CONTRIBUTING ZONE PLAN

RAIDER WAY ROAD IMPROVEMENTS

Leander, Texas 78641

PREPARED FOR:

City of Leander

201 North Brushy Street
Leander, Texas 78641
512-382-2766

PREPARED BY:

Walker Partners
engineers ★ surveyors

804 Las Cimas Pkwy, Suite 150
Austin, Texas 78746
512-382-0021

David P Smith

STATE OF TEXAS
DAVID P SMITH
56239
REGISTERED
PROFESSIONAL ENGINEER

3-21-23

SUBMITTED:

March 2023

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: Raider Way Road Improvements					**2. Regulated Entity No.:**			
3. Customer Name: Leander					**4. Customer No.:** CN600646012			
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):**		19.10	
9. Application Fee:	$6,500		**10. Permanent BMP(s):**		(1) 8'x16', (1) 8'x11', and (1) 4'x6' Contech Jellyfish Filter Vaults			
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**		N/A			
13. County:	Williamson		**14. Watershed:**		South Brushy Creek-Brushy Creek			

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.)	__	__	1
Region (1 req.)	__	__	1
County(ies)	__	__	1
Groundwater Conservation District(s)	__Edwards Aquifer Authority __Barton Springs/ Edwards Aquifer __Hays Trinity __Plum Creek	__Barton Springs/ Edwards Aquifer	NA 0
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 1 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. David P. Smith, P.E., CFM
Print Name of Customer/Authorized Agent David P Smith 3-21-23 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):	

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Attachment F:	Structural Practices
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- **Section 3: Copy of Notice of Intent (NOI)**

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  Check Payable to the “Texas Commission on Environmental Quality”

- **Section 6: Core Data Form (TCEQ-10400)**

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SECTION 1:

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

Contributing Zone Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), 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 **Contributing Zone Plan Application** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: David P. Smith, P.E., CFM

Date: 3-21-23

Signature of Customer/Agent:

Regulated Entity Name: Raider Way Road Improvements

Project Information

1. County: Williamson
2. Stream Basin: Brazos River Basin / San Gabriel Sub Basin
3. Groundwater Conservation District (if applicable): N/A
4. Customer (Applicant):

   Contact Person: Tony Bettis, PMP
   Entity: City of Leander
   Mailing Address: 201 N Brushy St.
   City, State: Leander, TX Zip: 78641
   Telephone: 512-528-2732 Fax: N/A
   Email Address: tbettis@leandertx.gov

5. Agent/Representative (If any):

Contact Person: David P. Smith, P.E., CFM
Entity: Walker Partners Engineers | Surveyors
Mailing Address: 804 Las Cimas Pkwy, Suite 150
City, State: Austin, TX Zip: 78746
Telephone: 512-382-0021 Fax: N/A
Email Address: dsmith@walkerpartners.com

6. Project Location:

[X] The project site is located inside the city limits of Leander
[ ] 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.

7. [X] The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.
RAIDER WAY, FROM E. CRYSTAL FALLS PARKWAY TO 317 FT. NORTH OF E. WOODVIEW DRIVE; E. WOODVIEW DRIVE, FROM 183A NORTHBOUND FRONTAGE ROAD TO 323 FT. EAST OF RAIDER WAY.

8. [X] **Attachment A - Road Map**. A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.

9. [X] **Attachment B - USGS Quadrangle Map**. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) clearly show:

[X] Project site boundaries.
[X] USGS Quadrangle Name(s).

10. [X] **Attachment C - Project Narrative**. A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:

[X] Area of the site
[X] Offsite areas
[X] Impervious cover
[X] Permanent BMP(s)
[X] Proposed site use
[X] Site history
[X] Previous development
[X] Area(s) to be demolished

11. Existing project site conditions are noted below:

[ ] Existing commercial site
[ ] Existing industrial site
[ ] Existing residential site

- [X] Existing paved and/or unpaved roads
- [ ] Undeveloped (Cleared)
- [ ] Undeveloped (Undisturbed/Not cleared)
- [ ] Other: _____

12. The type of project is:

- [ ] Residential: # of Lots: _____
- [ ] Residential: # of Living Unit Equivalents: _____
- [ ] Commercial
- [ ] Industrial
- [X] Other: public road improvements.

13. Total project area (size of site): 19.10 Acres

    Total disturbed area: 14.54 Acres

14. Estimated projected population: 0

15. The amount and type of impervious cover expected after construction is complete is shown below:

Table 1 - Impervious Cover

Impervious Cover of Proposed Project	*Sq. Ft.*	*Sq. Ft./Acre*	*Acres*
Structures/Rooftops	0	÷ 43,560 =	0
Parking	0	÷ 43,560 =	0
Other paved surfaces	467,150	÷ 43,560 =	10.72
Total Impervious Cover	467,150	÷ 43,560 =	10.72

Total Impervious Cover 10.72 acres **÷ Total Acreage** 19.10 **X 100 =** 56.13 **% Impervious Cover**

16. [X] **Attachment D - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.

17. [X] Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

For Road Projects Only

Complete questions 18 - 23 if this application is exclusively for a road project.

- [ ] N/A

18. Type of project:

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

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

- [ ] Concrete
- [X] Asphaltic concrete pavement
- [ ] Other: _____

20. Right of Way (R.O.W.):

Length of R.O.W.: 5,407.1 feet.
Width of R.O.W.: 71.62 feet.
L x W = 387,246.07 Ft^2 ÷ 43,560 Ft^2/Acre = 8.89 acres.

21. Pavement Area:

Length of pavement area: 5,407.1 feet.
Width of pavement area: 45.49 feet.
L x W = 245,954.96 Ft^2 ÷ 43,560 Ft^2/Acre = 5.65 acres.
Pavement area 5.65 acres ÷ R.O.W. area 8.89 acres x 100 = 63.51 % impervious cover.

22. [ ] A rest stop will be included in this project.

[X] A rest stop will not be included in this project.

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

25. [ ] Wastewater is to be discharged in the contributing zone. Requirements under 30 TAC §213.6(c) relating to Wastewater Treatment and Disposal Systems have been satisfied.

[X] N/A

26. Wastewater will be disposed of by:

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

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

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

☐ Sewage Collection System (Sewer Lines):
The sewage collection system will convey the wastewater to the _____ (name) Treatment Plant. The treatment facility is:

☐ Existing.
☐ Proposed.

☒ N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

Complete questions 27 - 33 if this project includes the installation of AST(s) with volume(s) greater than or equal to 500 gallons.

☒ N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

AST Number	*Size (Gallons)*	*Substance to be Stored*	*Tank Material*
1			
2			
3			
4			
5			

Total x 1.5 = _____ Gallons

28. ☐ The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than

one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

☐ **Attachment G - Alternative Secondary Containment Methods**. Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are attached.

29. Inside dimensions and capacity of containment structure(s):

Table 3 - Secondary Containment

Length (L)(Ft.)	*Width(W)(Ft.)*	*Height (H)(Ft.)*	*L x W x H = (Ft3)*	*Gallons*

Total: _____ Gallons

30. Piping:

☐ All piping, hoses, and dispensers will be located inside the containment structure.
☐ Some of the piping to dispensers or equipment will extend outside the containment structure.
☐ The piping will be aboveground
☐ The piping will be underground

31. ☐ The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of: _____.

32. ☐ **Attachment H - AST Containment Structure Drawings**. A scaled drawing of the containment structure is attached that shows the following:

☐ Interior dimensions (length, width, depth and wall and floor thickness).
☐ Internal drainage to a point convenient for the collection of any spillage.
☐ Tanks clearly labeled
☐ Piping clearly labeled
☐ Dispenser clearly labeled

33. ☐ Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.

☐ In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.

☐ In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

Site Plan Requirements

Items 34 - 46 must be included on the Site Plan. Please refer to Sheet C300 Overall Drainage Area Map as the Site Plan.

34. ☐ The Site Plan must have a minimum scale of 1" = 400'.

    Site Plan Scale: 1" = 200 '.

35. 100-year floodplain boundaries:

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

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

    The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA Flood Insurance Map Panel No. 48491C0455F, dated December 20, 2019

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

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

37. ☒ A drainage plan showing all paths of drainage from the site to surface streams.

38. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.

39. ☒ Areas of soil disturbance and areas which will not be disturbed.

40. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices. Please refer to Sheets C021-C030 Erosion and Sedimentation Control Plans for #39, #40, and #41.

41. ☒ Locations where soil stabilization practices are expected to occur.

42. ☐ Surface waters (including wetlands).

    ☒ N/A

43. ☐ Locations where stormwater discharges to surface water.

    ☒ There will be no discharges to surface water.

44. ☐ Temporary aboveground storage tank facilities.

    ☒ Temporary aboveground storage tank facilities will not be located on this site.

45. ☐ Permanent aboveground storage tank facilities.

☐ Permanent aboveground storage tank facilities will not be located on this site.

46. ☐ Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

Practices and measures that will be used during and after construction is completed.

47. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.

☐ N/A

48. ☒ 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

49. ☒ 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

50. 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.

51. 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 I - 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.

52. ☒ **Attachment J - 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.

53. ☒ **Attachment K - 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.

54. ☒ **Attachment L - BMPs for Surface Streams**. A description of the BMPs and measures that prevent pollutants from entering surface streams is attached.

- ☐ N/A

55. ☒ **Attachment M - Construction Plans**. Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. Construction plans for the proposed permanent BMPs and measures are

attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

☐ N/A

56. ☒ **Attachment N - Inspection, Maintenance, Repair and Retrofit Plan**. A site and BMP specific plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan fulfills all of the following:

    ☒ Prepared and certified by the engineer designing the permanent BMPs and measures
    ☒ Signed by the owner or responsible party
    ☒ Outlines specific procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofit.
    ☒ Contains a discussion of record keeping procedures

    ☐ N/A

57. ☐ **Attachment O - 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

58. ☒ **Attachment P - 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 result in water quality degradation.

    ☐ N/A

Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

59. ☒ 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.

60. ☒ 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.

Administrative Information

61. [X] 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.

62. [X] Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.

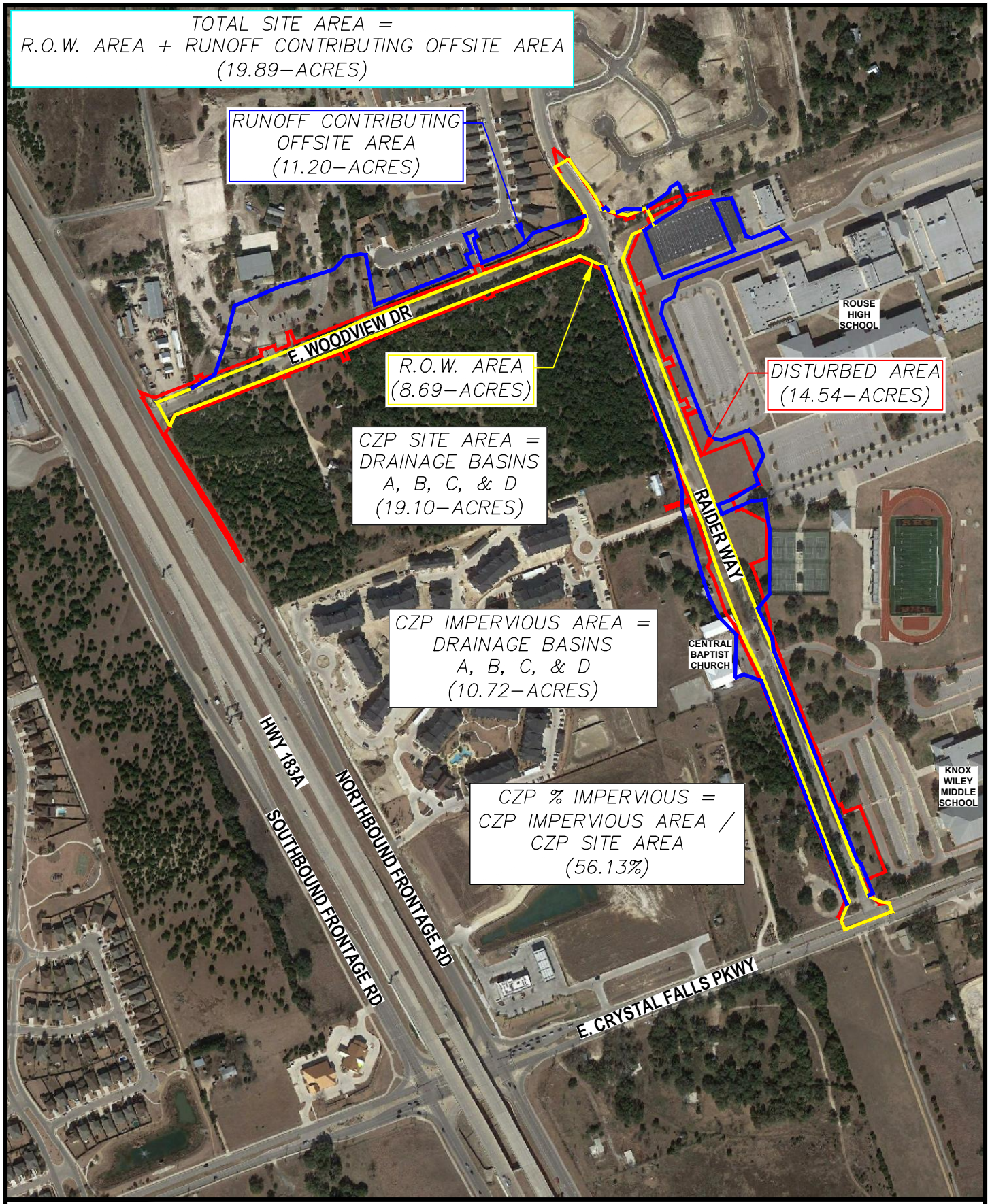
63. [ ] The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.

[X] The Temporary Stormwater Section (TCEQ-0602) is included with the application.

Walker Partners
engineers ★ surveyors

ATTACHMENT A:

ROAD MAP



ATTACHMENT A - ROAD MAP

SCALE: 1" = 500'

Walker Partners
engineers ★ surveyors
T.B.P.E. Registration No. 8053

CLIENT NAME:	CITY OF LEANDER
PROJECT NAME:	RAIDER WAY ROAD IMPROVEMENTS
PROJECT #:	3-00585
SUBMIT DATE:	MARCH 2023

N
W E
S

Walker Partners
engineers ★ surveyors

ATTACHMENT B:

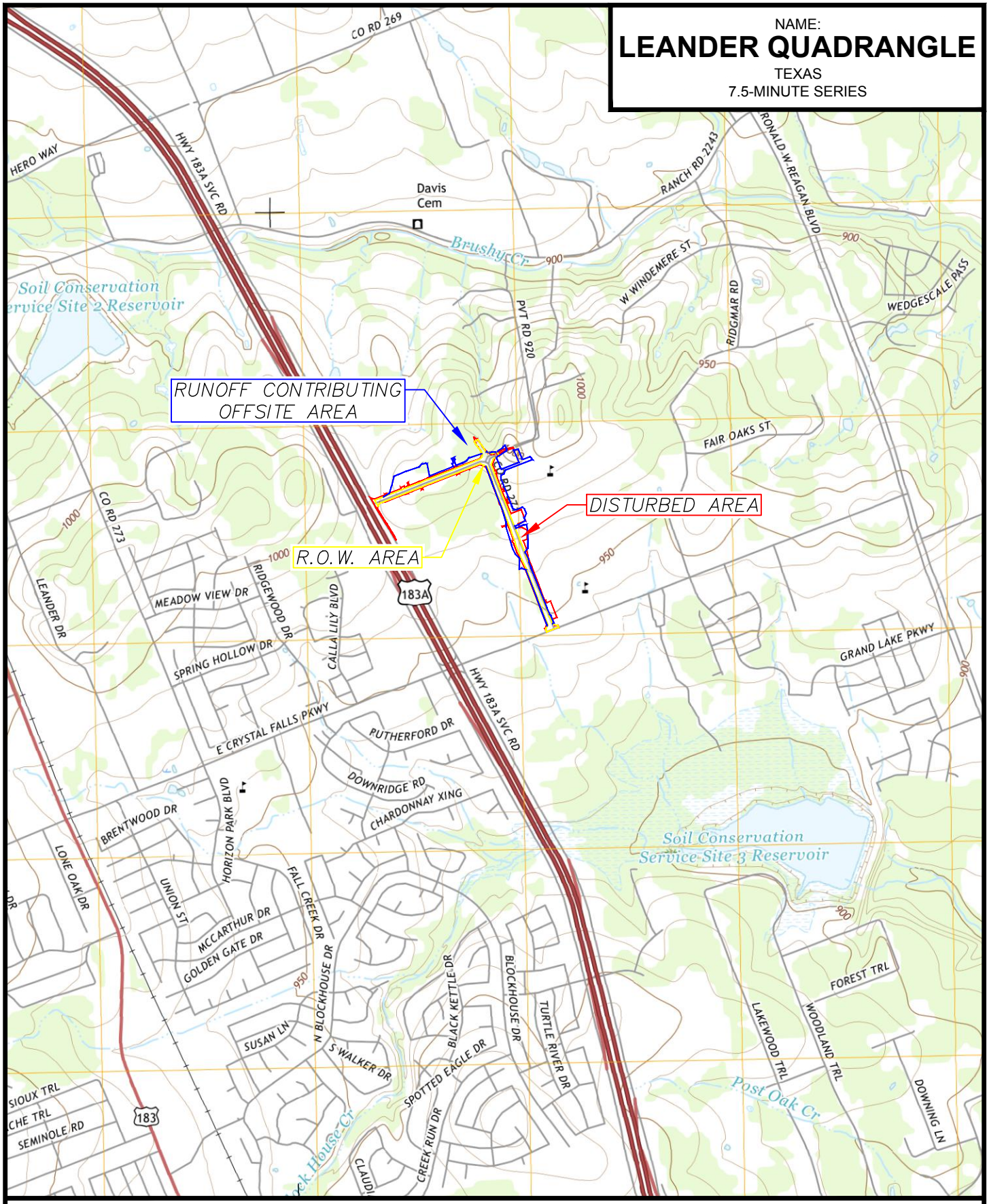
USGS QUADRANGLE MAP

NAME:

LEANDER QUADRANGLE

TEXAS

7.5-MINUTE SERIES



ATTACHMENT B - USGS QUADRANGLE MAP

SCALE: 1" = 2000'	CLIENT NAME: CITY OF LEANDER	N / W / E / S
Walker Partners engineers ★ surveyors T.B.P.E. Registration No. 8053	PROJECT NAME: RAIDER WAY ROAD IMPROVEMENTS	
	PROJECT #: 3-00585	
	SUBMIT DATE: MARCH 2023	

Walker Partners
engineers ★ surveyors

ATTACHMENT C:

PROJECT NARRATIVE

Walker Partners
engineers ★ surveyors

804 Las Cimas Parkway, Suite 150
Austin, Texas 78746

March 2023
Texas Commission on Environmental Quality (TCEQ): Austin Regional Office
12100 Park 35 Circle
Austin, TX 78753
512-339-2929

Re: CZP Application: Attachment C – Project Narrative
Raider Way Road Improvements
Leander, Williamson County, Texas 78641

To Whom It May Concern:

Walker Partners is pleased to provide the following Project Narrative for Raider Way Road Improvements located in Leander, Texas. Raider Way, from East Crystal Falls Parkway to 317-ft North of East Woodview Drive and East Woodview Drive, from 183A Northbound Frontage Road to 323-ft East of Raider Way.

The subject property is 14.54-acres of disturbed area, 19.10-acres of site area, 8.69-acres of right-of-way, and 11.20-acres of runoff contributing offsite areas. The site impervious cover is 10.72 acres (56.13%) which includes the proposed widening of East Woodview Drive, Raider Way, corresponding sidewalks, and other necessary site improvements such as an underground duct bank, stormwater mitigation, and environmental protection.

Site area not within the right-of-way is contained in easements or right-of-way dedication, except for the proposed deceleration lane in the Highway 183A Northbound Frontage Road within the Central Texas Regional Mobility Authority (CTRMA) right-of-way. The City of Leander applied for a permit to construct access driveway facilities on highway right-of-way on March 28, 2023. CTRMA Senior Engineer Oscar Solis has stated that permit will be granted in 2-weeks. A map of all easements with a number corresponding to the easement, dedication, or permit description is included along with the recorded documents for the site area not within the right-of-way.

There are three (3) offsite areas that do not contribute runoff to the site: the turn lane widening on Highway 183A Northbound Frontage Road, Raider Way north of the roundabout, and the Raider Way tie-in at East Crystal Falls Parkway. The turn lane on the Highway 183A Northbound Frontage Road is in CTRMA right-of-way which has the required water quality measures in place and the proposed pavement width is no greater than the width of the existing roadway ditch. The section of Raider Way north of the roundabout is no wider than the existing road. The Raider Way tie-in at East Crystal Falls Parkway only includes re-pavement to connect to the existing road which has existing water quality treatment measures.

Leander ISD has agreed to dedicate an area of their land to be used for detention. The CTRMA has existing right-of-way for the construction of a deceleration lane on Highway 183A Northbound Frontage Road. We have provided agreement and easement paperwork with the Agent Authorization Form.

The project is located in the Turkey Creek-Brushy Creek Watershed. Water quality controls are required when impervious cover is in excess of 20% of the site.

Permanent BMPs/water quality for the site will be provided by three (3) Contech Jellyfish Filter Vaults: 8'x16', 8'x11', and 4'x6'. Two Contech Jellyfish filters are all located in the right-of-way of East Woodview Drive and one Contech Jellyfish filter is located in the area dedicated by Leander ISD for the most downstream detention pond on Raider Way. Four (4) detention ponds are proposed with the project, and all detention ponds are within drainage easements and/or right-of-way.

The subject site is located within the Edwards Aquifer Contributing Zone and no portion of the subject site is located within the 100-year floodplain according to the FEMA Flood Insurance Map Panel No. 48491C0455F, dated December 20, 2019.

There have been no previous roadway developments or improvements. To allow for the expansion of the roadway, existing asphalt pavement, driveways, and sidewalks will be demolished and replaced.

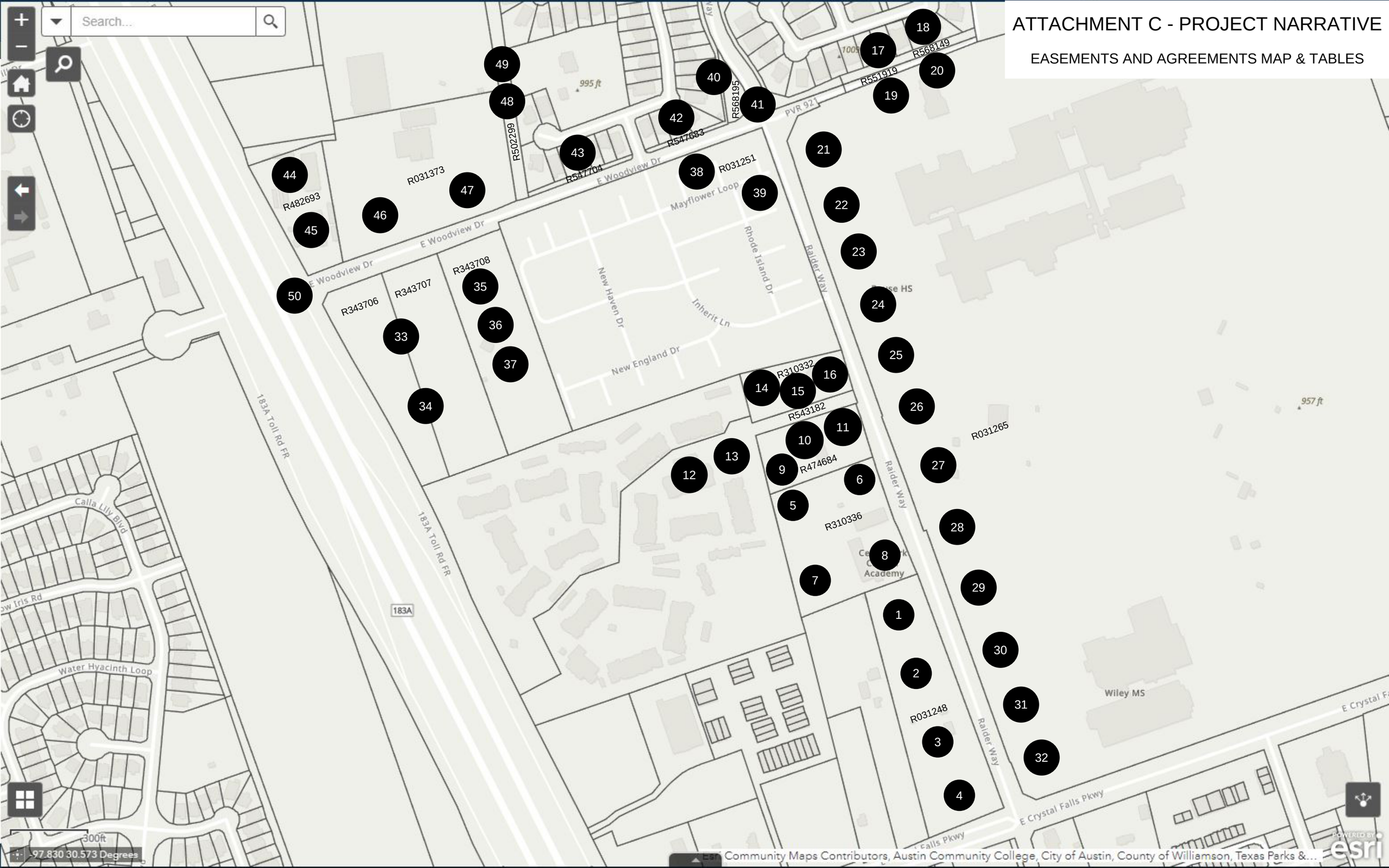
To our knowledge, the enclosed application and attachments are in compliance with the Technical Criteria Manuals of the TCEQ. Please contact us if you have any questions or would like additional information.

Sincerely,

David P. Smith, P.E., CFM
Client Manager

ATTACHMENT C - PROJECT NARRATIVE

EASEMENTS AND AGREEMENTS MAP & TABLES



ATTACHMENT C - PROJECT NARRATIVE

EASEMENTS AND AGREEMENTS MAP & TABLES

RAIDER WAY					
EXHIBIT 1 #	**WILLIAMSON COUNTY PID**	**CONVEYANCE**	**DESCRIPTION**	**WILLIAMSON COUNTY CLERK'S DOCUMENT NUMBER**	**DOCUMENT RECORDING DATE**
1	R031248	MANEEB MELLEM TO THE CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF RIGHT-OF-WAY (0.455 ACRE)	2020166523	DECEMBER 29,2020
2	R031248	MANEEB MELLEM TO CITY OF LEANDER	7.5' WIDE (0.033 ACRE) PUBLIC UTILITY EASEMENT	2020166524	DECEMBER 29,2020
3	R031248	MANEEB MELLEM TO CITY OF LEANDER	15' WIDE (0.017 ACRE) PUBLIC UTILITY EASEMENT	2020166524	DECEMBER 29,2020
4	R031248	MANEEB MELLEM TO CITY OF LEANDER	15' WIDE (0.332 ACRE) SIDEWALK EASEMENT AND PUBLIC UTILITY EASEMENT	2020166525	DECEMBER 29,2020
5	R310336	CENTRAL BAPTIST CHURCH OF WILLIAMSON COUNTY TO THE CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF RIGHT-OF-WAY (0.116 ACRE)	2020094558	AUGUST 17, 2020
6	R310336	CENTRAL BAPTIST CHURCH OF WILLIAMSON COUNTY TO CITY LEANDER	15' WIDE (0.162 ACRE) SIDEWALK EASEMENT AND PUBLIC UTILITY EASEMENT	2020094559	AUGUST 17, 2020
7	R310336	CENTRAL BAPTIST CHURCH OF WILLIAMSON COUNTY TO CITY LEANDER	7.5' WIDE (0.039 ACRE) PUBLIC UTILITY EASEMENT	2020094560	AUGUST 17, 2020
8	R310336	CENTRAL BAPTIST CHURCH OF WILLIAMSON COUNTY TO CITY LEANDER	15' WIDE (0.017 ACRE) PUBLIC UTILITY EASEMENT	2020094560	AUGUST 17, 2020
9	R474684	CENTRAL BAPTIST CHURCH OF WILLIAMSON COUNTY TO THE CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF RIGHT-OF-WAY (0.028 ACRE)	2020094552	AUGUST 14, 2020
10	R474684	CENTRAL BAPTIST CHURCH OF WILLIAMSON COUNTY TO CITY LEANDER	15' WIDE (0.072 ACRE) SIDEWALK EASEMENT AND PUBLIC UTILITY EASEMENT	2020094553	AUGUST 14, 2020
11	R474684	CENTRAL BAPTIST CHURCH OF WILLIAMSON COUNTY TO CITY LEANDER	15' WIDE (0.017 ACRE) PUBLIC UTILITY EASEMENT	2020094554	AUGUST 14, 2020
12	R543182	THE CITY OF LEANDER, TEXAS VS GC PARKWAY CROSSING, LTD	NOTICE OF LIS PENDENS 0.002 ACRE RIGHT-OF-WAY TRACT	2022070810	JUNE 06, 2022
13	R543182	THE CITY OF LEANDER, TEXAS VS GC PARKWAY CROSSING, LTD	NOTICE OF LIS PENDENS 15' WIDE (0.017 ACRE) SIDEWALK AND PUBLIC UTILITY EASEMENT	2022070810	JUNE 06, 2022
14	R310332	KATHY LYNN HALL AND CHAD MICHAEL HALL TO THE CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF RIGHT-OF-WAY (0.002 ACRE)	2019103675	OCTOBER 29, 2019
15	R310332	KATHY LYNN HALL AND CHAD MICHAEL HALL TO CITY OF LEANDER	15' WIDE (0.055 ACRE) SIDEWALK EASEMENT AND PUBLIC UTILITY EASEMENT	2019103676	OCTOBER 29, 2019
16	R310332	KATHY LYNN HALL AND CHAD MICHAEL HALL TO CITY OF LEANDER	15' WIDE (0.017 ACRE) PUBLIC UTILITY EASEMENT	2019103677	OCTOBER 29, 2019
17	R568149	SCOTT MULLER AND ANGELA MULLER, CHARLES E. ROUSE AND SANDRA P. ROUSE AND LARRY L. HILL AND BECKY E. HILL TO THE CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF RIGHT-OF-WAY (0.168 ACRE)	2019124923	DECEMBER 26,2019
18	R568149	SCOTT MULLER AND ANGELA MULLER, CHARLES E. ROUSE AND SANDRA P. ROUSE AND LARRY L. HILL AND BECKY E. HILL TO THE CITY OF LEANDER, TEXAS	0.058 ACRE TEMPORARY CONSTRUCTION EASEMENT	2019124924	DECEMBER 26,2019
19	R551919	SCOTT MULLER AND ANGELA MULLER, CHARLES E. ROUSE AND SANDRA P. ROUSE AND LARRY L. HILL AND BECKY E. HILL TO THE CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF RIGHT-OF-WAY (0.167 ACRE)	2019124210	DECEMBER 23, 2019
20	R551919	SCOTT MULLER AND ANGELA MULLER, CHARLES E. ROUSE AND SANDRA P. ROUSE AND LARRY L. HILL AND BECKY E. HILL TO THE CITY OF LEANDER, TEXAS	0.049 ACRE TEMPORARY CONSTRUCTION EASEMENT	2019124211	DECEMBER 23, 2019
21	R031265	BOARD OF TRUSTEES LEANDER INDEPENDENT SCHOOL DISTRICT TO THE CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF TRACT 1 RIGHT-OF-WAY (0.360 ACRE)	2022130838	NOVEMBER 28, 2022
22	R031265	BOARD OF TRUSTEES LEANDER INDEPENDENT SCHOOL DISTRICT TO THE CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF TRACT 2 RIGHT-OF-WAY (0.155 ACRE)	2022130838	NOVEMBER 28, 2022
23	R031265	BOARD OF TRUSTEES LEANDER INDEPENDENT SCHOOL DISTRICT TO CITY OF LEANDER	1.286 ACRE SIDEWALK EASEMENT AND PUBLIC UTILITY EASEMENT	2023006541	JANUARY 25, 2023
24	R031265	BOARD OF TRUSTEES LEANDER INDEPENDENT SCHOOL DISTRICT TO CITY OF LEANDER	0.132 ACRE SIDEWALK EASEMENT	2023006542	JANUARY 25, 2023
25	R031265	BOBOARD OF TRUSTEES LEANDER INDEPENDENT SCHOOL DISTRICT TO CITY OF LEANDER	15' WIDE (0.052 ACRE) SIDEWALK EASEMENT	2023006542	JANUARY 25, 2023
26	R031265	BOARD OF TRUSTEES LEANDER INDEPENDENT SCHOOL DISTRICT TO CITY OF LEANDER	0.170 ACRE TEMPORARY CONSTRUCTION EASEMENT	2023006543	JANUARY 25, 2023
27	R031265	BOARD OF TRUSTEES LEANDER INDEPENDENT SCHOOL DISTRICT TO CITY OF LEANDER, TEXAS	0.613 ACRE STORMWATER DRAINAGE EASEMENT	2023006539	JANUARY 25, 2023
28	R031265	BOARD OF TRUSTEES LEANDER INDEPENDENT SCHOOL DISTRICT TO CITY OF LEANDER, TEXAS	30' WIDE (0.362 ACRE) TEMPORARY CONSTRUCTION EASEMENT	2023006539	JANUARY 25, 2023
29	R031265	BOARD OF TRUSTEES LEANDER INDEPENDENT SCHOOL DISTRICT TO CITY OF LEANDER, TEXAS	1.549 ACRE STORMWATER DRAINAGE EASEMENT	2023006540	JANUARY 25, 2023
30	R031265	BOARD OF TRUSTEES LEANDER INDEPENDENT SCHOOL DISTRICT TO CITY OF LEANDER, TEXAS	0.264 ACRE TEMPORARY CONSTRUCTION EASEMENT	2023006540	JANUARY 25, 2023
31	R031265	BOARD OF TRUSTEES LEANDER INDEPENDENT SCHOOL DISTRICT TO CITY OF LEANDER, TEXAS	0.029 ACRE TEMPORARY CONSTRUCTION EASEMENT	2023006540	JANUARY 25, 2023
32	R031265	BOARD OF TRUSTEES LEANDER INDEPENDENT SCHOOL DISTRICT TO CITY OF LEANDER, TEXAS	0.039 ACRE TEMPORARY CONSTRUCTION EASEMENT	2023006540	JANUARY 25, 2023

ATTACHMENT C - PROJECT NARRATIVE

EASEMENTS AND AGREEMENTS MAP & TABLES

EAST WOODVIEW DRIVE					
ATTACHMENT C - APPENDIX 1 MAP #	**WILLIAMSON COUNTY PID**	**CONVEYANCE**	**DESCRIPTION**	**WILLIAMSON COUNTY CLERK'S DOCUMENT NUMBER**	**DOCUMENT RECORDING DATE**
33	R343706 / R343707	ELLEN NEMEC AND THE NEMEC FAMILY TRUST TO THE CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF RIGHT-OF-WAY (0.135 ACRE)	2019076868	AUGUST 19, 2019
34	R343706 / R343707	ELLEN NEMEC AND THE NEMEC FAMILY TRUST TO THE CITY OF LEANDER, TEXAS	12' WIDE (0.133 ACRE) SIDEWALK AND PUBLIC UTILITY EASEMENT	2019076867	AUGUST 19, 2019
35	R343708	ALAN PARSLEY AND CARLA RENEE PARSLEY TO THE CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF RIGHT-OF-WAY (0.071 ACRE)	2019105293	NOVEMBER 01, 2019
36	R343708	ALAN PARSLEY AND CARLA RENEE PARSLEY TO THE CITY OF LEANDER, TEXAS	20' WIDE (0.019 ACRE) DRAINAGE EASEMENT	2023009882	FEBRUARY 08, 2023
37	R343708	ALAN PARSLEY AND CARLA RENEE PARSLEY TO CITY OF LEANDER	12' WIDE (0.072 ACRE) SIDEWALK EASEMENT AND PUBLIC UTILITY EASEMENT	2019105294	NOVEMBER 01, 2019
38	R031251	ECG DEVELOPMENT LLC TO CITY OF LEANDER	0.810 ACRE DEDICATED TO PUBLIC PER PLAT	2023007419	JANUARY 30, 2023
39	R031251	ECG DEVELOPMENT LLC TO CITY OF LEANDER	EASEMENT ACCESS 15' PUBLIC UTILITY EASEMENT, LANDSCAPE EASEMENT AND PEDESTRAIN ACCESS EASEMENT	2023007419	JANUARY 30, 2023
40	R568195	PACESETTER HOMES, LLC TO CITY OF LEANDER	1,912 SQUARE FEET RIGHT-OF-WAY TRACT	2018012839	FEBRUARY 15, 2018
41	R568195	PACESETTER HOMES, LLC TO CITY OF LEANDER	10' WIDE PUBLIC UTILITY EASEMENT, PEDESTRIAN ACCESS EASEMENT AND LANDSCAPE EASEMENT	2018012839	FEBRUARY 15, 2018
42	R547683	MERITAGE HAMES OF TEXAS, LLC TO CITY OF LEANDER	10' WIDE (0.075 ACRE) PUBLIC UTILITY EASEMENT	2016026419	MARCH 31, 2016
43	R547704	MERITAGE HAMES OF TEXAS, LLC TO CITY OF LEANDER	10' WIDE (0.096 ACRE) PUBLIC UTILITY EASEMENT	2016026419	MARCH 31, 2016
44	R482693	GREGORY L. DILL AS INDEPENDENT EXECUTOR OF THE ESTATE OF LINNIE LUCILLE DILL, DECEASED TO CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF RIGHT-OF-WAY (0.031 ACRE)	2022057632	MAY 09, 2022
45	R482693	GREGORY L. DILL AS INDEPENDENT EXECUTOR OF THE ESTATE OF LINNIE LUCILLE DILL, DECEASED TO CITY OF LEANDER, TEXAS	20' WIDE (0.065 ACRE) SIDEWALK EASEMENT AND PUBLIC UTILITY EASEMENT	2022057633	MAY 09, 2022
46	R031373	LAKELINE CHURCH INC. (KNOWN AS LIFE CHURCH, INC) TO THE CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF RIGHT-OF-WAY (0.183 ACRE)	2020154711	DECEMBER 07, 2020
47	R031373	LAKELINE CHURCH INC. (KNOWN AS LIFE CHURCH, INC) TO CITY OF LEANDER	20' WIDE (0.314 ACRE) SIDEWALK EASEMENT AND PUBLIC UTILITY EASEMENT	2020154712	DECEMBER 07, 2020
48	R502299	GENERATION MINISTRIES, INC. TO THE CITY OF LEANDER, TEXAS	SPECIAL WARRANTY DEED DEDICATION OF RIGHT-OF-WAY (0.023 ACRE)	2020092095	AUGUST 11, 2020
49	R502299	GENERATION MINISTRIES, INC. TO CITY OF LEANDER	20' WIDE (0.028 ACRE) SIDEWALK EASEMENT AND PUBLIC UTILITY EASEMENT	2020092094	AUGUST 11, 2020
50	N/A	CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY (CTRMA)	PERMIT TO CONSTRUCT ACCESS DRIVEWAY FACILITIES ON HIGHWAY RIGHT OF WAY	APPLICATION - PERMIT -	APPLICATION - MARCH 28, 2023 PERMIT -

Walker Partners
engineers ★ surveyors

ATTACHMENT D:

FACTORS AFFECTING SURFACE WATER QUALITY

ATTACHMENT D:

Factors Affecting Surface Water Quality

The 19.10-acre site drains to Block House Creek then eventually to Brushy Creek.

Temporary factors affecting surface water quality include:

- Hydrocarbon based residues from construction activity
- Silt

Permanent factors affecting surface water quality include:

- Litter from upstream and surrounding communities
- Natural sediment runoff
- Fertilizers and pesticides from landscape maintenance
- Oils and greases produced by asphalt paving and vehicular emissions

Three Contech Jellyfish filter vaults will be used as water quality Best Management Practices (BMPs) for this project.

Walker Partners
engineers ★ surveyors

ATTACHMENT E:

VOLUME AND CHARACTER OF STORMWATER

ATTACHMENT E:

Volume and Character of Stormwater

It is expected with the increase in impervious cover with this development, pollutants which could potentially drain into the stormwater runoff may increase. These most likely contaminants are included in Contributing Zone Plan Application Attachment D.

The site proposed grading and drainage plans incorporate three Contech Jellyfish filter vaults and four (4) detention ponds.

The stormwater quality for the site was determined using “Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices”. The TCEQ TSS Removal Calculations are attached. Please refer to Contributing Zone Plan Application Attachment K. Results:

	Basin A	Basin C	Basin D
Required TSS Removal for Site (lbs)	2,820	244	244

Stormwater quality calculations are based on the drainage areas specific to the proposed improvements and include offsite drainage areas. Please refer to Sheets C300, C301, and C302 for the Drainage Area Maps and calculations.

Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: Raider Way
Date Prepared: 3/23/2023

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: $L_M = 27.2(A_N \times P)$

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = 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 * =	19.10	acres
Predevelopment impervious area within the limits of the plan * =	6.63	acres
Total post-development impervious area within the limits of the plan* =	10.72	acres
Total post-development impervious cover fraction * =	0.56	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	3560	lbs.
Number of drainage basins / outfalls areas leaving the plan area =	4	

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

Drainage Basin/Outfall Area No. =	A	
Total drainage basin/outfall area =	11.81	acres
Predevelopment impervious area within drainage basin/outfall area =	3.54	acres
Post-development impervious area within drainage basin/outfall area =	6.78	acres
Post-development impervious fraction within drainage basin/outfall area =	0.57	
$L_{M\ THIS\ BASIN}$ =	2820	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	JF	abbreviation
Removal efficiency =	44.1	percent

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:
$LR = (\text{BMP efficiency}) \times P \times (A_I \times 34.6 + A_P \times 0.54)$

A_C = Total On-Site drainage area in the BMP catchment area
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_C =	11.21	acres
A_I =	6.35	acres
A_P =	4.86	acres
L_R =	3133	lbs.

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

Desired $L_{M\ THIS\ BASIN}$ =	2820	lbs.
F =	0.900	

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area.

Offsite area draining to BMP =	0.00	acres
Offsite impervious cover draining to BMP =	0.00	acres

Calculations from RG-348
Pages Section 3.2.22

Rainfall Intensity =	1.10	inches per hour
Effective Area =	5.86	acres
Cartridge Length =	54	inches
Peak Treatment Flow Required =	6.50	cubic feet per second

7. Jellyfish

Designed as Required in RG-348
Section 3.2.22

Flow Through Jellyfish Size	**Vault**	
Jellyfish Size for Flow-Based Configuration =	JFPD0816-33-7	
Jellyfish Treatment Flow Rate =	6.50	cfs

Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: Raider Way
Date Prepared: 3/23/2023

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: $L_M = 27.2(A_N \times P)$

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = 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 * =	19.10	acres
Predevelopment impervious area within the limits of the plan * =	6.63	acres
Total post-development impervious area within the limits of the plan* =	10.72	acres
Total post-development impervious cover fraction * =	0.56	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	3560	lbs.
Number of drainage basins / outfalls areas leaving the plan area =	4	

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

Drainage Basin/Outfall Area No. = C

Total drainage basin/outfall area =	3.82	acres
Predevelopment impervious area within drainage basin/outfall area =	1.68	acres
Post-development impervious area within drainage basin/outfall area =	1.96	acres
Post-development impervious fraction within drainage basin/outfall area =	0.51	
$L_{M\ THIS\ BASIN}$ =	244	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	JF	abbreviation
Removal efficiency =	12.3	percent

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:
$LR = (BMP\ efficiency) \times P \times (A_I \times 34.6 + A_P \times 0.54)$

A_C = Total On-Site drainage area in the BMP catchment area
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_C =	3.82	acres
A_I =	1.96	acres
A_P =	1.86	acres
L_R =	271	lbs.

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

Desired $L_{M\ THIS\ BASIN}$ =	244	lbs.
F =	0.90	

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area.

Offsite area draining to BMP =	0.00	acres
Offsite impervious cover draining to BMP =	0.00	acres

Calculations from RG-348
Pages Section 3.2.22

Rainfall Intensity =	1.10	inches per hour
Effective Area =	1.82	acres
Cartridge Length =	54	inches
Peak Treatment Flow Required =	2.02	cubic feet per second

7. Jellyfish
Designed as Required in RG-348
Section 3.2.22

Flow Through Jellyfish Size	**Vault**	
Jellyfish Size for Flow-Based Configuration =	JFPD0808-10-3	
Jellyfish Treatment Flow Rate =	2.05	cfs

0811 vault used to accommodate larger inlet and outlet pipe size. Cartridge deck and number of cartridges stay the same.

Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: Raider Way
Date Prepared: 3/23/2023

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: $L_M = 27.2(A_N \times P)$

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = 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 * =	19.10	acres
Predevelopment impervious area within the limits of the plan * =	6.63	acres
Total post-development impervious area within the limits of the plan* =	10.72	acres
Total post-development impervious cover fraction * =	0.56	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	3560	lbs.
Number of drainage basins / outfalls areas leaving the plan area =	4	

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

Drainage Basin/Outfall Area No. =	D	
Total drainage basin/outfall area =	1.35	acres
Predevelopment impervious area within drainage basin/outfall area =	0.58	acres
Post-development impervious area within drainage basin/outfall area =	0.86	acres
Post-development impervious fraction within drainage basin/outfall area =	0.64	
$L_{M\ THIS\ BASIN}$ =	244	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	JF	abbreviation
Removal efficiency =	28.2	percent

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:
$LR = (\text{BMP efficiency}) \times P \times (A_I \times 34.6 + A_P \times 0.54)$

A_C = Total On-Site drainage area in the BMP catchment area
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_C =	1.35	acres
A_I =	0.86	acres
A_P =	0.49	acres
L_R =	271	lbs.

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

Desired $L_{M\ THIS\ BASIN}$ =	244	lbs.
F =	0.900	

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area.

Offsite area draining to BMP =	0.00	acres
Offsite impervious cover draining to BMP =	0.00	acres

Calculations from RG-348
Pages Section 3.2.22

Rainfall Intensity =	1.10	inches per hour
Effective Area =	0.79	acres
Cartridge Length =	54	inches
Peak Treatment Flow Required =	0.87	cubic feet per second

7. Jellyfish
Designed as Required in RG-348
Section 3.2.22

Flow Through Jellyfish Size	Vault	
Jellyfish Size for Flow-Based Configuration =	JFPD0406-4-2	
Jellyfish Treatment Flow Rate =	0.89	cfs

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ATTACHMENT F:

SUITABILITY LETTER FROM AUTHORIZED AGENT

NOT APPLICABLE: OSSF IS NOT PROPOSED

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ATTACHMENT G:

ALTERNATIVE SECONDARY CONTAINMENT METHODS

NOT APPLICABLE: AST WITH AN ALTERNATIVE METHOD OF SECONDARY CONTAINMENT IS NOT PROPOSED

ATTACHMENT H:

AST CONTAINMENT STRUCTURE DRAWINGS

NOT APPLICABLE: AST IS NOT PROPOSED

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ATTACHMENT I:

20% OR LESS IMPERVIOUS COVER DECLARATION

NOT APPLICABLE: PROJECT IS NOT 20% OR LESS IMPERVIOUS COVER IS PROPOSED FOR THE SITE

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ATTACHMENT J:

BMPS FOR UPGRADIENT STORMWATER

ATTACHMENT J:

BMPs for Upgradient Stormwater

Under existing conditions, the runoff from the paved portions of the subject site drain overland flow and channel flow. The site drains partially to 183A Northbound Frontage Road and partially to the south end of Raider Way into grate inlets.

Under proposed conditions, existing paved areas are incorporated within the proposed site. The runoff from existing and proposed paved areas are conveyed by drainage channels and storm pipe into Contech Jellyfish filters and four (4) detention ponds.

Please reference Sheets C300, C301, and C302 for the Drainage Area Maps and calculations.

Silt fences, rock berms, tree protection, and inlet filters will be used as temporary Best Management Practices (BMPs) on the down gradient side of disturbed areas. Three Contech Jellyfish filter vaults will be used as Permanent Best Management Practices (BMPs) per TCEQ Edwards Aquifer Protection Program guidelines. Please reference the Sheets C021-C030 for the Erosion and Sedimentation Control Plans.

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ATTACHMENT K:

BMPS FOR ON-SITE STORMWATER

Attachment K:

BMPs for On-site Stormwater

A combination of three Contech Jellyfish filter vaults are proposed for the development which will treat the 19.10-acres of the subject site. Everything was sized with a total impervious cover of 56.13%. The water quality controls have been designed per the City of Austin Drainage Criteria Manual and the Texas Commission on Environmental Qualities Technical Guidance Manual and will provide water quality for the proposed project. Calculations for the Jellyfish filters are included.

Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: Raider Way
Date Prepared: 3/23/2023

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: $L_M = 27.2(A_N \times P)$

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = 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 * =	19.10	acres
Predevelopment impervious area within the limits of the plan * =	6.63	acres
Total post-development impervious area within the limits of the plan* =	10.72	acres
Total post-development impervious cover fraction * =	0.56	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	3560	lbs.
Number of drainage basins / outfalls areas leaving the plan area =	4	

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

Drainage Basin/Outfall Area No. =	A	
Total drainage basin/outfall area =	11.81	acres
Predevelopment impervious area within drainage basin/outfall area =	3.54	acres
Post-development impervious area within drainage basin/outfall area =	6.78	acres
Post-development impervious fraction within drainage basin/outfall area =	0.57	
$L_{M\ THIS\ BASIN}$ =	2820	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	JF	abbreviation
Removal efficiency =	44.1	percent

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:
$LR = (\text{BMP efficiency}) \times P \times (A_I \times 34.6 + A_P \times 0.54)$

A_C = Total On-Site drainage area in the BMP catchment area
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_C =	11.21	acres
A_I =	6.35	acres
A_P =	4.86	acres
L_R =	3133	lbs.

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

Desired $L_{M\ THIS\ BASIN}$ =	2820	lbs.
F =	0.900	

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area.

Offsite area draining to BMP =	0.00	acres
Offsite impervious cover draining to BMP =	0.00	acres

Calculations from RG-348
Pages Section 3.2.22

Rainfall Intensity =	1.10	inches per hour
Effective Area =	5.86	acres
Cartridge Length =	54	inches
Peak Treatment Flow Required =	6.50	cubic feet per second

7. Jellyfish

Designed as Required in RG-348
Section 3.2.22

Flow Through Jellyfish Size	**Vault**	
Jellyfish Size for Flow-Based Configuration =	JFPD0816-33-7	
Jellyfish Treatment Flow Rate =	6.50	cfs

Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: Raider Way
Date Prepared: 3/23/2023

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: $L_M = 27.2(A_N \times P)$

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = 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 * =	19.10	acres
Predevelopment impervious area within the limits of the plan * =	6.63	acres
Total post-development impervious area within the limits of the plan* =	10.72	acres
Total post-development impervious cover fraction * =	0.56	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	3560	lbs.
Number of drainage basins / outfalls areas leaving the plan area =	4	

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

Drainage Basin/Outfall Area No. =	C	
Total drainage basin/outfall area =	3.82	acres
Predevelopment impervious area within drainage basin/outfall area =	1.68	acres
Post-development impervious area within drainage basin/outfall area =	1.96	acres
Post-development impervious fraction within drainage basin/outfall area =	0.51	
$L_{M\ THIS\ BASIN}$ =	244	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	JF	abbreviation
Removal efficiency =	12.3	percent

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:
$LR = (\text{BMP efficiency}) \times P \times (A_I \times 34.6 + A_P \times 0.54)$

A_C = Total On-Site drainage area in the BMP catchment area
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_C =	3.82	acres
A_I =	1.96	acres
A_P =	1.86	acres
L_R =	271	lbs.

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

Desired $L_{M\ THIS\ BASIN}$ =	244	lbs.
F =	0.90	

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area.

Offsite area draining to BMP =	0.00	acres
Offsite impervious cover draining to BMP =	0.00	acres

Calculations from RG-348
Pages Section 3.2.22

Rainfall Intensity =	1.10	inches per hour
Effective Area =	1.82	acres
Cartridge Length =	54	inches
Peak Treatment Flow Required =	2.02	cubic feet per second

7. Jellyfish
Designed as Required in RG-348
Section 3.2.22

Flow Through Jellyfish Size	**Vault**	
Jellyfish Size for Flow-Based Configuration =	JFPD0808-10-3	
Jellyfish Treatment Flow Rate =	2.05	cfs

0811 vault used to accommodate larger inlet and outlet pipe size. Cartridge deck and number of cartridges stay the same.

Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: Raider Way
Date Prepared: 3/23/2023

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: $L_M = 27.2(A_N \times P)$

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = 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 * =	19.10	acres
Predevelopment impervious area within the limits of the plan * =	6.63	acres
Total post-development impervious area within the limits of the plan* =	10.72	acres
Total post-development impervious cover fraction * =	0.56	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	3560	lbs.
Number of drainage basins / outfalls areas leaving the plan area =	4	

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

Drainage Basin/Outfall Area No. =	D	
Total drainage basin/outfall area =	1.35	acres
Predevelopment impervious area within drainage basin/outfall area =	0.58	acres
Post-development impervious area within drainage basin/outfall area =	0.86	acres
Post-development impervious fraction within drainage basin/outfall area =	0.64	
$L_{M\ THIS\ BASIN}$ =	244	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	JF	abbreviation
Removal efficiency =	28.2	percent

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:
$LR = (\text{BMP efficiency}) \times P \times (A_I \times 34.6 + A_P \times 0.54)$

A_C = Total On-Site drainage area in the BMP catchment area
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_C =	1.35	acres
A_I =	0.86	acres
A_P =	0.49	acres
L_R =	271	lbs.

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

Desired $L_{M\ THIS\ BASIN}$ =	244	lbs.
F =	0.900	

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area.

Offsite area draining to BMP =	0.00	acres
Offsite impervious cover draining to BMP =	0.00	acres

Calculations from RG-348
Pages Section 3.2.22

Rainfall Intensity =	1.10	inches per hour
Effective Area =	0.79	acres
Cartridge Length =	54	inches
Peak Treatment Flow Required =	0.87	cubic feet per second

7. Jellyfish
Designed as Required in RG-348
Section 3.2.22

Flow Through Jellyfish Size	Vault	
Jellyfish Size for Flow-Based Configuration =	JFPD0406-4-2	
Jellyfish Treatment Flow Rate =	0.89	cfs

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ATTACHMENT L:

BMPS FOR SURFACE STREAMS

ATTACHMENT L:

BMPs for Surface Streams

To limit discharge of silt and pollutants during construction, temporary silt fencing will be placed on the down gradient side of disturbed areas. Two stabilized construction entrances and concrete washouts shall be constructed to limit the amount of silt and pollutants tracked offsite by construction vehicular activity.

Per TCEQ Edwards Aquifer Protection Program guidelines, three permanent onsite Contech Jellyfish filters will be placed to remove pollutants from the onsite stormwater runoff before the water eventually reaches Block House Creek then Brushy Creek.

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ATTACHMENT M:

CONSTRUCTION PLANS

ATTACHMENT M:

Construction Plans

Construction plans have been included with this application.

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ATTACHMENT N:

INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

CONTECH JELLYFISH FILTERS

The primary purpose of the Jellyfish® Filter is to capture and remove pollutants from stormwater runoff. As with any filtration system, these pollutants must be removed to maintain the filter's maximum treatment performance. Regular inspection and maintenance are required to insure proper functioning of the system.

Maintenance frequencies and requirements are site specific and vary depending on pollutant loading. Additional maintenance activities may be required in the event of non-storm event runoff, such as base-flow or seasonal flow, an upstream chemical spill or due to excessive sediment loading from site erosion or extreme runoff events. It is a good practice to inspect the system after major storm events.

Inspection activities are typically conducted from surface observations and include:

- Observe if standing water is present
- Observe if there is any physical damage to the deck or cartridge lids
- Observe the amount of debris in the Maintenance Access Wall (MAW)

Maintenance activities typically include:

- Removal of oil, floatable trash and debris
- Removal of collected sediments
- Rinsing and re-installing the filter cartridges
- Replace filter cartridge tentacles, as needed

Inspection:

Inspection Timing

Inspection of the Jellyfish Filter is key in determining the maintenance requirements for, and to develop a history of the site's pollutant loading characteristics. In general, inspections should be performed at the times indicated below; or per the approved project stormwater quality documents (if applicable), whichever is more frequent.

1. Post-construction inspection is required prior to putting the Jellyfish Filter into service. All construction debris or construction-related sediment within the device must be removed, and any damage to system components repaired, before installing the filter cartridges.
2. A minimum of two inspections during the first year of operation to assess the sediment and floatable pollutant accumulation, and to ensure proper functioning of the system.
3. Inspection frequency in subsequent years is based on the inspection and maintenance plan developed in the first year of operation. Minimum frequency should be once per year.
4. Inspection is recommended after each major storm event.
5. Inspection is required immediately after an upstream oil, fuel or other chemical spill.

Inspection Procedure

The following procedure is recommended when performing inspections:

1. Provide traffic control measures as necessary.
2. Inspect the MAW for floatable pollutants such as trash, debris, and oil sheen.
3. Measure oil and sediment depth in several locations, by lowering a sediment probe through the MAW opening until contact is made with the floor of the structure. Record sediment depth, and presences of any oil layers.
4. Inspect cartridge lids. Missing or damaged cartridge lids to be replaced.
5. Inspect the MAW, cartridge deck, and backwash pool weir, for cracks or broken components. If damaged, repair is required.

Dry Weather Inspections

- Inspect the cartridge deck for standing water, and/or sediment on the deck.
- No standing water under normal operating conditions.
- Standing water inside the backwash pool, but not outside the backwash pool indicates that the filter cartridges need to be rinsed.
- Standing water outside the backwash pool may indicate a backwater condition caused by high water elevation in the receiving water body, or possibly a blockage in downstream infrastructure.
- Any appreciable sediment (≥1/16") accumulated on the deck surface should be removed.

Wet Weather Inspections

- Observe the rate and movement of water in the unit. Note the depth of water above deck elevation within the MAW.
- Less than 6 inches, flow should be exiting the cartridge lids of each of the draindown cartridges (i.e. cartridges located outside the backwash pool).
- Greater than 6 inches, flow should be exiting the cartridge lids of each of the draindown cartridges and each of the hi-flo cartridges (i.e. cartridges located inside the backwash pool), and water should be overflowing the backwash pool weir.
- 18 inches or greater and relatively little flow is exiting the cartridge lids and outlet pipe, this condition indicates that the filter cartridges are occluded with sediment and need to be rinsed.

Maintenance:

Maintenance Requirements

Required maintenance for the Jellyfish Filter is based upon results of the most recent inspection, historical maintenance records, or the site specific water quality management plan; whichever is more frequent. In general, maintenance requires some combination of the following:

1. Sediment removal for depths reaching 12 inches or greater, or within 3 years of the most recent sediment cleaning, whichever occurs sooner.
2. Floatable trash, debris, and oil removal.
3. Deck cleaned and free from sediment.
4. Filter cartridges rinsed and re-installed as required by the most recent inspection results, or within 12 months of the most recent filter rinsing, whichever occurs sooner.
5. Replace tentacles if rinsing does not restore adequate hydraulic capacity, remove accumulated sediment, or if damaged or missing. It is recommended that tentacles should remain in service no longer than 5 years before replacement.
6. Damaged or missing cartridge deck components must be repaired or replaced as indicated by results of the most recent inspection.
7. The unit must be cleaned out and filter cartridges inspected immediately after an upstream oil, fuel, or chemical spill. Filter cartridge tentacles should be replaced if damaged or compromised by the spill.

Maintenance Procedure

The following procedures are recommended when maintaining the Jellyfish Filter:

1. Provide traffic control measures as necessary.
2. Open all covers and hatches. Use ventilation equipment as required, according to confined space entry procedures.
3. Caution: Dropping objects onto the cartridge deck may cause damage.
4. Perform Inspection Procedure prior to maintenance activity.
5. To access the cartridge deck for filter cartridge service, descend the ladder and step directly onto the deck. Caution: Do not step onto the maintenance access wall (MAW) or backwash pool weir, as damage may result. Note that the cartridge deck may be slippery.
6. Maximum weight of maintenance crew and equipment on the cartridge deck not to exceed 450 lbs.

Filter Cartridge Removal

1. Remove a cartridge lid.
2. Remove cartridges from the deck using the lifting loops in the cartridge head plate. Rope or a lifting device (available from Contech) should be used. Caution: Should a snag occur, do not force the cartridge upward as damage to the tentacles may result. Wet cartridges typically weigh between 100 and 125 lbs.
3. Replace and secure the cartridge lid on the exposed empty receptacle as a safety precaution. Contech does not recommend exposing more than one empty cartridge receptacle at a time.

Filter Cartridge Rinsing

1. Remove all 11 tentacles from the cartridge head plate. Take care not to damage or break the plastic threaded nut or connector.
2. Position tentacles in a container (or over the MAW), with the threaded connector (open end) facing down, so rinse water is flushed through the membrane and captured in the container.
3. Using the Jellyfish rinse tool (available from Contech) or a low-pressure garden hose sprayer, direct water spray onto the tentacle membrane, sweeping from top to bottom along the length of the tentacle. Rinse until all sediment is removed from the membrane. Caution: Do not use a high pressure sprayer or focused stream of water on the membrane. Excessive water pressure may damage the membrane.
4. Collected rinse water is typically removed by vacuum hose.
5. Reattach tentacles to cartridge head plate. Reuse O-rings and nuts, ensuring proper placement on each tentacle.

Cleaning Procedure

1. Perform vacuum cleaning of the Jellyfish Filter only after filter cartridges have been removed from the system. Access the lower chamber for vacuum cleaning only through the maintenance access wall (MAW) opening, being careful not to damage the flexible plastic separator skirt that is attached to the underside of the deck. The separator skirt surrounds the filter cartridge zone, and could be torn if contacted by the wand. Do not lower the vacuum wand through a cartridge receptacle, as damage to the receptacle will result.
2. Vacuum floatable trash, debris, and oil, from the MAW opening. Alternatively, floatable solids may be removed by a net or skimmer.
3. Pressure wash cartridge deck and receptacles to remove all sediment and debris. Sediment should be rinsed into the sump area. Take care not to flush rinse water into the outlet pipe.
4. Remove water from the sump area. Vacuum or pump equipment should only be introduced through the MAW.
5. Remove the sediment from the bottom of the unit through the MAW opening.
6. For larger diameter Jellyfish Filter manholes (≥8-ft) and vaults without an MAW opening, complete sediment removal may be facilitated by removing a cartridge lid from an empty receptacle and inserting a jetting wand (not a vacuum wand) through the receptacle. Use the sprayer to rinse loosened sediment toward the vacuum hose in the MAW opening, being careful not to damage the receptacle.
7. After the unit is clean, re-fill the lower chamber with water if required by the local jurisdiction, and re-install filter cartridges.
8. Dispose of sediment, floatable trash and debris, oil, spent tentacles, and water according to local regulatory requirements.

Chemical Spills

Caution: If a chemical spill has been captured, do not attempt maintenance. Immediately contact the local hazard response agency and contact Contech.

Related Maintenance Activities

Jellyfish units are often just one of many structures in a more comprehensive stormwater drainage and treatment system.

In order for maintenance of the Jellyfish filter to be successful, it is imperative that all other components be properly maintained. The maintenance and repair of upstream facilities should be carried out prior to Jellyfish maintenance activities.

In addition to considering upstream facilities, it is also important to correct any problems identified in the drainage area. Drainage area concerns may include: erosion problems, heavy oil loading, and discharges of inappropriate materials.

Material Disposal

The accumulated sediment found in stormwater treatment and conveyance systems must be handled and disposed of in accordance with regulatory protocols. It is possible for sediments to contain measurable concentrations of heavy metals and organic chemicals (such as pesticides and petroleum products). Areas with the greatest potential for high pollutant loading include industrial areas and heavily traveled roads. Sediments and water must be disposed of in accordance with all applicable waste disposal regulations. When scheduling maintenance, consideration must be made for the disposal of solid and liquid wastes. This typically requires coordination with a local landfill for solid waste disposal. For liquid waste disposal a number of options are available including a municipal vacuum truck decant facility, local waste water treatment plant or on-site treatment and discharge.

Repair:

Filter Cartridge Replacement

1. Cartridges should be installed after the deck has been cleaned. It is important that the receptacle surfaces be free from grit and debris.
2. If rinsing is ineffective in removing sediment from the tentacles, or if tentacles are damaged, provisions must be made to replace the spent or damaged tentacles with new tentacles. Contact Contech to order replacement tentacles.
3. Lower filter cartridge to the cartridge deck. Remove cartridge lid from deck and carefully lower the filter cartridge into the receptacle until head plate gasket is seated squarely in receptacle. Caution: Should a snag occur when lowering the cartridge into the receptacle, do not force the cartridge downward; damage may occur.
4. Replace the cartridge lid and check ft before completing rotation to a firm hand-tight attachment.

If necessary, Retrofit:

Not necessary.

Record Keeping Procedures:

Project superintendent shall have a log for entering site inspections. Results of inspections, including damage and any recommended remedial action, shall be noted along with inspection personnel data and date of completion of any action. An example of a Jellyfish Filter Inspection and Maintenance Log is attached. Each log shall be made available for review by TCEQ, if requested.

Jellyfish Filter Inspection and Maintenance Log

Owner:	City of Leander			Jellyfish Model No:		
Location:				GPS Coordinates:		
Lande Use:	Commercial:		Industrial:		Service Station:	
	Roadway/Highway:	X	Airport:		Residential:	

Date/Time:						
Inspector:						
Maintenance Contractor:						
Visible Oil Present: (Y/N)						
Oil Quantity Removed:						
Floatable Debris Present: (Y/N)						
Floatable Debris Removed: (Y/N)						
Water Depth in Backwash Pool						
Draindown Cartridges externally rinsed and recommissioned: (Y/N)						
New tentacles put on Cartridges: (Y/N)						
Hi-Flo Cartridges externally rinsed and recommissioned: (Y/N)						
New tentacles put on Hi-Flo Cartridges: (Y/N)						
Sediment Depth Measured: (Y/N)						
Sediment Depth (inches or mm):						
Sediment Removed: (Y/N)						
Cartridge Lids intact: (Y/N)						
Observed Damage:						
Comments:						

STATE OF TEXAS
DAVID P SMITH
56239
REGISTERED
PROFESSIONAL ENGINEER
3-21-23

Engineer who designed the permanent BMPs and measures: David P Smith

An amended copy of this document will be provided to TCEQ within thirty (30) days of any changes in the following information:

Owner or responsible party: Tony Bettis, PMP
Address: 201 N Brushy St., Leander, TX 78641
Telephone: 512-528-2732
Signature of Responsible Party: Tony Bettis

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ATTACHMENT O:

PILOT-SCALE FIELD TESTING PLAN

NOT APPLICABLE: BMPS ARE BASED ON COMPLYING WITH THE EDWARDS AQUIFER RULES: TECHNICAL GUIDANCE FOR BMPS

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ATTACHMENT P:

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

ATTACHMENT P:

Measures for Minimizing Surface Stream Contamination

To limit discharge of silt and pollutants during construction, temporary silt fencing will be placed on the down gradient side of disturbed areas. Two stabilized construction entrances and concrete washouts shall be constructed to limit the amount of silt and pollutants tracked offsite by construction vehicular activity. The four (4) detention ponds will control the peak runoff rate for the 2-year, 10-year, 25-year, and 100-year storms to the pre-development flow.

Per TCEQ Edwards Aquifer Protection Program guidelines, three permanent onsite Contech Jellyfish filters will be placed to remove pollutants from the onsite stormwater runoff before the water eventually reaches Block House Creek then Brushy Creek.

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SECTION 2:

TEMPORARY STORMWATER SECTION (TCEQ-0602)

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: David P. Smith, P.E., CFM

Date: 3-21-23

Signature of Customer/Agent:

David P Smith

Regulated Entity Name: Raider Way Road Improvements

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: N/A

   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. N/A 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: Block House Creek and Brushy Creek

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:

- [X] 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.
- [X] 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.
- [X] A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
- [X] 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. [X] 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.
   - [X] There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. [X] **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. [X] **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.

[X] 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.

    [X] N/A

12. [X] **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. [X] 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. [X] 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. [X] 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. [X] 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. [X] **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. [X] 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. [X] Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. [X] All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.

21. [X] 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. [X] 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.

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ATTACHMENT A:

SPILL RESPONSE ACTIONS

ATTACHMENT A:

Spill Response Actions

In the event of accidental spills of hazardous materials or hydrocarbons, the contractor will be required to maintain a stockpile of sand material in the construction staging area. This sand material will be used to provide a dike to contain large spills and to provide an absorbent material that can be disposed of off the Edwards Aquifer Recharge, Contributing and Transition Zones during the cleanup process. The contractor will be required to contact the owner, who will notify the Texas Commission on Environmental Quality (TCEQ) in the event of a spill. It is required that all contaminated soils be removed from the project site and disposed of in accordance with applicable regulations of the Edwards Aquifer Recharge, Contributing and Transition Zones. Below are measures outlined by the TCEQ for spill prevention and response.

Education

1. Be aware that different materials pollute in different amounts. Make sure that each employee knows what a “significant spill” is for each material they use, and what is the appropriate response for “significant” and “insignificant” spills. Employees should also be aware of when spill must be reported to the TCEQ. Additional information is available in 30 TAC 327.4 and 40 CFR 302.4.
2. Educate employees and subcontractors on potential dangers to humans and the public.
3. Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).
4. Establish a continuing education program to indoctrinate new employees.
5. Have contractor’s superintendent or representative oversee and enforce proper spill prevention and control measures.

General Measures

1. To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
2. Store hazardous materials and wastes in covered containers and protect from vandalism.
3. Place a stockpile of spill cleanup materials where it will be readily accessible.
4. Train employees in spill prevention and cleanup.
5. Designate responsible individuals to oversee and enforce control measures.
6. Spills should be covered and protected from storm water run-on during rainfall to the extent that it doesn't compromise cleanup activities.
7. Do not bury or wash spills with water.
8. Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.
9. Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
10. Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
11. Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
12. Keep waste storage areas clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

Cleanup

1. Clean up leaks and spills immediately.
2. Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
3. Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

Minor Spills

1. Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.
2. Use absorbent materials on small spills rather than hosing down or burying the spill.
3. Absorbent materials should be promptly removed and disposed of properly.
4. Follow the practice below for a minor spill

a. Contain the spread of the spill.

b. Recover spilled materials.

c. Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills

Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities.

Spills should be cleaned up immediately:

1. Contain spread of the spill.
2. Notify the project foreman immediately.
3. If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
4. If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
5. If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

1. Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
2. For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at 1-800-424-8802.
3. Notification should first be made by telephone and followed up with a written report.
4. The services of a spills contractor or a Hazmat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
5. Other agencies which may need to be consulted including, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.
6. More information on spill rules and appropriate responses is available on the TCEQ website at: https://www.tceq.texas.gov/response

Vehicle and Equipment Maintenance

1. If maintenance must occur on-site, use a designated area and a secondary containment, located away from drainage courses, to prevent the run-on of storm water and the runoff of spills.
2. Regularly inspect onsite vehicles and equipment for leaks and repair immediately
3. Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
4. Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
5. Place drip pans or absorbent materials under paving equipment when not in use.
6. Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
7. Promptly transfer used fluids to the proper waste or recycling drums. Don’t leave full drip pans or other open containers lying around.

8. Oil filters disposed of in trashcans or dumpsters can leak oil and pollute storm water. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.
9. Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

1. If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the run-on of storm water and the runoff of spills.
2. Discourage “topping off” of fuel tanks.
3. Always use secondary containment, such as a drain pan, when fueling to catch spills/ leaks.

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ATTACHMENT B:

POTENTIAL SOURCES OF CONTAMINATION

ATTACHMENT B:

Potential Sources of Contamination

Potential Sources of Pollutants during construction could include:

1. Soil erosion
2. Construction vehicle and equipment oil, grease, fuel and hydraulic fluid drippings
3. Litter, debris, and material wrappings
4. Portable toilet spills

Potential Sources of Pollutants after construction could include:

1. Vehicle, road, and driveway pollutants
2. Litter
3. Landscaping pesticides, herbicides, and fertilizers

Please refer to Temporary Stormwater Section Attachment A: Spill Response Actions for preventative and responsive actions to treat potential sources of contamination.

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ATTACHMENT C:

SEQUENCE OF MAJOR ACTIVITIES

ATTACHMENT C:

Sequence of Major Activities

Major Construction Activities which will disturb soils for major portions of the site include grubbing, excavation, grading, stormwater, and duct bank utilities. Temporary controls to be inspected and maintained weekly and prior to any anticipated rainfall event, and after rainfall events as needed. The contractor is responsible for implementing and maintaining the Storm Water Pollution Prevention Plan. All disturbed soil areas shall be re-vegetated.

Major Construction Activities and Sequencing

The major construction activities for this project will include and be sequenced as follows:

1. Install Temporary Best Management Practices which shall consist of silt fencing, tree protection fencing, rock berms, two concrete washouts, and two stabilized construction entrances. (14.54 AC, total disturbed area)

2. Begin demolition, clearing, grubbing, and construction activities. Dispose of all demolished material to an approved off-site facility. (14.54 AC, total disturbed area)

3. Initial grading operation to achieve ponds shape and sizing. (1.57 AC)

4. Begin rough cut for utilities and install proposed utilities. (14.54 AC, total disturbed area)

5. Construction of Phase 1 Southbound Raider Way (Sta. 25+00 to Crystal Falls Parkway) & Eastbound East Woodview Drive (US 183A Service Road to Sta. 15+00), curb and gutter, driveways, sidewalk, and striping and signage. (4.57 AC)

6. Construction of Phase 2 Roundabout, include Raider Way (Sta. 25+00 to End), E. Woodview Drive (Sta. 15+00 to End) & PR 921 including the intersection of Raider Way & Crystal Falls Parkway pavement, curb and gutter, driveways, sidewalk, and striping and signage. (3.51 AC)

7. Construction of Phase 3 Northbound Raider Way (Crystal Falls Parkway to Sta. 25+00) & Westbound E. Woodview Drive (Sta. 15+00 to US 183A Service Road) including US 183A Service Road Turning Lane pavement, curb and gutter, utility tie in, island, pavement repairs made, and striping and signage. (5.53 AC)

8. Final grading of ponds. (1.57 AC)

9. Install Permanent Best Management Practices: Contech Jellyfish filters. (14.54 AC, total disturbed area)

10. Complete permanent erosion control and restoration of site vegetation. (14.54 AC, total disturbed area)

11. Site inspection and completion.

See the Sheet C006 Project Layout, Sheet C021-C030 Erosion and Sedimentation Control Plans, and Sheets C900-C933 Construction Sequence Plans for details of sequencing and installation of temporary measures.

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ATTACHMENT D:

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

ATTACHMENT D:

Temporary Best Management Practices and Measures

The following Temporary Best Management Practices (BMPs) and measures will be utilized during construction and remain in place until final site stabilization:

1. Silt fencing, rock berms, tree protection fencing, two concrete washouts, and two stabilized construction entrances will be used in accordance with the latest edition TCEQ Technical Guidance Manual details and criteria, to prevent pollution of surface water and groundwater that originates both up-gradient and on-site.
2. The Temporary Best Management Practices shall be in place before the first phase of construction for the public road improvements are to begin. The fencing will be installed downstream of any disturbed areas. The locations of the silt fence were based on the criteria to limit the drainage area of disturbed soil to 0.25 acres per 100 linear feet of fencing.
3. Silt fences will intercept any pollutants from entering the surfaces waters of Block House Creek and eventually Brushy Creek. The locations of the silt fences were based on the criteria to limit the drainage area of disturbed soil to less than 5 acres. The placement of the temporary measures was based on the layout of streets and storm drains.
4. The temporary BMP design for the site has been planned to prevent construction runoff and pollutants from directly entering surface streams, sensitive features, and the Edwards Aquifer.

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ATTACHMENT E:

REQUEST TO TEMPORARILY SEAL A FEATURE

NOT APPLICABLE: NOT SEALING A FEATURE

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ATTACHMENT F:

STRUCTURAL PRACTICES

ATTACHMENT F:

Structural Practices

The following structural practices will be installed prior to construction of the project and in accordance with the "Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices" (TCEQ RG-348).

1. Installation of silt fences.
2. Installation of a stabilized construction entrance/exit to minimize the tracking of mud and debris offsite by vehicles.
3. Installation of construction staging areas and concrete washout pit.

Please refer to Sheet C021-C030 Erosion and Sedimentation Control Plans.

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ATTACHMENT G:

DRAINAGE AREA MAP

ATTACHMENT G:

Drainage Area Map

Please refer to Sheets C300, C301, and C302 for the Drainage Area Maps and calculations.

ATTACHMENT H:

TEMPORARY SEDIMENT POND(S) PLANS AND CALCULATIONS

NOT APPLICABLE: NO TEMPORARY SEDIMENT POND OR BASIN

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ATTACHMENT I:

INSPECTION AND MAINTENANCE FOR BMPS

ATTACHMENT I:

Inspection and Maintenance for BMPs

Inspection

During construction, designated and qualified person(s) should inspect the Pollution Control Measures every seven (7) days and after each rainfall event. An inspection report that summarizes the scope of the inspection, names and qualifications of personnel conducting the inspection, date of the inspection, major observations and actions that will be taken as a result of the inspection. These inspection reports should be kept with the TPDES data for the project. The general contractor will be responsible to review and reference sections 1.3 and 1.4 of "Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices" (TCEQ RG-348) for erosion and sedimentation control and maintenance as applicable.

Maintenance

Construction Entrance, Concrete Washout, and Construction Staging Area Maintenance

1. The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or clean out of any measures used to trap sediment.
2. All sediment spilled, dropped, washed or tracked on to public right-of-ways should be removed immediately be the contractor.
3. When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-ways.
4. When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
5. All sediment should be prevented from entering any storm drain, ditch or watercourse by using approved methods.

Silt Fence Maintenance

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

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ATTACHMENT J:

SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

ATTACHMENT J:

Schedule of Interim and Permanent Soil Stabilization Practices

Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently ceased is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable. Below are guidelines from TCEQ for the installation of sod to stabilized exposed areas.

Materials:

- Hydraulic Mulches-
  Wood fiber mulch can be applied alone or as a component of hydraulic matrices. Wood fiber applied alone is typically applied at the rate of 2,000 to 4,000 lb/acre. Wood fiber mulch is manufactured from wood or wood waste from lumber mills or from urban sources.
- Hydraulic Matrices-
  Hydraulic matrices include a mixture of wood fiber and acrylic polymer or other tackifier as binder. Apply as a liquid slurry using a hydraulic application machine (i.e., hydro seeder) at the following minimum rates, or as specified by the manufacturer to achieve complete coverage of the target area: 2,000 to 4,000 lb/acre wood fiber mulch, and 5 to 10% (by weight) of tackifier (acrylic copolymer, guar, psyllium, etc.)
- Bonded Fiber Matrix-
  Bonded fiber matrix (BFM) is a hydraulically applied system of fibers and adhesives that upon drying forms an erosion resistant blanket that promotes vegetation, and prevents soil erosion. BFMs are typically applied at rates from 3,000 lb/acre to 4,000 lb/acre based on the manufacturer's recommendation. A biodegradable BFM is composed of materials that are 100% biodegradable. The binder in the BFM should also be biodegradable and should not dissolve or disperse upon re-wetting. Typically, biodegradable BFMs should not be applied immediately before, during or immediately after rainfall if the soil is saturated. Depending on the product, BFMs typically require 12 to 24 hours to dry and become effective.

Installation:

1. Prior to application, roughen embankment and fill areas by rolling with a crimping or punching type roller or by track walking. Track walking shall only be used where other methods are impractical.
2. To be effective, hydraulic matrices require 24 hours to dry before rainfall occurs.
3. Avoid mulch over spray onto roads, sidewalks, drainage channels, existing vegetation, etc.

Inspection and Maintenance Guidelines:

1. Mulched areas should be inspected weekly and after each rain event to locate and repair any damage.
2. Areas damaged by storms or normal construction activities should be regarded and hydraulic mulch reapplied as soon as practical.

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SECTION 3:

COPY OF NOTICE OF INTENT (NOI)

TCEQ Office Use Only
Permit No:
CN:
RN:

Notice of Intent (NOI) for an Authorization for Stormwater Discharges Associated with Construction Activity under TPDES General Permit TXR150000

IMPORTANT INFORMATION

Please read and use the General Information and Instructions prior to filling out each question in the NOI form.

Use the NOI Checklist to ensure all required information is completed correctly. **Incomplete applications delay approval or result in automatic denial.**

Once processed your permit authorization can be viewed by entering the following link into your internet browser: http://www2.tceq.texas.gov/wq_dpa/index.cfm or you can contact TCEQ Stormwater Processing Center at 512-239-3700.

ePERMITS

Effective September 1, 2018, this paper form must be submitted to TCEQ with a completed electronic reporting waiver form (TCEQ-20754).

To submit an NOI electronically, enter the following web address into your internet browser and follow the instructions: https://www3.tceq.texas.gov/steers/index.cfm

APPLICATION FEE AND PAYMENT

The application fee for submitting a paper NOI is $325. The application fee for electronic submittal of a NOI through the TCEQ ePermits system (STEERS) is $225.

Payment of the application fee can be submitted by mail or through the TCEQ ePay system. The payment and the NOI must be mailed to separate addresses. To access the TCEQ ePay system enter the following web address into your internet browser: http://www.tceq.texas.gov/epay.

Provide your payment information for verification of payment:

- If payment was mailed to TCEQ, provide the following:
  - Check/Money Order Number: Click here to enter text.
  - Name printed on Check: Click here to enter text.
- If payment was made via ePay, provide the following:
  - Voucher Number: Click here to enter text.
  - A copy of the payment voucher is attached to this paper NOI form.

RENEWAL (This portion of the NOI is not applicable after June 3, 2018)

Is this NOI for a renewal of an existing authorization? ☐ Yes ☒ No

If Yes, provide the authorization number here: TXR15 Click here to enter text.

NOTE: If an authorization number is not provided, a new number will be assigned.

SECTION 1. OPERATOR (APPLICANT)

a) If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity? CN 600646012

(Refer to Section 1.a) of the Instructions)

b) What is the Legal Name of the entity (applicant) applying for this permit? (The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.)

City of Leander

c) What is the contact information for the Operator (Responsible Authority)?

Prefix (Mr. Ms. Miss): Ms.

First and Last Name: Emily Truman Suffix: P.E.

Title: City Engineer Credentials: City of Leander – City Engineer; Professional Engineer (P.E.)

Phone Number: 512-528-2797 Fax Number: Click here to enter text.

E-mail: etruman@leandertx.gov

Mailing Address: 201 N Brushy St.

City, State, and Zip Code: Leander, TX 78641

Mailing Information if outside USA:

Territory: Click here to enter text.

Country Code: Click here to enter text. Postal Code: Click here to enter text.

d) Indicate the type of customer:

☐ Individual	☐ Federal Government
☐ Limited Partnership	☐ County Government
☐ General Partnership	☐ State Government
☐ Trust	☒ City Government
☐ Sole Proprietorship (D.B.A.)	☐ Other Government
☐ Corporation	☐ Other: Click here to enter text
☐ Estate	

e) Is the applicant an independent operator? ☒ Yes ☐ No

(If a governmental entity, a subsidiary, or part of a larger corporation, check No.)

f) Number of Employees. Select the range applicable to your company.

☐ 0-20 ☒ 251-500

☐ 21-100 ☐ 501 or higher

☐ 101-250

g) Customer Business Tax and Filing Numbers: (**Required** for Corporations and Limited Partnerships. **Not Required** for Individuals, Government, or Sole Proprietors.)

State Franchise Tax ID Number: Click here to enter text

Federal Tax ID: Click here to enter text

Texas Secretary of State Charter (filing) Number: Click here to enter text

DUNS Number (if known): Click here to enter text

SECTION 2. APPLICATION CONTACT

Is the application contact the same as the applicant identified above?

☐ Yes, go to Section 3

☒ No, complete this section

Prefix (Mr. Ms. Miss): Mr.

First and Last Name: David P. Smith Suffix: P.E., CFM

Title: Client Manager Credential: Texas Professional Engineer; Certified Floodplain Manager

Organization Name: Walker Partners Engineers | Surveyors

Phone Number: 512-382-0021 Fax Number: Click here to enter text.

E-mail: dsmith@walkerpartners.com

Mailing Address: 804 Las Cimas Pkwy, Suite 150

Internal Routing (Mail Code, Etc.): Click here to enter text.

City, State, and Zip Code: Austin, TX 78746

Mailing information if outside USA:

Territory: Click here to enter text.

Country Code: Click here to enter text. Postal Code: Click here to enter text.

SECTION 3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

a) If this is an existing permitted site, what is the Regulated Entity Number (RN) issued to this site? RN Click here to enter text.

(Refer to Section 3.a) of the Instructions)

b) Name of project or site (the name known by the community where it's located): Raider Way Road Improvements

c) In your own words, briefly describe the type of construction occurring at the regulated site (residential, industrial, commercial, or other): Public road improvements

d) County or Counties (if located in more than one): Williamson

e) Latitude: 30.572672 Longitude: -97.8231025 (intersection of E. Woodview Drive & Raider Way)

f) Site Address/Location

If the site has a physical address such as 12100 Park 35 Circle, Austin, TX 78753, complete *Section A*.

If the site does not have a physical address, provide a location description in *Section B*. Example: located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1.

Section A:

Street Number and Name: Click here to enter text.

City, State, and Zip Code: Click here to enter text.

Section B:

Location Description: RAIDER WAY, FROM E. CRYSTAL FALLS PARKWAY TO 317 FT. NORTH OF E. WOODVIEW DRIVE; E. WOODVIEW DRIVE, FROM 183A NORTHBOUND FRONTAGE ROAD TO 323 FT. EAST OF RAIDER WAY.

City (or city nearest to) where the site is located: Leander

Zip Code where the site is located: 78641

SECTION 4. GENERAL CHARACTERISTICS

a) Is the project or site located on Indian Country Lands?

☐ Yes, do not submit this form. You must obtain authorization through EPA Region 6.

☒ No

b) Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources?

☐ Yes. Note: The construction stormwater runoff may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization through EPA Region 6.

☒ No

c) What is the Primary Standard Industrial Classification (SIC) Code that best describes the construction activity being conducted at the site? **1611**

d) What is the Secondary SIC Code(s), if applicable? Click here to enter text.

e) What is the total number of acres to be disturbed? 14.54

f) Is the project part of a larger common plan of development or sale?

☐ Yes

☒ No. The total number of acres disturbed, provided in e) above, must be 5 or more. If the total number of acres disturbed is less than 5, do not submit this form. See the requirements in the general permit for small construction sites.

g) What is the estimated start date of the project? June 2023

h) What is the estimated end date of the project? May 2025

i) Will concrete truck washout be performed at the site? ☒ Yes ☐ No

j) What is the name of the first water body(ies) to receive the stormwater runoff or potential runoff from the site? Block House Creek

k) What is the segment number(s) of the classified water body(ies) that the discharge will eventually reach? 1244A

l) Is the discharge into a Municipal Separate Storm Sewer System (MS4)?

☒ Yes ☐ No

If Yes, provide the name of the MS4 operator: City of Leander

Note: The general permit requires you to send a copy of this NOI form to the MS4 operator.

m) Is the discharge or potential discharge from the site within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, as defined in 30 TAC Chapter 213?

☒ Yes, complete the certification below.

☐ No, go to Section 5

I certify that the copy of the TCEQ-approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) that is included or referenced in the Stormwater Pollution Prevention Plan will be implemented. ☒ Yes

SECTION 5. NOI CERTIFICATION

a) I certify that I have obtained a copy and understand the terms and conditions of the Construction General Permit (TXR150000). ☒ Yes

b) I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas. ☒ Yes

c) I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed. ☒ Yes

d) I certify that a Stormwater Pollution Prevention Plan has been developed, will be implemented prior to construction and to the best of my knowledge and

belief is compliant with any applicable local sediment and erosion control plans, as required in the Construction General Permit (TXR150000). ☐ Yes

Note: For multiple operators who prepare a shared SWP3, the confirmation of an operator may be limited to its obligations under the SWP3, provided all obligations are confirmed by at least one operator.

SECTION 6. APPLICANT CERTIFICATION SIGNATURE

Operator Signatory Name: Emily Truman

Operator Signatory Title: City Engineer - City of Leander

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

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

Signature (use blue ink): _____ Date: 3/24/2023

SECTION 4:

AGENT AUTHORIZATION FORM (TCEQ-0599)

IF APPLICATION SUBMITTED BY AGENT

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

I Tony Bettis, PMP,
Print Name

City of Leander CIP Program Manager,
Title - Owner/President/Other

of Raider Way Road Improvements,
Corporation/Partnership/Entity Name

have authorized David P. Smith, P.E., CFM
Print Name of Agent/Engineer

of Walker Partners Engineers | Surveyors
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:

Tony Bettis
Applicant's Signature

3/23/2023
Date

THE STATE OF Texas §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Tony Bettis 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 23 day of March, 2023.

Lorraine B Eldred
NOTARY PUBLIC

LORRAINE B ELDRED
Notary Public
STATE OF TEXAS
ID# 124552760
My Comm. Exp. Jul. 23, 2024

Lorraine B Eldred
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: Jul 23, 2024

SECTION 5:

APPLICATION FEE FORM (TCEQ-0574)

CHECK PAYABLE TO THE "TEXAS COMMISSION ON ENVIRONMENTAL QUALITY"

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Raider Way Road Improvements
Regulated Entity Location: City of Leander
Name of Customer: Leander
Contact Person: Tony Bettis, PMP Phone: 512-528-2732
Customer Reference Number (if issued):CN 600646012
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
☐ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ San Antonio Regional Office
☐ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone ☒ Contributing Zone ☐ Transition Zone

Type of Plan	*Size*	*Fee Due*
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	19.10 Acres	$ 6,500
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	Each	$
Extension of Time	Each	$

Signature: Tony Bettis Date: 3/23/23

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

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

Organized Sewage Collection Systems and Modifications

Project	*Cost per Linear Foot*	*Minimum Fee-Maximum Fee*
Sewage Collection Systems	$0.50	$650 - $6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	*Cost per Tank or Piping System*	*Minimum Fee-Maximum Fee*
Underground and Aboveground Storage Tank Facility	$650	$650 - $6,500

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

SECTION 6:

CORE DATA FORM (TCEQ-10400)

TCEQ Core Data Form

TCEQ Use Only

For detailed instructions regarding completion of 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 600646012		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)

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

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

City of Leander

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 ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☐ 0-20 ☐ 21-100 ☐ 101-250 ☒ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☒ Yes ☐ No

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

☒ Owner ☒ Operator ☐ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:

P.O. Box 319

City	Leander	State	TX	ZIP	78646	ZIP + 4	

16. Country Mailing Information *(if outside USA)*

17. E-Mail Address *(if applicable)*
tbettis@leandertx.gov

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(512) 528-2732		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

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

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

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

Raider Way Road Improvements

23. Street Address of the Regulated Entity: *(No PO Boxes)*								
	City	Leander	State	TX	ZIP	78641	ZIP + 4	
24. County	Williamson							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	RAIDER WAY, FROM E. CRYSTAL FALLS PARKWAY TO 317 FT. NORTH OF E. WOODVIEW DRIVE; E. WOODVIEW DRIVE, FROM 183A NORTHBOUND FRONTAGE ROAD TO 323 FT. EAST OF RAIDER WAY.

26. Nearest City	State	Nearest ZIP Code
Leander	TX	78641

27. Latitude (N) In Decimal:			28. Longitude (W) In Decimal:		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	34	20.18	97	49	22.59

29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)
1611		23731	237310

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

Public roadway

34. Mailing Address:	P.O. Box 319							
	City	Leander	State	TX	ZIP	78646	ZIP + 4	

35. E-Mail Address:	tbettis@leandertx.gov

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(512) 528-2732		( ) -

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	☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	David P. Smith, P.E., CFM	41. Title:	Client Manager

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 382-0021		( ) -	dsmith@walkerpartners.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:	Walker Partners Engineers | Surveyors	Job Title:	Client Manager
Name*(In Print)* :	David P. Smith, P.E., CFM	Phone:	(512) 382-0021
Signature:	David P Smith	Date:	3-21-23