



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
Matthew Headley
700 W. Whitestone Boulevard
Cedar Park, Texas 78613



Kyle C. Quick 5/26/23

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

Project No. 0109.011
May 2023

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

Technical Review

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

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: 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
7. Land Use: (Please circle/check one)	Residential	Non-residential			8. Site (acres):		9.811 acres
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)	<input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Barton Springs/ Edwards Aquifer <input type="checkbox"/> Hays Trinity <input type="checkbox"/> Plum Creek	<input type="checkbox"/> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<input type="checkbox"/> Austin <input type="checkbox"/> Buda <input type="checkbox"/> Dripping Springs <input type="checkbox"/> Kyle <input type="checkbox"/> Mountain City <input type="checkbox"/> San Marcos <input type="checkbox"/> Wimberley <input type="checkbox"/> Woodcreek	<input type="checkbox"/> Austin <input type="checkbox"/> Bee Cave <input type="checkbox"/> Pflugerville <input type="checkbox"/> Rollingwood <input type="checkbox"/> Round Rock <input type="checkbox"/> Sunset Valley <input type="checkbox"/> West Lake Hills	<input type="checkbox"/> Austin <input checked="" type="checkbox"/> Cedar Park <input type="checkbox"/> Florence <input type="checkbox"/> Georgetown <input type="checkbox"/> Jerrell <input type="checkbox"/> Leander <input type="checkbox"/> Liberty Hill <input type="checkbox"/> Pflugerville <input type="checkbox"/> Round Rock

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

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

Kyle Quick, P.E.

Print Name of Customer/ Authorized Agent		5/26/23
Signature of Customer/ Authorized Agent		Date

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

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.

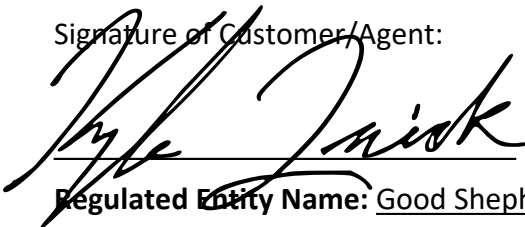
Signature

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: Kyle Quick, P.E.

Date: 5/26/23

Signature of Customer/Agent:

A handwritten signature in black ink that reads "Kyle Quick". The signature is written in a cursive style and is positioned above a horizontal line.

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: Kyle Quick, P.E.

Entity: Migl Engineering and Consulting, PLLC

Mailing Address: 9600 Escarpment Boulevard, Suite 745-174

City, State: Austin, Texas

Zip: 78749

Telephone: (512) 965-2318

Fax: _____

Email Address: Kyle@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.



VICINITY MAP

1" = 1000'

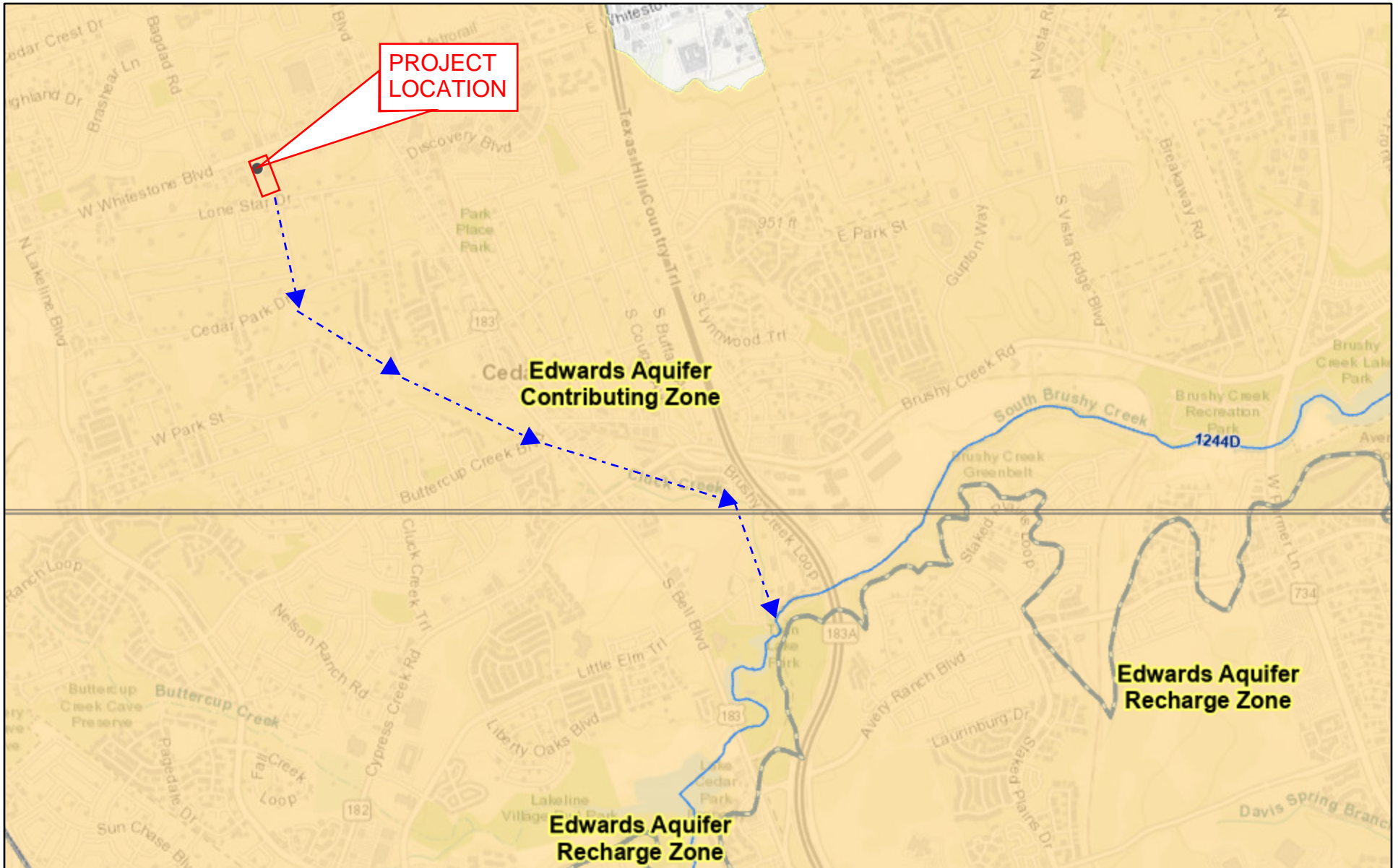
MAPSCO MAP 372V
CITY GRID NO. D43



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

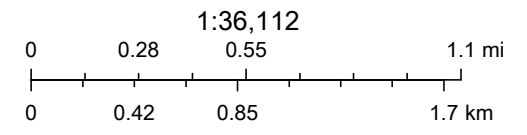
<p>CLIENT/PROJECT GOOD SHEPHERD LUTHERAN CHURCH 700 W WHITESTONE BLVD. CEDAR PARK, TEXAS 78613</p>	<p>PROJECT NO. 0109.011</p>
<p>SHEET TITLE VICINITY MAP</p>	<p>SHEET NO. EX 1 1 OF 1</p>

Good Shepherd Lutheran Church



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

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



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

Web AppBuilder for ArcGIS

ATTACHMENT C – PROJECT DESCRIPTION

1.0 GENERAL PROJECT INFORMATION

The site improvements consist of additional parking and sidewalk improvements of the Good Shepherd Lutheran Church campus located at 700 W Whitestone Blvd, Cedar Park, Texas. The site is located at the intersections of W Whitestone Blvd and Royal Lane, and Royal Lane and Lone Star Drive. Approximately 1.42 acres of land will be utilized for the new sidewalk and parking.

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 existing improvements include a congregation hall, church, offices, class rooms, a single-family home, and playground; 4 driveways and 276 parking spaces; water, wastewater, and fire services; and a sedimentation-filtration water quality pond and detention pond. The existing impervious cover total 3.88 acres or 39.51%.

3.0 SITE IMPROVEMENTS

The proposed improvements to the existing campus include a widened driveway to Whitestone Boulevard, additional parking along the eastern entrance and in the northwest corner, and a walking trail and gathering areas in the open space along the northern façade. The existing BMPs are designed to handle all proposed impervious cover. This phase will increase the impervious cover by 12,433 square feet for a site total of 181,266 square feet (4.161 acres) or 42.42%. The existing partial sedimentation-filtration pond was designed and approved for an ultimate condition of 72.32% 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 phase 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 an addition to the parking lot along with new walking paths and trails centered around a landscaped gathering area.

The CZP approval letter is included with this Exception Request for EAPP ID No. 09052802, Regulated Entity No. RN105743777.

ATTACHMENT E – EQUIVALENT WATER QUALITY PROTECTION

The existing BMP satisfies the requirements of TCEQ as a partial sedimentation-filtration pond. The existing water quality pond provides 10,660 cubic feet of volume to remove 3630 lbs of TSS and meets the 80% removal of total suspended solids for the ultimate condition of 72.32% impervious cover. The existing impervious cover is 39.51% and this phase will increase the impervious cover by 12,433 square feet for a site total of 181,266 square feet (4.161 acres) or 42.42%.

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.



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

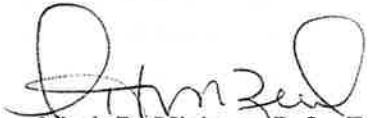
July 15, 2009

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

OWNER: GOOD SHEPHERD LUTHERAN CHURCH
700 W WHITESTONE BLVD.
CEDAR PARK, TEXAS 78613

LANDSCAPE ARCHITECT: JONATHAN WAGNER
STUDIO 16:19
305 W. LIBERTY AVE, SUITE 100
ROUND ROCK, TX 78664

CIVIL ENGINEER: KYLE QUICK, P.E.
MIGL ENGINEERING AND CONSULTING
9600 ESCARPMENT BLVD, SUITE 745-174
AUSTIN, TX. 78749
kyle@miglengineering.com
512-965-2318

SUBMITTAL DATE: MARCH 27, 2023

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.
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: 30,015 SF

TOTAL SITE AREA: 9.81 AC.

TABS/TDLR: TABS2023014970

SITE DEVELOPMENT PLANS FOR GOOD SHEPHERD LUTHERAN CHURCH 700 W WHITESTONE BLVD. CEDAR PARK, TEXAS 78613

SHEET LIST TABLE	
SHEET #	SHEET TITLE
1	COVER
2	PLAT
3	GENERAL NOTES
4	TCEQ NOTES
5	EXISTING CONDITIONS PLAN
6	DEMOLITION PLAN
7	EROSION AND SEDIMENTATION CONTROL PLAN
8	EROSION AND SEDIMENTATION CONTROL DETAILS
9	SITE PLAN
10	GRADING PLAN
11	DRAINAGE AREA MAP
12	AS BUILT POND LAYOUT SHEET
13	AS BUILT WATER QUALITY POND DETAILS
14	DETAILS
15	LANDSCAPE NOTES
16	LANDSCAPE SCHEDULE AND CALCULATIONS
17	OVERALL LANDSCAPE PLAN
18	LANDSCAPE PLAN
19	LANDSCAPE DETAILS



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. 0109.011
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,

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 _____	2023-3-SD



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 HARMIS 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.

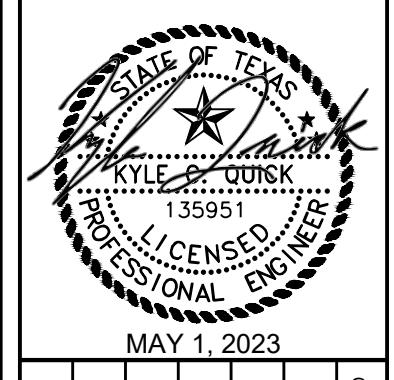
- PROJECT DESCRIPTION**
- THIS PROJECT CONSISTS OF THE CONSTRUCTION OF PARKING AND ACCESS IMPROVEMENTS FOR EXISTING BUILDINGS TOTALING 30,015 GROSS SQ. FT. ON A 9.81 AC. SITE
- NOTES TO CONTRACTOR**
- BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, ALL SUBCONTRACTORS, AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS 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.
 - 10.1. EXCAVATION FOR UTILITY WORK WILL REQUIRE AN EXCAVATION PERMIT
 - 10.2. ALL DRIVEWAYS AND CONCRETE WORK WILL REQUIRE A DRIVEWAY/ SIDEWALK PERMIT
 - 10.3. ALL TRAFFIC CONTROL AND PEDESTRIAN PROTECTION WILL REQUIRE A TEMPORARY USE OF ROW PERMIT
 - 10.4. 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 TRAFFIC CONTROL 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.

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



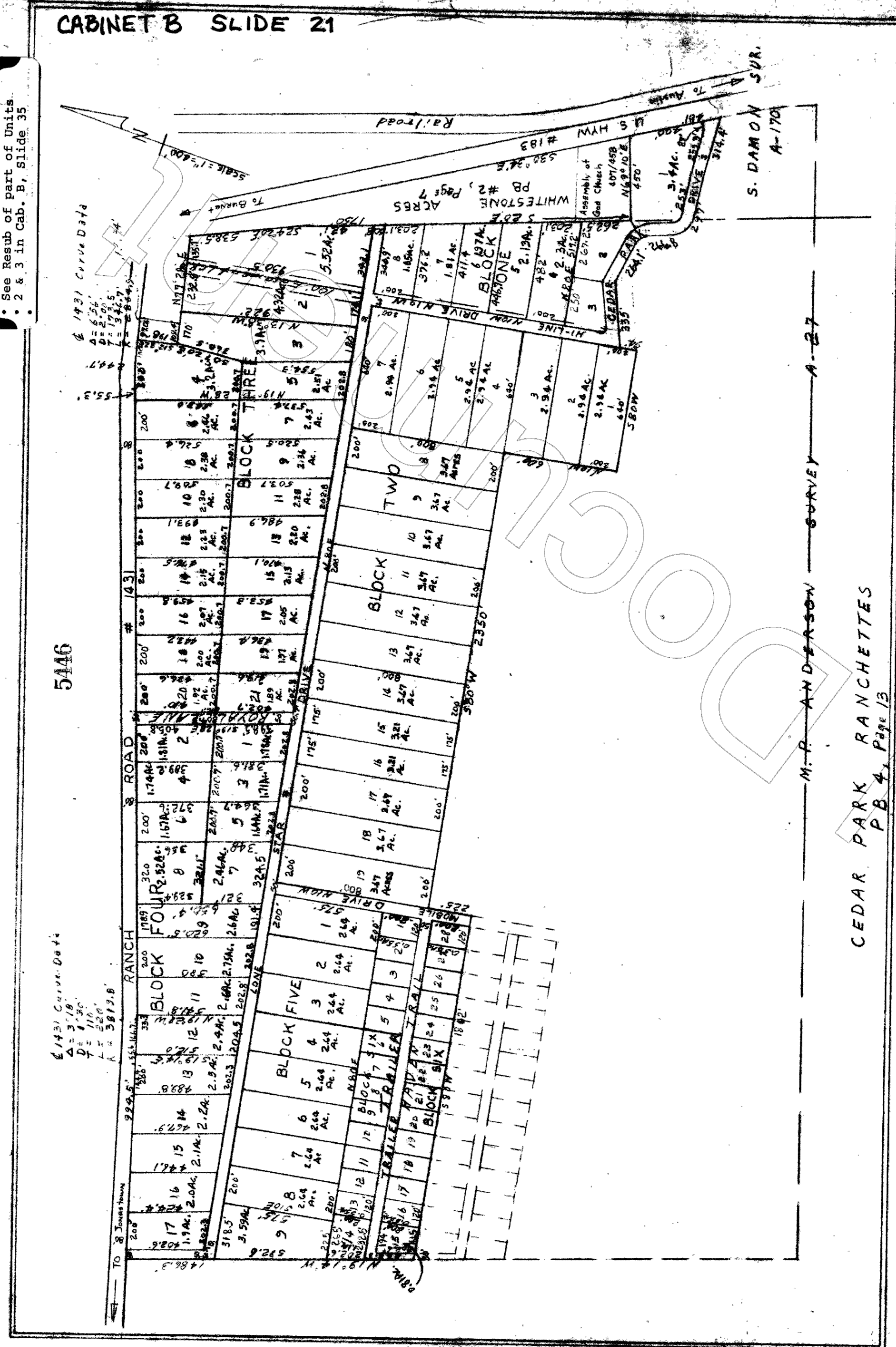
NO.	DATE	REVISIONS	RECORD ID

CLIENT: GOOD SHEPHERD LUTHERAN CHURCH
 PROJECT: GOOD SHEPHERD LUTHERAN CHURCH
 700 W WHITESTONE BLVD.
 CEDAR PARK, TEXAS 78613

SHEET TITLE: COVER
 PROJECT NO: 0109-011
 SHEET NO: 1
 1 OF 19

IMAGES: "MIGL" OR "SPACE" OR "REFS" - "MIGL" OR "SPACE" BORDER: "MIGL" OR "SPACE"

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



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

5446

6-14-31 Curve Data
 R = 176.0
 D = 9.26
 L = 116.0
 L = 591.7.8

BE I. 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 the connection to be constructed or placed in such streets, roads, etc., or in connection therewith, shall be the responsibility of the owners 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.

Sam V. Stone
 Sam V. Stone, County Judge

ATTEST:
 I, Sam V. Stone, County Judge of Williamson County, Texas, do hereby certify that the above and foregoing description is true and correct, and that the original description 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.

Sam V. Stone
 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.

Sam V. Stone
 NOTARY PUBLIC IN AND FOR WILLIAMSON COUNTY, TEXAS



STATE OF TEXAS
 COUNTY OF WILLIAMSON I KNOW ALL MEN BY THESE PRESENTS:
 I, W. Forest, a Registered Public Surveyor, do hereby certify that I am the owner of 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.

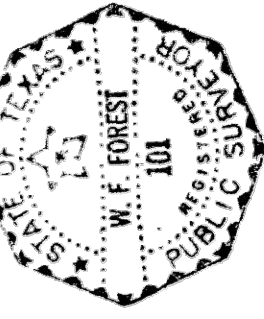
Perimeter Description

BEING 227.5 acres in Williamson County, Texas, 4.1 acres of the S. Damon Survey, Abst. # 170, and 223.4 acres of the W.F. Anderson Survey, Abst. # 27, part of a tract of 428.95 acres described in a deed from D.N. Eurrell 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 the same; THENCE N 73° 50' 45" E 94.5 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 N 70° 41' 10" E 203 feet, N 73° 05' 10" E 101 feet, N 71° 35' 10" E 101.1 feet, and N 70° 41' 10" E 203 feet, to the end of the curve, a 2 deg. curve to the right, 323.3 feet to a R O W marker at the Beginning of the curve around the curve; THENCE S 12° 31' 15" E 198 feet, THENCE S 12° 31' 15" E 198 feet, THENCE S 77° 28' 12" E 567.2 feet, THENCE S 20° E 1750 feet, THENCE S 69° 10' E 450 feet, THENCE S 30° 34' E 481 feet, to the S.E. corner of this Subdivision, THENCE with the South line of Cedar Park Drive; S 86° 19' W 314.4 feet, 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 255 feet, S 80° W 1802 feet, THENCE N 19° 14' W 1486.3 feet to the POINT OF BEGINNING.

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

W.F. Forest
 REGISTERED PUBLIC SURVEYOR # 101 W.F. FOREST



41

SHEET TITLE PROJECT NO. SHEET NO. 2 OF 19	CLIENT GOOD SHEPHERD LUTHERAN CHURCH PROJECT GOOD SHEPHERD LUTHERAN CHURCH 700 W WHITESTONE BLVD. CEDAR PARK, TEXAS 78613	NO. _____ DATE _____ REVISIONS _____ RECORD _____	STATE OF TEXAS LICENSED PROFESSIONAL ENGINEER KYLE E. QUISK 135951 MAY 1, 2023	MIGL ENGINEERING AND CONSULTING 9600 Escarpment Blvd, Suite 745-174 Austin, TX 78749 512 750 0440 Texas Registered Engineering Firm F-16967
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**Texas Commission on Environmental Quality
Contributing Zone Plan
General Construction Notes**

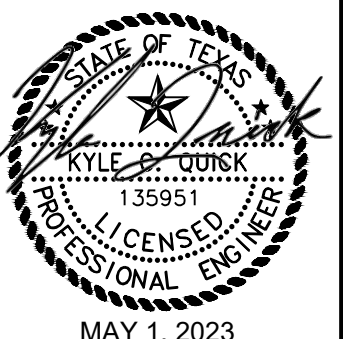
Edwards Aquifer Protection Program Construction Notes – Legal Disclaimer

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 manufacturer's 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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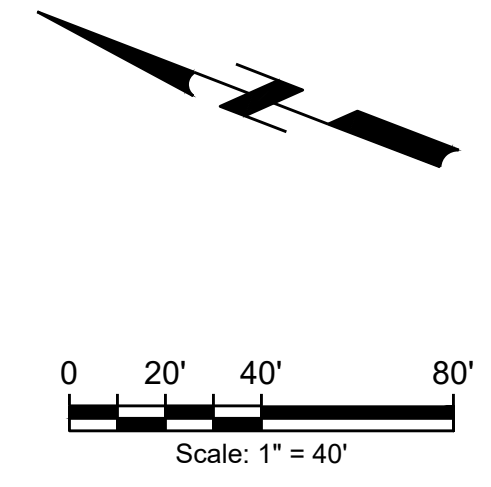
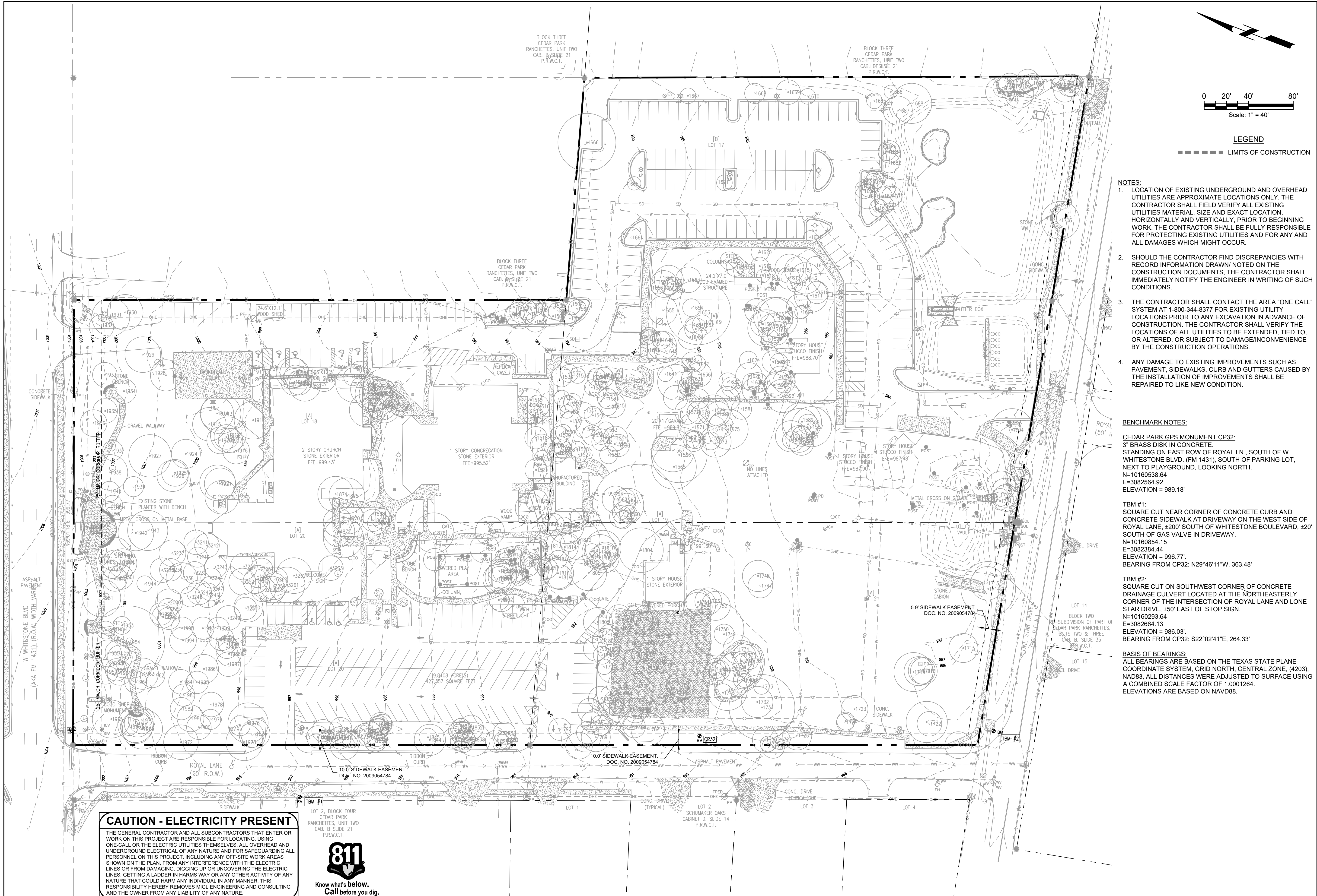
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Austin, TX 78749 | 512 750 0440
Texas Registered Engineering Firm F-16967



NO.	DATE	REVISIONS	RECORD

CLIENT GOOD SHEPHERD LUTHERAN CHURCH	PROJECT GOOD SHEPHERD LUTHERAN CHURCH 700 W WHITESTONE BLVD. CEDAR PARK, TEXAS 78613
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SHEET TITLE TCEQ NOTES
PROJECT NO. 0109-011
SHEET NO. 4 4 OF 19



LEGEND

■■■■■ LIMITS OF CONSTRUCTION

- 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" 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.

BENCHMARK NOTES:

CEEDAR 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=10160536.64
 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 WHITESTONE 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 NORTHEASTLY 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: S02°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.

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.



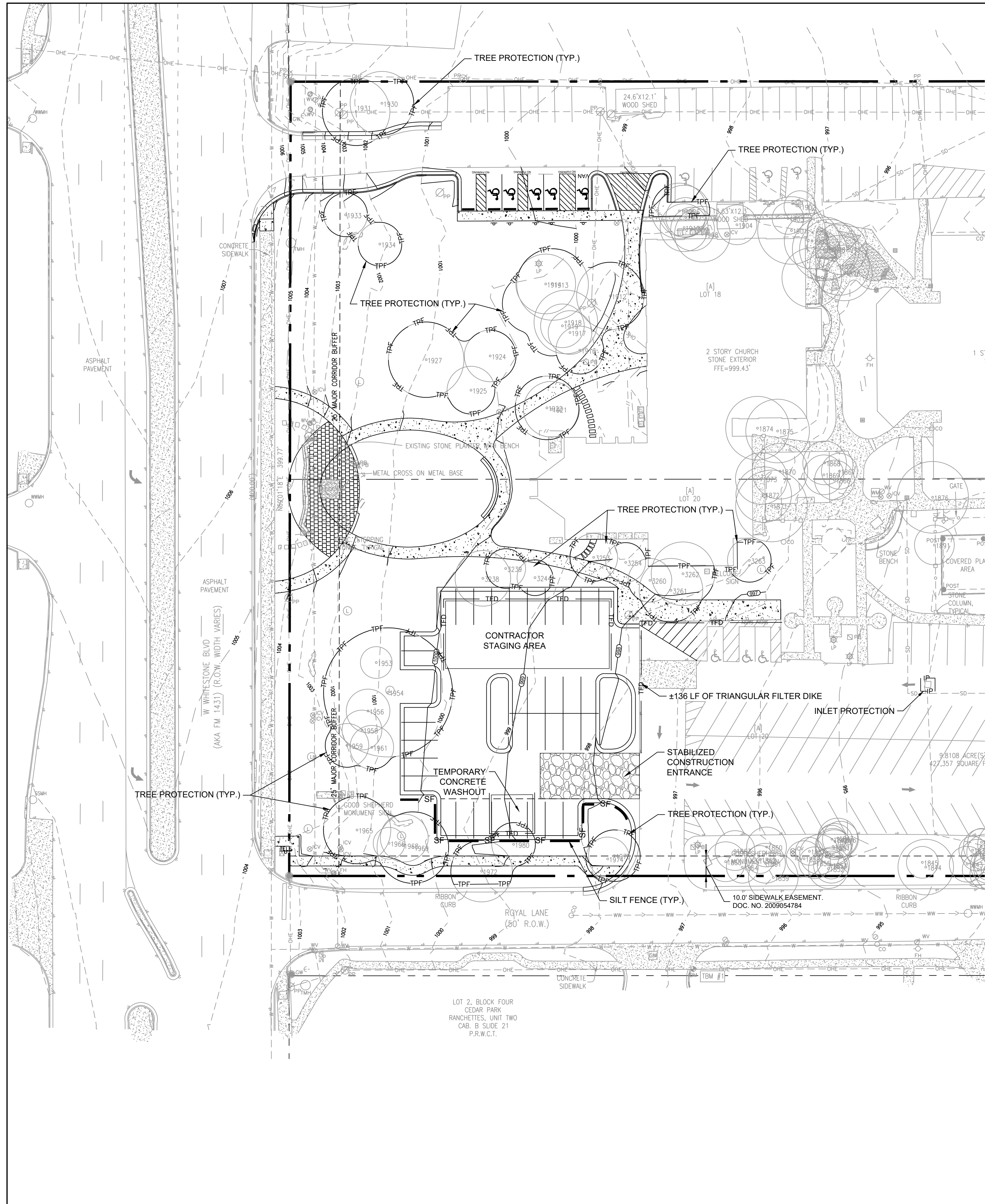
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NO.	DATE	REVISIONS	RECORD ID

CURT: GOOD SHEPHERD LUTHERAN CHURCH
 PROJECT: GOOD SHEPHERD LUTHERAN CHURCH
 700 W WHITESTONE BLVD.
 CEDAR PARK, TEXAS 78613

EXISTING CONDITIONS PLAN

SHEET TITLE: EXISTING CONDITIONS PLAN
 PROJECT NO: 10109-011
 SHEET NO: C5
 5 OF 19



- NOTES:**
- A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
 - ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE INSPECTOR AT TIME OF CONSTRUCTION.
 - THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY.
 - CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER ECM 1.4.5(D) OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
 - SILT FENCE TYPE AND INSTALLATION SHALL COMPLY WITH ECM 1.4.2(G).
 - ALL DISTURBED AREAS SHALL BE REVEGETATED TO MEET THE REQUIREMENTS OF THE CITY OF CEDAR PARK'S ORDINANCES.
 - IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 5 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP, OR REVEGETATION MATTING.
 - SEE SHEET C8 FOR REVEGETATION SPECIFICATIONS.
 - SEE SHEET C8 FOR EROSION/SEDIMENTATION CONTROL AND TREE PROTECTION NOTES AND DETAILS.
 - SEE SHEET C8 FOR REQUIREMENTS FOR MAINTAINING E/S CONTROLS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING POND DURING ALL CONSTRUCTION ACTIVITY PRIOR TO FINAL CERTIFICATE OF OCCUPANCY. COORDINATE WITH THE CITY OF CEDAR PARK'S STORMWATER COORDINATOR, DENNIS NIESLEN AT (512) 401-5359.
 - CONTRACTOR WILL CONTINUOUSLY CLEAN UP SPOILS THAT MIGRATE BEYOND THE LIMIT OF CONSTRUCTION.
 - CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 - ORANGE CONSTRUCTION FENCING IS REQUIRED WHERE LIMITS OF CONSTRUCTION IS SHOWN.

LEGEND

- LIMITS OF CONSTRUCTION
- TPF --- TREE PROTECTION FENCE
- SF --- SILT FENCE
- TFD --- TRIANGULAR FILTER DIKE
- IP --- INLET PROTECTION

TREE LIST

TREE NO.	TREE DESCRIPTION	TREE NO.	TREE DESCRIPTION	TREE NO.	TREE DESCRIPTION	TREE NO.	TREE DESCRIPTION
1501	8' Live Oak	1702	6' Cedar Elm	1904	10' Live Oak	2107	8' Live Oak
1502	8' Live Oak	1703	MS 12' 10" Live Oak	1905	14' Live Oak	2108	8' Live Oak
1503	6' Cedar Elm	1704	15' Live Oak	1906	13' Live Oak	2109	8' Live Oak
1504	8' Live Oak	1705	11' Live Oak	1907	13' Live Oak	2110	8' Live Oak
1505	10' Live Oak	1706	11' Live Oak	1908	14' Live Oak	2111	8' Live Oak
1506	9' Live Oak	1707	10' Live Oak	1909	11' Live Oak	2112	8' Live Oak
1507	10' Live Oak	1708	13' Live Oak	1910	12' Live Oak	2113	8' Live Oak
1508	11' Live Oak	1709	13' Live Oak	1911	12' Live Oak	2114	8' Live Oak
1509	7' Live Oak	1710	12' Live Oak	1912	17' Live Oak	2115	8' Live Oak
1510	11' Live Oak	1711	8' Live Oak	1913	18' Live Oak	2116	8' Live Oak
1511	9' Live Oak	1712	8' Live Oak	1914	15' Live Oak	2117	8' Live Oak
1512	12' Live Oak	1713	15' Live Oak	1915	15' Live Oak	2118	8' Live Oak
1513	12' Live Oak	1714	MS 17' 15" Live Oak	1916	12' Live Oak	2119	8' Live Oak
1514	10' Live Oak	1715	13' Live Oak	1917	9' Live Oak	2120	8' Live Oak
1515	10' Live Oak	1716	12' Live Oak	1918	16' Live Oak	2121	8' Live Oak
1516	10' Live Oak	1717	12' Live Oak	1919	10' Live Oak	2122	8' Live Oak
1517	9' Live Oak	1718	13' Live Oak	1920	11' Live Oak	2123	8' Live Oak
1518	10' Live Oak	1719	MS 13' 9" Live Oak	1921	14' Live Oak	2124	8' Live Oak
1519	10' Live Oak	1720	12' Cedar Elm	1922	16' Live Oak	2125	8' Live Oak
1520	8' Live Oak	1721	MS 9' 7" Cedar Elm	1923	15' Live Oak	2126	8' Live Oak
1521	10' Live Oak	1722	11' Cedar Elm	1924	10' Live Oak	2127	8' Live Oak
1522	9' Live Oak	1723	12' Live Oak	1925	12' Live Oak	2128	8' Live Oak
1523	8' Live Oak	1724	8' Live Oak	1926	14' Live Oak	2129	8' Live Oak
1524	8' Live Oak	1725	8' Live Oak	1927	19' Live Oak	2130	8' Live Oak
1525	8' Live Oak	1726	13' Cedar Elm	1928	14' Live Oak	2131	8' Live Oak
1526	8' Live Oak	1727	9' Live Oak	1929	10' Live Oak	2132	8' Live Oak
1527	7' Live Oak	1728	10' Cedar Elm	1930	10' Live Oak	2133	8' Live Oak
1528	7' Live Oak	1729	7' Live Oak	1931	11' Live Oak	2134	8' Live Oak
1529	10' Live Oak	1730	MS 8' 7" Live Oak	1932	11' Live Oak	2135	8' Live Oak
1530	7' Live Oak	1731	7' Live Oak	1933	11' Live Oak	2136	8' Live Oak
1531	9' Live Oak	1732	14' Cedar Elm	1934	11' Live Oak	2137	8' Live Oak
1532	6' Live Oak	1733	7' Live Oak	1935	11' Live Oak	2138	8' Live Oak
1533	8' Live Oak	1734	13' Live Oak	1936	12' Live Oak	2139	8' Live Oak
1534	8' Live Oak	1735	10' Live Oak	1937	12' Live Oak	2140	8' Live Oak
1535	7' Live Oak	1736	9' Live Oak	1938	10' Live Oak	2141	8' Live Oak
1536	9' Live Oak	1737	9' Live Oak	1939	16' Live Oak	2142	8' Live Oak
1537	8' Live Oak	1738	8' Live Oak	1940	9' Live Oak	2143	8' Live Oak
1538	7' Live Oak	1739	MS 9' 8" Live Oak	1941	9' Live Oak	2144	8' Live Oak
1539	7' Live Oak	1740	8' Live Oak	1942	16' Live Oak	2145	8' Live Oak
1540	8' Live Oak	1741	6' Live Oak	1943	MS 13' 10" Live Oak	2146	8' Live Oak
1541	9' Live Oak	1742	MS 13' 10" Live Oak	1944	7' Live Oak	2147	8' Live Oak
1542	7' Live Oak	1743	8' Live Oak	1945	15' Live Oak	2148	8' Live Oak
1543	8' Live Oak	1744	9' Live Oak	1946	13' Live Oak	2149	8' Live Oak
1544	9' Live Oak	1745	10' Live Oak	1947	13' Live Oak	2150	8' Live Oak
1545	11' Live Oak	1746	9' Live Oak	1948	8' Live Oak	2151	8' Live Oak
1546	8' Live Oak	1747	11' Live Oak	1949	8' Live Oak	2152	8' Live Oak
1547	7' Live Oak	1748	11' Live Oak	1950	11' Live Oak	2153	8' Live Oak
1548	8' Live Oak	1749	9' Live Oak	1951	10' Live Oak	2154	8' Live Oak
1549	8' Live Oak	1750	MS 14' 10" Live Oak	1952	8' Live Oak	2155	8' Live Oak
1550	6' Cedar Elm	1751	11' Live Oak	1953	8' Live Oak	2156	8' Live Oak
1551	7' Live Oak	1752	13' Live Oak	1954	MS 16' 12" 11" Live Oak	2157	8' Live Oak
1552	9' Live Oak	1753	12' Live Oak	1955	11' Live Oak	2158	8' Live Oak
1553	7' Live Oak	1754	14' Live Oak	1956	11' Live Oak	2159	8' Live Oak
1554	11' Live Oak	1755	13' Live Oak	1957	11' Live Oak	2160	8' Live Oak
1555	7' Live Oak	1756	8' Live Oak	1958	11' Live Oak	2161	8' Live Oak
1556	10' Live Oak	1757	7' Live Oak	1959	7' Live Oak	2162	8' Live Oak
1557	8' Live Oak	1758	8' Live Oak	1960	8' Live Oak	2163	8' Live Oak
1558	10' Live Oak	1759	10' Live Oak	1961	11' Live Oak	2164	8' Live Oak
1559	8' Live Oak	1760	11' Live Oak	1962	11' Live Oak	2165	8' Live Oak
1560	8' Live Oak	1761	13' Live Oak	1963	14' Live Oak	2166	8' Live Oak
1561	MS 10' 8" Live Oak	1762	10' Live Oak	1964	10' Live Oak	2167	8' Live Oak
1562	12' Live Oak	1763	11' Live Oak	1965	15' Live Oak	2168	8' Live Oak
1563	10' Live Oak	1764	8' Live Oak	1966	8' Live Oak	2169	8' Live Oak
1564	8' Live Oak	1765	11' Live Oak	1967	8' Live Oak	2170	8' Live Oak
1565	20' Live Oak	1766	7' Live Oak	1968	17' Live Oak	2171	8' Live Oak
1566	25' Live Oak	1767	8' Live Oak	1969	18' Live Oak		
1567	19' Live Oak	1768	7' Live Oak	1970	10' Live Oak		

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 Austin, TX 78749 | 512 750 0440
 Texas Registered Engineering Firm F-16967

STATE OF TEXAS
 KYLE G. QUISK
 LICENSED PROFESSIONAL ENGINEER
 139951
 MAY 1, 2023

CLIENT: GOOD SHEPHERD LUTHERAN CHURCH
 PROJECT: GOOD SHEPHERD LUTHERAN CHURCH
 700 W WHITESTONE BLVD.
 CEDAR PARK, TEXAS 78613

EROSION AND SEDIMENTATION CONTROL PLAN

SHEET TITLE: SHEET NO. 7 OF 19
 PROJECT NO. 0109-011
 DATE: 2023-3-SD



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.

LINEAR CONSTRUCTION THROUGH TREES

TREES IN PAVING AREA

NATURAL AREAS

TREES NEAR CONSTRUCTION ACTIVITY

INDIVIDUAL TREE

GROUP OF TREES

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT
STANDARD NO. 610S-1
APPROVED: 07/13/2001

TREE PROTECTION FENCE TYPE A - CHAIN LINK

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT
STANDARD NO. 610S-2
APPROVED: 07/13/2001

TREE PROTECTION FENCE MODIFIED TYPE A - CHAIN LINK

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT
STANDARD NO. 610S-4
APPROVED: 07/13/2001

STABILIZED CONSTRUCTION ENTRANCE

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT
STANDARD NO. 641S-1
APPROVED: 09/13/2001

TRENCH CROSS SECTION

SILT FENCE

CITY OF CEDAR PARK
ENGINEERING DEPARTMENT
STANDARD NO. 641S-1
APPROVED: 09/13/2001

TRIANGULAR SEDIMENT FILTER DIKE

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT
STANDARD NO. 628S
APPROVED: 07/13/2001

Concrete Washout Areas

Lower Colorado River Authority
Watershed Management
Erosion and Sedimentation Control Details

APPENDIX 2.1.1

CURB INLET PROTECTION WITH EROSION CONTROL LOG DETAIL

CITY OF ROUND ROCK
DRAWING NO. EC-13
APPROVED: 07-22-11

AREA INLET PROTECTION WITH EROSION CONTROL LOG DETAIL

CITY OF ROUND ROCK
DRAWING NO. EC-16
APPROVED: 07-22-11

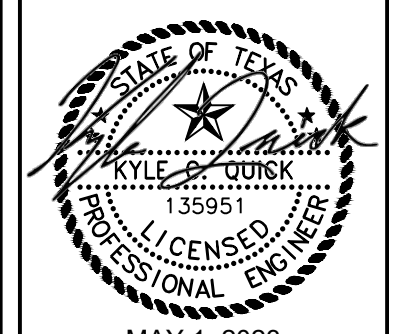
STORM INLET SEDIMENT TRAP

CITY OF CEDAR PARK
PUBLIC WORKS ENGINEERING
STANDARD DETAIL
APPROVED: 07/02/01

STORM INLET SEDIMENT TRAP

CITY OF CEDAR PARK
PUBLIC WORKS ENGINEERING
STANDARD DETAIL
APPROVED: 07/02/01

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Texas Registered Engineering Firm F-16967



NO.	DATE	REVISIONS	RECORD ID

CLIENT
GOOD SHEPHERD LUTHERAN CHURCH

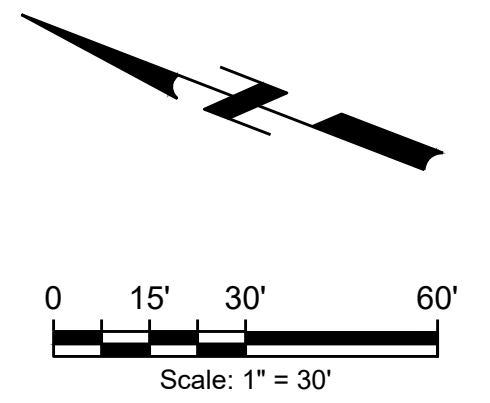
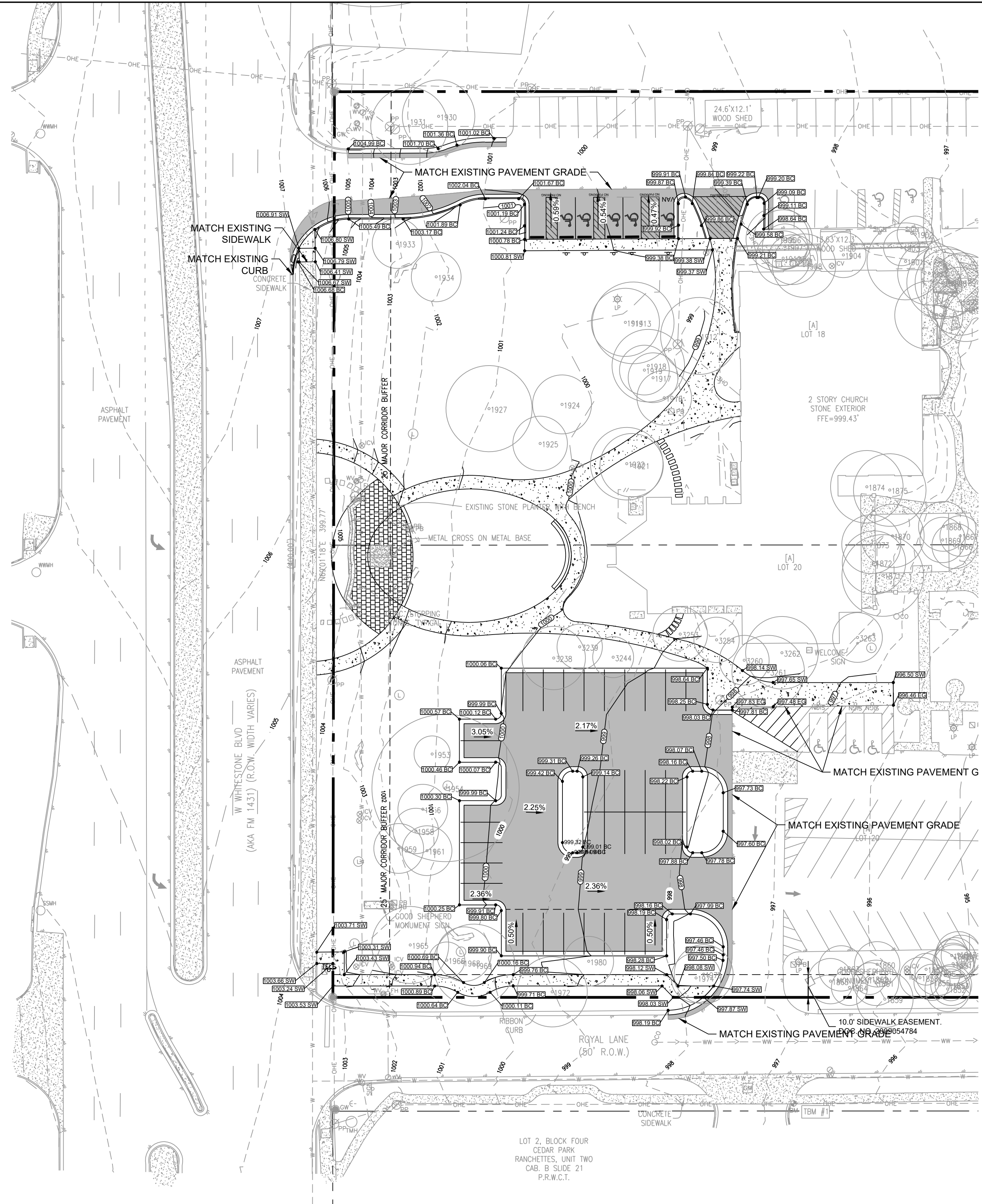
PROJECT
GOOD SHEPHERD LUTHERAN CHURCH
700 W WHITESTONE BLVD.
CEDAR PARK, TEXAS 78613

SHEET TITLE
EROSION AND SEDIMENTATION CONTROL DETAILS

PROJECT NO.
0109-011

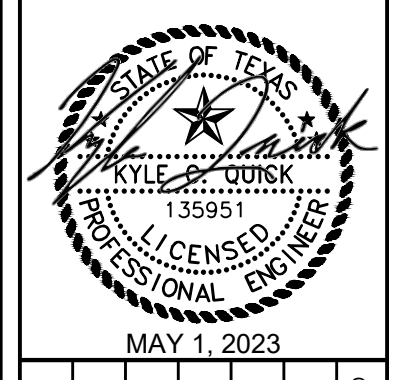
SHEET NO.
8
8 OF 19

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LEGEND
----- LIMITS OF CONSTRUCTION

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NO.	DATE	REVISIONS	RECORD ID

CLIENT
GOOD SHEPHERD LUTHERAN CHURCH

PROJECT
GOOD SHEPHERD LUTHERAN CHURCH
700 W WHITESTONE BLVD.
CEDAR PARK, TEXAS 78613

SHEET TITLE
GRADING PLAN

PROJECT NO.
10109-011

SHEET NO.
10
10 OF 19

CAUTION - ELECTRICITY PRESENT

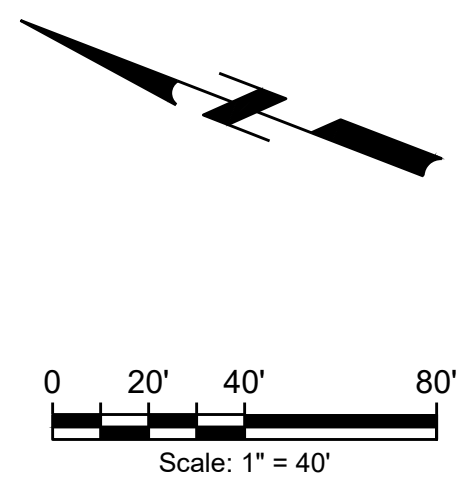
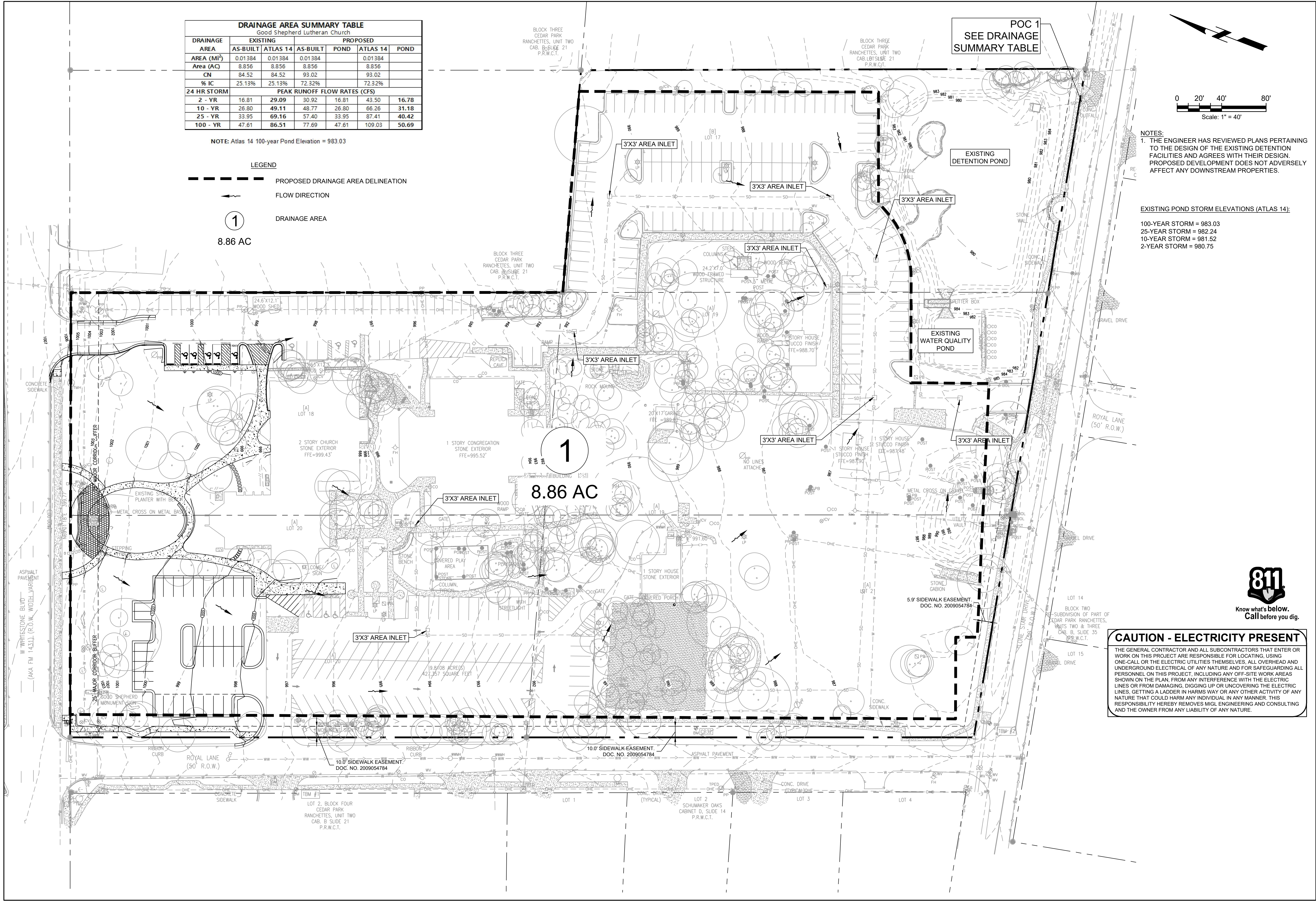
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DRAINAGE AREA SUMMARY TABLE						
Good Shepherd Lutheran Church						
DRAINAGE AREA	EXISTING			PROPOSED		
	AS-BUILT	ATLAS 14	AS-BUILT	POND	ATLAS 14	POND
AREA (MI ²)	0.01384	0.01384	0.01384		0.01384	
Area (AC)	8.856	8.856	8.856		8.856	
CN	84.52	84.52	93.02		93.02	
% IC	25.13%	25.13%	72.32%		72.32%	
24 HR STORM	PEAK RUNOFF FLOW RATES (CFS)					
2 - YR	16.81	29.09	30.92	16.81	43.50	16.78
10 - YR	26.80	49.11	48.77	26.80	66.26	31.18
25 - YR	33.95	69.16	57.40	33.95	87.41	40.42
100 - YR	47.61	86.51	77.69	47.61	109.03	50.69

NOTE: Atlas 14 100-year Pond Elevation = 983.03

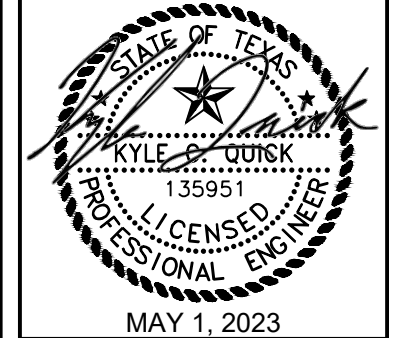
- LEGEND**
- PROPOSED DRAINAGE AREA DELINEATION
 - FLOW DIRECTION
 - DRAINAGE AREA
- 8.86 AC



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.

EXISTING POND STORM ELEVATIONS (ATLAS 14):
 100-YEAR STORM = 983.03
 25-YEAR STORM = 982.24
 10-YEAR STORM = 981.52
 2-YEAR STORM = 980.75

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PROJECT
 GOOD SHEPHERD LUTHERAN CHURCH
 700 W WHITESTONE BLVD.
 CEDAR PARK, TEXAS 78613

SHEET TITLE
 DRAINAGE AREA MAP

PROJECT NO.
 0109-011

SHEET NO.
 11
 11 OF 19



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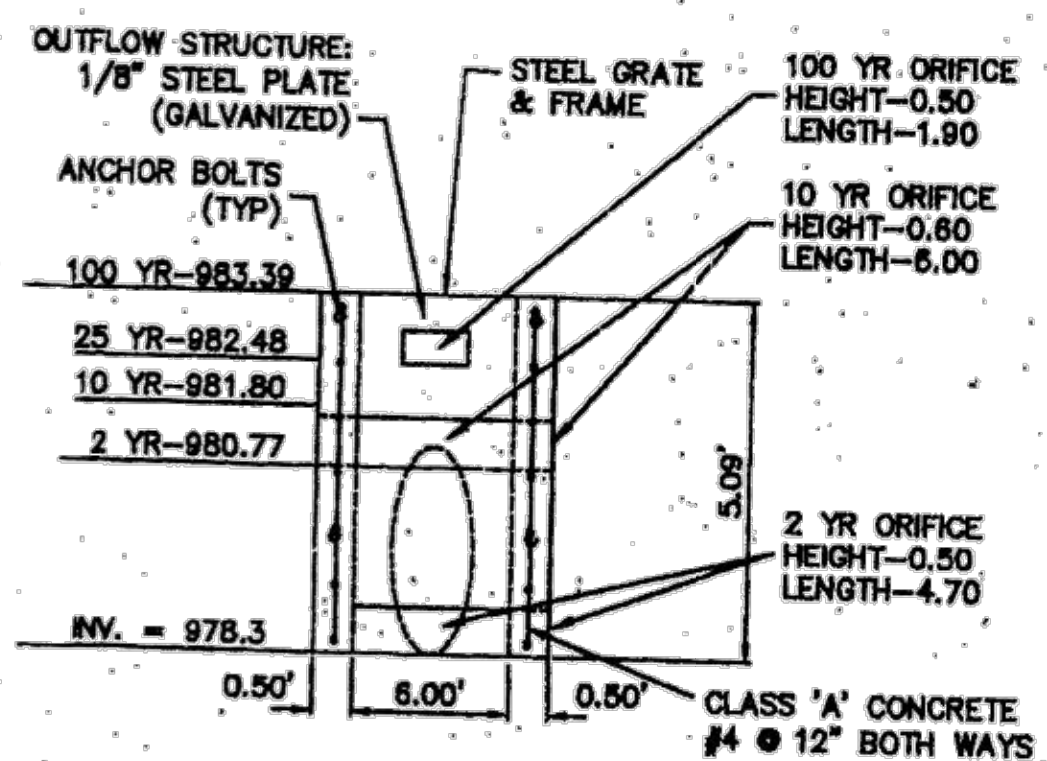
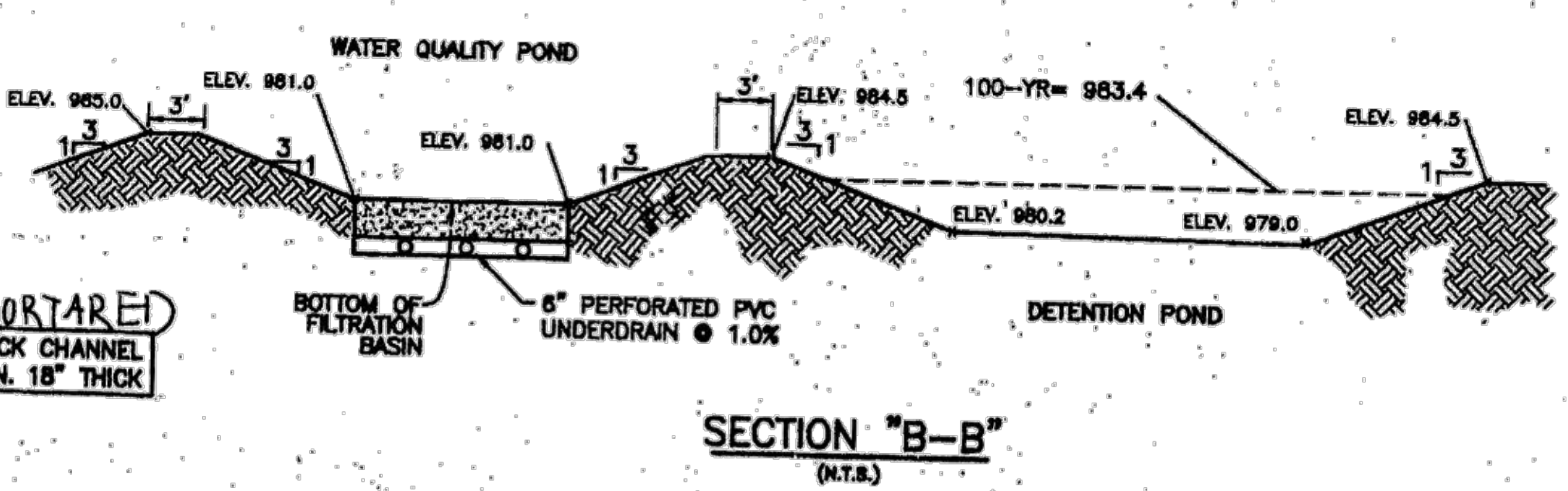
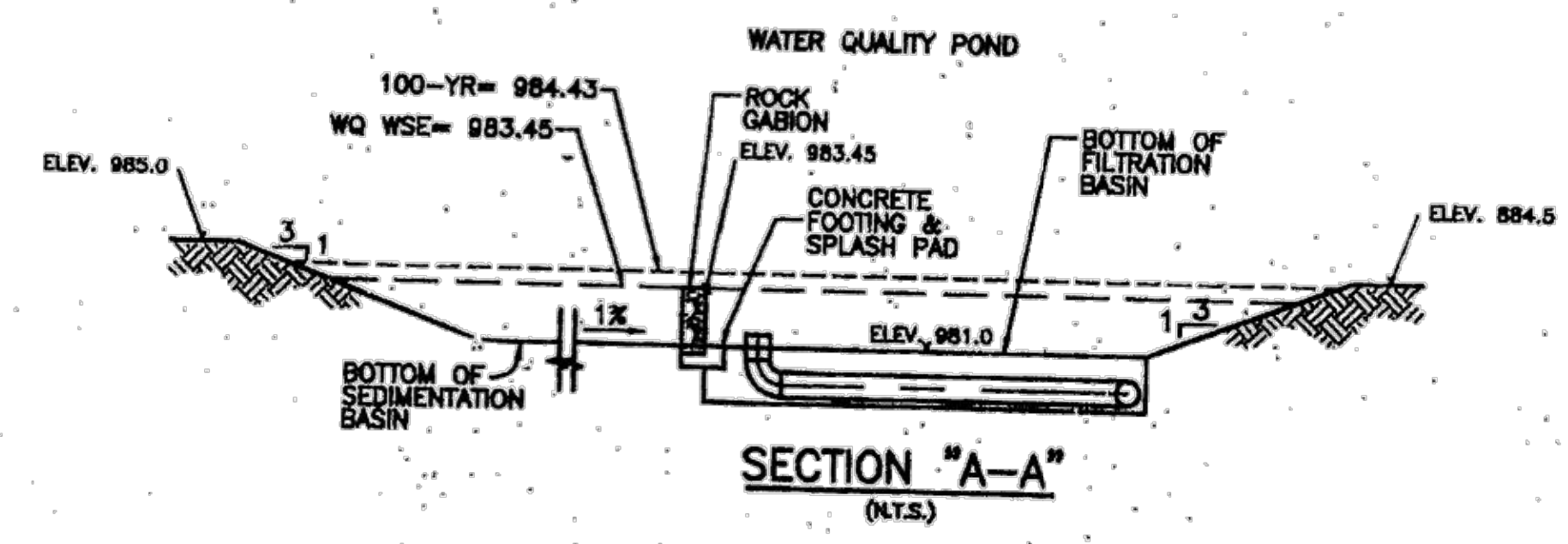
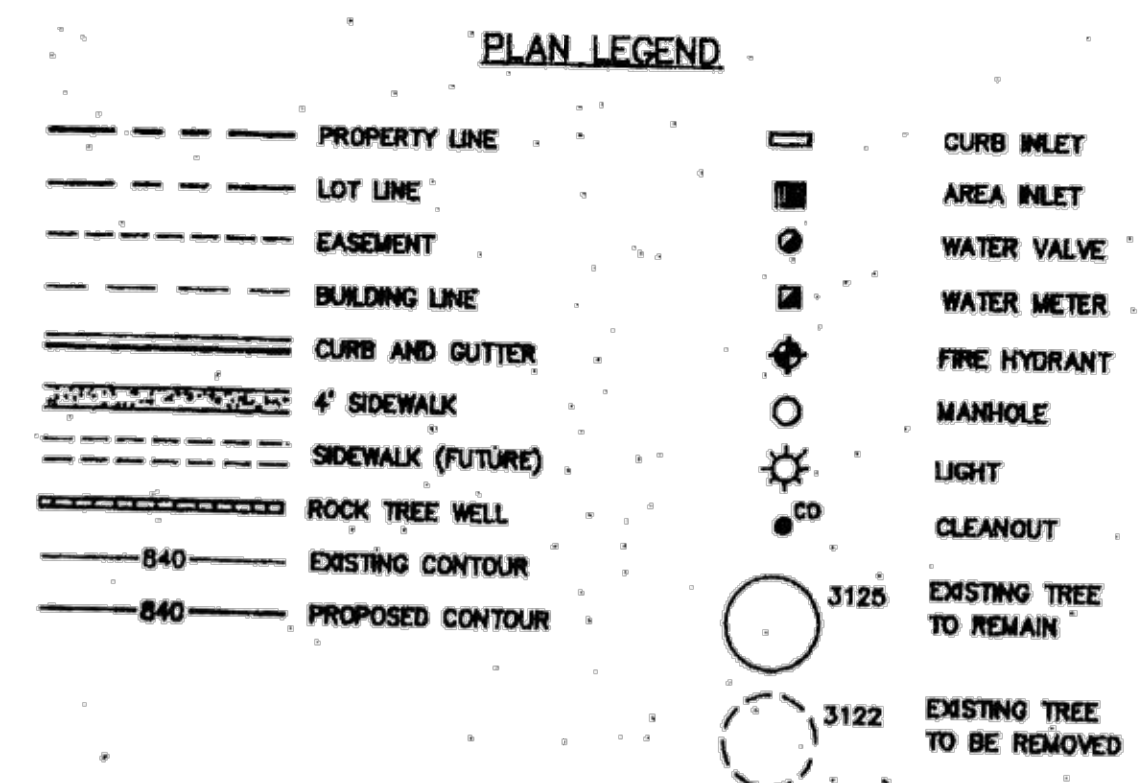
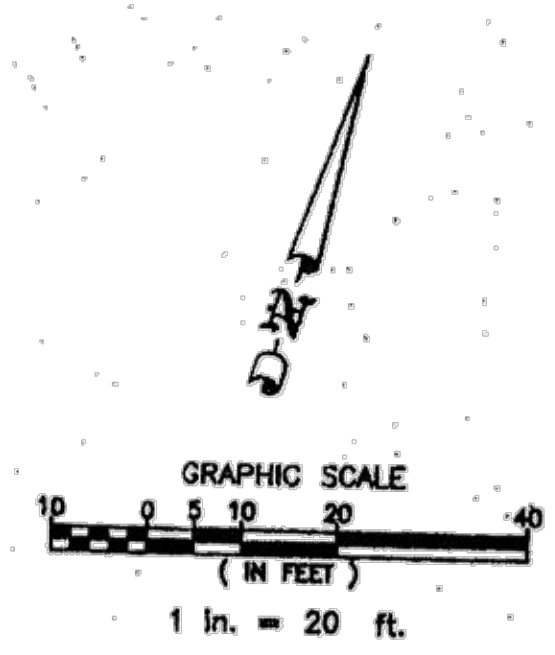
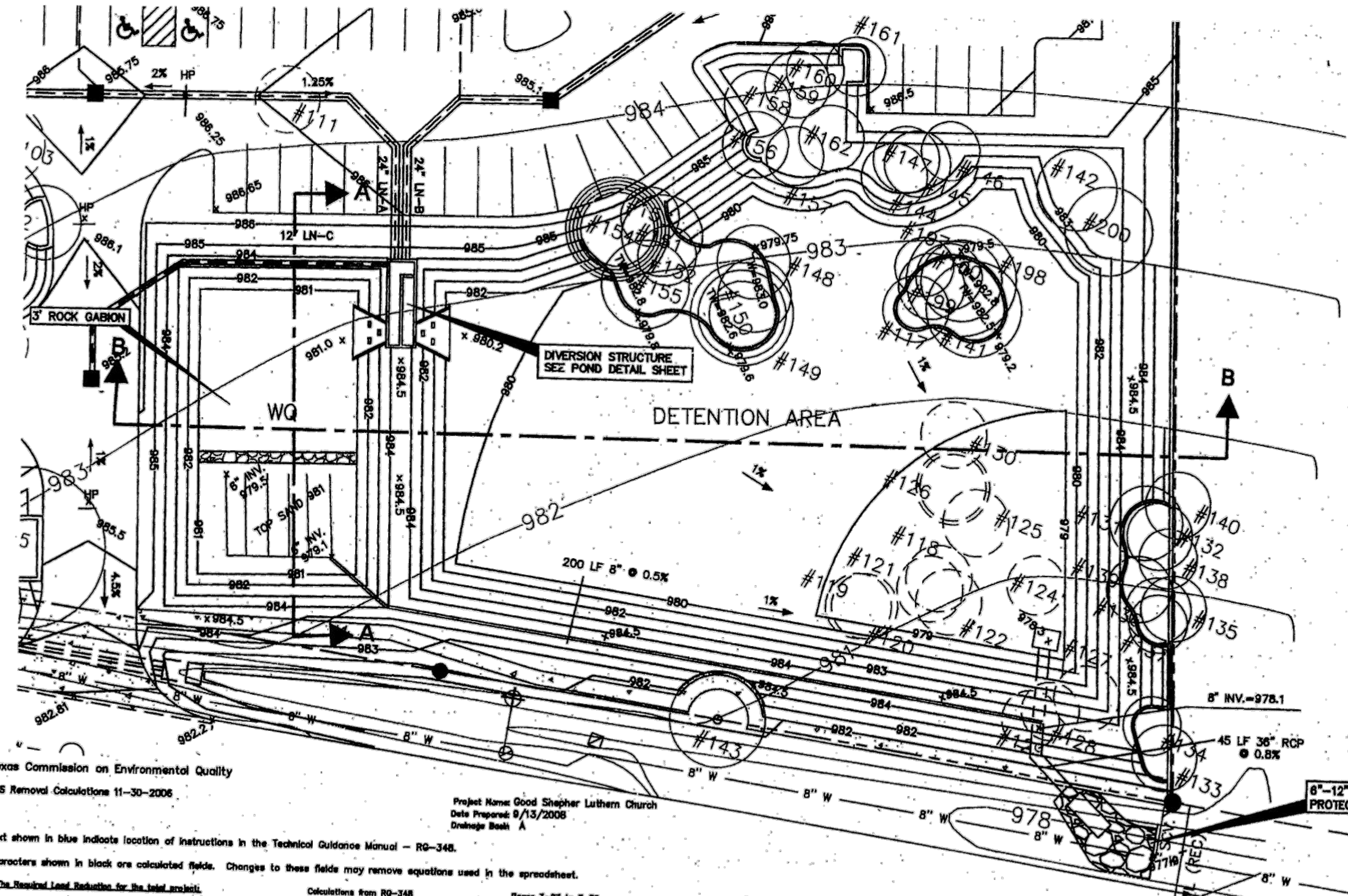


GOOD SHEPHERD LUTHERAN CHURCH
CEDAR PARK, TEXAS
POND LAYOUT SHEET

As-Built Set

DATE: 7-28-09

12 OF 19



Texas Commission on Environmental Quality
TSS Removal Calculations 11-30-2008
Project Name: Good Shepherd Lutheran Church
Date Prepared: 9/13/2008
Drainage Basin: A

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

Table with 2 columns: Category and Value. Includes Total project area, Predevelopment impervious area, Post-development impervious area, and LM TOTAL PROJECT = 3830 lbs.

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 assessed BMP Code for this basin.
Proposed BMP = SF abbreviation percent
Removal efficiency = 88

Table with 2 columns: BMP Code and BMP Type. Lists various Best Management Practices like AquatogTM Cartridge Filter, Bio-retention, etc.

4. Calculate TSS Load Removal (LR) for this Drainage Basin by the selected BMP Type.
RG-348 Page 8-23 Equation 8.7: $LR = (BMP \text{ efficiency}) \times P \times (AI \times 24.6 + AP \times 8.44)$

Table with 2 columns: Category and Value. Includes AI, AP, and LR values.

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 3-38
Rainfall Depth = 0.82 inches
Post Development Runoff Coefficient = 0.23
On-site Water Quality Volume = 8883 cubic feet

7. Filter area for Sand Filters.
Calculations from RG-348 Pages 3-35 to 3-37
Off-site area draining to BMP = 0.00 acres
Off-site impervious cover draining to BMP = 0.00 acres
Impervious fraction of off-site area = 0.00
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 = 10880 cubic feet

8. 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 for minimum water depth of 2 feet
Minimum sedimentation basin area = 267 square feet for maximum water depth of 8 feet

Table with 7 columns: Elevation (feet), Area (sq ft), A1 (sq ft), A2 (sq ft), Depth (ft), Incremental Volume (cf), Storage Volume (cf). Shows volume storage at different elevations.

Table with 2 columns: Category and Value. Includes 100-yr Flow Rate and 100-yr Peak Rate.

APPROVED
PLANNING DEPT.
AUG 07 2009
CITY OF CEDAR PARK

STORAGE VOLUME DESIGN

Centroidal Volumetric Methodology $D(2(A2-A1)/3+1)$

Elevation (feet)	Area (sf)	A1 (sf)	A2 (sf)	Depth (ft)	Incremental Volume (cf)	Storage Volume (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
2-yr A (sf)	2.34
2-yr Q (cfs)	14.03
Head (ft)	0.78
Area (sf)	3.00
Height (ft)	0.80
Length (ft)	6.01

25-yr Rectangular Weir - Qmax (cfs): 33.95

2-yr H (ft)	2.23
2-yr A (sf)	2.34
2-yr Q (cfs)	18.85
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
2-yr A (sf)	2.34
2-yr Q (cfs)	20.02
10-yr H (ft)	2.38
10-yr A (sf)	3.00
10-yr Q (cfs)	22.30

Spillway Rectangular Weir (storage elev.): 983.39

2-yr H (ft)	3.14
2-yr A (sf)	2.34
2-yr Q (cfs)	20.02
10-yr H (ft)	2.38
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	Total Area	Conc/Build Area	Asphalt Area	Gross Area	Values	Sheet	Shallow	Storm Sewer
Drainage Area	385,748	32,311	84,822	288,615	Length (ft)	100.00	1200.00	0.00
					"n"	0.300	0.100	0.00
					Slope	0.030	0.040	Total Tc
					Tc (min)	4.12	10.00	14.12

COMPOSITE C VALUES

Drainage Area	Conc/Build C's	Asphalt C's	Gross C's	Composite C	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	0.46	0.56	8.86	14	9.19	47.61

PROPOSED CONDITION

AREAS	Total Area	Conc/Build Area	Asphalt Area	Gross Area	Values	Total Tc (min)
Drainage Area	385,748	92,066	186,921	106,761	Length (ft)	8.33
					"n"	0.300
					Slope	0.030
					Tc (min)	4.12

COMPOSITE C VALUES

Drainage Area	Conc/Build C's	Asphalt C's	Gross C's	Composite C	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	30.92
10-year event	1	0.83	0.81	0.35	0.49	8.86	8	7.88	46.77
25-year event	1	0.88	0.86	0.39	0.53	8.86	8	8.82	57.40
100-year event	1	0.97	0.95	0.46	0.62	8.86	8	10.71	77.69

VOLUME CALCULATIONS

1st try 2nd try 3rd try 4th try

2-year event

Assumed ID (min) = 30.00

Calculated Storage Volume (SD) = $60CP(a/(D+b)c)APID-300A(D+C)$ = 14,999

Required Storage (SR) = $SD(Precipitation\ 3\ hr\ Storm/Precipitation\ ID\ Storm)$ = 25,806

10-year event

Assumed ID (min) = 30.25

Calculated Storage Volume (SD) = $60CP(a/(D+b)c)APID-300A(D+C)$ = 23,892

Required Storage (SR) = $SD(Precipitation\ 3\ hr\ Storm/Precipitation\ ID\ Storm)$ = 45,005

25-year event

Assumed ID (min) = 31.82

Calculated Storage Volume (SD) = $60CP(a/(D+b)c)APID-300A(D+C)$ = 30,116

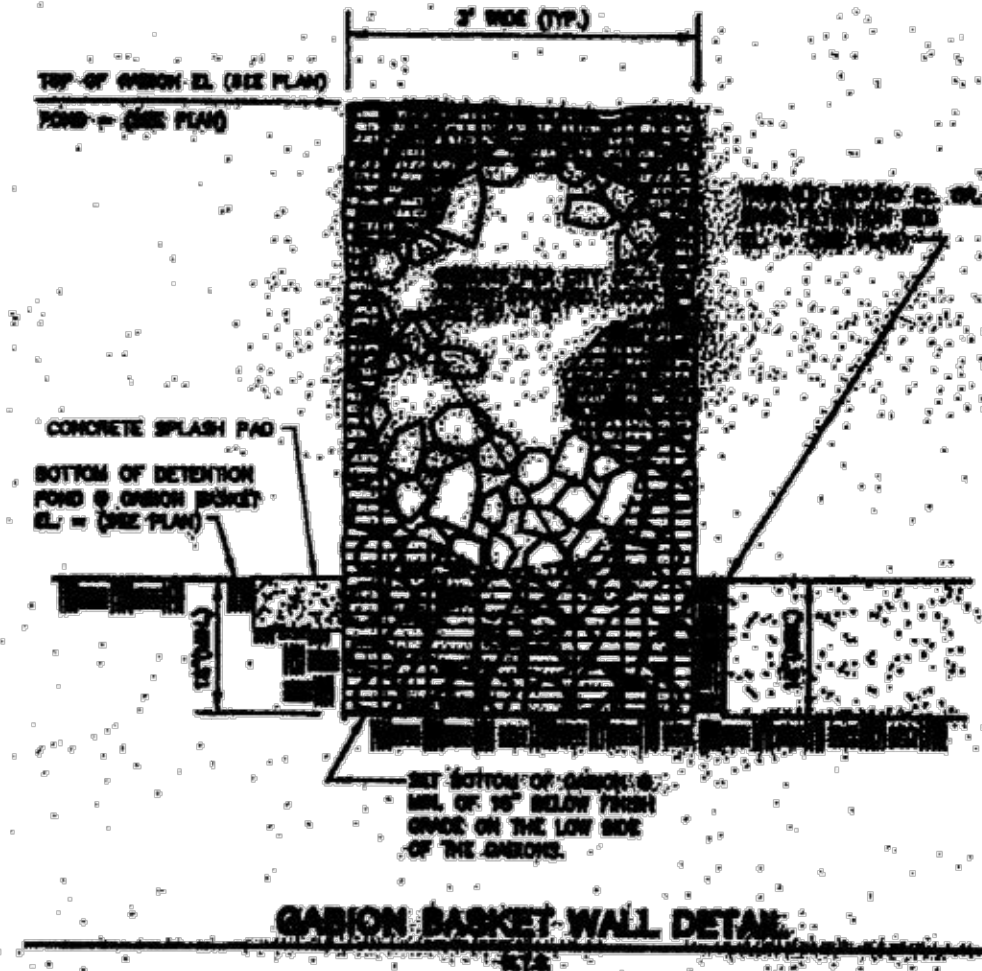
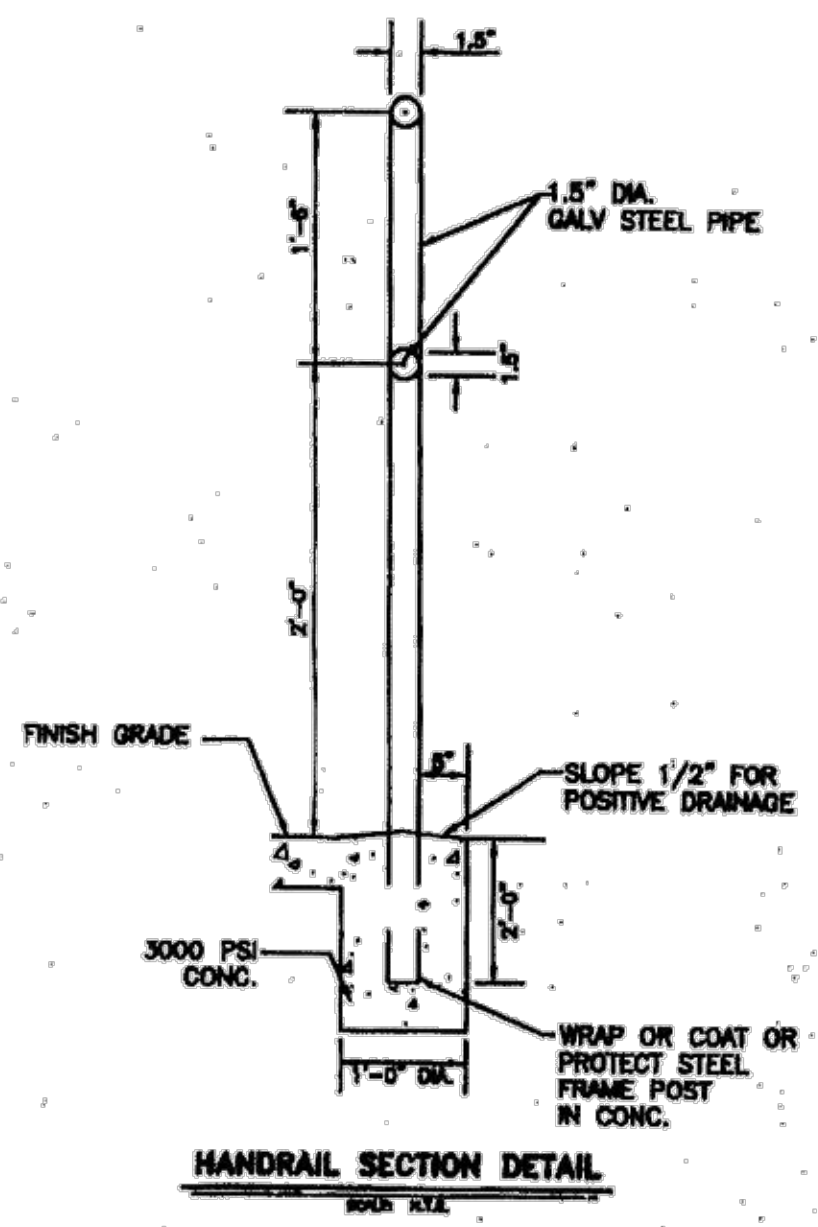
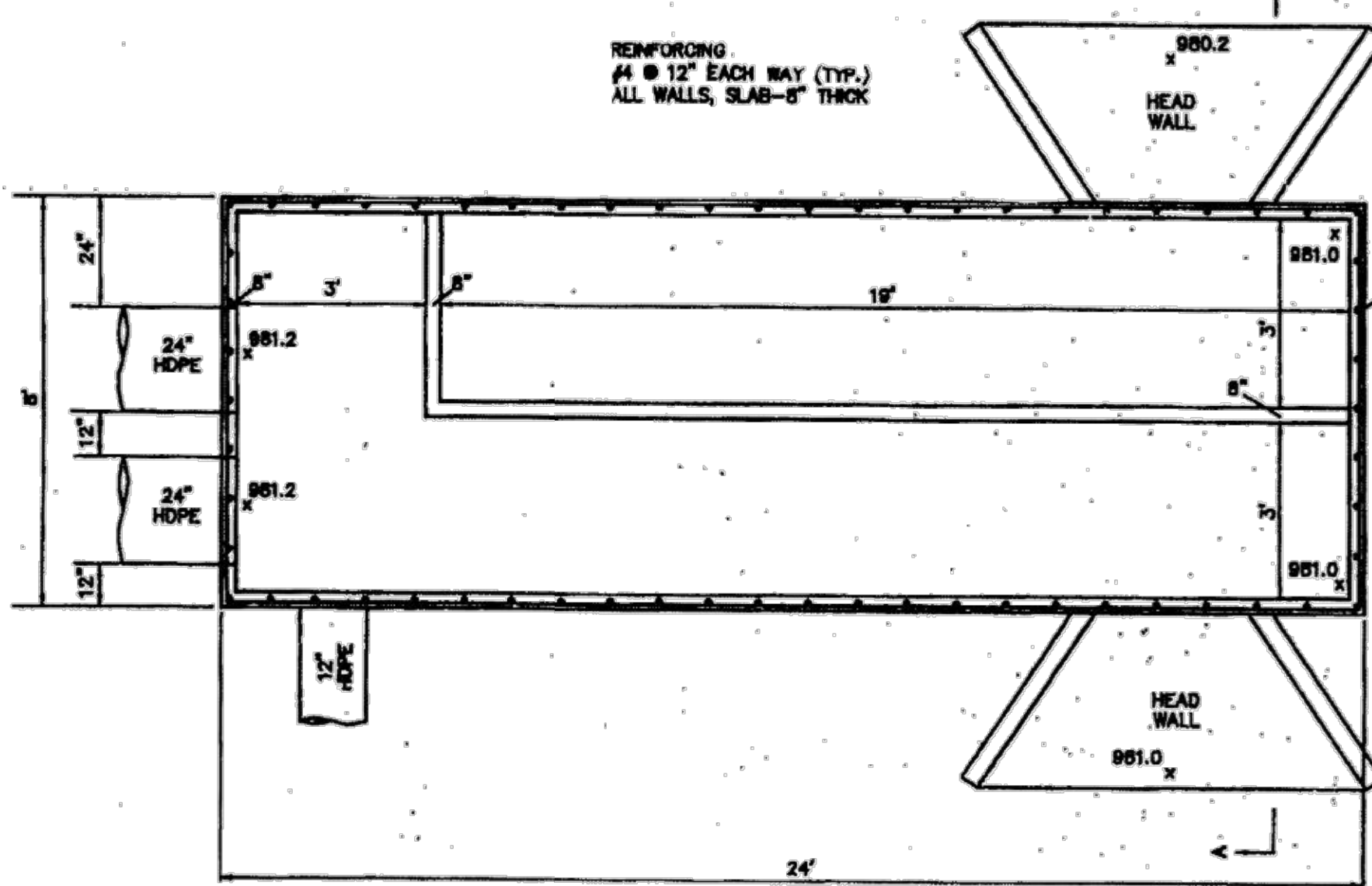
Required Storage (SR) = $SD(Precipitation\ 3\ hr\ Storm/Precipitation\ ID\ Storm)$ = 67,363

100-year event

Assumed ID (min) = 32.24

Calculated Storage Volume (SD) = $60CP(a/(D+b)c)APID-300A(D+C)$ = 40,864

Required Storage (SR) = $SD(Precipitation\ 3\ hr\ Storm/Precipitation\ ID\ Storm)$ = 79,495



FOR SEPARATION AND FINISHING FLOOR

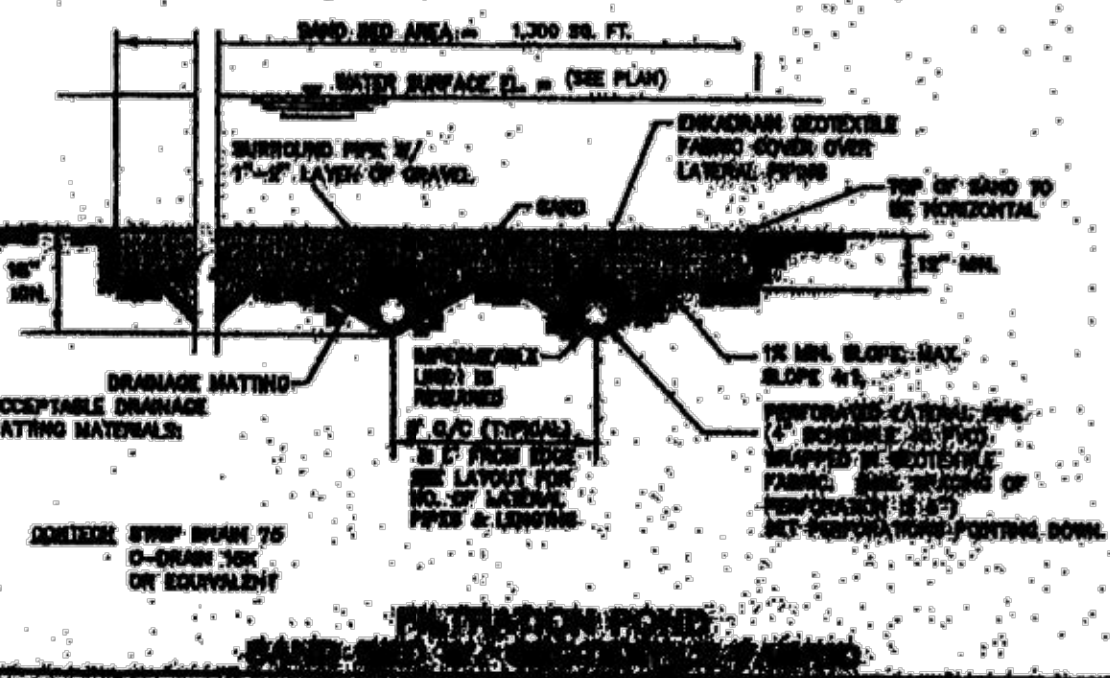
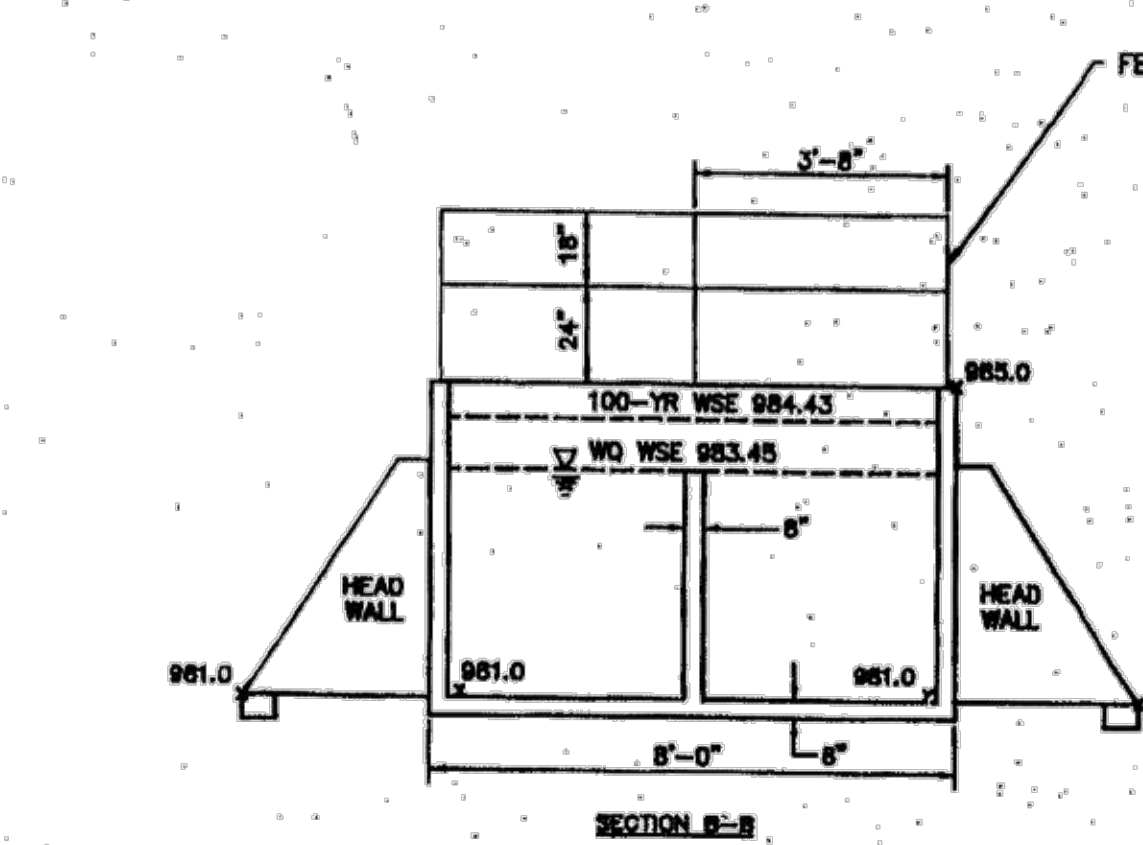
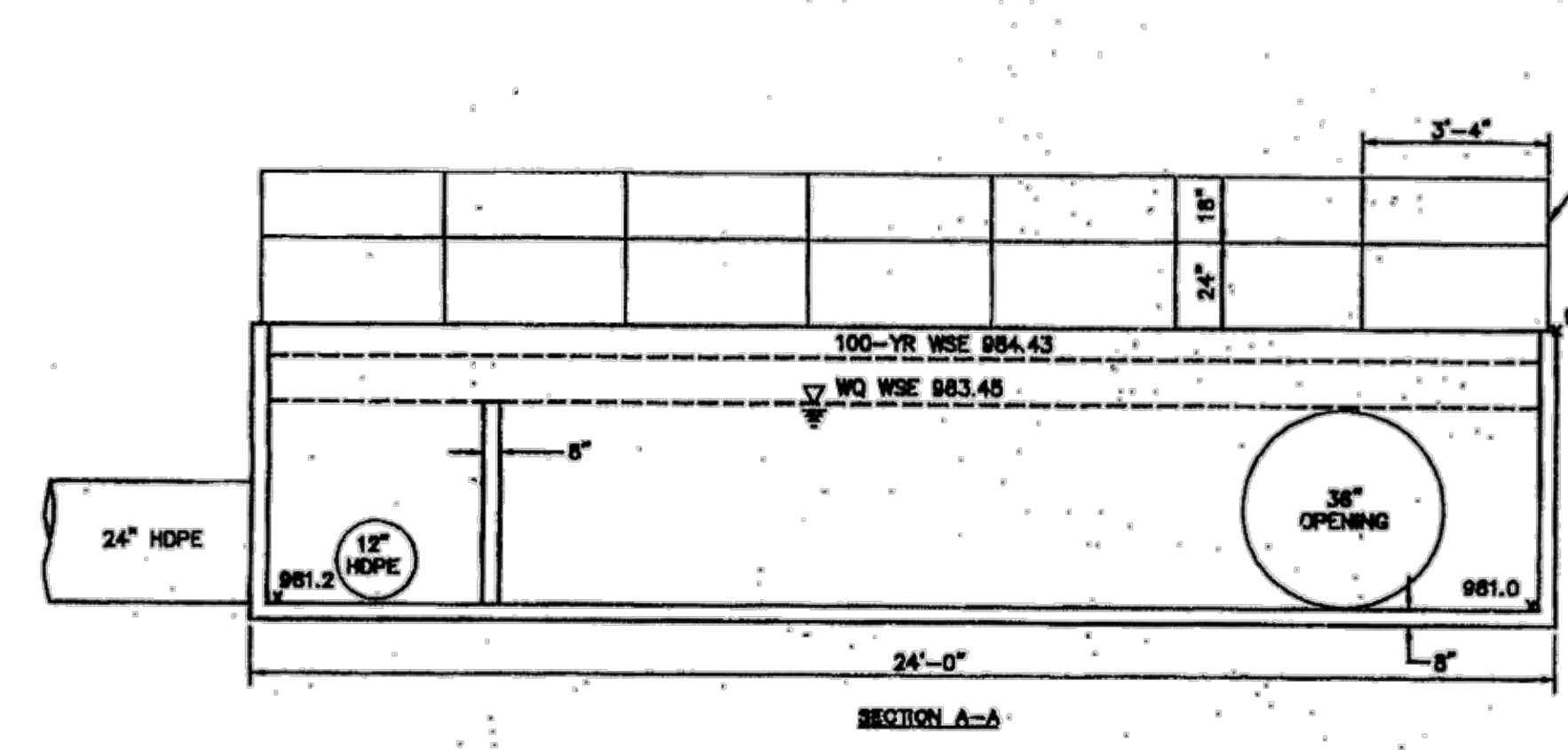
IMPERMEABLE LINER MAY BE EITHER CLAY, CONCRETE OR GEOTEXTILE. IF GEOTEXTILE IS USED, GEOTEXTILE MANUFACTURER'S PAPER SHALL BE PLACED ON THE TOP AND BOTTOM OF THE GEOTEXTILE FOR FINISHING PROTECTION. CLAY LINERS SHALL MEET THE FOLLOWING SPECIFICATIONS:

PROPERTY	TEST METHOD	UNIT	MINIMUM
PERMEABILITY	ASTM D-5514	cm/sec	1 x 10 ⁻¹⁰
MINIMUM THICKNESS	ASTM D-5514	in.	MINIMUM 1/2 IN.

TABLE 1-7
CLAY LINER SPECIFICATIONS

TABLE 1-8
DRAINAGE MATTING SPECIFICATIONS

PROPERTY	TEST METHOD	UNIT	MINIMUM
MATERIAL	ASTM D-5514	cm/sec	1 x 10 ⁻¹⁰
UNIT WEIGHT	ASTM D-5514	pcf	MINIMUM 120
FLOW RATE (FABRIC)	ASTM D-5514	gpm/ft ²	MINIMUM 10
POROSITY	ASTM D-5514	%	MINIMUM 90
TENSILE STRENGTH (FABRIC)	ASTM D-5514	lb	MINIMUM 100
PUNCTURE STRENGTH	ASTM D-5514	lb	MINIMUM 100
TEAR STRENGTH	ASTM D-5514	lb	MINIMUM 100
TEAR RATE	ASTM D-5514	in./min	MINIMUM 14



DIVERSION STRUCTURE

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PLANNING DEPT.

AUG 07 2009

CITY OF CEDAR RAPIDS 00030

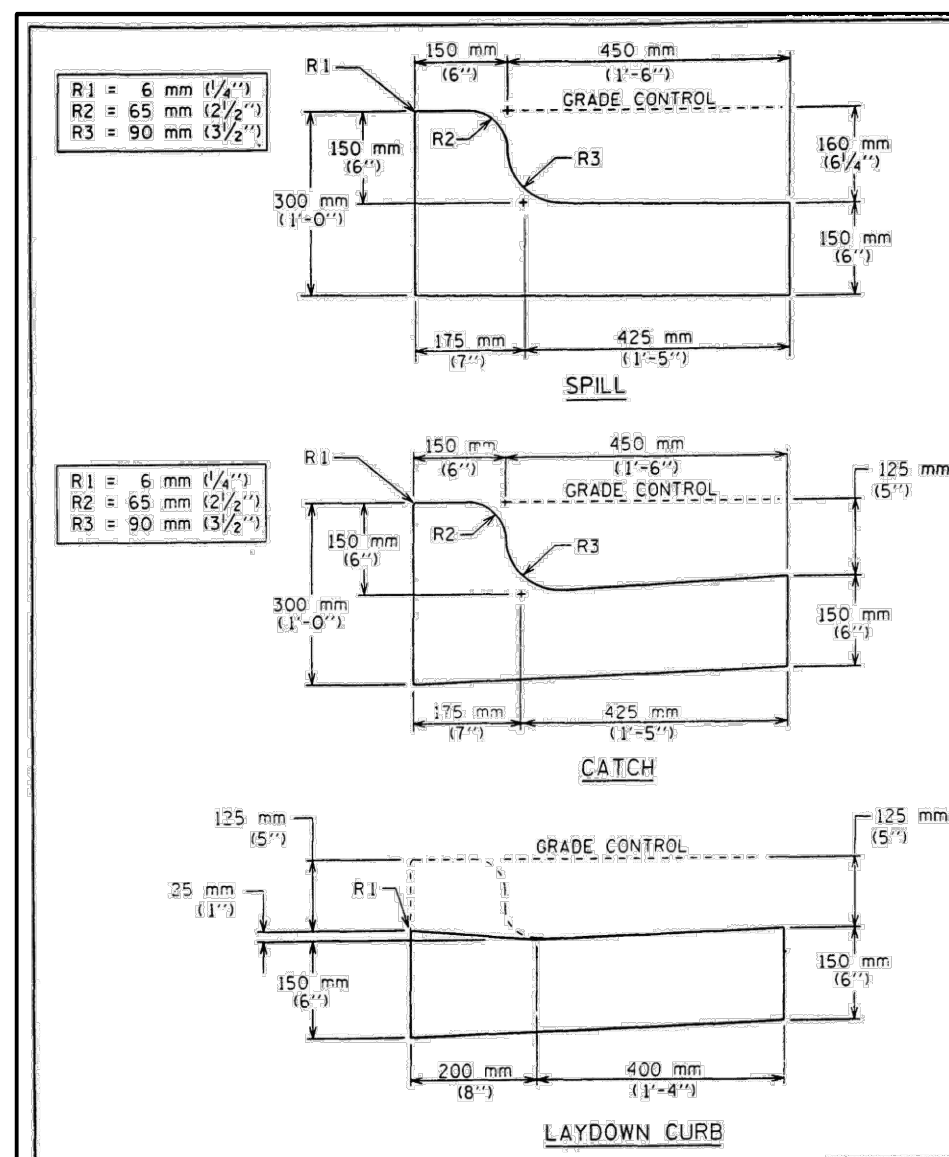


R.L. KOSTER
1-28-09

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

As-Built Set

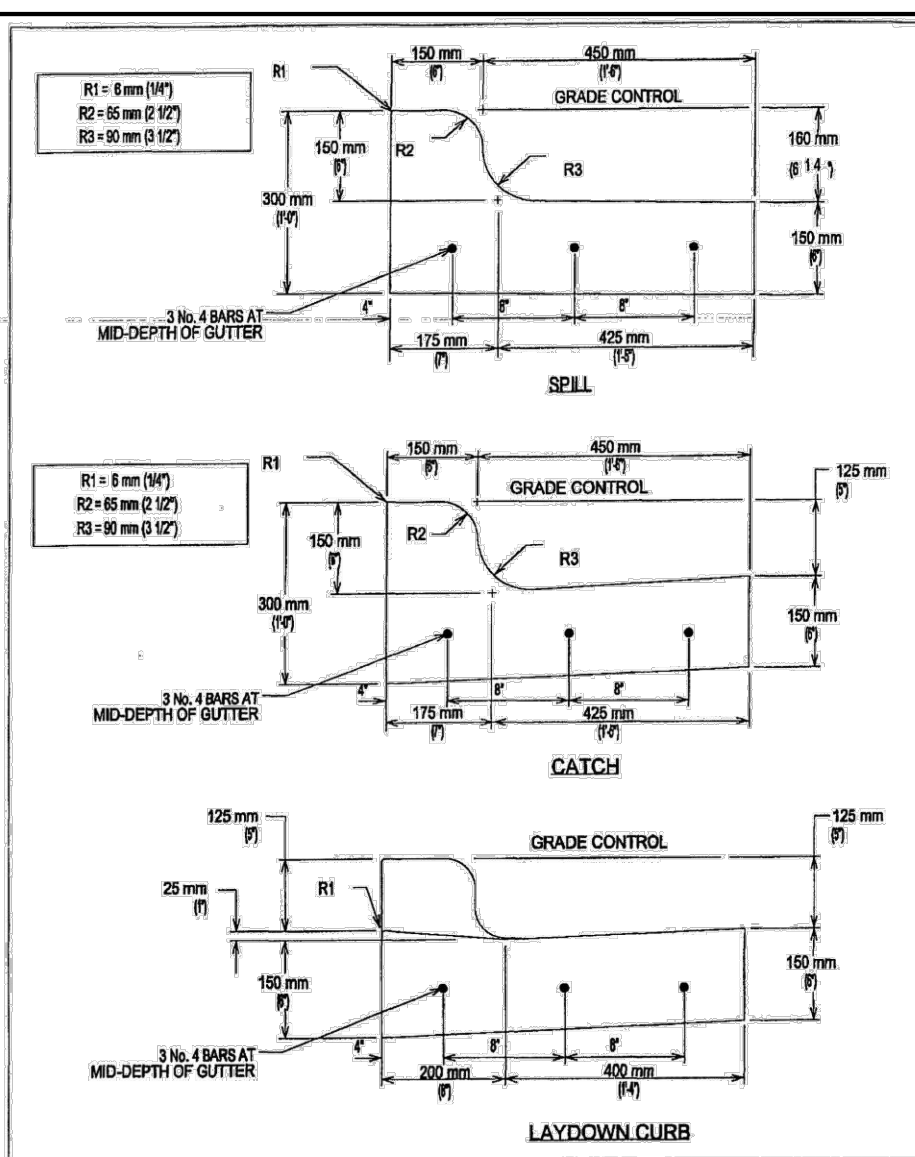
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Leo Rivera 9/29/19
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THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

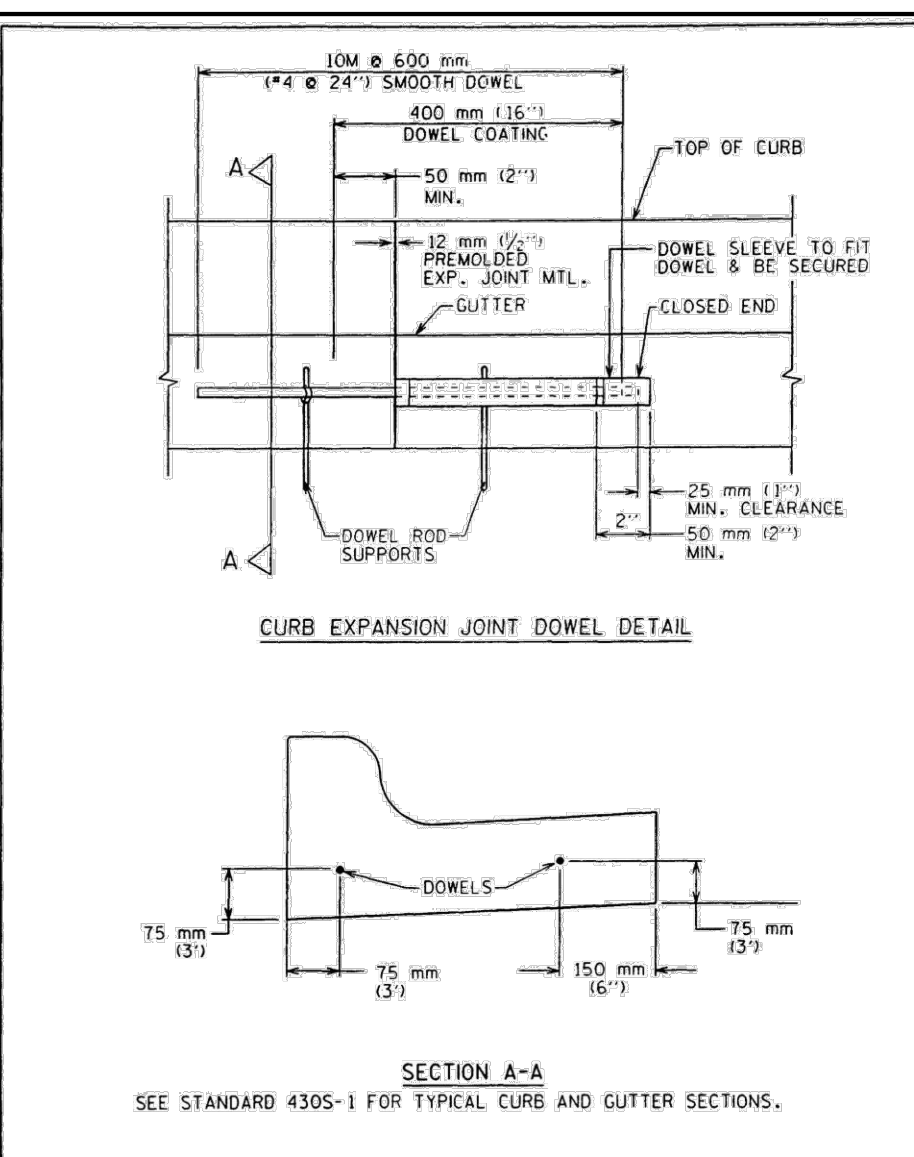
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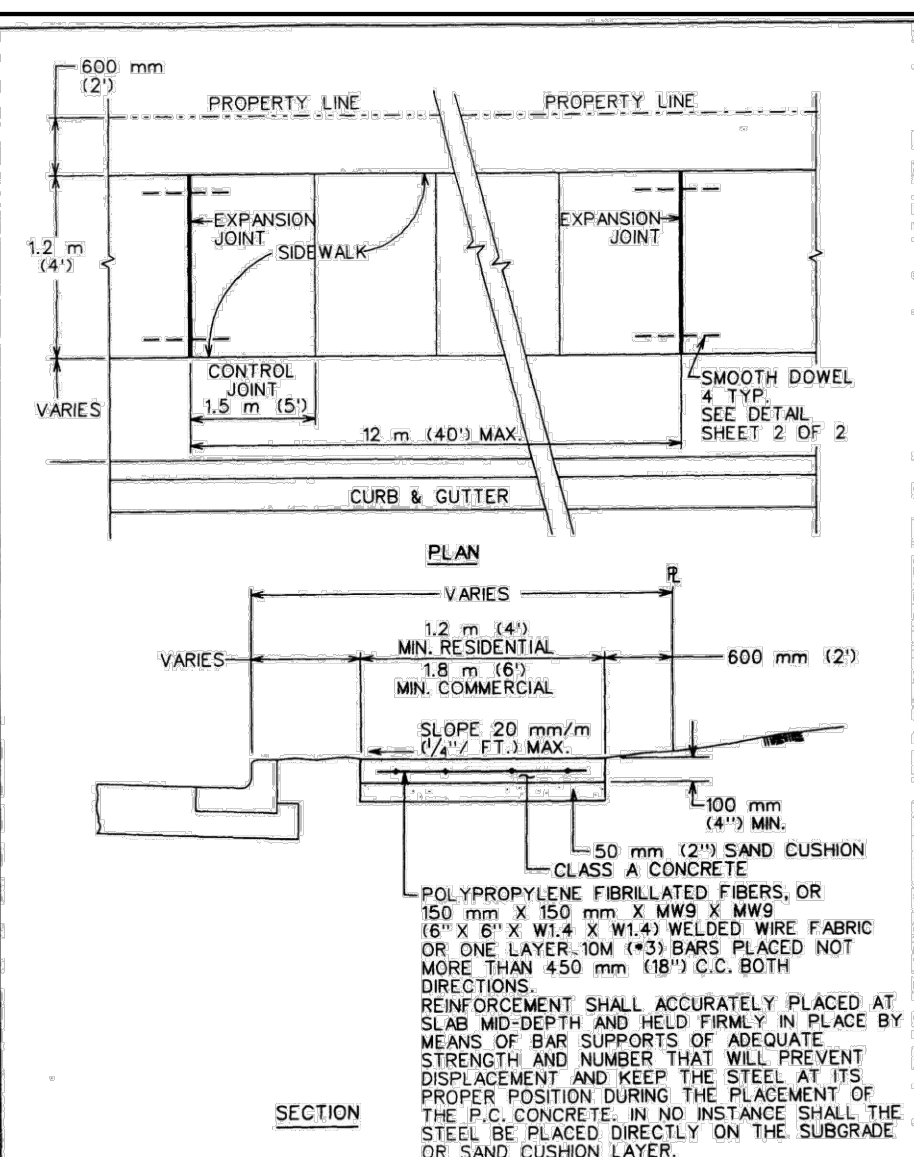
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430S-2



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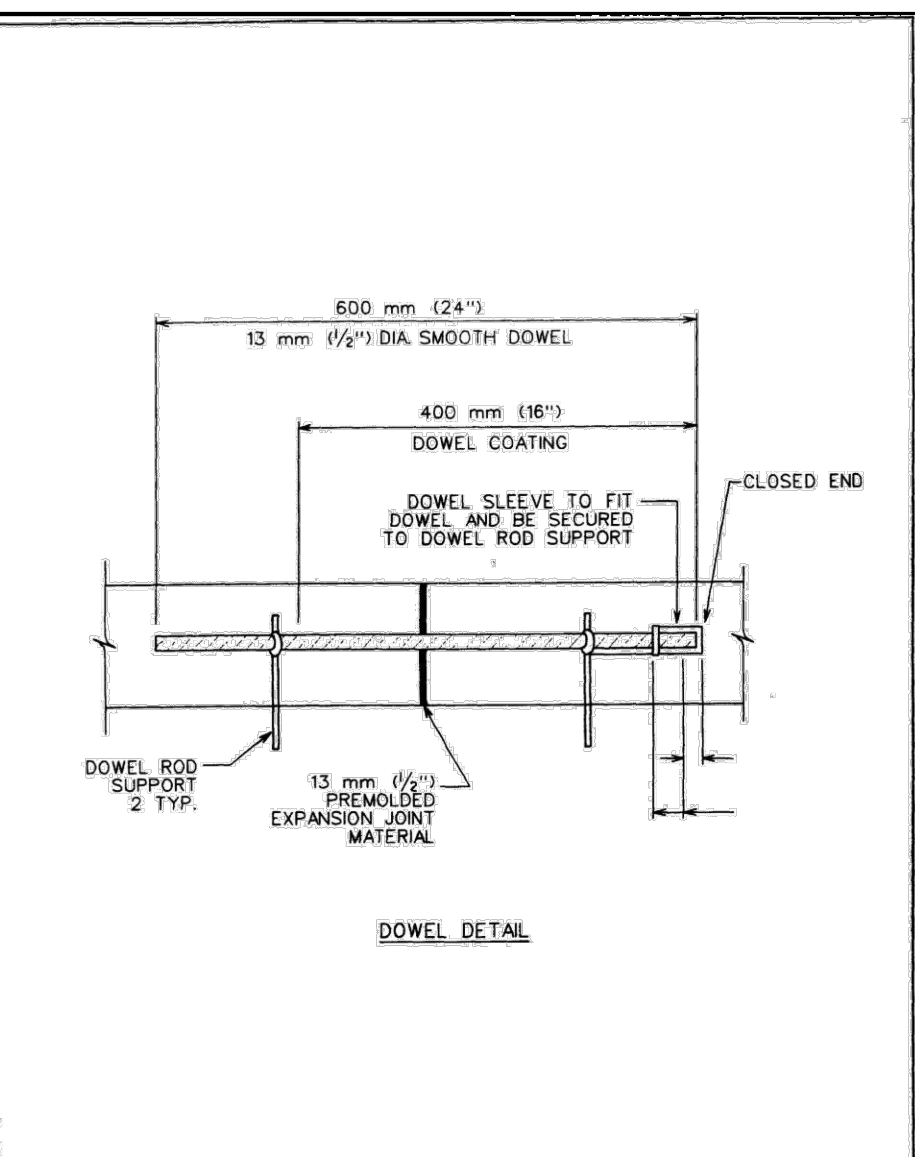
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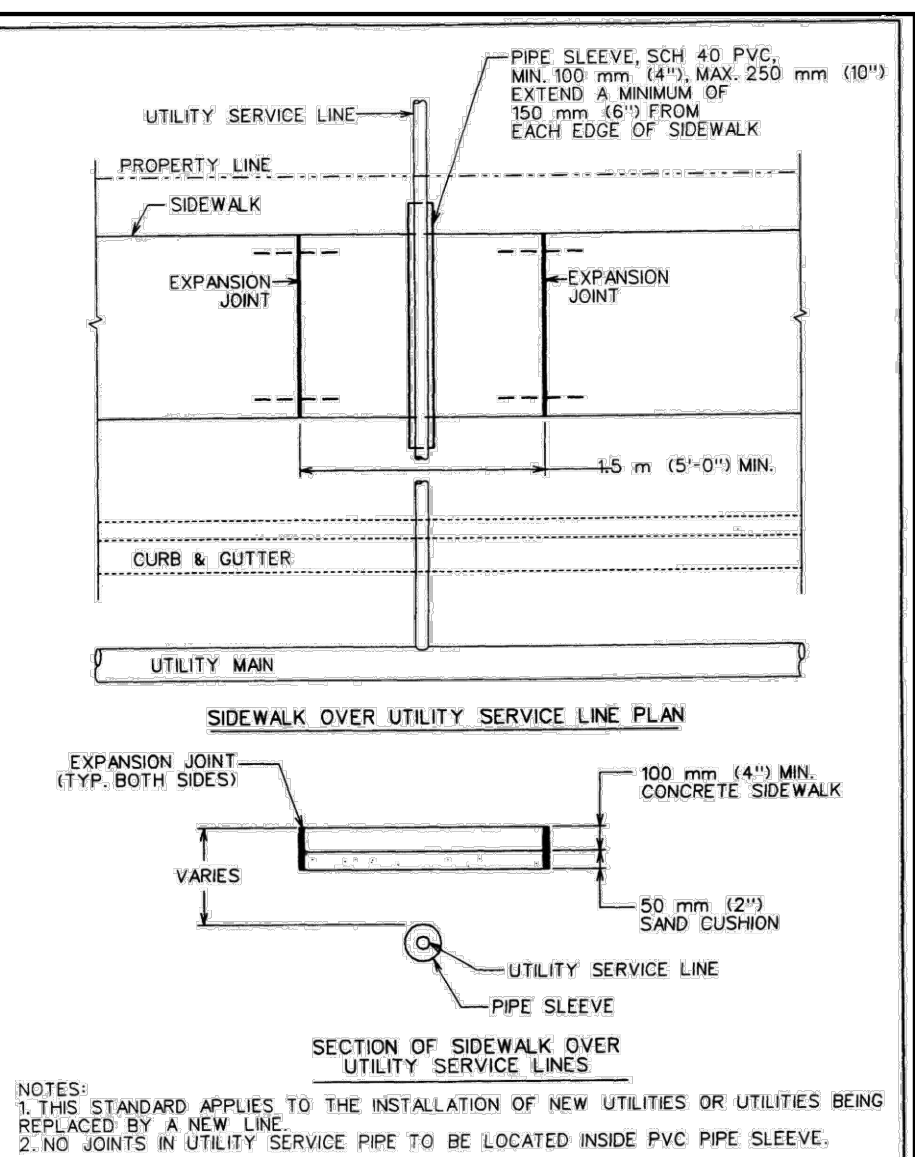
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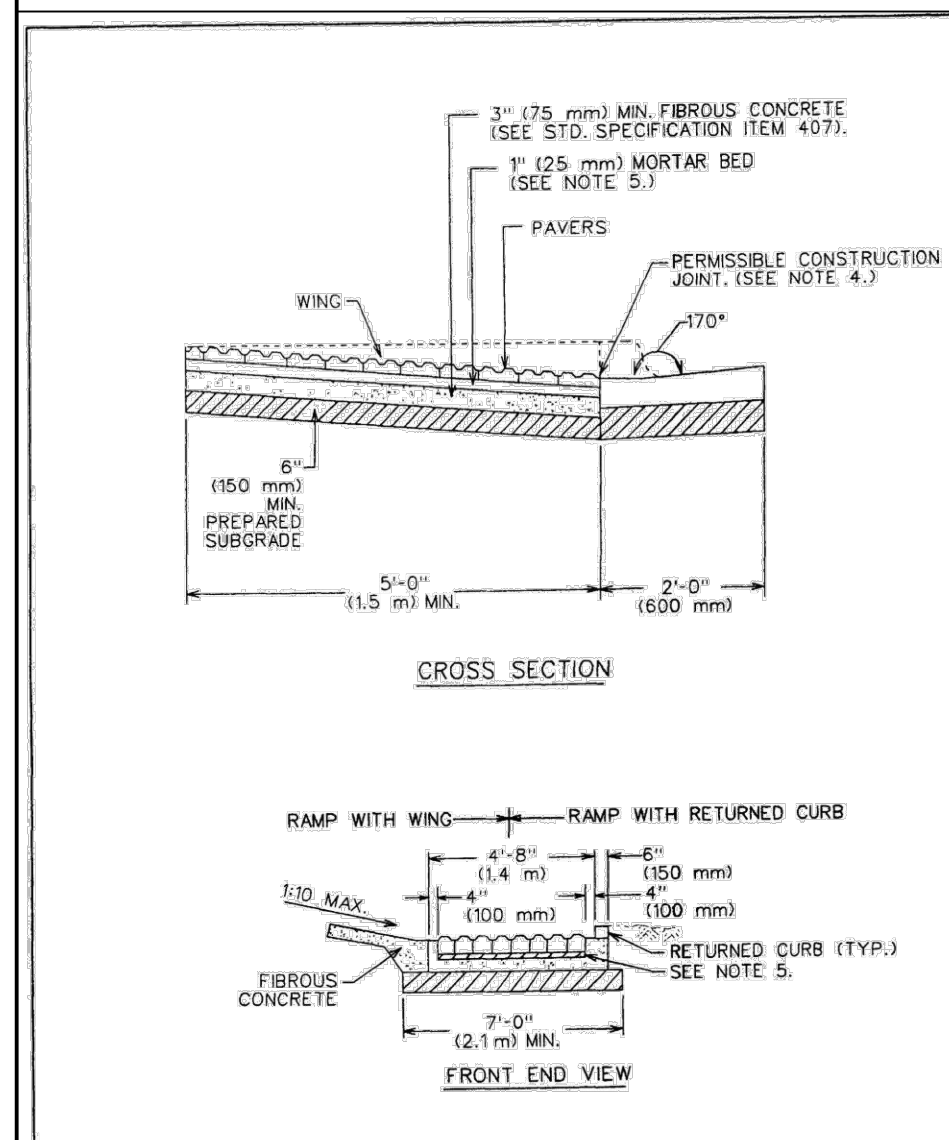
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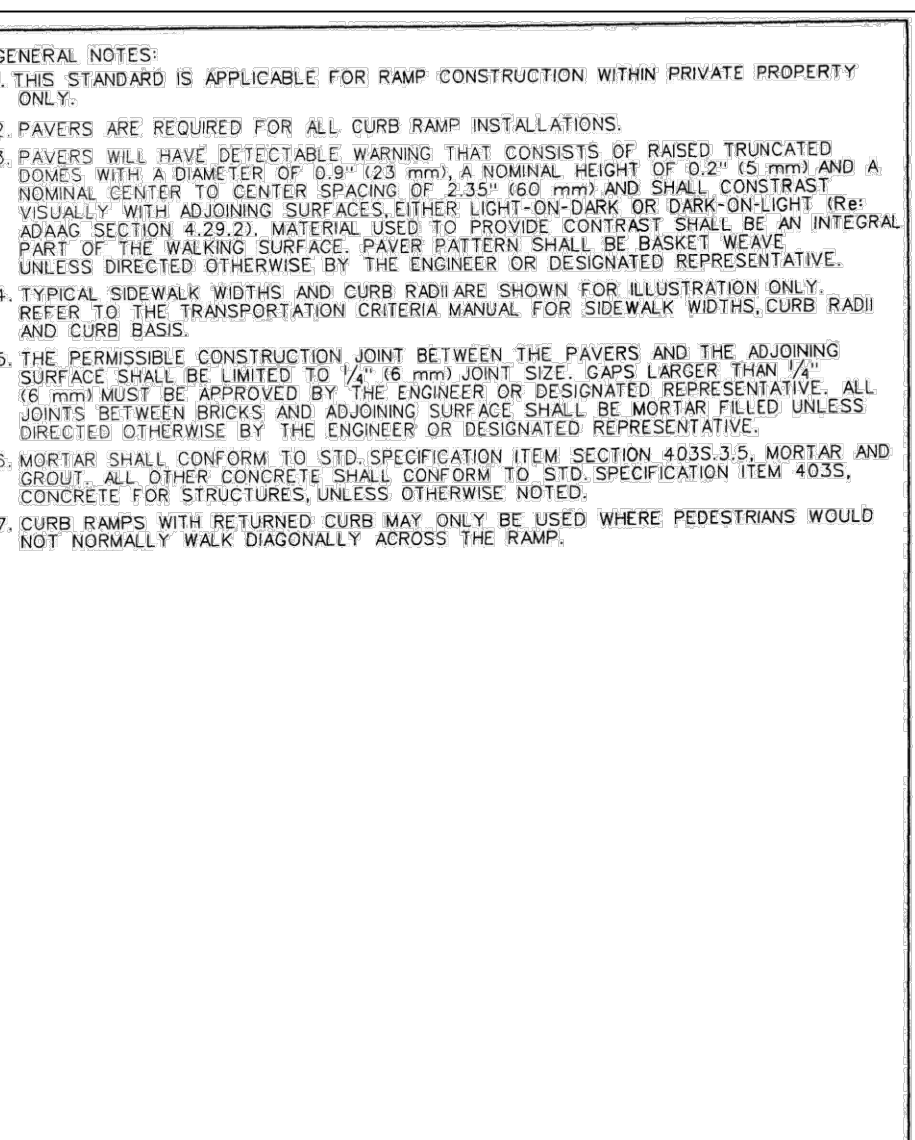
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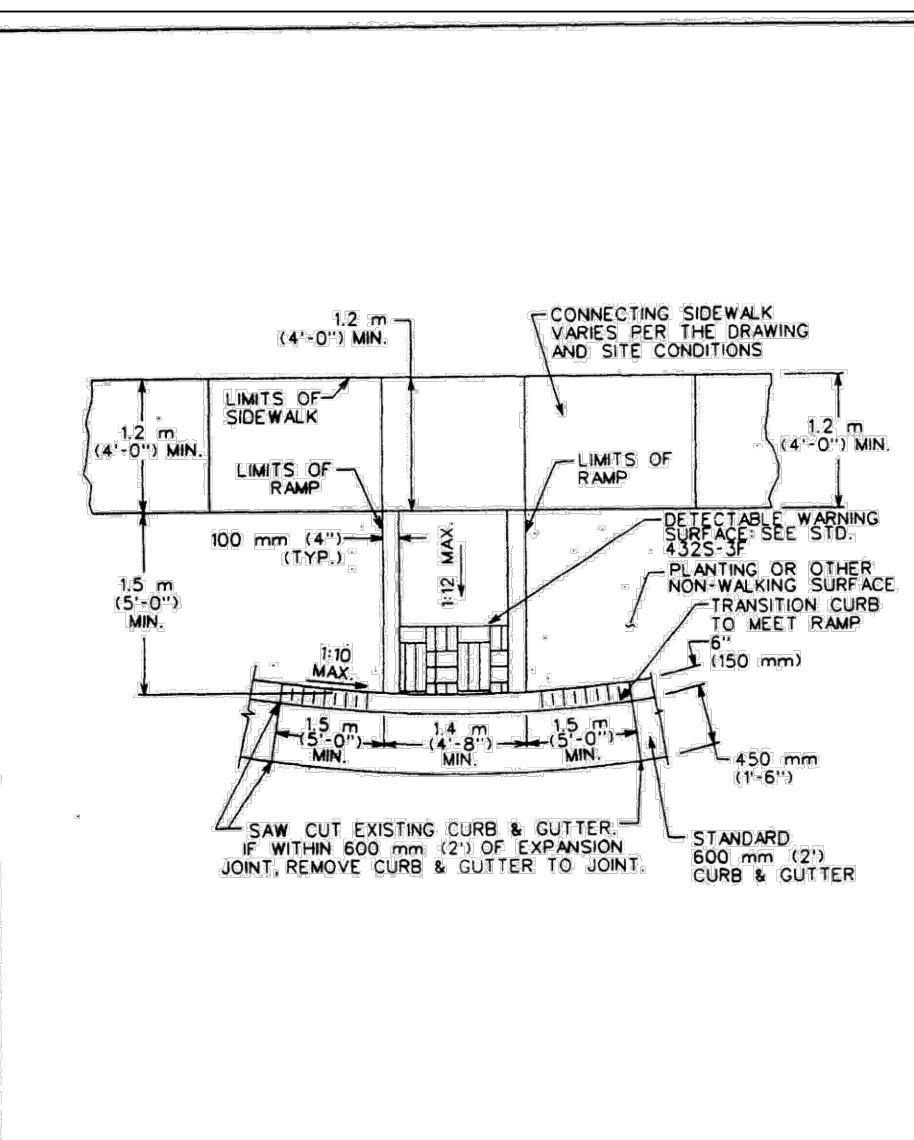
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432S-2B



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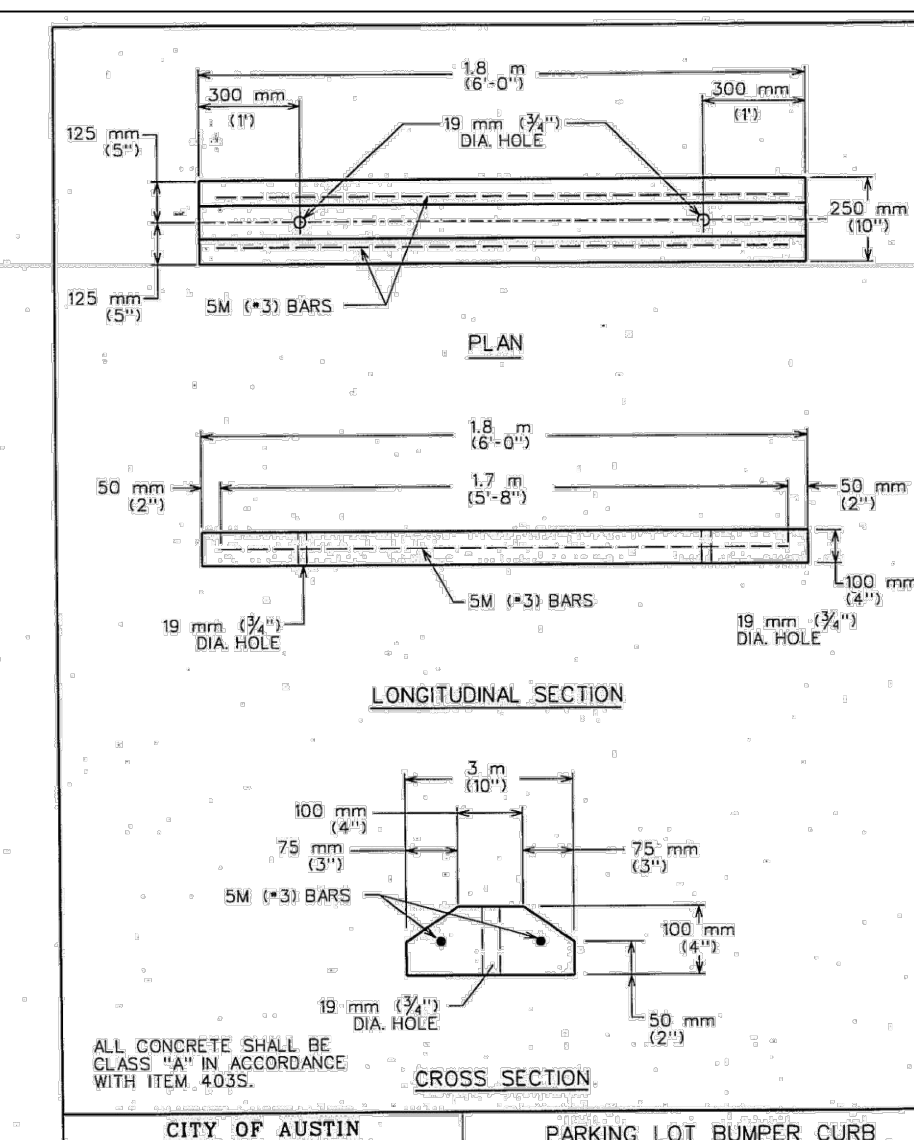
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STANDARD NO.
439S-1

ADA/TAS DESIGN - GENERAL

THE CONTRACTOR IS FULLY RESPONSIBLE FOR CONSTRUCTION OF SIDEWALKS, LANDINGS, PORCHES, RAMPS & PARKING SPACES THAT MEET ADA/TAS REQUIREMENTS. THE CONTRACTOR SHALL HAVE FULL KNOWLEDGE OF THE DETAILS ON THESE PLANS AND OF ADA/TAS REGULATIONS. SHOULD THE CONTRACTOR FIND AN ELEVATION OR CONDITION THAT IS DIFFERENT THAN SHOWN ON THE PLANS, IT IS THE CONTRACTOR'S FINAL RESPONSIBILITY TO CONTACT THE CIVIL DESIGNER AND WORK OUT A DESIGN THAT MEETS ADA & TAS, PRIOR TO CONSTRUCTION, NOT AFTER THE WORK IS COMPLETED.

ADA SIDEWALK RAMP SLOPES

DETERMINE THE LENGTH OF A RAMP BY CHECKING THE ELEVATIONS AT THE TOP AND BOTTOM ELEVATION OF THE RAMPS. THE DESIGN SHALL BE FOR A RUNNING SLOPE OF 8.3%.

ADA CURB RAMP SLOPES

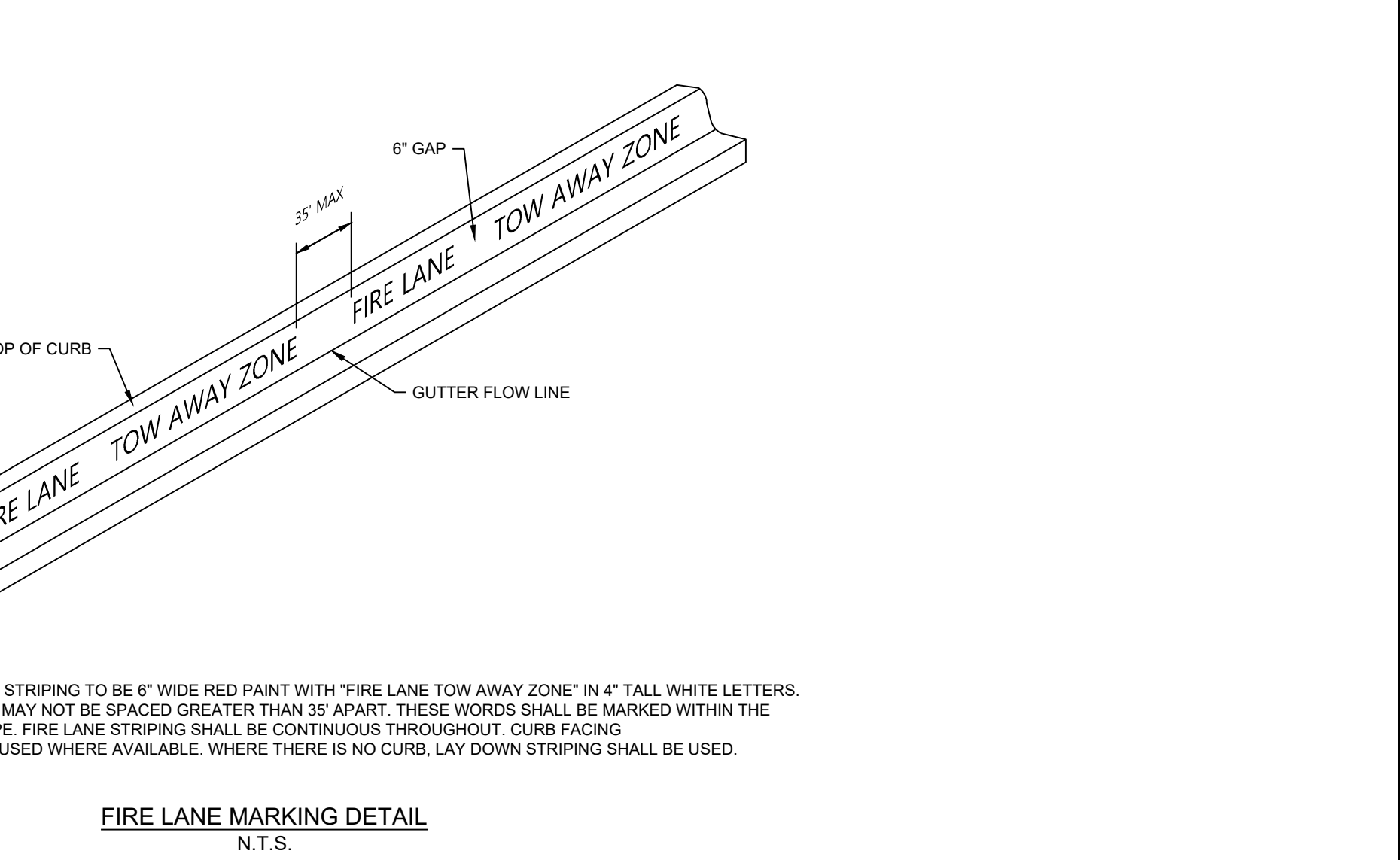
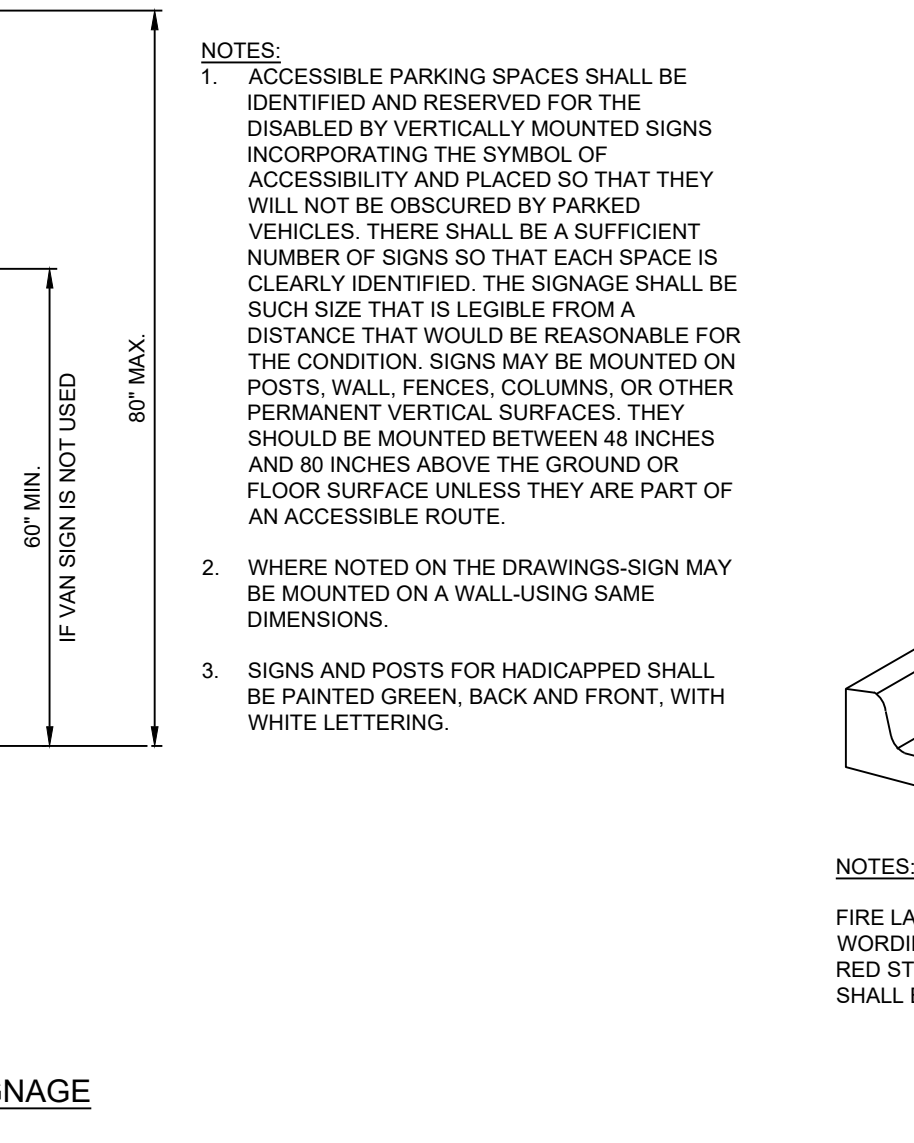
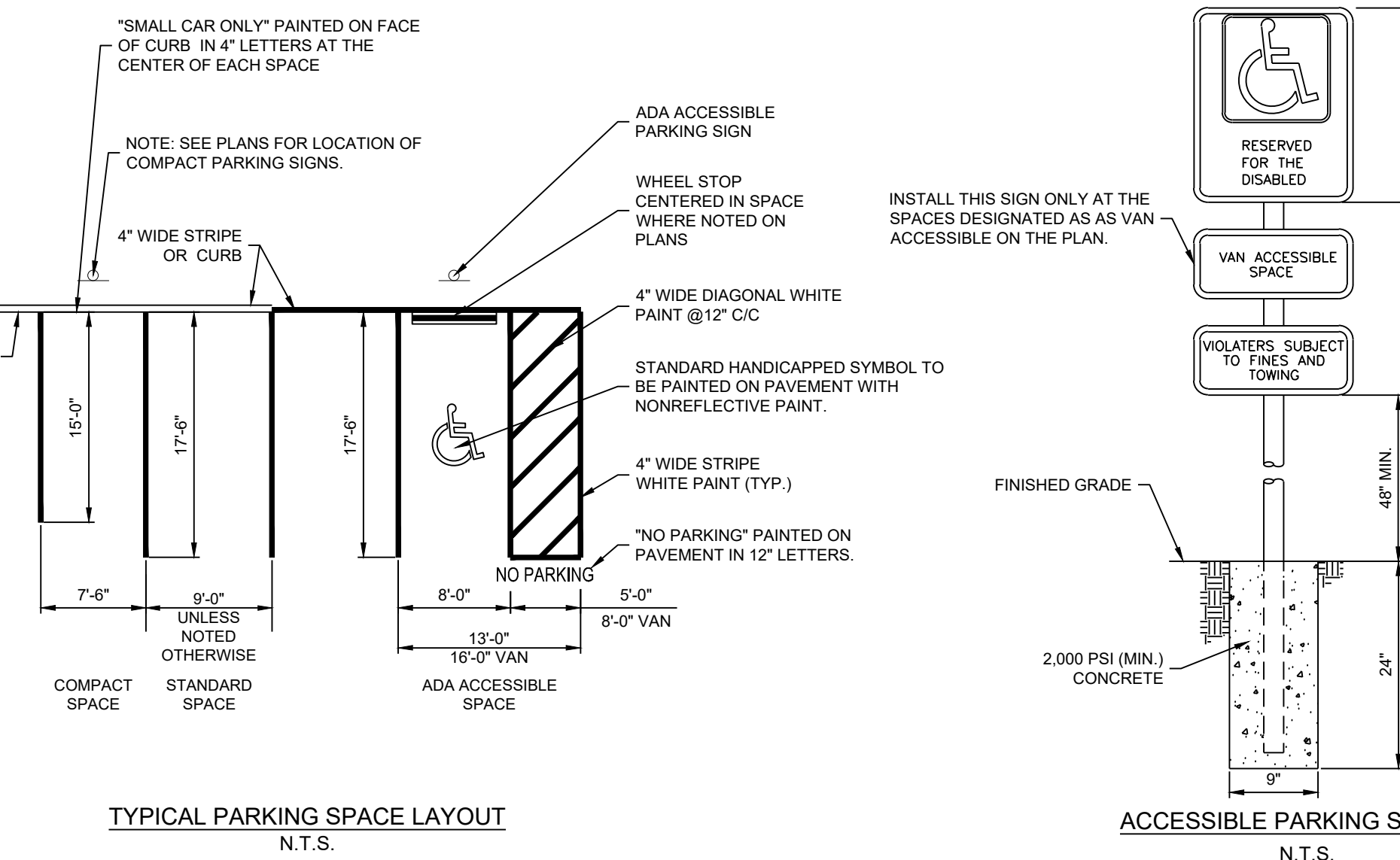
THE DESIGN SHALL BE FOR A RAMP SLOPE OF 8.3%. IT IS IMPOSSIBLE TO HAVE A 6' LONG RAMP WITHOUT THE TOP AND BOTTOM OF RAMP BEING NO MORE THAN 5' DIFFERENCE IN ELEVATION. DETERMINE THE LENGTH BY CHECKING THE TOP AND BOTTOM ELEVATIONS OF THE RAMP.

ADA HANDICAP PARKING SPACES

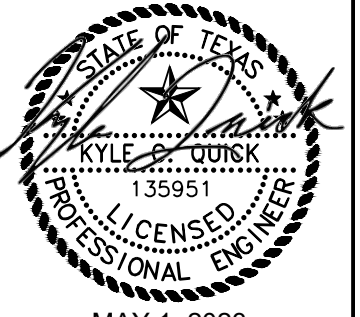
NO SLOPE WITHIN A PARKING SPACE OR A STRIPED AISLE SHALL EXCEED 2% IN EITHER DIRECTION.

ADA CROSSWALKS, SIDEWALKS, AND ACCESSIBLE ROUTES

NO CROSS SLOPE SHALL EXCEED 2%. NO RUNNING SLOPE SHALL EXCEED 5%.



MIGL ENGINEERING AND CONSULTING
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Austin, TX 78749 | 512 750 0440
Texas Registered Engineering Firm F-16967



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STANDARD NO.
432S-2B

LANDSCAPE NOTES:

- COMPLETE ALL LANDSCAPE PLANTING AND RELATED EARTHWORK INCLUDING ALL PRODUCTS, EQUIPMENT AND LABOR, FOR THE LANDSCAPE AREAS SHOWN ON THE DRAWING AND DESCRIBED IN THE SPECIFICATIONS.
- ALL QUESTIONS SHOULD BE REFERRED TO THE PROJECT LANDSCAPE ARCHITECT.
- INFORMATION PROVIDED ON THIS PLAN IS GENERAL IN NATURE. DIMENSIONS, LOCATIONS, AND AREAS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO BIDDING & INSTALLATION.
- QUANTITIES SHOWN FOR PLANT MATERIALS ARE APPROXIMATE. ACTUAL INSTALLED QUANTITIES OF PLANT MATERIALS MAY VARY FROM THE PLAN AND SHOULD BE FIELD DETERMINED ACCORDING TO THE GIVEN SPACING AND FIELD CONDITIONS. DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE PLAN WHICH LIMIT THE CONTRACTOR SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- BY BIDDING, THE CONTRACTOR ACKNOWLEDGES THAT HE/SHE HAS SATISFIED HIMSELF/HERSELF AS TO THE NATURE AND LOCATION OF THE WORK AND TO THE QUALITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES INSOFAR AS THIS DATA IS REASONABLY ASCERTAINABLE FROM AN INSPECTION OF THE SITE. ANY FAILURE BY THE CONTRACTOR TO ACQUAINT HIMSELF/ HERSELF WITH THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM/HER FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTY OR COST OF SUCCESSFULLY PERFORMING THE WORK AS DESCRIBED.
- INSTALLATION OF ALL LANDSCAPING MUST BE COORDINATED WITH THE INSTALLATION OF RELATED IRRIGATION, SITE WORK, AND GRADING.
- UNLESS SPECIFICALLY NOTED, INSTALL ALL MASSED PLANTING UTILIZING EQUILATERAL TRIANGULAR SPACING.
- EVENLY APPLY 3" OF MULCH TO ALL CONTINUOUS PLANTING BEDS. MULCH TO BE TRANSPORTED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR TO ENSURE ALL SUBSURFACE IRRIGATION IS COMPLETELY COVERED BY MULCH.
- SUBSTITUTIONS OF PLANT SPECIES, SIZES, OR OTHER SPECIFIED MATERIALS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT.
- PLANT MATERIAL AND LAYOUT MUST BE APPROVED BY THE PROJECT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL IDENTIFICATION TAGS PROVIDED BY GROWERS AND PLACED ON TREES AND SHRUBS ARE TO REMAIN ON THE PLANTS THROUGH THE PUNCH-LIST INSPECTION. TAGS ARE TO BE REMOVED PRIOR TO FINAL ACCEPTANCE, OR UPON REQUEST OF THE PROJECT LANDSCAPE ARCHITECT.
- SEED MIX/SOLID SOD WILL BE APPLIED TO ALL CONSTRUCTION-DAMAGED GROUND SURFACES NOT OTHERWISE PLANTED. CONTRACTOR SHALL REVIEW RELATED CONSTRUCTION DRAWINGS FOR LIMITS OF CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR COORDINATING WITH OTHER SITE CONTRACTORS TO DETERMINE ACTUAL AREAS OF SEEDING REQUIRED, INCLUDING AREAS DISTURBED BY UTILITY EXTENSIONS. **CONTRACTOR TO INSTALL EROSION CONTROL BLANKETS ON ALL AREAS WITH SLOPE GREATER THAN 4:1.**
- THE LANDSCAPE CONTRACTOR SHALL EXCAVATE FULLY PREPARED PLANT BEDS AS REQUIRED TO ACCOMMODATE A FULL 8" OF PREPARED SOIL AND 3" MULCH LAYER. CLEAN, NATIVE TOPSOIL REMOVED FROM THESE BEDS MAY BE SPREAD ON NEARBY AREAS TO BE SODDED OR SEEDED. STONES LARGER THAN 1" DIAMETER SHALL BE REMOVED AND DISPOSED OF OFF SITE. FOLLOWING EXCAVATION, PLACE PREPARED SOIL IN THESE PLANT BEDS. PREPARED SOIL SHALL CONSIST OF 5" IMPORTED "CHOCOLATE" LOAM TOPSOIL AND 3" ORGANIC COMPOST SOIL CONDITIONER (SUCH AS "LIVING EARTH TECHNOLOGIES", "BACK-TO-EARTH" OR OTHER APPROVED MANUFACTURER), THOROUGHLY BLENDED TOGETHER TO 20% MINIMUM ORGANIC CONTENT. THIS MIX SHALL ALSO BE USED TO BACKFILL PLANTING PITS OF ALL TREES. **CONTRACTOR SHALL SUBMIT PLANTING SOIL MATERIAL TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.**
- ALL PLANTING BEDS INDICATED WILL BE IRRIGATED WITH UNDERGROUND AUTOMATIC IRRIGATION. IRRIGATION CONTRACTOR IS TO BE A STATE OF TEXAS LICENSED IRRIGATOR, AND SHALL FOLLOW ALL TCEQ CODES AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS AND SPECIFICATIONS FOR IRRIGATION SYSTEM INCLUDING PIPE SIZES AND LOCATIONS.
- ALL SEEDING AREAS DISTURBED BY CONSTRUCTION SHALL BE TEMPORARILY IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.
- REGULAR MAINTENANCE IS REQUIRED OF ALL LANDSCAPE AREAS AND PLANT MATERIALS IN A VIGOROUS AND HEALTHY CONDITION, FREE FROM DISEASES, PEST WEEDS, AND LITTER. THIS MAINTENANCE SHALL INCLUDE WEEDING, WATERING, FERTILIZATION, PRUNING, MOWING, EDGING, MULCHING OR OTHER NEEDED MAINTENANCE, IN ACCORDANCE WITH GENERALLY ACCEPTED HORTICULTURAL PRACTICES UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE PROJECT LANDSCAPE ARCHITECT.
- THE OWNERS OF THE LANDSCAPED PROPERTY, OR THE MANAGER OR AGENT OF THE OWNER, SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE AREAS. SAID AREAS SHALL BE MAINTAINED SO AS TO PRESENT A HEALTHY, NEAT AND ORDERLY APPERARANCE AT ALL TIMES AND SHALL BE KEPT FREE OF REFUSE AND DEBRIS. ALL PLANTING BEDS SHALL BE PROVIDED WITH A READILY AVAILABLE WATER SUPPLY AND WATERED AS NECESSARY TO ENSURE CONTINUOUS HEALTHY GROWTH AND DEVELOPMENT. MAINTENANCE SHALL INCLUDE THE REPLACEMENT OF ALL DEAD PLANT MATERIAL IF THAT MATERIAL WAS USED TO MEET THE REQUIREMENTS OF THE ORDINANCE.
- NO TOPSOIL SHALL BE PLACED UNTIL SUBGRADE IS APPROVED BY LANDSCAPE ARCHITECT. CONTRACTOR TO FURNISH AND SPREAD TOPSOIL ON LAWN AREAS TO A DEPTH OF FOUR INCHES. WORK TOPSOIL TO A SMOOTH UNIFORM SURFACE AND COMPACT FIRMLY. FEATHER TOPSOIL INTO UNDISTURBED AREAS CREATING A SMOOTH, EVEN TRANSITION. SPREAD ADDITIONAL TOPSOIL IN UNDISTURBED AREAS TO ELIMINATE WATER PONDING. STONES LARGER THAN 1" DIAMETER SHALL BE REMOVED FROM TURF AREAS AND DISPOSED OF OFF SITE.
- NO CUTTING, FILLING, TRENCHING, ROOT DISTURBANCE, SOIL DISTURBANCE, OR CONSTRUCTION IMPACTS SHALL OCCUR TO THE TRUNK WITHIN THE CRITICAL ROOT ZONE UNLESS DONE BY HAND.
- FROM APRIL 1 TO SEPTEMBER 30, ONLY CONTAINER GROWN TREES MAY BE PLANTED. FROM OCTOBER 1 TO MARCH 31, EITHER CONTAINER GROWN OR BALL AND BURLAPPED TREES MAY BE PLANTED.

LANDSCAPE MAINTENANCE NOTES:

- PROPERTY LANDSCAPING SHALL BE MAINTAINED AT ALL TIMES. THE QUALITY OF THE LANDSCAPE MAINTENANCE SHALL MEET STANDARDS OF PERFORMANCE PROVIDED BY LANDSCAPE COMPANIES IN THE REGION. LANDSCAPE AREAS WILL AT ALL TIMES HAVE A NEAT, CLEAN, HEALTHY, MANICURED APPEARANCE.
- TURF AREAS**
 - MOWING & EDGING OF ALL TURF AREAS SHALL BE PERFORMED AT LEAST ONCE PER WEEK.
 - PERENNIAL GRASS OVERSEEDING SHALL BE SEPARATE & MUST BE APPROVED BY THE OWNER PRIOR TO START. OVERSEEDING SHALL BE SPREAD AT A RATE TO INSURE A LUSH, THICK CONSISTENT WINTER TURF. TRIMMING & EDGING OF TURF AREAS TO BE PERFORMED EACH VISIT.
 - ALL TURF AREAS ARE TO BE FERTILIZED A MINIMUM OF FOUR TIMES PER YEAR W/ A HIGH QUALITY, SLOW RELEASE FERTILIZER FROM A REPUTABLE MANUFACTURER.
 - CONTRACTOR SHALL APPLY APPROPRIATE FUNGICIDES AS NECESSARY & PRE-EMERGENT HERBICIDE TWO TIMES PER YEAR & POST-EMERGENT HERBICIDE AT THE TIME DEEMED MOST EFFICIENT & FAVORABLE BY CONTRACTOR.
 - TURF TO BE TREATED AS NECESSARY W/ APPROPRIATE INSECTICIDE TO CONTROL SOIL PESTS.
 - RAKING TO BE PERFORMED AS NEEDED TO MAINTAIN APPEARANCE. DE-THATCH & AERATE TURF ONCE DURING THE YEAR IN CONJUNCTION W/ RYE OVERSEEDING. IF OWNER OPTS TO NOT PERFORM OVERSEED, DE-THATCHING & AERATING TO BE PERFORMED IN EARLY SPRING.
 - BAG ALL AREAS WITHIN 45 FEET OF BUILDINGS, DRIVEWAYS, & SIDEWALKS.
 - SHRUBS, GROUND COVER, BEDS & ANNUALS**
 - TO BE MAINTAINED WEED FREE, AS NEEDED USING APPROPRIATE HERBICIDES & MANUAL WEEDING. USE A MINIMUM OF TWO PRE-EMERGENT APPLICATIONS & MANUALLY WEED EACH VISIT.
 - TO BE FERTILIZED FOUR TIMES PER YEAR W/ A BALANCED HIGH QUALITY, SLOW RELEASE FERTILIZER, APPROPRIATE TO THE SHRUBS ON THE PROJECT.
 - SHRUBBERY TO BE HAND TRIMMED AS SPECIFIED TO MAINTAIN A MANICURED APPEARANCE OR AS OTHERWISE REQUESTED BY OWNER. USE ONLY SKILLED PERSONNEL W/ SIGNIFICANT EXPERIENCE IN CLASS A PROPERTIES. NO SHEARING, ALL TO BE DONE W/ SELECTIVE HAND PRUNING TO KEEP PLANT WITHIN BOUNDS BUT TO MAINTAIN A NATURAL SHAPE & APPEARANCE.
 - TO BE INSPECTED WEEKLY BY QUALIFIED SUPERVISOR, FOLLOWED BY A WRITTEN REPORT OF PROBLEMS DISCOVERED & ACTIONS TO BE TAKEN.
 - AREAS TO BE SPRAYED W/ APPROPRIATE INSECTICIDES & FUNGICIDES, AS NECESSARY.
 - ANNUALS TO BE CHANGED OUT FOUR (4) TIMES PER YEAR USING FOUR (4) INCH POTS & FERTILIZED AT EACH CHANGE. MONITOR & APPLY FUNGICIDES & INSECTICIDES TO INSURE MAXIMUM VIGOR.
 - APPLY SHREDDED HARDWOOD MULCH TO A DEPTH OF TWO INCHES, A MINIMUM OF THREE TIMES ANNUALLY. IF MULCH DEPTH ACCUMULATION BECOMES SO EXCESSIVE AS TO BE DETRIMENTAL TO PLANT HEALTH, RAKE OUT & DISPOSE OF EXCESS QUANTITIES OF THE OLDEST MATERIAL, OFF-SITE.
 - ALL TRAFFIC & DIRECTIONAL SIGNAGE TO BE KEPT FREE & CLEAR FROM ALL BUSHES/SHRUBS, ETC.
 - A THREE-FOOT PERIMETER AROUND ALL FIRE HYDRANTS SHALL BE MAINTAINED
 - LANDSCAPE TREES (4" CALIPER OR LESS)**
 - TO BE LIGHTLY PRUNED AS NECESSARY (AT LEAST ONCE A MONTH DURING GROWING SEASON).
 - TO BE PRUNED & SHAPED ONCE DURING WINTER MONTHS. PRUNE TO CLASS I STANDARDS. NOTIFY MANAGEMENT PRIOR TO & IMMEDIATELY FOLLOWING PRUNING ACTIVITY. PRUNING TO BE DONE BY QUALIFIED TREE CARE FIRM, SUBJECT TO MANAGEMENT APPROVAL.
 - DEEP ROOT FERTILIZE ALL LANDSCAPE TREES ONE TIME PER YEAR. SUBMIT INFORMATION ON MATERIALS, APPLICATION METHODS & APPLICATOR QUALIFICATION ONE WEEK PRIOR TO PERFORMING WORK TO OWNER'S REPRESENTATIVE.
 - ALL TRAFFIC & DIRECTIONAL SIGNAGE TO BE KEPT FREE OF TREE LIMBS & BRANCHES
 - LARGE TREES (GREATER THAN 4" CALIPER)**
 - CONTRACTOR SHALL INSPECT FOR INSECT, DISEASE INFESTATIONS & TREE DAMAGE SUCH AS LIGHTNING OR VEHICULAR DAMAGE. CONTRACTOR SHALL NOTIFY MANAGEMENT IMMEDIATELY OF SUCH DANGER OR DISEASE SO THAT CORRECTIVE ACTION CAN BE TAKEN.
 - WHEN PRUNING IS REQUIRED TO REMOVE DEAD OR DAMAGED LIMBS, WORK IS TO BE DONE BY QUALIFIED TREE CARE FIRM. MANAGEMENT APPROVAL IS REQUIRED PRIOR TO PRUNING.
 - ANY FERTILIZING RECOMMENDED BY QUALIFIED TREE CARE FIRM IS SUBJECT TO APPROVAL.
 - ALL TRAFFIC & DIRECTIONAL SIGNAGE TO BE KEPT FREE OF TREE LIMBS & BRANCHES
 - DEBRIS & LITTER**
 - NORMAL TRASH & LITTER WILL BE REMOVED FROM ALL LAWN & LANDSCAPED AREAS WEEKLY.
 - ALL DEBRIS RESULTING FROM ANY & ALL LANDSCAPE WORK SHALL BE CLEANED UP IMMEDIATELY.
 - PAVED AREAS**
 - AT PARKING LOT PERIMETERS & PAVING JOINTS, WEEDS & GRASSES ARE TO BE CONTROLLED W/ CONTACT HERBICIDE SPRAYS & MANUAL WEEDING AS REQUIRED.
 - ALL DEBRIS RESULTING FROM ANY & ALL LANDSCAPE WORK SHALL BE CLEANED UP IMMEDIATELY.
 - IRRIGATION**
 - CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING & OPERATING ALL IRRIGATION SYSTEMS AT THE PROPERTY EXCEPT AS MAY BE OTHERWISE NOTED.
 - IRRIGATION SYSTEMS MUST BE INSPECTED MONTHLY & A REPORT MUST BE SUBMITTED TO MANAGEMENT. MANAGEMENT MUST APPROVE REPAIRS GREATER THAN \$250.00.
 - CONTRACTOR WILL ENSURE THAT WATERING CYCLES ARE IN COMPLIANCE W/ ANY CITY GUIDELINES AS A RESULT OF WATER RATIONING OR WATER CONSERVATION. ANY FEES OR PENALTIES INCURRED BY VIOLATION OF ORDINANCES WILL BE BILLED TO CONTRACTOR.
 - ALL HEADS & NOZZLES BROKEN BY LANDSCAPE MAINTENANCE OPERATIONS WILL BE REPAIRED OR REPLACED AT CONTRACTOR EXPENSE. ALL NOZZLES WILL BE CLEANED MONTHLY IF NECESSARY, & ALL HEADS WILL BE ADJUSTED AS NEEDED.
 - GENERAL**
 - CONTRACTOR SHALL PROVIDE ADEQUATE SUPERVISION TO ASSURE THAT ALL WORK WILL BE DONE IN ACCORDANCE W/ THIS AGREEMENT & GENERALLY ACCEPTED GOOD PRACTICE. A WEEKLY VISIT BY A QUALIFIED SUPERVISOR IS A MINIMUM REQUIREMENT. ADEQUATE TIME SHALL BE ALLOWED FOR A THOROUGH & COMPLETE EXAMINATION OF THE ENTIRE PROPERTY.
 - CONTRACTOR SHALL REPLACE AT CONTRACTOR'S EXPENSE ANY PLANT MATERIAL THAT DIES DUE TO DAMAGE BY LAWN MAINTENANCE, EQUIPMENT OR CONTRACTOR'S NEGLIGENCE.
 - ALL WORK SHALL BE PERFORMED BY CONTRACTOR'S EMPLOYEES; NO WORK SHALL BE PERFORMED BY SUBCONTRACTORS WITHOUT WRITTEN CONSENT OF MANAGEMENT.
 - EMPLOYEES TO WEAR UNIFORMS & PROVIDE NEAT APPEARANCE & PROFESSIONAL BEHAVIOR.
 - CREW MEMBERS WILL OBSERVE ALL OSHA REGULATIONS. ALL EQUIPMENT WILL BE PROPERLY MAINTAINED & KEPT IN A SAFE OPERATING CONDITION.
 - ALL DEBRIS RESULTING FROM ANY & ALL LANDSCAPE WORK SHALL BE IMMEDIATELY CLEANED UP & REMOVED FROM SITE. USE OF AN ON-SITE DUMPSTER IS PROHIBITED.
 - ADDITIONAL PROJECTS, LANDSCAPE UPGRADES, ETC. WILL BE NEGOTIATED AS NEEDED.
 - POTS OR SIDEWALK PLANTERS AT PROPERTY SHALL BE MAINTAINED IN ACCORDANCE W/ ALL SPECS NOTED ABOVE. IRRIGATION SHALL BE MAINTAINED OR HAND WATER AS NEEDED.

CEDAR PARK GENERAL NOTES:

- THESE PLANS ARE IN FULL COMPLIANCE WITH THE LANDSCAPE AND TREE ORDINANCE OF THE CITY OF CEDAR PARK, TEXAS.
- ALL TREES OVERHANGING A DRIVE AISLE, FIRE LANE OR LOADING ZONE SHALL BE LIMBED UP 14'. ALL TREES OVERHANGING A PEDESTRIAN WALK OR SIDEWALK SHALL BE LIMBED UP 8'.
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- CONTRACTOR SHALL PRUNE ALL TREE LIMBS HANGING OVER THE SIDEWALK ON ROYAL LANE, LONE STAR DR OR WHITESTONE BLVD TO PROVIDE NOT LESS THAN 8' OF CLEARANCE ABOVE THE SIDEWALK

SUBMISSIONS | REVISIONS::

01.13.2023	SITE DEVELOPMENT PERMIT SET
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owner ::

Good Shepherd
Lutheran Church

700 w. whitestone,
cedar park, tx

**GOOD SHEPHERD LC
LANDSCAPE MASTER PLAN
PHASE ONE**
700 W. WHITESTONE BLVD, CEDAR PARK, TX 78613

sheet information ::

project #: 21.730
date :: 05.01.2023
designed :: bm, ag
drawn :: cl, ag
checked :: jw
approved :: bab



EXISTING TREE CHART

EXISTING TREE CHART - Good Shepherd Lutheran Church

Dead Condition shall be removed with 0% of required mitigation.
 Poor Very Poor condition shall be removed with 0% of required mitigation.
 Storm Damage condition means the tree was damaged during the severe weather event and removal shall be removed with 0% of required mitigation.

Protected Tree means a tree with a diameter of 8 - 25 inches.
 Heritage Tree means a tree with a diameter of 26 inches or more of the following species:
 Deciduous means a tree selected to remain and will be retained for due to encroachment into 10' OCZ.
 One Credit shall be given for each protected tree over 4" caliper at the base or for each 4" increment of trunk diameter.

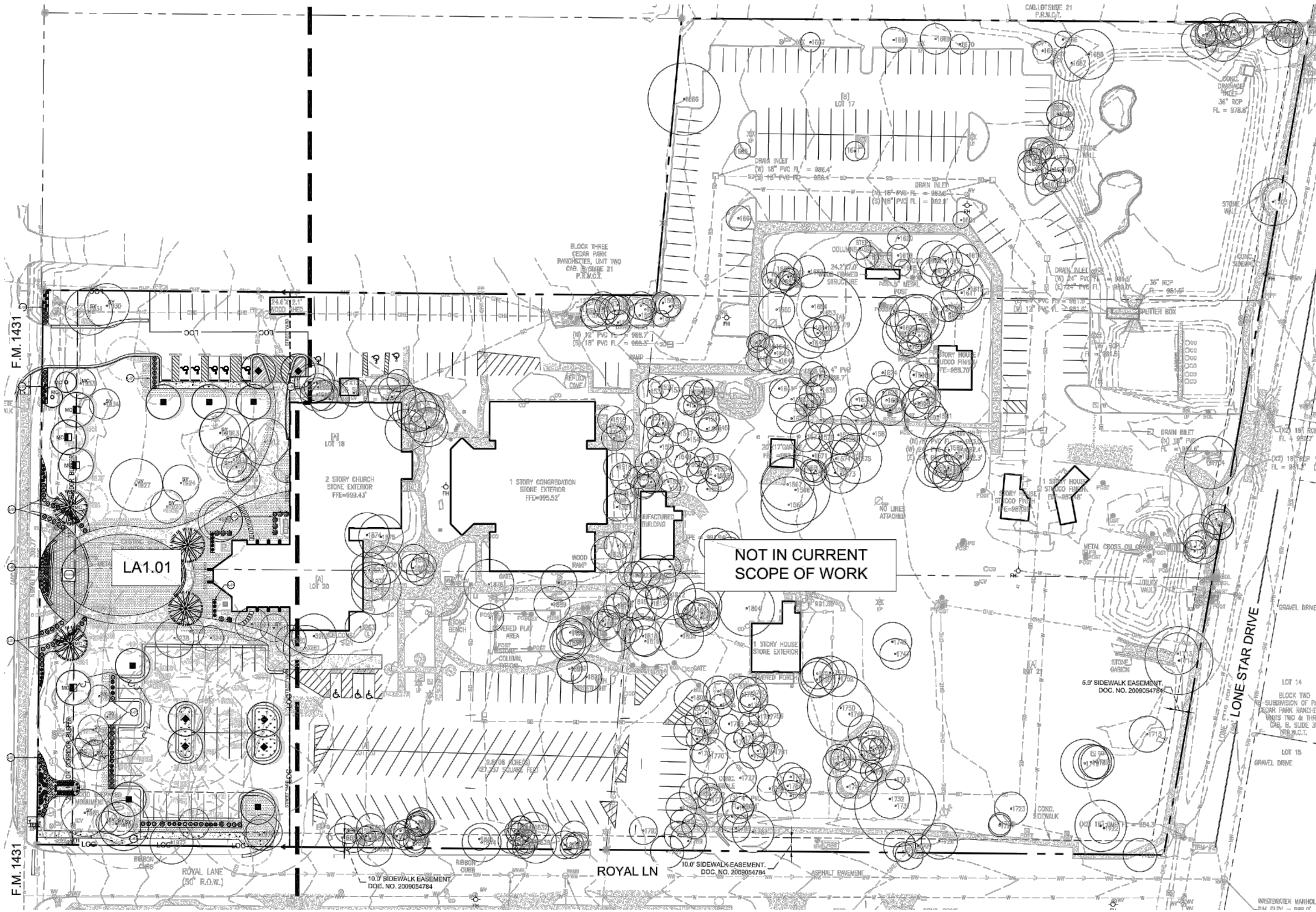
Tag	Designation	Species	Condition	Size (in)	Multi-Trunk	Credits	Mitigation	Enhanced	Removed
1001	Live Oak	Fair	8						
1002	Live Oak	Fair	8						
1003	Live Oak	Fair	8						
1004	Live Oak	Understated	7.5						
1005	Live Oak	Fair	8						
1006	Live Oak	Fair	8						
1007	Live Oak	Fair	8						
1008	Live Oak	Fair	8						
1009	Live Oak	Fair	8						
1010	Live Oak	Fair	8.5						
1011	Live Oak	Fair	7.5						
1012	Live Oak	Fair	7.5						
1013	Live Oak	Fair	11.5						
1014	Live Oak	Fair	10						
1015	Live Oak	Fair	10						
1016	Live Oak	Fair	8.5						
1017	Live Oak	Fair	8.5						
1018	Live Oak	Fair	8						
1019	Live Oak	Fair	8						
1020	Live Oak	Understated	7.5						
1021	Live Oak	Fair	10						
1022	Live Oak	Understated	7.5						
1023	Live Oak	Fair	8						
1024	Live Oak	Understated	7.5						
1025	Live Oak	Understated	7.5						
1026	Live Oak	Understated	7.5						
1027	Live Oak	Understated	7.5						
1028	Live Oak	Understated	7.5						
1029	Live Oak	Understated	7.5						
1030	Live Oak	Understated	7.5						
1031	Live Oak	Understated	7.5						
1032	Live Oak	Understated	7.5						
1033	Live Oak	Very Poor - Storm Damage	7.5						
1034	Live Oak	Understated	7						
1035	Live Oak	Understated	7						
1036	Live Oak	Understated	7						
1037	Live Oak	Understated	7						
1038	Live Oak	Understated	7						
1039	Live Oak	Understated	7						
1040	Live Oak	Very Poor - Storm Damage	7.5						
1041	Live Oak	Understated	7						
1042	Live Oak	Understated	7.5						
1043	Live Oak	Understated	7.5						
1044	Live Oak	Understated	7.5						
1045	Live Oak	Understated	7.5						
1046	Live Oak	Very Poor - Storm Damage	7.5						
1047	Live Oak	Understated	7						
1048	Live Oak	Understated	7						
1049	Live Oak	Fair	8						
1050	Live Oak	Fair	8						
1051	Live Oak	Understated	7						
1052	Live Oak	Understated	7						
1053	Live Oak	Understated	7						
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1123	Live Oak	Understated	7						
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1125	Live Oak	Understated	7						
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1127	Live Oak	Understated	7						
1128	Live Oak	Understated	7						
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1168	Live Oak	Understated	7						
1169	Live Oak	Understated	7						
1170	Live Oak	Understated	7						
1171	Live Oak	Understated	7						
1172	Live Oak	Understated	7						

EXISTING TREE CHART - Good Shepherd Lutheran Church

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Tag	Designation	Species	Condition	Size (in)	Multi-Trunk	Credits	Mitigation	Enhanced	Removed
1921	Live Oak	Fair	8						
1922	Live Oak	Fair	8						
1923	Live Oak	Fair	8						
1924	Live Oak	Fair	8						
1925	Live Oak	Fair	8						
1926	Live Oak	Fair	8						
1927	Live Oak	Fair	8						
1928	Live Oak	Fair	8						
1929	Live Oak	Fair	8						
1930	Live Oak	Fair	8						
1931	Live Oak	Fair	8						
1932	Live Oak	Fair	8						
1933	Live Oak	Fair	8						
1934	Live Oak	Fair	8						
1935	Live Oak	Fair	8						
1936	Live Oak	Fair	8						
1937	Live Oak	Fair	8						
1938	Live Oak	Fair	8						
1939	Live Oak	Fair	8						
1940	Live Oak	Fair	8						
1941	Live Oak	Fair	8						
1942	Live Oak	Fair	8						
1943	Live Oak	Fair	8						
1944	Live Oak	Fair	8		</				



LINETYPE LEGEND

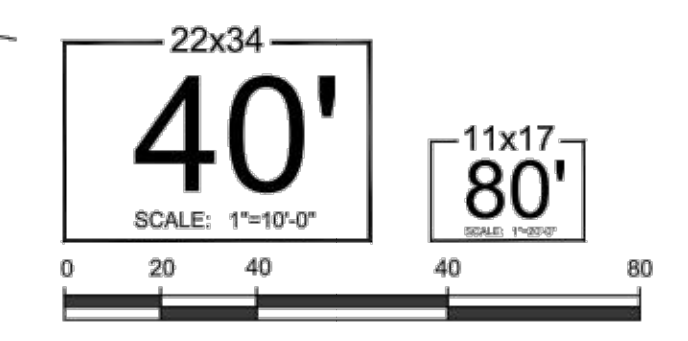
- LOC — LIMITS OF CONSTRUCTION
- - - STREET YARD
- — — MAJOR CORRIDOR BUFFER
- ■ ■ MATCHLINE

TREE LEGEND

- HERITAGE TREE
- SAVED TREE
- REMOVED TREE
- 50' FT RADIUS FROM SHADE TREE
- MC MAJOR CORRIDOR TREE
- SY STREET YARD TREE

CEDAR PARK GENERAL NOTES:

1. THESE PLANS ARE IN FULL COMPLIANCE WITH THE LANDSCAPE AND TREE ORDINANCE OF THE CITY OF CEDAR PARK, TEXAS.
2. ALL TREES OVERHANGING A DRIVE AISLE, FIRE LANE OR LOADING ZONE SHALL BE LIMBED UP 14'. ALL TREES OVERHANGING A PEDESTRIAN WALK OR SIDEWALK SHALL BE LIMBED UP 8'.
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4. ALL MECHANICAL EQUIPMENT (ROOF, GROUND, OR BUILDING MOUNTED) IS REQUIRED TO BE SCREENED FROM RIGHTS-OF-WAY AND ADJACENT PROPERTIES.
5. FOR OUTDOOR CONDENSERS, UTILITY HUTS, AND OTHER BUILDING SERVICE EQUIPMENT, SUCH EQUIPMENT SHALL BE COMPLETELY SCREENED FROM VIEW ON ALL SIDES USING A VEGETATIVE SCREEN WITH AT LEAST TWO (2) VARIETIES OF PLANT MATERIAL FROM THE PREFERRED PLANT LIST THAT, AT MATURITY, IS AT LEAST THE HEIGHT OF THE EQUIPMENT TO BE SCREENED.
6. CONTRACTOR SHALL PRUNE ALL TREE LIMBS HANGING OVER THE SIDEWALK ON ROYAL LANE, LONE STAR DR OR WHITESTONE BLVD TO PROVIDE NOT LESS THAN 8' OF CLEARANCE ABOVE THE SIDEWALK



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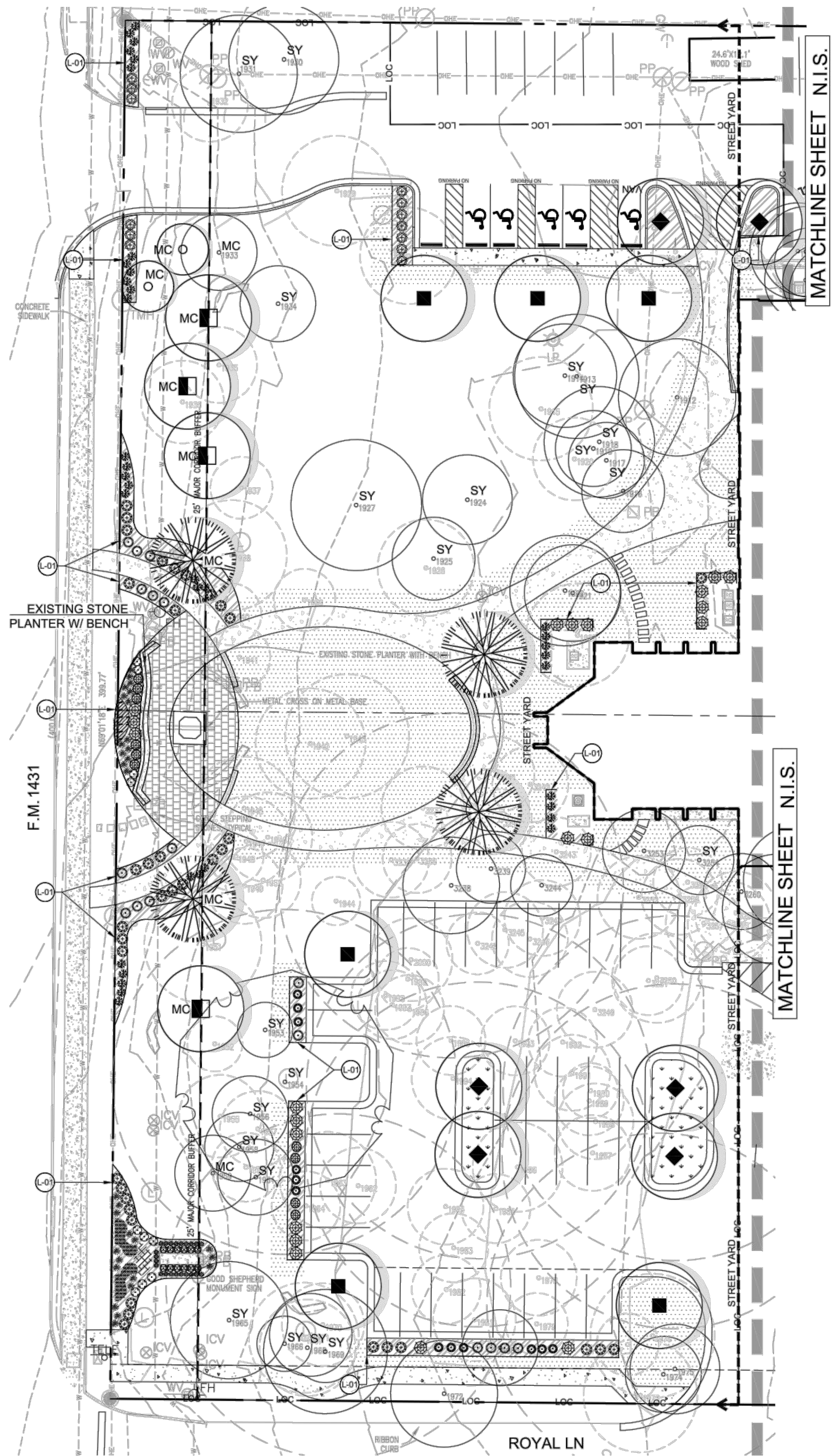
owner ::
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Lutheran Church

700 w. whitestone,
cedar park, tx

**GOOD SHEPHERD LC
LANDSCAPE MASTER PLAN
PHASE ONE**
700 W. WHITESTONE BLVD, CEDAR PARK, TX 78613

sheet information ::
project #: 21.730
date :: 05.01.2023
designed :: bm, ag
drawn :: cl, ag
checked :: jw
approved :: bab





MATCHLINE SHEET N.I.S.

MATCHLINE SHEET N.I.S.

PLANT SCHEDULE

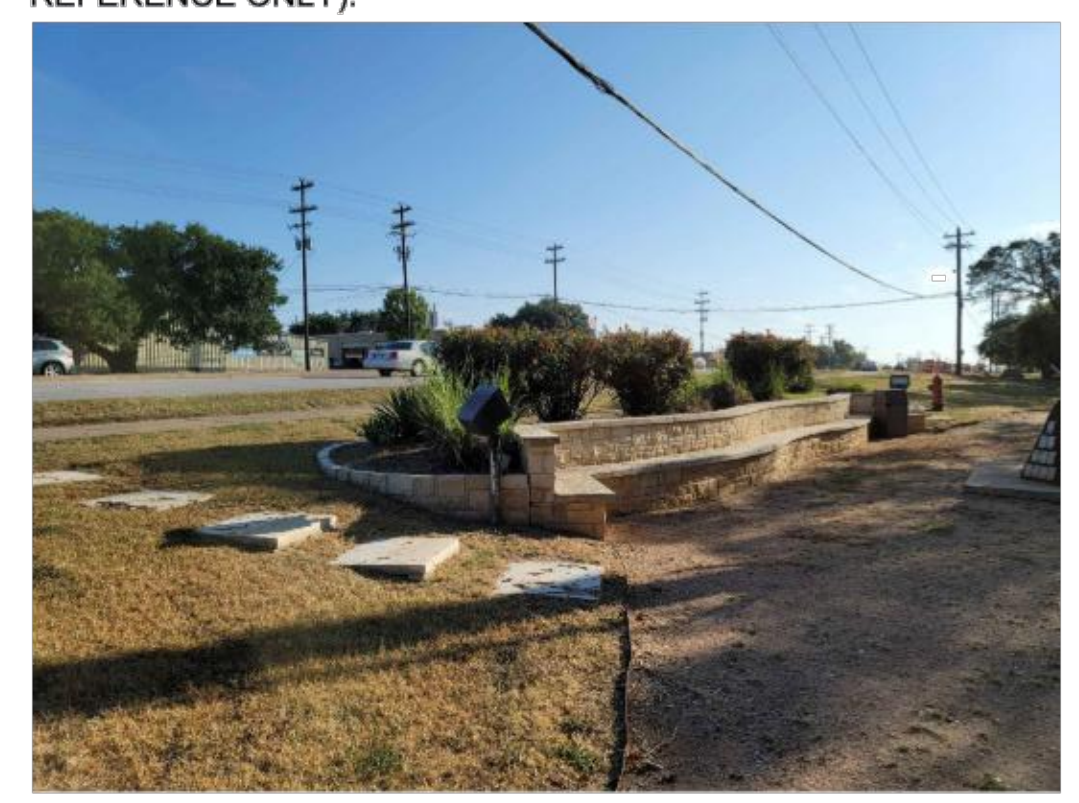
TREES	COMMON / BOTANICAL NAME
	BALD CYPRESS TAXODIUM DISTICHUM
	SHUMARD OAK QUERCUS SHUMARDII
	SOUTHERN LIVE OAK QUERCUS VIRGINIANA
	MEXICAN SYCAMORE PLATANUS MEXICANA
ORNAMENTAL TREE	COMMON / BOTANICAL NAME
	MEXICAN BUCKEYE UNGNADIA SPECIOSA
SHRUBS	COMMON / BOTANICAL NAME
	BIG MUHLY MUHLENBERGIA LINDHEIMERI 'BIG'
	DWARF WAX MYRTLE MYRICA CERIFERA 'PUMILA'
	FLAME ACANTHUS ANISACANTHUS QUADRIFIDUS
	INDIGO SPIRES SAGE SALVIA X 'INDIGO SPIRES'
	LITTLE BUNNY FOUNTAIN GRASS PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'
	RED BIRD OF PARADISE CAESALPINIA PULCHERRIMA
	RED YUCCA HESPERALOE PARVIFLORA
	TEXAS SAGE LEUCOPHYLLUM FRUTESCENS
	THRYALLIS GALPHIMIA GLAUCA
	TURK'S CAP MALVAVICUS DRUMMONDII
	MEXICAN FEATHERGRASS NASSELLA TENUISSIMA 'PONY TAILS'

MATERIALS	COMMON / BOTANICAL NAME
	HARDWOOD MULCH 3" TEXAS DARK MULCH IN ALL PLANTING BEDS
GROUNDCOVERS	COMMON / BOTANICAL NAME
	DAMIANITA CHRYSACTINIA MEXICANA
	TRAILING ROSEMARY ROSMARINUS OFFICINALIS 'PROSTRATUS'
SEED/ SOD	COMMON / BOTANICAL NAME
	BERMUDA GRASS CYNODON DACTYLON
	BERMUDA GRASS CYNODON DACTYLON

NOTE: CONTRACTOR TO HYDROSEED ALL DISTURBED AREAS

IMAGE FOR REFERENCE

EXISTING STONE PLANTER WITH BENCH (IMAGE FOR REFERENCE ONLY).



GENERAL LANDSCAPE NOTES:

- A 3 FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANTS.
- CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING AROUND HERITAGE TREES AND THAT ANY TRIMMING OF LIMBS OF DESIGNATED HERITAGE TREES MUST REQUIRE AN ARBORIST AND LANDSCAPE ARCHITECT ON-SITE PRIOR TO ANY WORK PERFORMED.

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KEY LEGEND

NOTE: ITEMS LISTED BELOW REFERENCE ALL SHEETS. QUANTITIES ARE INCLUDED FOR CONTRACTOR CONVENIENCE AND CONTRACTOR SHALL VERIFY ASSOCIATED QUANTITIES.

SYM	DESCRIPTION	QTY
L-01	3/16" THICK STEEL EDGING	858 LF

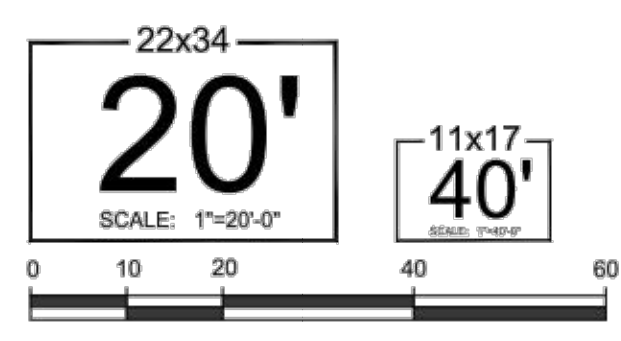
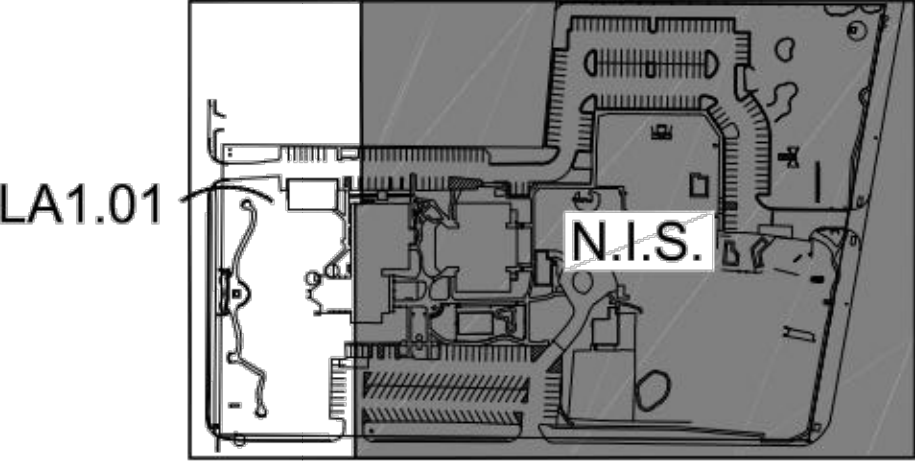
LINETYPE LEGEND

---	LOC	LIMITS OF CONSTRUCTION
---	---	STREET YARD
---	---	MAJOR CORRIDOR BUFFER
---	---	MATCHLINE

TREE LEGEND

	HERITAGE TREE
	SAVED TREE
	REMOVED TREE
	50' FT RADIUS FROM SHADE TREE
MC	MAJOR CORRIDOR TREE
SY	STREET YARD TREE

KEY MAP - NTS

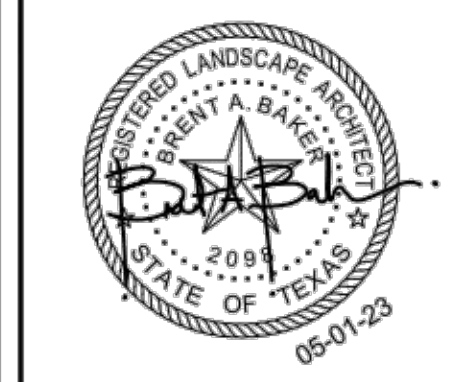


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p: 512.750.0440
e: tammi@migleengineering.com

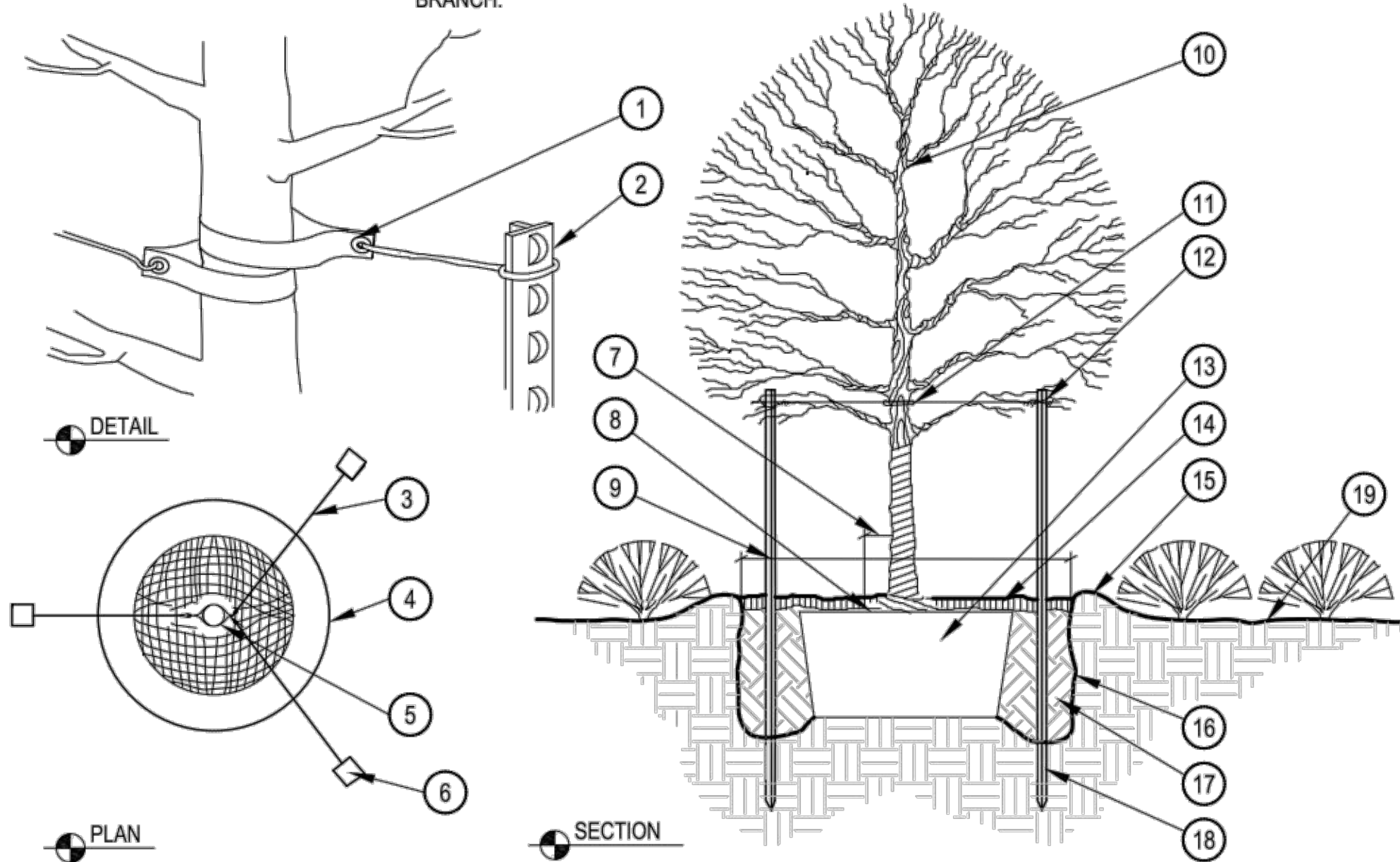
owner ::
Good Shepherd
Lutheran Church
700 w. whitestone,
cedar park, tx

**GOOD SHEPHERD LC
LANDSCAPE MASTER PLAN
PHASE ONE**
700 W. WHITESTONE BLVD, CEDAR PARK, TX 78613

sheet information ::
project #: 21.730
date :: 05.01.2023
designed :: bm, ag
drawn :: cl, ag
checked :: jw
approved :: bab



- NOTES:
1. ROOTBALL SIZE SHALL CONFORM TO THE 1995 AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS UNLESS OTHERWISE NOTED.
 2. USE THREE STAKES ON ALL TREES.
 3. APPROVED TIE SYSTEM SHALL BE LOCATED ABOVE THE BOTTOM BRANCH.



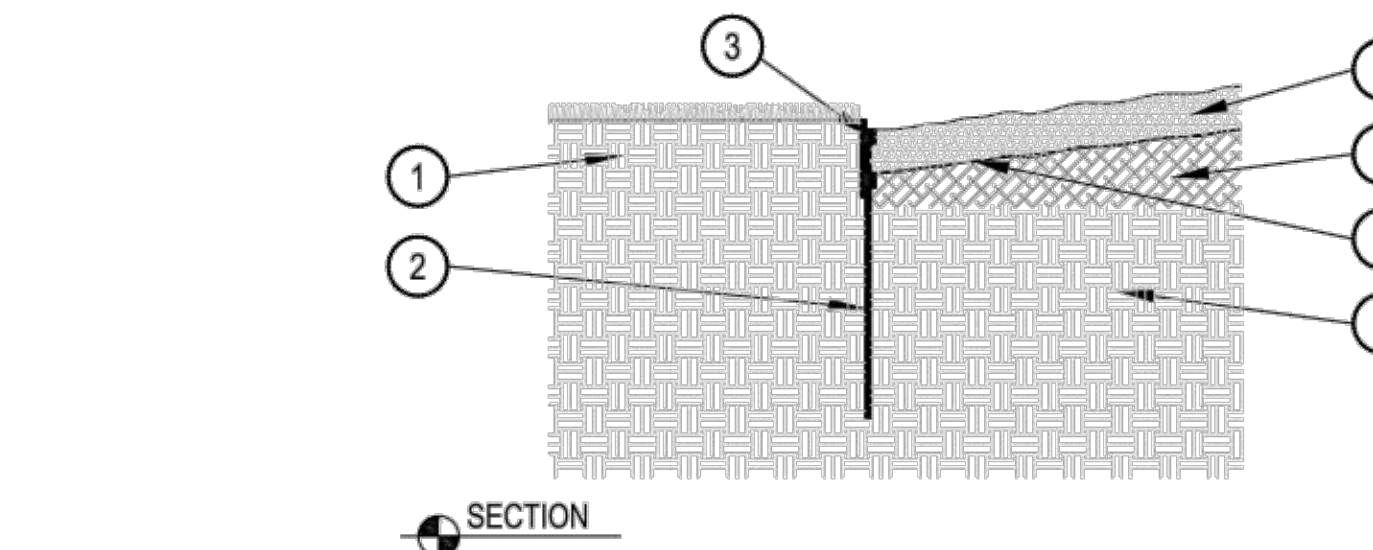
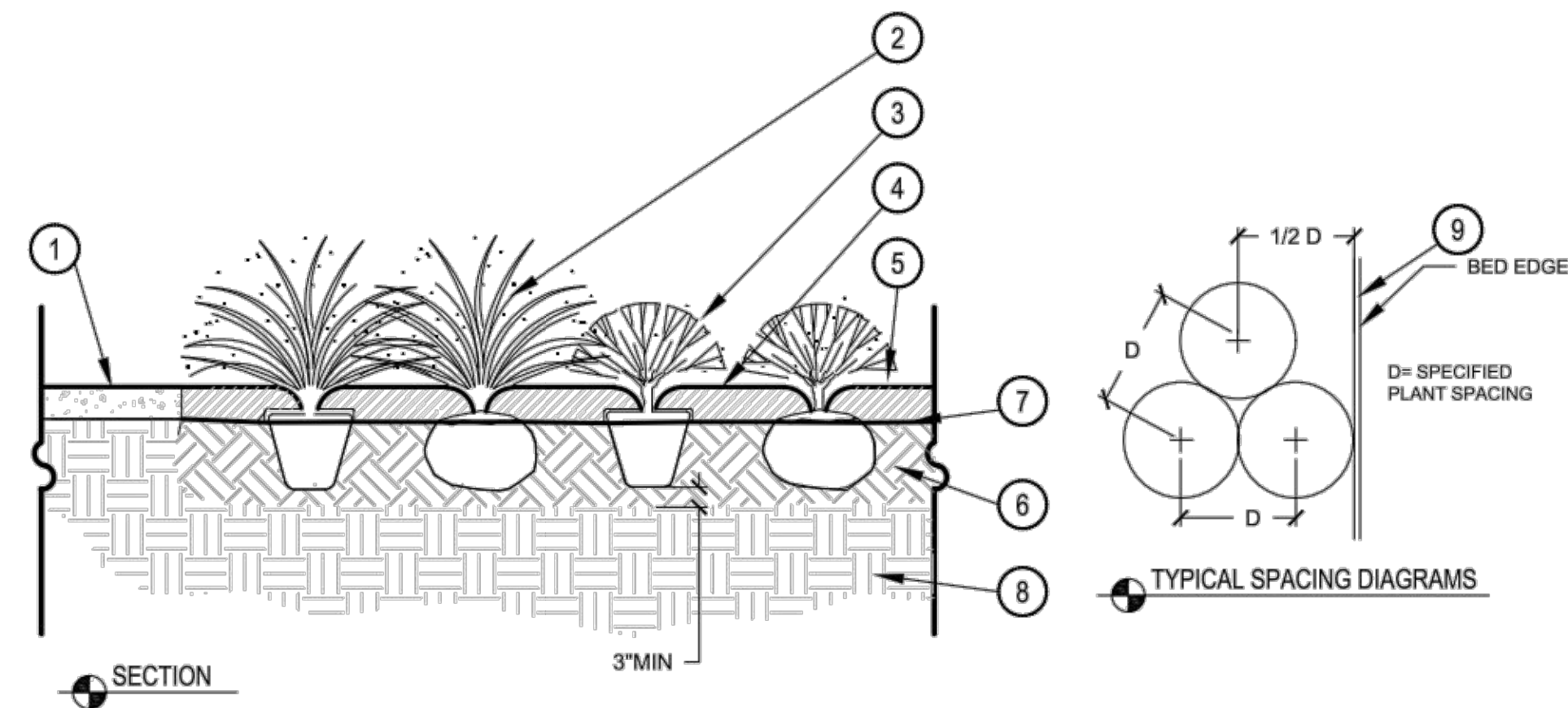
1 SINGLE TRUNK TREE PLANTING AND STAKING

SCALE: NTS

- APPROVED TREE TIE SYSTEM (SEE NOTES)
 LOOP SHALL BE 3X THE DIAMETER OF TRUNK IN ORDER TO PREVENT SCARING, CUTTING, GIRDLING, OR OTHER DAMAGE TO TREE
- 1 LOOP SHALL BE 3X THE DIAMETER OF TRUNK IN ORDER TO PREVENT SCARING, CUTTING, GIRDLING, OR OTHER DAMAGE TO TREE
 - 2 STEEL STUDDED FENCE POST-STUDS MUST FACE AWAY FROM TREE
 - 3 APPROVED TREE TIE SYSTEM (SEE NOTES)
 - 4 EDGE OF TREE PIT
 - 5 TREE TRUNK
 - 6 STUDDED STEEL FENCE POST
 - 7 CONTRACTOR TO LEAVE 6" MIN. ROOT FLAIR UNCOVERED BY MULCH, SOIL, AND PLANTING MIX
 - 8 PLACE TOP OF ROOT CROWN 2" ABOVE FINISH GRADE
 - 9 EXCAVATE HOLE 2X ROOT BALL DIAMETER
 - 10 NEVER CUT LEADER-THIN UP TO 1/3 OF BRANCHES RETAINING NATURAL SHAPE OF TREE - DO NOT LEAVE STUBS
 - 11 APPROVED TIE SYSTEM ABOVE THE FIRST BRANCH
 - 12 STAKE ALL TREES USING METAL STAKES-3 PER TREE
 - 13 DO NOT BREAK ROOT BALL. IF ROOT BALL IS BROKEN PLANT WILL BE REJECTED. REMOVE BURLAP FROM TOP OF ROOT BALL
 - 14 3" MULCH LAYER AS SPECIFIED
 - 15 4" HT. SAUCER AROUND PLANTING PIT
 - 16 ROUGHEN SURFACE TO IMPROVE ROOT PENETRATION
 - 17 50% EXCAVATED SOIL AND 50% PLANTING SOIL MIX
 - 18 MIN. 3 STAKES PER TREE PAINTED BLACK STEEL STAKE 3 LARGEST STEMS ON TREE
 - 19 FINISH GRADE

3 SHRUB/ GRASS PLANTING

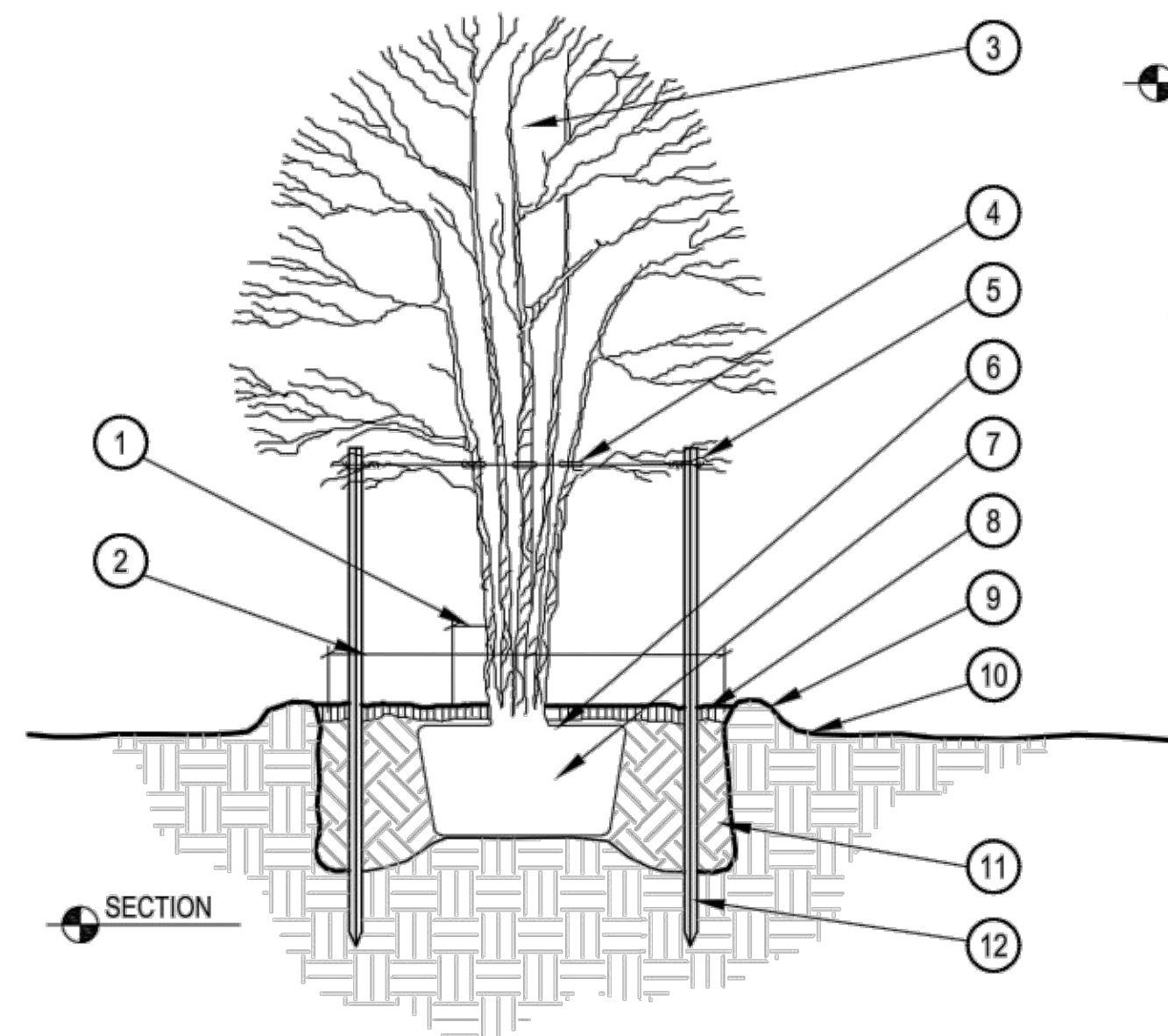
SCALE: NTS



4 STEEL EDGING

SCALE: NTS

- 1 ADJACENT TURF OR AGGREGATE
- 2 8" STEEL STAKE
- 3 STEEL LANDSCAPE EDGING 3/16" X 4", ENSURE TOP EDGE IS FLUSH WITH ANY ADJACENT HARDSCAPE SURFACE
- 4 FINISHED GRADE, PLANT BED, OR GROUND COVER
- 5 TOP SOIL AS SPECIFIED
- 6 GEOTEXTILE FABRIC TO MEET TYPAR 3301 MIN. SPECIFICATIONS OR APPROVED EQUAL
- 7 UNDISTURBED SUBGRADE



2 MULTI-STEM TREE PLANTING AND STAKING STANDARD

SCALE: NTS

- NOTES:
1. TOTAL CALIPER INCHES OF A MULTIPLE TRUNK TREE IS CALCULATED AS FOLLOWS: ADD THE CALIPER INCHES OF THE LARGEST TRUNK TO HALF OF THE CALIPER INCH OF EACH OF THE SMALLER TRUNKS.
 2. ROOTBALL WIDTH SHOULD BE DETERMINED BY THE FOLLOWING: 8" OF ROOTBALL DIA. FOR EACH 1" CALIPER OF TREE TRUNK.
 3. ROOTBALL DEPTH IS 2/3RDS OF THE DIAMETER.

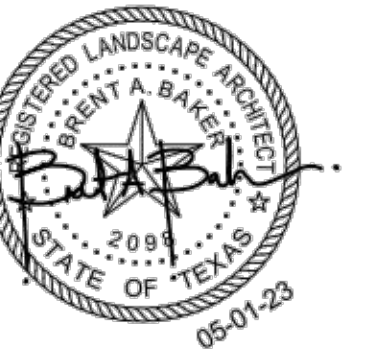
- 1 CONTRACTOR TO LEAVE 6" MIN. ROOT FLAIR UNCOVERED BY MULCH, SOIL, AND PLANTING MIX
- 2 EXCAVATE HOLE 2X ROOT BALL DIAMETER
- 3 NEVER CUT LEADER - THIN UP TO 1/3 OF BRANCHES RETAINING NATURAL SHAPE OF TREE - DO NOT LEAVE STUBS
- 4 ATTACH GUY WIRE & HOSE ABOVE FIRST BRANCH.
- 5 STAKE ALL TREES USING METAL STAKES-3 PER TREE
- 6 PLACE TOP OF ROOT CROWN 2" ABOVE FINISH GRADE
- 7 DO NOT BREAK ROOT BALL. IF ROOT BALL IS BROKEN PLANT WILL BE REJECTED. REMOVE BURLAP FROM TOP OF ROOT BALL
- 8 3" MULCH LAYER AS SPECIFIED
- 9 4" HT. SAUCER AROUND PLANTING PIT
- 10 FINISH GRADE
- 11 50% EXCAVATED SOIL AND 50% PLANTING SOIL MIX
- 12 HEAVY DUTY, METAL STAKE TO BE MINIMUM 8'-0" LONG STAKE TO BE 18" BELOW PIT IN UNDISTURBED SUBGRADE
- 13 LACE HOSE GUARDS TOGETHER WITH SINGLE WIRE STAY
- 14 MIN. 3 STAKES PER TREE PAINTED BLACK STEEL STAKE 3 LARGEST STEMS ON TREE

SUBMISSIONS | REVISIONS:

01.13.2023	SITE DEVELOPMENT PERMIT SET
03.27.2023	SITE DEVELOPMENT PERMIT SET R2
05.01.2023	SITE DEVELOPMENT PERMIT SET R3

NOT FOR CONSTRUCTION

The Texas Board of Architectural Examiners, P.O. Box 12337, Austin, Texas 78701-2337 or 333 Guadalupe, Suite 2-330, Austin, Texas 78701-3942, (512)305-9000, has jurisdiction over individuals licensed under the Landscape Architects Registration Law, Texas Civil Statutes, Article 248c.



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civil engineer ::

tammii migl, pe/principal
 9600 escarpment boulevard,
 suite 745-174
 austin, texas, 78749
 p: 512.750.0440
 e: tammii@migliengineering.com

owner ::

Good Shepherd
 Lutheran Church

700 w. whitestone,
 cedar park, tx

**GOOD SHEPHERD LC
 LANDSCAPE MASTER PLAN
 PHASE ONE**
 700 W. WHITESTONE BLVD., CEDAR PARK, TX 78613

sheet information ::

project #: 21.730
 date :: 05.01.2023
 designed :: bm, ag
 drawn :: cl, ag
 checked :: jw
 approved :: bab

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 Kyle Quick, 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:

Matthew Headley
Applicant's Signature

5-25-2023
Date

THE STATE OF Texas §
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.

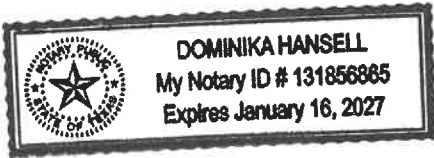
GIVEN under my hand and seal of office on this 25th day of May, 2023

Dominika Hensell

NOTARY PUBLIC

Dominika Hensell

Typed or Printed Name of Notary



MY COMMISSION EXPIRES: 01-16-2027

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: Kyle Quick, P.E.

Phone: (512) 965-2318

Customer Reference Number (if issued):CN _____

Regulated Entity Reference Number (if issued):RN 105743777

Austin Regional Office (3373)

Hays

Williamson

Travis

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

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

Overnight Delivery to: TCEQ - Cashier

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

Recharge Zone

Contributing Zone

Transition Zone

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

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

Signature: 

Date: 5/26/23

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

<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
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	≥ 500	\$10,000
	< 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.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input checked="" type="checkbox"/> Other CZ Exception	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN		RN 105743777

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input type="checkbox"/> New Customer		<input checked="" type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> 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:	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input checked="" type="checkbox"/> Other: Church	
12. Number of Employees		13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner		<input type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input checked="" type="checkbox"/> Owner & Operator	
<input type="checkbox"/> Responsible Party		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> 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)	
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> 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: <i>(No PO Boxes)</i>	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? <i>(Do not repeat the SIC or NAICS description.)</i>								
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 <i>(if applicable)</i>				
(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.

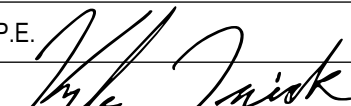
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source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

SECTION IV: Preparer Information

40. Name:	Kyle Quick, P.E.	41. Title:	Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 965-2318		() -	Kyle@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:	Project Manager
Name <i>(In Print)</i> :	Kyle Quick, P.E.	Phone:	(512) 965- 2318
Signature:		Date:	5/26/23