



MIGL
ENGINEERING
AND CONSULTING

EDWARDS AQUIFER CONTRIBUTING ZONE PLAN EXCEPTION (CZP-EXP)

GOOD SHEPHERD LUTHERAN CHURCH

**700 W. WHITESTONE BOULEVARD
CEDAR PARK, TEXAS 78613**

SITE LOCATED IN EDWARD'S AQUIFER CONTRIBUTING ZONE

Prepared for

Good Shepherd Lutheran Church
700 West Whitestone Boulevard
Cedar Park, Texas 78613

Prepared by

Migl Engineering and Consulting, PLLC
9600 Escarpment Boulevard, Suite 745-174
Austin, Texas 78749



09/08/2025

Project No. 0207.002
September 2025

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: Good Shepherd Lutheran Church					2. Regulated Entity No.: RN105743777				
3. Customer Name: Matthew Headley					4. Customer No.: N/A				
5. Project Type: (Please circle/check one)	New	Modification			Extension	Exception			
6. Plan Type: (Please circle/check one)	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential	Non-residential			8. Site (acres):			9.811	
9. Application Fee:	\$500.00		10. Permanent BMP(s):			Partial Sedimentation-Filtration			
11. SCS (Linear Ft.):	0		12. AST/UST (No. Tanks):			0			
13. County:	Williamson		14. Watershed:			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.)	--	--	<u>X</u>
Region (1 req.)	--	--	<u>X</u>
County(ies)	--	--	<u>X</u>
Groundwater Conservation District(s)	-- Edwards Aquifer Authority -- Barton Springs/ Edwards Aquifer -- Hays Trinity -- Plum Creek	-- Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	-- Austin -- Buda -- Dripping Springs -- Kyle -- Mountain City -- San Marcos -- Wimberley -- Woodcreek	-- Austin -- Bee Cave -- Pflugerville -- Rollingwood -- Round Rock -- Sunset Valley -- West Lake Hills	-- Austin <u>X</u> Cedar Park -- Florence -- Georgetown -- Jerrell -- Leander -- Liberty Hill -- Pflugerville -- Round Rock

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

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

Tammi Migl, P.E.

Print Name of Customer/Authorized Agent

9/25/2025

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):

Contributing Zone Exception Request Form

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 Exception Request Form** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Tammi Migl, P.E.

Date: 09/09/2025

Signature of Customer/Agent:



Regulated Entity Name: Good Shepherd Lutheran Church

Project Information

1. County: Williamson
2. Stream Basin: Brushy Creek
3. Groundwater Conservation District (if applicable): _____
4. Customer (Applicant):

Contact Person: Matthew Headley

Entity: Good Shepherd Lutheran Church

Mailing Address: 700 W. Whitestone Boulevard

City, State: Cedar Park, Texas

Zip: 78613

Telephone: (512) 258-6227

Fax: _____

Email Address: mheadley@gstx.org

5. Agent/Representative (If any):

Contact Person: Tammi Migl, P.E.

Entity: Migl Engineering and Consultil, PLLC

Mailing Address: 9600 Escarpment Boulevardm Suite 745-174

City, State: Austin, Texas

Zip: 78749

Telephone: (512) 750 0440

Fax: _____

Email Address: tammi@miglengineering.com

6. Project Location

☒ This project is inside the city limits of Cedar Park.

☐ This project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.

☐ This project is not located within any city limits or ETJ.

7. ☒ 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.

700 W. Whitestone Boulevard, Cedar Park, Texas 78613

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

9. ☒ **Attachment B - USGS Quadrangle Map.** A copy of the USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) should clearly show:

☒ Project site boundaries.

☒ USGS Quadrangle Name(s).

10. ☒ **Attachment C - Project Narrative.** A detailed narrative description of the proposed project is provided at the end of this form. The project description is consistent throughout the application and contains, at a minimum, the following details:

☒ Area of the site

☒ Offsite areas

☒ Impervious cover

☒ Permanent BMP(s)

☒ Proposed site use

☒ Site history

☒ Previous development

☒ Area(s) to be demolished

11. Existing project site conditions are noted below:

☒ Existing commercial site

☐ Existing industrial site

☐ Existing residential site

☐ Existing paved and/or unpaved roads

☐ Undeveloped (Cleared)

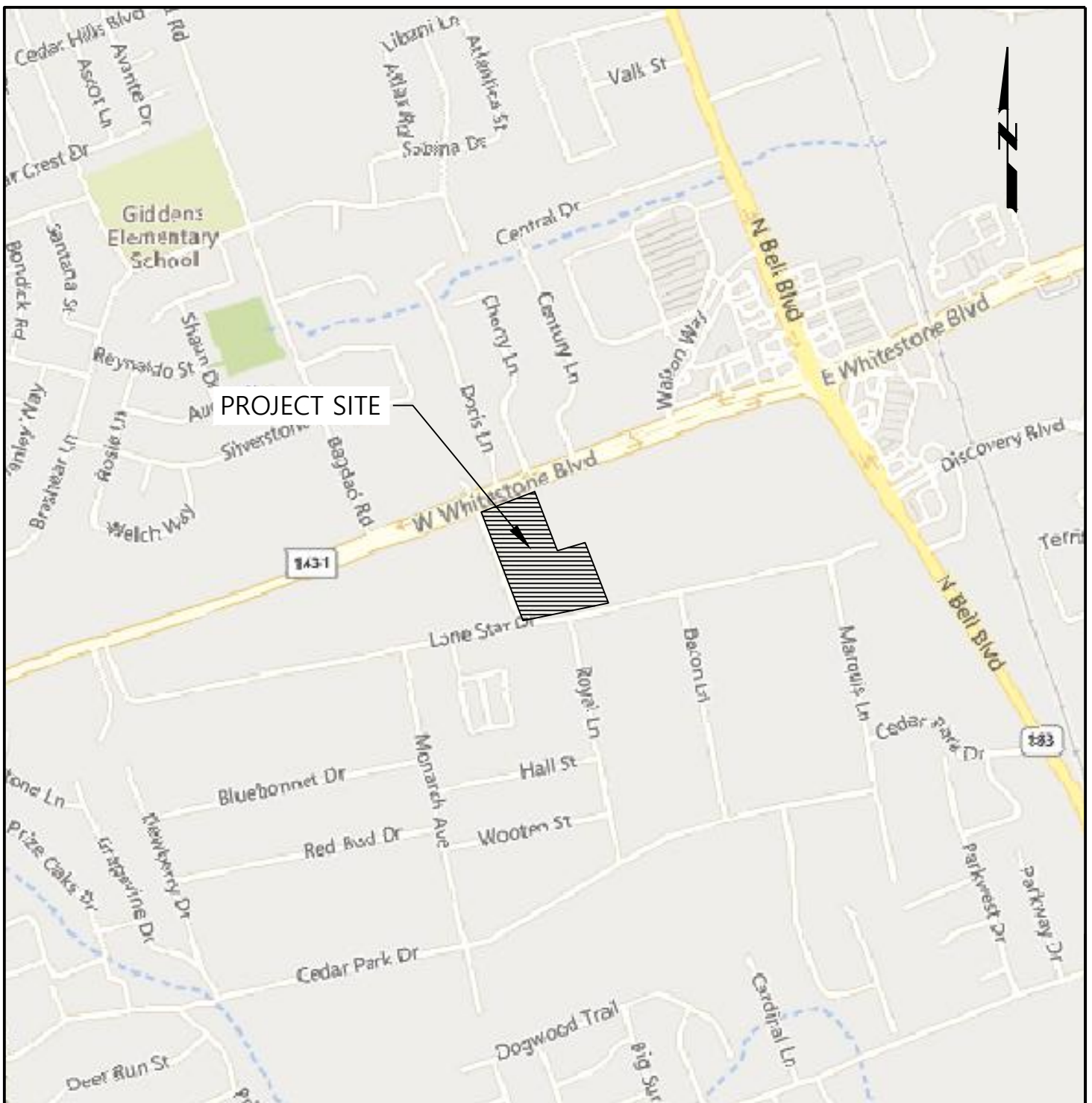
☐ Undeveloped (Undisturbed/Not cleared)

☐ Other: _____

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

Administrative Information

14. ☒ 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.
15. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.



SCALE: 1" = 1000'

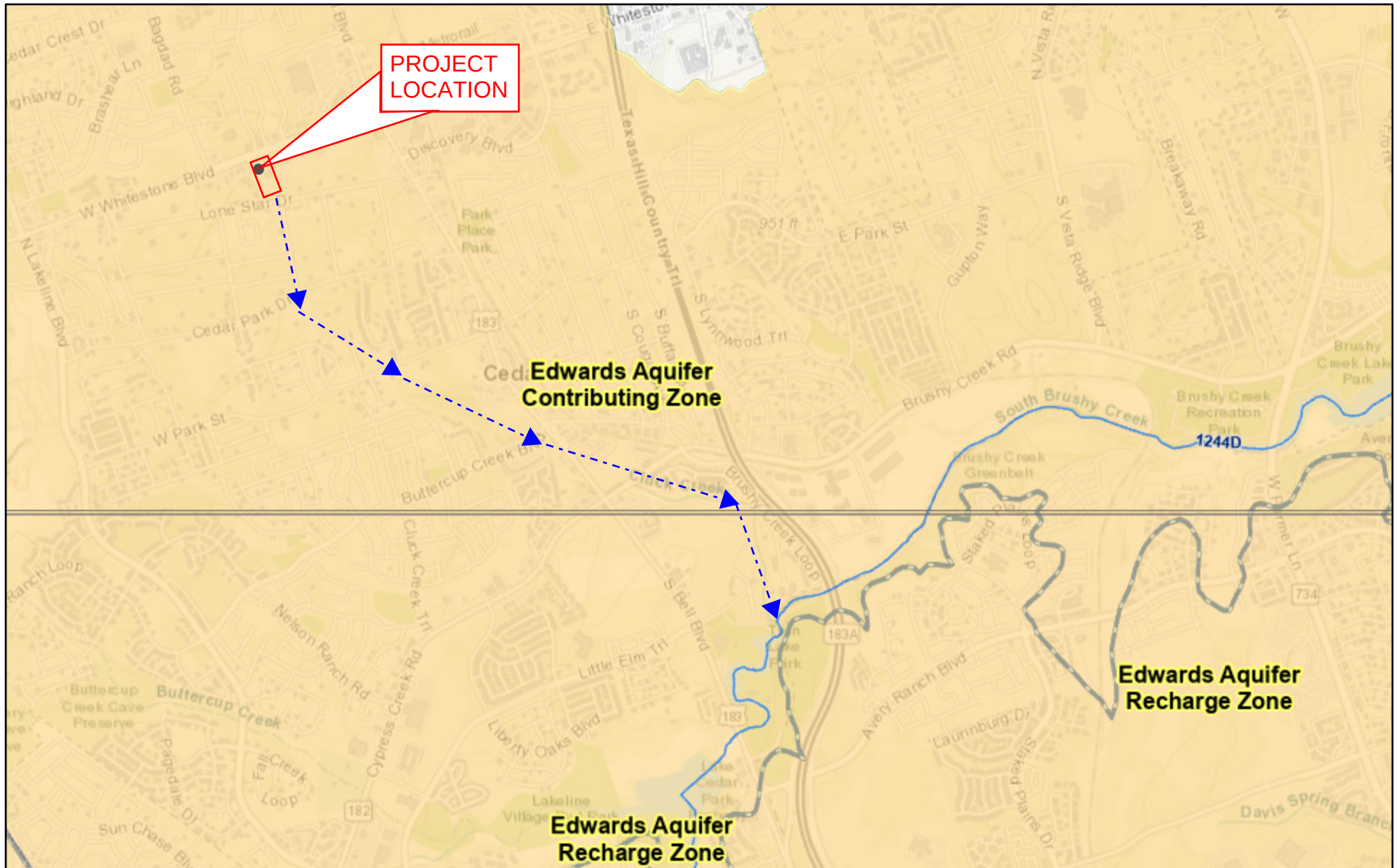
VICINITY MAP

GOOD SHEPHERD LUTHERAN CHURCH NEW SANCTUARY
700 W WHITESTONE BOULEVARD CEDAR PARK, TEXAS 78613
AUGUST 12, 2025



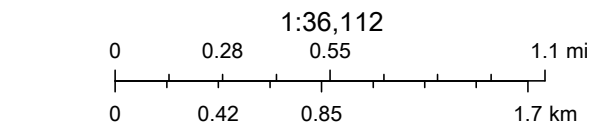
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Good Shepherd Lutheran Church



5/23/2023, 3:12:18 PM

- Segments (Streams)
- Edwards Aquifer Label
- Edwards Aquifer Boundary
- Edwards Aquifer Boundary central line
- City/Place
- TX Counties
- 7.5 Minute Quad Grid
- TCEQ_EDWARDS_OFFICIAL_MAPS



Austin Community College, City of Austin, County of Williamson, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA | TCEQ |

Web AppBuilder for ArcGIS

ATTACHMENT C – PROJECT DESCRIPTION

1.0 GENERAL PROJECT INFORMATION

This application consists of the Site Development Plans for a proposed sanctuary, and associated parking, sidewalk, and utility services on the Good Shepherd Lutheran Church campus located at 700 W Whitestone Boulevard, Cedar Park, Texas 78613. The site is located at the intersections of W Whitestone Blvd and Royal Lane, and Royal Lane and Lone Star Drive. Approximately 0.79 acres of the 9.81-acre site will be utilized for the new development.

2.0 SITE BACKGROUND

The property is legally platted as Lots 17-21 of the Cedar Park Ranchettes Subdivision totaling 9.81 acres. It has been previously developed through various constructions phases. The campus is developed with buildings and associated parking, sidewalks, a partial sedimentation/ filtration water quality pond, detention, and utility improvements. The site was previously developed as one cohesive campus with a Unified Development Agreement (UDA) with respect to impervious cover, parking, and drainage. The existing impervious cover totals 4.24 acres, or 43.21%. Of this, the partial sedimentation/filtration water quality pond treats 2.01 acres of impervious cover, or 20.04%, due to 2.23 acres of existing impervious cover being in place prior to the original water quality pond designed in 2009 with City of Cedar Park permit number SD-08-0030 and TCEQ EAPP ID No. 09052802. The existing water quality pond is designed to treat 4.17 acres of impervious cover, or 42.55%, bringing the ultimate site design to 6.40 acres, or 65.00% impervious cover when accounting for the existing 2.23 acres prior to the original permit mentioned above.



3.0 SITE IMPROVEMENTS

The proposed improvements to the subject tract consist of a 13,079 sf sanctuary, and associated parking, fire lanes, drainage infrastructure, and water and wastewater services. The increase in impervious cover will be 1,658 square feet for a site total of 186,358 square feet (4.28 acres). The existing water quality pond is designed to handle an ultimate condition of 6.40 acres, or 65%, of impervious cover.



ATTACHMENT D – NATURE OF EXCEPTION

A Contributing Zone Exception is requested because a Contributing Zone Plan for this property was previously approved, is active, and the water quality controls were constructed according to the ultimate condition site development plan. The church campus is constructed in phases as funding is raised. The previous phases constructed most of the parking on the property; water, wastewater, and storm systems; and the partial sedimentation-filtration pond for water quality and detention pond designed for the ultimate condition. The current phase is proposing a new building, an addition to the parking lot along with new sidewalks. Reference EXHIBIT D-1 for the site development plans for the proposed improvements.

The CZP approval letter is included with this Exception Request for EAPP ID No. 09052802, Regulated Entity No. RN105743777 (EXHIBIT D-2). The CZP Exception approval letter for the 2023 site improvement project permitted as EAPP ID 11003626 is also included.

ATTACHMENT E – EQUIVALENT WATER QUALITY PROTECTION

The existing BMP, a partial sedimentation/ filtration pond, satisfies the TCEQ TSS removal requirements. The existing water quality pond provides 10,660 cubic feet of volume, removing 3,630 lbs of TSS and meets the 80% removal of total suspended solids for the ultimate condition of 65.28% impervious cover (6.40 acres) across the site. The existing impervious cover is 43.22% and this phase will increase the impervious cover by 1,658 square feet for a site total of 186,358 square feet (4.28 acres) or 43.61%. For these proposed improvements a total TSS load removal of 1,784 lbs is required (EXHIBIT E-1), below the total load removal capacity of the sedimentation-filtration pond. Reference EXHIBIT E-2 after this section for visual representation and quantifications of permitted impervious cover, previously constructed improvements and proposed demolition quantities and improvements.



GOOD SHEPHERD LUTHERAN CHURCH
CONTRIBUTING ZONE PLAN
FORM TCEQ-10262

There are no existing or proposed developed areas for uncontrolled runoff. Stormwater from the redeveloped driveway and paved parking areas will be conveyed via storm drains to the existing water quality pond. The construction plans for this phase are included with this application and include the pond as-builts.



EXHIBIT D-1
NEW SANCTUARY SITE DEVELOPMENT PLANS



OWNER:	GOOD SHEPHERD LUTHERAN CHURCH 700 W WHITESTONE BLVD. CEDAR PARK, TEXAS 78613
ARCHITECT:	DAMAN + LECHTENBERGER ARCHITECTS 3052 NORTH ASPEN AVENUE BROKEN ARROW, OKLAHOMA 74012 (918) 940-8425
CIVIL ENGINEER:	TAMMI MIGL, P.E. MIGL ENGINEERING AND CONSULTING 9600 ESCARPMENT BLVD, SUITE 745-174 AUSTIN, TEXAS 78749 Tammi@miglengeering.com 512-750-0440
LANDSCAPE ARCHITECT:	JONATHAN WAGNER STUDIO 16:19 305 W. LIBERTY AVE, SUITE 100 ROUND ROCK, TEXAS 78664
SUBMITTAL DATE:	SEPTEMBER 8, 2025
LEGAL DESCRIPTION:	LOTS 17-21, BLOCK 3, CEDAR PARKS RANCHETTES UNIT 2
ADDRESS:	700 W WHITESTONE BLVD. CEDAR PARK, TEXAS 78613
TAX PARCEL NUMBER:	R051411 AND R033761
EDWARDS AQUIFER:	THIS PROJECT IS LOCATED OVER THE EDWARDS AQUIFER CONTRIBUTING ZONE PER TCEQ MAPS. EDWARDS AQUIFER PROTECTION PROGRAM ID NO. 09052802 AND NO. 11003626. REGULATED ENTITY NO. RN105743777.
WATERSHED STATUS:	BRUSHY CREEK
FLOODPLAIN INFORMATION:	ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 2% ANNUAL CHANCE FLOOD PLAIN, AS SHOWN ON THE FEMA FIRM MAP 48491C0464F DATED DECEMBER 20, 2019.
JURISDICTION:	CITY OF CEDAR PARK
ZONING:	SR - SUBURBAN RESIDENTIAL
BUILDING COVERAGE:	PROPOSED - 13,079 SF; EXISTING - 25,817 SF
TOTAL SITE AREA:	9.81 AC.
TABS/IDLR:	TABS2026000392
WWW PROVIDER	CITY OF CEDAR PARK
ELECTRIC PROVIDER:	PEDERNALES ELECTRIC

NOTE: THE SITE IS COMPRISED OF FIVE LOTS. IT HAS BEEN APPROVED AS ONE COHESIVE DEVELOPMENT PER UNIFIED DEVELOPMENT AGREEMENT DOCUMENT # 2009054785

PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF THE CONSTRUCTION OF NEW 13,079 GROSS SQ FT SANCTUARY AND ASSOCIATED PARKING, SIDEWALK AND UTILITY IMPROVEMENTS TOTALING 36,414 SF OF NEW AND REDEVELOPED OF IMPERVIOUS SQ. FT. ON A 9.81 AC. SITE.

- NOTES TO CONTRACTOR**
- BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, ALL SUBCONTRACTORS, AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS AND SPECIFICATIONS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS AND MATERIAL SUPPLIERS KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.
 - THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND NOTIFY THE ENGINEER ON ANY CONFLICTS IMMEDIATELY. ANY DAMAGE BY THE CONTRACTOR TO THE EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
 - ALL EXISTING PUBLIC UTILITY LINES (WATER, WASTEWATER, AND STORM SEWER) SHALL BE LOCATED, POTHOLED, AND FIELD VERIFIED VIA SUE LEVEL A PRIOR TO CONSTRUCTION WITH A CITY OF CEDAR PARK EMPLOYEE PRESENT.
 - THE INTENT OF THIS SITE DESIGN IS TO MEET LOCAL, STATE AND FEDERAL DEVELOPMENT CODES AND REGULATIONS. A CONCURRENCE LETTER IS REQUIRED FROM MIGL ENGINEERING AND CONSULTING UPON COMPLETION OF THE CONSTRUCTION AS PERMITTED. ANY CHANGES MADE DURING CONSTRUCTION MUST BE SHOWN ON THE DRAWINGS IN THE FORM OF A REVISION OR CORRECTION BY THE CITY PRIOR TO THE ISSUANCE OF THE CONCURRENCE LETTER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATELY NOTIFYING THE DESIGNER OR ENGINEER OF ANY APPARENT DISCREPANCY OR DESIGN CONFLICTS, AND RESOLVE SUCH SITUATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.
 - SHOULD THERE BE ANY CONFLICT IN SPECIFICATIONS OR REQUIREMENTS FOR MATERIALS OR INSTALLATION THE MOST STRINGENT WILL APPLY. IF THE DECISION IS NOT CLEAR, DIRECT YOUR QUESTIONS TO THE DESIGNER OR ENGINEER.
 - THE CITY APPROVED, SIGNED AND SEALED PLAN SET SHALL TAKE PRECEDENCE OVER ANY CAD FILES PROVIDED TO THE CONTRACTOR.
 - EXCAVATION IS UNCLASSIFIED, WHICH INCLUDES ANY NECESSARY METHODS REQUIRED TO DEWATER OR DRY OUT EXCAVATIONS AND FOR THE IMPORTING OF BASE OR NATIVE MATERIALS NECESSARY TO FACILITATE CONSTRUCTION OF EMBANKMENTS, STRUCTURES, OR PAVEMENT.
 - THE LATEST APPROVED, SIGNED AND SEALED LANDSCAPE ARCHITECTURAL PLANS SHOULD BE CONSULTED FOR THE ACTUAL SIZE, CONFIGURATION AND LOCATION OF EACH SHADE STRUCTURE, FENCE, AND SITE FURNISHINGS.
 - APPROVAL OF SITE PLAN DOES NOT ALLOW FOR ANY WORK IN THE RIGHT OF WAY TO BE CONDUCTED WITHOUT TEMPORARY USE OF RIGHT OF WAY PERMIT.
 - EXCAVATION FOR UTILITY WORK WILL REQUIRE AN EXCAVATION PERMIT
 - ALL DRIVEWAYS AND CONCRETE WORK WILL REQUIRE A DRIVEWAY/ SIDEWALK PERMIT
 - ALL TRAFFIC CONTROL AND PEDESTRIAN PROTECTION WILL REQUIRE A TEMPORARY USE OF ROW PERMIT
 - ALL OTHER PERMITS SUCH AS THE BUILDING PERMIT MUST BE APPROVED BEFORE USE OF THE ROW WILL BE ALLOWED.
 - THE DISTURBED AREAS WITHIN THIS PROJECT SHALL BE REVEGETATED AND ALL PERMANENT EROSION/SEDIMENTATION CONTROLS COMPLETED PRIOR TO THE RELEASE OF FISCAL SURETY FOR THAT PHASE. TEMPORARY EROSION/SEDIMENTATION CONTROLS SHALL BE ADJUSTED AS NEEDED PRIOR TO THIS RELEASE TO ENSURE THAT SUBSEQUENT PHASE DISTURBED AREAS ARE ADEQUATELY COVERED. ANY AREA WITHIN THE LIMIT OF DISTURBANCE OF THE PROJECT WHICH IS NOT ADEQUATELY REVEGETATED SHALL BE BROUGHT INTO COMPLIANCE PRIOR TO THE RELEASE OF THE FINAL PHASE.
 - UNDERGROUND MAINS FEEDING PRIVATE HYDRANTS MUST BE INSTALLED, INSPECTED, AND TESTED IN ACCORDANCE WITH NFPA 24 AND THE FIRE CODE.
 - THE CONTRACTOR SHALL OBTAIN A "NOTICE OF PROPOSED INSTALLATION OF UTILITY LINE" PERMIT FROM WILLIAMSON COUNTY FOR ANY WORK PERFORMED IN THE EXISTING COUNTY RIGHT-OF-WAY (DRIVEWAY APRON, WATER MAIN TIE-IN, ETC.) THIS PERMIT APPLICATION WILL REQUIRE A LIABILITY AGREEMENT, A CONSTRUCTION COST ESTIMATE FOR WORK WITHIN THE RIGHT-OF-WAY INCLUDING PAVEMENT REPAIR (IF NEEDED), A PERFORMANCE BOND, CONSTRUCTION PLANS AND, IF NECESSARY, A RAIN INSPECTION PLAN. AN INSPECTION FEE, AND A PRE-CONSTRUCTION MEETING MAY ALSO BE REQUIRED, DEPENDING ON THE SCOPE OF WORK. THE PERMIT WILL BE REVIEWED AND APPROVED BY THE COUNTY ENGINEER, AND MUST ALSO BE APPROVED BY THE WILLIAMSON COUNTY COMMISSIONERS COURT IF ANY ROAD CLOSURE IS INVOLVED.

NOT FOR CONSTRUCTION UNTIL APPROVED

THESE DOCUMENTS ARE NOT APPROVED FOR CONSTRUCTION, AND SHALL NOT BE USED FOR CONSTRUCTION UNTIL APPROVED BY THE CITY OF CEDAR PARK, UNTIL A DEVELOPMENT PERMIT IS ISSUED BY THE CITY OF CEDAR PARK, AND UNTIL ALL REQUIRED OTHER CITY, COUNTY, AND STATE PERMITS ARE OBTAINED.

APPROVAL OF THESE PLANS BY THE CITY OF CEDAR PARK INDICATES COMPLIANCE WITH APPLICABLE CITY REGULATIONS ONLY. APPROVAL BY OTHER GOVERNMENTAL ENTITIES MAY BE REQUIRED PRIOR TO THE START OF CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR DETERMINING WHAT ADDITIONAL APPROVALS MAY BE NECESSARY.

SITE DEVELOPMENT PLANS FOR
GOOD SHEPHERD LUTHERAN CHURCH
NEW SANCTUARY
700 W WHITESTONE BOULEVARD
CEDAR PARK, TEXAS 78613



VICINITY MAP

1" = 1000'
MAPSCO MAP 372V
CITY GRID NO. D43

REVISIONS/CORRECTIONS

No.	Description	Revise (R) Add (A) Void (V) Sheet No.'s	Total # Sheets in Plan Set	Net Change Imp. Cover (sq. ft.)	Total Site Imp. Cover (sq. ft.) (%)	City of CEDAR PARK Approval/Date	Date Imaged

JOB NO. 0207.002

ALL RESPONSIBILITY FOR THE ACCURACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF CEDAR PARK MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.

ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION." (OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 EAST 6TH STREET,

REFERENCE SHEET C2 FOR THE SHEET INDEX



Reviewed for Code Compliance
Signature required from all Departments

Planning _____ Date _____

Engineering Services _____ Date _____

Industrial Pretreatment _____ Date _____

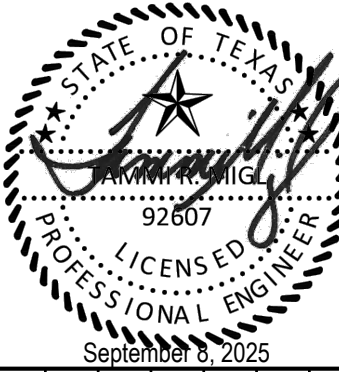
Fire Prevention _____ Date _____

Landscape Planner _____ Date _____

Addressing _____ Date _____

Site Development Permit Number _____

MIGL ENGINEERING AND CONSULTING
9600 Escarpment Blvd, Suite 745-174
Austin, TX 78749 | 512 750 0440
Texas Registered Engineering Firm F-16967



					RECORD
					REVISIONS
					DATE
					NO.

CLIENT	GOOD SHEPHERD LUTHERAN CHURCH
PROJECT	NEW SANCTUARY 700 W WHITESTONE BOULEVARD CEDAR PARK, TEXAS 78613

SHEET TITLE	COVER
PROJECT NO.	0207.002
SHEET NO.	1
	1 OF 35



CAUTION - ELECTRICITY PRESENT

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS THAT ENTER OR WORK ON THIS PROJECT ARE RESPONSIBLE FOR LOCATING, USING ONE-CALL OR THE ELECTRIC UTILITIES THEMSELVES, ALL OVERHEAD AND UNDERGROUND ELECTRICAL OF ANY NATURE AND FOR SAFEGUARDING ALL PERSONNEL ON THIS PROJECT, INCLUDING ANY OFF-SITE WORK AREAS SHOWN ON THE PLAN, FROM ANY INTERFERENCE WITH THE ELECTRIC LINES OR FROM DAMAGING, DIGGING UP OR UNCOVERING THE ELECTRIC LINES, GETTING A LADDER IN HARMS WAY OR ANY OTHER ACTIVITY OF ANY NATURE THAT COULD HARM ANY INDIVIDUAL IN ANY MANNER. THIS RESPONSIBILITY HEREBY REMOVES MIGL ENGINEERING AND CONSULTING AND THE OWNER FROM ANY LIABILITY OF ANY NATURE.

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7	OVERALL PROPOSED MASTER PLAN
8	OVERALL EROSION AND SEDIMENTATION CONTROL PLAN
9	EROSION AND SEDIMENTATION CONTROL PLAN (1 OF 2)
10	EROSION AND SEDIMENTATION CONTROL PLAN (2 OF 2)
11	EROSION AND SEDIMENTATION CONTROL DETAILS
12	DEMOLITION PLAN
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15	PROPOSED GRADING PLAN
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(NOT INCLUDED FOR TCEQ REVIEW) 35	EXTERIOR BUILDING ELEVATIONS (2 OF 2)

BUILDING SUMMARY TABLE			
Good Shepherd Lutheran Church			
Building	Classrooms/Youth	Administration	New Sanctuary
Status	Existing	Existing	Proposed
Construction Type	II-B	V-B	II-B
Sprinklered	No	No	Yes
Foundation Type	Slab on Grade	Slab on Grade	Slab on Grade
Area (Total) (sf)	13,496	11,298	13,079
Building Height	22'-8"	24'-0"	36'-0"
Stories	1	1	1
FFE	999.43	995.52	995.75
Zoning	SR	SR	SR
Use	Classroom	Office/Classrooms	Public Assembly

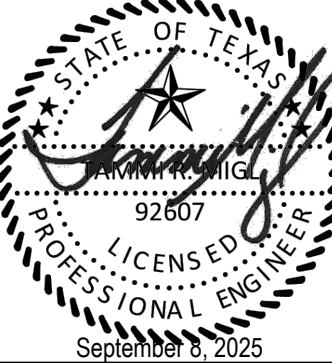
NET SITE AREA CALCULATION			
GOOD SHEPHERD LUTHERAN CHURCH			
GROSS SITE AREA	=	9.811	ACRES
AREA OF UPLANDS WITH SLOPES 0-15%	=	9.811	X 100% = 9.811 ACRES
AREA OF UPLANDS WITH SLOPES 15-25%	=	-	X 40% = - ACRES
AREA OF UPLANDS WITH SLOPES 25-35%	=	-	X 20% = - ACRES
AREA OF UPLANDS WITH SLOPES > 35%	=	-	X 0% = - ACRES
NET SITE AREA			
TOTAL	=	9.811	ACRES
		427,356	SQ. FT.

DENSITY CALCULATIONS								
GOOD SHEPHERD LUTHERAN CHURCH								
GROSS SITE AREA	=	9.811	ACRES	427,356	SF			
NET SITE AREA	=	9.811	ACRES	427,356	SF			
	IMPERVIOUS COVER			BUILDING COVERAGE ¹			FLOOR AREA ²	FAR ³
	SF	AC	%	SF	AC	%	SF	
ALLOWABLE OF NSA	277,781	6.377	65.00	-	-	-	-	-
EXISTING	184,700	4.240	43.22	30,015	0.689	7.02	30,015	0.07:1
EXISTING TO BE DEMOLISHED	34,756	0.798	8.13	0	0.000	0.00	0	-
PROPOSED	36,414	0.836	8.52	13,079	0.300	3.06	13,079	0.03:1
TOTAL AFTER DEVELOPMENT	186,358	4.278	43.61%	43,094	0.989	10.08%	43,094	0.10:1
¹ Building Coverage includes buildings, covered patios, and covered sidewalks								
² Floor Area includes the total enclosed area of all floors in all buildings								
³ Floor to Area Ratio (FAR) is the ratio of gross floor area to gross site area								

REQUIRED PARKING					
	BUILDING	USE	SIZE (SF)	PARKING RATIO	REQUIRED PARKING
EXISTING	Classroom/ Youth	Classrooms	13,496	1:300	45
	Administration	Office/ Classrooms	11,298	1:300	38
PROPOSED	Sanctuary	Assembly	13,079	1:100	131
TOTAL					214

PROVIDED PARKING							
	STANDARD	ADA			TOTAL	BICYCLE	LOADING
	SPACES	STANDARD	VAN	TOTAL	PARKING	PARKING	SPACES
Existing NE Lot	42	6	2	8	50	0	1
Existing SE Lot	129	0	0	0	129	0	1
Existing NW Lot	35	0	0	0	35	0	0
Proposed at Sanctuary	11	2	1	3	14	3	0

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SHEET TITLE
SHEET INDEX

PROJECT NO.
0207.002

SHEET NO.
2
2 OF 35

Construction Notes for Subdivisions & Site Plans City of Cedar Park
Revised March 23, 2023

1. General Contractor shall call for all utility locates for any construction. Contractor shall delineate areas of excavation using white paint (white lining) in accordance with 16 TAC 18.3. Water & wastewater owned by the City of Cedar Park can be located by calling Texas 811 at 1-800-344-8377. Allow three business days for utility locates by the City of Cedar Park.
2. All construction shall be in accordance with the latest City of Austin Standard Specifications. City of Austin standards shall be used unless otherwise noted.
3. Design procedures shall be in general compliance with the City of Austin Drainage Criteria Manual. All variances to the manual are listed below: NONE.
4. Benchmarks should be tied to the City of Cedar Park benchmarks and be correctly "georeferenced" to the plane coordinates. A list of the City's benchmarks can be found at: <http://www.cedarparktx.gov/index.aspx?page=793>.
5. Prior to issuance of a certificate of occupancy for a site development permit, the right of way between the property line and edge of pavement / back of curb shall be revegetated according to COA specification 602S and 606S. Prior to City acceptance of subdivision improvements all graded and disturbed areas shall be re-vegetated in accordance with the City of Austin Specification Item #604 native seeding unless non-native is specifically approved.
6. The Contractor shall provide the City of Cedar Park copies of all test results prior to acceptance of subdivision improvements.
7. City owner, engineer, contractor, representatives of all utility companies, and a representative from the testing lab shall attend pre-construction conference prior to start of construction. The contractor shall schedule the meeting with the City of Cedar Park Engineering Department a minimum of 48 hours prior to this pre-construction meeting (512-401-5000). Final construction plans shall be delivered to Engineering a minimum of seven business days prior to requesting a pre-construction meeting.
8. Excess soil shall be removed at the contractor's expense. Notify the City of Cedar Park if the disposal site is inside the City's jurisdictional boundaries.
9. Burning is prohibited.
10. All changes or revisions to these plans must first be submitted to the City by the design engineer for review and written approval prior to construction of the revision. All changes and revisions made to the design of utilities or impacts utilities shall use revision clouds to highlight all revisions or changes with each submittal. Revision triangles shall be used to mark revisions. All clouds and triangle markers from previous revisions may be removed. Revision information shall be updated in the appropriate areas of the Title Block.
11. Minimum setback requirements for existing and newly planted trees from the edge of pavement to conform to the requirements as shown in Table 6-1 of the City of Austin's Transportation Criteria Manual.
12. The Contractor will reimburse the City for all cost incurred as a result of any damage to any City utility or any infrastructure within the Right-of-Way by the Contractor, regardless of these plans

13. An engineer's concurrence letter and electronic 22"x34" record drawings shall be submitted to the Engineering Department prior to the issuance of certificate of occupancy or subdivision acceptance. The Engineer and Contractor shall verify that all final revisions and changes have been made to record drawings prior to City submittal. Record construction drawings, including roadway and all utilities, shall be provided to the City in AutoCAD, ".dwg" files and ".PDF" format on a CD or DVD. Line weights, line types and text size shall be such that if half-size prints (11"x 17") were produced, the plans would still be legible. All required digital files shall contain a minimum of two (2) control points referenced to the State Plane Grid Coordinate System – Texas Central Zone (4203), in US feet and shall include rotation information and scale factor required to reduce surface coordinates to grid coordinates in US feet.
14. The City of Cedar Park has not reviewed these plans for compliance with the Americans With Disabilities Act. It is the responsibility of the owner to provide compliance with all legislation related to accessibility within the limits of construction shown in these plans.
15. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF CEDAR PARK MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
16. No blading is allowed on this project.
17. A traffic control plan, in accordance with the Texas Manual on Uniform Traffic Control Devices, shall be submitted to the City for review and approval prior to any partial or complete roadway closures. Traffic control plans shall be site specific and seal by a registered professional engineer.
18. The contractor shall keep the site clean and maintained at all times, to the satisfaction of the City. The subdivision will not be accepted (or Certificate of Occupancy issued) until the site has been cleaned to the satisfaction of the City.
19. Signs are not permitted in Public Utility Easements, Set Backs or Drainage Easements.
20. It shall be the responsibility of the Contractor to inspect temporary erosion controls on a daily basis. Adjust the controls and/or remove any sediment buildup as necessary. A stop work order and/or fine may be imposed if the erosion controls are not maintained.
21. A final certificate of occupancy will not be issued on commercial sites until all disturbed areas have been re-vegetated. Substantial grass cover, as determined by Engineering Department, must be achieved prior to the issuance of a final certificate of occupancy. All erosion controls must remain in place and maintained until all disturbed areas have been re-vegetated to the acceptance of the City of Cedar Park Engineering Department. Prior to issuance of a certificate of occupancy for a site development permit, the right of way between the property line and edge of pavement / back of curb shall be revegetated according to COA specification 602S and 606S.
22. Contractor will be responsible for keeping roads and drives adjacent to and near the site free from soil, sediment and debris. Contractor will not remove soil, sediment or debris from any area, be it public or private, by means of water, only shoveling and sweeping will be allowed. Contractor will be responsible for dust control from the site. Failure to comply with this requirement may result in a stop work order or a fine.
23. All wet utilities shall be installed and all densities must have passed inspection(s) prior to the installation of dry utilities.
24. A minimum of seven days of cure time is required for HMAC prior to the introduction of vehicular traffic to any streets.
25. Prior to plan approval, the Engineer shall submit to the Engineering Department documentation of subdivision/site registration with the Texas Department of Licensing and Regulations (TDLR) and provide documentation of review and compliance of the subdivision/site construction plans with Texas Architectural Barriers Act (TABA).

26. Prior to subdivision/site acceptance, the engineer/developer-owner shall submit to the Engineering Department documentation that the subdivision/site was inspected by TDLR or a registered accessibility specialist (RAS) and the subdivision/site is in compliance with the requirements of the TABA.
27. All construction and construction related activities shall be performed Monday thru Friday from 7:00 A.M. to 6:00 P.M. However, construction activities within one hundred feet (100') of a dwelling or dwelling unit shall be performed between the hours of 8:00 a.m. and 6:00 p.m. Otherwise all construction and construction related activities shall conform to City of Cedar Park Code of Ordinances, specifically ARTICLE 8.08.
28. Approval for construction activities performed on Owner's Holidays, and/or Saturdays, outside of normal hours through Friday 8 am to 5 pm, or in excess of 8 hours per day shall be obtained in writing 48 hours in advance, and inspection fees at 1.5 times the hourly inspection rate shall be billed directly to the Contractor. There shall be no construction or construction related activities performed on Sunday. The City reserves the right to require the contractor to uncover all work performed without City inspection.
29. All poles to be approved by City and PEC, no conduit shall be installed down lot lines / between homes. All conduit shall be located in the public ROW or in an easement adjacent to and parallel to the public ROW.
30. Dry utilities shall be installed after subgrade is cut and before first course base. No trenching of compacted base. If necessary dry utilities installed after first course base shall be bored across the full width of the ROW.
31. No ponding of water shall be allowed to collect on or near the intersection of private driveway(s) and a public street. Reconstruction of the driveway approach shall be at the Contractor's expense.
32. All driveway approaches shall have a uniform two percent slope within the ROW unless approved in writing by the Engineering Department.
33. Contractor's on site shall have an approved set of plans at all times. Failure to have an approved set may result in a stop work order.
34. Contractor to clear five feet beyond all right of way to prevent future vegetative growth into the sidewalk areas.
35. There shall be no water or wastewater appearances, including but not limited to, valves, fittings, meters, clean-outs, manholes, or vaults in any driveway, sidewalk, traffic or pedestrian area.
36. Sidewalks shall not use curb inlets as a partial walking surface. Sidewalks shall not use traffic control boxes, meter or check valve vaults, communication vaults, or other buried or partially buried infrastructure as a vehicular or pedestrian surface.

1. No trenching of compacted base will be allowed. A penalty and/or fine may be imposed to the general contractor if trenching of compacted base occurs without City approval, regardless of who performed the trenching.
2. All sidewalks shall comply with the Americans With Disabilities Act. The City of Cedar Park has NOT reviewed these plans for compliance with the Americans With Disabilities Act, or any other accessibility legislation, and does not warrant or approve these plans for any accessibility standards.
3. Street barricades shall be installed on all dead end streets and as necessary during construction to maintain job safety.
4. Any damage caused to existing pavement, curbs, sidewalks, ramps, etc., shall be repaired by the contractor to the satisfaction of the City prior to acceptance of the subdivision.
5. At intersections, where there may be valley drainage, the crown to the intersecting street will be culminated at a distance of 40 ft. from the intersecting curb line unless otherwise noted.
6. The subgrade material was tested by ECP Texas LLP, on August 29, 2006 the pavement sections were designed accordingly. The pavement sections are to be constructed as follows: Refer to "FLEXIBLE PAVEMENT SECTION" detail on sheet 14.
7. Density testing of compacted subgrade material, first course and second course compacted base, shall be made at 500 foot intervals.
8. All density testing is the responsibility of the owner or contractor and shall be witnessed by the City of Cedar Park's project representative. The contractor is to notify the City 48 hours prior to the scheduled testing.
9. Traffic control signs and pavement markings shall be in accordance with the Texas Manual on Uniform Traffic Control Devices and installed as directed by the City of Cedar Park prior to City acceptance of the Subdivision.
10. Slope of natural ground adjacent to the right-of-way shall not exceed 3:1. If a 3:1 slope is not possible, a retaining wall or some other form of slope protection approved by the City shall be placed in a location acceptable to the City.
11. The City, engineer, contractor, and a representative from the asphalt testing lab shall attend a pre-paving conference prior to the start of HMA paving. The contractor shall give the City a minimum of 48 hours notice prior to this meeting (512-401-5000).
12. The Contractor or owner is responsible for conducting tests on asphalt pavement in accordance with the requirements set forth in the City of Austin Standard Specification No. 340. Re-testing of the asphalt pavement shall be conducted under the supervision of the engineer and the City of Cedar Park. Re-testing of the asphalt pavement shall be limited to one retest per project.
13. All pavement markings and signage shall comply with MUTCD standards. Street name letter sizing shall be in accordance with MUTCD Table 2D-2. Pavement markings shall be thermoplastic unless otherwise noted.

14. No sign or signpost of any light intensity or any glare shall be installed or placed so that it obstructs the sight lines of drivers from an intersecting public roadway or from an intersecting private driveway. Sight lines are to be maintained as described in City Code Section 14.05.007. Installing a fence or wall which does not comply with the City's Sight Distance Requirements or Fencing Regulations is a violation of the City's Ordinance and may be punishable pursuant to Section 1.01.009 of City Code.
16. Temporary rock crushing operations are not allowed. All sources for flexible base material are required to be approved by the City. Prior to base placement all current trial test reports for the proposed stockpiles are to be submitted to the City's project representative for review and approval.
17. Utility service boxes or other utility facilities shall not be installed within areas determined to be required sight lines of two intersecting public streets or within sight lines of a private driveway. Sight lines are to be maintained compliant with Table 1-1 of the Austin Transportation Criteria Manual. Utilities determined by the Director of Engineering to be placed within required sight lines may be required to be relocated at the expense of the contractor prior to the City issuing a Certificate of Occupancy or prior to the City's Acceptance of the Project Improvements.
18. All lane closures shall occur only between the hours of 9 AM and 4 PM. Any night time lane

1. Refer to the City of Cedar Park Public Works Utility Policy and Specifications manual.
2. Manhole frames and covers and water valve boxes shall be raised to finished pavement grade at the owner's expense by the contractor with the City approval. All utility adjustments shall be completed prior to final paving construction.
3. The location of any existing utility lines shown on these plans may not be accurate. Any damage to existing utility lines, both known and unknown, shall be repaired at the expense of the contractor. The contractor shall locate all utilities prior to bidding the project.
4. All iron pipe and fittings shall be wrapped with at least 8 mil. Polyethylene wrap.
5. All water mains, wastewater mains and service lines shall meet City of Austin minimum cover specifications. All streets are to be cut to subgrade prior to installation of water mains or cuts will be issued by the engineer.
6. Where 48-inches of cover below subgrade cannot be achieved for wastewater service lines alternate materials may be used. A minimum of 36-inches of cover below subgrade shall be achieved. Any wastewater service line with cover between 36-inch and 48- inches shall be SDR-26 PVC pressure pipe.
7. Gasketed PVC sewer main fittings shall be used to connect SDR-35 PVC to SDR-26 PVC pressure pipe or C-90.
8. Pipe materials to be used for construction of utility lines:

- Force Main- N/A
- (Note: If using PVC, SDR-26 is required, SDR-35 WW is not allowed. Formcans shall be epoxy lined ductile iron)
9. All sanitary sewers, excluding service lines, shall be mandrel tested per TCEQ (Texas Commission on Environmental Quality) criteria. A mandrel test will not be performed until backfill has been in place for a minimum of 30 days.
 10. All wastewater lines 10" and larger shall be video inspected in accordance with City of Cedar Park Public Works Department Utility Policy and Standard Specifications Manual Appendix E: Requirements for Video Inspection of Wastewater Lines at the Contractor's expense. No separate pay unless noted on the bid form.
 11. All sanitary sewers, including service lines, shall be air tested per City of Austin Standard Specifications.
 12. Density testing of compacted backfill shall be made at a rate of one test per two foot lifts per 500 feet of installed pipe.
 13. City shall be given 48 hours notice prior to all testing of water and wastewater lines. City inspection is required for all testing of water and wastewater lines.
 14. Where a water or wastewater line crosses above (or below) a storm sewer structure and the bottom (or top) of the pipe is within 18 inches of the top (or bottom) of the utility structure, the pipe shall be encased with concrete for a distance of at least 1 ft. on either side of the ditch line of the utility structure or the storm sewer. Concrete encasement will not be required for ductile iron (thickness Class 50), AWWA C-900 (SDR- 18) 150 psi rated PVC in sizes to 12 inches or AWWA C-905 (SDR-25) 165 psi rated PVC in sizes larger than 12 inches. Concrete encasement shall conform to C.O.A. standard detail 505-1.
 15. The allowable (maximum) adjustment for a manhole shall be 12" (inches) or less.
 16. Where a sewer line crosses a water line, the sewer line shall be one 20 ft. joint of 150 psi rated PVC centered on crossing.
 17. All manhole and inlet covers shall read "City of Cedar Park".
 18. Contractor to notify, and obtain approval from, the City of Cedar Park 48 hours prior to connecting to existing City utilities.
 19. All pipe bedding material shall conform to City of Austin Standard Specifications.
 20. Unless otherwise specified by the Engineer all concrete is to be Class "A" (5 sack, 3000 psi 28-days) and all reinforcing steel to be ASTM A615 60.
 21. All wastewater manholes to be coated with organic materials and procedures listed in City of Austin Qualified Products List No. WW-511 (WW-511A and WW-511B are not allowed unless manhole is being structurally rehabilitated with approval by Public Works). All manholes will be pre-coated or coated AFTER testing.
 22. PolybriD Coatings on wastewater manholes will not be allowed. Any other product appearing on the COA SPL WW-511 is acceptable.
 23. All penetrations of existing wastewater manholes are required to be re-coated in accordance with the specifications listed in Note 20.
 24. All manholes will be vacuum tested only.
 25. Tracer tape AND marking tape shall be installed on all water and wastewater mains in accordance with City of Austin Standards, regardless of the type of pipe.
 26. All pressure pipe shall have mechanical restraint and concrete thrust blocking at all valves, bends, tees, plugs, and other fittings.

1. Refer to the City of Cedar Park Public Works Utility Policy and Specifications manual.
2. The top of valve stems shall be at least 18", and no more than 36", below finished grade. Valve stem risers shall be welded on each end to the City's satisfaction.
3. Fire hydrant leads to be ductile iron, Class 350, and installed per City of Austin standard specifications and detail.
4. Prior to installation of fire hydrants, the engineer will provide the Contractor one (1) cut from a hub-joint, establishing the elevation of the bury line.
5. The engineer shall provide cuts for all water lines at all storm sewer crossings to the City of Cedar Park.
6. Pipe materials to be used for construction of utility lines:
 - Water - N/A
 - Copper pipe and fittings are not permitted within the Right-of-Way.
Minimum DR-14 12" dia and smaller. Minimum class 250 DI larger than 12" dia.
7. Approved 5 1/4" fire hydrants:
 - American Flow Control, B84B
 - Mueller Company, Super Centurion 250
 - Clow Medallion Hydrant

- All fire hydrants must meet City of Cedar Park trunk specifications (National Thread).
 Double check markers shall be located on the centerline of the pavement across from all fire hydrants. Pavement markers at intersections shall be four-sided.
- Tapping Saddle to be approved by Public Works, the saddle shall be Smith-Blair 662 Stainless Steel Tapping Sleeves with all stainless hardware, or approved equal. Requests for alternate products shall be made to the City of Cedar Park Public Works. No tapping exceeding 2" in diameter will be approved.
- Water lines, including service lines, shall be pressure and leak tested per City of Austin Standard Specifications and witnessed by the City of Cedar Park representative. All testing to be the responsibility of the contractor, and the contractor may be required to re-test if the testing is not witnessed by the City. Contractor must notify the City of Cedar Park 48 hours prior to any testing.
- Water lines shall be sterilized and bacteriologically tested in accordance with City of Austin Standards. The contractor is responsible for sterilization and the City of Cedar Park is responsible for submitting bacteriological samples to the State. Public Works will require a contractor specialized in disinfection for large diameter lines or critical infrastructure, including pipe installation.
- Density testing of compacted backfill shall be made at a rate of one test per two foot lifts for 500 feet of installed pipe.
- Contractor to obtain a water meter from the City of Cedar Park for any water that may be required during construction. (\$12-401-5000)
- ALL WATER METER BOXES SHALL BE FORD GULF METER BOX WITH LOCKING LID.
- SINGLE G-148-233
 - DUAL DG-148-243
 - 1" METER YL111 - 444
 - 1 1/2" - 2" METER L730-R (LID) & L730-12 (BOX)/ACCEPTABLE BOXES FOR THIS SIZE OF METER
- Manhole frames and covers and water valve boxes shall be raised to finished pavement grade, when in public streets, at the owner's expense by the contractor with City inspection. All utility adjustments shall be completed prior to final paving construction.
- The location of any existing utility lines shown on these plans is the best available and may not be accurate. Any damage to existing utility lines, both known and unknown, shall be repaired at the expense of the contractor.
- Iron pipe and fittings shall be wrapped with at least 8 mil. Polyethylene wrap.
- Water mains, wastewater mains and service lines shall meet City of Austin specifications for minimum cover requirements. All streets are to be cut to upgrade prior to installation of water mains or cuts will be issued by the engineer.
- Notice to be given 48 hours notice prior to all testing of water and wastewater lines. City inspection is required for all testing of water and wastewater lines.
- Where a water or wastewater line crosses above (or below) a storm sewer structure and the storm (or top) of the pipe is within 18 inches of the top (or bottom) of the utility structure, the pipe shall be encased with concrete for a distance of at least 1 ft. on either side of the trench line of the utility structure or the storm sewer. Concrete encasement will not be required for ductile iron (thickness Class 50, AWWA C900 (SDR 11) or 65 rated PVC in sizes to 12 inches or AWWA C-905 (SDR-25) 165 psi rated PVC in sizes larger than 12 inches. Concrete encasement shall conform to C.O.A. standard detail 505-1.
- Contractor to notify the City of Cedar Park 48 hours prior to connecting to existing utilities.
- Pipe bedding material shall conform to City of Austin Standard Specifications.
- Meter pipe shall be installed on all water and wastewater mains regardless of the type or depth of pipe installed.
- Unless otherwise specified by the Engineer all concrete to be is Class "A" (5 sack, 3000 psi ~ 28 days), and all reinforcing steel to be ASTM A615 60.
- The City considers protection of its water system paramount to construction activities. City personnel will operate, or authorize the contractor to operate, all water valves that will pass water to the City's potable water. The contractor may not operate any water valve, existing or proposed, that will allow water from the City's water system to flow to a proposed or existing water system without the express consent of the City. Notify the City two business days in advance of any request to operate a water valve. The general contractor may be fined \$100 or more, including additional theft of water fines, if a water valve is operated in an unauthorized manner, regardless of who operated the valve.
- Water valves over 24" in size shall have a by-pass line and valve installed. By-pass lines and valves are subsidiary to the cost of the valve unless specifically identified on the plan or form.
- Water valves, including those over 12" in size, shall be gate valves.
- Double check backflow device in a vault shall be installed at the property line on all private water lines. A detector water meter will be installed on this backflow device, and it must be a Mansus R3/4" water meter with AMI radio read capability. The City will provide this meter.
- Please reference the City of Cedar Park Double Check Backflow Prevention Assembly Detail.
- All backflow water system components installed after January 4, 2014, shall be "lead free" according to the United States Safe Drinking Water Act. The only components exempt from this requirement are fire hydrants. Components that are not clearly identified by the manufacturer as meeting this requirement by marking, or on the product packaging, or by an approved submittal, will be rejected for use. A NSF certification will be adequate if the certification has not expired as of January 4, 2014 and remains unexpired at the time of installation.
- Pressure pipe shall have mechanical restraint and concrete thrust blocking at all elbows, bends, tees, plugs, and other fittings.

1. Manhole frames and covers and water valve boxes shall be raised to finished pavement grade at the owner's expense by the contractor with City inspection. All utility adjustments shall be completed prior to final paving construction. Contractor shall backfill around manholes and junction boxes with Class A concrete.
2. All manhole lids shall be 32" or larger, unless expressly approved in writing by the Engineering Department.
3. The location of any existing utility lines shown on these plans is the best available and may not be accurate. Any change to existing utility lines, both known and unknown, shall be repaired at the expense of the contractor.
4. Pipe materials to be used for construction of utility lines: Unless otherwise specified by the Engineer, all storm sewer RCP shall be Class III. Corrugated Metal Pipe is not permitted.
5. All manhole and inlet covers shall read "City of Cedar Park".
6. Contractor to notify the City of Cedar Park 48 hours prior to connecting to existing

The following sequence of construction shall be used for all development. The applicant is encouraged to provide any additional details appropriate for the particular development.

1. Temporary erosion and sedimentation controls are to be installed as indicated on the approved site plan or subdivision construction plan and in accordance with the Erosion Sedimentation Control Plan (ESC) and Stormwater Pollution Prevention Plan (SWPPP) that is required to be posted on the site. Install tree protection and initiate tree mitigation measures.
2. The General Contractor must contact the City Inspector at 512-401-5000, 72 hours prior to the scheduled date of the required on-site preconstruction meeting.
3. The General Contractor will follow the Erosion Sedimentation Control Plan (ESC) and Storm Water Pollution Prevention Plan (SWPPP) posted on the site. Temporary erosion and sedimentation controls will be revised, if needed, to comply with City Inspectors' directives, and revised construction schedule relative to the water quality plan requirements and the erosion plan.
4. Rough grade the pond(s) at 100% ponding capacity. Either the permanent outlet structure or a temporary outlet must be constructed prior to development of embankment or excavation that leads to ponding conditions. The outlet system must consist of a sump pit outlet and an emergency spillway meeting the requirements of the City of Austin Drainage Criteria Manual, as required. The outlet system shall be protected from erosion and shall be maintained throughout the course of construction until installation of the permanent water quality pond(s).
5. Temporary erosion and sedimentation controls will be inspected and maintained in accordance with the Erosion Sedimentation Control Plan (ESC) and Storm Water Pollution Prevention Plan (SWPPP) posted on the site.
6. Begin site clearing/construction (or demolition) activities.
7. Underground utilities will be installed, including fire hydrants.
8. Fire Department access will be installed where required by approved site plan.
9. Vertical construction may occur after the Pre-vertical Inspection has been cleared by the Fire Marshal.
10. Permanent water quality ponds or controls will be cleaned out and filter media will be installed prior to/concurrently with revegetation of site.
11. Complete construction and start revegetation of the site and installation of landscaping.
12. Upon completion of the site construction and revegetation of a project site, the design engineer shall submit an engineer's letter of concurrence bearing the engineer's seal, signature, and date to the City indicating that construction, including revegetation, is complete and in substantial compliance with the approved plans. After receiving this letter, a final inspection will be scheduled by the City Inspector.
13. Upon completion of landscape installation of a project site, the Landscape Architect shall submit a letter of concurrence to the City indicating that the required landscaping is complete and in substantial conformity with the approved plans. After receiving this letter, a final inspection will be scheduled by the City Inspector.
14. After a final inspection has been conducted by the City Inspector and with approval from the City Inspector, remove the temporary erosion and sedimentation controls and complete any necessary final revegetation resulting from removal of the controls. Conduct any maintenance and rehabilitation of the water quality ponds or controls.

CEDAR PARK GPS MONUMENT CP32:
3" BRASS DISK IN CONCRETE.
STANDING ON EAST ROW OF ROYAL LN., SOUTH OF W. WHITESTONE BLVD.
(FM 1431), SOUTH OF PARKING LOT,
NEXT TO PLAYGROUND, LOOKING NORTH.
N=10160538.64
E=3082564.92
ELEVATION = 989.18'

TBM #1:
SQUARE CUT NEAR CORNER OF CONCRETE CURB AND CONCRETE
SIDEWALK AT DRIVEWAY ON THE WEST SIDE OF ROYAL LANE, ±200' SOUTH
OF WHITSTONE BOULEVARD, ±20' SOUTH OF GAS VALVE IN DRIVEWAY.
N=10160854.15
E=3082384.44
ELEVATION = 996.77'.
BEARING FROM CP32: N29°46'11"W, 363.48'

TBM #2:
SQUARE CUT ON SOUTHWEST CORNER OF CONCRETE DRAINAGE CULVERT
LOCATED AT THE NORTHEASTERLY CORNER OF THE INTERSECTION OF
ROYAL LANE AND LONE STAR DRIVE, ±50' EAST OF STOP SIGN.
N=10160293.64
E=3082664.13
ELEVATION = 986.03'.
BEARING FROM CP32: S22°02'41"E, 264.33'

BASIS OF BEARINGS:
ALL BEARINGS ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, GRID NORTH, CENTRAL ZONE, (4203), NAD83, ALL DISTANCES WERE ADJUSTED TO SURFACE USING A COMBINED SCALE FACTOR OF 1.0001264.
ELEVATIONS ARE BASED ON NAVD88.

STATE OF TEXAS
MARVIN R. HIGGS
92607
LICENSED PROFESSIONAL ENGINEER
September 8, 2025

[illegible]

CLIENT

GOOD SHEPHERD LUTHERAN CHURCH

PROJECT

NEW SANCTUARY
700 W WHITESTONE BOULEVARD
CEDAR PARK, TEXAS 78613

GENERAL NOTES

PROJECT NO.
0207.002

SHEET NO. 3
3 OF 35

Texas Commission on Environmental Quality
Contributing Zone Plan
General Construction Notes

Edwards Aquifer Protection Program Construction Notes – Legal Disclaimer

The following listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aquifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes," is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulation

1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any ground disturbance or construction activities. This notice must include:

- the name of the approved project;
- the activity start date; and
- the contact information of the prime contractor.
2. All contractors conducting regulated activities associated with this project should be provided with complete copies of the approved Contributing Zone Plan (CZP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractor(s) should keep copies of the approved plan and approval letter on-site.
3. No hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.
4. Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized.
5. Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.
6. Sediment must be removed from the sediment traps or sedimentation basins when it occupies 50% of the basin's design capacity.
7. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
8. All excavated material that will be stored on-site must have proper E&S controls.
9. If portions of the site will have a cease in construction activity lasting longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.
10. The following records should be maintained and made available to the TCEQ upon request:

- the dates when major grading activities occur;
- the dates when construction activities temporarily or permanently cease on a portion of the site; and
- the dates when stabilization measures are initiated.
11. The holder of any approved CZP must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:

A. any physical or operational modification of any best management practices (BMPs) or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;
B. any change in the nature or character of the regulated activity from that which was originally approved;
C. any change that would significantly impact the ability to prevent pollution of the Edwards Aquifer; or
D. any development of land previously identified as undeveloped in the approved contributing zone plan.

Austin Regional Office 12100 Park 35 Circle, Building A Austin, Texas 78753-1808 Phone (512) 339-2929 Fax (512) 339-3795	San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490-3096 Fax (210) 545-4329
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Texas Registered Engineering Firm F-16967



						RECORD
						REVISIONS
						DATE
						NO.

CLIENT	GOOD SHEPHERD LUTHERAN CHURCH
PROJECT	NEW SANCTUARY 700 W WHITESTONE BOULEVARD CEDAR PARK, TEXAS 78613

SHEET TITLE	TCEQ NOTES
PROJECT NO.	0207.002
SHEET NO.	4 4 OF 35

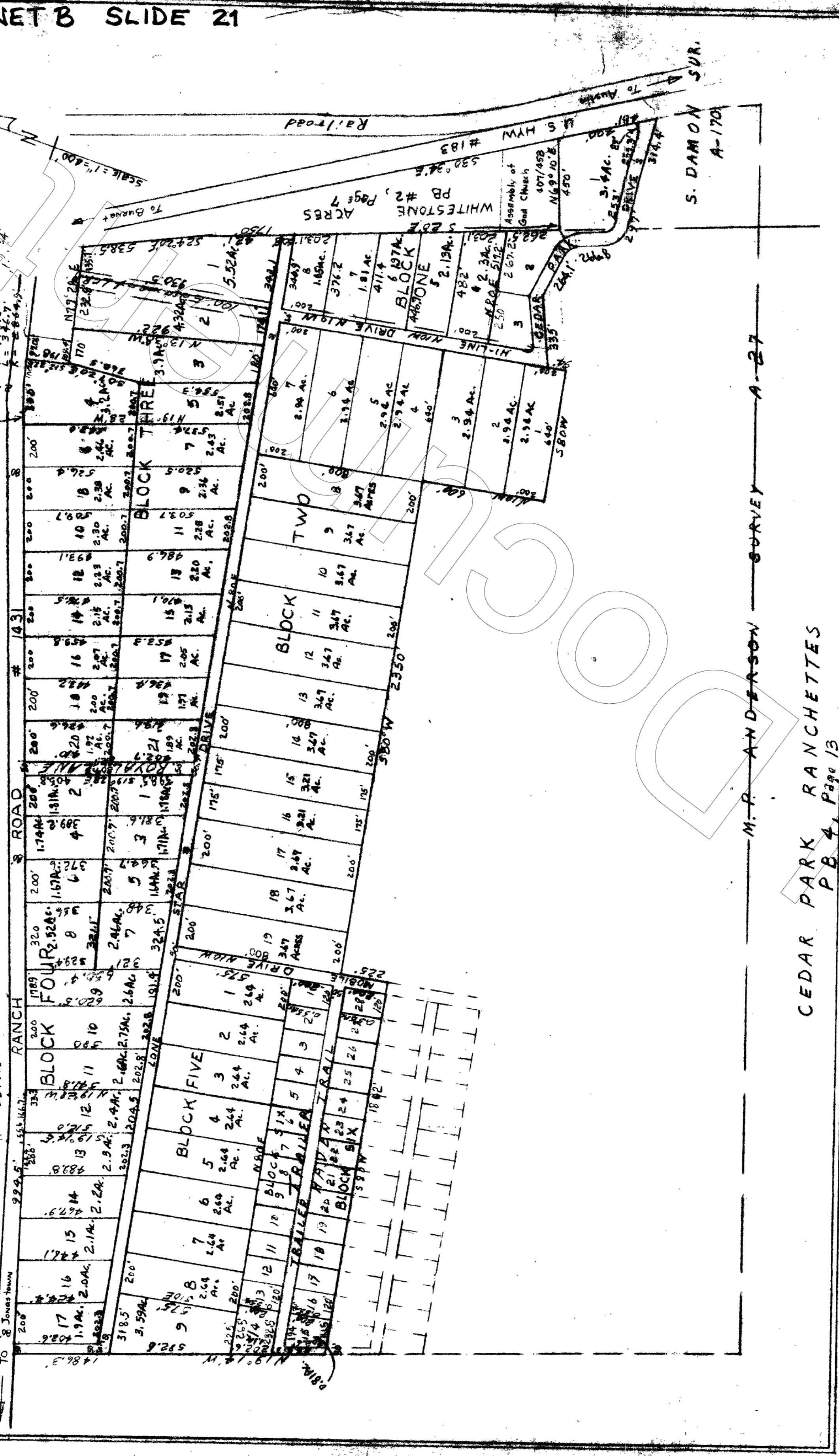
CEDAR PARK RANCHETTES, UNIT TWO
227.5 ACRES IN WILLIAMSON COUNTY, TEXAS
AT CEDAR PARK, TEXAS

See Resub of part of Units
2 & 3 in Cab. B, Slide 35

CABINET B SLIDE 21

5446

6 1431 Curve Data
Δ = 3° 18'
DE = 9.56'
T = 216.0'
L = 3813.6'



BEING RECEIVED BY THE COMMISSIONERS COURT OF WILLIAMSON COUNTY, TEXAS

1. That the owner, Thomas R. Joseph, Jr., of that certain tract of land designated as "CEDAR PARK RANCHETTES, UNIT TWO", adjacent to Cedar Park, Texas, is hereby authorized to file for record in the office of the County Clerk of Williamson County, Texas, the map or plat of said tract shown hereon, and said County Clerk of Williamson County, Texas, is hereby authorized to accept for filing and to record said map or plat of said tract of land.

2. In approving this plat by the Commissioners Court of Williamson County, Texas, it is understood that the building of all streets, roads, and other public thoroughfares delineated and shown on this plat, and all culverts necessary to be constructed or placed in such streets, roads, etc., or in connection therewith, shall be the responsibility of the owner or developers of the land covered by this plat in accordance with plans and specifications prescribed by the Commissioners Court of Williamson County, Texas, and the Commissioners Court assumes no responsibility or obligation to build the streets, roads, etc., shown on this plat or of constructing any bridges or culverts in connection therewith, or maintaining same.

ADOPTED AND APPROVED this the 14th day of March, 1966 A.D.

[Signature]
Sam V. Stone, County Judge

ATTEST:
I, Sam V. Stone, County Judge of Williamson County, Texas, do hereby certify that the above and foregoing resolution is a true and correct exemplification of the original resolution passed and adopted by the Commissioners Court of Williamson County, Texas, at the regular meeting duly held at Georgetown, Texas, on the 14th day of March, 1966 A.D., at which time a quorum was present.

[Signature]
Sam V. Stone, County Judge

THE STATE OF TEXAS
COUNTY OF WILLIAMSON

BEFORE ME, the undersigned authority, a Notary Public in and for said County and State, on this day personally appeared Sam V. Stone, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same in the capacity of County Judge and chairman of the Commissioners Court of Williamson County, Texas, and that he executed the same for the purposes and considerations therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, This the 14th day of March, 1966 A.D.



[Signature]
NOTARY PUBLIC IN AND FOR WILLIAMSON COUNTY, TEXAS

STATE OF TEXAS
COUNTY OF WILLIAMSON

I, W. Forest, a Registered Public Surveyor, do hereby certify

that I surveyed on the ground the perimeter of the above Platted "CEDAR PARK RANCHETTES UNIT TWO" on the ground, and prepared said Plat, and that the data shown thereon is true and correct, to the best of my knowledge and belief.

Perimeter Description

BEING 227.5 acres in Williamson County, Texas, 4.1 acres of the S. Damon Survey, Abst. # 170, and 223.4 acres of the M.P. Anderson Survey, Abst. # 27, part of a tract of 428.95 acres described in a deed from D.H. Burrell to Tom Joseph, dated July 12, 1965, of record in Vol. 479, page 479, Deed Records of Williamson County, Texas.

BEGINNING at the N.W. corner of the 428.95 acres, in the West line of the Anderson Survey, S 19° E 40 feet from the N.W. corner of same.

THENCE N 73° 05' E 994.5 feet to a R.O.W. marker in the South line of Ranch Road # 1431, at the Beginning of a 1 deg. 30 min. curve to the left, whose central angle is 36.81;

THENCE around the curve, N 73° 05' E 101 feet, N 71° 35' E 101.1 feet, and N 70° 41' E 20.2 feet to the end of the curve.

THENCE N 70° 32' E 3235.3 feet to a R.O.W. marker at the Beginning of a 2 deg. curve to the right, whose central angle is 65° 56'.

THENCE around the curve, N 71° 32' E 98.6 feet, N 73° 32' E 98.6 feet, and N 75° E 47.5 feet.

THENCE S 12° 32' E 198.2 feet.

THENCE N 77° 28' E 567.2 feet.

THENCE S 24° 20' E 338.5 feet.

THENCE S 20° E 1750 feet.

THENCE S 30° 34' E 481 feet, to the S.E. corner of this Subdivision.

S 83° 19' W 297 feet, N 22° 05' W 266.8 feet, N 81° W 264.1 feet, and S 66° W 335 feet.

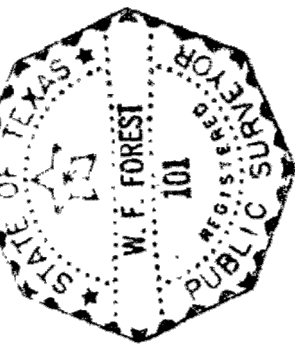
THENCE S 10° E 94 feet, S 80° W 640 feet, N 10° W 600 feet, S 80° W 2350 feet, S 10° E 225 feet, S 80° W 1802 feet.

THENCE N 19° 14' W 1486.3 feet to the POINT OF BEGINNING.

TO CERTIFY WHICH, WITNESS my hand and seal at Georgetown, Texas, this the 14th day of March, 1966 A.D.

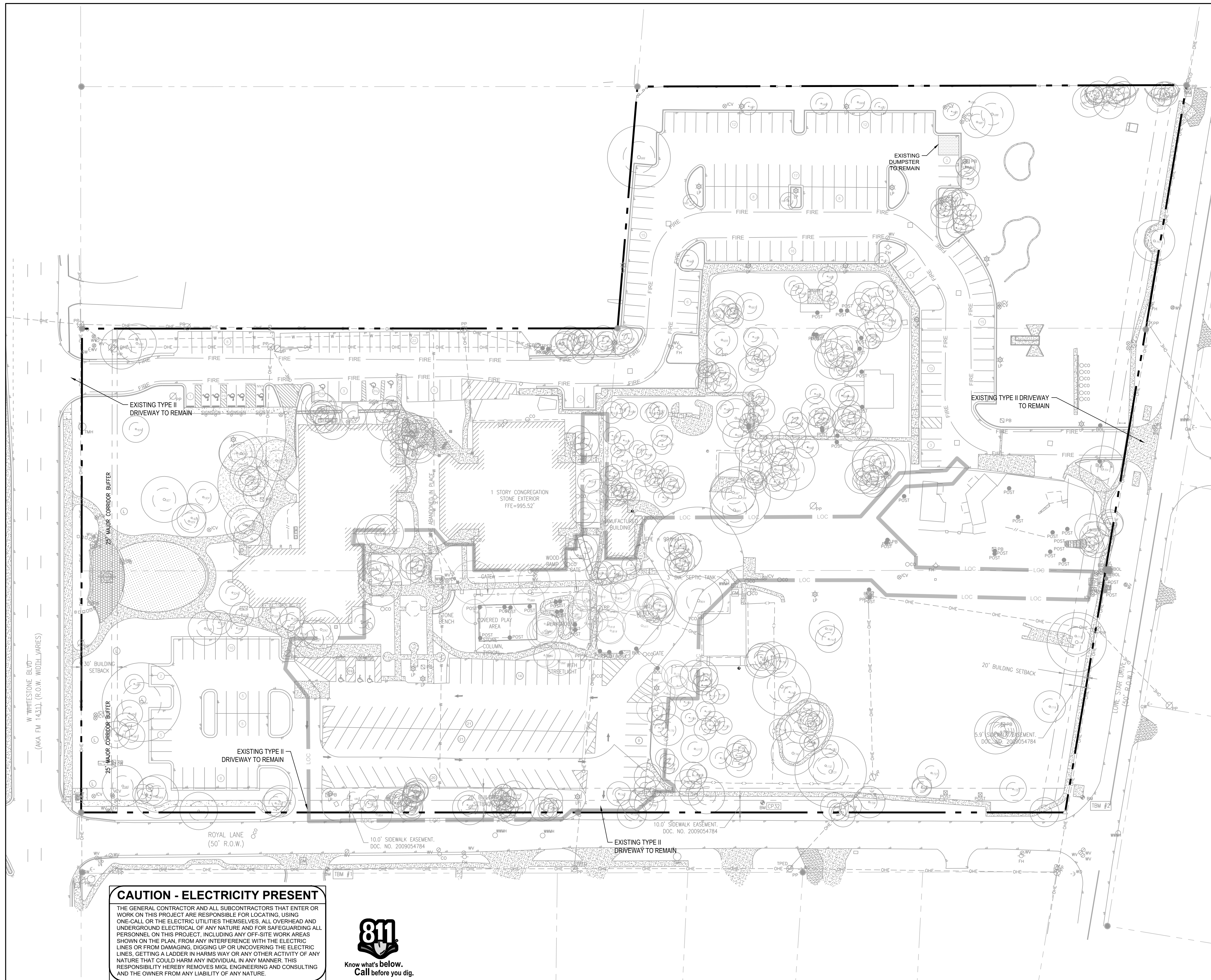
41

[Signature]
W. FOREST
REGISTERED PUBLIC SURVEYOR # 101



SHEET TITLE		CLIENT		PROJECT	
PLAT		GOOD SHEPHERD LUTHERAN CHURCH		NEW SANCTUARY 700 W WHITESTONE BOULEVARD CEDAR PARK, TEXAS 78613	
PROJECT NO.	0207.002	NO.	DATE	REVISIONS	RECORD
SHEET NO.	5				
5 OF 35					

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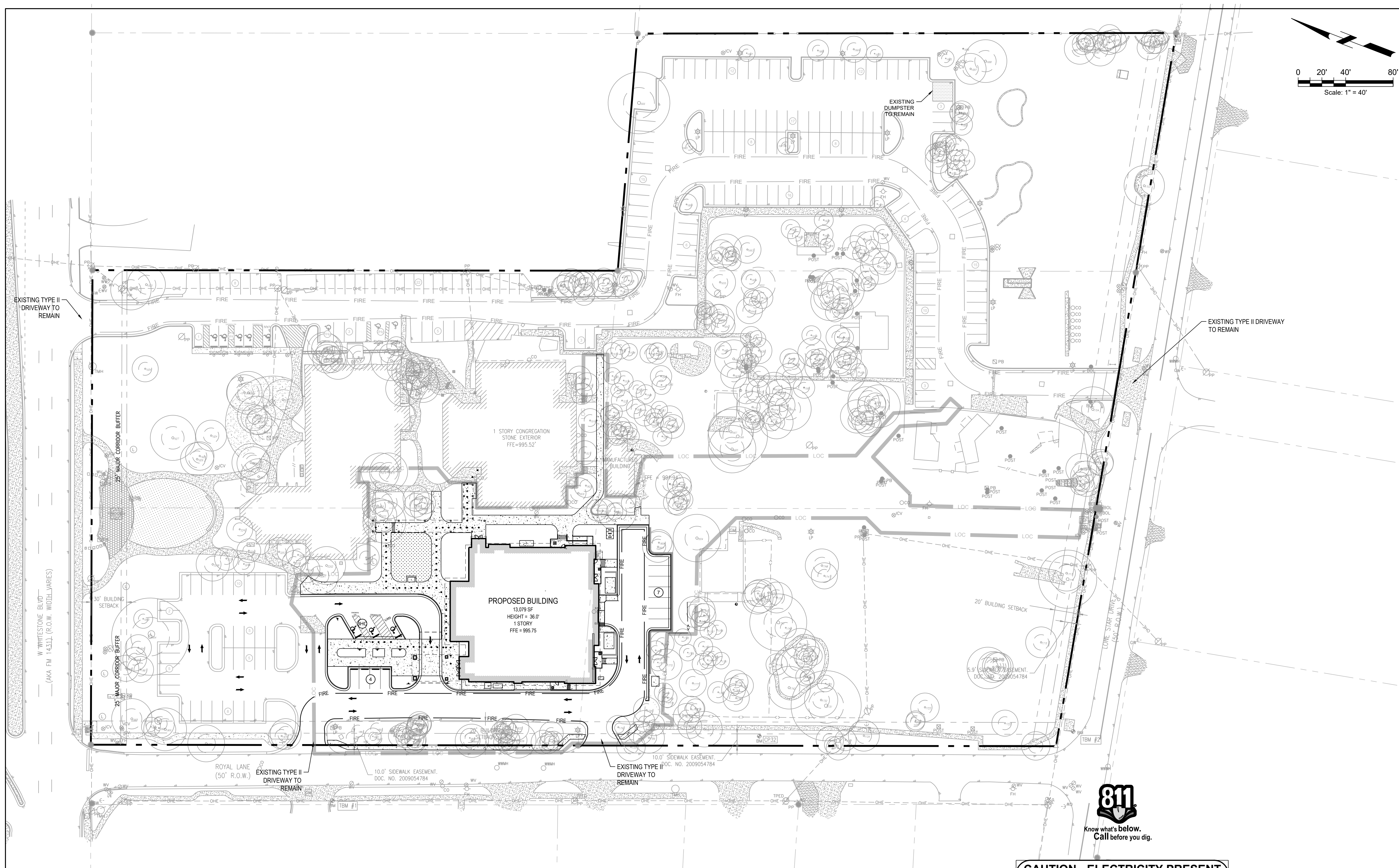


NOTES:

1. LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES MATERIAL, SIZE AND EXACT LOCATION, HORIZONTALLY AND VERTICALLY, PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR.
2. SHOULD THE CONTRACTOR FIND DISCREPANCIES WITH RECORD INFORMATION DRAWN/NOTED ON THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF SUCH CONDITIONS.
3. THE CONTRACTOR SHALL CONTACT THE AREA "ONE CALL" AT SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS.
4. ANY DAMAGE TO EXISTING IMPROVEMENTS SUCH AS PAVEMENT, SIDEWALKS, CURB AND GUTTERS CAUSED BY THE INSTALLATION OF IMPROVEMENTS SHALL BE REPAIRED TO LIKE NEW CONDITION.

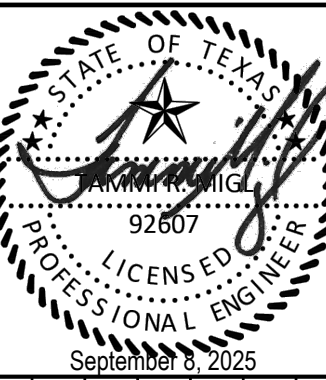
[illegible]

Sheet Title	Existing Conditions Plan
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CAUTION - ELECTRICITY PRESENT

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[illegible]

GOOD SHEPHERD LUTHERAN CHURCH

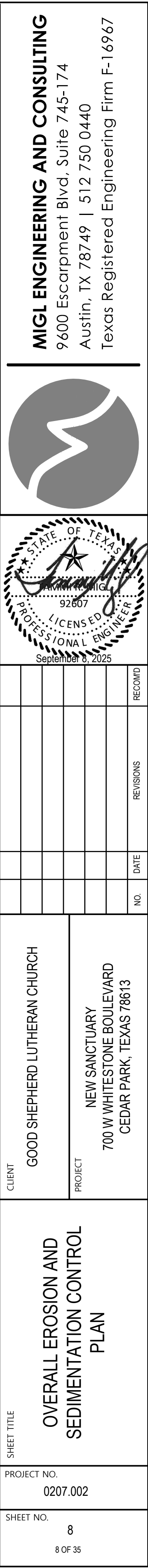
NEW SANCTUARY
700 W WHITESTONE BOULEVARD
CEDAR PARK, TEXAS 78613

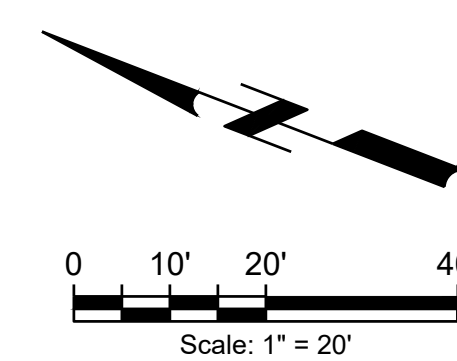
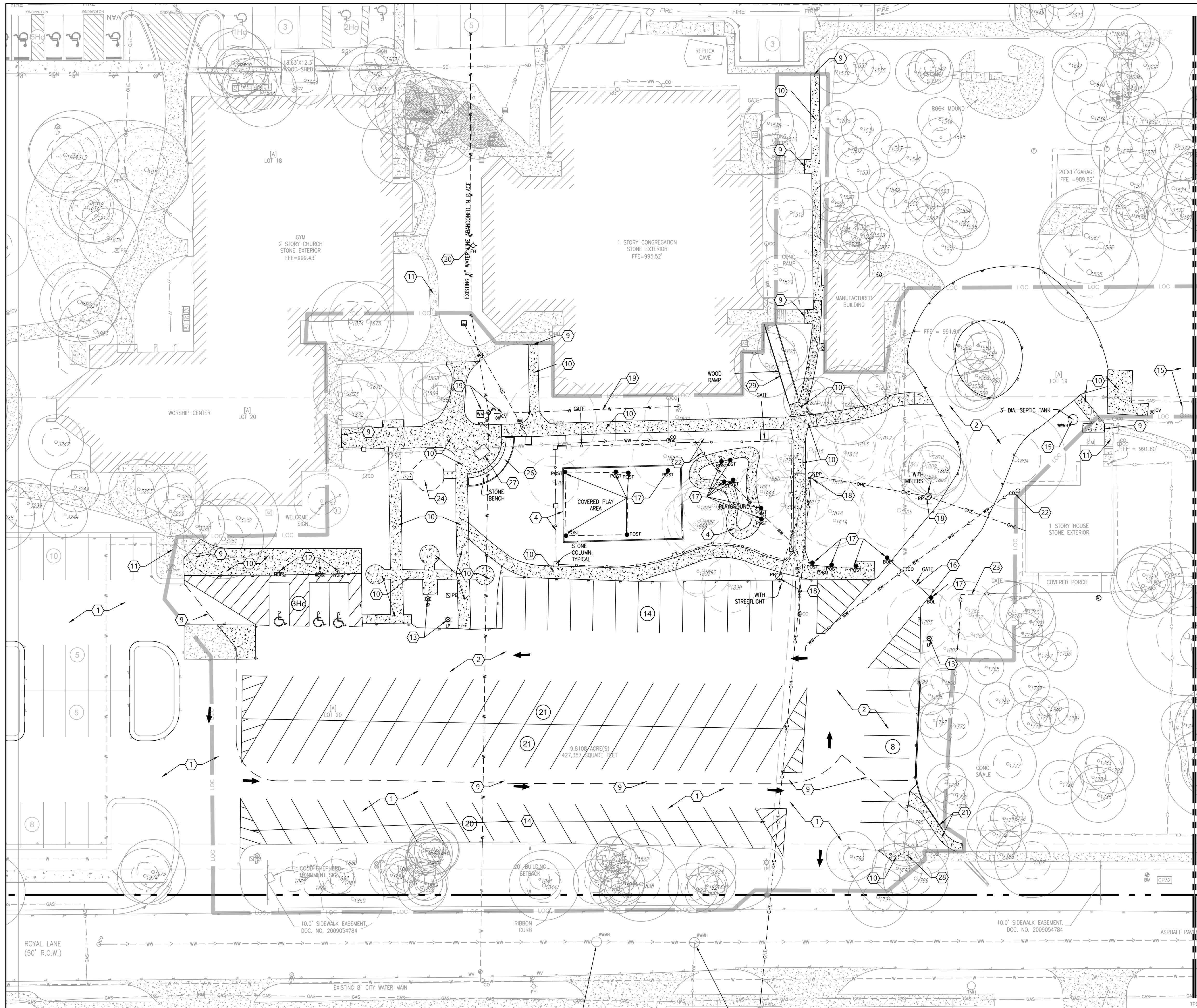
OVERALL PROPOSED MASTER PLAN

SHEET TITLE

PROJECT NO. 0207.002

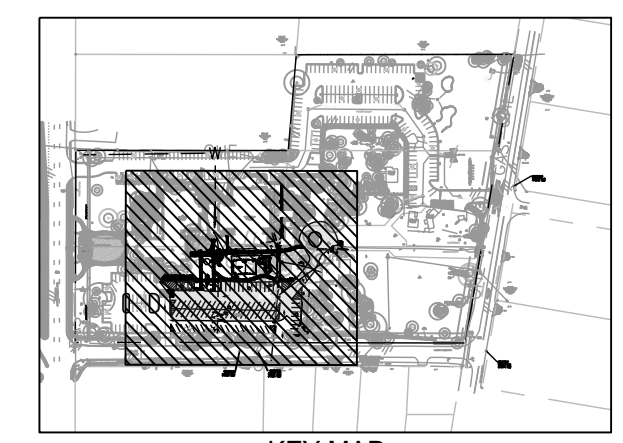
SHEET NO. 7
7 OF 35





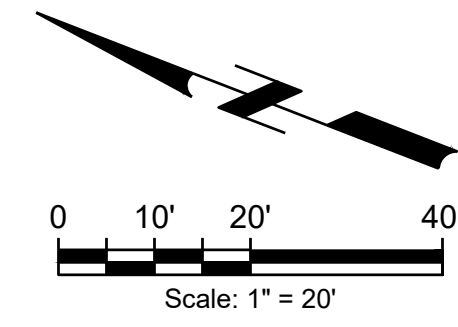
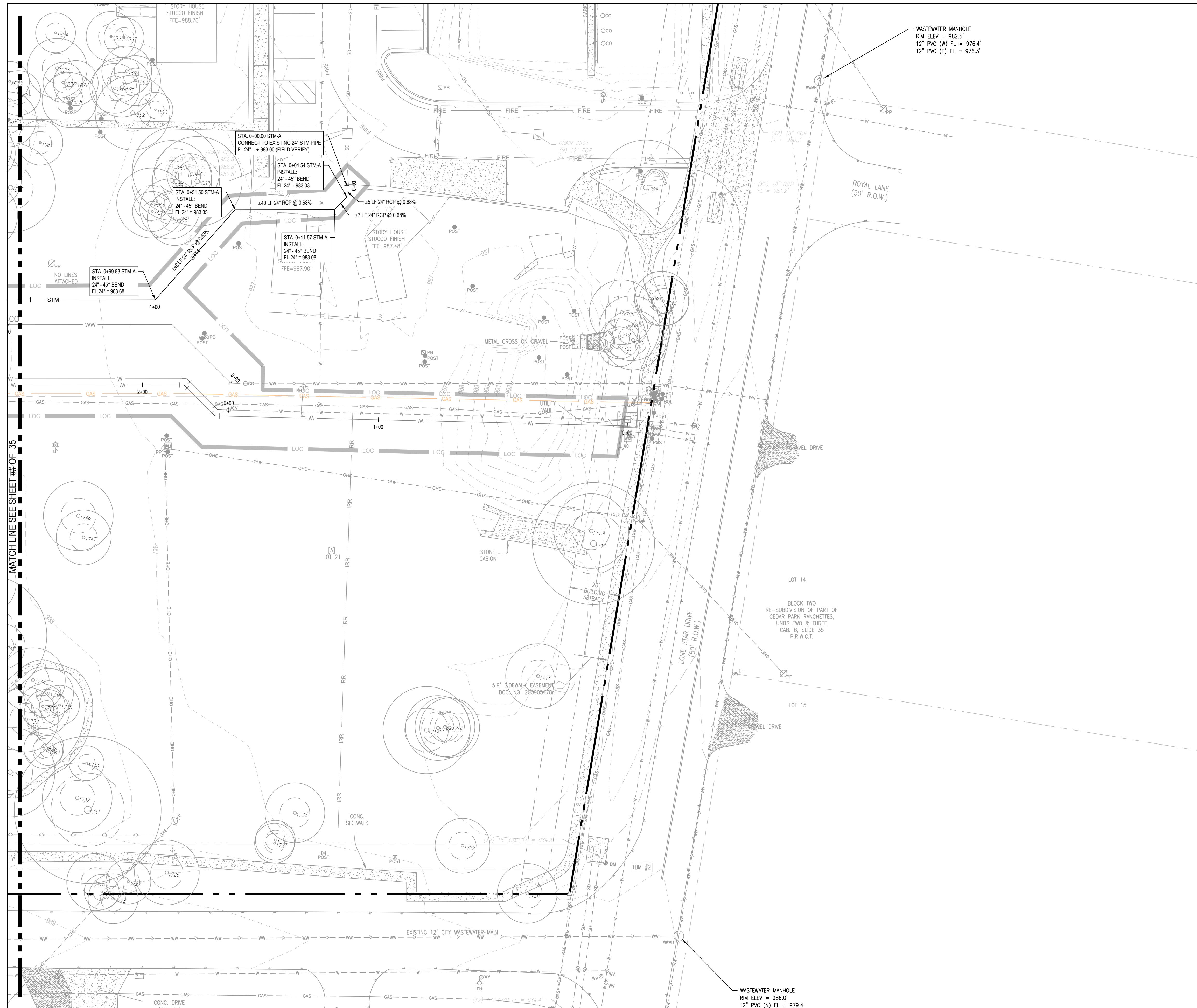
- NOTES:**
1. LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES MATERIAL, SIZE AND EXACT LOCATION, HORIZONTAL AND VERTICALLY, PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR.
 2. SHOULD THE CONTRACTOR FIND DISCREPANCIES WITH RECORD INFORMATION DRAWN/NOTED ON THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF SUCH CONDITIONS.
 3. THE CONTRACTOR SHALL CONTACT THE AREA "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS.
 4. ANY DAMAGE TO EXISTING IMPROVEMENTS SUCH AS PAVEMENT, SIDEWALKS, CURB AND GUTTERS CAUSED BY THE INSTALLATION OF IMPROVEMENTS SHALL BE REPAIRED TO LIKE NEW CONDITION.

- | | | | |
|----|--|----|---|
| 1 | EXISTING PAVEMENT TO REMAIN | 19 | EXISTING BUILDINGS SERVED BY THIS WATERLINE WILL BE REFEED AS SHOWN ON THE PROPOSED UTILITY PLAN. REMOVE EXISTING WATER METER AND RETURN TO THE CITY OF CEDAR PARK. REMOVE EXISTING BACKFLOW PREVENTER. |
| 2 | REMOVE EXISTING ASPHALT | 20 | REMOVE EXISTING FIRE HYDRANT |
| 3 | EXISTING CONCRETE CURB TO REMAIN | 21 | REMOVE EXISTING CONCRETE DRAINAGE FLUME |
| 4 | REMOVE EXISTING PLAY AREA AND FENCE | 22 | CAP AND ABANDON EXISTING WASTEWATER LINE |
| 5 | EXISTING PAVED ROADWAY | 23 | REMOVE EXISTING FENCE |
| 6 | EXISTING PUBLIC WATER MAIN TO BE ABANDONED | 24 | EXISTING GAZEBO TO BE RELOCATED BY OWNER |
| 7 | EXISTING PUBLIC WASTEWATER MAIN TO REMAIN | 25 | EXISTING DOWNSPOUT TO BE RECONNECTED TO NEW STORM SEWER. REFERENCE DRAINAGE PLAN. |
| 8 | EXISTING POWER POLE | 26 | EXISTING STONE BENCH TO BE REMOVED |
| 9 | SAWCUT LINE | 27 | EXISTING BELL TOWER TO BE RELOCATED. REFERENCE SITE PLAN. |
| 10 | EXISTING EXISTING SIDEWALK | 28 | REMOVE EXISTING SIDEWALK UP TO JOINT. REFER TO SITE PLAN ON SHEET 13 FOR NEW SIDEWALK LAYOUT. |
| 11 | EXISTING SIDEWALK TO REMAIN | 29 | REMOVE EXISTING RAMP |
| 12 | REMOVE EXISTING HC SIGNAGE | | |
| 13 | REMOVE EXISTING LIGHT POLE | | |
| 14 | REMOVE EXISTING STRIPING | | |
| 15 | SEPTIC SYSTEM TO BE REMOVED | | |
| 16 | REMOVE EXISTING GATE | | |
| 17 | REMOVE EXISTING BOLLARD/POST (TYP) | | |
| 18 | REMOVE EXISTING POWER POLE AND OHE | | |



CAUTION - ELECTRICITY PRESENT





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[illegible]

CLIENT	GOOD SHEPHERD LUTHERAN CHURCH
PROJECT	NEW SANCTUARY 700 W WHITESTONE BOULEVARD CEDAR PARK, TEXAS 78613

SHEET TITLE	PROPOSED DRAINAGE PLAN (2 OF 2)
	PROJECT NO. 0207.002
	SHEET NO. 17

EXISTING POND STORM ELEVATIONS (ATLAS 14):

2-YEAR STORM = 980.16
10-YEAR STORM = 981.13
25-YEAR STORM = 981.63
100-YEAR STORM = 982.42

LEGEND

- > —● SHEET FLOW
● >> —● SHALLOW CONCENTRATED FLOW
● >>> —● CHANNEL FLOW
- - - - - EXISTING DRAINAGE AREA DELINEATION
← FLOW DIRECTION

A
XX.XX AC

A
8.86 AC

SCS TR-55 TIME OF CONCENTRATION AND TRAVEL TIME - EXISTING CONDITIONS

DRAINAGE AREA "A"

FLOW TYPE	LENGTH (FT)	SLOPE (ft/ft)	SURFACE	MANNINGS "N"	AREA (SF)	WP (FT)	VELOCITY (FPS)	TRAVEL TIME
SHEET	100	0.0300	e	0.15	n/a	n/a	n/a	0.122 hours
SHALLOW CONCENTRATED	500	0.0200	p	n/a	n/a	n/a	2.87	0.048 hours
SHALLOW CONCENTRATED	350	0.0200	u	n/a	n/a	n/a	2.28	0.043 hours
OPEN CHANNEL			n/a	-	-	-	-	0.000 hours

Time of Concentration 0.213 hours

Lag Time 7.668 minutes

WASTEWATER MANHOLE
RIM ELEV = 994.2'
6" PVC (N) FL = 990.5'
6" RCP (S) FL = 990.0'

WASTEWATER MANHOLE
RIM ELEV = 993.5'
6" PVC (N) FL = 989.3'
8" PVC (S) FL = 989.3'
8" PVC (W) FL = 989.3'

WASTEWATER MANHOLE
RIM ELEV = 986.0'
12" PVC (N) FL = 979.4'
12" PVC (W) FL = 979.0'
15" RCP (E) FL = 978.9'



Know what's below.
Call before you dig.

CAUTION - ELECTRICITY PRESENT

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS THAT ENTER OR WORK ON THIS PROJECT ARE RESPONSIBLE FOR LOCATING, USING ONE-CALL OR THE ELECTRIC UTILITIES THEMSELVES, ALL OVERHEAD AND UNDERGROUND ELECTRICAL OF ANY NATURE AND FOR SAFEGUARDING ALL PERSONNEL ON THIS PROJECT, INCLUDING ANY OFF-SITE WORK AREAS SHOWN ON THE PLAN, FROM ANY INTERFERENCE WITH THE ELECTRIC LINES OR FROM DAMAGING, DIGGING UP OR UNCOVERING THE ELECTRIC LINES, GETTING A LADDER IN HARMS WAY OR ANY OTHER ACTIVITY OF ANY NATURE THAT COULD HARM ANY INDIVIDUAL IN ANY MANNER. THIS RESPONSIBILITY HEREBY REMOVES MIGL ENGINEERING AND CONSULTING AND THE OWNER FROM ANY LIABILITY OF ANY NATURE.

MIGL ENGINEERING AND CONSULTING

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Austin, TX 78749 | 512.750.0440

Texas Registered Engineering Firm F-16967



CLIENT
GOOD SHEPHERD LUTHERAN CHURCH

PROJECT
NEW SANCTUARY
700 W WHITESTONE BOULEVARD
CEDAR PARK, TEXAS 78613

SHEET TITLE
EXISTING DRAINAGE AREA
MAP

PROJECT NO.
0207.002

SHEET NO.
C18
18 OF 35

DRAINAGE AREA SUMMARY TABLE ATLAS 14				
Good Shepherd Lutheran Church				
DRAINAGE AREA	EXISTING		PROPOSED	
EX A	POND		A	POND
AREA (MI ²)	0.01384375		0.01384375	
Area (AC)	8.860		8.860	
CN	88.61		93.01	
% IC	47.86%		72.29%	
24 HR STORM				
2 - YR	23.55	14.35	33.80	15.78
10 - YR	39.20	22.49	53.34	27.93
25 - YR	54.87	32.85	73.27	37.52
100 - YR	69.25	42.40	90.51	47.23

72.29% impervious cover of Drainage area A = to 65% of total site area

DRAINAGE AREA SUMMARY TABLE SD-08-00030				
Good Shepherd Lutheran Church				
DRAINAGE AREA	EXISTING		PROPOSED	
EX A	POND		A	POND
AREA (MI ²)	0.01384375		0.01384375	
Area (AC)	8.860		8.860	
CN	84.52		93.01	
% IC	25.12%		72.29%	
24 HR STORM				
2 - YR	16.81		30.92	16.81
10 - YR	28.80		48.70	12.77
25 - YR	33.95		57.40	33.95
100 - YR	47.61		77.69	47.61

POND STORM ELEVATIONS (ATLAS 14):
2-YEAR STORM = 980.50
10-YEAR STORM = 981.34
25-YEAR STORM = 981.98
100-YEAR STORM = 982.80
TOP OF POND BERM = 984.00

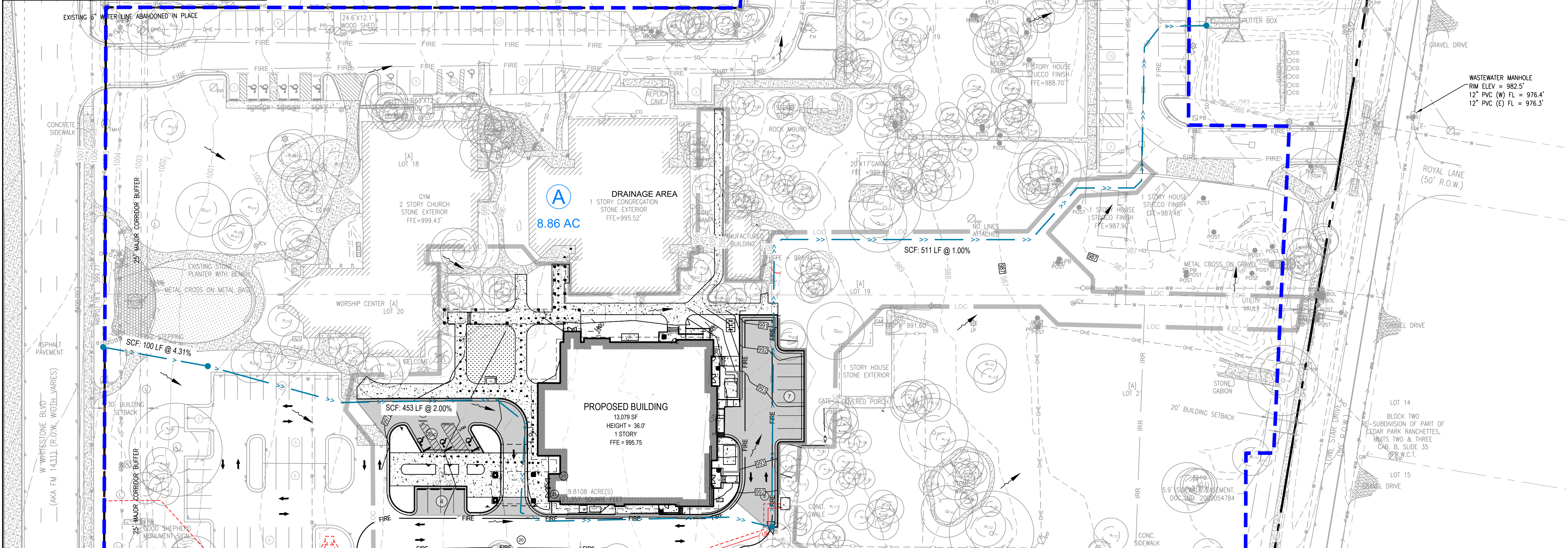
LEGEND

- SHEET FLOW
- SHALLOW CONCENTRATED FLOW
- CHANNEL FLOW
- PROPOSED DRAINAGE AREA DELINEATION
- FLOW DIRECTION

A

8.86 AC

DRAINAGE AREA



SCS TR-55 TIME OF CONCENTRATION AND TRAVEL TIME - PROPOSED CONDITIONS

DRAINAGE AREA "A"								
FLOW TYPE	LENGTH (FT)	SLOPE (ft/ft)	SURFACE	MANNINGS "N"	AREA (SF)	WP (FT)	VELOCITY (FPS)	TRAVEL TIME
SHEET	100	0.0431	e	0.15	n/a	n/a	n/a	0.106 hours
SHALLOW CONCENTRATED	453	0.0200	p	n/a	n/a	n/a	2.87	0.044 hours
SHALLOW CONCENTRATED	511	0.0080	p	n/a	n/a	n/a	1.82	0.078 hours
OPEN CHANNEL			n/a	-	-	-	-	0.000 hours
Time of Concentration							0.227 hours	
Lag Time							8.188 minutes	

WASTEWATER MANHOLE
RIM ELEV = 994.2'
6" PVC (N) FL = 990.5'
6" RCP (S) FL = 990.0'

WASTEWATER MANHOLE
RIM ELEV = 993.5'
6" PVC (N) FL = 989.3'
8" PVC (S) FL = 989.3'
8" PVC (W) FL = 989.3'

WASTEWATER MANHOLE
RIM ELEV = 986.0'
12" PVC (N) FL = 979.4'
12" PVC (W) FL = 979.0'
15" RCP (E) FL = 978.9'

CAUTION - ELECTRICITY PRESENT

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS THAT ENTER OR WORK ON THIS PROJECT ARE RESPONSIBLE FOR LOCATING, USING ONE-CALL OR THE ELECTRIC UTILITIES THEMSELVES, ALL OVERHEAD AND UNDERGROUND ELECTRICAL OF ANY NATURE AND FOR SAFEGUARDING ALL PERSONNEL ON THIS PROJECT, INCLUDING ANY OFF-SITE WORK AREAS SHOWN ON THE PLAN, FROM ANY INTERFERENCE WITH THE ELECTRIC LINES OR FROM DAMAGING, DIGGING UP OR UNCOVERING THE ELECTRIC LINES, GETTING A LADDER IN HARM'S WAY OR ANY OTHER ACTIVITY OF ANY NATURE THAT COULD HARM ANY INDIVIDUAL IN ANY MANNER. THIS RESPONSIBILITY HEREBY REMOVES MIGL ENGINEERING AND CONSULTING AND THE OWNER FROM ANY LIABILITY OF ANY NATURE.



Know what's below.
Call before you dig.

NOTES:
1. THE ENGINEER HAS REVIEWED PLANS PERTAINING TO THE DESIGN OF THE EXISTING DETENTION FACILITIES AND AGREES WITH THEIR DESIGN. PROPOSED DEVELOPMENT DOES NOT ADVERSELY AFFECT ANY DOWNSTREAM PROPERTIES.

WASTEWATER MANHOLE
RIM ELEV = 982.5'
12" PVC (W) FL = 976.4'
12" PVC (E) FL = 976.3'

MIGL ENGINEERING AND CONSULTING
9600 Escarpment Blvd, Suite 745-174
Austin, TX 78749 | 512 750 0440
Texas Registered Engineering Firm F-16967



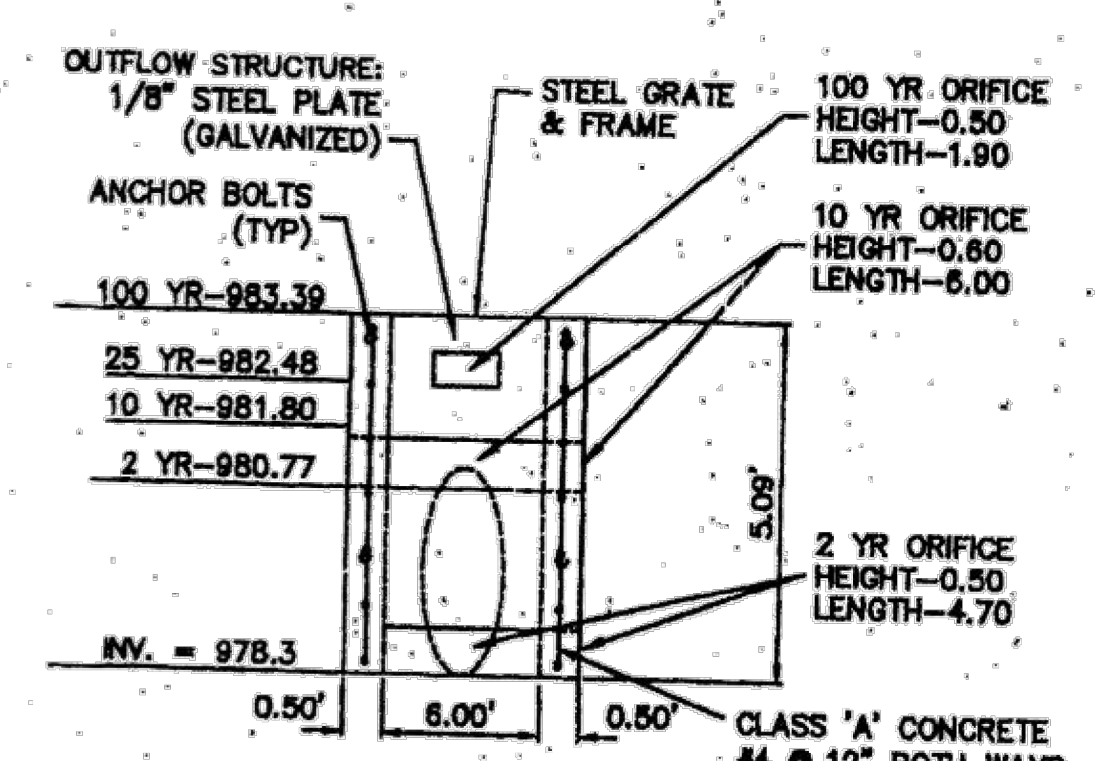
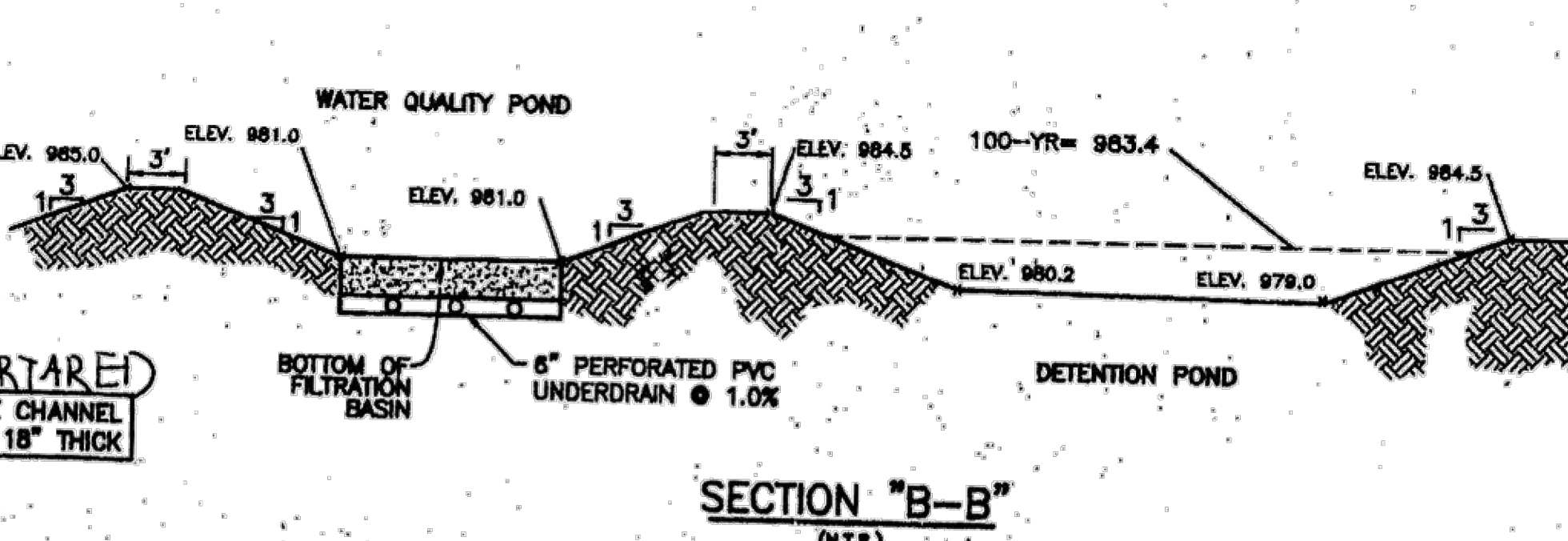
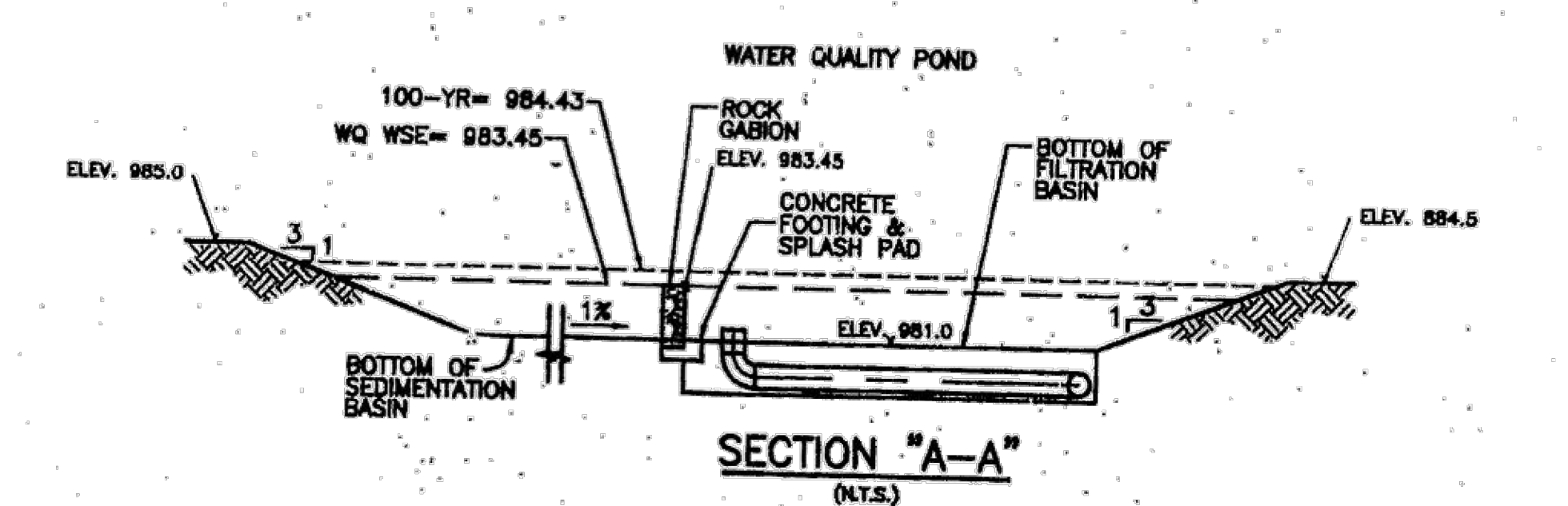
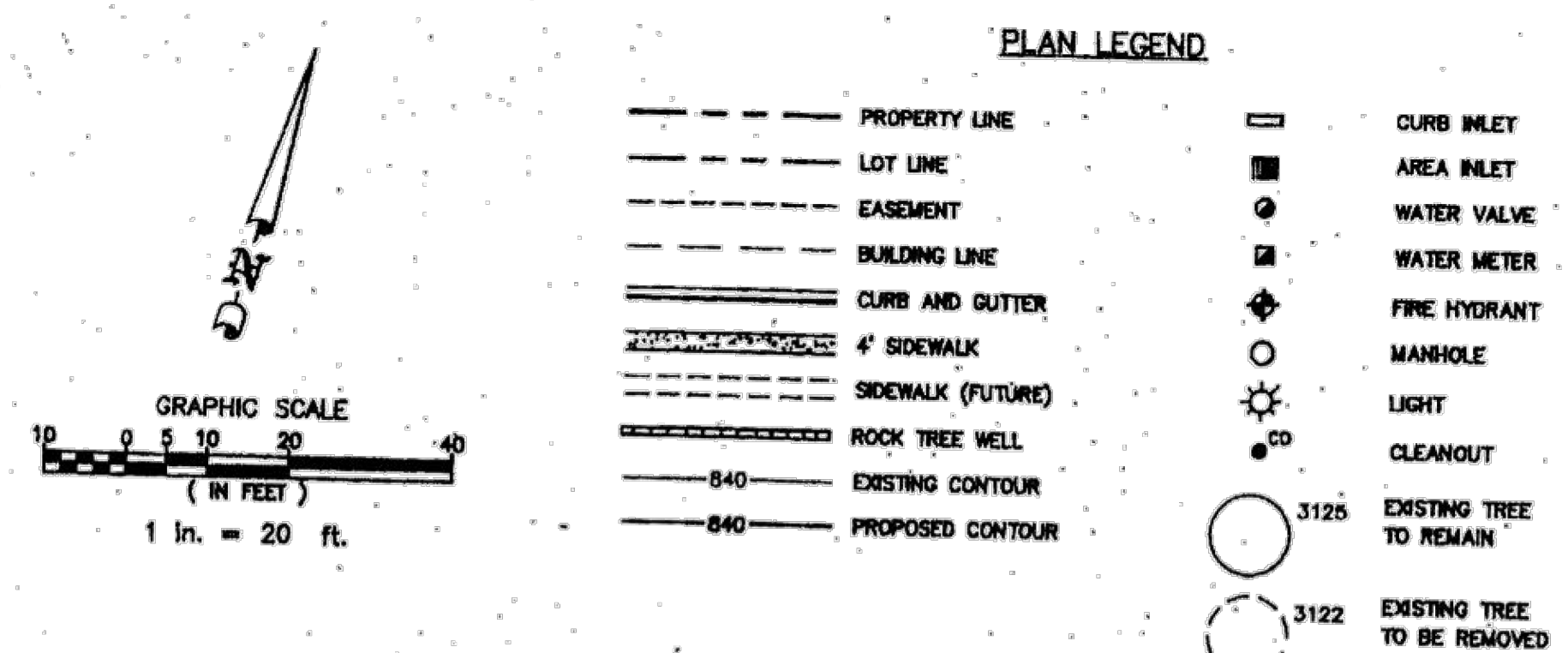
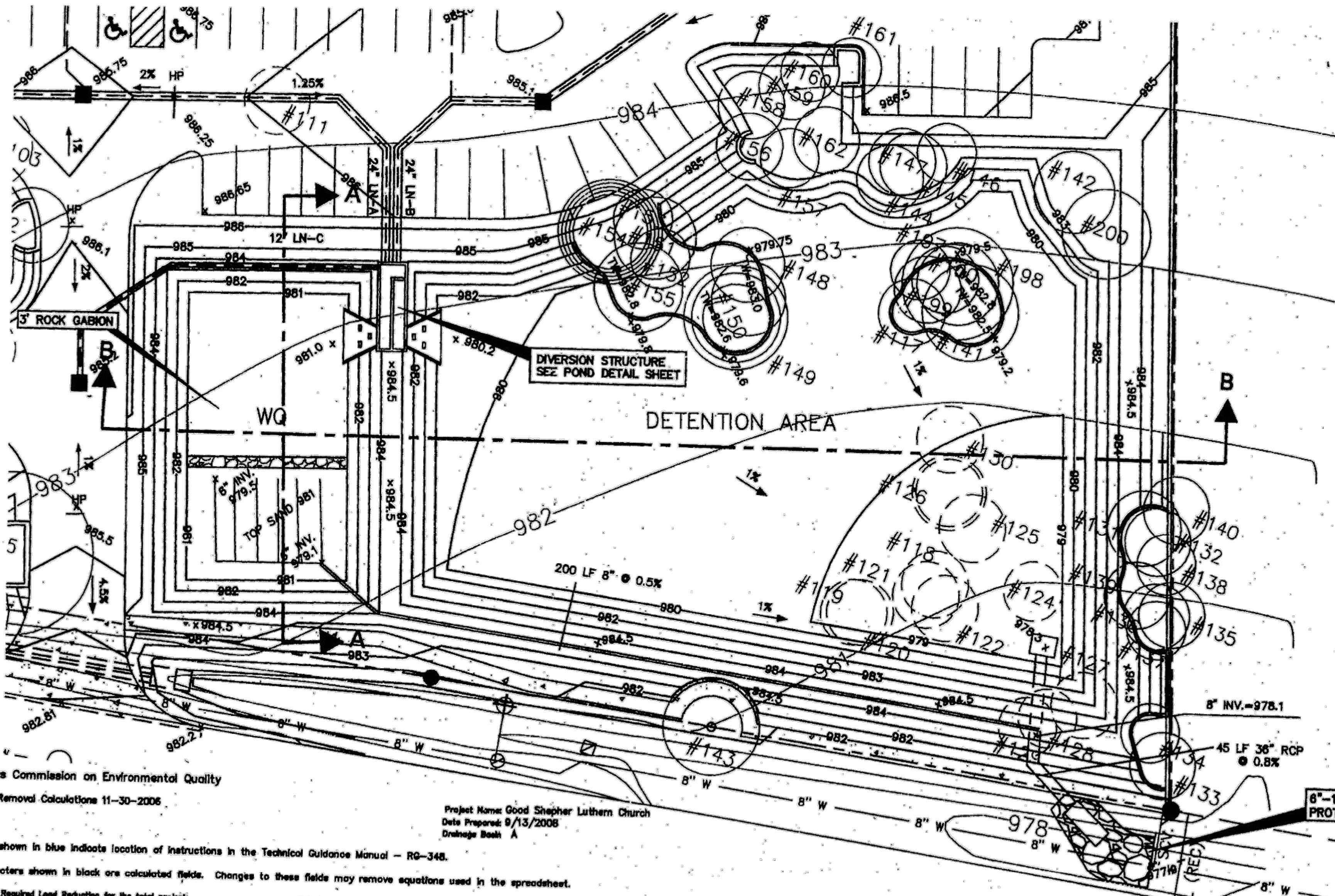
CLIENT
GOOD SHEPHERD LUTHERAN CHURCH

PROJECT
NEW SANCTUARY
700 W WHITESTONE BOULEVARD
CEDAR PARK, TEXAS 78613

SHEET TITLE
PROPOSED DRAINAGE AREA
MAP

PROJECT NO.
0207.002

SHEET NO.
C19
19 OF 35



Texas Commission on Environmental Quality
TSS Removal Calculations 11-30-2006

Text shown in blue indicates location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in black are calculated fields. Changes to these fields may remove equations used in the spreadsheet.

1. The Required Load Reduction for the total project.
Calculations from RG-348 Pages 3-27 to 3-30

where:
LM TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
AN = 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 = 8.85 acres
Predevelopment impervious area within the limits of the plan = 2.23 acres
Total post-development impervious area within the limits of the plan = 6.40 acres
Total post-development impervious cover fraction = 0.72
P = 32 inches

LM TOTAL PROJECT = 3830 lbs.
Number of drainage basins / outfalls areas leaving the plan area = 1

2. Drainage Basin Parameters (This information should be provided for each basin).
Drainage Basin/Outfall Area No. = A
Total drainage basin/outfall area = 8.85 acres
Predevelopment impervious area within drainage basin/outfall area = 2.23 acres
Post-development impervious area within drainage basin/outfall area = 6.40 acres
Post-development impervious fraction within drainage basin/outfall area = 0.72
LM THIS BASIN = 3830 lbs.

3. Indicate the proposed BMP Code for this basin.
Proposed BMP = SF
Removal efficiency = 88 percent

4. Calculate TSS Load Removal (LR) for this Drainage Basin by the selected BMP Type.
RG-348 Page 3-33 Equation 3.3: LR = (BMP efficiency) x P x (AN x 24.2 + AP x 3.64)
where:
AC = Total On-Site drainage area in the BMP catchment area
AI = Impervious area proposed in the BMP catchment area
AP = Pervious area remaining in the BMP catchment area
LR = TSS Load removed from this catchment area by the proposed BMP

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area.
Desired LM THIS BASIN = 3830 lbs.
F = 0.87

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.
Calculations from RG-348 Pages 3-34 to 3-36

Off-site area draining to BMP = 0.00 acres
Off-site impervious cover draining to BMP = 0.00 acres
Impervious fraction of off-site area = 0
Off-site Runoff Coefficient = 0
Off-site Water Quality Volume = 0 cubic feet
Storage for Sediment = 1777 cubic feet
Total Capture Volume (required water quality volume x 1.20) = 10890 cubic feet

7. Filter area for Sand Filters.
Designed as Required in RG-348 Pages 3-58 to 3-63

8. Partial Sedimentation and Filtration System.
Water Quality Volume for combined basins = 10890 cubic feet
Minimum filter basin area = 1088 square feet
Maximum sedimentation basin area = 4284 square feet for minimum water depth of 2 feet
Minimum sedimentation basin area = 267 square feet for minimum water depth of 8 feet

Elevation (feet)	Area (sf)	A1 (sf)	A2 (sf)	Depth (ft)	Incremental Volume (cf)	Storage Volume (cf)
984.0	8,839	4,937	8,839	1.0	5,368	15,438
983.0	4,937	4,937	4,937	1.0	4,937	9,248
982.0	4,106	3,327	4,106	1.0	3,327	5,727
981.0	3,327	0	3,327	0.5	0	0
980.0	0	0	0	0.5	0	0
979.0	0	0	0	0.5	0	0
978.0	0	0	0	0.5	0	0
Interpretation for Water Quality Volume						
Area (sf)	10,890					
100-yr Flow Rate						
Area (sq)	77.00					
Head (ft)	0.88					
Flow (cfs)	77.00					

City of Cedar Park
Development Services
Department
APPROVED
08/21/2023

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PLANNING DEPT.
AUG 07 2009
CITY OF CEDAR PARK

STORAGE VOLUME DESIGN

Centroidal Volumetric Methodology $D(2(A2-A1)/3+A1)$

Elevation (feet)	Area (sf)	A1 (sf)	A2 (sf)	Depth (ft)	Incremental Volume (cf)	Storage (cf)
984.0	25,607	21,310	25,607	1.0	24,175	94,146
983.0	21,310	19,556	21,310	1.0	20,725	69,971
982.0	19,556	17,874	19,556	1.0	18,995	49,246
981.0	17,874	15,576	17,874	1.0	17,108	30,250
980.0	15,576	3,448	15,576	1.0	11,533	13,142
979.0	3,448	0	3,448	0.7	1,609	1,609
978.3	0	0	0	0.0	0	0

Interpolation:

Storm	Volume need	Elevation
100-yr	79,495	983.39
25-yr	57,363	982.48
10-yr	45,005	981.80
2-yr	25,806	980.77

OUTLET DESIGN

2-yr Rectangular Orifice - Qmax (cfs): 16.81			
Flow (cfs)	16.81		
Head (ft)	2.22		
Area (sf)	2.34		
Height (ft)	0.50		
Length (ft)	4.69		

10-yr Rectangular Orifice - Qmax (cfs): 26.80			
2-yr H (ft)	1.55	Flow (cfs)	12.77
2-yr A (sf)	2.34	Head (ft)	0.78
2-yr Q (cfs)	14.03	Area (sf)	3.00
		Height (ft)	0.50
		Length (ft)	6.01

25-yr Rectangular Weir - Qmax (cfs): 33.95			
2-yr H (ft)	2.23	Flow (cfs)	-1.71
2-yr A (sf)	2.34	Head (ft)	0.68
2-yr Q (cfs)	16.85	Length (ft)	-0.91
10-yr H (ft)	1.69		
10-yr A (sf)	3.00		
10-yr Q (cfs)	18.81		

100-yr Rectangular Orifice - Qmax (cfs): 47.61			
2-yr H (ft)	3.14	Flow (cfs)	5.29
2-yr A (sf)	2.34	Head (ft)	1.35
2-yr Q (cfs)	20.02	Area (sf)	0.95
10-yr H (ft)	2.38	Height (ft)	0.50
10-yr A (sf)	3.00	Length (ft)	1.89
10-yr Q (cfs)	22.30		

Spillway Rectangular Weir (storage elev.): 983.39			
2-yr H (ft)	3.14	Height (ft)	0.68
2-yr A (sf)	2.34	Length (ft)	16.00
2-yr Q (cfs)	20.02	Flow (cfs)	29.88
10-yr H (ft)	2.38	Total Flow (cfs)	77.49
10-yr A (sf)	3.00		
10-yr Q (cfs)	22.30		
25,100-yr H (ft)	1.35		
25,100-yr A (sf)	0.95		
25,100-yr Q (cfs)	5.29		

EXISTING CONDITION

AREAS	Drainage Area	Total Area (sf)	Conc/Build Area (sf)	Asphalt Area (sf)	Gross Area (sf)	Values	Sheet	Shallow	Storm Sewer
Length (ft)	100.00	1200.00							
n	0.300	0.100							
Slope	0.030	0.040							
Tc (min)	4.12	10.00							
1	385,748	32,311	84,822	288,815					

COMPOSITE C VALUES	Drainage Area	Conc/Build C's	Asphalt C's	Gross C's	Composite C's	Drainage Calculations	Area (acres)	Tc (used) (min)	Intensity (in/hr)	Q (cfs)
2-year event										
1	0.75	0.73	0.29	0.40	8.86	14	4.72	16.81		
10-year event										
1	0.83	0.81	0.35	0.47	8.86	14	6.48	26.80		
25-year event										
1	0.88	0.86	0.39	0.51	8.86	14	7.52	33.95		
100-year event										
1	0.97	0.95	0.48	0.58	8.86	14	9.19	47.61		

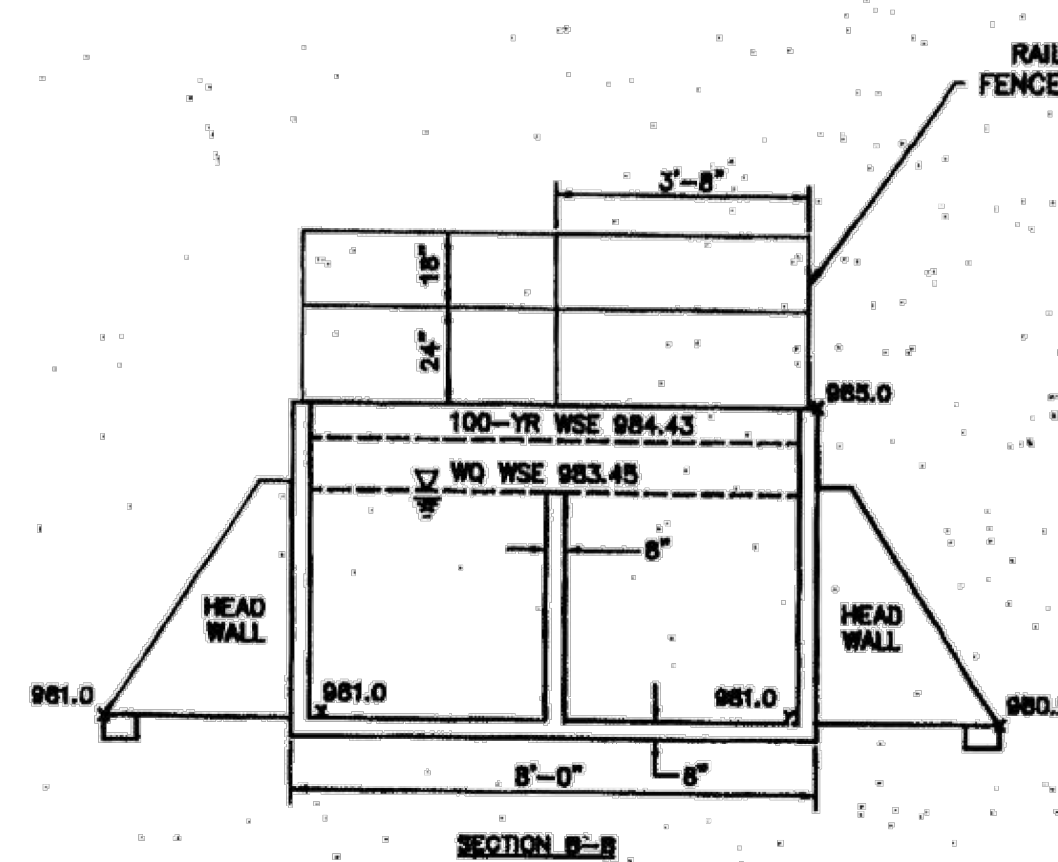
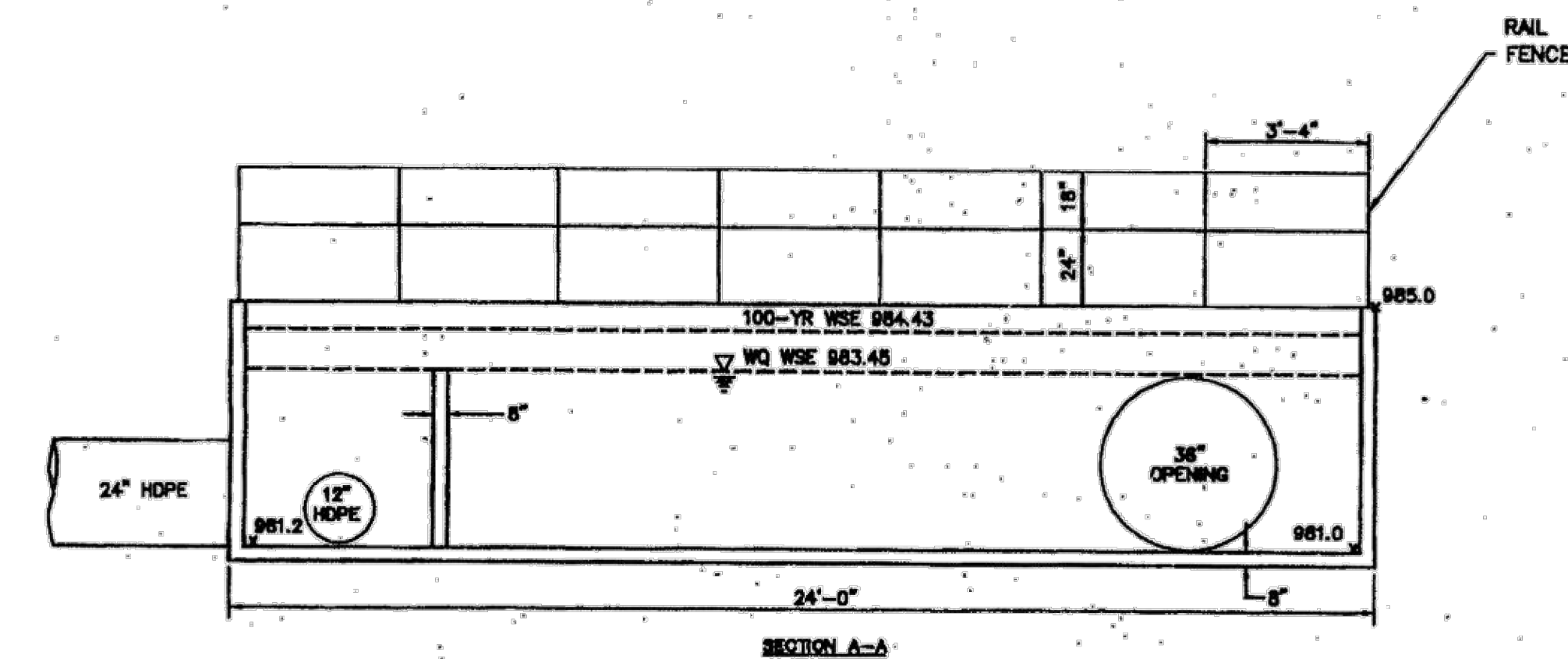
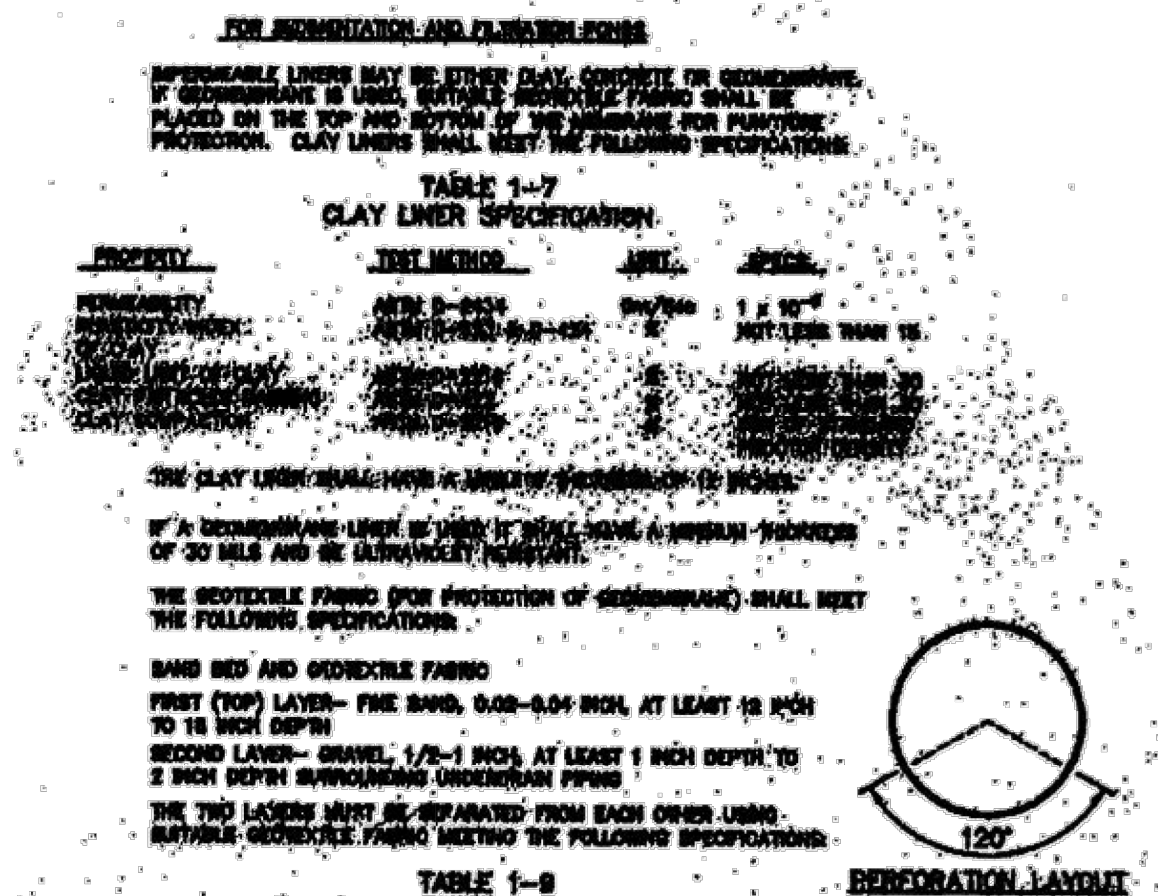
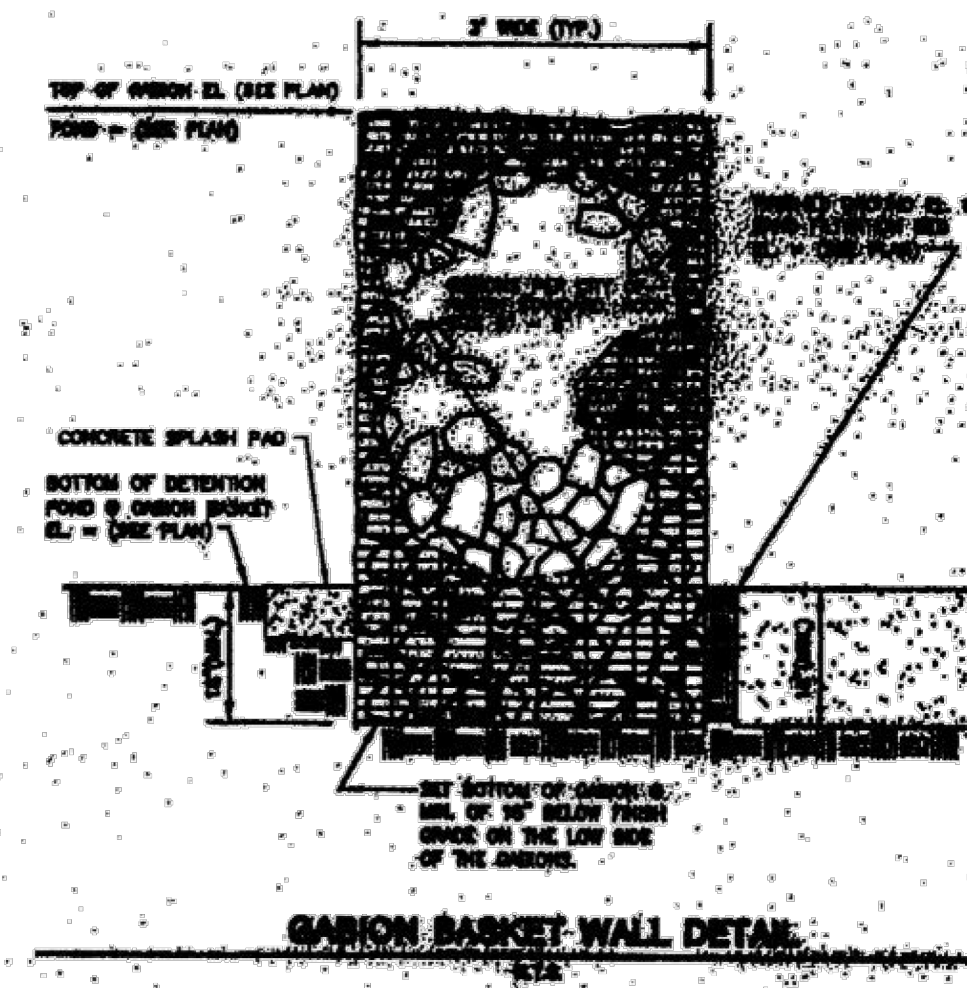
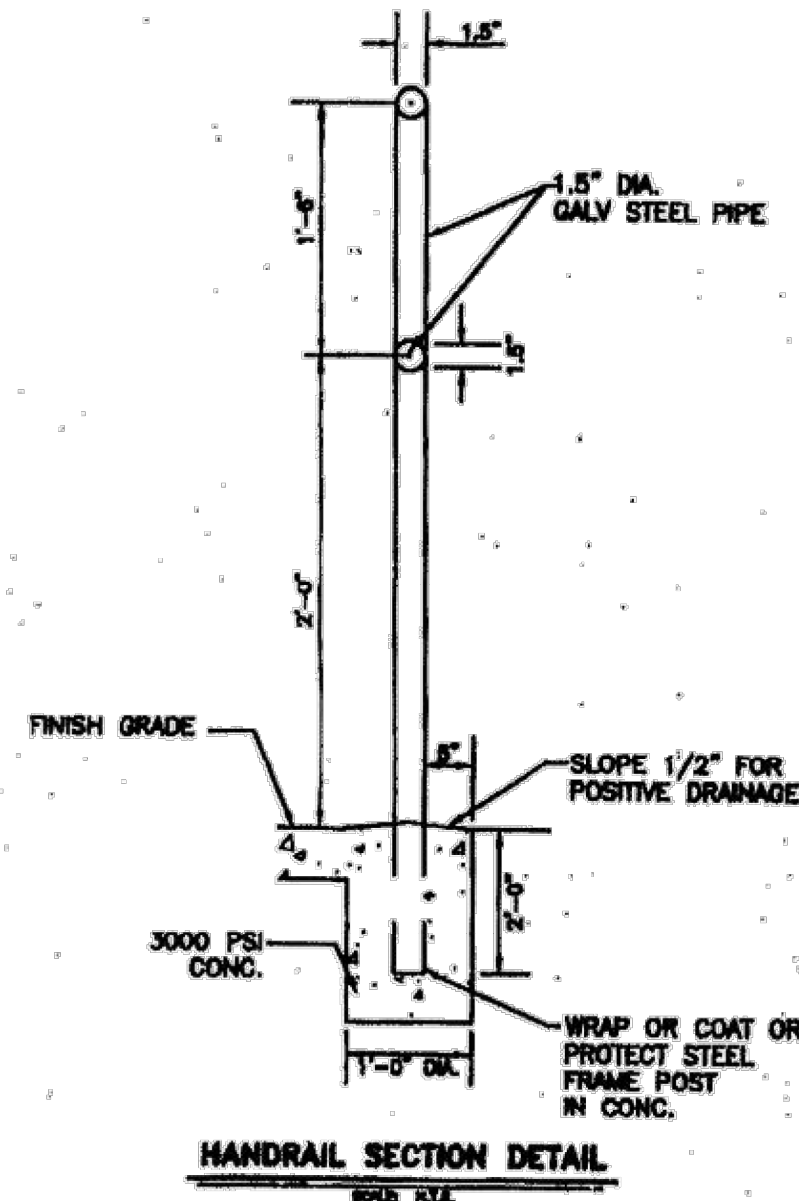
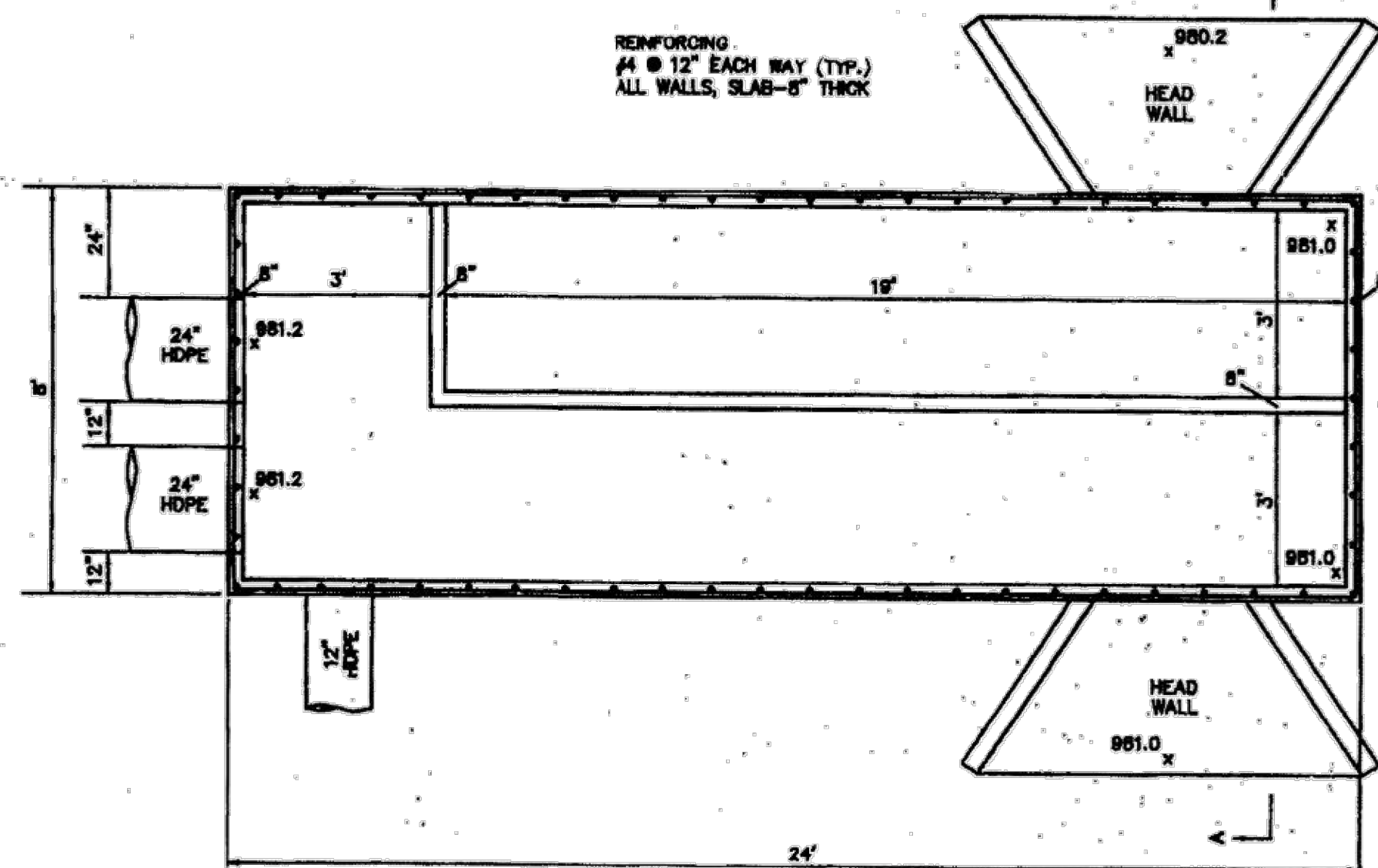
PROPOSED CONDITION

AREAS	Drainage Area	Total Area (sf)	Conc/Build Area (sf)	Asphalt Area (sf)	Gross Area (sf)	Values	Total Tc (min)
Length (ft)	100.00	400.00	868.00				8.33
n	0.300	0.020	0.016				
Slope	0.030	0.020	0.005				
Tc (min)	4.12	0.94	3.28				
1	385,748	92,065	185,921	106,761			

COMPOSITE C VALUES	Drainage Area	Conc/Build C's	Asphalt C's	Gross C's	Composite C's	Drainage Calculations	Area (acres)	Tc (used) (min)	Intensity (in/hr)	Q (cfs)
2-year event										
1	0.75	0.73	0.29	0.41	8.86	8	6.70	30.82		
10-year event										
1	0.83	0.81	0.35	0.49	8.86	8	7.88	48.77		
25-year event										
1	0.88	0.86	0.39	0.73	8.86	8	8.82	67.40		
100-year event										
1	0.97	0.95	0.48	0.82	8.86	8	10.71	77.69		

VOLUME CALCULATIONS

Td Calculations	1st try	2nd try	3rd try	4th try
2-year event				
Assumed Td (min)	30.00	26.26	26.47	26.46
$[(D+b) \cdot e^{-1}] / [e^{(D+b) \cdot e^{-1}}]$	0.7379	0.6409	0.6462	0.6460
2CPAP/QA	0.8480	0.6480	0.6480	0.6480
Adjustment Factor	0.8755	1.0076	0.9997	1.0000
Adjusted Td (min)	26.26	26.47	26.46	26.46
Critical Storm Duration - Td (min)				26.46
Calculated Storage Volume (SD) = $60CP(e^{(D+b) \cdot e^{-1}})APID - 30QA(D+Tc)$				14,999
Intensity at Td (in/hr)				3.5
Required Storage (SR) = $SD(Precipitation \ 3 \ hr \ Storm / Precipitation \ 10 \ Storm)$				25,806
10-year event				
Assumed Td (min)	30.00	30.23	30.26	30.26
$[(D+b) \cdot e^{-1}] / [e^{(D+b) \cdot e^{-1}}]$	0.4808	0.4539	0.4542	0.4543
2CPAP/QA	0.4843	0.4543	0.4543	0.4543
Adjustment Factor	1.0077	1.0006	1.0001	1.0000
Adjusted Td (min)	30.23	30.25	30.26	30.26
Critical Storm Duration - Td (min)				30.26
Calculated Storage Volume (SD) = $60CP(e^{(D+b) \cdot e^{-1}})APID - 30QA(D+Tc)$				23,892
Intensity at Td (in/hr)				4.6
Required Storage (SR) = $SD(Precipitation \ 3 \ hr \ Storm / Precipitation \ 10 \ Storm)$				45,005
25-year event				
Assumed Td (min)	30.00	31.82	31.85	31.88
$[(D+b) \cdot e^{-1}] / [e^{(D+b) \cdot e^{-1}}]$	0.3637	0.3805	0.3829	0.3832
2CPAP/QA	0.3833	0.3833	0.3833	0.3833
Adjustment Factor	1.0839	1.0073	1.0010	1.0001
Adjusted Td (min)	31.82	31.85	31.88	31.88
Critical Storm Duration - Td (min)				31.88
Calculated Storage Volume (SD) = $60CP(e^{(D+b) \cdot e^{-1}})APID - 30QA(D+Tc)$				30,116
Intensity at Td (in/hr)				5.3
Required Storage (SR) = $SD(Precipitation \ 3 \ hr \ Storm / Precipitation \ 10 \ Storm)$				57,363
100-year event				
Assumed Td (min)	30.00	32.24	32.64	32.71
$[(D+b) \cdot e^{-1}] / [e^{(D+b) \cdot e^{-1}}]$	0.2835	0.3010	0.3041	0.3048
2CPAP/QA	0.3047	0.3047	0.3047	0.3047
Adjustment Factor	1.0747	1.0125	1.0020	1.0003
Adjusted Td (min)	32.24	32.64	32.71	32.72
Critical Storm Duration - Td (min)				32.72
Calculated Storage Volume (SD) = $60CP(e^{(D+b) \cdot e^{-1}})APID - 30QA(D+Tc)$				40,864
Intensity at Td (in/hr)				6.5
Required Storage (SR) = $SD(Precipitation \ 3 \ hr \ Storm / Precipitation \ 10 \ Storm)$				79,495

DIVERSION STRUCTURE
N.Y.S.

City of Cedar Park
Development Services
Department
APPROVED
08/21/2023

APPROVED

PLANNING DEPT.

AUG 27, 2023

CITY OF CEDAR PARK

As-Built Set

DATE: 7-28-06

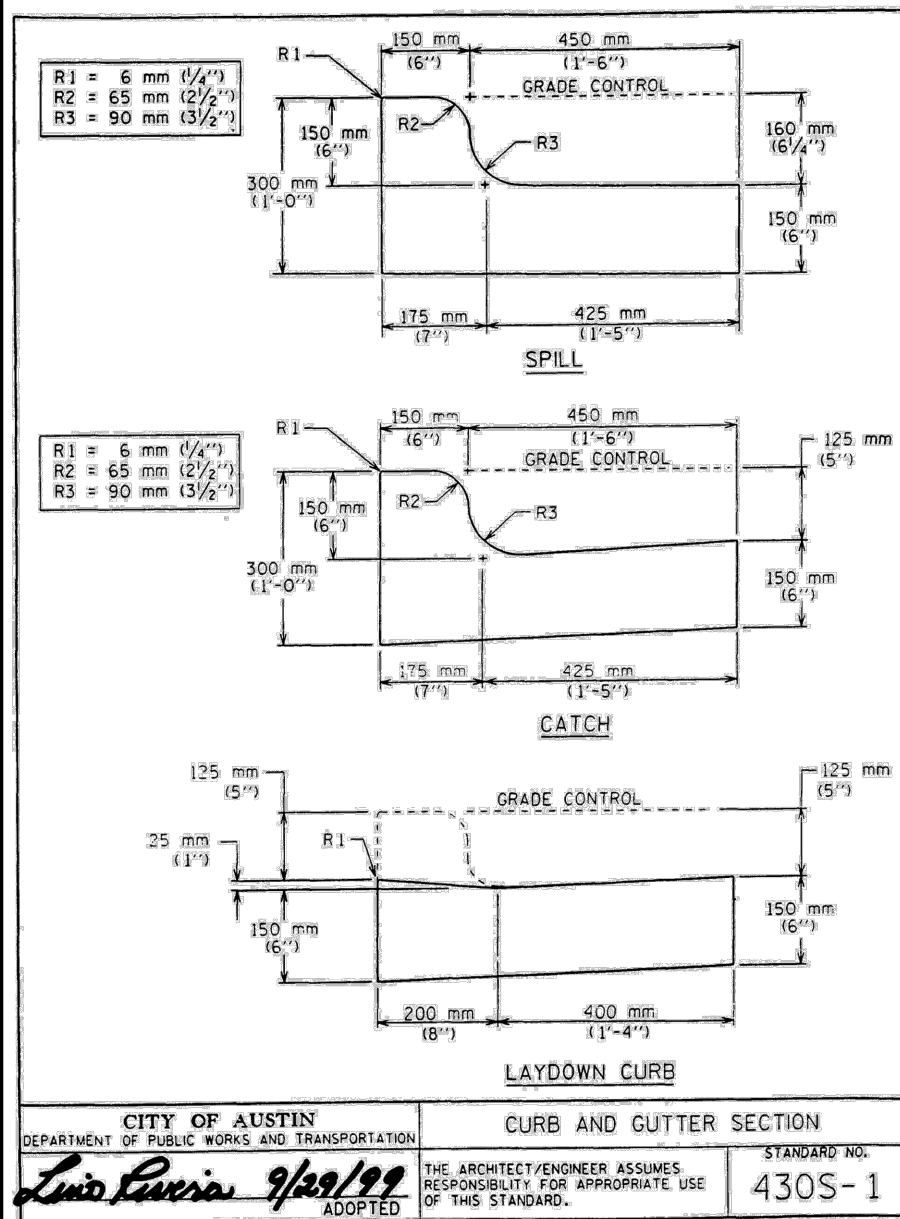
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13 OF 19

CITY OF CEDAR PARK 00030

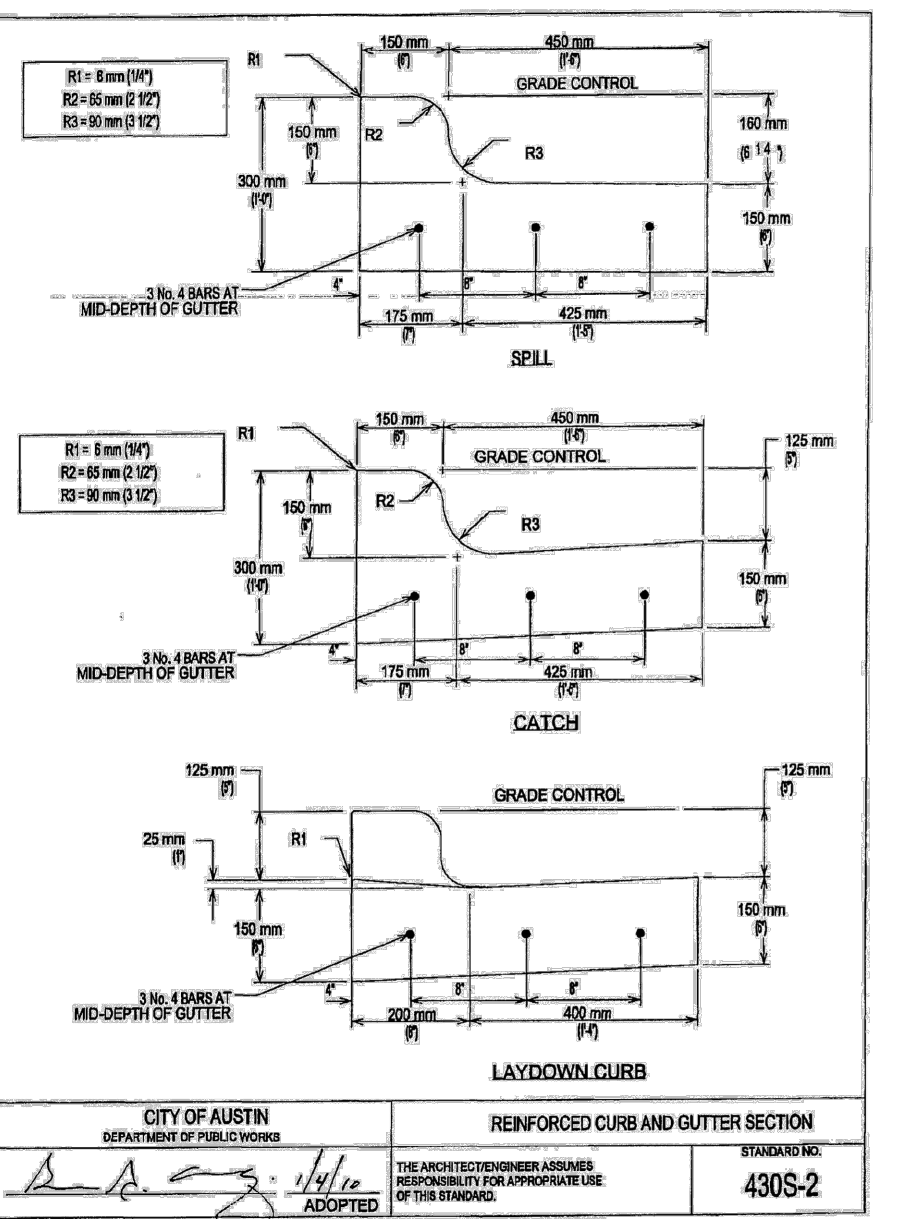
GOOD SHEPHERD LUTHERAN CHURCH
CEDAR PARK, TEXAS
WATER QUALITY POND DETAILS

R.L. KOSTER
2013 Licensed Professional Engineer, State of Texas, License No. 12677

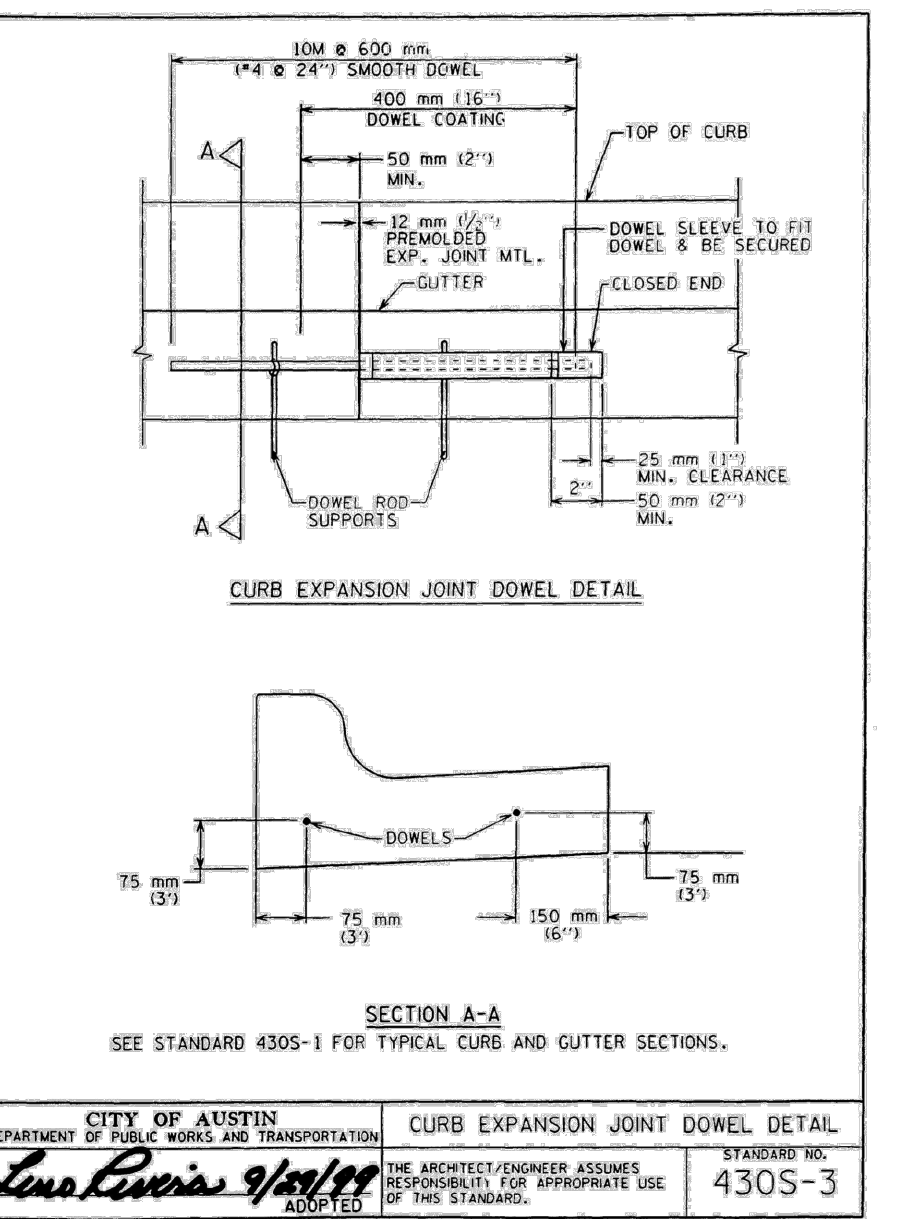
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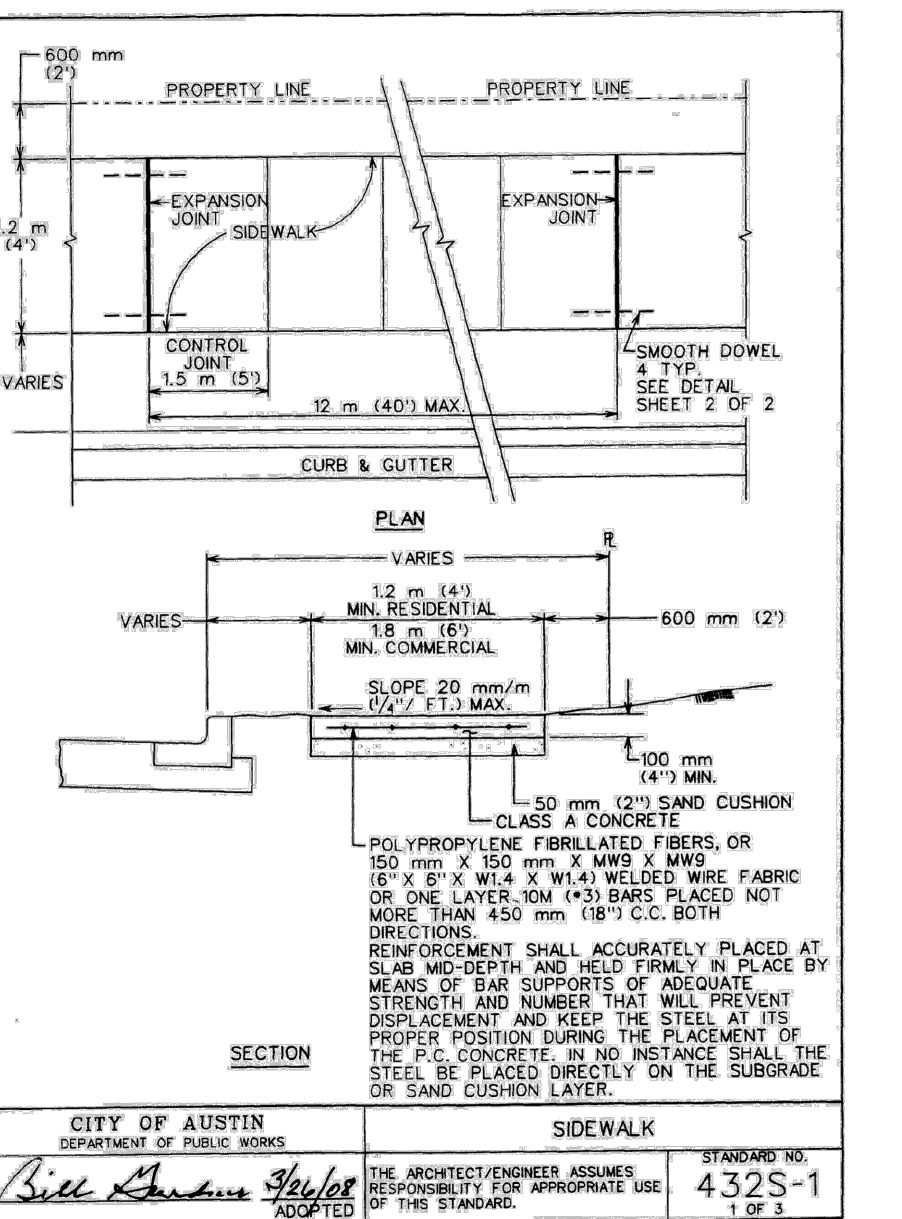
01 CURB AND GUTTER SECTION



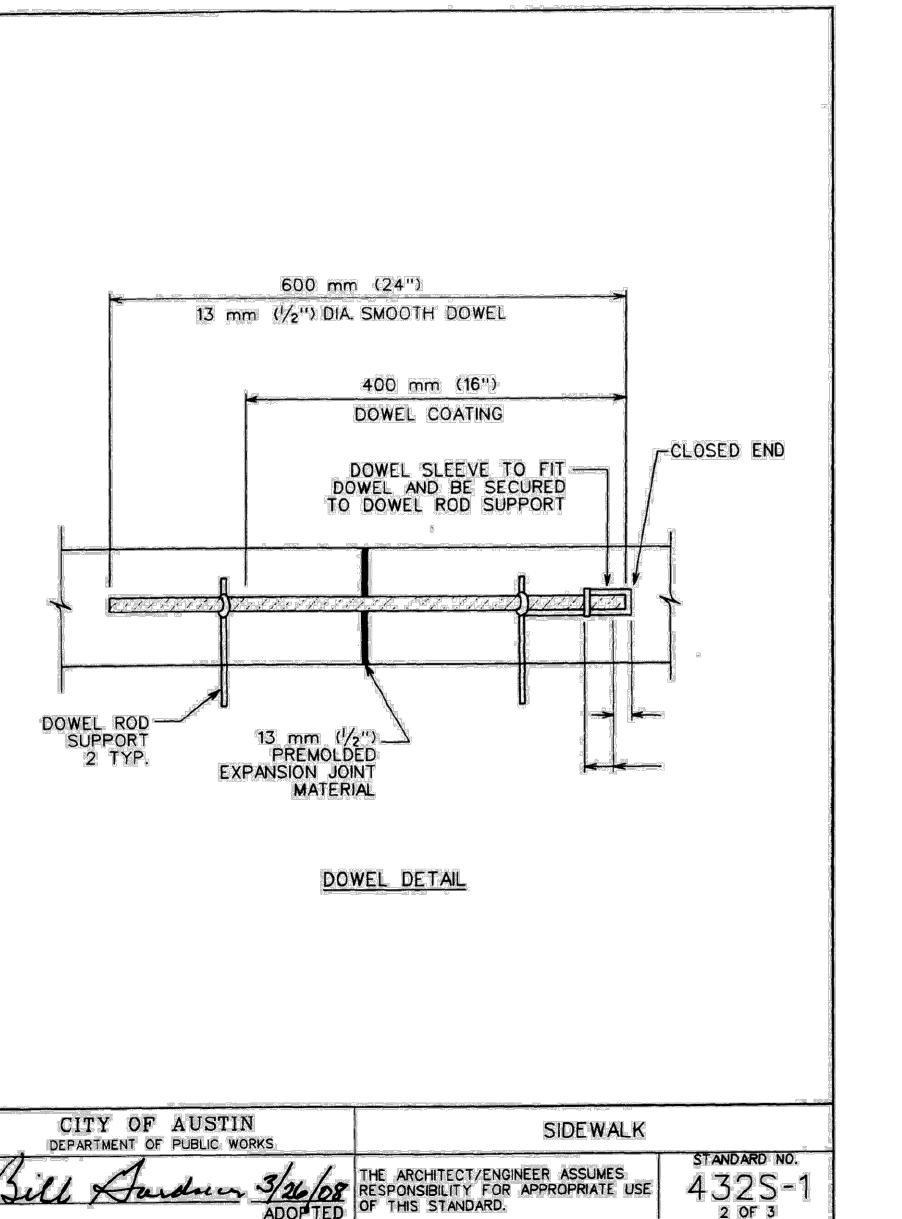
02 REINFORCED CURB AND GUTTER SECTION



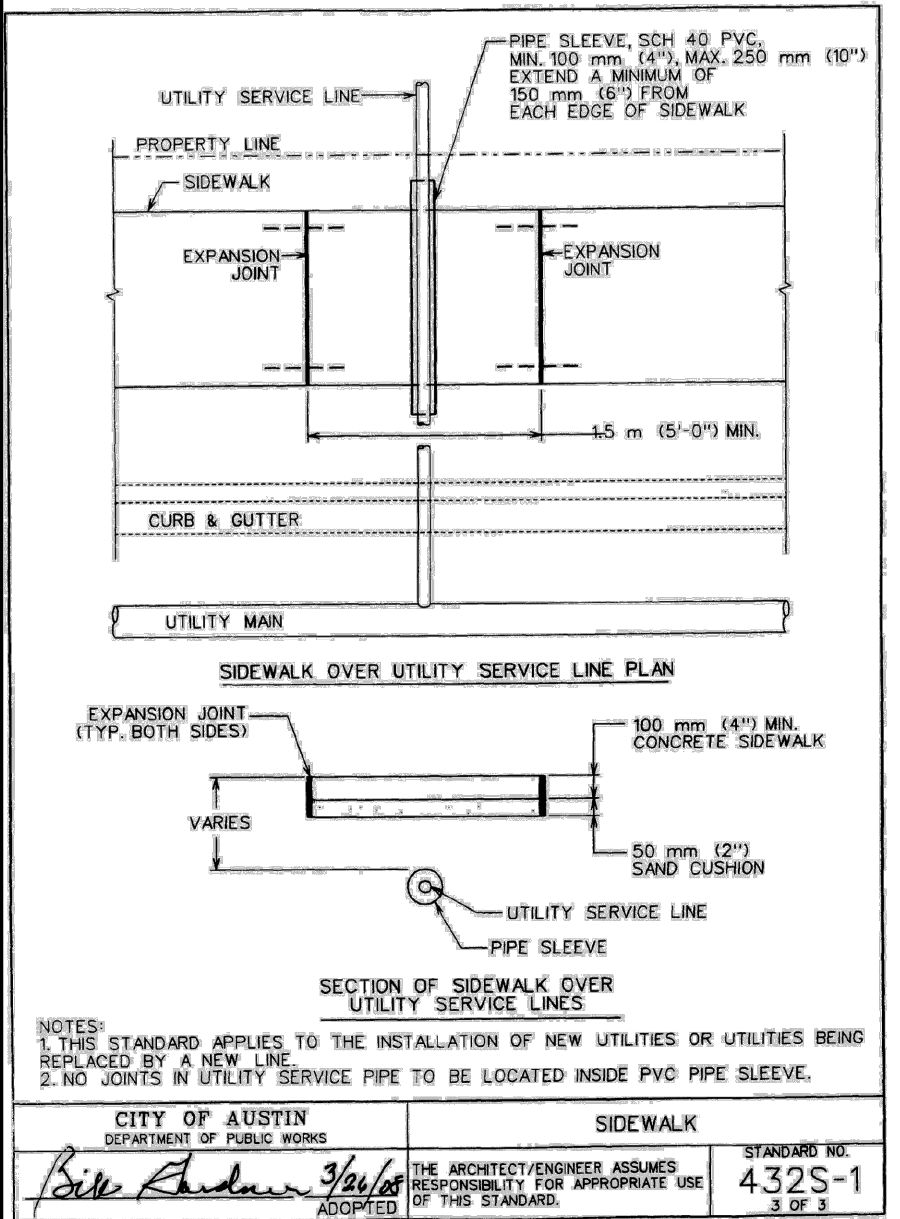
03 CURB EXPANSION JOINT DOWEL DETAIL



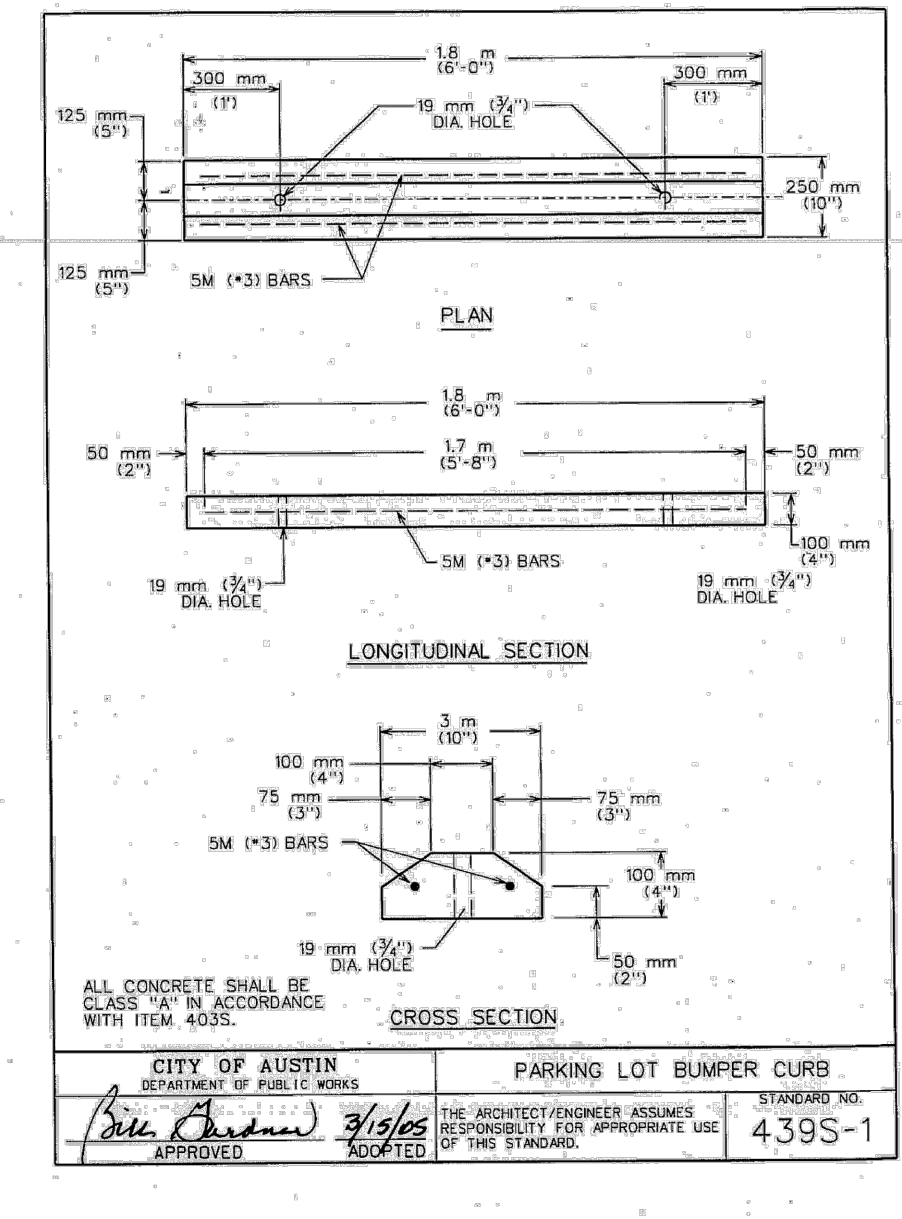
04 SIDEWALK (1 OF 3)



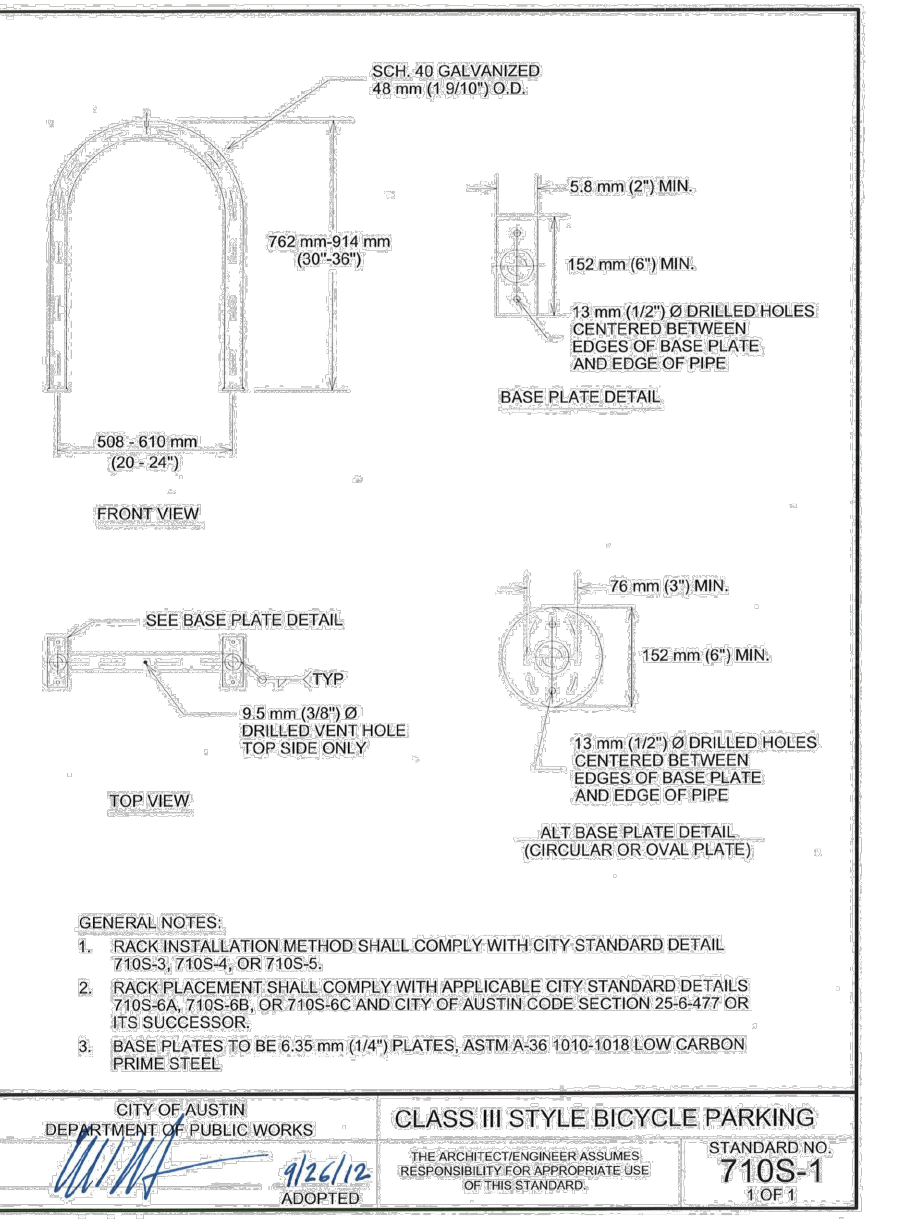
05 SIDEWALK (2 OF 3)



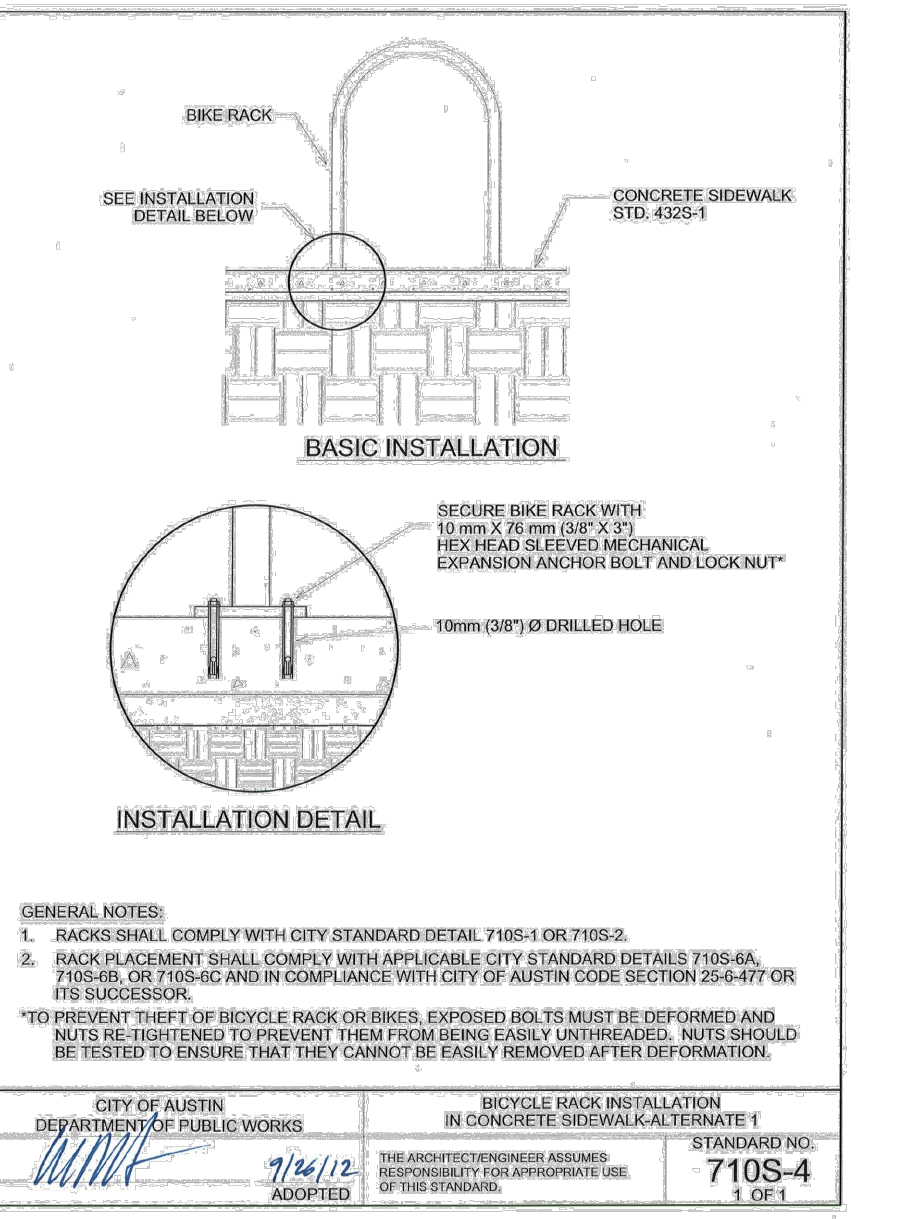
06 SIDEWALK (3 OF 3)



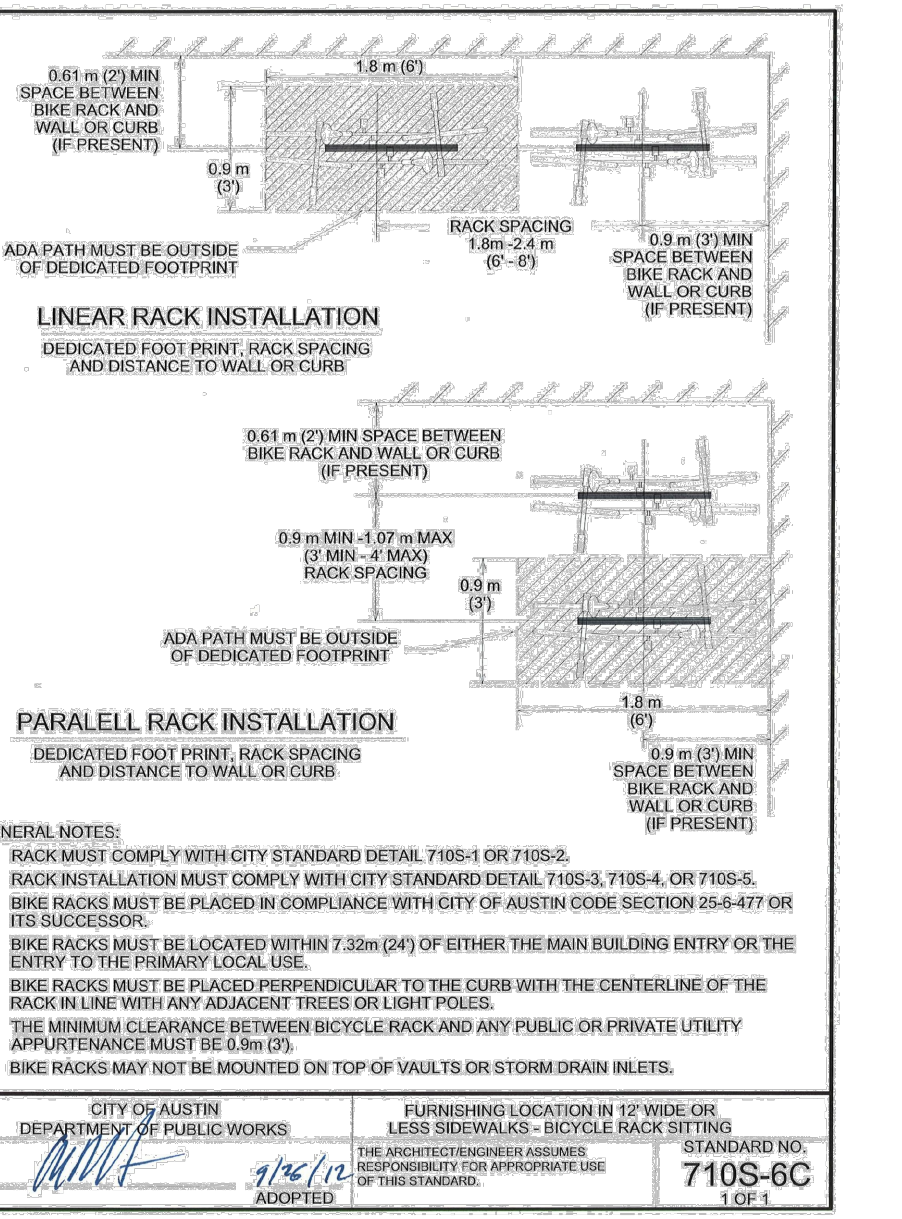
07 PARKING LOT BUMPER CURB



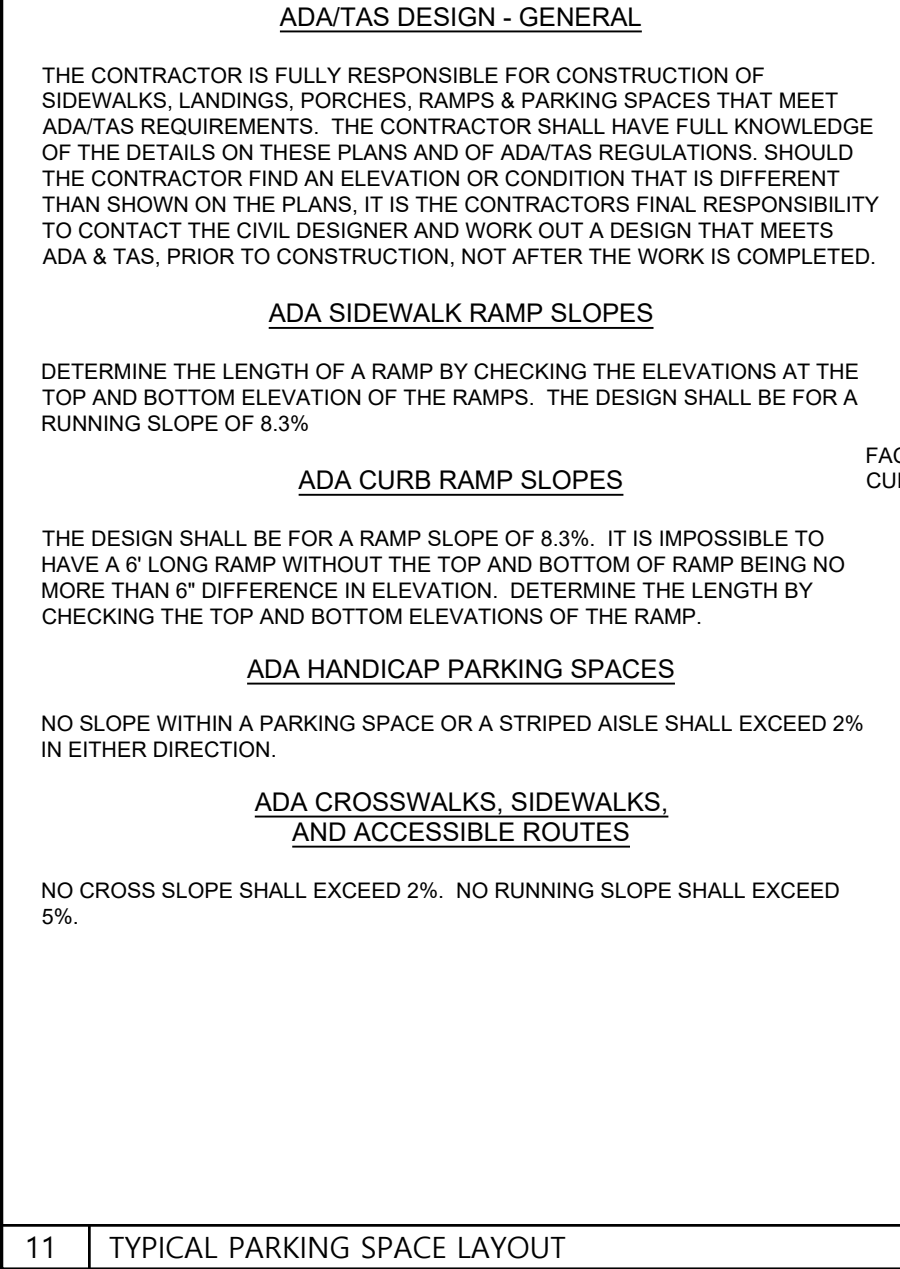
08 CLASS III STYLE BICYCLE PARKING



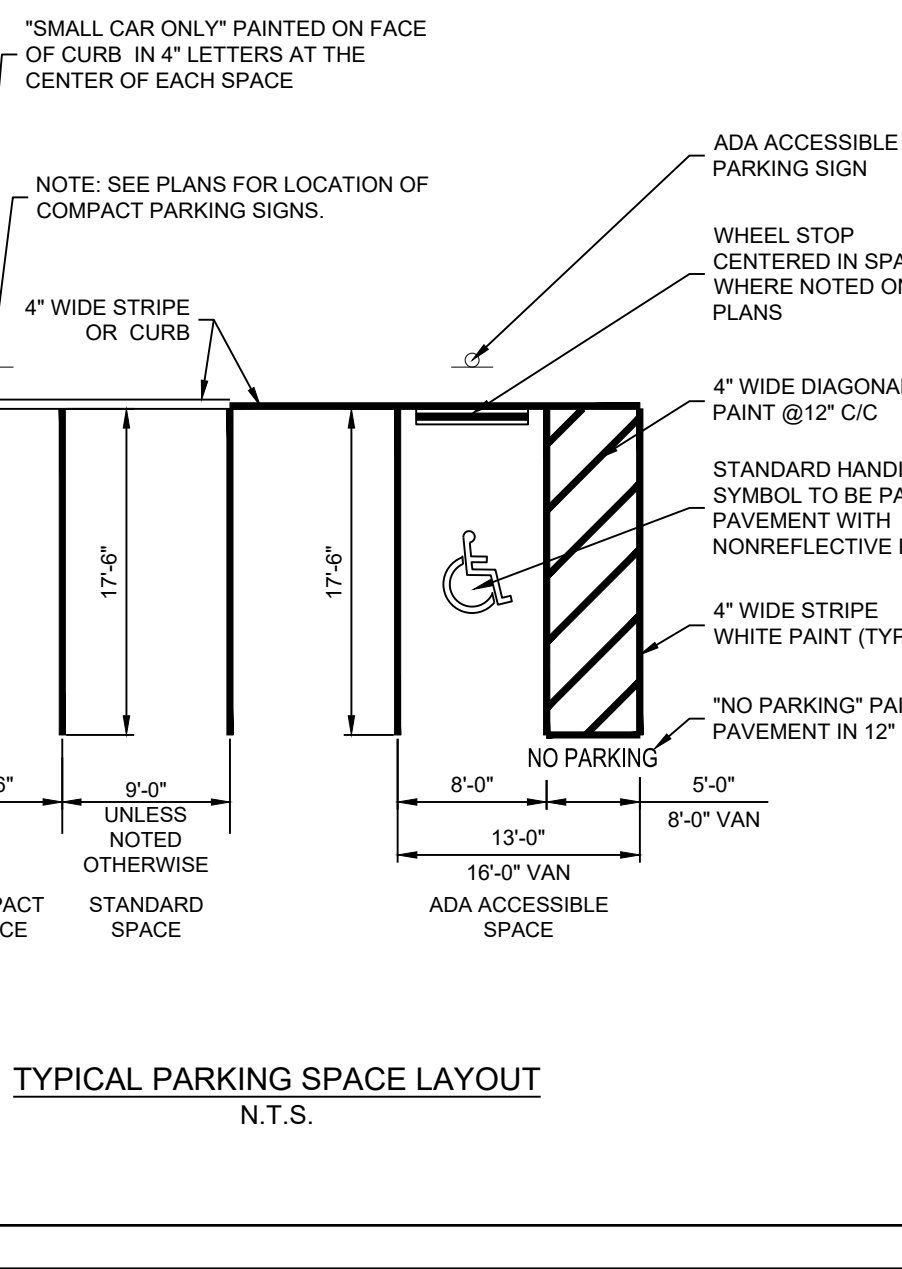
09 BICYCLE RACK INSTALLATION IN CONCRETE SIDEWALK-ALTERNATE 1



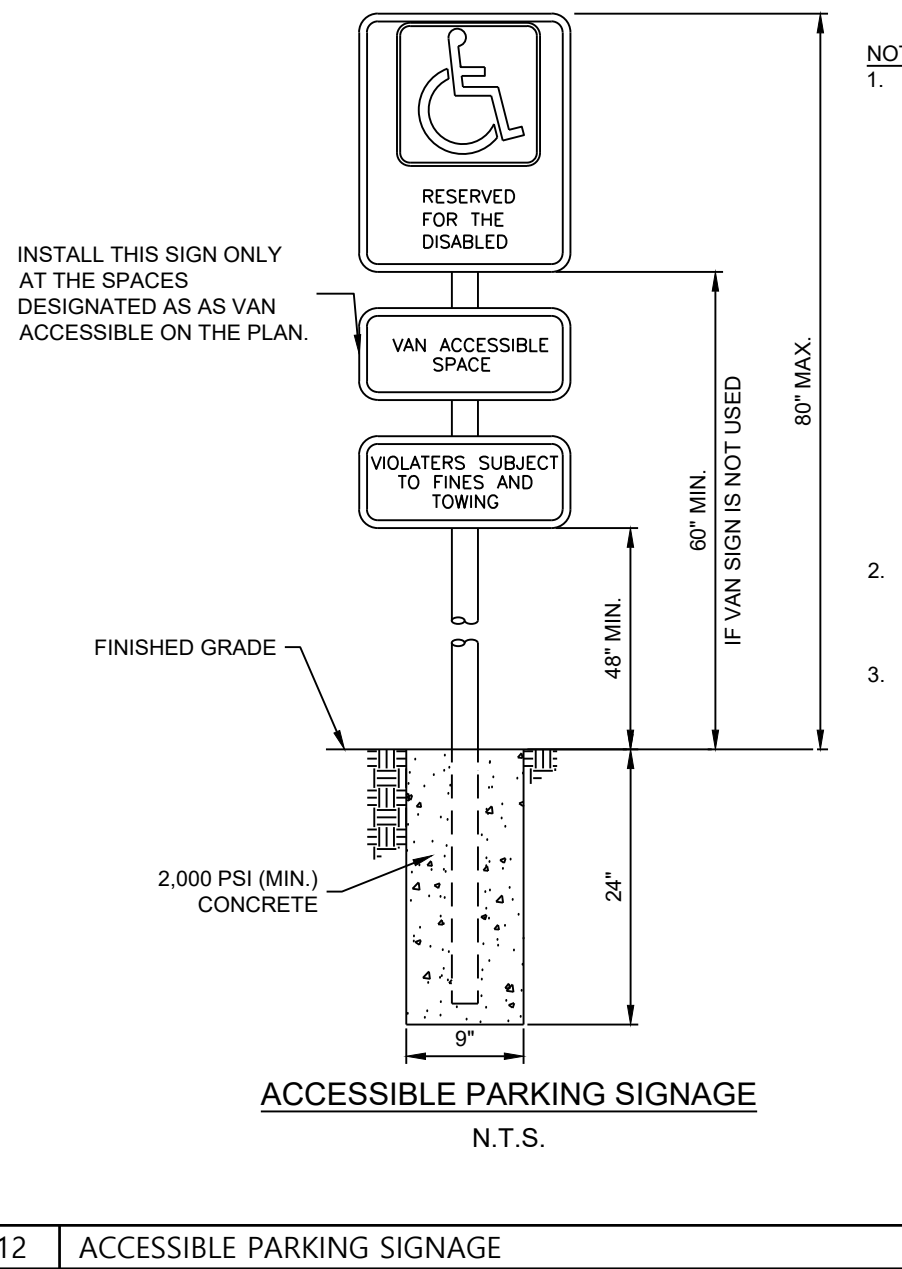
10 FURNISHING LOCATION IN 12' WIDE OR LESS SIDEWALKS - BICYCLE RACK SITTING



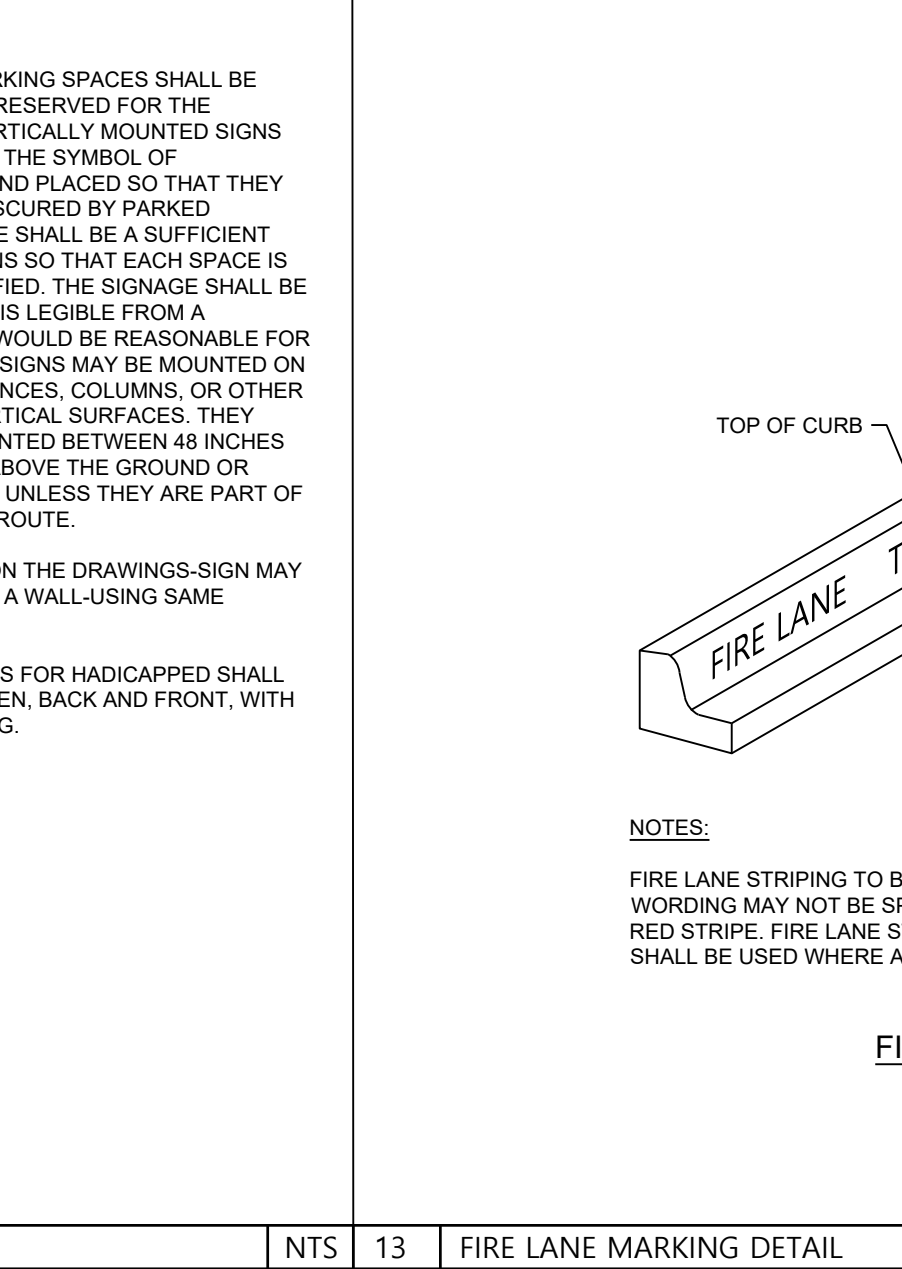
11 TYPICAL PARKING SPACE LAYOUT



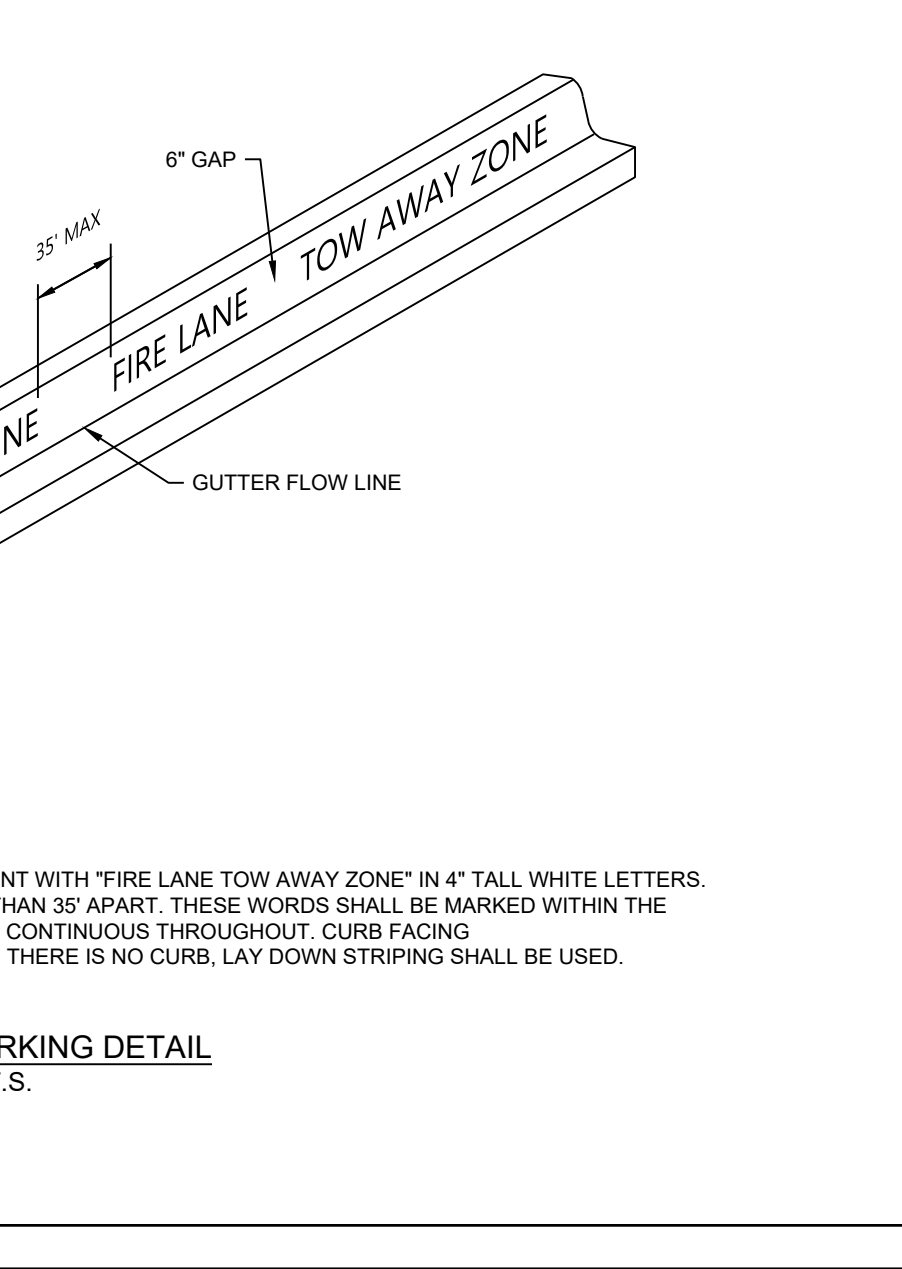
12 ACCESSIBLE PARKING SIGNAGE



13 FIRE LANE MARKING DETAIL



13 FIRE LANE MARKING DETAIL



13 FIRE LANE MARKING DETAIL

EXHIBIT D-2

CZP APPROVAL EAPP ID NO 09052802

CZP EXCEPTION APPROVAL EAPP ID NO 11003626



Buddy Garcia, *Chairman*
Larry R. Soward, *Commissioner*
Bryan W. Shaw, Ph.D., *Commissioner*
Mark R. Vickery, P.G., *Executive Director*



COPY

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 15, 2009

Mr. Kyle Montgomery, Executive Director
Good Shepherd Lutheran Church
700 W Whitestone Blvd.
Cedar Park, Texas 78613

Re: Edwards Aquifer, Williamson County
NAME OF PROJECT: Good Shepherd Lutheran Church; Located at 700 W. Whitestone Blvd.; Cedar Park, Texas
TYPE OF PLAN: Request for approval of a Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer
Edwards Aquifer Protection Program ID No. 09052802; Investigation No. 759638; Regulated Entity No. RN105743777

Dear Mr. Montgomery:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP application for the above-referenced project submitted to the Austin Regional Office by Robert L. Koster, P.E., Consulting Engineer, on behalf of Good Shepherd Lutheran Church on May 28, 2009. Final review of the CZP was completed after additional material was received on June 22, 26, and July 9, 2009. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

REPLY TO: REGION 11 • 2800 S. INTERSTATE HWY. 35, STE. 100 • AUSTIN, TEXAS 78704-5700 • 512-339-2929 • FAX 512-339-3795

P.O. Box 13087 • Austin, Texas 78711-3087 • 512-239-1000 • Internet address: www.tceq.state.tx.us

printed on recycled paper using soy-based ink.

PROJECT DESCRIPTION

The proposed project will have an area of approximately 9.81 acres. Phase 1 includes the construction of a one-story church and activity center building totaling 41,402 square feet, parking and the associated driveways, parking, utility services and a water quality and detention facility. Impervious cover in Phase 1 will be increased by 3.21 acres. There are existing buildings and parking built prior to 1999, containing 2.23 acres of existing impervious cover. The existing impervious cover was constructed prior to the TCEQ Contributing Zone rules, and therefore not required to be treated. The future phase includes a 13,700 square foot classroom building and north parking lot containing 0.96 acres of impervious cover. The total impervious cover for the site will be 6.40 acres and consists of: 2.23 acres of existing impervious cover; Phase 1 construction of 3.21 acres of impervious cover; and future development consisting of 0.96 acres of impervious cover. Project wastewater will be disposed of by conveyance to the existing City of Cedar Park Wastewater Reclamation Facility.

PERMANENT POLLUTION ABATEMENT MEASURES

A partial sedimentation filtration system will be constructed to treat stormwater runoff. The pond provides 10,660 cubic feet of water quality volume (10,660 cubic feet is required) with a capture depth of 0.52 inches. The pond provides treatment for 4.17 acres of new impervious cover. The approved measures meet the required 80 percent removal of the increased load in total suspended solids caused by the project.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.
3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.

5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.
7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

8. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
9. If sediment escapes the construction site, the 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). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been significantly reduced. 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).
10. Intentional discharges of sediment laden storm water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.

11. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
12. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.
13. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 5, above.

After Completion of Construction:

14. Owners of permanent BMPs and measures must insure that the 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 Austin Regional Office within 30 days of site completion.
15. The applicant shall be 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. A copy of the transfer of responsibility must be filed with the executive director through the Austin Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Contributing Zone Plan. If the new owner intends to commence any new regulated activity on the site, a new Contributing Zone Plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
17. A Contributing Zone Plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be

Mr. Kyle Montgomery

Page 5

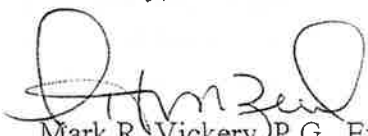
July 15, 2009

submitted to the Austin Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.

18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

If you have any questions or require additional information, please contact Mr. Ben E. Milford, P.G. of the Edwards Aquifer Protection Program of the Austin Regional Office at (512) 339-2929.

Sincerely,



for Mark R. Vickery, P.G., Executive Director
Texas Commission on Environmental Quality

MRV/bem

Enclosure: Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Robert L. Koster, P.E., Cedar Park
Mr. Paulo C. Pinto, B.S., R.S., Director of Environmental Services, Williamson County
and Cities Health District
Mr. Sam Roberts, P.E., Director of Public Works, City of Cedar Park
TCEQ Central Records

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Interim Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 4, 2023

Mr. Matthew Headley
Good Shephard Evangelical Lutheran Church
700 W. Whitestone Boulevard
Cedar Park, Texas 78613

Re: Approval of an Exception to the requirements of a Contributing Zone Plan (CZP)
Good Shephard Lutheran Church; Located at 700 W. Whitestone Blvd.; Cedar Park,
Williamson County, Texas
Edwards Aquifer Protection Program ID: 11003626, Regulated Entity No. RN105743777

Dear Mr. Headley:

The Texas Commission on Environmental Quality (TCEQ) has completed its review on the application for the above-referenced project submitted to the Edwards Aquifer Protection Program (EAPP) by Migl Engineering and Consulting, PLLC on behalf of the applicant, Good Shephard Evangelical Lutheran Church on June 13, 2023. Final review of the application was completed after additional material was received on July 26, 2023, and July 27, 2023.

As presented to the TCEQ, the application was prepared in general compliance with the requirements of 30 Texas Administrative Codes (TAC) Chapter §213 the measures represented in the application demonstrate equivalent water quality protection for the Edwards Aquifer. Therefore, the application for the construction of the proposed project and methods to protect the Edwards Aquifer are **approved**, subject to applicable state rules and the conditions in this letter.

This approval expires two years from the date of this letter, unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been officially requested. This approval or extension will expire, and no extension will be granted if more than 50 percent of the project has not been completed within ten years from the date of this letter.

The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this contributing zone plan or modification to a plan. A motion for reconsideration must be filed in accordance with 30 TAC §50.139.

BACKGROUND

The Good Shephard Lutheran Church CZP was approved by letter dated July 15, 2009, for the construction of a church with associated parking on a 9.81-acre site. The proposed permanent BMP was a partial sedimentation filtration basin.

PROJECT DESCRIPTION

The proposed church project will have an area of approximately 9.81 acres. The project will include the addition of parking lots and sidewalks. The new impervious cover will be 0.285 acres (2.90 percent). Project wastewater will be disposed of by conveyance to the existing Brushy Creek Regional Wastewater Treatment Plant.

EQUIVALENT WATER QUALITY PROTECTION

The applicant requests an exception to submitting a contributing zone plan or modification required by 30 TAC §213.21. However, the applicant proposes an exception under 30 TAC §213.26. The proposed development demonstrates equivalent water quality protection for surface streams which enter the recharge zone of the Edwards Aquifer.

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, a previously approved partial sedimentation filtration basin (11-09052802) designed using the TCEQ technical guidance, *RG-348, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices*, will be implemented to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 248 pounds of TSS generated from the 0.285 acres of impervious cover. The approved permanent BMPs and measures meet the required 80 percent removal of the increased load in TSS caused by the project.

The permanent BMPs shall be operational prior to occupancy or use of the proposed project. Inspection, maintenance, repair, and retrofit of the permanent BMPs shall be in accordance with the approved application.

SPECIAL CONDITION

This application is subject to all the special and standard conditions listed in the approval letter(s) dated July 15, 2009.

STANDARD CONDITIONS

1. The plan holder (applicant) must comply with all provisions of 30 TAC Chapter §213 and all technical specifications in the approved plan. The plan holder should also acquire and comply with additional and separate approvals, permits, registrations or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, Dam Safety, Underground Injection Control) as required based on the specifics of the plan.
2. In addition to the rules of the Commission, the plan holder must also comply with state and local ordinances and regulations providing for the protection of water quality as applicable.

Prior to Commencement of Construction:

3. The plan holder of any approved contributing zone plan or exception must notify the EAPP and obtain approval from the executive director prior to initiating any modification to the activities described in the referenced application following the date of the approval.
4. The plan holder must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the EAPP no later than 48 hours prior to commencement of the regulated activity.

Notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person.

5. Temporary erosion and sedimentation (E&S) controls as described in the referenced application, must be installed prior to construction, and maintained during construction. Temporary E&S controls may be removed when vegetation is established, and the construction area is stabilized. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

6. This approval does not authorize the installation of temporary or permanent aboveground storage tanks on this project that will have a total storage capacity of 500 gallons or more of static hydrocarbons or hazardous substances without a modification or plan to be submitted and approved prior to installation.
7. If sediment escapes the construction site, the 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). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
8. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge must be filtered through appropriately selected BMPs.
9. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
10. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

11. Owners of permanent BMPs and temporary measures must ensure that the BMPs and measures are constructed and function as designed. A Texas licensed PE **must certify** in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the EAPP within 30 days of site completion.
12. The applicant shall be 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 or the ownership of the property is transferred to the entity. A copy of the transfer of responsibility must be filed with the executive director through the EAPP within 30 days of the transfer. TCEQ form, Change in Responsibility for Maintenance on Permanent BMPs and Measures (TCEQ-10263), may be used.

Mr. Matthew Headley

Page 4

August 4, 2023

The holder of the approved contributing zone plan or exception is responsible for compliance with Chapter §213 subchapter B and any condition of the approved plan through all phases of plan implementation. Failure to comply with any condition within this approval letter is a violation of Chapter §213 and is subject to administrative rule or orders and penalties as provided under §213.25 of this title (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. Upon legal transfer of this property, the new owner is required to comply with all terms of the approved contributing zone plan or exception.

This action is taken as delegated by the executive director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Dianne Pavlicek-Mesa, P.G. of the Edwards Aquifer Protection Program at 210-403-4073 or the regional office at 512-339-2929.

Sincerely,



Lillian Butler, Section Manager
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality

LIB/dpm

cc: Mr. Kyle Quick, P.E., Migl Engineering and Consulting, PLLC

EXHIBIT E-1
REQUIRED TSS REMOVAL



Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.

Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.

Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where:

$L_{M \text{ TOTAL PROJECT}}$ = 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 * = 9.811 acres

Predevelopment impervious area within the limits of the plan * = 2.230 acres

Total post-development impervious area within the limits of the plan * = 4.280 acres

Total post-development impervious cover fraction * = 0.44

P = 32 inches

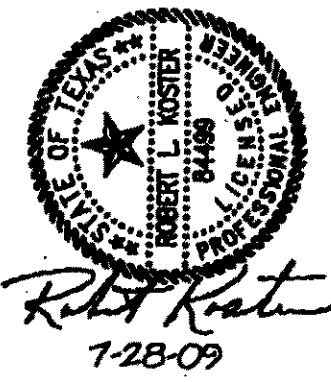
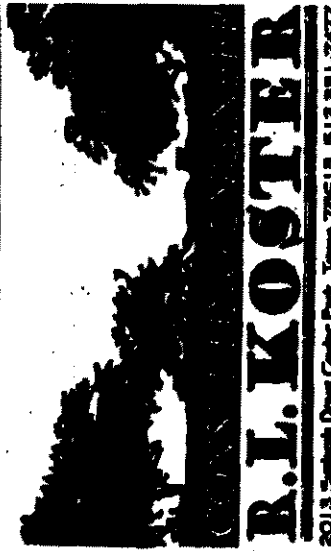
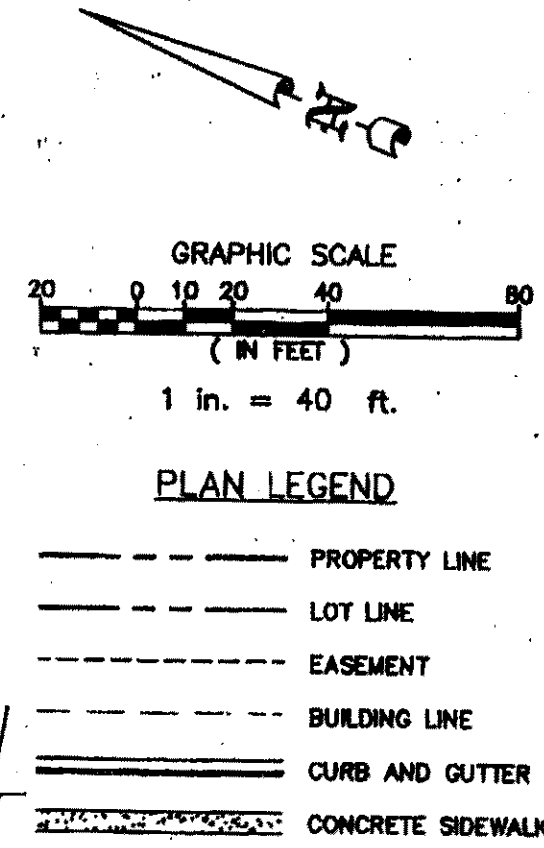
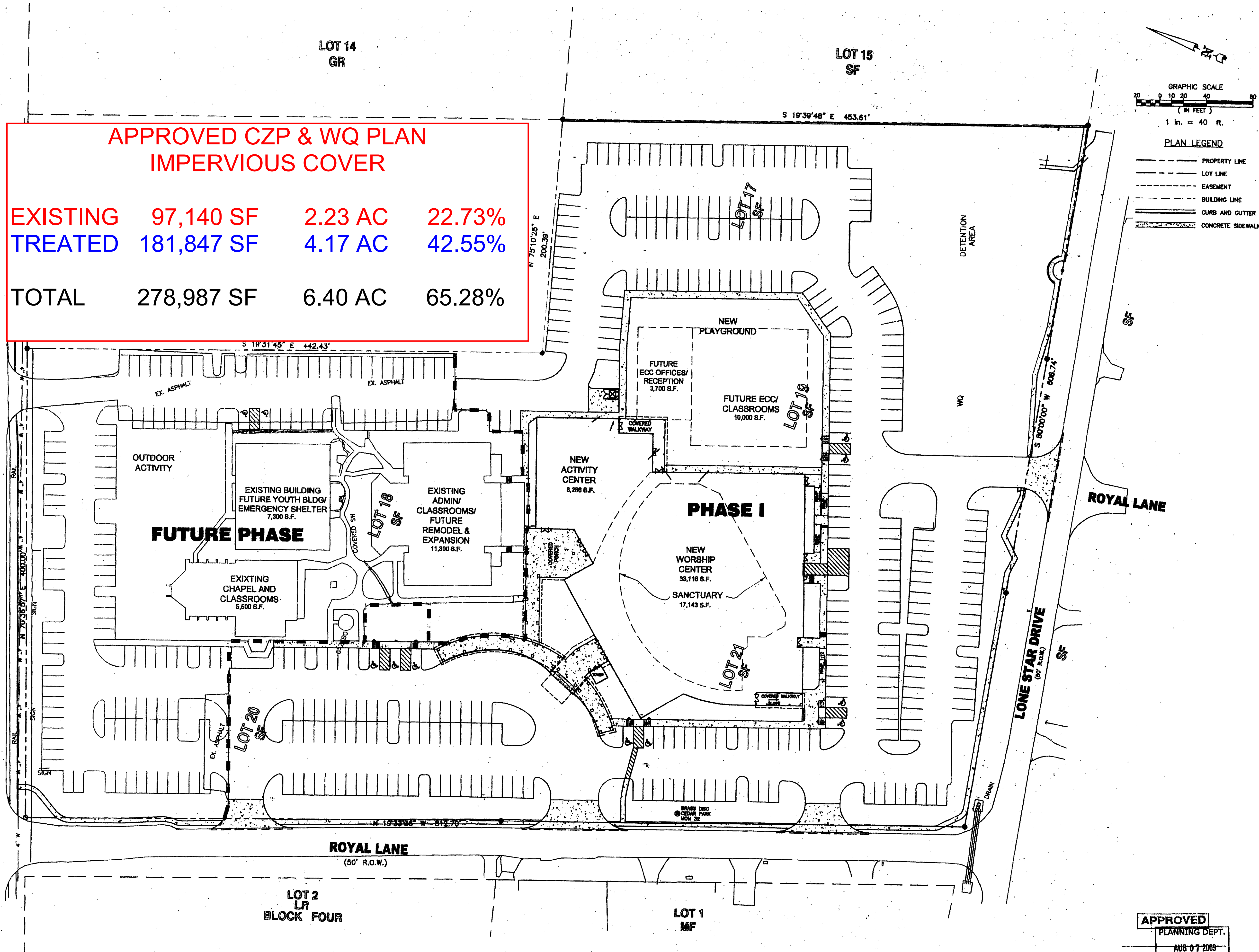
$L_{M \text{ TOTAL PROJECT}}$ = 1784 lbs.

EXHIBIT E-2
APPROVED CZP, WQ PLAN UNDER PERMIT SD-08-00030
& PROPOSED IMPROVEMENTS



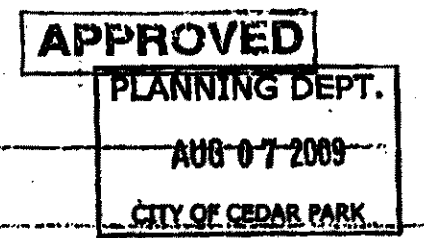
WEST WHITESTONE BLVD. (RM 1431)

APPROVED CZP & WQ PLAN			
IMPERVIOUS COVER			
EXISTING	97,140 SF	2.23 AC	22.73%
TREATED	181,847 SF	4.17 AC	42.55%
TOTAL	278,987 SF	6.40 AC	65.28%

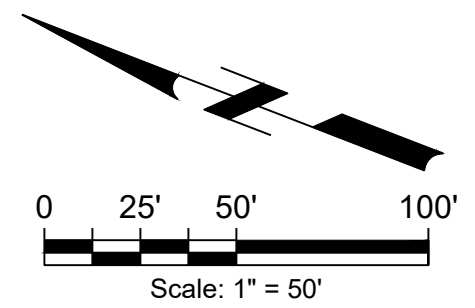
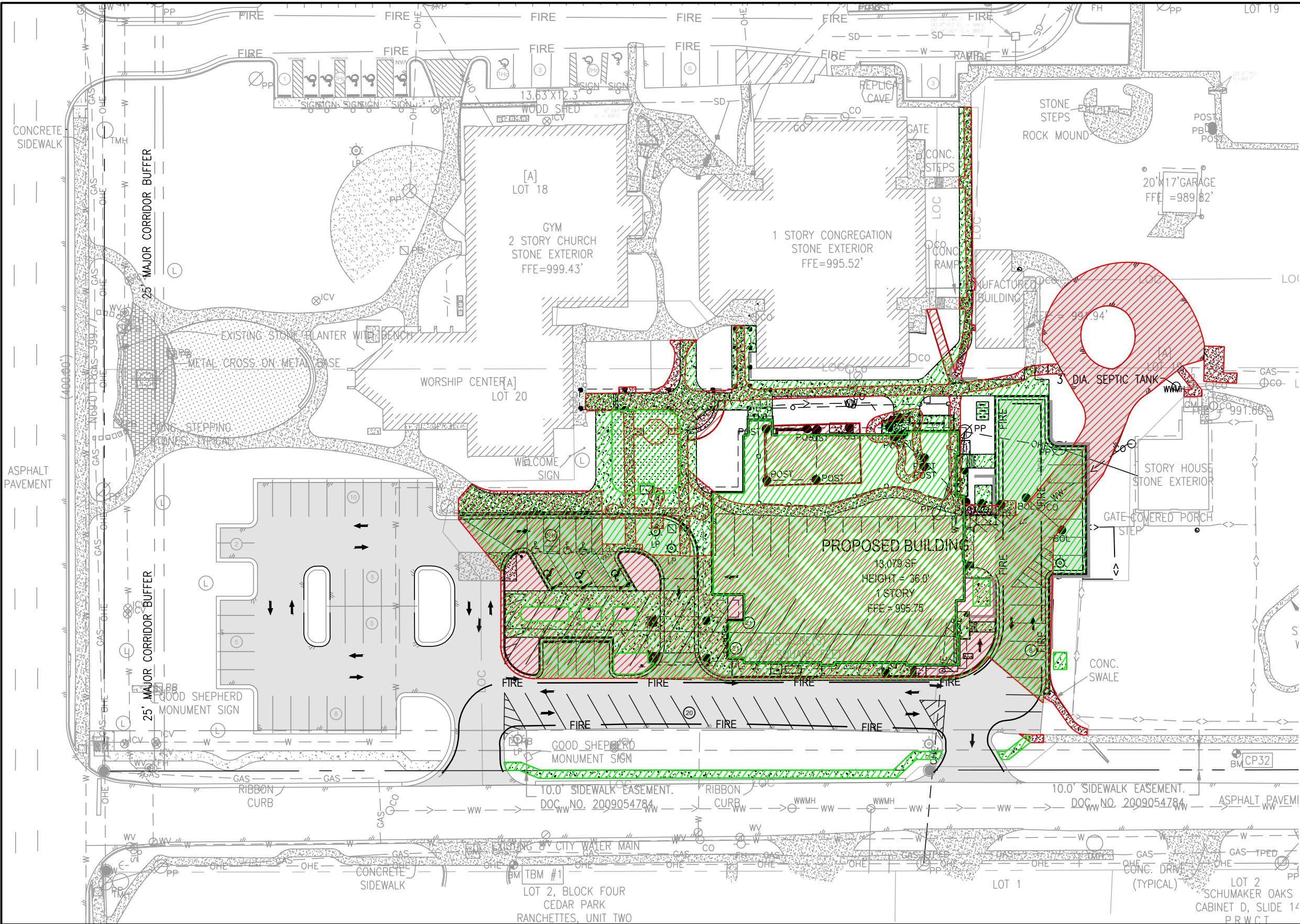


GOOD SHEPHERD LUTHERAN CHURCH
CEDAR PARK, TEXAS

PHASING PLAN



As-Built Set
DATE: 7-28-09
Sheet Number
8
SHT 8 OF 21



LEGEND

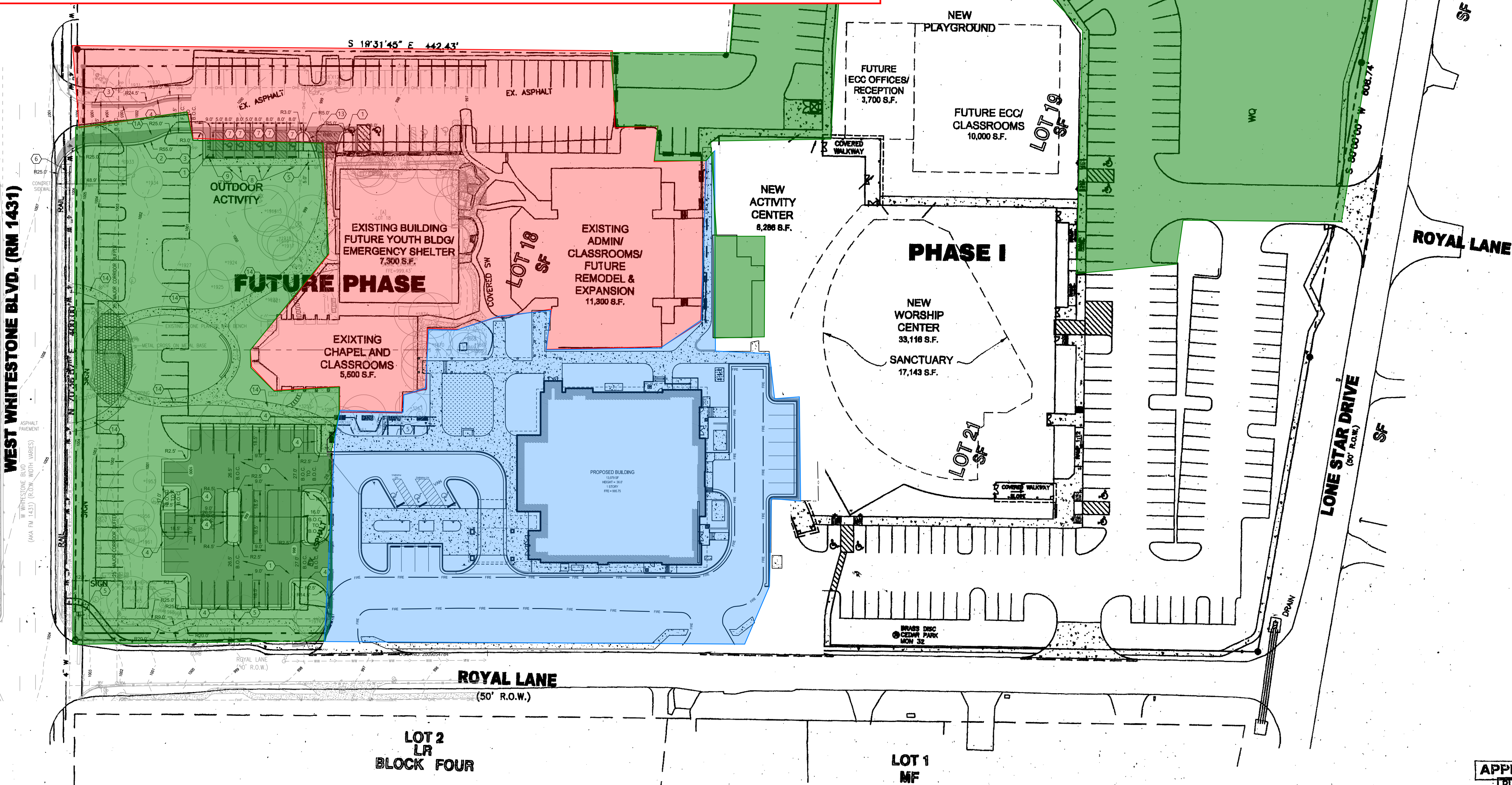
-  DEMO IMPERVIOUS COVER
-  PROPOSED IMPERVIOUS COVER

DEMO IMPERVIOUS COVER = 34,755.6 SQFT
PROP. IMPERVIOUS COVER = 36,414 SQFT



EXISTING, CONSTRUCTED IN 2009 & 2023,
& PROPOSED IN 2025
IMPERVIOUS COVER

EXISTING	97,140 SF	2.23 AC	22.73%
CONSTRUCTED	87,559 SF	2.01 AC	20.48%
PROPOSED TO BE DEMOLISED	34,755 SF	0.79 AC	8.13%
PROPOSED	36,414 SF	0.81 AC	8.52%
TOTAL	186,358 SF	4.28 AC	43.60%



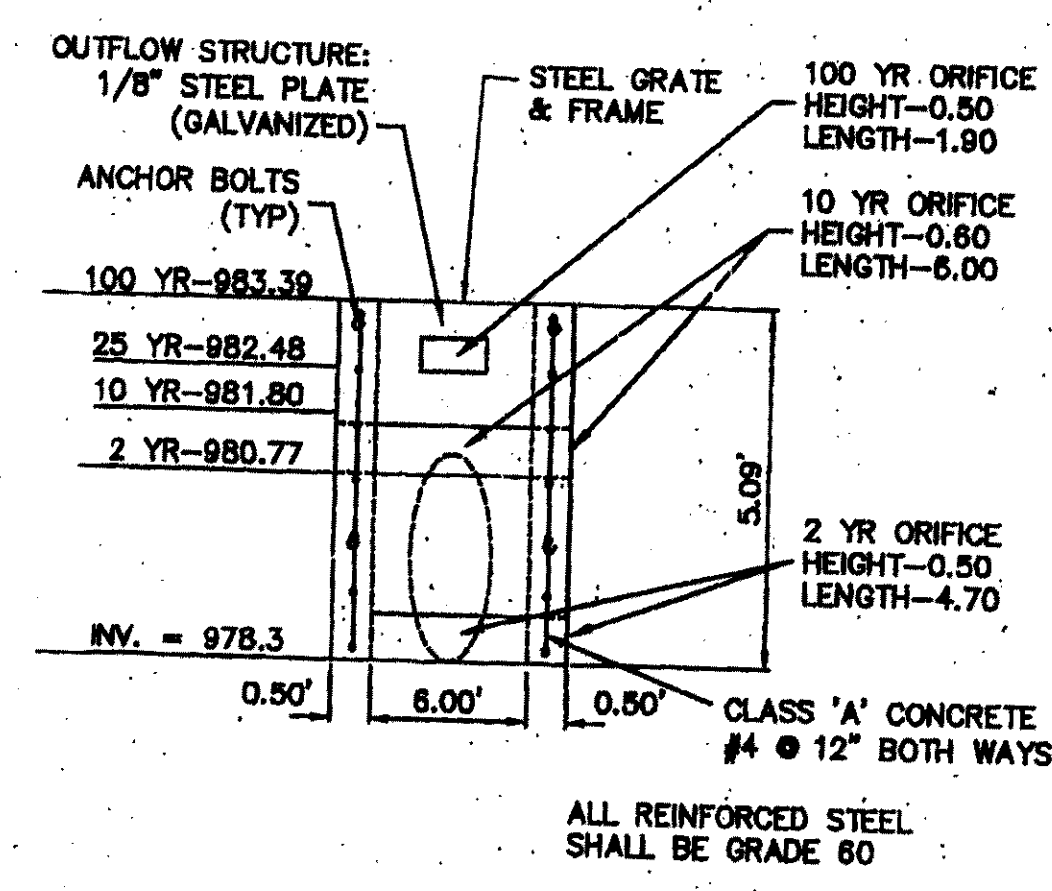
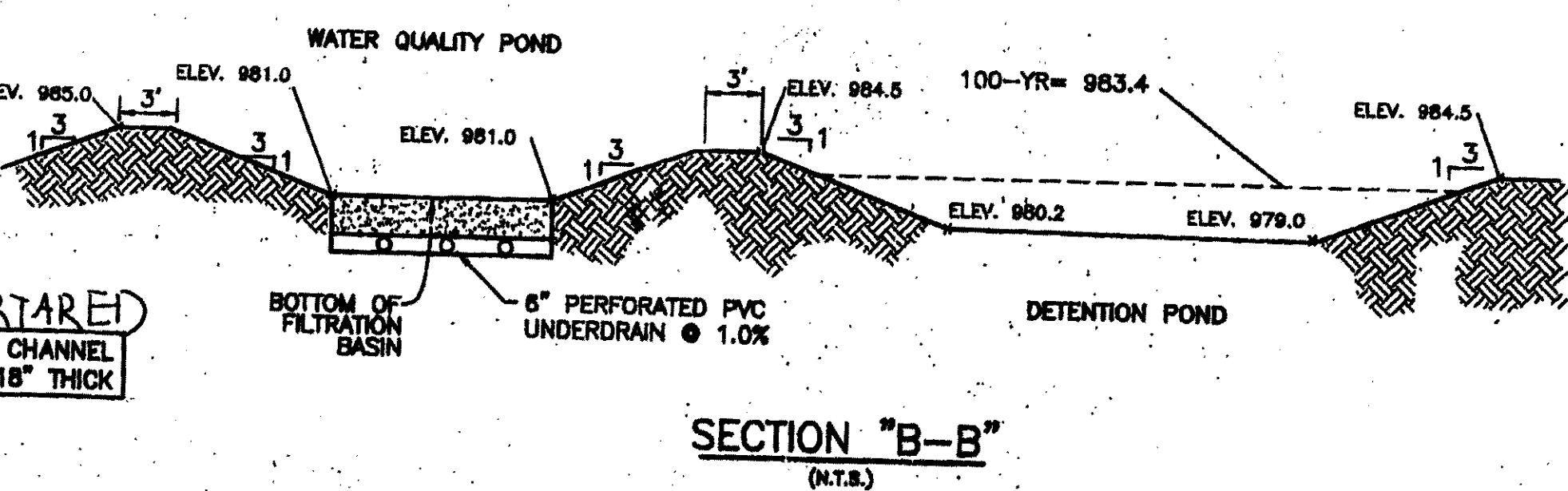
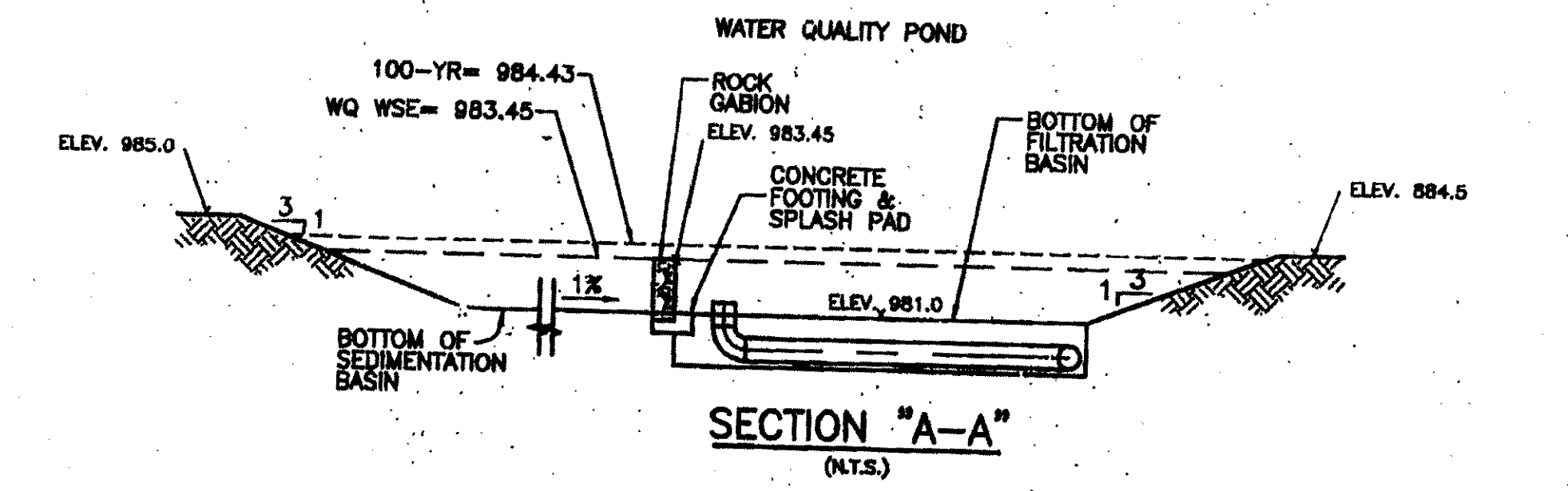
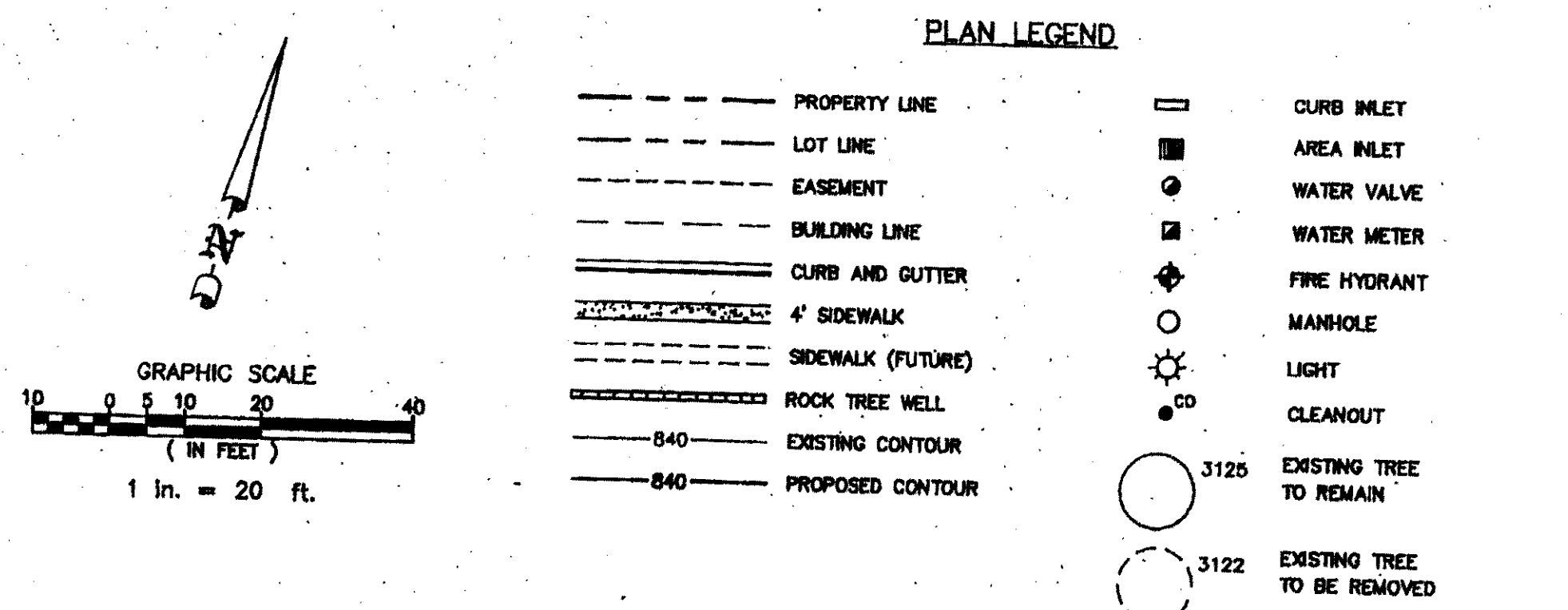
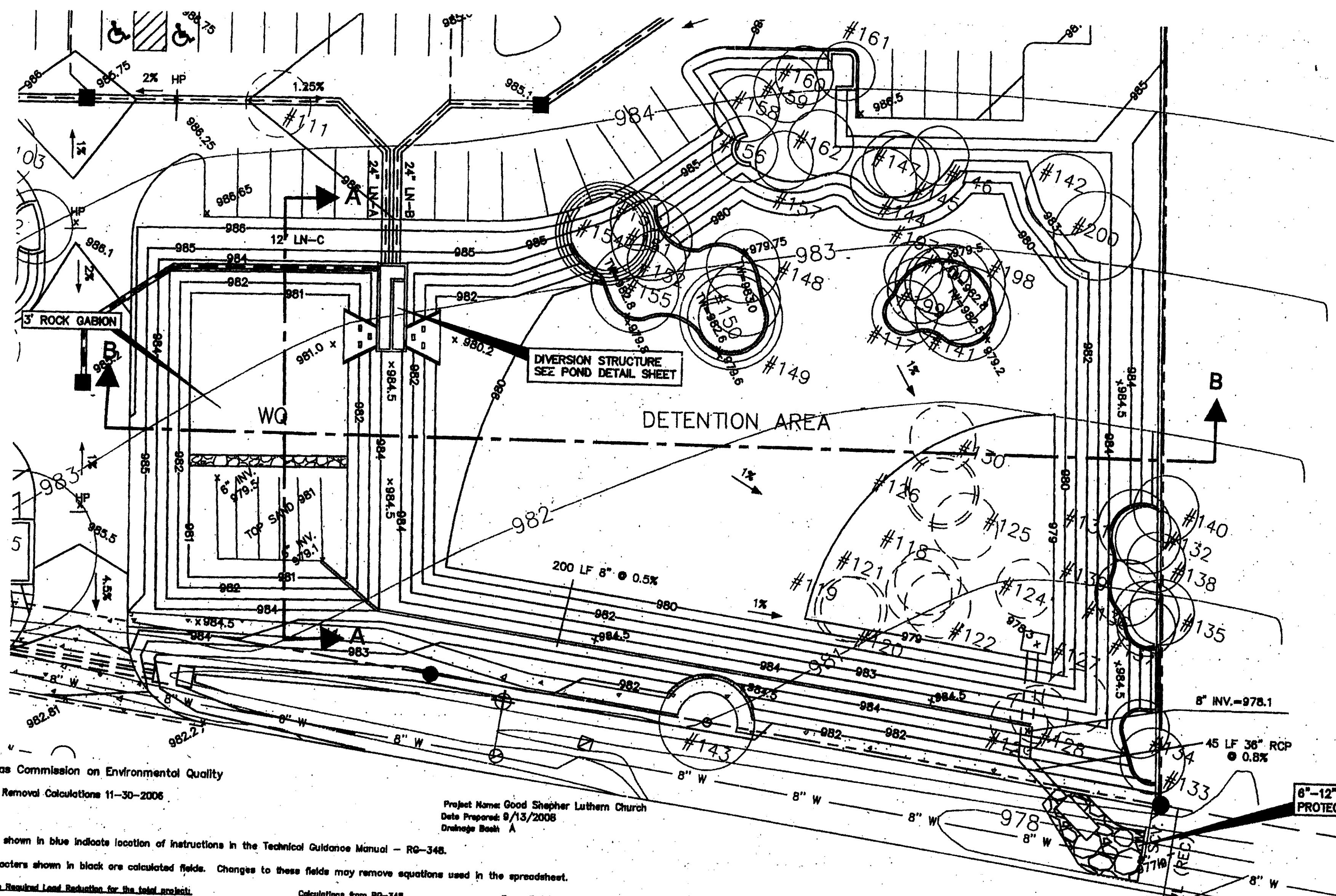
Robert R. Koster
7-28-09

GOOD SHEPHERD LUTHERAN CHURCH
CEDAR PARK, TEXAS

PHASING PLAN

APPROVED
PLANNING DEPT.
AUG 07 2009
CITY OF CEDAR PARK

As-Built Set
DATE: 7-28-09
Sheet Number
8
SHT 8 OF 21



Texas Commission on Environmental Quality
TSS Removal Calculations 11-30-2006

Text shown in blue indicates location of instructions in the Technical Guidance Manual - RQ-348.

Characters shown in black are calculated fields. Changes to these fields may remove equations used in the spreadsheet.

1. The Required Load Reduction for the total catchment.

Calculations from RQ-348

Page 3-29 Equation 3.3: $LM = 27.2(AN \times P)$

where:

LM TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load

AN = Net increase in impervious area for the project

P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

Category	Value	Unit
Total project area included in plan	8.85	acres
Predevelopment impervious area within the limits of the plan	2.25	acres
Total post-development impervious area within the limits of the plan	6.60	acres
Total post-development impervious cover fraction	0.72	inches
P	32	inches

LM TOTAL PROJECT = 3830 lbs.

Number of drainage basins / outfalls areas leaving the plan area = 1

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

Drainage Basin/Outfall Area No. = A

Category	Value	Unit
Total drainage basin/outfall area	8.85	acres
Predevelopment impervious area within drainage basin/outfall area	2.25	acres
Post-development impervious area within drainage basin/outfall area	6.60	acres
Post-development impervious fraction within drainage basin/outfall area	0.72	inches
LM THIS BASIN	3830	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = 11 abbreviation

Removal efficiency = 89 percent

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

RQ-348 Page 3-33 Equation 3.7: $LR = (BMP\ efficiency) \times P \times (AN \times 2.48 + AP \times 0.24)$

where:

AN = Total On-Site drainage area in the BMP catchment area

AP = Impervious area proposed in the BMP catchment area

AP = Previous area remaining in the BMP catchment area

LR = TSS Load removed from the catchment area by the proposed BMP

Category	Value	Unit
AN	8.85	acres
AP	6.40	acres
AP	2.45	acres
LR	6344	lbs

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

Desired LM THIS BASIN = 3830 lbs.

F = 0.87

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

Calculations from RQ-348

Pages 3-34 to 3-36

Post Development Runoff Coefficient = 0.62

On-site Water Quality Volume = 8863 cubic feet

Off-site area draining to BMP = 0.00 acres

Off-site impervious cover draining to BMP = 0.00 acres

Impervious Fraction of off-site area = 0

Off-site Runoff Coefficient = 0.00

Off-site Water Quality Volume = 0 cubic feet

Storage for Sediment = 1777 cubic feet

Total Capture Volume (required water quality volume(s) x 1.20) = 10880 cubic feet

Designed as Required in RQ-348

Pages 3-38 to 3-63

8B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins = 10880 cubic feet

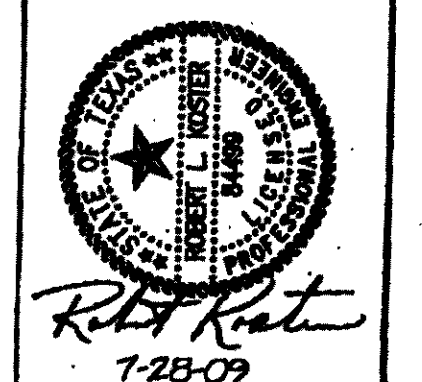
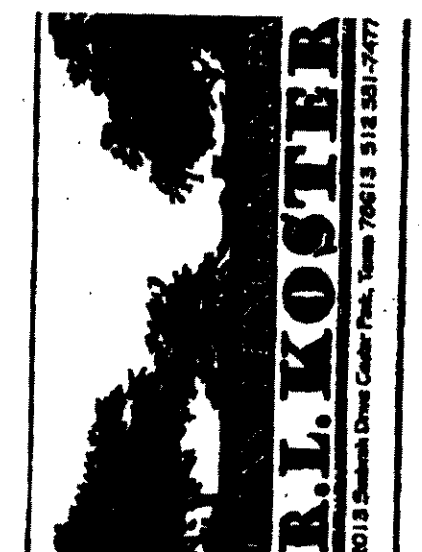
Minimum filter basin area = 1088 square feet

Maximum sedimentation basin area = 4284 square feet

Minimum sedimentation basin area = 287 square feet

Elevation (feet)	Area (sq ft)	A1 (sq ft)	A2 (sq ft)	Depth (ft)	Incremental Volume (cu ft)	Storage Volume (cu ft)
984.0	8,839	4,937	8,839	1.5	8,396	15,636
983.0	2,337	2,337	2,337	1.5	3,505	8,248
982.0	2,104	2,104	2,104	1.5	3,156	5,092
981.0	3,357	0	3,357	0.5	1,678	3,727
980.0	0	0	0	0.5	0	0
979.0	0	0	0	0.5	0	0

Interpretation for Water Quality Volume	10,880	Storage	88,348
Area (sq ft)	77,00	Depth (ft)	0.85
Area (sq ft)	77,00	Length (ft)	24.00
Area (sq ft)	77,00	Width (ft)	77.93



GOOD SHEPHERD LUTHERAN CHURCH
CEDAR PARK, TEXAS
POND LAYOUT SHEET

As-Built Set

DATE: 7-28-09

Sheet: Number

15

SHT 15 OF 21

APPROVED

PLANNING DEPT.

AUG 07 2009

CITY OF CEDAR PARK

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: Tammi Migl, PE

Date: 09/09/25

Signature of Customer/Agent:



Regulated Entity Name: Good Shepherd Lutheran Church

Project Information

Potential Sources of Contamination

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

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

☐ The following fuels and/or hazardous substances will be stored on the site: _____

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

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

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

Sequence of Construction

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

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

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

Soil Stabilization Practices

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

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

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

Administrative Information

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

ATTACHMENT A – SPILL RESPONSE ACTION

In Texas, upon determining that a reportable discharge or spill has occurred, the responsible person must notify the state. The threshold quantity that triggers the requirement to report a spill is called the reportable quantity (RQ). The reportable quantity depends on the type of substance released and where released (e.g. into water vs. on land); different kinds of spills are subject to different provisions of state and federal rules. Please visit https://www.tceq.texas.gov/response/spills/spill_rq.html for more information on how to report a spill.

The following steps will help reduce the stormwater impacts of leaks and spills:

Education

- 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 a spill must be reported to the TCEQ. Information is available in 30 TAC 327.4 and 40 CFR 302.4.
- Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.
- Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings.)
- Establish a continuing education program to indoctrinate new employees.
- Have contractor’s superintendent or representative oversee and enforce proper spill prevention and control measures.

General Measures

- 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.



- Store hazardous materials and wastes in covered containers and protect from vandalism.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- Train employees in spill prevention and cleanup.
- Designate responsible individuals to oversee and enforce control measures.
- Spills should be covered and protected from stormwater run-on during rainfall to the extent that it doesn't compromise clean up activities.
- Do not bury or wash spills with water.
- 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.
- 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.
- Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- 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.
- 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

- Clean up leaks and spills immediately.
- 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.



- 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

- 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.
- Use absorbent materials on small spills rather than hosing down or burying the spill.
- Absorbent materials should be promptly removed and disposed of properly.
- Follow the practice below for a minor spill:
- Contain the spread of the spill.
- Recover spilled materials.
- 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:

- Contain spread of the spill.
- Notify the project foreman immediately.
- 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.
- If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- 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:



- 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.
- 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 (800) 424-8802.
- Notification should first be made by telephone and followed up with a written report.
- The services of a spills contractor or a Haz-Mat 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.
- Other agencies which may need to be consulted include, but are not limited to, the City Police Department, Country Sheriff Office, Fire Departments, etc.

Vehicle and Equipment Maintenance

- If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the run-on of stormwater and the runoff of spills.
- Regularly inspect onsite vehicles and equipment for leaks and repair immediately.
- 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.
- Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- Place drip pans or absorbent materials under paving equipment when not in use.
- Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.



- Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. 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.
- Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid had 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

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



ATTACHMENT B – POTENTIAL SOURCES OF CONTAMINATION

Potential sources of contamination at the site include:

- Oil and other engine fluids from vehicles and equipment during and after construction.
- On-site maintenance and fueling of construction equipment.
- Short-term storage of flexible-base material, asphaltic products, pipe bedding materials and miscellaneous soils, gravel, etc.
- Emissions from vehicles.
- Tracking silt onto paved surfaces by construction equipment.
- Erosion/siltation from the construction disturbance.
- Possible littering around the construction site.
- Short-term exposure of soil surface during construction prior to stabilization.
- Short-term storage and use of fertilizers for use in establishing vegetation.

ATTACHMENT C – SEQUENCE OF CONSTRUCTION ACTIVITIES

The following list of activities will be followed once construction begins.

Activity:	Quantity:
Silt Fence	634 LF
Tree Protection	3,322 LF
Demolition Activities	0.80 AC
Utility Installation	3162 LF
Grading	0.95 AC
Paving/ Infrastructure	0.83 AC
Remove Temporary Erosion and Sedimentation Controls	634 LF



Revegetation

0.11 AC

ATTACHMENT D – TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

The temporary BMP's shall be designed and placed in accordance with City of Cedar Park and TCEQ requirements. The temporary BMP's shall be installed prior to any site preparation work (clearing, grubbing, or excavation) and will be in place for all sequenced activities.

Silt Fence

Silt fence shall be installed immediately down gradient and where possible, up-gradient, of area of disturbance. See the construction plans for details on the construction and installation of silt fence.

Tree Protection

Tree protection shall be installed around trees to prevent tree damage and potential damage or disturbance of the tree's root zone. See the construction plans for details on the construction and installation of tree protection measures.

ATTACHMENT E – REQUEST TO TEMPORARILY SEAL A FEATURE

NOT APPLICABLE

ATTACHMENT F – STRUCTURAL PRACTICES

Silt fence shall be installed immediately down gradient of any exposed soils in order to limit the discharge of silt and pollutants from disturbed areas of the site. Silt fence will also be installed up-gradient of the Contractor Staging Area to limit runoff across the construction area.



ATTACHMENT G – DRAINAGE AREA MAP



DRAINAGE AREA SUMMARY TABLE ATLAS 14				
Good Shepherd Lutheran Church				
DRAINAGE AREA	EXISTING		PROPOSED	
EX A	POND		A	POND
AREA (MI ²)	0.01384375		0.01384375	
Area (AC)	8.860		8.860	
CN	88.61		93.01	
% IC	47.86%		72.29%	
24 HR STORM				
2 - YR	23.55	14.35	33.80	15.78
10 - YR	39.20	22.49	53.34	27.93
25 - YR	54.87	32.85	73.27	37.52
100 - YR	69.25	42.40	90.51	47.23

72.29% impervious cover of Drainage area A = to 65% of total site area

DRAINAGE AREA SUMMARY TABLE SD-08-00030				
Good Shepherd Lutheran Church				
DRAINAGE AREA	EXISTING		PROPOSED	
EX A	POND		A	POND
AREA (MI ²)	0.01384375		0.01384375	
Area (AC)	8.860		8.860	
CN	84.52		93.01	
% IC	25.12%		72.29%	
24 HR STORM				
2 - YR	16.81		30.92	16.81
10 - YR	28.80		48.70	12.77
25 - YR	33.95		57.40	33.95
100 - YR	47.61		77.69	47.61

POND STORM ELEVATIONS (ATLAS 14):
2-YEAR STORM = 980.50
10-YEAR STORM = 981.34
25-YEAR STORM = 981.98
100-YEAR STORM = 982.80
TOP OF POND BERM = 984.00

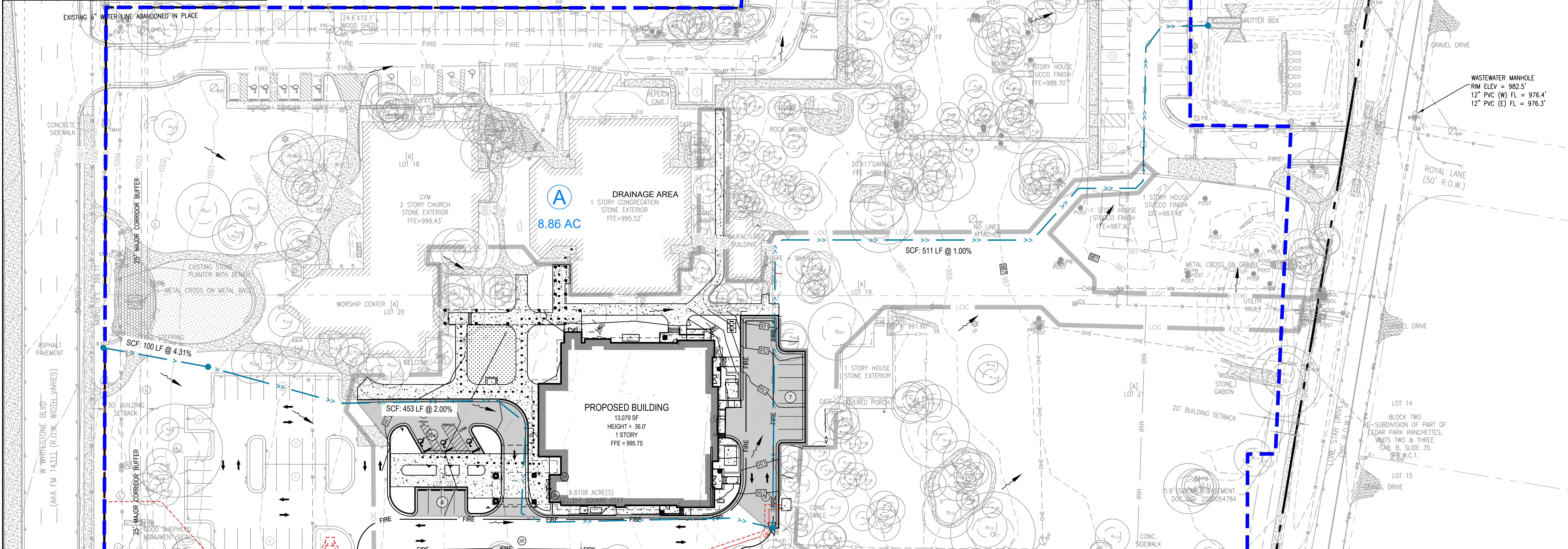
LEGEND

- SHEET FLOW
- SHALLOW CONCENTRATED FLOW
- CHANNEL FLOW
- PROPOSED DRAINAGE AREA DELINEATION
- FLOW DIRECTION

A

8.86 AC

DRAINAGE AREA



SCS TR-55 TIME OF CONCENTRATION AND TRAVEL TIME - PROPOSED CONDITIONS

DRAINAGE AREA "A"								
FLOW TYPE	LENGTH (FT)	SLOPE (ft/ft)	SURFACE	MANNINGS "N"	AREA (SF)	WP (FT)	VELOCITY (FPS)	TRAVEL TIME
SHEET	100	0.0431	e	0.15	n/a	n/a	n/a	0.106 hours
SHALLOW CONCENTRATED	453	0.0200	p	n/a	n/a	n/a	2.87	0.044 hours
SHALLOW CONCENTRATED	511	0.0080	p	n/a	n/a	n/a	1.82	0.078 hours
OPEN CHANNEL			n/a	-	-	-	-	0.000 hours
Time of Concentration							0.227 hours	
Lag Time							8.188 minutes	

WASTEWATER MANHOLE
RIM ELEV = 994.2'
6" PVC (N) FL = 990.5'
6" RCP (S) FL = 990.0'

WASTEWATER MANHOLE
RIM ELEV = 993.5'
6" PVC (N) FL = 989.3'
8" PVC (S) FL = 989.3'
8" PVC (W) FL = 989.3'

WASTEWATER MANHOLE
RIM ELEV = 986.0'
12" PVC (N) FL = 979.4'
12" PVC (W) FL = 979.0'
15" RCP (E) FL = 978.9'

CAUTION - ELECTRICITY PRESENT

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS THAT ENTER OR WORK ON THIS PROJECT ARE RESPONSIBLE FOR LOCATING, USING ONE-CALL OR THE ELECTRIC UTILITIES THEMSELVES, ALL OVERHEAD AND UNDERGROUND ELECTRICAL OF ANY NATURE AND FOR SAFEGUARDING ALL PERSONNEL ON THIS PROJECT, INCLUDING ANY OFF-SITE WORK AREAS SHOWN ON THE PLAN, FROM ANY INTERFERENCE WITH THE ELECTRIC LINES OR FROM DAMAGING, DIGGING UP OR UNCOVERING THE ELECTRIC LINES, GETTING A LADDER IN HARM'S WAY OR ANY OTHER ACTIVITY OF ANY NATURE THAT COULD HARM ANY INDIVIDUAL IN ANY MANNER. THIS RESPONSIBILITY HEREBY REMOVES MIGL ENGINEERING AND CONSULTING AND THE OWNER FROM ANY LIABILITY OF ANY NATURE.



Know what's below.
Call before you dig.

NOTES:
1. THE ENGINEER HAS REVIEWED PLANS PERTAINING TO THE DESIGN OF THE EXISTING DETENTION FACILITIES AND AGREES WITH THEIR DESIGN. PROPOSED DEVELOPMENT DOES NOT ADVERSELY AFFECT ANY DOWNSTREAM PROPERTIES.

WASTEWATER MANHOLE
RIM ELEV = 982.5'
12" PVC (W) FL = 976.4'
12" PVC (E) FL = 976.3'

MIGL ENGINEERING AND CONSULTING
9600 Escarpment Blvd, Suite 745-174
Austin, TX 78749 | 512 750 0440
Texas Registered Engineering Firm F-16967



CLIENT
GOOD SHEPHERD LUTHERAN CHURCH

PROJECT
NEW SANCTUARY
700 W WHITESTONE BOULEVARD
CEDAR PARK, TEXAS 78613

SHEET TITLE
PROPOSED DRAINAGE AREA
MAP

PROJECT NO.
0207.002

SHEET NO.
C19
19 OF 35

ATTACHMENT H – TEMPORARY SEDIMENT POND PLAN AND CALCULATIONS

NOT APPLICABLE

ATTACHMENT I – INSPECTION AND MAINTENANCE FOR BMPS

Silt Fences:

Inspect all silt fencing weekly and after any rainfall. Remove sediment when buildup reaches 6 inches. Replace any torn silt fence fabric or install a second line of fencing parallel to the torn section. Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of silt 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. Fences shall be checked for structural damage from stormwater flows immediately after a significant (0.5”) rainfall as soon as ground conditions make fences accessible (usually within 24 hours). Should there be prolonged rainfall, inspections should be conducted without vehicles and temporary repairs made until equipment can be brought in without major surface damage. Adjust fence configuration, if necessary, after rainfall events to accommodate conditions defined by stormwater flows. When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

Record keeping:

Project superintendent shall have a log for entering site inspections for both weekly and rainfall events. Results of inspections including damage and recommended repairs shall be noted, along with inspection personnel data and date of remedial action taken.



ATTACHMENT J – SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Interim soil stabilization shall be instituted as soon as practicable in portions of the site where construction activities have been temporarily or permanently ceased, but in no case more than fourteen (14) days; however, areas that will be redisturbed within twenty-one (21) days do not have to be stabilized. Records must be kept of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and as to when each soil stabilization measure was initiated in each area.



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

I Matthew Headley
Print Name

Director of Operations & Development
Title - Owner/President/Other

of Good Shepherd Lutheran Church
Corporation/Partnership/Entity Name

have authorized Tammi Migl, P.E.
Print Name of Agent/Engineer

of Migl Engineering and Consulting, PLLC
Print Name of Firm

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

I also understand that:

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

SIGNATURE PAGE:

Applicant's Signature

Matthew Headley
Date 9-22-2025

THE STATE OF TX §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Matthew Headley 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 22nd day of September 2025



Renee Meredith
NOTARY PUBLIC

Renee Meredith
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 01/31/2029

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Good Shepherd Lutheran Church

Regulated Entity Location: 700 W. Whitestone Boulevard, Cedar Park, Texas 78613

Name of Customer: Matthew Headley

Contact Person: Tammi Migl, P.E.

Phone: (512) 750 0440

Customer Reference Number (if issued):CN _____

Regulated Entity Reference Number (if issued):RN 105743777

Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone

☒ Contributing Zone

☐ Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	\$
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	1 Each	\$ 500
Extension of Time	Each	\$

Signature: _____



Date: 9/08/2025

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

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



TCEQ Use Only

TCEQ Core Data Form

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 CZ Exception
2. Customer Reference Number (if issued)		3. Regulated Entity Reference Number (if issued)
CN N/A		RN 105743777

[Follow this link to search for CN or RN numbers in Central Registry**](#)

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 Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		☐ Change in Regulated Entity Ownership	
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:	
Good Shepherd Lutheran Church			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
N/A	17462041637	N/A	N/A
11. Type of Customer:	☐ Corporation	☐ Individual	Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other	☐ Sole Proprietorship	☒ Other: Church	
12. Number of Employees		13. Independently Owned and Operated?	
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher		☒ Yes ☐ No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
☐ Owner ☐ Operator ☒ Owner & Operator			
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:			
15. Mailing Address:	Good Shepherd Lutheran Church		
	700 W. Whitestone Boulevard		
	City	Cedar Park	State TX ZIP 78613 ZIP + 4
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
		mheadley@gstx.org	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
(512) 258-6227		() -	

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.)	
Good Shepherd Lutheran Church	

23. Street Address of the Regulated Entity: (No PO Boxes)	700 W. Whitestone Boulevard							
	City	Cedar Park	State	TX	ZIP	78613	ZIP + 4	
24. County	Williamson							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:								
26. Nearest City						State	Nearest ZIP Code	
27. Latitude (N) In Decimal:	30.517577			28. Longitude (W) In Decimal:	97.836444			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
30	31	3.28	97	50	11.20			
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)			
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Church of Worship								
34. Mailing Address:	Good Shepherd Lutheran Church							
	700 W. Whitestone Boulevard							
	City	Cedar Park	State	TX	ZIP	78613	ZIP + 4	
35. E-Mail Address:	mheadley@gstx.org							
36. Telephone Number	37. Extension or Code		38. Fax Number (if applicable)					
(512) 258-6227			() -					

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.

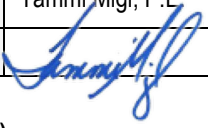
☐ Dam Safety	☐ Districts	☒ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Waste Water	☐ Wastewater Agriculture	☐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

SECTION IV: Preparer Information

40. Name:	Tammi Migl, P.E.		41. Title:	Principal
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(512) 750-0440		() -	Tammi@miglengineering.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:	Migl Engineering and Consulting, PLLC	Job Title:	Principal
Name (In Print):	Tammi Migl, P.E.	Phone:	(512) 750- 0440
Signature:		Date:	9/25/2025