor will be responsible for implementing and maintaining all BMPs.

Attachment F - Structural Practices

This attachment outlines the structural practices implemented to manage runoff and minimize erosion during the construction of this project.

- a. **Perimeter Sediment Control:** - A system of sediment control fence will be installed along the perimeter of the disturbed areas to intercept and divert runoff. This will prevent sediment-laden water from leaving the site and impacting surrounding areas. The fence will also provide localized storage by temporarily ponding runoff, allowing sediment to settle out.
- b. **Localized Erosion Control & Site Stabilization:** - Localized erosion control measures will be strategically placed to minimize soil disturbance and prevent erosion within the construction footprint. Site stabilization techniques, such as temporary seeding and mulching, will be employed to protect exposed soils from erosion and establish a protective cover.
- c. **Runoff Management & Limitation of Discharge:** - Runoff will be managed through strategically placed controls to slow down and filter water before it leaves the site. These controls, including the sediment control fence, and rock filter dams will act as barriers, promoting sedimentation and limiting the discharge of pollutants.
- d. **Floodplain Protection:** - All structural practices will be implemented outside of designated floodplain areas to avoid any potential impacts.
- e. **Ongoing Monitoring and Maintenance:** - Regular inspections and maintenance will be conducted to ensure the effectiveness of all structural practices throughout the construction period.
- f. **Contractor Responsibility:** - The construction contractor will be responsible for the proper installation, maintenance, and removal of all structural practices.

- This plan is based on the attached plans, city of Georgetown standards and TxDOT standards.

Geologic assessment was not conducted, however to the maximum extent practical BMP's are measures will maintain will float to natural occurring sensitive features if identified during either TCQ inspections or during excavation blasting or construction.

Attachment I - Inspection and Maintenance for BMPs

This attachment outlines the maintenance procedures for the temporary Best Management Practices (BMPs) implemented for erosion and sediment control during the construction of this project.

1. Silt Fence

- **Location:** Downslope perimeter of disturbed areas.
- **Frequency:** Weekly and within 24 hrs after $\geq 0.25"$ rainfall.
- **Inspection Criteria:**
 - Fabric intact, trenched, and staked; no tears, gaps, or undermining.
 - Sediment accumulation $< \frac{1}{2}$ fence height.
- **Maintenance:**
 - Re-stake or re-trench loose sections immediately.
 - Patch or replace torn fabric within 24 hrs (lap $\geq 12"$).
 - Remove sediment when buildup $\geq \frac{1}{2}$ fence height.
- **Records:** Fence location, condition, sediment removal, repairs.

2. Sediment Trap

- **Location:** Low points of disturbed areas.
- **Frequency:** Weekly and within 24 hrs after $\geq 0.5"$ rainfall.
- **Inspection Criteria:**
 - Outlet unobstructed; embankment stable.
 - Sediment depth $< 50\%$ of design storage.
- **Maintenance:**
 - Remove sediment when capacity reduced by 50%.
 - Repair embankment or outlet immediately.
- **Records:** Trap ID, sediment depth, removal date, disposal location.

3. Check Dams (Rock or Sandbag)

- **Location:** Temporary channels or swales.
- **Frequency:** Bi-weekly and within 24 hrs after $\geq 0.25"$ rainfall.
- **Inspection Criteria:**
 - Weir crest level; no scour or undercutting.
- **Maintenance:**
 - Reset displaced material; restore height.
- **Records:** Storm date, issues, materials added.

Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

This attachment details the schedule for both interim and permanent soil stabilization. Interim stabilization, encompassing temporary measures like seeding, mulching, and erosion control blankets, will be implemented as soon as practicable following the temporary or permanent cessation of construction activities in any area, ensuring stabilization occurs within seven days. Permanent stabilization, including final grading, topsoil placement, and the establishment of permanent vegetation, will commence promptly after final grading is completed. Records documenting the dates of major grading, activity cessation, and stabilization initiation will be maintained on-site. The construction contractor is responsible for the implementation and upkeep of all soil stabilization practices throughout the project.

4. Stabilized Construction Entrance/Exit

- **Location:** Site access points.
- **Frequency:** Daily during active hauling; weekly otherwise; after $\geq 0.5''$ rainfall.
- **Inspection Criteria:**
 - Aggregate depth $\geq 6''$; geotextile intact; no excessive mud tracking.
- **Maintenance:**
 - Remove tracked sediment from roads immediately.
 - Add stone to maintain thickness; replace geotextile within 48 hrs.
- **Records:** Location, maintenance performed, stone added.

5. Temporary Seeding/Blankets

- **Location:** Graded slopes and stockpiles.
- **Frequency:** Every 14 days and after sediment-producing storms.
- **Inspection Criteria:**
 - $\geq 70\%$ vegetative cover within 14 days.
 - Blankets anchored; no displacement.
- **Maintenance:**
 - Reseed bare spots; reapply mulch or blankets.
 - Re-staple loose edges.
- **Records:** Seeding dates, seed mix, fertilizer, percent cover.

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)(li), (E), and (5), Effective June 1, 1999

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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: Md Kamrul Islam, P.E

Date: 09/16/2025

Signature of Customer/Agent



Regulated Entity Name: Williams Drive Mobility Enhancements

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 B – BMP for Upgradient Stormwater

The project drainage area PROP-A10-SE1 captures runoff from the proposed swale adjacent to Williams Drive, as well as from commercial land located just outside the Williams Drive right-of-way on the north side and Serenada Drive on the east side. This runoff sheet-flows directly into the proposed grassy swale, which is designed to manage and treat stormwater effectively. The swale will treat this combined runoff before it is discharged into the existing storm sewer system via a safety end treatment (SET) for the culvert crossing Serenada Drive.

To further enhance water quality and stabilize the area, all disturbed sections of the right-of-way adjacent to the new project area will be revegetated. This revegetation will help prevent erosion, improve soil stability, and contribute to the overall effectiveness of the stormwater management system.

Overall, the combination of the grassy swale and the planned revegetation efforts will work together to effectively manage water quality and runoff from both on-site and off-site areas.

Attachment C – BMP for on-site Stormwater

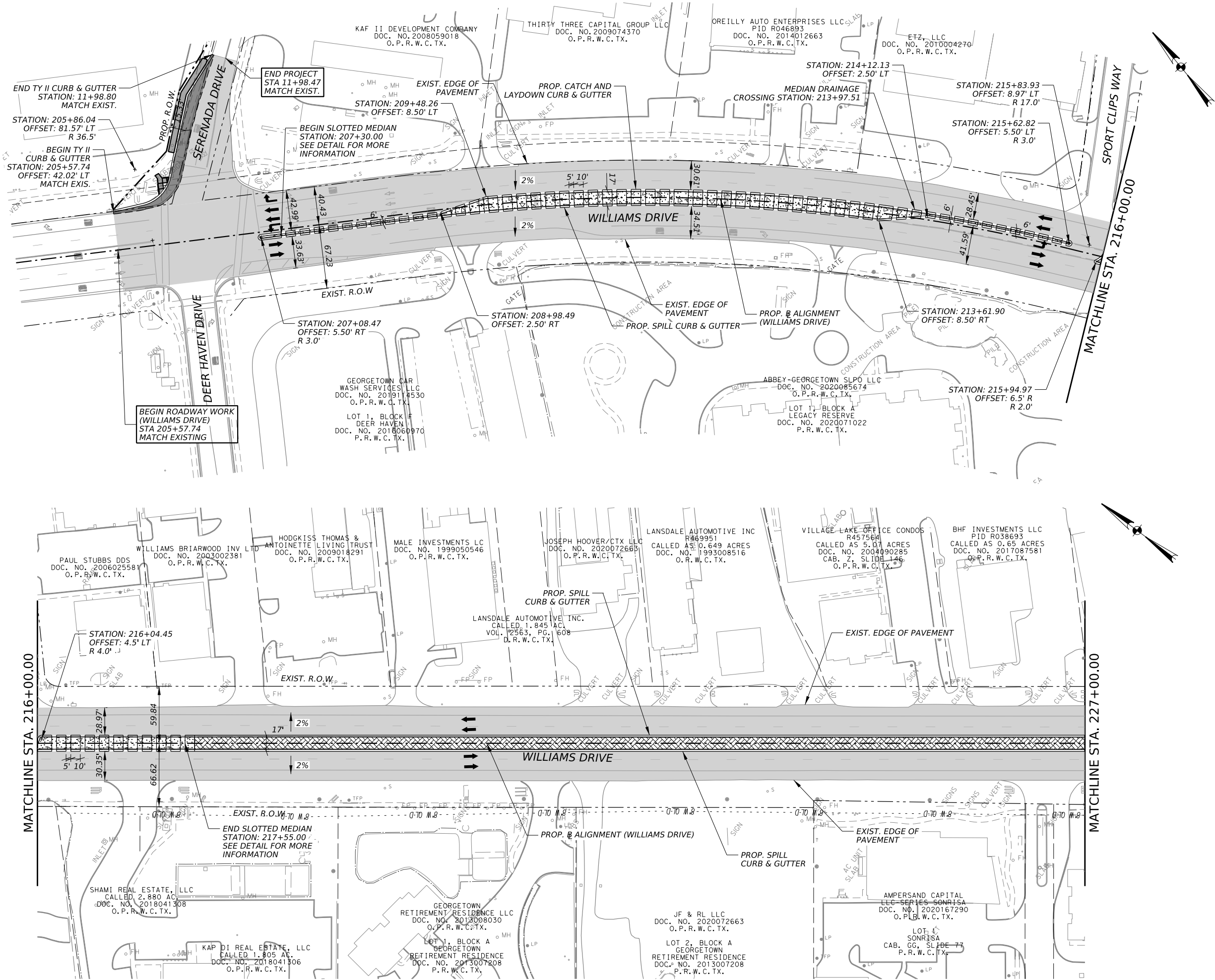
To manage and treat stormwater generated by the Williams Drive corridor improvements (Serenada Dr to SB I-35 Frontage Road), a permanent vegetated swale has been constructed east of Serenada Dr on the north side of Williams Dr. Runoff from existing impervious roadway surfaces is routed to this swale for pretreatment. The swale functions as a combined filtration–infiltration BMP: dense vegetation and the underlying soil matrix filter suspended solids and associated pollutants, while partial infiltration helps attenuate peak discharge. Treated flows are then conveyed to the City’s existing drainage system through a safety end treatment (SET).

This BMP is sized and operated to provide equivalent water quality protection—removing at least 80% of the incremental increase in annual total suspended solids (TSS) attributable to the project—consistent with 30 TAC §213 requirements and the TCEQ Edwards Aquifer technical guidance (RG-348). Compliance will be demonstrated using TCEQ’s TSS Removal Calculation Spreadsheet for the applicable drainage basin.

Attachment F – Construction Plans

The construction plans are attached on the following pages.

9/25/2025 7:37:13 PM RPS(11) - Moehnera Marao
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LEGEND

- EXIST. R.O.W.
- PROP. R.O.W.
- PROP. EASEMENT
- PROPERTY LINE
- MILL & OVERLAY
- FULL DEPTH PAVEMENT
- CONCRETE MEDIAN
- STAMPED CONCRETE

NOTES:

- STATIONS, OFFSETS, AND RADII ARE MEASURED FROM FACE OF CURB OR LIP OF GUTTER UNLESS OTHERWISE NOTED.
- FOR SURVEY POINT INFORMATION, SEE HORIZONTAL ALIGNMENT & SURVEY DATA SHEET.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITIES BEFORE BEGINNING ANY TYPE OF WORK.
- MILL AND OVERLAY WILL FOLLOW EXISTING CROSS SLOPE.
- SEE MEDIAN ISLAND AND DRAINAGE CROSSING DETAILS FOR ADDITIONAL INFORMATION.

SCALE: 1" = 100'
0 50 100

REV	DESCRIPTION	BY	DATE



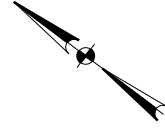
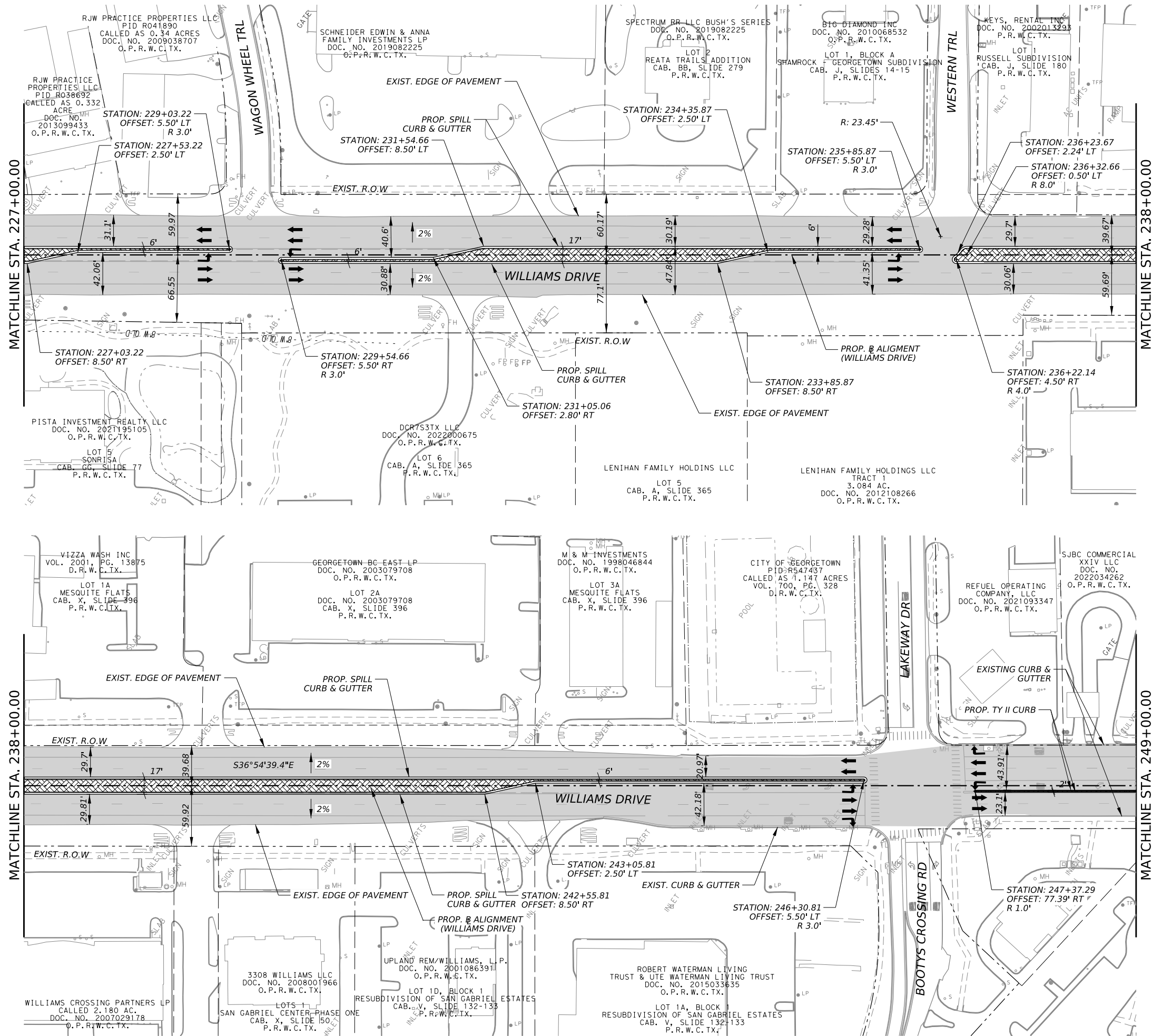
9/29/25

WILLIAMS DRIVE MOBILITY ENHANCEMENTS ROADWAY PLAN

BEGINNING - STA. 227+00.00

RPS Project No. 200-312337-24001		
CS# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 1 of 6	Sheet No. 48
Date 9/25/2025		

9/25/2025 7:37:06 PM *Projects\AUS-SP\008261 City of Georgetown Williams Drive\07.00 CADD\Williams Drive\04-1111 Roadway Detail\02.dgn RPS(11) - Mohera, Maroa





TEXAS PE Firm Reg. #F-929

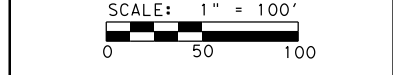
4801 Southwest Pkwy, Pkwy 1, Suite 185, Austin, Texas 78735
T+1 512 328 5771 E usinfrastructure@rpsgroup.com

LEGEND

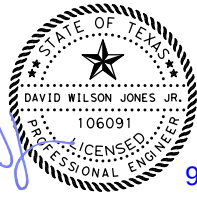
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---	PROP. R.O.W.
---	PROP. EASEMENT
---	PROPERTY LINE
[Pattern]	MILL & OVERLAY
[Pattern]	FULL DEPTH PAVEMENT
[Pattern]	CONCRETE MEDIAN
[Pattern]	STAMPED CONCRETE

- ### NOTES:

 - STATIONS, OFFSETS, AND RADII ARE MEASURED FROM FACE OF CURB OR LIP OF GUTTER UNLESS OTHERWISE NOTED.
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 - MILL AND OVERLAY WILL FOLLOW EXISTING CROSS SLOPE.
 - SEE MEDIAN ISLAND AND DRAINAGE CROSSING DETAILS FOR ADDITIONAL INFORMATION.



REV	DESCRIPTION	BY	DATE



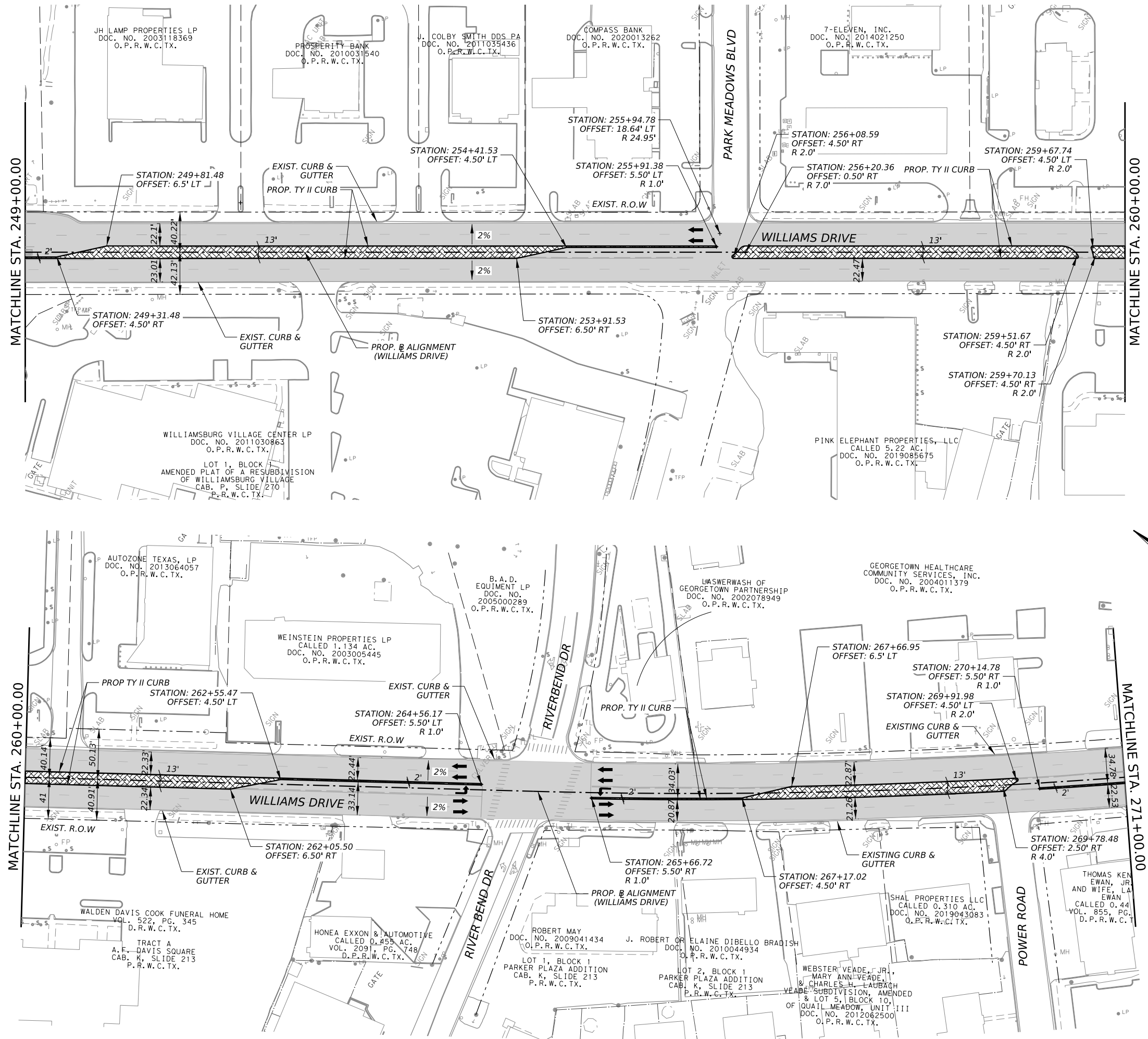
9/29/25

WILLIAMS DRIVE MOBILITY ENHANCEMENTS ROADWAY PLAN

STA. 227+00.00 - STA. 249+00.00

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 2 of 6	Sheet No. 49
Date 9/25/2025		

9/25/2025 7:37:21 PM RPS(11) - Mohera Maroo
C:\Projects\AUS-SP008261\City of Georgetown Williams Drive\07.00 CADD\Williams Drive\04-1111 Roadway Detail\03.dgn



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4801 Southwest Pkwy, Pkwy 1, Suite 185, Austin, Texas 78735
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LEGEND

- EXIST. R.O.W.
- PROP. R.O.W.
- PROP. EASEMENT
- PROPERTY LINE
- MILL & OVERLAY
- FULL DEPTH PAVEMENT
- CONCRETE MEDIAN
- STAMPED CONCRETE

NOTES:

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- MILL AND OVERLAY WILL FOLLOW EXISTING CROSS SLOPE.
- SEE MEDIAN ISLAND AND DRAINAGE CROSSING DETAILS FOR ADDITIONAL INFORMATION.

SCALE: 1" = 100'
0 50 100

REV	DESCRIPTION	BY	DATE

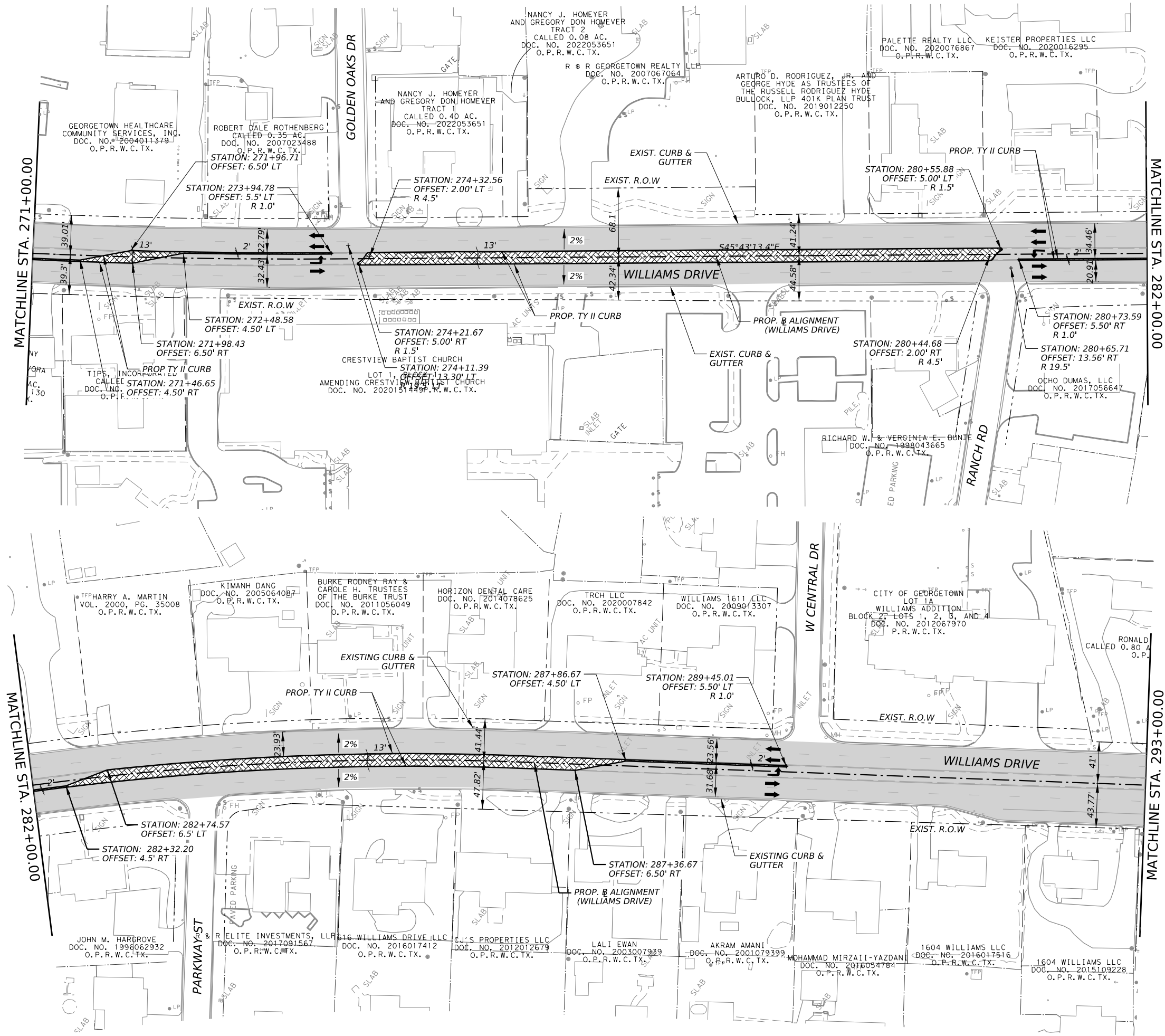


9/29/25

**WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
ROADWAY PLAN**

STA. 249+00.00 - STA. 271+00.00

RPS Project No. 200-312337-24001		
CS# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 3 of 6	Sheet No. 50
Date 9/25/2025		



MATCHLINE STA. 282+00.00

MATCHLINE STA. 282+00.00



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T +1 512 328 5771 E usinfr@rpsgroup.com

LEGEND

- EXIST. R.O.W.
- PROP. R.O.W.
- PROP. EASEMENT
- PROPERTY LINE
- MILL & OVERLAY
- FULL DEPTH PAVEMENT
- CONCRETE MEDIAN
- STAMPED CONCRETE

NOTES:

- STATIONS, OFFSETS, AND RADII ARE MEASURED FROM FACE OF CURB OR LIP OF GUTTER UNLESS OTHERWISE NOTED.
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- SEE MEDIAN ISLAND AND DRAINAGE CROSSING DETAILS FOR ADDITIONAL INFORMATION.

SCALE: 1" = 100'
0 50 100

REV	DESCRIPTION	BY	DATE



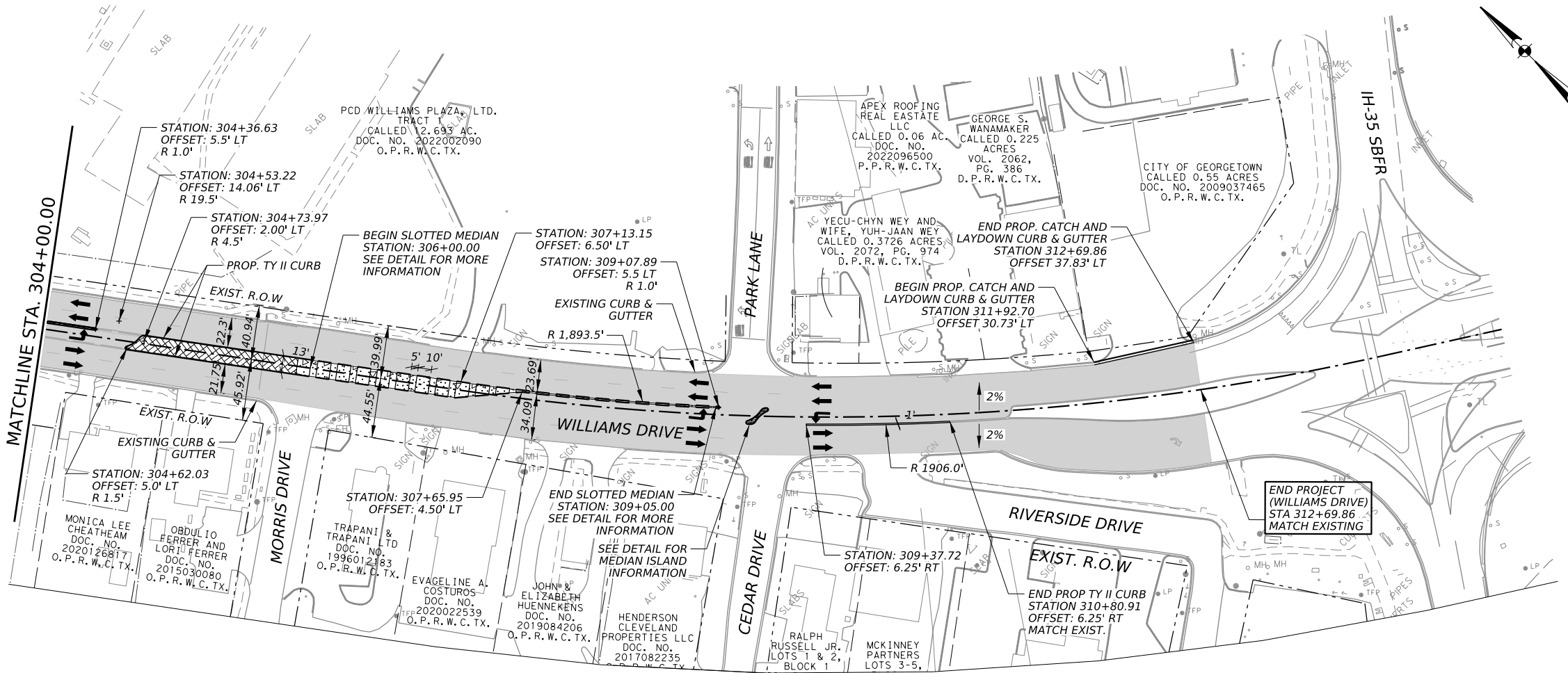
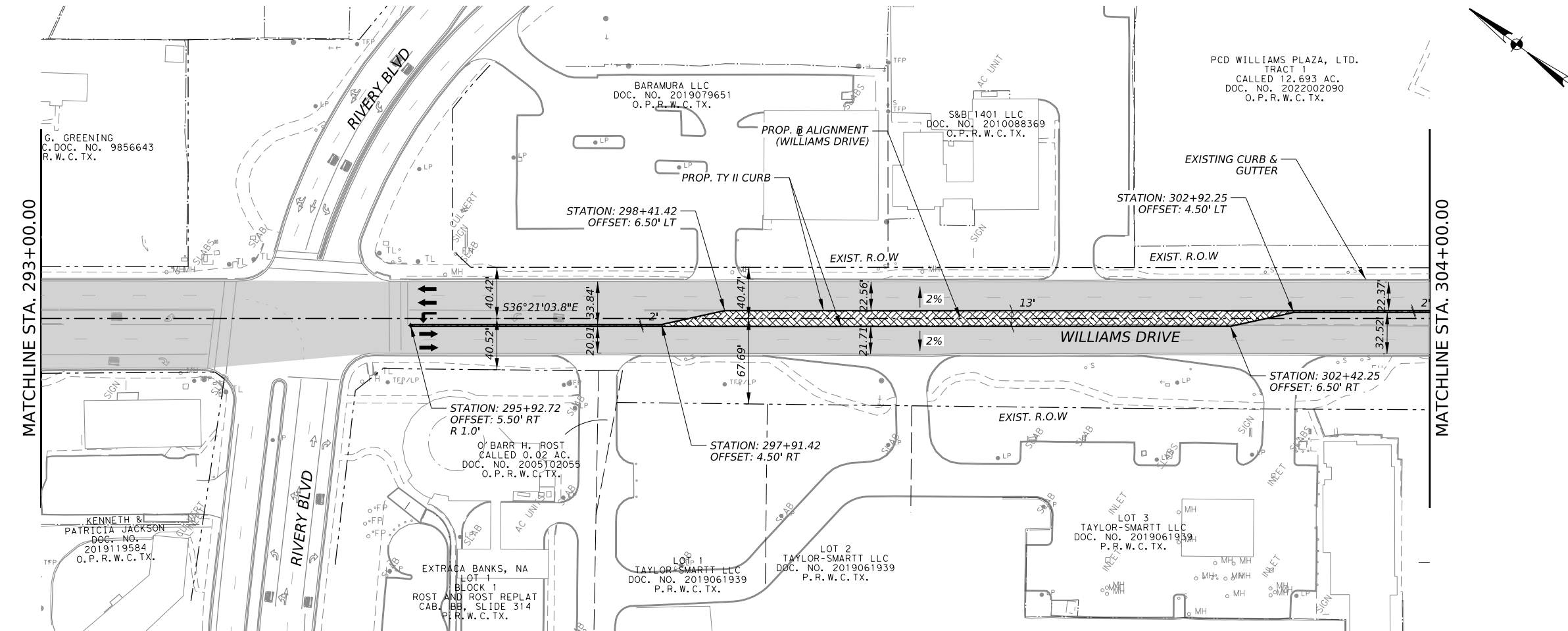
9/29/25

WILLIAMS DRIVE MOBILITY ENHANCEMENTS ROADWAY PLAN

STA. 271+00.00 - STA. 293+00.00

RPS Project No. 200-312337-24001		
CS# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 4 of 6	Sheet No. 51
Date 9/25/2025		

9/25/2025 7:37:44 PM *Projects\AUS-SP008261 City of Georgetown Williams Drive\07.00 CADD\Williams Drive\04-1111 Roadway Detail\05.dgn RPS(IT) - Mohera Maroo



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4801 Southwest Pkwy, Pkwy 1, Suite 185, Austin, Texas 78735
T+1 512 328 5771 E usinfrastructure@rpsgroup.com

LEGEND

- EXIST. R.O.W.
- PROP. R.O.W.
- PROP. EASEMENT
- PROPERTY LINE
- MILL & OVERLAY
- FULL DEPTH PAVEMENT
- CONCRETE MEDIAN
- STAMPED CONCRETE

NOTES:

- STATIONS, OFFSETS, AND RADII ARE MEASURED FROM FACE OF CURB OR LIP OF GUTTER UNLESS OTHERWISE NOTED.
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- MILL AND OVERLAY WILL FOLLOW EXISTING CROSS SLOPE.
- SEE MEDIAN ISLAND AND DRAINAGE CROSSING DETAILS FOR ADDITIONAL INFORMATION.

SCALE: 1" = 100'
0 50 100

REV	DESCRIPTION	BY	DATE

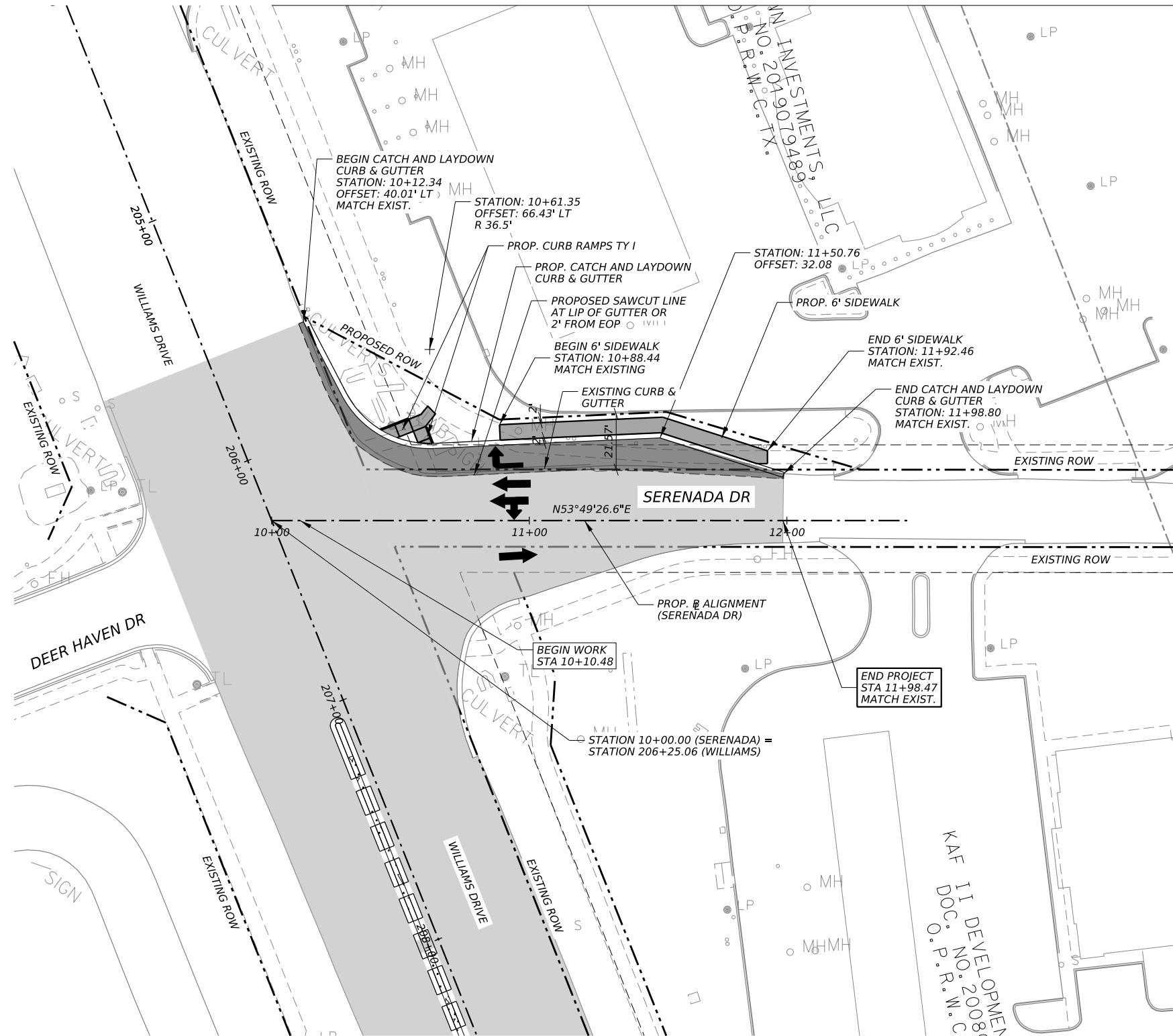


WILLIAMS DRIVE MOBILITY ENHANCEMENTS ROADWAY PLAN

STA. 293+00.00 - END

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 5 of 6	Sheet No. 52
Date 9/25/2025		

9/25/2025 7:37:54 PM
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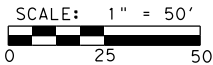
RPS Texas PE Firm Reg. #F-929
4801 Southwest Pkwy, Pkwy 1, Suite 185, Austin, Texas 78735
T +1 512 328 5771 E usinfrastructure@rpsgroup.com

LEGEND

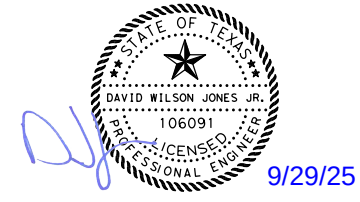
- EXIST. R.O.W.
- PROP. R.O.W.
- PROP. EASEMENT
- PROPERTY LINE
- MILL & OVERLAY
- FULL DEPTH PAVEMENT
- CONCRETE MEDIAN
- STAMPED CONCRETE

NOTES:

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- MILL AND OVERLAY WILL FOLLOW EXISTING CROSS SLOPE.
- SEE MEDIAN ISLAND AND DRAINAGE CROSSING DETAILS FOR AC



REV	DESCRIPTION	BY	DATE

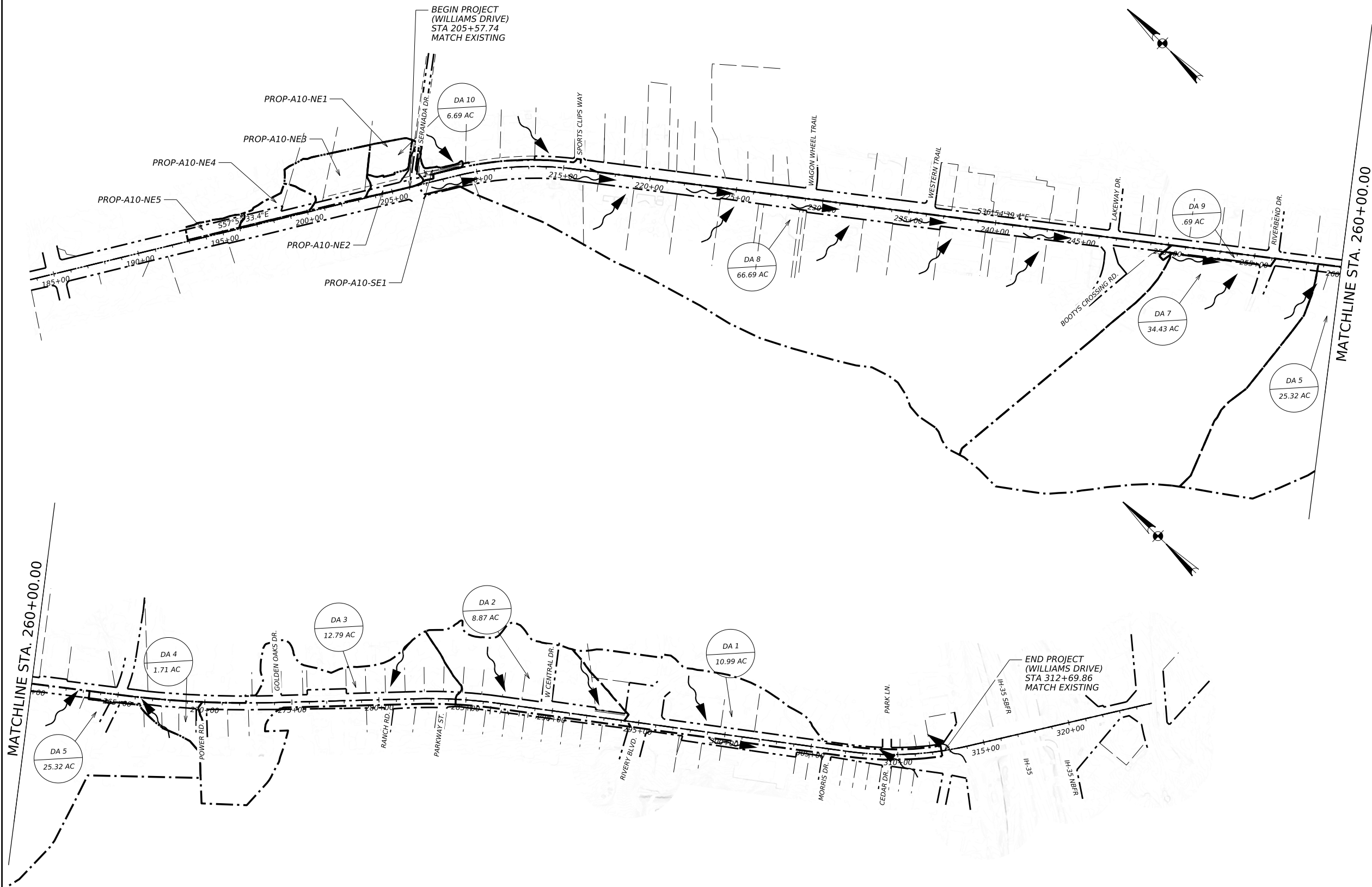


WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
ROADWAY PLAN

SERENADA DR

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 6 of 6	Sheet No. 53
Date 9/25/2025		

9/25/2025 5:51:29 PM
RPS(TT) - Mochera Maroa
*Projects AUS-SP\008261 City of Georgetown Williams Drive\07.00 CADD\Williams Drive\06-v Drainage Detail\008261\OVERALL DAM*PROP.dgn



LEGEND

- X DRAINAGE AREA I.D.
XX DRAINAGE AREA IN ACRES
- FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- EXISTING 1' CONTOUR
- EXIST. R.O.W.
- PROP. R.O.W.
- EXIST. PARCELS

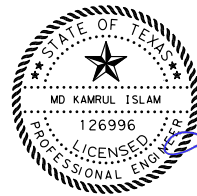
NOTES:

- CONTOURS SHOWN ARE EXISTING FROM THE YEAR 2023.
- REFER TO HYDRAULIC CALCULATION SHEET FOR MORE INFORMATION.
- THE OFFSITE DRAINAGE AREAS ARE DELINATED WITH A COMBINATION OF EXISTING CONTOURS, AS-BUILT CONSTRUCTION DRAWINGS AND FIELD OBSERVATIONS.

SCALE: 1" = 600'

0 300 600

REV	DESCRIPTION	BY	DATE

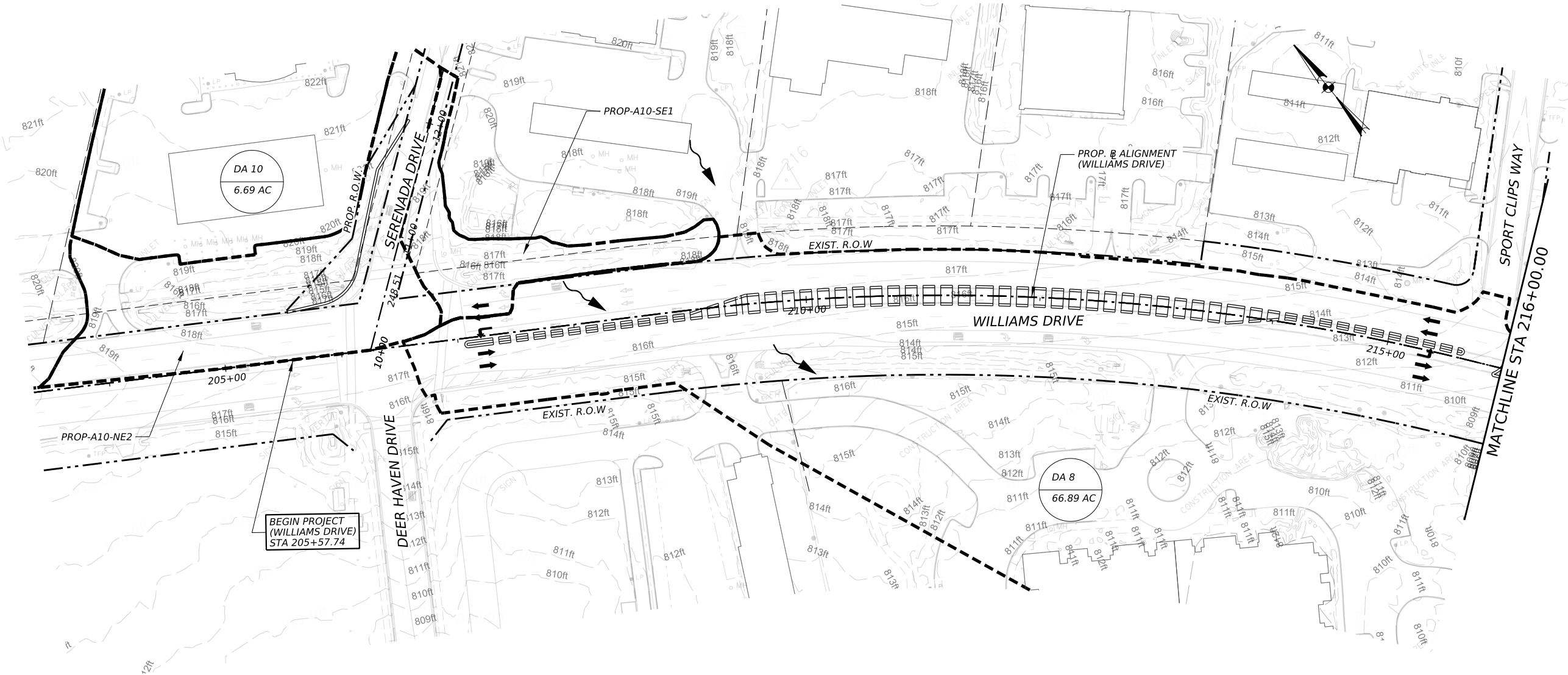


09/29/2025

WILLIAMS DRIVE MOBILITY ENHANCEMENTS PROPOSED OVERALL DRAINAGE AREA MAP

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 1 of 10	Sheet No. 62
Date 9/25/2025		

9/25/2025 5:48:43 PM
RPS\IT\ - Mochera Maroo
Projects AUS-SP\008261 City of Georgetown Williams Drive\07.00 CADD\Williams Drive\06-v Drainage Detail\008261\06\01.dgn



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4801 Southwest Pkwy, Pkwy 1, Suite 185, Austin, Texas 78735
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LEGEND

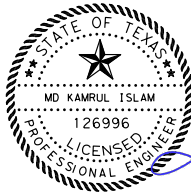
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- XX DRAINAGE AREA IN ACRES
- FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- EXISTING 1' CONTOUR
- EXIST. R.O.W.
- PROP. R.O.W.
- EXIST. PARCELS

NOTES:

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- REFER TO HYDRAULIC CALCULATION SHEET FOR MORE INFORMATION.
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SCALE: 1" = 100'
0 50 100

REV	DESCRIPTION	BY	DATE



WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
INTERNAL DRAINAGE
AREA MAP
BEGIN TO STA 216+00

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 1 of 10	Sheet No. 63
Date 9/25/2025		

 DRAINAGE AREA I.D.
 DRAINAGE AREA IN ACRES

----- DRAINAGE AREA
BOUNDARY

----- EXISTING
1' CONTOUR

— - — - — - EXIST. R.O.W.

--- PROP. R.O.W.

— — — — — EXIST. PARCELS

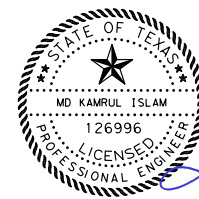
1. CONTOURS SHOWN ARE EXISTING FROM THE YEAR 2023.
2. REFER TO HYDRAULIC CALCULATION SHEET FOR MORE INFORMATION.
3. THE OFFSITE DRAINAGE AREAS ARE DELINEATED WITH A COMBINATION OF EXISTING CONTOURS, AS-BUILT CONSTRUCTION DRAWINGS AND FIELD OBSERVATIONS.

SCALE: 1" = 100'



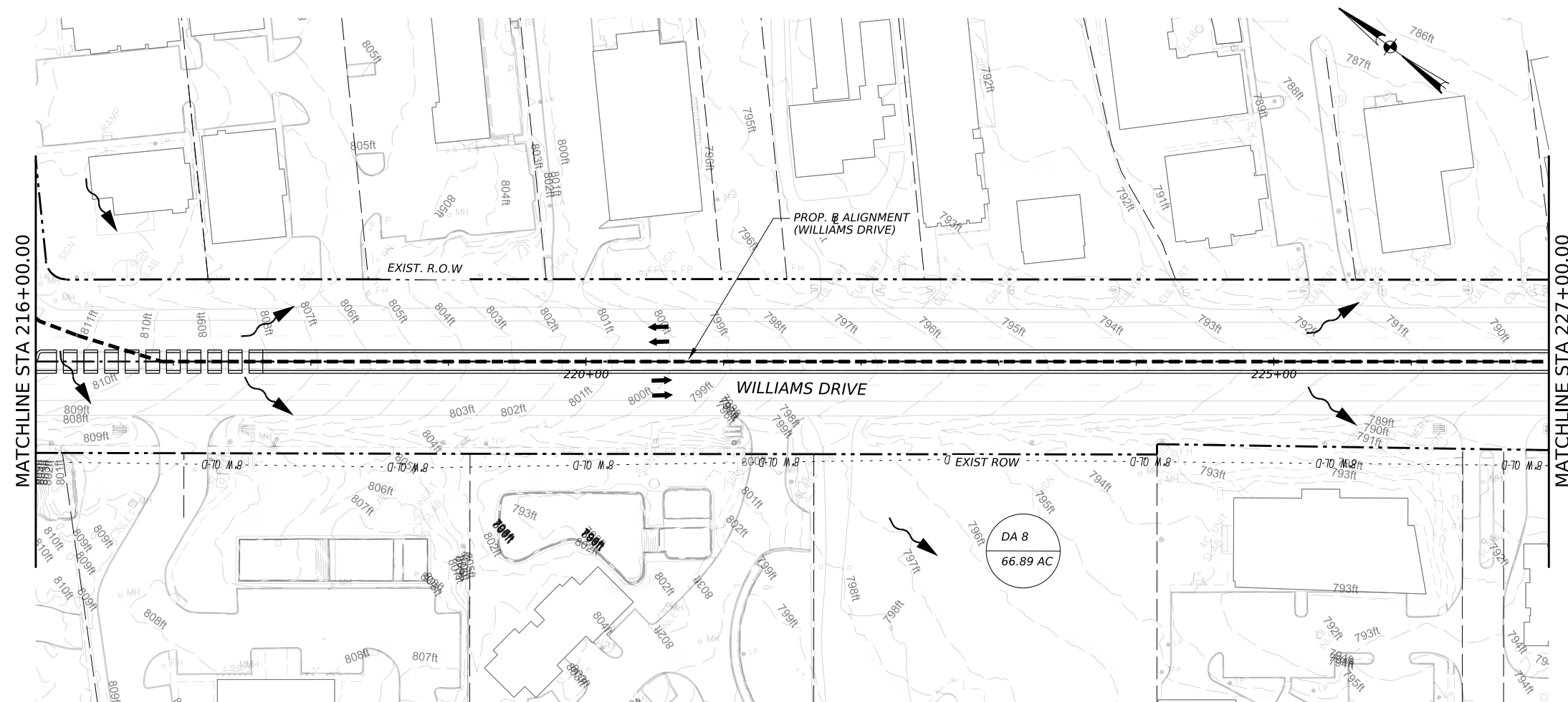
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REV	DESCRIPTION	BY	DATE

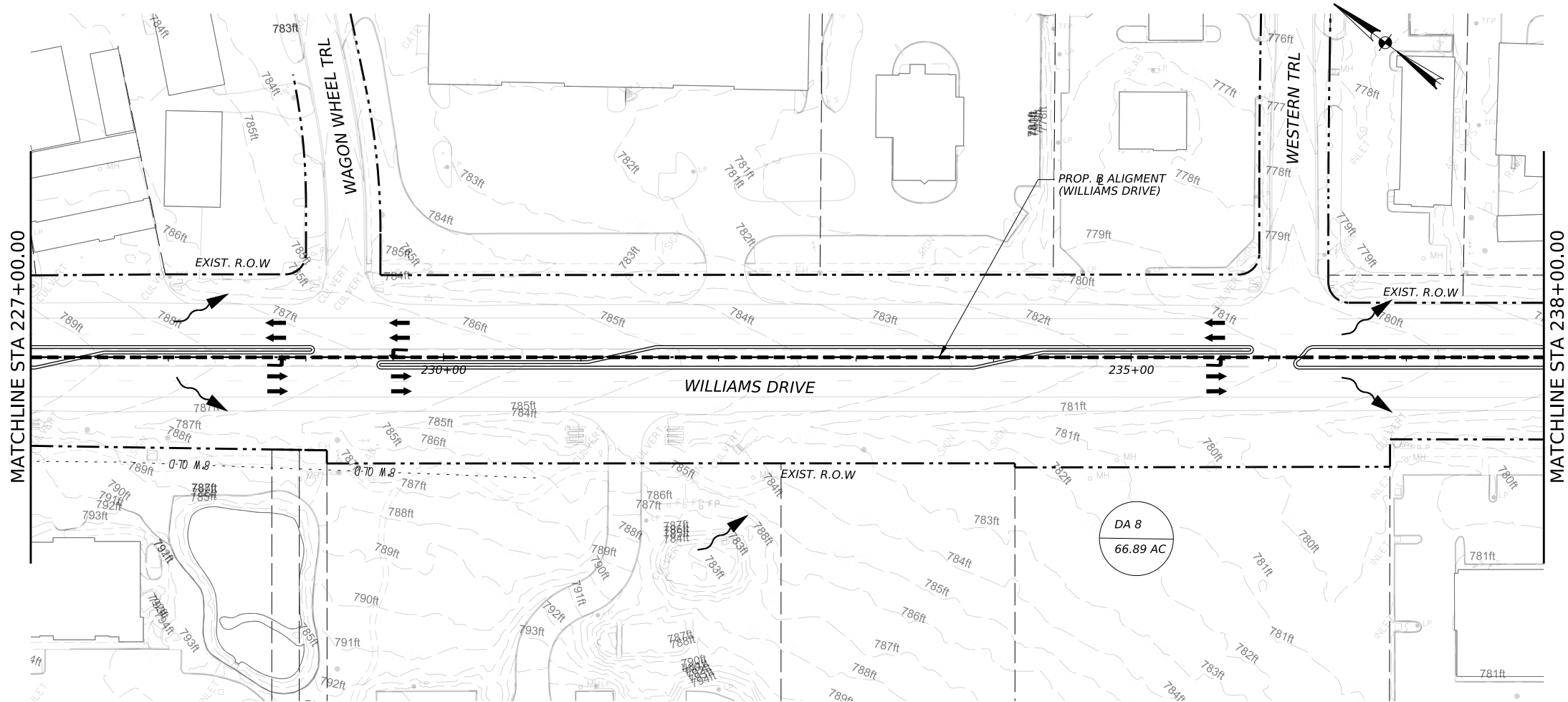


WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
INTERNAL DRAINAGE
AREA MAP
STA 216+00 TO STA 227+00

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By	CCS/PRM	Checked By KJH
Scale:	AS SHOWN	Sheet 2 of 10
Date	9/25/2025	Sheet No. 64



9/25/2025 5:49:09 PM
RPS(TT) - Moheera Maroo
Projects AUS-SP\008261 City of Georgetown Williams Drive\07.00 CADD\Williams Drive\06-v Drainage Detail\008261\06\03.dgn



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4801 Southwest Pkwy, Pkwy 1, Suite 185, Austin, Texas 78735
T+1 512 328 5771 E usinfrastucture@rpsgroup.com

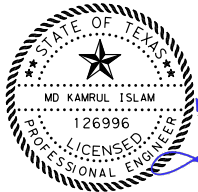
LEGEND

- X DRAINAGE AREA I.D.
- XX DRAINAGE AREA IN ACRES
- FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- EXISTING 1' CONTOUR
- EXIST. R.O.W.
- PROP. R.O.W.
- EXIST. PARCELS

- NOTES:
- CONTOURS SHOWN ARE EXISTING FROM THE YEAR 2023.
 - REFER TO HYDRAULIC CALCULATION SHEET FOR MORE INFORMATION.
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SCALE: 1" = 100'
0 50 100

REV	DESCRIPTION	BY	DATE

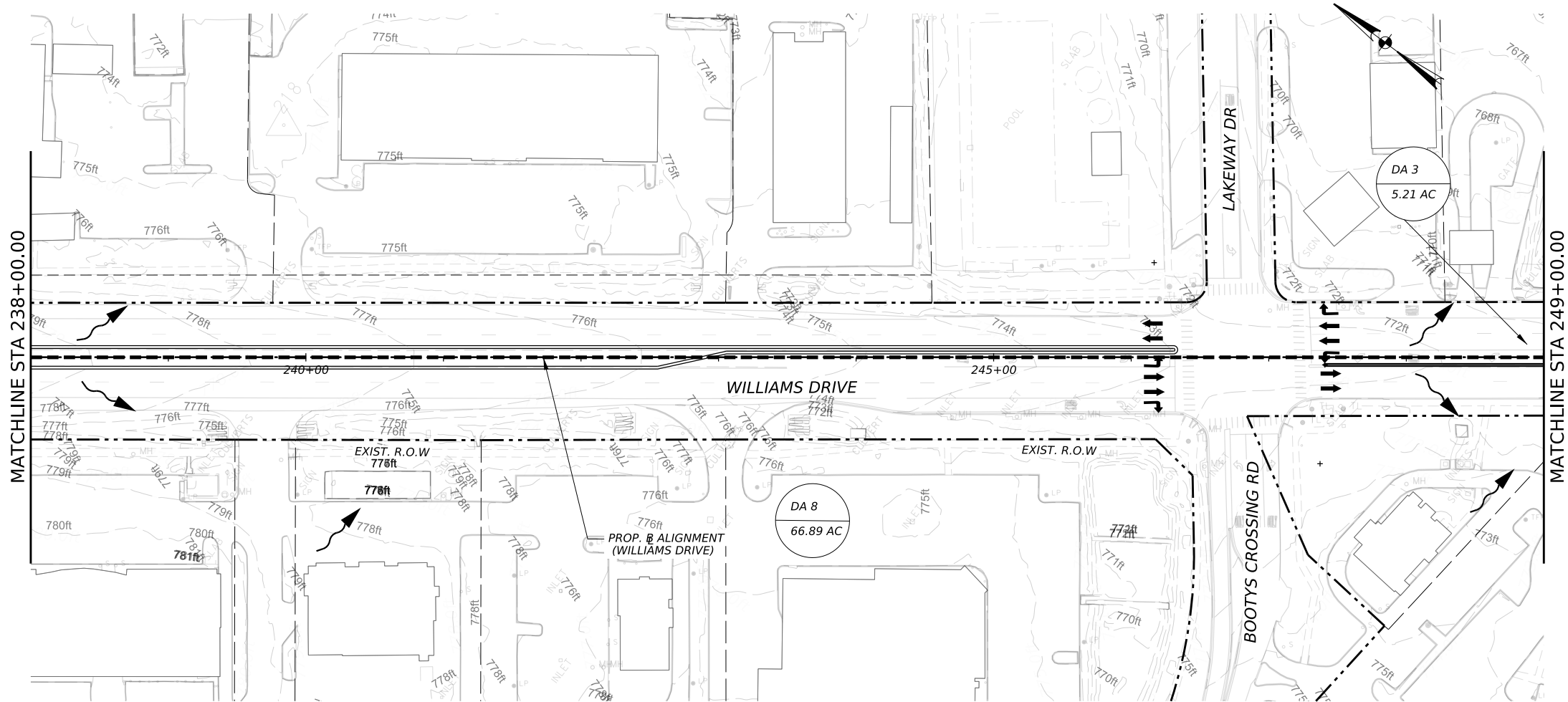


09/29/2025

WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
INTERNAL DRAINAGE
AREA MAP
STA 227+00 TO STA 238+00

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By K.J.H.	
Scale: AS SHOWN	Sheet 3 of 10	Sheet No. 65
Date 9/25/2025		

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RPS\IT - Mohega Maroo
Projects AUS-SP\008261 City of Georgetown Williams Drive\07.00 CADD\Williams Drive\06-v Drainage Detail\008261\04\04.dgn



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4801 Southwest Pkwy, Pkwy 1, Suite 185, Austin, Texas 78735
T +1 512 328 5771 E usinfrastructure@rpsgroup.com

LEGEND

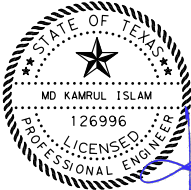
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XX DRAINAGE AREA IN ACRES
- FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- EXISTING 1' CONTOUR
- EXIST. R.O.W.
- PROP. R.O.W.
- EXIST. PARCELS

NOTES:

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SCALE: 1" = 100'
0 50 100

REV	DESCRIPTION	BY	DATE

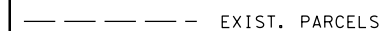
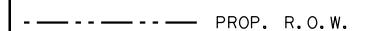
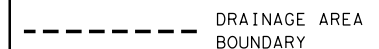
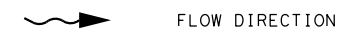


09/29/2025

WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
INTERNAL DRAINAGE
AREA MAP
STA 238+00 TO STA 249+00

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 4 of 10	Sheet No. 66
Date 9/25/2025		

LEGEND



NOTES:

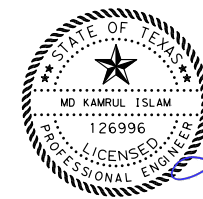
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2. REFER TO HYDRAULIC CALCULATION SHEET FOR MORE INFORMATION.
3. THE OFFSITE DRAINAGE AREAS ARE DELINEATED WITH A COMBINATION OF EXISTING CONTOURS, AS-BUILT CONSTRUCTION DRAWINGS AND FIELD OBSERVATIONS.

SCALE: 1" = 100'



A horizontal scale bar with alternating black and white segments. Below the bar, the numbers 0, 50, and 100 are marked, indicating distances in feet.

REV	DESCRIPTION	BY	DATE



09/29/202

WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
INTERNAL DRAINAGE
AREA MAP
STA 249+00 TO STA 260+00

RPS Project No. 200-312337-24001

CSJ# 0914-05-202

client I.D. CITY OF GEORGETOWN

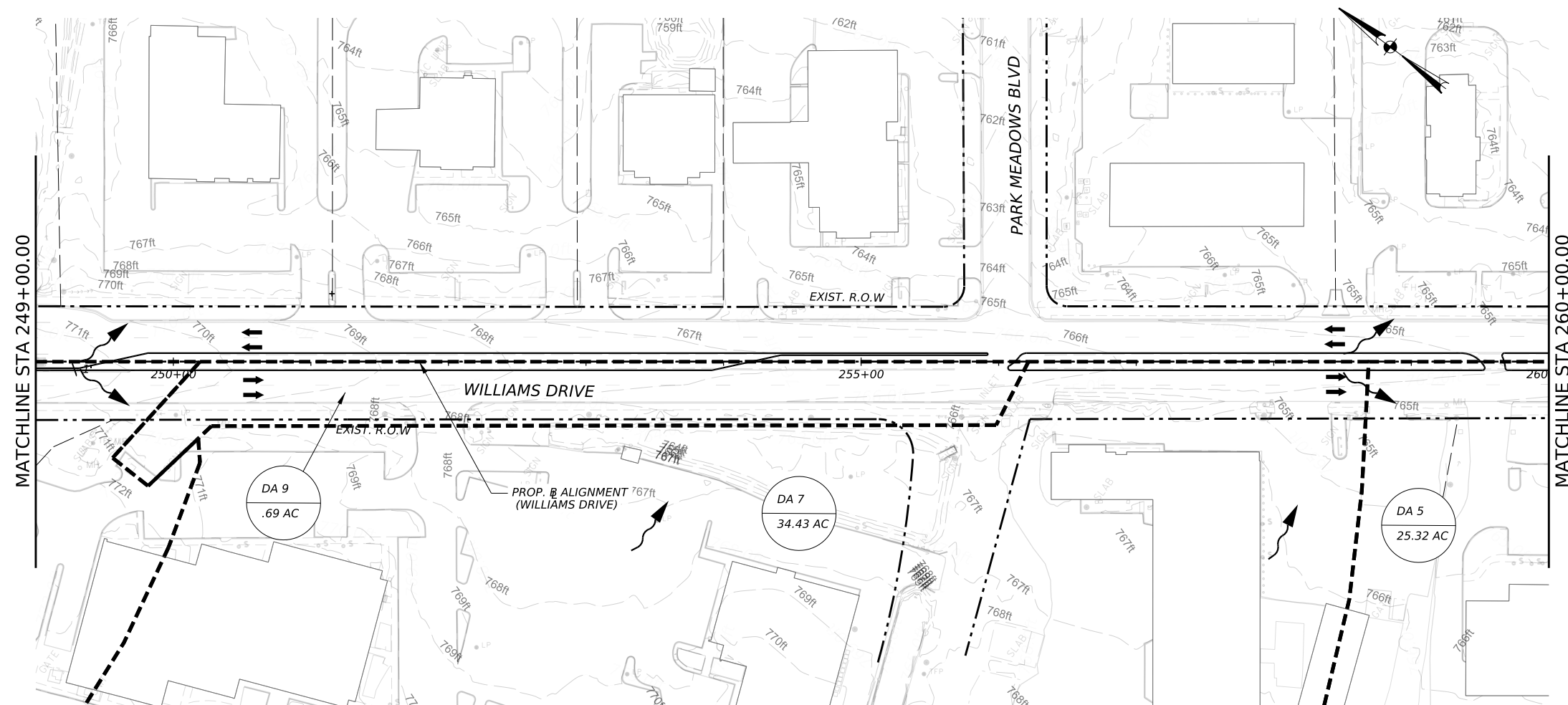
Drawn By CCS/PRM

Checked By	K JH
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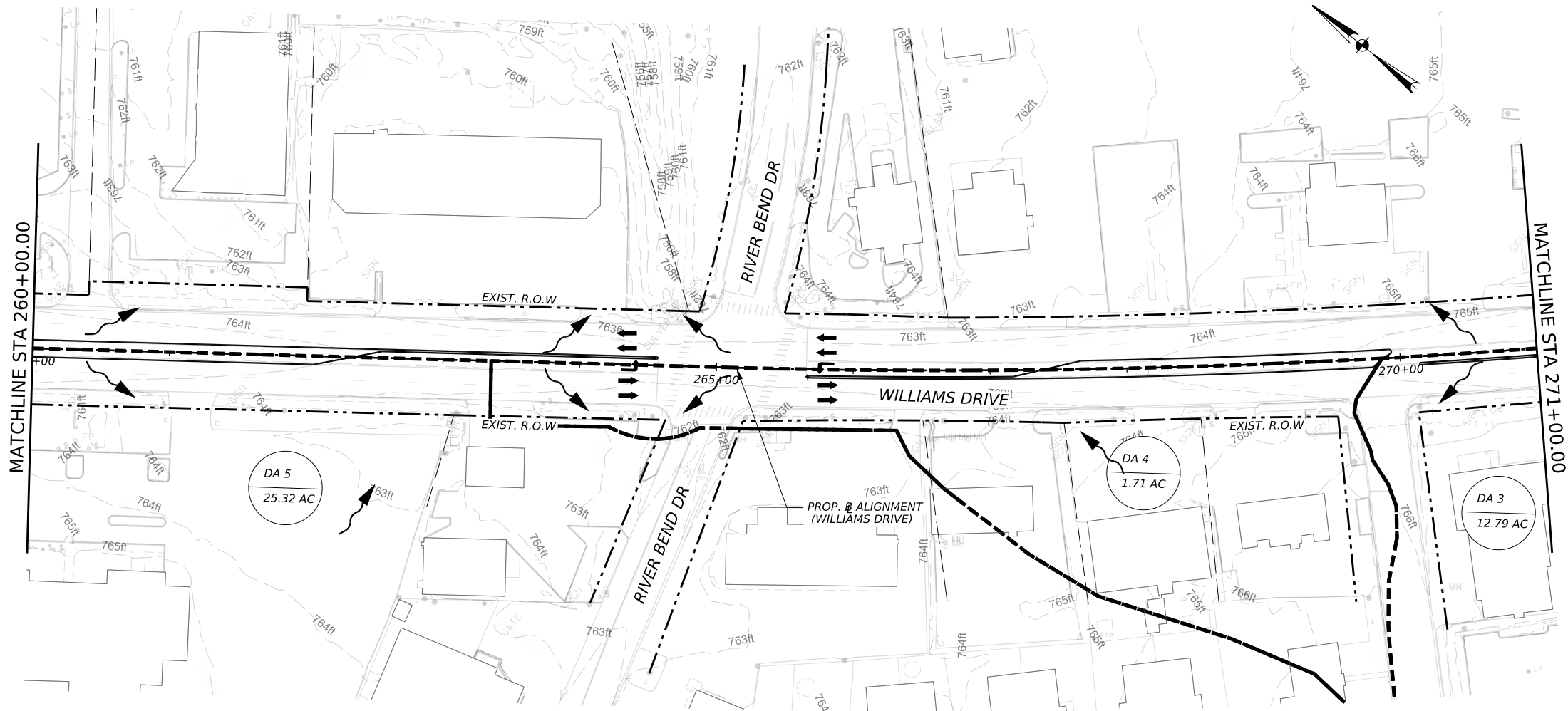
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Sheet No.



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RPS\IT\ - Mohera Maroo
Projects AUS-SP\008261 City of Georgetown Williams Drive\07.00 CADD\Williams Drive\06-v Drainage Detail\008261\06\06.dgn



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4801 Southwest Pkwy, Pkwy 1, Suite 185, Austin, Texas 78735
T +1 512 328 5771 E usinfrastructure@rpsgroup.com

LEGEND

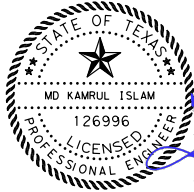
- X DRAINAGE AREA I.D.
- XX DRAINAGE AREA IN ACRES
- FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- EXISTING 1' CONTOUR
- EXIST. R.O.W.
- PROP. R.O.W.
- EXIST. PARCELS

NOTES:

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- 2. REFER TO HYDRAULIC CALCULATION SHEET FOR MORE INFORMATION.
- 3. THE OFFSITE DRAINAGE AREAS ARE DELINATED WITH A COMBINATION OF EXISTING CONTOURS, AS-BUILT CONSTRUCTION DRAWINGS AND FIELD OBSERVATIONS.

SCALE: 1" = 100'
0 50 100

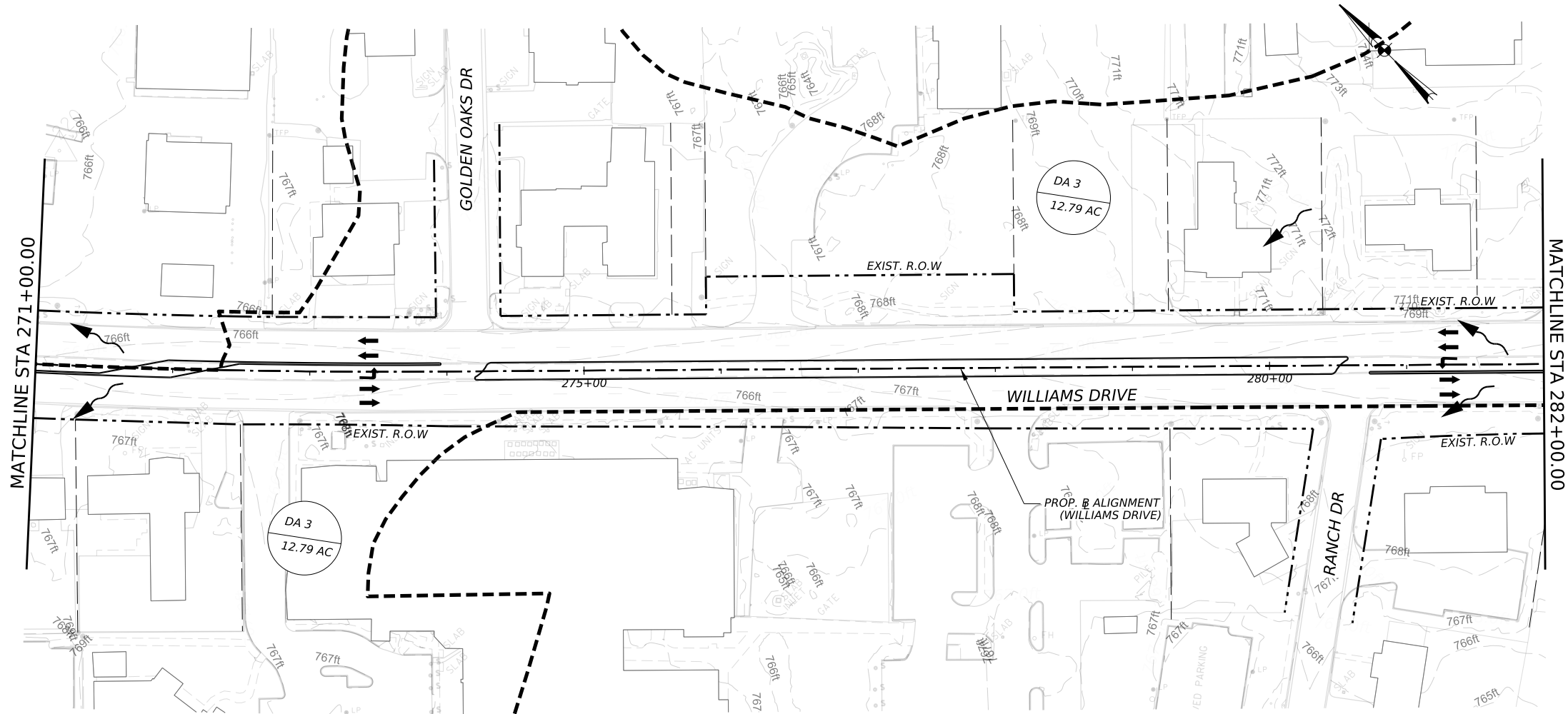
REV	DESCRIPTION	BY	DATE



WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
INTERNAL DRAINAGE
AREA MAP
STA 260+00 TO STA 271+00

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 6 of 10	Sheet No. 68
Date 9/25/2025		

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RPS\IT\ - Mohega Maroo
Projects\AUS-SP\008261 City of Georgetown Williams Drive\07.00 CADD\Williams Drive\06-v Drainage Detail\008261\07.dgn



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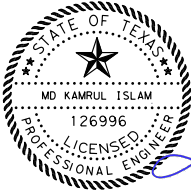
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- X DRAINAGE AREA I.D.
- XX DRAINAGE AREA IN ACRES
- FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- EXISTING 1' CONTOUR
- EXIST. R.O.W.
- PROP. R.O.W.
- EXIST. PARCELS

- NOTES:
- CONTOURS SHOWN ARE EXISTING FROM THE YEAR 2023.
 - REFER TO HYDRAULIC CALCULATION SHEET FOR MORE INFORMATION.
 - THE OFFSITE DRAINAGE AREAS ARE DELINATED WITH A COMBINATION OF EXISTING CONTOURS, AS-BUILT CONSTRUCTION DRAWINGS AND FIELD OBSERVATIONS.

SCALE: 1" = 100'
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REV	DESCRIPTION	BY	DATE

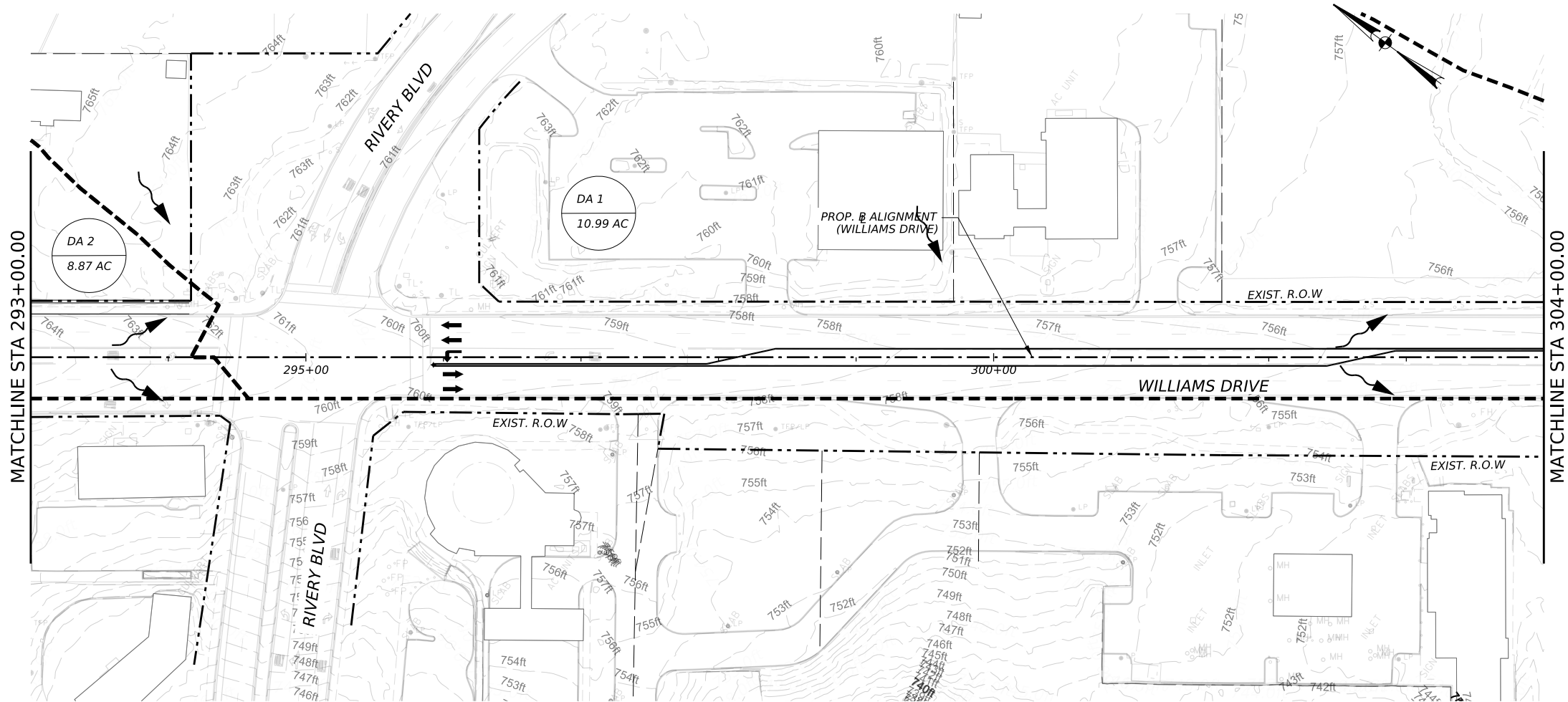


09/29/2025

WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
INTERNAL DRAINAGE
AREA MAP
STA 271+00 TO STA 282+00

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By K.JH	
Scale: AS SHOWN	Sheet 7 of 10	Sheet No. 69
Date 9/25/2025		

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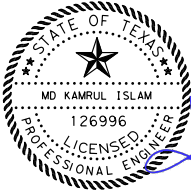
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- X DRAINAGE AREA I.D.
- XX DRAINAGE AREA IN ACRES
- FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- EXISTING 1' CONTOUR
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- PROP. R.O.W.
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SCALE: 1" = 100'
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REV	DESCRIPTION	BY	DATE

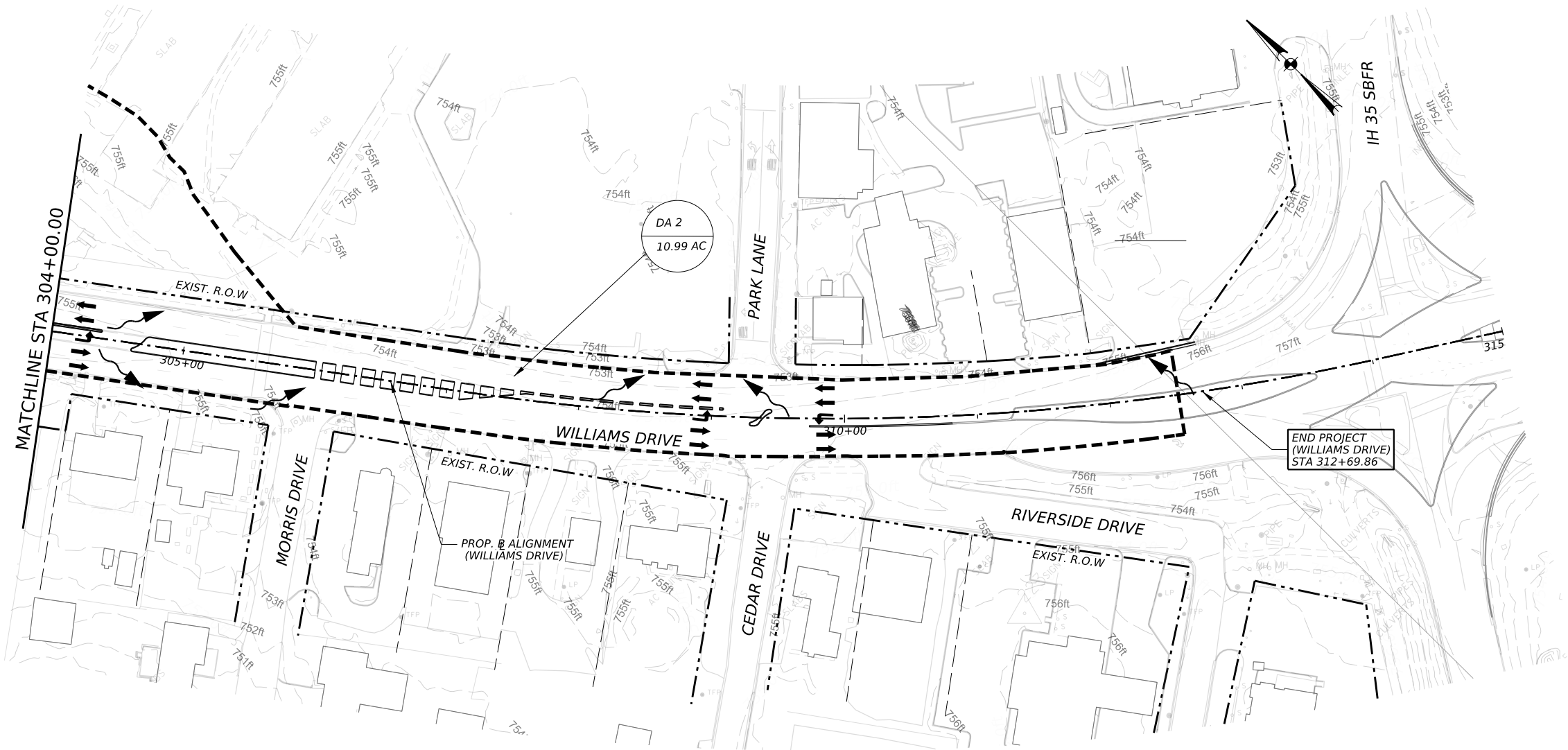


09/29/2025

WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
INTERNAL DRAINAGE
AREA MAP
STA 293+00 TO STA 304+00

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By K.JH	
Scale: AS SHOWN	Sheet 9 of 10	Sheet No. 71
Date 9/25/2025		

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City of Georgetown Williams Drive\07.00 CADD\Williams Drive\06-v Drainage Detail\08261\06-v\08261.dgn



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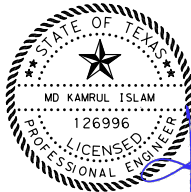
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- DRAINAGE AREA I.D.
- DRAINAGE AREA IN ACRES
- FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- EXISTING 1' CONTOUR
- EXIST. R.O.W.
- PROP. R.O.W.
- EXIST. PARCELS

- NOTES:
- CONTOURS SHOWN ARE EXISTING FROM THE YEAR 2023.
 - REFER TO HYDRAULIC CALCULATION SHEET FOR MORE INFORMATION.
 - THE OFFSITE DRAINAGE AREAS ARE DELINATED WITH A COMBINATION OF EXISTING CONTOURS, AS-BUILT CONSTRUCTION DRAWINGS AND FIELD OBSERVATIONS.

SCALE: 1" = 100'
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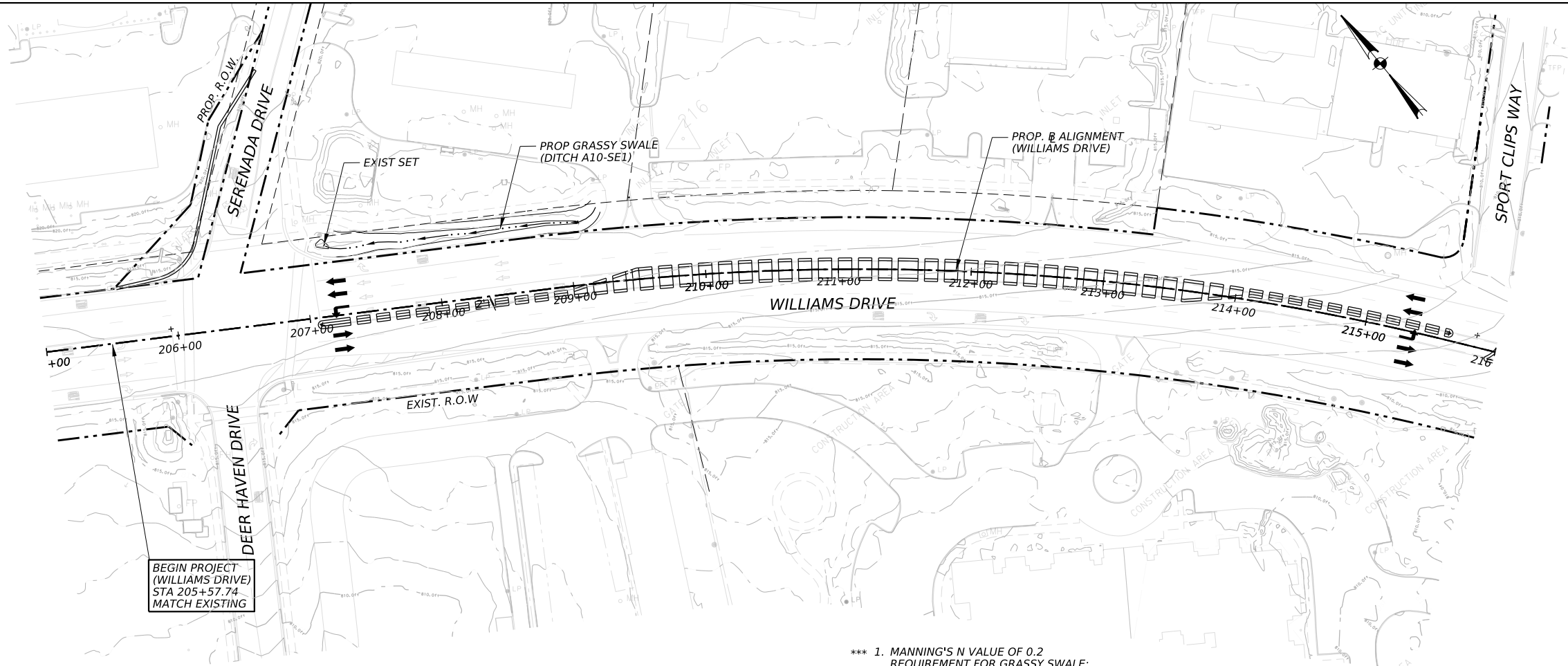
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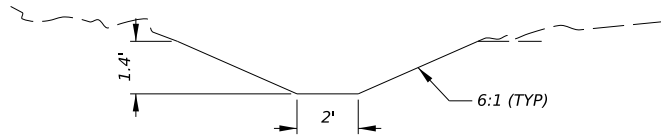
WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
INTERNAL DRAINAGE
AREA MAP
STA 304+00 TO END

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 10 of 10	Sheet No. 72
Date 9/25/2025		

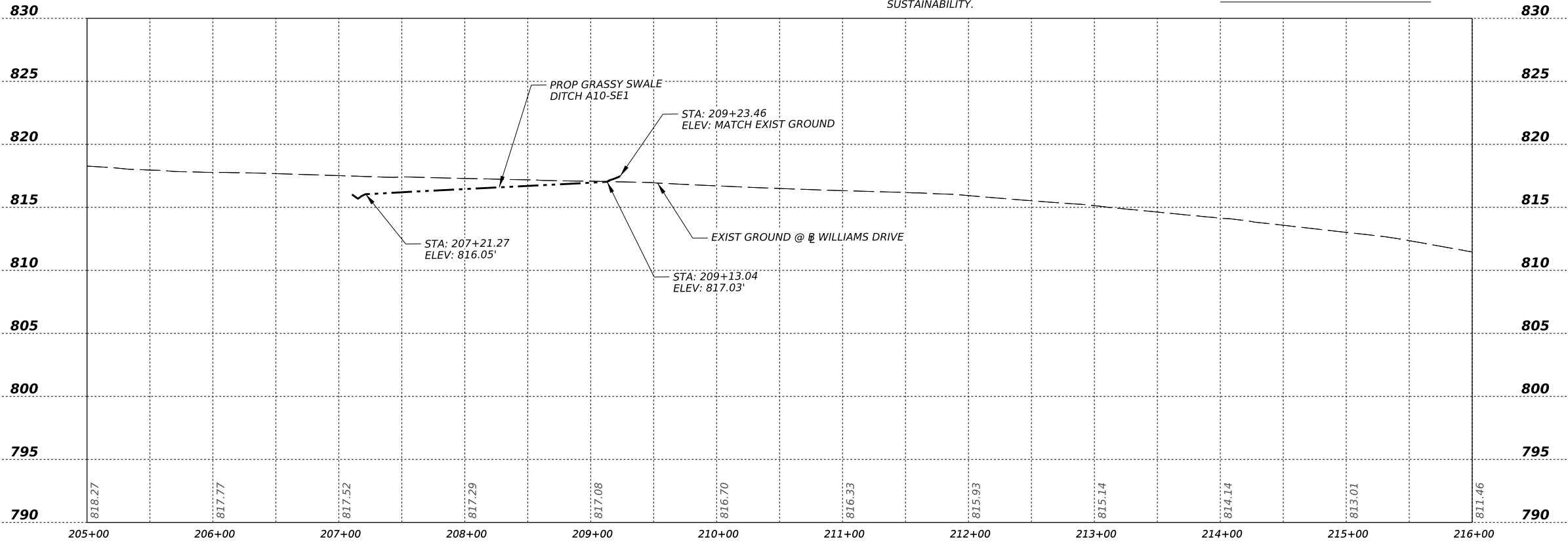
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- *** 1. MANNING'S N VALUE OF 0.2
REQUIREMENT FOR GRASSY SWALE:
INSTALL VEGETATION TO ACHIEVE
50-90% VEGETATED GROUND COVER,
WITH THE REMAINING AREA
CONSISTING OF BARE SOIL OR ROCK
OUTCROPS AND MINIMUM TO MEDIUM
BRUSH OR TREE COVER AS
APPROPRIATE.
2. GRASSY SWALE SPECIES SELECTION:
UTILIZE NATIVE PLANT SPECIES
RECOMMENDED BY THE CITY OF
GEORGETOWN DRAINAGE CRITERIA
MANUAL TO ENSURE COMPLIANCE AND
SUSTAINABILITY.



***PROPOSED SWALE TYPICAL SECTION



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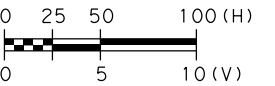
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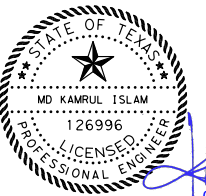
- EXIST. R.O.W.
--- PROP. R.O.W.
[Symbol] EXIST. CURB INLET
[Symbol] TRAFFIC FLOW

NOTES:

- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITIES BEFORE BEGINNING ANY TYPE OF WORK.
- HYDRAULIC CALCULATIONS CAN BE FOUND IN STORM SEWER CALCULATION SHEET.
- ALL EXISTING DRAINAGE STRUCTURES INCLUDING DITCHES, PIPES, SET, SLOTTED DRAIN, ETC., WILL REMAIN IN PLACE EXCEPT WHERE THERE ARE PROPOSED ONES.



REV	DESCRIPTION	BY	DATE



09/29/2025

WILLIAMS DRIVE MOBILITY ENHANCEMENTS DRAINAGE PLAN AND PROFILE BEGIN TO STA 216+00

RPS Project No. 200-312337-24001

CSJ# 0914-05-202

Client I.D. CITY OF GEORGETOWN

Drawn By CCS/PRM

Checked By KJH

Scale: AS SHOWN

Sheet

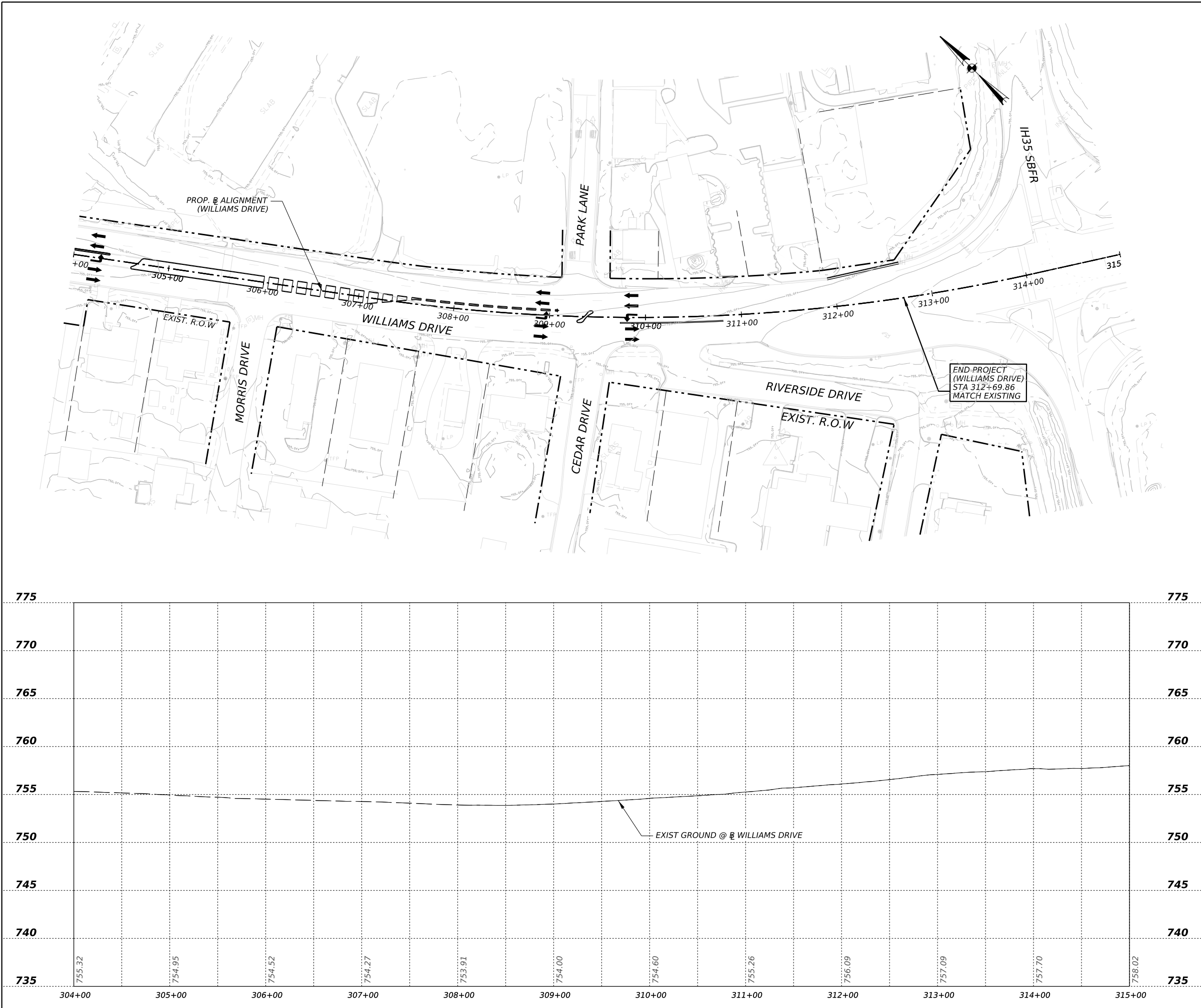
Sheet No.

Date 9/25/2025

1 of 2

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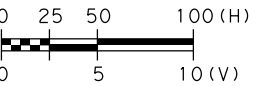
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LEGEND

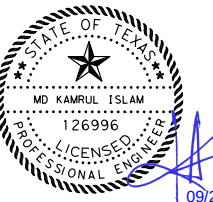
- EXIST. R.O.W.
- PROP. R.O.W.
- EXIST. CURB INLET
- TRAFFIC FLOW

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- ALL EXISTING DRAINAGE STRUCTURES INCLUDING DITCHES, PIPES, SET, SLOTTED DRAIN, ETC., WILL REMAIN IN PLACE EXCEPT WHERE THERE ARE PROPOSED ONES.



REV	DESCRIPTION	BY	DATE



09/29/2025

WILLIAMS DRIVE MOBILITY ENHANCEMENTS DRAINAGE PLAN AND PROFILE STA 304+00 TO END

RPS Project No. 200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 2 of 2	Sheet No. 74
Date 9/25/2025		

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RUNOFF COEFFICIENT SUMMARY									
DRAINAGE AREA ID	AREA	Asphalt	Concrete	Grass	Pasture/range	WEIGHTED COEFFICIENT 2 YR	WEIGHTED COEFFICIENT 10 YR	WEIGHTED COEFFICIENT 25 YR	WEIGHTED COEFFICIENT 100 YR
	AC	AC	AC	AC	AC	C	C	C	C
EXIST-A10-NE1	1.03	0.00	0.97	0.06	0.00	0.93	0.93	0.93	0.94
EXIST-A10-NE2	0.85	0.40	0.15	0.30	0.00	0.73	0.75	0.76	0.79
EXIST-A10-NE3	2.75	0.26	0.28	2.22	0.00	0.44	0.48	0.51	0.57
EXIST-A10-NE4	1.17	0.32	0.07	0.78	0.00	0.53	0.56	0.58	0.63
EXIST-A10-NE5	0.58	0.23	0.05	0.30	0.00	0.62	0.65	0.67	0.70
EXIST-A10-SE1	0.31	0.10	0.05	0.16	0.00	0.64	0.66	0.68	0.71
PROP-A10-NE1	1.03	0.00	0.97	0.06	0.00	0.93	0.93	0.93	0.94
PROP-A10-NE2	0.85	0.44	0.17	0.24	0.00	0.78	0.79	0.80	0.82
PROP-A10-NE3	2.75	0.26	0.28	2.22	0.00	0.44	0.48	0.51	0.57
PROP-A10-NE4	1.17	0.32	0.07	0.78	0.00	0.53	0.56	0.58	0.63
PROP-A10-NE5	0.58	0.23	0.05	0.30	0.00	0.62	0.65	0.67	0.70
PROP-A10-SE1	0.31	0.10	0.05	0.16	0.00	0.64	0.66	0.68	0.71

INTENSITY					
DRAINAGE AREA ID	Tc	2-year	10-year	25-year	100-year
		I	I	I	I
	MIN	IN/HR	IN/HR	IN/HR	IN/HR
EXIST-A10-NE1	5.00	6.48	8.64	9.84	11.88
EXIST-A10-NE2	5.00	6.48	8.64	9.84	11.88
EXIST-A10-NE3	15.18	4.58	6.30	7.33	8.97
EXIST-A10-NE4	5.00	6.48	8.64	9.84	11.88
EXIST-A10-NE5	13.27	4.84	6.63	7.69	9.39
EXIST-A10-SE1	13.92	4.75	6.51	7.56	9.24
PROP-A10-NE1	5.00	6.48	8.64	9.84	11.88
PROP-A10-NE2	5.00	6.48	8.64	9.84	11.88
PROP-A10-NE3	15.18	4.58	6.30	7.33	8.97
PROP-A10-NE4	5.00	6.48	8.64	9.84	11.88
PROP-A10-NE5	13.27	4.84	6.63	7.69	9.39
PROP-A10-SE1	16.18	4.45	6.14	7.16	8.77

TABLE 3-1 RUNOFF COEFFICIENTS FOR THE RATIONAL METHOD - COG DRAINAGE CRITERIA MANUAL					
Coefficient	2 YR	10 YR	25YR	100 YR	
Asphalt	0.95	0.95	0.95	0.95	
Concrete/Roof	0.97	0.97	0.97	0.97	
Grass, 0-50% cover, 0-2% slopes	0.32	0.37	0.4	0.47	
Pasture/Range, 0-2% slopes	0.28	0.32	0.35	0.41	

TABLE 3-1 RUNOFF COEFFICIENTS FOR THE RATIONAL METHOD - COG DRAINAGE CRITERIA MANUAL					
Coefficient	2	10	25	100	
Asphalt	0.95	0.95	0.95	0.95	
Concrete/Roof	0.97	0.97	0.97	0.97	
Grass, 0-50% cover, 0-2% slopes	0.32	0.37	0.4	0.47	
Grass, 0-50% cover, 2-7% slopes	0.36	0.41	0.45	0.53	
Grass, 0-50% cover, 7+% slopes	0.37	0.43	0.47	0.55	
Grass, 50-75% cover, 0-2% slopes	0.28	0.32	0.35	0.41	
Grass, 50-75% cover, 2-7% slopes	0.33	0.38	0.42	0.49	
Grass, 50-75% cover, 7+% slopes	0.36	0.41	0.45	0.53	
Grass, 75%+ cover, 0-2% slopes	0.24	0.28	0.31	0.36	
Grass, 75%+ cover, 2-7% slopes	0.31	0.36	0.39	0.46	
Grass, 75%+ cover, 7+% slopes	0.34	0.4	0.44	0.51	
Cultivated Land, 0-2% slopes	0.32	0.37	0.4	0.47	
Cultivated Land, 2-7% slopes	0.34	0.4	0.44	0.51	
Cultivated Land, 7+% slopes	0.36	0.42	0.46	0.54	
Pasture/Range, 0-2% slopes	0.28	0.32	0.35	0.41	
Pasture/Range, 2-7% slopes	0.33	0.38	0.42	0.49	
Pasture/Range, 7+% slopes	0.36	0.41	0.45	0.53	
Forest/Woodlands, 0-2% slopes	0.26	0.3	0.33	0.39	
Forest/Woodlands, 2-7% slopes	0.32	0.37	0.4	0.47	
Forest/Woodlands, 7+% slopes	0.35	0.41	0.45	0.52	

CITY OF GEORGETOWN IDF CURVE COEFFICIENTS			
Year	a	b	c
2-year	106.29	16.81	0.9076
10-year	96.84	15.88	0.7952
25-year	111.07	17.23	0.7815
100-year	129.03	17.83	0.7625

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: 008289 COG - Williams Dr
Date Prepared: 9/24/2025

Additional Information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_{wT} = 27.2(A_{ti} \times P)$

where: L_{wT} TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
 A_{ti} = Net increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project
County = Williamson
Total project area included in plan = 27.15 acres
Predevelopment impervious area within the limits of the plan = 20.04
Total post-development impervious area within the limits of the plan = 20.09
Total post-development impervious cover fraction = 0.74
 P = 32 inches

L_{wT} TOTAL PROJECT = 40 lbs

The values entered in these fields should be for the total project area.

Number of drainage basins / outfalls areas leaving the plan area = 10

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. = PROP-A10-SE1

Total drainage basin/outfall area = 0.31 acres
Predevelopment impervious area within drainage basin/outfall area = 0.15 acres
Post-development impervious area within drainage basin/outfall area = 0.16 acres
Post-development impervious fraction within drainage basin/outfall area = 0.60
 L_{wT} THIS BASIN = 0 lbs

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Grassy Swale
Removal efficiency = 70 percent

Aquatic Cartridge Filter
Bioretention
Context Storm Filter
Constructed Wetland
Extended Detention
Grassy Swale
Retention / Infiltration
Sand Filter
Stormceptor
Vegetated Filter Strips
Vortexes
Wet Basin
Wet Vault

4. Calculate Maximum TSS Load Removed (L_{wR}) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: $L_{wR} = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

where: A_i = Total On-Site drainage area in the BMP catchment area
 A_p = Impervious area proposed in the BMP catchment area
 A_{wR} = Previous area remaining in the BMP catchment area
 L_{wR} = TSS Load removed from this catchment area by the proposed BMP

A_i = 0.31 acres
 A_p = 0.14 acres
 A_{wR} = 0.17 acres
 L_{wR} = 109 lbs

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired L_{wT} THIS BASIN = 40 lbs
 F = 0.37

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.

Calculations from RG-348

Pages 3-34 to 3-36

Rainfall Depth = 0.25 inches
Post Development Runoff Coefficient = 0.33
On-site Water Quality Volume = 92 cubic feet

Calculations from RG-348

Pages 3-36 to 3-37

Off-site area draining to BMP = 0.00 acres
Off-site impervious cover draining to BMP = 0.00 acres
Impervious fraction of off-site area = 0
Off-site Runoff Coefficient = 0.00
Off-site Water Quality Volume = 0 cubic feet

Storage for Sediment = 18 cubic feet

Total Capture Volume (required water quality volume(s) x 1.20) = 111 cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP. The values for BMP Types not selected in cell C45 will show NA.

THE SIGNING REQUIREMENTS FOR THE FOLLOWING BMPs LOAD REMOVALS ARE BASED UPON FLOW RATES - NOT CALCULATED WATER QUALITY VOLUMES

15. Grassy Swales

Designed as Required in RG-348

Pages 3-51 to 3-54

Design parameters for the swale:

Drainage Area to be Treated by the Swale = A_s = 0.31 acres
Impervious Cover in Drainage Area = 0.14 acres
Rainfall intensity = i = 1.1 in/hr
Swale Slope = 0.005 ft/ft
Side Slope (z) = 2
Design Water Depth = y = 0.33 ft
Weighted Runoff Coefficient = C = 0.51

A_{CS} = cross-sectional area of flow in Swale = 0.69 sf
 P_w = Wetted Perimeter = 4.13 feet
 R_h = hydraulic radius of flow cross-section = A_{CS}/P_w = 0.17 feet
 n = Manning's roughness coefficient = 0.2

15A. Using the Method Described in the RG-348

Manning's Equation: $Q = 1.49 A_{CS} R_h^{2/3} S^{1/2}$

$b = 0.134 \pm Q_{10}^{-0.25}$ - $z y$ = 0.12 feet
 y = 0.51 ft

$Q = C I A$ = 0.17 cfs

To calculate the flow velocity in the swale:

V (Velocity of Flow in the swale) = Q/A_{CS} = 0.25 ft/sec

To calculate the resulting swale length:

L = Minimum Swale Length = V (ft/sec) * 300 (sec) = 75.32 feet

If any of the resulting values do not meet the design requirement set forth in RG-348, the design parameters must be modified and the solver rerun.

15B. Alternative Method using Excel Solver

Design $Q = C I A$ = 0.17 cfs

Manning's Equation $Q =$ 0.17 cfs
Swale Width = 0.99 ft

Error 1 = 0.00

Instructions are provided to the right (green comments).

Flow Velocity = 0.25 ft/s
Minimum Length = 75.32 ft

Instructions are provided to the right (blue comments).

Design Width = 2 ft
Design Discharge = 0.17 cfs
Design Depth = 0.28 ft
Flow Velocity = 0.17 cfs
Minimum Length = 51.91 ft

Error 2 = 0.00

If any of the resulting values do not meet the design requirement set forth in RG-348, the design parameters may be modified and the solver rerun. If any of the resulting values still do not meet the design requirement set forth in RG-348, widening the swale bottom value may not be possible.



EST. 1848
GEORGETOWN
TEXAS

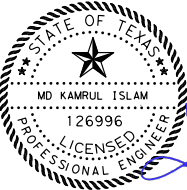


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NOTES:
1. RAINFALL INTENSITY ARE BASED ON CITY OF GEORGETOWN NOAA ATLAS 14 INTENSITY-DURATION-FREQUENCY CURVE COEFFICIENTS.
2. INTERNAL DRAINAGE ARE RUNOFFS USING RATIONAL METHOD.
3. THE 25-YR STORM EVENT IS THE DESIGN STORM. 100-YR STORM EVENT CALCULATION ARE CHECKED PER CITY DRAINAGE CRITERIA MANUAL.

REV	DESCRIPTION	BY	DATE



09/29/2025

WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
EXISTING AND PROPOSED
DRAINAGE
CALCULATIONS

RPS Project No. 200-312337-24001

CSJ# 0914-05-202

Client I.D. CITY OF GEORGETOWN

Drawn By CCS/PRM

Checked By KJH

Scale: AS SHOWN

Sheet 1 of 2

Sheet No. 75

Date 9/25/2025

9/25/2025 5:48:32 PM *Projects\AUS-SP\008261 City of Georgetown\Williams Drive\07.00 CADD\Williams Drive\06-v Drainage Deta\15\008261*DRN_CALC\$*2.dgn RPS(TT) - Moheera Maroo

DRAINAGE AREA ID	TIMES OF CONCENTRATION																								
	SHEET/OVERLAND								SHALLOW CONCENTRATED								CHANNEL FLOW								TOTAL
	LENGTH	MANNINGS	P2	E1a	E1b	SLOPE	VELOCITY	Tc	LENGTH	E1a	E1b	Paved/ unpaved	SLOPE	VELOCITY	Tc	LENGTH	MANNINGS	E1a	E1b	S	A	Pw	V	Tc	Tc
	FT	n		US	DS	%	FPS	MIN	FT	US	DS		%	FPS	MIN	FT	n	US	DS	%	SQ FT	FT	FPS	MIN	MIN
EXIST-A10-NE1	60	0.02	4.2	822.18	821.08	1.83%	1.02	0.98				Unpaved				173.80	0.04	821.08	820.16	0.53%	3.00	12.25	1.06	2.73	5.00
EXIST-A10-NE2	41	0.02	4.2	819.81	818.80	2.48%	0.89	0.76	86.09	818.80	816.63	Unpaved	2.52%	2.80	0.56	136.85	0.04	816.63	814.34	1.67%	31.03	25.20	5.54	0.41	5.00
EXIST-A10-NE3	100	0.30	4.2	826.48	823.70	2.78%	0.13	13.05	124.55	823.70	820.18	Unpaved	2.83%	2.80	0.77	249.24	0.04	820.18	816.45	1.50%	15.57	28.57	3.04	1.37	15.18
EXIST-A10-NE4	38	0.02	4.2	830.02	829.36	1.75%	0.76	0.83	72.12	829.36	828.94	Unpaved	0.58%	1.40	0.98	334.26	0.04	828.94	821.21	2.31%	9.31	17.40	3.73	1.49	5.00
EXIST-A10-NE5	47	0.02	4.2	830.62	829.06	3.31%	1.03	0.77				Unpaved				309.43	0.04	829.06	828.55	0.16%	1.81	12.68	0.41	12.50	13.27
EXIST-A10-SE1	39	0.30	4.2	818.35	817.71	1.64%	0.09	7.60				Unpaved				186.21	0.04	817.71	816.04	0.90%	9.16	15.79	2.45	1.26	8.86
PROP-A10-NE1	60	0.02	4.2	822.18	821.08	1.83%	1.02	0.98				Unpaved				173.80	0.04	821.08	820.16	0.53%	3.00	12.25	1.06	2.73	5.00
PROP-A10-NE2	41	0.02	4.2	819.81	818.80	2.48%	0.89	0.76	86.09	818.80	816.63	Unpaved	2.52%	2.80	0.56	136.85	0.04	816.63	814.34	1.67%	31.03	25.20	5.54	0.41	5.00
PROP-A10-NE3	100	0.30	4.2	826.48	823.70	2.78%	0.13	13.05	124.55	823.70	820.18	Unpaved	2.83%	2.80	0.77	249.24	0.04	820.18	816.45	1.50%	15.57	28.57	3.04	1.37	15.18
PROP-A10-NE4	38	0.02	4.2	830.02	829.36	1.75%	0.76	0.83	72.12	829.36	828.94	Unpaved	0.58%	1.40	0.98	334.26	0.04	828.94	821.21	2.31%	9.31	17.40	3.73	1.49	5.00
PROP-A10-NE5	47	0.02	4.2	830.62	829.06	3.31%	1.03	0.77				Unpaved				309.43	0.04	829.06	828.55	0.16%	1.81	12.68	0.41	12.50	13.27
PROP-A10-SE1	39	0.30	4.2	818.35	817.71	1.64%	0.09	7.60				Unpaved				191.82	0.20	817.03	816.04	0.52%	9.16	15.79	0.37	8.58	16.18

RATIONAL METHOD													
DRAINAGE AREA ID	AREA	WEIGHTED COEFFICIENT 2 year	WEIGHTED COEFFICIENT 10 year	WEIGHTED COEFFICIENT 25 year	WEIGHTED COEFFICIENT 100 year	INTENSITY				DISCHARGE			
						2-year	10-year	25-year	100-year	2-year	10-year	25-year	100-year
	AC	C	C	C	C	IN/HR	IN/HR	IN/HR	IN/HR	CFS	CFS	CFS	CFS
EXIST-A10-NE1	1.03	0.93	0.93	0.93	0.94	6.48	8.64	9.84	11.88	6.21	8.32	9.49	11.51
EXIST-A10-NE2	0.85	0.73	0.75	0.76	0.79	6.48	8.64	9.84	11.88	4.03	5.51	6.36	7.92
EXIST-A10-NE3	2.75	0.44	0.48	0.51	0.57	4.58	6.30	7.33	8.97	5.60	8.41	10.27	13.96
EXIST-A10-NE4	1.17	0.53	0.56	0.58	0.63	6.48	8.64	9.84	11.88	4.01	5.68	6.70	8.73
EXIST-A10-NE5	0.58	0.62	0.65	0.67	0.70	4.84	6.63	7.69	9.39	1.75	2.50	2.97	3.83
EXIST-A10-SE1	0.31	0.64	0.66	0.68	0.71	5.59	7.55	8.68	10.55	1.10	1.54	1.81	2.32
PROP-A10-NE1	1.03	0.93	0.93	0.93	0.94	6.48	8.64	9.84	11.88	6.21	8.32	9.49	11.51
PROP-A10-NE2	0.85	0.78	0.79	0.80	0.82	6.48	8.64	9.84	11.88	4.28	5.82	6.69	8.28
PROP-A10-NE3	2.75	0.44	0.48	0.51	0.57	4.58	6.30	7.33	8.97	5.60	8.41	10.27	13.96
PROP-A10-NE4	1.17	0.53	0.56	0.58	0.63	6.48	8.64	9.84	11.88	4.01	5.68	6.70	8.73
PROP-A10-NE5	0.58	0.62	0.65	0.67	0.70	4.84	6.63	7.69	9.39	1.75	2.50	2.97	3.83
PROP-A10-SE1	0.31	0.64	0.66	0.68	0.71	4.45	6.14	7.16	8.77	0.87	1.25	1.49	1.93
EXIST-DA 10	Contributing Areas: EXIST-A10-NE1, EXIST-A10-NE2, EXIST-A10-NE3, EXIST-A10-NE4, EXIST-A10-NE5, EXIST-A10-SE1									22.70	31.96	37.59	48.27
PROP-DA 10	Contributing Areas: PROP-A10-NE1, PROP-A10-NE2, PROP-A10-NE3, PROP-A10-NE4, PROP-A10-NE5, PROP-A10-SE1									22.73	31.98	37.61	48.23
EXIST-DA 1	NO NET INCREASE IN IMPERVIOUS COVER												
EXIST-DA 2	NO NET INCREASE IN IMPERVIOUS COVER												
EXIST-DA 3	NO NET INCREASE IN IMPERVIOUS COVER												
EXIST-DA 4	NO NET INCREASE IN IMPERVIOUS COVER												
EXIST-DA 5	NO NET INCREASE IN IMPERVIOUS COVER												
EXIST-DA 7	NO NET INCREASE IN IMPERVIOUS COVER												
EXIST-DA 8	NO NET INCREASE IN IMPERVIOUS COVER												
EXIST-DA 9	NO NET INCREASE IN IMPERVIOUS COVER												

COG - DRAINAGE CRITERIA MANUAL - TABLE 3-2 MANNING'S ROUGHNESS COEFFICIENTS FOR SHEET AND SHALLOW CONCENTRATED FLOW – RATIONAL METHOD2

0.016	Concrete (rough or smoothed finish)
0.02	Asphalt
0.1	0-50% vegetated ground cover, remaining bare soil or rock outcrops, minimum brush or tree cover
0.2	50-90% vegetated ground cover, remaining bare soil or rock outcrops, minimum- medium brush or tree cover
0.3	100% vegetated ground cover, medium-dense grasses (lawns, grassy fields etc.), medium brush or tree cover
0.6	100% vegetated ground cover with areas of heavy vegetation (parks, green-belts, riparian areas etc.), dense under-growth with medium to heavy tree growth

COG - DRAINAGE CRITERIA MANUAL - Table 6-1, Manning's Roughness Coefficients

0.04	Man Made Maintained Grass Lined
0.055	Man Made Unmaintained Grass Lined
0.015	Concrete Lined
0.045	Rock Riprap Lined

SUMMARY OF DRAINAGE DITCHES																
DITCH ID	CONTRIBUTING AREA	DEPTH (FT)	BOTTOM WIDTH (FT)	FORESLOPE	BACKSLOPE	MANNINGS	FLOWLINE UPSTREAM (FT)	FLOWLINE DOWNSTREAM (FT)	LENGTH (FT)	SLOPE (%)	25-YEAR			100-YEAR		
											Q Total	Q Ditch Capacity	V Ditch	Q Total	Q Ditch Capacity	V Ditch
											CFS	CFS	FPS	CFS	CFS	FPS
EXIST-A10-SE1	EXIST-A10-SE1	1.00	0.00	6:1	5.5	0.04	817.61	816.04	177	0.8870	1.81	12.51	1.34	2.32	12.51	1.43
PROP-A10-SE1	PROP-A10-SE1	1.40	2.00	6:1	6.5	0.20	817.03	816.04	192	0.5161	1.49	6.60	0.30	1.93	6.60	0.32

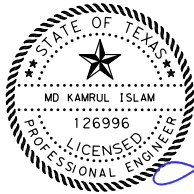


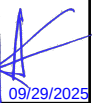
Texas PE Firm Reg. #F-929

4801 Southwest Pkwy, Pkwy 1, Suite 185, Austin, Texas 78735
T +1 512 328 5771 E usinfrastructure@rpsgroup.com

- NOTES:
- RAINFALL INTENSITY ARE BASED ON CITY OF GEORGETOWN NOAA ATLAS 14 INTENSITY-DURATION -FREQUENCY CURVE COEFFICIENTS.
 - INTERNAL DRAINAGE ARE RUNOFFS USING RATIONAL METHOD.
 - THE 25-YR STORM EVENT IS THE DESIGN STORM.100-YR STORM EVENT CALCULATION ARE CHECKED PER CITY DRAINAGE CRITERIA MANUAL.

REV	DESCRIPTION	BY	DATE




09/29/2025

WILLIAMS DRIVE
MOBILITY ENHANCEMENTS
EXISTING AND PROPOSED
DRAINAGE
CALCULATIONS

RPS Project No.200-312337-24001		
CSJ# 0914-05-202		
Client I.D. CITY OF GEORGETOWN		
Drawn By CCS/PRM	Checked By KJH	
Scale: AS SHOWN	Sheet 2 of 2	Sheet No. 76
Date 9/25/2025		

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

I JONATHAN MORZLES
Print Name
ASSISTANT CIP MANGER
Title - Owner/President/Other
of CITY OF GEORGETOWN
Corporation/Partnership/Entity Name
have authorized Md Kamrul Islam, P.E.
Print Name of Agent/Engineer
of RPS Infrastructure, Inc.
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:


Applicant's Signature

SEPT 26, 2025
Date

THE STATE OF TEXAS §

County of WILLIAMSON §

BEFORE ME, the undersigned authority, on this day personally appeared JONATHAN MORALES 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 26th day of SEPTEMBER 2025




NOTARY PUBLIC

SHEILA K. MITCHELL
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: Nov. 10, 2025

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Williams Drive Mobility Enhancements

Regulated Entity Location: WILLIAMS DRIVE FROM SERENADA DRIVE TO SB I-35 FRONTAGE ROAD, GEORGETOWN, WILLIAMSON COUNTY, TEXAS.

Name of Customer: City of Georgetown

Contact Person: Md Kamrul Islam, P.E.

Phone: (210) 299-7912

Customer Reference Number (if issued): CN 600412043

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

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
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	Acres	\$
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	\$ 500
Extension of Time	Each	\$

Signature: _____

Date: 10/15/2025

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>
-----------------------	-------------------

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



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
☒ New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
☐ Renewal (Core Data Form should be submitted with the renewal form)	☐ Other	
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 600412043		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)			
☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership ☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<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>	
City of Georgetown					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
11. Type of Customer:		☐ Corporation		☐ Individual	Partnership: ☐ General ☐ Limited
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other		☐ Sole Proprietorship		☐ Other:	
12. Number of Employees				13. Independently Owned and Operated?	
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher				☐ Yes ☐ No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
☐ Owner ☐ Operator ☒ Owner & Operator ☐ Other: ☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant					
15. Mailing Address:					
City		State	ZIP	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.)								
☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ 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.)								
Williams Drive Mobility Enhancements								
23. Street Address of the Regulated Entity: (No PO Boxes)								
	City		State		ZIP		ZIP + 4	
24. County								

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

25. Description to Physical Location:	WILLIAMS DRIVE - FROM SERENADA DRIVE TO SB I-35 FRONTAGE ROAD							
26. Nearest City					State	Nearest ZIP Code		
Georgetown					TX		78626	
<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
29. Primary SIC Code	30. Secondary SIC Code		31. Primary NAICS Code			32. Secondary NAICS Code		
(4 digits)	(4 digits)		(5 or 6 digits)			(5 or 6 digits)		
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
34. Mailing Address:								
	City		State		ZIP		ZIP + 4	
35. E-Mail Address:								
36. Telephone Number	37. Extension or Code				38. Fax Number (if applicable)			
() -					() -			

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

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

SECTION IV: Preparer Information

40. Name:	Md Kamrul Islam, P.E.	41. Title:	Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 299-7912		() -	KAMRUL.ISLAM@tetrattech.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:	RPS Infrastructure, Inc.	Job Title:	Project Manager
Name (In Print):	Md Kamrul Islam, P.E.	Phone:	(512) 299- 7912
Signature:		Date:	09/26/2025