MARKET STREET INDUSTRIAL

Water Pollution Abatement Plan

October 10, 2022

Prepared For: Market Warehouse, LLC Brentley Brinegar and Ben Williams 410 W. Anderson Avenue, Round Rock, Texas 78664

Prepared By: 2P Consultants, LLC 203 E. Main Street, Suite 204 Round Rock, Texas 78664



Michael Easton Mundine, P.E. Project Manager



TBPE FIRM #F-19351



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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 <u>30 TAC 213</u>.

Administrative Review

1. <u>Edwards Aquifer applications</u> 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: <u>http://www.tceq.texas.gov/field/eapp</u>.

- 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: Market Street Industrial				al	2. Regulated Entity No.: RN111418463			
3. Customer Name: Market Warehouse			use, LLC		4. Customer No.: CN605978725			78725
5. Project Type: (Please circle/check one)					Extension		Exception	
6. Plan Type: (Please circle/check one)		SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one) Residential Non-residential		tial	8. Site (acres):		e (acres):	4.9471		
9. Application Fee:	\$4,000.00	10. Permanent I		BMP(s):		Batch Detention - smartBATCH		
11. SCS (Linear Ft.):	N/A	12. AST/UST (N		T (No. Tanks):		N/A		
13. County:	Williamson	14. Watershed:					Berry 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.)					
Region (1 req.)		_			
County(ies)					
Groundwater Conservation District(s)	Edwards Aquifer Authority Barton Springs/ Edwards Aquifer Hays Trinity Plum Creek	Barton Springs/ Edwards Aquifer	NA		
City(ies) Jurisdiction	Austin Buda Dripping Springs Kyle Mountain City San Marcos Wimberley Woodcreek	Austin Bee Cave Pflugerville Rollingwood Round Rock Sunset Valley West Lake Hills	Austin Cedar Park Florence X_Georgetown Jerrell Leander Liberty Hill Pflugerville Round Rock		

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

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

Michael Easton Mundine, P.E. Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

10/10/2022 Date

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

Section I General Information Form (TCEQ-0585)

General Information Form

Texas Commission on Environmental Quality

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

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

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

Signature

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

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

Date: October 10, 2022

Signature of Customer/Agent:

Eat 1

Project Information

- 1. Regulated Entity Name: Market Street Industrial
- 2. County: Williamson
- 3. Stream Basin: Brazos River
- 4. Groundwater Conservation District (If applicable): N/A
- 5. Edwards Aquifer Zone:

$\left<$	Recharge Zone
	Transition Zone

6. Plan Type:

WPAP	AST
scs	UST UST
Modification	Exception Request

7. Customer (Applicant):

Contact Person: <u>Brentley Brinegar</u> Entity: <u>Market Warehouse, LLC</u> Mailing Address: <u>410 W. Anderson Avenue</u> City, State: <u>Round Rock, Texas</u> Telephone: <u>(512) 940-0188</u> Email Address: <u>bb@512texas.com</u>

Zip: <u>78664</u> FAX: _____

8. Agent/Representative (If any):

Contact Person: Michael Easton Mundine, P.E.Entity: 2P Consultants, LLC.Mailing Address: 203 E. Main St., Suite 204City, State: Round Rock, TXTelephone: (512) 344-9664Email Address: emundine@2Pconsultants.com

9. Project Location:

The project site is located inside the city limits of _____.

The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of <u>Georgetown</u>.

- The project site is not located within any city's limits or ETJ.
- 10. The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

181 Market Street, Georgetown, Texas 78626

- 11. Attachment A Road Map. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.
- 12. Attachment B USGS / Edwards Recharge Zone Map. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

Project site boundaries.

USGS Quadrangle Name(s).

Boundaries of the Recharge Zone (and Transition Zone, if applicable).

Drainage path from the project site to the boundary of the Recharge Zone.

- 13. The TCEQ must be able to inspect the project site or the application will be returned. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.
 - Survey staking will be completed by this date: October 17, 2022

- 14. Attachment C Project Description. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:
- Area of the site
 Offsite areas
 Impervious cover
 Permanent BMP(s)
 Proposed site use
 Site history
 Previous development
 Area(s) to be demolished
 15. Existing project site conditions are noted below:
 - Existing commercial site
 Existing industrial site
 Existing residential site
 Existing paved and/or unpaved roads
 Undeveloped (Cleared)
 Undeveloped (Undisturbed/Uncleared)
 Other: _____

Prohibited Activities

- 16. I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:
 - (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
 - (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
 - (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
 - (4) The use of sewage holding tanks as parts of organized collection systems; and
 - (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
 - (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.
- 17. I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:
 - (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
 - (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and

(3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

- 18. The fee for the plan(s) is based on:
 - For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
 - For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
 - For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
 - A request for an exception to any substantive portion of the regulations related to the protection of water quality.
 - A request for an extension to a previously approved plan.
- 19. Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

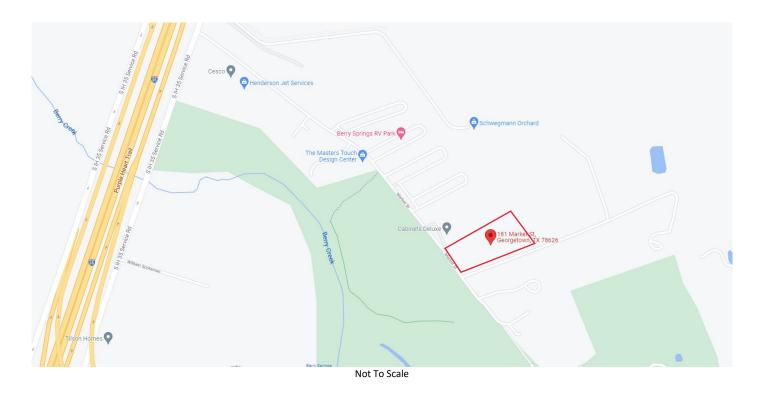
 Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
 San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

- 20. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- 21. No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.



2P CONSULTANTS, LLC 203 E. Main Street, Suite 204 Round Rock, Texas 78664 512-344-9664 TBPE FIRM #F-19351

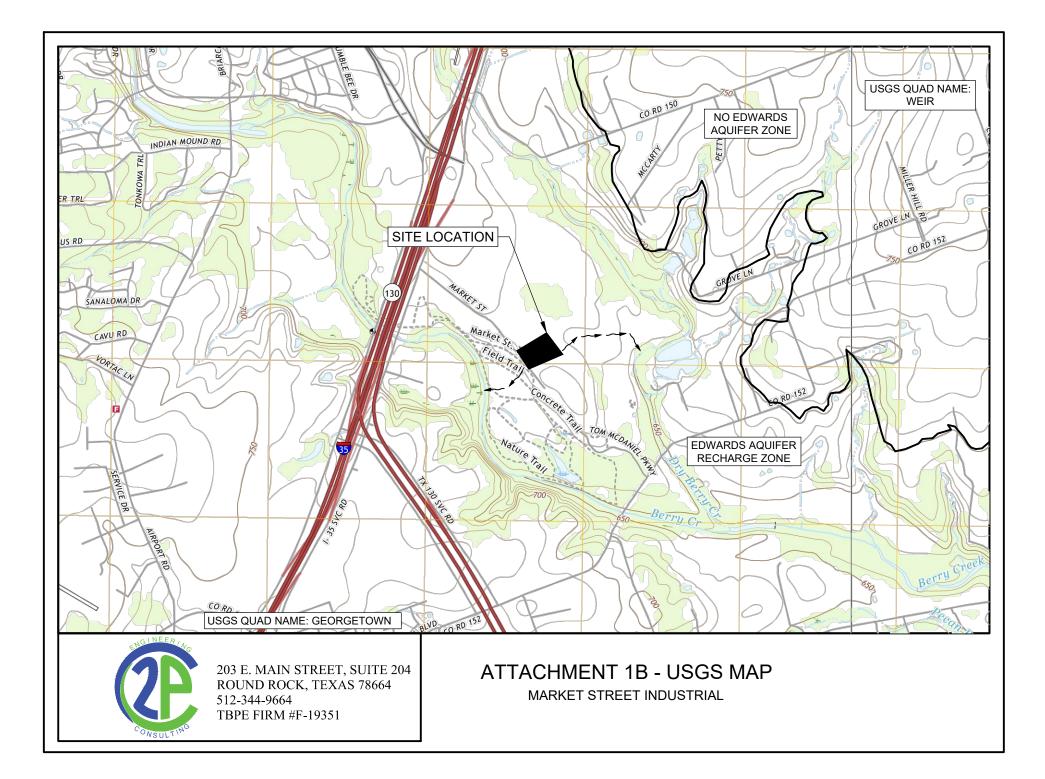
Attachment 1A – Road Map



Site Address: 181 Market Street, Georgetown, Texas 78626

Directions from 2P Consultants:

- Head West on E Main St toward Mays St
- Continue onto W Main St
- Turn right onto S Blair St
- At the traffic circle, take the 2nd exit onto Round Rock Ave
- Turn right onto N Interstate 35 Frontage Rd
- Slight left to merge onto I-35 N
- Merge onto I-35 N
- Take exit 265 toward TX-130/Austin
- Merge onto N Interstate 35 Frontage Rd
- Turn right onto Market St
- Site will be to your left





2P CONSULTANTS, LLC 203 E. Main Street, Suite 204 Round Rock, Texas 78664 512-344-9664 TBPE FIRM #F-19351

Attachment 1C – Project Description

The proposed Market Street Industrial is located at 181 Market St, Georgetown, Texas 78626. The development site is comprised of a single lot and is in Williamson County within the Extraterritorial Jurisdiction of the City of Georgetown, Texas. Legal description for this property is S6593 – Resource Commercial Park, Lot 12, acres 4.9471.

The existing site is vacant with no buildings and no trees greater than 8" were observed onsite. There are no existing access drives to the property. Impervious cover within the existing property is due to a turnaround easement resulting in approximately 633 sf, or 0.3% of impervious cover on the 4.9471-acre site.

The proposed site improvements include the construction of a 16,200 square foot industrial manufacturing and warehousing facility, two 15,000 square foot industrial manufacturing and warehousing facilities, and two 4,950 square foot industrial manufacturing and warehousing facilities, as well as the associated drive aisles, parking areas, stormwater facilities, and utilities. The proposed development will create approximately 120,797 sf (2.77 ac) of impervious cover to the site, or 56.02% of the total site.

The proposed increase in impervious cover will be treated by a proposed detention and water quality pond utilizing a Batch Detention System. The Batch Detention System will provide 91% Total Suspended Solids (TSS) removal efficiency. The pond has been sized to remove 80% of the TSS in accordance with the Texas Commission on Environmental Quality (TCEQ) Technical Guidance and an additional removal of 5% of the TSS as required by the City of Georgetown. The site is designed in such a way that a majority of the proposed improvements will drain across the surface toward the proposed detention and water quality pond located on the northeast corner of the property.

The proposed buildings will be served by 6" wastewater lines that feed into a 6" wastewater main that conveys the wastewater to a proposed septic field.

Section II Geologic Assessment Form (TCEQ-0585)

Geologic Assessment of 181 Market Street, 5-Acre Tract, Georgetown, Williamson County, Texas

DECEMBER 2021

PREPARED FOR 2P Consultants, LLC

PREPARED BY

SWCA Environmental Consultants

Texas Board of Professional Geoscientists, Firm Registration No. 50159

GEOLOGIC ASSESSMENT OF 181 MARKET STREET, 5-ACRE TRACT, GEORGETOWN, WILLIAMSON COUNTY, TEXAS

Prepared for

2P Consultants, LLC 203 E. Main Street, Suite 204 Round Rock, Texas 78664

Prepared by

Philip Pearce, P.G.



SWCA Environmental Consultants Texas Board of Professional Geoscientists, Firm Registration No. 50159 4949 N. Loop 1604 W, Suite 235 San Antonio, Texas 78249 www.swca.com

SWCA Project No. 70956

December 2021

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1 INTRODUCTION

SWCA Environmental Consultants (SWCA) was contracted to conduct a geologic assessment of a 5-acre commercial tract of land at 181 Market Street in Georgetown, Williamson County, Texas the Project Site. The Project Area is a grassy field with a few small isolated trees located at the end of a cul-de-sac in a commercial/industrial area adjacent to the east side of Berry Springs Park and Preserve. The Project Site is wholly within the limits of the Edwards Aquifer Recharge Zone (EARZ).

This narrative geologic assessment accompanies the Texas Commission on Environmental Quality (TCEQ) geologic assessment form TCEQ-0585 completed for the Project in Round Rock, Williamson County, Texas (**Figure 1**).

2 METHODOLOGY

Prior to conducting fieldwork, SWCA Environmental Consultants (SWCA) scientists studied documents pertaining to known caves within the vicinity of the Project Site in an attempt to gather information related to documented caves (unpublished data related to SWCA et al. 2008 and other area projects). SWCA also examined aerial photography, mapped fault lines, and Project Area geology prior to fieldwork commencement.

SWCA scientists conducted a field survey on December 14, 2021. The pedestrian survey was completed by walking parallel transects spaced approximately 50 feet apart as directed by the TCEQ in the *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones* (Rev. 10-01-04). Closer spacing was used where vegetation inhibited clear observation. The SWCA scientist carefully examined all potential karst features for subsurface extent; including depressions, holes, and animal burrows. SWCA used several techniques for this effort, including probing with a digging implement to determine the thickness and consistency of fill material and feeling for air flow, which may indicate the presence of a sub-surface void space. Other techniques included recording notable feature characteristics, such as vegetation types or a semi-circular burrow mound produced by small mammal activity.

3 RESULTS

3.1 Project Overview

The Project Site lies within the Recharge Zone of the Northern Segment of the Edwards Aquifer (TCEQ 2021). The Project Site lies along a divide between Berry Creek to the south and Dry Berry Creek to the north. The Project Site elevation is approximately 690 feet above mean sea level.

3.2 Geology

The Project Site lies within an area of Quaternary-age Terrace Deposits that overlie either the Del Rio Clay or Georgetown Formation. The geology of the Project Site has been mapped most recently at a useful scale by Collins (1997) and SWCA finds this interpretation of the geology to be generally accurate. A stratigraphic column is included in **Appendix A**, **Attachment B**.

The Project Area occurs along the Balcones Fault Zone (BFZ) within the Edwards Aquifer Recharge Zone (EARZ). Structural down-warping occurred with the Gulf of Mexico's ancestral formation during the

middle Tertiary. The earth's crust was stretched in response and the BFZ formed along a zone of weakness, which currently marks the boundary between the Edwards Plateau and the Gulf Coastal Plain in central Texas. This zone is characterized by a series of northeast-trending, predominantly normal, nearly vertical, en echelon faults. No faults cross the Project Site, but a concealed fault is present to the northwest of the Project Site (Collins 1997).

Recharge into the Edwards Aquifer primarily occurs in areas where the Edwards Limestone and Georgetown Formation are exposed at the surface. Most recharge is from direct infiltration via precipitation and streamflow loss. Recharge occurs predominantly along secondary porosity features such as faults, fractures, and karst features (caves, solution cavities, sinkholes, etc.). Karst features commonly form along joints, fractures, and bedding plane surfaces in the Edwards Limestone and Georgetown Formation.

3.3 Soils

The Natural Resources Conservation Service (2021) identifies the following six soil units within the Project Site (**Table 1**):

Soil Name	Hydric	Hydrologic Soil Group*	Drainage Class	Thickness (inches)
SvB: Sunev silty clay loam, 1 to 3 percent slopes	No	В	Well drained	72

Table 1. Project Area Soils Detail

Data Source: Natural Resources Conservation Service 2021.

* Group D – Soils had very slow infiltration rates when thoroughly wetted and exhibit the highest potential for runoff.

All Project Area soil types are considered "B" hydrologic soil group classification, which have moderately low runoff potential when thoroughly wet.

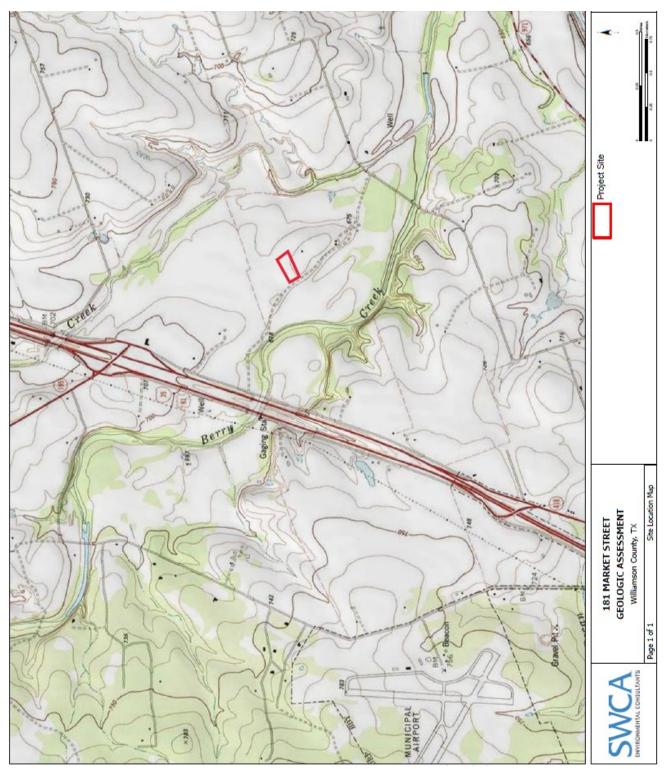


Figure 1. Project Area location map.

3.4 Site Hydrogeologic Assessment

SWCA identified one geologic feature within the Project Site, which is depicted on the geologic map (Appendix A, Attachment D). The features are described in the geologic assessment table (Appendix A, Attachment A).

Feature F-1 is a non-karst closed depression that appears to have been formed by an animal burrowing beneath roots of a small tree that has been cut down to ground level. Fine infilling is present. No bedrock is present. Due to the non-karst origin and thick soil, the probability of rapid infiltration is low.

Due to the lack of sensitive recharge features, the overall potential for fluid migration to the Edwards Aquifer within the Project Site appears relatively low compared to background infiltration rates. Based on water levels measured in a nearby water well, the potentiometric surface of the Edwards Aquifer is approximately 15-20 feet below the ground surface in the vicinity of the Project Site (**Table 2**)(Texas Water Development Board 2021).

Water Well	Depth to Water (feet)	Elevation	Year Measured	Distance from Project (feet)				
58-19-619	16	675	1985	350				
58-19-619	22	669	2005	350				

Source: Texas Water Development Board 2021

Within the vicinity of the Project Site, the Georgetown Formation, which overlies the Edwards Limestone, generally acts as an upper confining unit of the Edwards Aquifer, which is under artesian pressure. Water within the Edwards Aquifer rises along faults and discharges as Berry Springs, which is a major discharge point of the Northern Segment of the Edwards Aquifer, in the adjacent Berry Springs Park and Preserve. The water level measured in nearby well 58-19-619 is likely the potentiometric surface elevation of the Edwards Aquifer that has risen from the Edwards Limestone up within the level of the overlying Georgetown Formation or Del Rio Clay, which are concealed beneath alluvial terrace deposits.

No springs or streams were identified within the limits of the Project Site.

4 **REFERENCES**

- Collins, E.W. 1997. Geologic map of the Weir quadrangle, Texas. University of Texas at Austin, Bureau of Economic Geology Open-File Map OFM0096, scale 1:24,000.
- Natural Resource Conservation Service (NRCS). 2021. Soil Survey Staff, Natural Resources Conservation Service, U.S. Department of Agriculture. Web Soil Survey. Available at: <u>http://websoilsurvey.nrcs.usda.gov/</u>. Accessed December 2021.
- SWCA Environmental Consultants (SWCA), Smith, Robertson, Elliott, Glen, Klein, & Bell, LLP, Prime Strategies, Inc., Texas Perspectives, Inc. 2008. Williamson County Regional Habitat Conservation Plan. Prepared for Williamson County Conservation Foundation and The Honorable Lisa Birkman.
- Texas Commission on Environmental Quality (TCEQ). 2021. Edwards Aquifer Viewer v3.8. Available at: <u>http://tceq.maps.arcgis.com/apps/webappviewer/index.html?id=2e5afa3ba8144c30a49d3dc1ab49</u> edcd. Accessed December 2021.
- Texas Commission on Environmental Quality. (TCEQ). Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones. TCEQ-0585-Instructions (Rev. 10-01-04).
- Texas Water Development Board (TWDB). 2021. Water Data Interactive, interactive GIS database. Available at: <u>http://www2.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer</u>. Accessed December 2021.

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APPENDIX A

Texas Commission on Environmental Quality (TCEQ) Forms

Geologic Assessment

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Geologist: <u>Philip C. Pearce,</u> <u>P.G.</u>

Telephone: 210.877.2847

Date:

Fax: 210.877.2848

Representing: <u>SWCA Environmental Consultants (TBPG Firm Registration #50159)</u> (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

Regulated Entity Name: 181 Market Street, 5-Acre Tract

Project Information

- 1. Date(s) Geologic Assessment was performed: December 14, 2021
- 2. Type of Project:

\times	WPAP
\times	SCS

AST
UST

3. Location of Project:

\leq	Rech	nar	ge	Zone

Transition Zone

Contributing Zone within the Transition Zone



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

Table 1 - Soil Units, InfiltrationCharacteristics and Thickness

Soil Name	Group*	Thickness(feet)
SvB: Sunev silty clay loam, 1 to 3 percent		
slopes	В	6

Soil Name	Group*	Thickness(feet)					

- * Soil Group Definitions (Abbreviated) A. Soils having a high infiltration rate when thoroughly wetted.
 - B. Soils having a moderate infiltration rate when thoroughly wetted.
 - C. Soils having a slow infiltration rate when thoroughly wetted.
 - D. Soils having a very slow infiltration rate when thoroughly wetted.
- 6. Attachment B Stratigraphic Column. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
- 7. X Attachment C Site Geology. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
- 8. Attachment D Site Geologic Map(s). The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

Applicant's Site Plan Scale: $1'' = \underline{30}'$ Site Geologic Map Scale: $1'' = \underline{30}'$ Site Soils Map Scale (if more than 1 soil type): $1'' = \underline{NA}'$

9. Method of collecting positional data:

Global Positioning System (GPS) technology.

Other method(s). Please describe method of data collection:

- 10. The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
- 11. Surface geologic units are shown and labeled on the Site Geologic Map.
- 12. Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.

Geologic or manmade features were not discovered on the project site during the field investigation.

- 13. The Recharge Zone boundary is shown and labeled, if appropriate.
- 14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
 - There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
 - The wells are not in use and have been properly abandoned.

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

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

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

Administrative Information

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

ATTACHMENT A

Geologic Assessment Table

GEOLOGIC ASSESSMENT TABLE				PROJECT NAME: 181 Market Street, 5-Acre Tract																
	LOCATION				FEATURE CHARACTERISTICS								EVALUATION			PHY	SICAL	SETTING		
1A	1B *	1C*	2A	2B	3		4		5	5A	6	7	8A	8B	9	,	10		1	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DI	MENSIONS (F	EET)	TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENS	ITIVITY		ENT AREA RES)	TOPOGRAPHY
						Х	Y	Z		10						<40	<u>>40</u>	<1.6	<u>>1.6</u>	
S-1	30°41'22.25"	97°38'44.13"	CD	5	Ked	3	3	0.5	-	0			F	5	10	Х		Х		Hillside
┣───																				
* DATUN	I: <u>NAD 83</u>		B .	4																
2A TYPE		TYPE			2B POINTS	1					8A IN	IFILLING								
С	Cave 30					N None, exposed bedrock														
SC	Solution cavity				20		C Coarse - cobbles, breakdown, sand, gravel													
SF	Solution-enlarge	d fracture(s)			20		O Loose or soft mud or soil, organics, leaves, sticks, dark colors													
F	Fault 20						F Fines, compacted clay-rich sediment, soil profile, gray or red colors													
0	Other natural bedrock features 5						V Vegetation. Give details in narrative description													
MB	Manmade feature in bedrock 30						FS Flowstone, cements, cave deposits													
SW	Swallow hole				30		х	Other n	naterials											
SH	Sinkhole				20															
CD	Non-karst closed	l depression			5				1:	2 TO	POGRA	PHY								
Z	Z Zone, clustered or aligned features 30						Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed													

I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field.

My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Sheet 1 of 1

Date

SINTE OF TEXAS 12-19-21 Philip C. Peerce B Geology 691 1000//CE NSED CUI

TCEQ-0585-Table (Rev. 10-01-04)

ATTACHMENT B

Stratigraphic Column

Stratigraphic Column

		Navarro and Taylor Groups, undivided; 600 feet thick				
Upper Cretaceous		Austin Group; 325–420 feet thick				
	Upper Confining Units	Eagle Ford Group; 25–65 feet thick				
Uppe		Buda Limestone; 40–50 feet thick				
		Del Rio Clay; 40–70 feet thick				
		Georgetown Formation; 30–80 feet thick				
sno	Edwards Aquifer	Edwards Limestone; Up to 200 feet thick				
retace		Comanche Peak Formation; 80 feet thick				
Lower Cretaceous		Walnut Formation; Up to 120 feet thick				
	Lower Confining Units Upper member of Glen Rose Limestone; 500 fee					

Note: The shaded areas represent the lithology that outcrops in the Project Area.

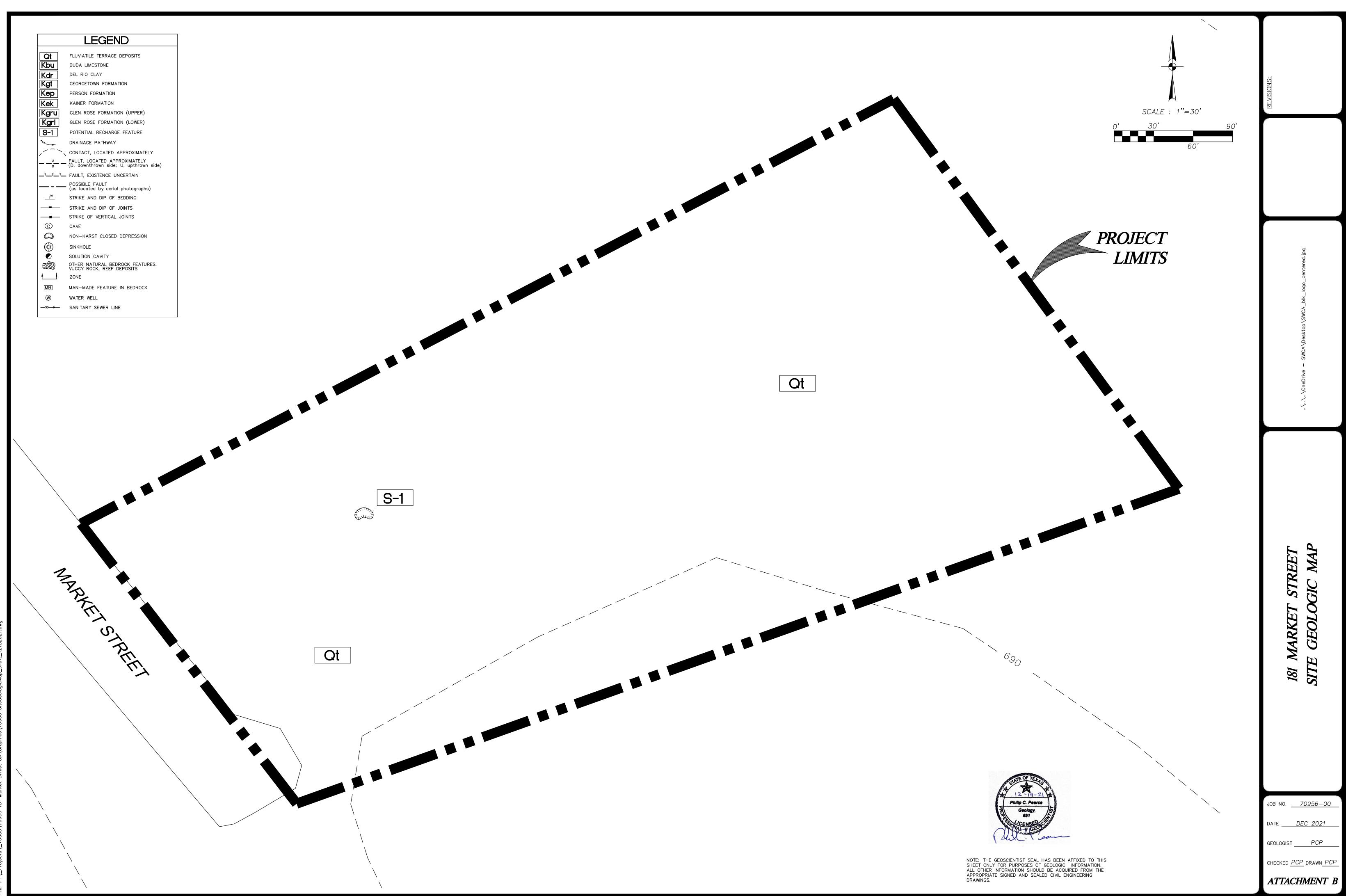
ATTACHMENT C

Narrative Description of Site Geology

PLEASE REFER TO SECTION 3.2 OF THIS REPORT FOR GEOLOGIC NARRATIVE DESCRIPTION

ATTACHMENT D

Site Geologic Map



Date: Dec 19, 2021, 4:47pm User ID: PPearce File: P: _Projects_70000\70956 181 Market Street GA\Graphics\70956 SiteGeologicMap_Draft_12182021.dwg

ATTACHMENT E

Photographic Log



Photograph 1. Photograph shows Feature F-1.



Photograph 2. Photograph of Feature F-1.

Section III Water Pollution Abatement Plan (TCEQ-0584)

Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

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

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

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

Signature

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

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

Date: October 10, 2022

Signature of Customer/Agent:

Ent A

Regulated Entity Name: Market Street Industrial

Regulated Entity Information

- 1. The type of project is:
 - Residential: Number of Lots:
 - Residential: Number of Living Unit Equivalents: _____ Commercial
 - \square Industrial

 - __Other:____
- 2. Total site acreage (size of property): <u>4.9471</u>
- 3. Estimated projected population: 60
- 4. The amount and type of impervious cover expected after construction are shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	56100	÷ 43,560 =	1.28
Parking	22,110	÷ 43,560 =	0.51
Other paved surfaces	42587	÷ 43,560 =	0.98
Total Impervious Cover	120797	÷ 43,560 =	2.77

Table 1 - Impervious Cover Table

Total Impervious Cover 2.77 ÷ Total Acreage 4.9471 X 100 = 56.06% Impervious Cover

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

For Road Projects Only

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

7. Type of project:

TXDOT road project.

County road or roads built to county specifications.

City thoroughfare or roads to be dedicated to a municipality.

Street or road providing access to private driveways.

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

```
Concrete
Asphaltic concrete pavement
Other:
```

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

Width of R.O.W.: _____ feet. L x W = _____ $Ft^2 \div 43,560 Ft^2/Acre = _____ acres.$

10. Length of pavement area: _____ feet.

Width of pavement area: _____ feet.L x W = ____ $Ft^2 \div 43,560 Ft^2/Acre = ____ acres.Pavement area _____ acres \div R.O.W. area _____ acres x 100 = ____% impervious cover.$

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

A rest stop will not be included in this project.

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

% Domestic	Gallons/day
<u>100 %</u> Industrial	<u>19,447</u> Gallons/day
% Commingled	Gallons/day
TOTAL gallons/day <u>19,447</u>	

15. Wastewater will be disposed of by:

imes	On-Site Sewage	Facility	(OSSF/Septio	c Tank):
------	-----------------------	----------	--------------	----------

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

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

Sewage Collection System (Sewer Lines):

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

The SCS was previously submitted on_____.

-] The SCS was submitted with this application.
- The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.

The sewage collection system will convey the wastewater to the _____ (name) Treatment Plant. The treatment facility is:

Existing.
Proposed

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

Site Plan Requirements

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

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

Site Plan Scale: 1" = <u>30</u>'.

18. 100-year floodplain boundaries:

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

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

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): <u>FEMA Firm Map #48491C0285F dated 12/20/2019</u>

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

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

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

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

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

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

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

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

- 21. Geologic or manmade features which are on the site:
 - All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.
 - No sensitive geologic or manmade features were identified in the Geologic Assessment.

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

- 22. The drainage patterns and approximate slopes anticipated after major grading activities.
- 23. 🖂 Areas of soil disturbance and areas which will not be disturbed.
- 24. 🖂 Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25. \square Locations where soil stabilization practices are expected to occur.
- 26. Surface waters (including wetlands).

🖂 N/A

- 27. Locations where stormwater discharges to surface water or sensitive features are to occur.
 - There will be no discharges to surface water or sensitive features.
- 28. 🔀 Legal boundaries of the site are shown.

Administrative Information

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



203 E. Main Street, Suite 204 Round Rock, Texas 78664 512-344-9664 TBPE FIRM #F-19351

Attachment 3A – Factors Affecting Surface Water Quality

The factors affecting water quality as a result of proposed site improvements are as follows:

The proposed site improvements include the construction of a 16,200 square foot industrial manufacturing and warehousing facility, two 15,000 square foot industrial manufacturing and warehousing facilities, and two 4,950 square foot industrial manufacturing and warehousing facilities, as well as the associated drive aisles, parking areas, stormwater facilities, and utilities. The proposed development will create approximately 120,797 sf (2.77 ac) of impervious cover to the site, or 56.02% of the total site. The proposed increase in impervious cover will be treated by a proposed detention and water quality pond on the northeast corner of the site utilizing a Batch Detention System. The site is designed to have the majority of the stormwater runoff flow over the surface into the pond. The stormwater will then leave the pond and be conveyed offsite through a perforated HDPE pipe that acts as a level spreader.

The proposed improvements will facilitate large, industrial vehicular traffic to the site and will cause an increase in Total Suspended Solids (TSS). The vehicular traffic which will be visiting the site will naturally cause an increase in TSS due to unforeseen leaks in vehicles which can include, but are not limited to: brake fluid, hydraulic fluid, antifreeze, oil, gasoline, and diesel fuel. The surface water quality will be affected negatively by this increase in TSS, however, this water quality will be restored to abide by TCEQ (80% TSS Removal) and City of Georgetown's (85% TSS Removal) requirements with the proposed Batch Detention Basin.



203 E. Main Street, Suite 204 Round Rock, Texas 78664 512-344-9664 TBPE FIRM #F-19351

Attachment 3B – Volume and Character of Stormwater

The volume and character of stormwater at the project site for both existing and post-development conditions are as follows:

The existing site is undeveloped with only 632.7sf of impervious cover onsite due to a paved turnaround area in the southwest corner. Land cover consists of grassland in good condition with no trees larger than 8" observed onsite. The soil consists of Sunev and Altoga silty clay loam soils which are classified as Hydrologic Soil Group B, and, according to Table 3-6 of the City of Georgetown Drainage Criteria Manual, the surface cover of grassland in good condition with the underlying Hydrologic Soil Group of B merits a runoff curve number of 61.

Two drainage basins were defined from the existing topography onsite, namely an existing ridge running north to south near the western property boundary. The first basin is 0.904 acres and captures runoff west of the ridge including approximately 620sf of offsite area to the south and approximately 1,767sf of offsite area to the northwest and drains offsite to the west toward Market Street; 531.8sf of this offsite area is impervious. This basin contains 1,164.5sf of impervious cover or 2.96% of the drainage basin. Thus, the Composite Curve Number turns out to be 62.09 for the first drainage basin. The second basin is 4.505 acres and captures runoff east of the ridge including approximately 17,504sf of offsite area to the south and drains offsite to the northeast. This drainage area contains no impervious cover, therefore, the Composite Curve Number for this basin remains 61. Combined, the existing site drainage basins capture an offsite area of 0.453 acres. Refer to the Existing Drainage Area Map to see the existing drainage basins. See the table below for a summary of the existing basin information.

	Existing Conditions Drainage Basin Information							
Basin	Area (SF)	Area (AC)	Area (MI²)	IC (SF)	IC (%)	Composite Curve Number	ToC	Lag
1	39,375.66	0.903941	0.0014124	1,164.50	2.96%	62.09	12.2	7.3
2	196,258.94	4.505485	0.0070398	0.00	0.00%	61.00	10.6	6.4

The proposed site improvements include the construction of a 16,200 square foot industrial manufacturing and warehousing facility, two 15,000 square foot industrial manufacturing and warehousing facilities, and two 4,950 square foot industrial manufacturing and warehousing facilities, as well as the associated drive aisles, parking areas, stormwater facilities, and utilities. The proposed development will create approximately 120,797 sf (2.77 ac) of impervious cover to the site, or 56.02% of the total site.

Three post-developed drainage basins were defined based on the proposed improvement grading while maintaining the existing points of offsite discharge. The first basin contains 0.702 acres of area and resembles the first existing basin capturing runoff from everything west of the proposed buildings as well as some of the main drive aisle; it also captures runoff from the same offsite area as the first existing drainage basin. The impervious cover in this basin is increased to 9,298.36sf or 30.39% of the basin giving it a Composite Curve Number of 72.25. The second basin is 4.130 acres in size and captures the runoff from the majority of the site improvements and drains northeast to the Batch Detention Basin. This central basin also captures the runoff from approximately 13,189sf of offsite area to the south. The impervious cover in the second basin is 110,674.64sf or 61.53% of the basin which gives it a Composite Curve Number of 83.76. The third basin is 0.577 acres in size and captures the runoff from the remaining area that cannot drain to the proposed detention basin in the northeast corner; it

stretches along the north and east site boundaries, captures approximately 4,380sf of offsite runoff from the south flowing onto the southeast corner of the site, and drains eastward offsite. This basin contains no impervious cover; therefore, the Composite Curve Number remains 61. Refer to the Proposed Drainage Area Map to see the proposed drainage basins and proposed drainage basin information. See the table below for a summary of the developed conditions basin information.

	Developed Conditions Drainage Basin Information							
Basin	Area (SF)	Area (AC)	Area (MI ²)	IC (SF)	IC (%)	Composite Curve Number	ToC	Lag
1	30,592.05	0.702297	0.0010973	9,298.36	30.39%	72.25	12.3	7.4
2	179,882.95	4.129544	0.0064524	110,674.64	61.53%	83.76	9.8	5.9
3	25,160.56	0.577607	0.0009025	0.00	0.00%	61.00	7.4	4.4

The second post-developed basin drains north to the proposed Batch Detention Basin to be constructed in the northeast corner of the property where it will be treated through the use of a Batch Detention System that will provide 91% TSS removal efficiency, in general accordance with TCEQ Technical Guidance on Best Management Practices. The proposed Batch Detention Basin is sized for adequate stormwater treatment based on the TCEQ calculations which include the required TSS removal of 80% as well as the additional 5% TSS removal requirement of the City of Georgetown.



203 E. Main Street, Suite 204 Round Rock, Texas 78664 512-344-9664 TBPE FIRM #F-19351

Attachment 3C – Suitability Letter from Authorized Agent

A suitability letter from the Williamson County Engineer's Office signed by Christopher Moreno can be found below.

Department of Infrastructure County Engineer's Office 3151 SE Inner Loop, Ste B Georgetown, TX 78626 T: 512.943.3330 F: 512.943.3335

J. Terron Evertson, PE, DR, CFM



April 19, 2023

RE: 181 Market Street Georgetown, TX 78626 S6593 - Resource Commercial Park, Lot 12, ACRES 4.9471

The above referenced property is located within the Edwards Aquifer Recharge Zone.

Based on the surrounding subdivisions and the soil survey for Williamson County and planning material received, this office is able to determine that the soil and site conditions of this lot is suitable to allow the use of on-site sewage facilities (OSSF). It should be noted that this office has not actually studied the physical properties of this site. Site specific conditions such as OSSF setbacks, recharge features, drainage, soil conditions, etc..., will need taken into account in planning any OSSF.

These OSSF's will have to be designed by a professional engineer or a registered sanitarian. An Edwards Aquifer protection plan shall be approved by the appropriate TCEQ regional office before an authorization to construct an OSSF may be issued. The owner will be required to inform each prospective buyer, lessee or renter of the following in writing:

- That an authorization to construct shall be required before an OSSF can be constructed in the subdivision;
- That a notice of approval shall be required for the operation of an OSSF;
- Whether an application for a water pollution abatement plan as defined in Chapter 213 has been made, whether it has been approved and if any restrictions or conditions have been placed on the approval.

If this office can be of further assistance, please do not hesitate to call.

Sincerely

Christoper Moreno, OS 35962 Williamson County - OSSF



203 E. Main Street, Suite 204 Round Rock, Texas 78664 512-344-9664 TBPE FIRM #F-19351

Attachment 3D – Exception to the Required Geologic Assessment

An exception to the required Geologic Assessment is not being requested for this project.

This section is not applicable to this project.

Section IV Temporary Stormwater Section (TCEQ-0602)

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Michael Easton Mundine

Date: October 10, 2022

Signature of Customer/Agent:

Regulated Entity Name: Market Street Industrial

Project Information

Potential Sources of Contamination

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

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

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

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

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

Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.

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

Sequence of Construction

5. Attachment C - Sequence of Major Activities. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.

For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

- For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: <u>Berry Creek</u>

Temporary Best Management Practices (TBMPs)

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

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

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

There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.

- 11. Attachment H Temporary Sediment Pond(s) Plans and Calculations. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
 - 🛛 N/A
- 12. Attachment I Inspection and Maintenance for BMPs. A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
- 13. All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
- 14. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
- 15. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
- 16. 🖂 Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

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

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

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

Administrative Information

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



Attachment 4A – Spill Response Actions

No spills of hydrocarbons or hazardous substances are expected. However, in the event such an incidence does occur, the contractor should carefully follow the following TCEQ guidelines:

Cleanup:

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

Minor Spills:

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

Semi-Significant Spills:

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

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

Significant/Hazardous Spills:

From any event, the Reportable Quantity (RQ) = for high toxic materials the RQ>25 gallons. For petroleum/hydrocarbon liquids, spills the RQ>250 gallons (on land) or that which creates "a sheen" on water. Only certified Hazmat teams will be responsible for handling the material at the site.

For significant or hazardous spills that are in reportable quantities:

- Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site. Additionally, in the event of a hazardous material spill, local Williamson county and/or city of Georgetown police, fire and potentially EMS should be contacted in order to initiate the hazardous material response team.
- 2. For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110, 119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- 3. Notifications should first be made by telephone and followed up with a written report of which one copy is to be kept onsite in the report binder and one copy provided to the TCEQ.
- 4. The services of a spill contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- 5. Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

More information on spill rules and appropriate responses is available on the TCEQ website at:

http://www.tceq.state.tx.us/response/spills.html



Attachment 4B – Potential Sources of Contamination

No particular activity or process during construction is anticipated to present a significant risk of being a potential source of contamination. However, during regular construction operations, several common and minor risks of contamination are anticipated. Should the unforeseeable mishap occur during construction or regular operation of the facility, the contractor shall follow the guidelines set forth in "Attachment 4A – Spill Response Actions."

Potential sources of sediment to stormwater runoff:

- Clearing and grubbing
- Grading and excavation
- Vehicle tracking
- Topsoil stripping and stockpiling
- Landscaping

Potential pollutants and sources, other than sediment, to stormwater runoff:

- Combined Staging Area small fueling, minor equipment maintenance, sanitary facilities.
- Materials Storage Area solvents, adhesives, paving materials, aggregates, trash, etc.
- Construction Activities paving, concrete pouring
- Concrete Washout Area

Potential Onsite Pollutants:

- Fertilizer
- Concrete
- Glue, adhesives
- Gasoline, diesel fuel, hydraulic fluids, antifreeze
- Sanitary toilets



Attachment 4C – Sequence of Major Activities

- 1. Temporary erosion and sedimentation controls are to be installed as indicated on the approved site plan and in accordance with the stormwater pollution prevention plan (SWPPP) that is required to be posted on the site. Approximately 4.95 acres will be disturbed during this activity.
- 2. The environmental project manager, and/or site supervisor, and/or designated responsible party, and the general contractor will follow the storm water pollution prevention plan (SWPPP) posted on the site. Temporary erosion and sedimentation controls will be revised, if needed, to comply with city inspectors' directives, and revised construction schedule relative to the water quality plan requirements and the erosion and sedimentation control plan.
- 3. Temporary erosion and sedimentation controls will be inspected and maintained in accordance with the stormwater pollution plan (SWPPP) posted on the site.
- 4. Begin site clearing and demolition activities. Approximately 4.95 acres will be disturbed during this activity.
- 5. Complete construction and begin re-vegetation of the site.
- 6. Upon completion of the site construction and re-vegetation of a project site, the design engineer shall submit an engineer's letter of concurrence to the City of Georgetown indicating that construction, including revegetation, is complete and in substantial conformity with the approved plans. After receiving this letter, a final inspection will be scheduled by the appropriate city inspector.
- 7. After construction is complete and all disturbed areas have been re-vegetated per plan to at least 90% established, remove the temporary erosion and sedimentation controls, and complete any necessary final re-vegetation resulting from removal of the controls. Conduct any maintenance and rehabilitation that is needed.



Attachment 4D – Temporary Best Management Practices and Measures

Prior to the commencement of any construction activity whatsoever, the contractor shall install the silt fencing per the Erosion and Sedimentation Control Plan. The silt fencing shall be installed per TCEQ and local requirements. The proposed temporary BMP are intended to control increased TSS from construction activities in the following manner:

- A.) The proposed development receives stormwater runoff from adjacent properties to the north and south: runoff enters the site from the north and drains to the west; stormwater flows onto the site from the south and drains west and east offsite. Stormwater runoff on the property to the east flows away from the site, and runoff from the Market Street R.O.W. flows away from the site.
- B.) The temporary BMPs proposed during construction activities will prevent sediment-laden runoff from pollutant sources listed in 'Attachment 4B Potential Sources of Contamination' from leaving the proposed site. The primary method of controlling sediment-laden stormwater runoff is through silt fencing. The silt fencing will be placed per plan along the downslope edges of the project area.
- C.) With the temporary silt fences in place, no unfiltered stormwater runoff will enter any surface streams or sensitive features.
- D.) The proposed project seeks to honor the natural drainage patterns that currently exist in the proposed project area. There are no known sensitive geologic features on the site. After construction is completed, the site will maintain its current drainage patterns with the stormwater runoff draining mostly to the northeast with some draining to the west.



No temporary sealing of naturally occurring sensitive features on the site are proposed.

This section is not applicable to this project.



Attachment 4F – Structural Practices

The following temporary BMP structural practices will be employed on the site:

- 1. Silt Fence used as barrier protection around the downslope perimeter of the project. The fence retains sediment primarily by retarding flow and promoting deposition on the uphill side of the slope. Runoff is filtered as it passes through the geotextile fabric.
- 2. Concrete Washout Area used to prevent or reduce the discharge of pollutants to stormwater from concrete waste. The concrete washout area is a designated area to wash out wastes into the temporary pit where the concrete can set, be broken up, and the disposed of properly.
- Stabilized Construction Entrance used to provide a stable entrance/exit condition from the construction site and keep mud and sediment off public roads. The stabilized construction entrance is a stabilized pad of crushed stone and should be located at any point traffic will be entering or leaving the construction site from a public right-of-way.
- 4. Contractor Staging Area used as an area for the contractor to store and prepare equipment and materials before using them during the construction phase.

The placement of structural practices in the floodplain has been avoided.



Attachment 4G – Drainage Area Map

See attached Construction Plans for the Existing and Proposed Drainage Area Maps.



There are no temporary sediment ponds or basins proposed as a temporary BMP for stormwater management on this project.

This section is not applicable to this project.



Attachment 4I – Inspection and Maintenance for BMPs

The inspection and maintenance of temporary BMP's will be made according to TCEQ RG-348, <u>Complying</u> with the Edwards Aquifer Rules Technical Guidance on Best Management Practices.

Inspection Personnel:

Inspections shall be conducted by qualified representatives of the contractor acting on behalf of the owner or a designated party if hired separately by the owner. Each operator must delegate authority to the specifically described position or person performing inspections, as provided by 30 TAC 305.128, as an authorized person for signing reports and performing certain activities requested by the director or required by the TPDES general permit. This delegation of authority must be provided to the director of TCEQ in writing and a copy shall be kept along with the signed effective copy of the SWP3.

Inspection Schedule and Procedures - Inspections must comply with the following:

- A.) An inspection shall occur weekly and after any rain event. This inspection should include an inspection of the temporary concrete washout area.
- B.) The authorized party shall inspect all disturbed areas of the site, areas used for storage of materials that are exposed to precipitation, structural control measures, and locations where vehicles enter or exit the site.
- C.) Disturbed areas and areas used for storage of materials that are exposed to precipitation or within limits of the 1% annual chance (100 year) floodplain must be inspected for evidence of, or the potential for, pollutants entering the runoff from the site. Erosion and sediment control measures identified in the plan must be observed to ensure that they are operating correctly. Observations can be made during wet or dry weather conditions. Where discharge locations or points are accessible, they must be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. This can be done by inspecting receiving waters to see whether any signs or erosion or sediment are associated with the discharge location. Locations where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking.
- D.) Based on the results of the inspection, the site description and the pollution prevention measures identified in the plan must be revised as soon as possible after an inspection that reveals inadequacies. The inspection and plan review process must provide for timely implementation of any changes to the plan with 7 calendar days following the inspection.
- E.) An inspection report that summarizes the scope of the inspection, name(s) and qualifications of personnel conducting the inspection, the dates of the inspection, major observations relating to the implementation of the SWP3. Major observations shall include as a minimum location of discharges of sediment or other pollutants from the site, location of BMPs that need to be maintained, location of BMPs that failed to operate as designed or proved inadequate for a particular location, and locations where BMPs are needed. Actions taken as a result of the inspections must be described within, and retained as a part of, the SWP3. Reports must identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the facility or site is in compliance with the SWP3 and the TPDES general permit. The report must be signed by the authorized representative delegated by the operators in accordance with TAC 305.128.

Maintenance and Corrective Actions - Maintenance of erosion control facilities shall consist of the minimum requirements as follows:

- A.) In ongoing construction areas inspect erosion control improvements to confirm facilities are in place and operable. Where facilities have been temporarily set aside or damaged due to construction activity, place facilities in service before leaving job site.
- B.) If weather forecast predicts possibility of rain, check entire facilities throughout site to assure facilities are in place and operable. If job site weather conditions indicate high probability of rain, make special inspection of erosion control facilities.
- C.) After rainfall events review erosion control facilities as soon as site is accessible. Clean berm/swales and other structural facilities. Determine where additional facilities or alternative techniques are needed to control sediment leaving site.
- D.) After portions of site have been seeded, review these areas on regular basis in accordance with project specifications to assure proper watering until grass is established. Reseed areas where grass is not well established.
- E.) Spills are to be handled as specified by the manufacturer of the product in a timely safe manner by personnel. The site superintendent will be responsible for coordinating spill prevention and cleanup operations.
- F.) Concrete trucks will discharge extra concrete or wash out drum only at an approved location on site. Residual product shall be properly disposed of.
- G.) Inspect vehicle entrance and exits for evidence of off-site tracking and correct as needed.
- H.) If sediment escapes the site, the contractor where feasible and where access is available shall collect and remove sedimentation material by appropriate non-damaging methods. Additionally, the contractor shall correct the condition causing discharges.
- I.) If inspections or other information sources reveal a control has been used incorrectly, or that a control is performing inadequately, the contractor must replace, correct or modify the control as soon as practical after discovery of the deficiency.

Silt Fence – Inspection and maintenance guidelines for silt fences are as follows:

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

Stabilized Construction Entrance – Inspection and maintenance guidelines for the stabilized construction entrance are as follows:

- A.) The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.
- B.) All sediments spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.
- C.) When necessary, wheels should be cleaned to remove sediment prior to entrance onto public rights-of-way.
- D.) When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
- E.) All sediment should be prevented from entering any storm drain, ditch, or water course by using approved methods.

Concrete Washout Area – Inspection and maintenance guidelines for the concrete washout area are as follows:

- A.) Concrete washout areas should be located at least 50 feet from sensitive features, storm drains, open ditches, or water bodies.
- B.) Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
- C.) Plastic lining material should be a minimum of 10 mil in polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.
- D.) When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of. Materials sued to construct temporary concrete washout facilities should be removed from the site of the work and disposed of. Holes, depressions, or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.



Attachment 4J – Schedule of Interim and Permanent Soil Stabilization Practices

Prior to Disturbance – Install all temporary erosion and sedimentation control features.

During Construction – Inspect and maintain all temporary erosion and sedimentation control structures per TCEQ regulations.

After Completion of Permanent Erosion and Sediment Controls – Stabilize and restore all areas disturbed during construction. Permanent seeding will be applied immediately after the final design grades are achieved on portions of the site but no later than 14 days after construction activities have permanently ceased. After the entire site is stabilized, any sediment that has accumulated will be removed and hauled off-site for disposal. Construction debris, trash and temporary BMPs including silt fences, material storage areas, sanitary toilets, etc.) will also be removed and any areas disturbed during removal will be seeded immediately.

Section V Permanent Stormwater Section (TCEQ-0600)

Permanent Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

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

Date: October 10, 2022

Signature of Customer/Agent

Carlos As

Regulated Entity Name: Market Street Industrial

Permanent Best Management Practices (BMPs)

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

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



- 2. These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
 - The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

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

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

____ N/A

- 4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
 - The site will be used for low density single-family residential development and has 20% or less impervious cover.
 - The site will be used for low density single-family residential development but has more than 20% impervious cover.
 - The site will not be used for low density single-family residential development.
- 5. The executive director may waive the requirement for other permanent BMPs for multifamily residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
 - Attachment A 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
 - The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
 - The site will not be used for multi-family residential developments, schools, or small business sites.
- 6. Attachment B BMPs for Upgradient Stormwater.

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

i	Attachment G - Inspection, Maintenance, Repair and Retrofit Plan. A plan for the nspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
[Prepared and certified by the engineer designing the permanent BMPs and measures Signed by the owner or responsible party
_	 Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit A discussion of record keeping procedures
	N/A
r	Attachment H - Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
	N/A
a a	Attachment I -Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the

creation of stronger flows and in-stream velocities, and other in-stream effects caused

□ N/A

degradation.

Responsibility for Maintenance of Permanent BMP(s)

by the regulated activity, which increase erosion that results in water quality

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

14. The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.

🗌 N/A

15. A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

___N/A



The site will not be used for multi-family residential developments, schools, or small business sites. This project will also have more than 20% impervious cover.

This section is not applicable to this project.



2P CONSULTANTS, LLC 203 E. Main Street, Suite 204 Round Rock, Texas 78664 512-344-9664 TBPE FIRM #F-19351

Attachment 5B – BMPs for Upgradient Stormwater

The proposed development receives upgradient stormwater from neighboring properties to the south and north. The total off-site area which drains onto the proposed development totals 0.456 acres, of which only 0.01 acres is impervious cover.

The portions of southern properties that stormwater flows over are the narrow access portions of flag lots which are grass-covered areas with no existing impervious cover. Thus, the runoff from these properties does not flow over any impervious cover before entering the site. The existing ridge splits this southern drainage into the two existing drainage basins such that the majority flows northeast into the second basin. The proposed basins maintain this drainage pattern so that 620sf of offsite area drains into Drainage Basin #1 and discharges west offsite; 13,189sf of offsite area drains into Drainage Basin #2, flowing across the site improvements into the Batch Detention Basin; and 4,380sf of offsite area drains into Drainage Basin #3 and flows offsite to the east.

About 1,767sf of the neighboring property to the north drains onto the site. This upgradient stormwater sheet flows over about 531.8sf of impervious cover and then sheet flows over grass-covered ground before entering the northwest corner of the site. This runoff that enters the site does not drain across any proposed impervious cover before discharging offsite to the west.

The proposed Batch Detention Basin is used to treat the offsite stormwater that flows over proposed improvements for the development and has been sized accordingly. Refer to "Attachment 5C – BMPs for Onsite Stormwater" for more information on surface drainage features.



2P CONSULTANTS, LLC 203 E. Main Street, Suite 204 Round Rock, Texas 78664 512-344-9664 TBPE FIRM #F-19351

Attachment 5C – BMPs for On-Site Stormwater

In general accordance with the TCEQ Technical Guidance Manual, onsite stormwater BMP's must be designed to remove at least 80% of the increased total suspended solids (TSS) from the proposed project. The City of Georgetown requires an additional 5%, for a minimum requirement of 85% TSS removal. A Batch Detention Basin is proposed for this WPAP. The proposed site drains to the Batch Detention Basin located on the northeast corner of the site.

As described in the Addendum Sheet of "Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices" (TCEQ Approval of Innovative Technology, Section 3.2.17),

"Batch Detention Basins capture and temporarily detain the water quality volume from a storm event using an automated controller and valve. They are intended to serve primarily as settling basins for the solids fraction, and as a means of limiting downstream erosion by controlling peak flow rates during erosive events... Batch detention basins are designed to prevent clogging of the outflow structure and resuspension of captured sediment during a discharge. They also provide enhanced dissolved pollutant removal performance. The batch detention design typically incorporates a non-clogging outflow structure, such as an orifice protected by a trash rack, or a perforated riser pipe protected by riprap."

The three post-developed drainage basins were defined based on the proposed site and pond grading, while relatively maintaining the existing points of offsite discharge. The first proposed drainage basin captures an area of 0.702 acres and drains west to Market Street. The second post-developed basin drains north and is the only basin that drains to the proposed Batch Detention Basin. Capturing an area of 4.130 acres, this second basin has 61.53% impervious cover due to the110,674.64sf of impervious cover from the proposed improvements which makes up 91.62% of the total site impervious cover of 120,796.57sf. The Batch Detention Basin has been sized accordingly to treat the amount of runoff that will flow over the proposed impervious surfaces. The third proposed drainage basin captures an area of 0.578 acres and drains offsite to the east.

The Batch Detention Basin was sized to provide TSS storage for the entire proposed developments. Using the TCEQ Calculation Spreadsheet, the required water volume for this Batch Detention Basin is 20,126 cubic feet. An additional 4,025 cubic feet is required for sediment storage for a total capture volume of 24,151 cubic feet. As designed, the proposed water quality pond provides 24,151 cubic feet of volume at an elevation of 686.15', which will be the rim elevation for the rotating bucket of the SmartBatch System. This capture volume exceeds the volume necessary for the minimum 80% TSS required by TCEQ and the 85% required by the City of Georgetown. The calculations performed using TCEQ's spreadsheet can be found in the following pages.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Additional information is provided for cells with a red triangle in the upper right corn Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will r

1. The Required Load Reduction for the total project:

Calculations from RG-348

Page 3-29 Equation 3.3: L_M = 28.93(A_N x P)

where:

L_{M TOTAL PROJECT} = Required TSS removal result

 A_N = Net increase in impervious a

P = Average annual precipitation

Site Data: Determine Required Load Removal Based on the Entire Project County = Total project area included in plan * = Predevelopment impervious area within the limits of the plan * = Total post-development impervious area within the limits of the plan* = Total post-development impervious cover fraction * = P =	Williamson 4.95 0.02 2.77 0.56 32	acres acres acres inches
L _{M TOTAL PROJECT} =	2550	lbs.
* The values entered in these fields should be for the total project area.		
Number of drainage basins / outfalls areas leaving the plan area =	2	
2. Drainage Basin Parameters (This information should be provided for each	<u>1 Dasin):</u>	
Drainage Basin/Outfall Area No. =	2	
Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area = Post-development impervious area within drainage basin/outfall area = Post-development impervious fraction within drainage basin/outfall area = L _{M THIS BASIN} =	4.13 0.00 2.54 0.62 2351	acres acres acres lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	Batch Detention	System
Removal efficiency =	91 p	ercent

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 3

A _C =	Total On-Site drainage area
A _I =	Impervious area proposed in
A_P =	Pervious area remaining in the
L _R =	TSS Load removed from this

A _C =	4.13	acres
A _I =	2.54	acres
A _P =	1.59	acres
L _R =	2584	lbs

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

where:

Desired $L_{M THIS BASIN}$ =	2550	lbs.

F = **0.99**

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

Rainfall Depth =	3.66	inches
Post Development Runoff Coefficient =	0.43	
On-site Water Quality Volume =	23673	cubic feet

Calculations from RG-348

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

Storage for Sediment = Total Capture Volume (required water quality volume(s) x 1.20) = The following sections are used to calculate the required water quality volu The values for BMP Types not selected in cell C45 will show NA. 7. Retention/Irrigation System	28408 ume(s) for the	cubic feet selected BMP Required in RG
Required Water Quality Volume for retention basin =	NA	cubic feet
Irrigation Area Calculations:		
Soil infiltration/permeability rate = Irrigation area =		in/hr square feet acres
8. Extended Detention Basin System	Designed as I	Required in RG
Required Water Quality Volume for extended detention basin =	NA	cubic feet
9. Filter area for Sand Filters	Designed as I	Required in RG
9A. Full Sedimentation and Filtration System		
Water Quality Volume for sedimentation basin =	NA	cubic feet
Minimum filter basin area =	NA	square feet
Maximum sedimentation basin area = Minimum sedimentation basin area =		square feet square feet
9B. Partial Sedimentation and Filtration System		
Water Quality Volume for combined basins =	NA	cubic feet
Minimum filter basin area =	NA	square feet
Maximum sedimentation basin area = Minimum sedimentation basin area =		square feet square feet
10. Bioretention System	Designed as I	Required in RG
Required Water Quality Volume for Bioretention Basin =	NA	cubic feet
11. Wet Basins	Designed as I	Required in RG
Required capacity of Permanent Pool = Required capacity at WQV Elevation =	NA NA	cubic feet cubic feet



Attachment 5D – BMPs for Surface Streams

No BMPs are proposed to specifically affect surface streams.

The function of the proposed onsite BMPs is to remove TSS from stormwater runoff while retaining natural flow patterns downstream of the site. Therefore, the BMPs proposed for reducing pollutant loads in surface stream are the onsite BMPs and are described in the previous section: "Attachment 5C – BMPs for On-site Stormwater".



2P CONSULTANTS, LLC 203 E. Main Street, Suite 204 Round Rock, Texas 78664 512-344-9664 TBPE FIRM #F-19351

Attachment 5E – Request to Seal Features

The permanent sealing of or diversion of flow from a naturally occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed for any features on this site.

This section is not applicable to this project.



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Attachment 5F – Construction Plans

An electronic copy of the design plans is included with this submittal. Full-sized copies of the construction plans are submitted separately.



203 E. Main Street, Suite 204 Round Rock, Texas 78664 512-344-9664 TBPE FIRM #F-19351

Attachment 5G – Inspection, Maintenance, Repair, and Retrofit Plan

The following are recommended maintenance procedures as outlined in TCEQ's <u>Complying with the Edwards</u> Aquifer Rules: Technical Guidance on Best Management Practices.

Batch Detention Basins:

Batch detention basins may have somewhat higher maintenance requirements than an extended detention basin since they are active stormwater controls. The maintenance activities are identical to those of extended detention basins with the addition of maintenance and inspections of the automatic controller and the valve at the outlet.

Inspections: Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual operation of the valve and controller can be verified. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. The outlet structure and the trash screen should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet(s) as described in previous sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this BMP should be identified and repaired/revegetated immediately.

Mowing: The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.

Litter and Debris Removal: Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed.

Erosion Control: The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the periodic inspections.

Nuisance Control: Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).

Structural Repairs and Replacement: With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.

Sediment Removal: A properly designed batch detention basin will accumulate quantities of sediment over time. The accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can interfere with the level sensor operation. Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.

Logic Controller: The Logic Controller should be inspected as part of the twice-yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

Record Keeping: Records of all inspections and maintenance for the facility shall be recorded and maintained for the water quality facility beginning at startup of the facility. Record keeping shall be detailed to provide type of maintenance or repair made, date of the service, and detail of the extent of the maintenance or repair. The owner or responsible party of the facility is responsible for maintaining the facility as outlined in this plan until such time as another

entity assumes responsibility in writing or ownership of the property is transferred. A copy of the transfer of ownership or responsibility must be filed with the Executive Director of TCEQ within 30-days of the transfer.

12-17-202

Date

10/10/2022

Date

Engineer's Signature

CIVIL ENGINEERING



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Attachment 5H – Pilot-Scale Field Testing Plan

TCEQ's <u>Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices</u> was used to design permanent BMPs and measures for this site.

This section is not applicable to this project.



Attachment 5I – Measures for Minimizing Surface Stream Contamination

BMPs proposed to reduce pollutants in surface streams are discussed in Attachment 5C: "BMPs for Onsite Stormwater."

Peak runoff rates for the existing and proposed drainage areas were determined using HEC-HMS 4.9. Atlas 14 rainfall precipitation data was taken from the Williamson County Subdivision Regulations for a site located over the San Gabriel River Zone. This rainfall data was plugged into HEC-HMS as a 24-hour frequency storm for the 2, 10, 25, 50, and 100-year storm events. The Atlas 14 rainfall precipitation data can be found in the table below.

	Atlas 14 Rainfall Precipitation Data							
Duration	2-YR (in)	10-YR (in)	25-YR (in)	50-YR (in)	100-YR (in)			
5 MIN	0.51	0.757	0.921	1.05	1.19			
15 MIN	1.02	1.51	1.84	2.10	2.37			
1 HOUR	1.88	2.79	3.40	3.88	4.39			
2 HOURS	2.30	3.55	4.43	5.16	5.98			
3 HOURS	2.55	4.02	5.09	6.01	7.06			
6 HOURS	2.98	4.81	6.18	7.38	8.75			
12 HOURS	3.44	5.54	7.12	8.48	10.1			
24 HOURS	3.94	6.30	8.04	9.53	11.2			

Two drainage basins were defined from the existing topography onsite which shows an existing ridge running north to south near the western property boundary. The first basin is 0.904 acres and captures runoff west of the ridge including approximately 620sf of offsite area to the south and approximately 1,767sf of offsite area to the northwest, of which about 531.8sf is impervious, and drains offsite to the west toward Market Street. This basin contains 1,164.50sf of impervious cover or 2.96% of the drainage basin. Thus, the Composite Curve Number turns out to be 62.09. The second basin is 4.505 acres and captures runoff east of the ridge including approximately 17,504sf of offsite area to the south and drains offsite to the northeast. This drainage area contains no impervious cover, therefore, the Composite Curve Number for this basin remains 61. A summary of the existing conditions drainage basin information and the drainage calculations from the HEC-HMS model for the existing conditions are as follows:

	Existing Conditions Drainage Basin Information								
Basin	Area (SF)	Area (AC)	Area (MI ²)	IC (SF)	IC (%)	Composite Curve Number	ToC	Lag	
1	39,375.66	0.903941	0.0014124	1,164.50	2.96%	62.09	12.2	7.3	
2	196,258.94	4.505485	0.0070398	0.00	0.00%	61.00	10.6	6.4	

Existing Conditions Drainage Calculations					
Basin	2-YR (CFS)	10-YR (CFS)	25-YR (CFS)	50-YR (CFS)	100-YR (CFS)
1	0.58	1.70	2.60	3.37	4.21
2	2.73	8.56	13.36	17.46	21.95

Three post-developed drainage basins were defined based on the proposed improvement grading while maintaining the existing points of offsite discharge. The first basin contains 0.702 acres of area and resembles the first existing basin capturing runoff from everything west of the proposed buildings and some of the main drive aisle; it also captures runoff from the same offsite areas as the first existing drainage basin. The impervious cover in this basin is increased to 9,298.36sf or 30.39% of the basin giving it a Composite Curve Number of 72.25. The second basin is 4.130 acres in size and captures the runoff from the majority of the site improvements and drains northeast to the Batch Detention Basin. This central basin also captures the runoff from approximately 13,189sf of offsite area to the south. The impervious cover in the second basin is 110,674.64sf or 61.53% of the basin which gives it a Composite Curve Number of 83.76. The third basin is 0.578 acres in size and captures the runoff from the remaining area that cannot drain to the proposed detention basin in the northeast corner; it stretches along the north and east site boundaries, captures approximately 4,380sf of offsite runoff from the south flowing onto the southeast corner of the site, and drains eastward offsite. This basin contains no impervious cover; therefore, the Composite Curve Number remains 61. A summary of the developed conditions drainage basin information and drainage calculations from the HEC-HMS model for the proposed conditions are as follows:

	Developed Conditions Drainage Basin Information							
Basin	Area (SF)	Area (AC)	Area (MI ²)	IC (SF)	IC (%)	Composite Curve Number	ТоС	Lag
1	30,592.05	0.702297	0.0010973	9,298.36	30.39%	72.25	12.3	7.4
2	179,882.95	4.129544	0.0064524	110,674.64	61.53%	83.76	9.8	5.9
3	25,160.56	0.577607	0.0009025	0.00	0.00%	61.00	7.4	4.4

	Developed Conditions Drainage Calculations						
Basin	2-YR (CFS)	10-YR (CFS)	25-YR (CFS)	50-YR (CFS)	100-YR (CFS)		
1	0.92	1.85	2.55	3.13	3.77		
2	9.64	16.03	20.63	24.37	28.36		
3	0.41	1.29	2.01	2.61	3.28		
POI-1	0.92	1.85	2.55	3.13	3.77		
POI-2	1.86	6.14	9.81	12.92	16.24		

A summary of comparison between the existing and proposed drainage calculations is as follows:

Existing vs. Developed Conditions Drainage Calculations					
Basin	2-YR (CFS)	10-YR (CFS)	25-YR (CFS)	50-YR (CFS)	100-YR (CFS)
POI-1	0.34	0.15	-0.05	-0.24	-0.44
POI-2	-0.87	-2.42	-3.55	-4.54	-5.71

The proposed Batch Detention Basin will provide the necessary detention needed to lower the stormwater runoff flow rate at Point of Interest #2 below existing conditions while also providing the water quality treatment required for the development. Stormwater will fill the pond until it reaches the rim of the rotating bucket at 686.31'. The bucket is 30" tall and the base is at 684.20', but it begins in an angled position such that the rim starts at 686.31', which is the water quality surface elevation. As the stormwater runoff in the pond rises above an elevation of 686.31', the stormwater will enter the outfall bucket and be conveyed to an 18" level spreader that releases the water to the northeast. Twelve hours after the rainfall event begins, the outfall bucket will slowly rotate to an elevation of 684.20' over the span of 46 hours to completely empty the pond after all the suspended solids have settled.

Det	Detention and Water Quality Pond Stage Storage					
Elevation	Area (SF)	Area (AC)	Cumulative Volume (cu. ft.)			
684.20	12.25	0.00	0.00			
684.25	118.48	0.00	3.27			
684.50	1995.38	0.05	267.50			
684.75	6394.40	0.15	1,316.22			
685.00	12412.11	0.28	3,667.04			
685.25	16838.62	0.39	7,323.38			
685.50	19190.34	0.44	11,827.00			
685.75	20347.13	0.47	16,769.18			
686.00	20848.51	0.48	21,918.64			
686.25	21318.11	0.49	27,189.46			
686.31	21431.58	0.49	28,471.96			
686.50	21791.48	0.50	32,578.15			
686.75	22268.62	0.51	38,085.66			
687.00	22749.53	0.52	43,712.93			
687.25	23240.06	0.53	49,461.63			
687.50	23862.4	0.55	55,349.43			
687.75	25320.46	0.58	61,497.29			
688.00	28105.36	0.65	68,175.52			

A table showing the storage capacity of the Batch Detention Basin can be seen below:

Stormwater runoff leaving the Batch Detention Basin is reduced from the existing conditions for the 2-YR, 10-YR, 25-YR, 50-YR, and 100-YR storm events. Stormwater runoff from the Batch Detention Basin will enter an 18" HDPE level spreader to eliminate any adverse impacts to neighboring or downstream properties as the stormwater flow will be spread out into a sheet flow condition instead of a concentrated discharge.

Section VI Agent Authorization Form (TCEQ-0599)

Agent Authorization Form

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

I	Brentley Brinegar	
	Print Name	ı
	Owner MANAGER	
	Title - Owner/President/Other	
of	Market Warehouse, LLC	
	Corporation/Partnership/Entity Name	
have authorized	Michael Easton Mundine	
	Print Name of Agent/Engineer	
of	2P Consultants, LLC	
····	Print Name of Firm	

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

I also understand that:

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

Applica

2-11-204 Date

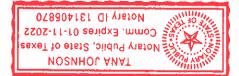
THE STATE OF T-EXAS \$ County of Williamson &

BEFORE ME, the undersigned authority, on this day personally appeared <u>Brankey Black</u>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 17 day of bleenber, 2021.

NOTARY PUBLIC Tana Johnson Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 1-11-2022



Section VII Application Fee Form (TCEQ-0574)

Application Fee Form

	Texas Commission on Environmental Quality					
Name of Proposed Regulated Entity: Market Street Industrial						
Regulated Entity Location: 181 Market Street, Georgetown, TX 78626						
Name of Customer: Market Warehouse, LLC						
Contact Person: Michael Easton Mundine Phone: (512) 344-9664						
Customer Reference Number (if is	ssued):CN <u>605978725</u>					
Regulated Entity Reference Number (if issued):RN <u>111418463</u>						
Austin Regional Office (3373)						
Hays	Travis	⊠w	illiamson			
San Antonio Regional Office (336	52)					
Bexar	Medina		valde			
Comal	 Kinney					
Application fees must be paid by	check, certified check, o	r money order, payab	le to the Texas			
Commission on Environmental Q						
form must be submitted with you	=	=	-			
🖂 Austin Regional Office			office			
Mailed to: TCEQ - Cashier	0	Overnight Delivery to: TCEQ - Cashier				
Revenues Section	12	2100 Park 35 Circle				
Mail Code 214	B	uilding A, 3rd Floor				
P.O. Box 13088	A	Austin, TX 78753				
Austin, TX 78711-3088	(5	12)239-0357				
Site Location (Check All That Apply):						
Site Location (Check All That App	oly):					
Site Location (Check All That App	ly):	Transi	tion Zone			
	Contributing Zone	Transi Size	tion Zone Fee Due			
Recharge Zone Type of Pla Water Pollution Abatement Plan,	Contributing Zone <i>n</i> Contributing Zone		[
Recharge Zone	Contributing Zone <i>n</i> Contributing Zone		[
Recharge Zone Type of Pla Water Pollution Abatement Plan,	Contributing Zone <i>n</i> Contributing Zone al Dwelling	Size	Fee Due			
Recharge Zone Type of Pla Water Pollution Abatement Plan, Plan: One Single Family Residentia	Contributing Zone Contributing Zone Description Contributing Zone Contributing Zone Contributing Zone	Size	Fee Due			
Recharge Zone Type of Pla Water Pollution Abatement Plan, Plan: One Single Family Residentia Water Pollution Abatement Plan, Plan: Multiple Single Family Resid Water Pollution Abatement Plan,	Contributing Zone Contributing Zone Dwelling Contributing Zone ential and Parks	Size Acres	Fee Due \$ \$			
Recharge Zone Type of Pla Water Pollution Abatement Plan, Plan: One Single Family Residentia Water Pollution Abatement Plan, Plan: Multiple Single Family Resid Water Pollution Abatement Plan, Plan: Non-residential	Contributing Zone Contributing Zone Dwelling Contributing Zone ential and Parks	Size Acres	Fee Due \$ \$ \$ \$ \$ 4,000.00			
Recharge Zone Type of Pla Water Pollution Abatement Plan, Plan: One Single Family Residentia Water Pollution Abatement Plan, Plan: Multiple Single Family Resid Water Pollution Abatement Plan, Plan: Non-residential Sewage Collection System	Contributing Zone Contributing Zone Dwelling Contributing Zone ential and Parks	Size Acres Acres	Fee Due \$ \$			
Recharge Zone Type of Pla Water Pollution Abatement Plan, Plan: One Single Family Residentia Water Pollution Abatement Plan, Plan: Multiple Single Family Resid Water Pollution Abatement Plan, Plan: Non-residential Sewage Collection System Lift Stations without sewer lines	Contributing Zone Contributing Zone Contributing Zone Contributing Zone ential and Parks Contributing Zone	Size Acres Acres 4.9471 Acres L.F. Acres	Fee Due \$ \$ \$ \$ 4,000.00 \$ \$			
Recharge Zone Type of Pla Water Pollution Abatement Plan, Plan: One Single Family Residentia Water Pollution Abatement Plan, Plan: Multiple Single Family Resid Water Pollution Abatement Plan, Plan: Non-residential Sewage Collection System Lift Stations without sewer lines Underground or Aboveground State	Contributing Zone Contributing Zone Contributing Zone Contributing Zone ential and Parks Contributing Zone	Size Acres Acres 4.9471 Acres L.F. Acres Tanks	Fee Due \$ \$ \$ \$ 4,000.00 \$ \$ \$ \$ \$ \$ \$ \$ \$			
Recharge Zone Type of Pla Water Pollution Abatement Plan, Plan: One Single Family Residentia Water Pollution Abatement Plan, Plan: Multiple Single Family Resid Water Pollution Abatement Plan, Plan: Non-residential Sewage Collection System Lift Stations without sewer lines Underground or Aboveground Stor Piping System(s)(only)	Contributing Zone Contributing Zone Contributing Zone Contributing Zone ential and Parks Contributing Zone	Size Acres Acres 4.9471 Acres L.F. Acres Tanks Each	Fee Due \$ \$ \$ \$ 4,000.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			
Recharge Zone Type of Pla Water Pollution Abatement Plan, Plan: One Single Family Residentia Water Pollution Abatement Plan, Plan: Multiple Single Family Resid Water Pollution Abatement Plan, Plan: Non-residential Sewage Collection System Lift Stations without sewer lines Underground or Aboveground Stor Piping System(s)(only) Exception	Contributing Zone Contributing Zone Contributing Zone Contributing Zone ential and Parks Contributing Zone	Size Acres Acres 4.9471 Acres L.F. Acres Tanks Each Each	Fee Due \$ \$ \$ \$ 4,000.00 \$			
Recharge Zone Type of Pla Water Pollution Abatement Plan, Plan: One Single Family Residentia Water Pollution Abatement Plan, Plan: Multiple Single Family Resid Water Pollution Abatement Plan, Plan: Non-residential Sewage Collection System Lift Stations without sewer lines Underground or Aboveground Stor Piping System(s)(only)	Contributing Zone Contributing Zone Contributing Zone Contributing Zone ential and Parks Contributing Zone	Size Acres Acres 4.9471 Acres L.F. Acres Tanks Each	Fee Due \$ \$ \$ \$ 4,000.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			

Signature:

Date: <u>October 10, 2022</u>

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	Fee
Exception Request	\$500

Extension of Time Requests

Project	Fee	
Extension of Time Request	\$150	

Section VIII Core Data Form (TCEQ-10400)



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 fo	1. Reason for Submission (If other is checked please describe in space provided.)															
🛛 New Per	mit, Regist	ration or Authori	zation (Core I	Data F	orm sho	ould be	subm	itted	with	the p	rogram applica	ation.)				
Renewal	(Core Da	ata Form should	be submitted	with ti	he renev	wal fori	n)		Othe	er						
2. Customer	Reference	e Number <i>(if iss</i>	ued)		Follow this link to search							Number	(if iss	sued)		
CN 6059	78725				<u>CN or RI</u> Central I			RN 111418463								
SECTION	II: Cus	stomer Info	ormation													
4. General C	ustomer lı	nformation	5. Effective	e Date	Date for Customer Information Updates (mm/dd/yyyy) 00/10/2022					2						
New Customer					te to Cu ary of S					oller of	-		egulated	Entity	Ownership	0
The Custo	mer Nan	ne submitted	here may	be u	pdated	l auto	mati	cally	y ba	ased	on what is	curre	ent and	l acti	ve with a	the
Texas Sec	retary of	State (SOS)	or Texas (Comp	otrolle	r of P	ublic	Acc	coul	nts (CPA).					
6. Customer	Legal Nar	ne (If an individua	l, print last nan	ne first:	eg: Doe	, John)			lf ne	w Cus	stomer, enter p	revious	s Custom	er belo	<u>)W:</u>	
Market W		·														
7. TX SOS/CI	•	Number		e Tax ID (11 digits)				9. Federal Tax ID (9 digits)			s)	10. DUN	S Nur	nber (if appl	icable)	
080427684	47	-	3208152	.2479				87-3193322								
11. Type of C	Sustomer:	🖂 Corporati	on		Individual				Partnership: 🔲 General 🗔 Limited							
Government:	City 🗌 🕻	County 🔲 Federal [] State 🗌 Othe	er	r Sole Proprietorship Other:			Other:								
12. Number of			_	_	_1								I and Operated?			
	21-100	101-250	251-500			nd high				Yes		-				
14. Custome	r Role (Pro	posed or Actual) -	- as it relates to	o the R	egulated	Entity I	isted o	n this	form	. Pleas	se check one of	the foll	lowing:			
⊠Owner ☐Occupation	nal License	e 🗌 Opera	tor onsible Party			wner & oluntar	•		Appl	licant	□Othe	r:				
	410 W	Anderson A	venue													
15. Mailing Address:																
Address.	City	Round Rock	K	,	State TX Z			ZIP	, ,	7866	64	Z	IP + 4			
16. Country I	Mailing Inf	ormation (if outs	ide USA)			L	17. E	-Mai	il Ad	Idress	6 (if applicable)	1		1		
	v	,	/							xas.	,					
18. Telephon	e Number	•		19.	Extensi	on or ('	/				x Number (if applicable)				
(512) 940-0188											()	-				

SECTION III: Regulated Entity Information

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

 ☑ New Regulated Entity
 □ Update to Regulated Entity Name
 □ Update to Regulated Entity Information

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

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

Market Street Industrial

23. Street Address of	181 Ma	rket Street										
the Regulated Entity: (No PO Boxes)	City	Coorrector		State	ТХ	7	ZIP	706	26	ZIP +	4	
24 County	City	Georgetow		vn State		•	ZIP	786	20		4	
24. County	William											
	En	ter Physical Lo	ocati	on Description	if no	street	t address is	s provi	ded.			
25. Description to Physical Location:												
26. Nearest City				State					Nearest ZIP Code			
27. Latitude (N) In Decimal: 30.689392			2			28. Lo	ongitude (W	/) In	Decimal:	: 97.646156		
Degrees	Minutes		Seco	onds		Degree	S		Minutes			Seconds
30°	4	41'		21.81"			97°		3	38'		46.16"
29. Primary SIC Code (4 digits) 30. Secondary SIC			C Co	de (4 digits)						. Secondary NAICS Code or 6 digits)		
5999 5999				45399 453998					998			
33. What is the Primary B	Susiness of t	his entity?	Do noi	t repeat the SIC or I	VAICS	descript	tion.)		I			
Industrial Office and	l Warehou	use Space										
				4 1	I0 We	est Ano	derson Ave	nue				
34. Mailing												
Address:	City	Round Ro	ck	State	te TX		ZIP 7		78664 Z		4	
35. E-Mail Address:						bb@5	512texas.co	m				
36. Telepho	one Number			37. Extension or Code 38. Fax Number (if app					ber <i>(if app</i>	olica	ble)	
(512) 9	940-188								() -		
39. TCEQ Programs and ID form. See the Core Data Form in	Numbers Ch structions for a	eck all Programs additional guidan	s and ce.	write in the permit	ts/regi	stration	numbers tha	ıt will be	affected by	the updates	sub	mitted on this
Dam Safety	Districts		\boxtimes	Edwards Aquifer		Ľ	Emissions	Invento	ry Air	Industrial Hazardous Waste		
Municipal Solid Waste	Municipal Solid Waste New Source Review Air			OSSF			Petroleum Storage Tank			PWS		
Sludge	Storm W	ater		Title V Air						Used Oil		
		latar		Maatawatar A ===	oulture							
Voluntary Cleanup	U Waste W	alei		Wastewater Agri	culture		Water Rights			Other:		

SECTION IV: Preparer Information

40. Name:	Michael Eas	ston Mundine, P.	Е.	41. Title:	Project Manager
42. Telephon	e Number	43. Ext./Code	44. Fax Number	45. E-Mail /	Address
(512)344-9664			() -	emundin	e@2pconsultants.com

SECTION V: Authorized Signature

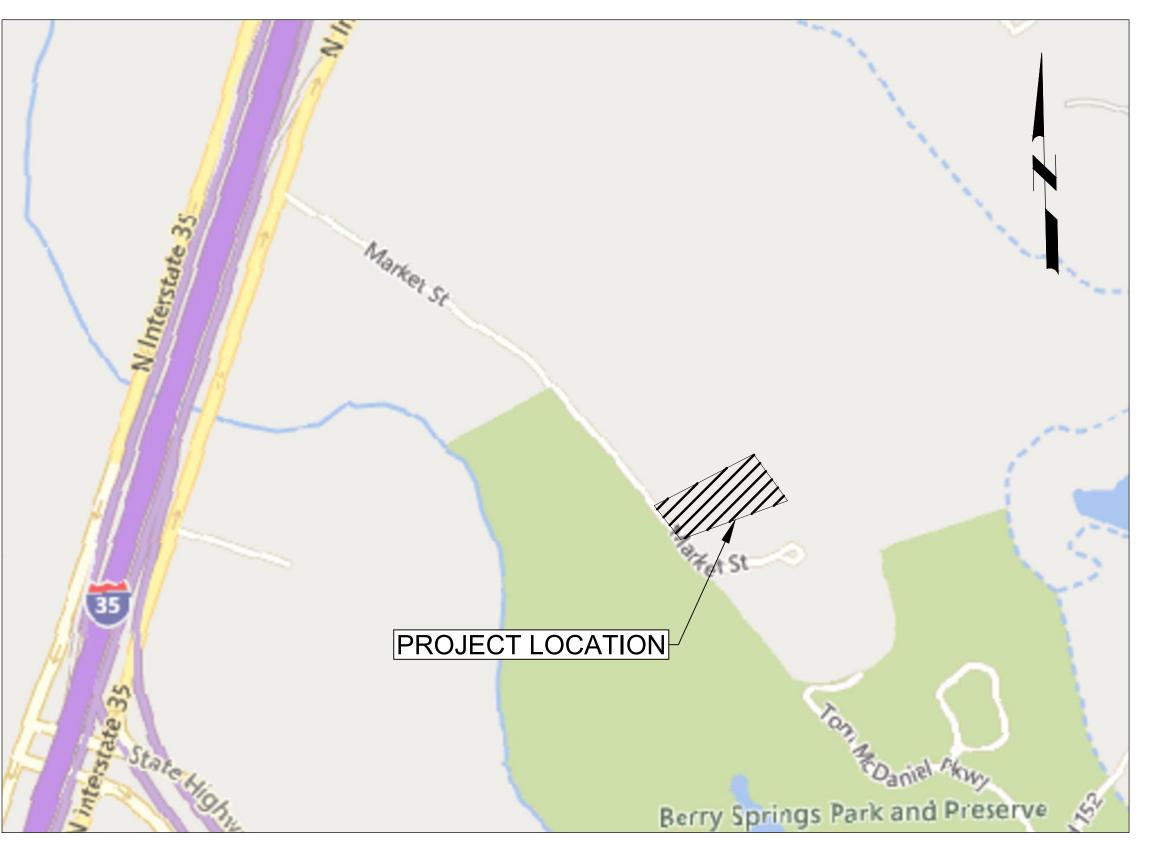
46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	2P Consultants, LLC.	anager			
Name(In Print) :	Michael Easton Mundine, P.E.				(512) 344-9664
Signature:	Est 1			Date:	10/18/2022

			MARKET STREET INDUSTRIAL - STORMWATER PERMIT	
	PROJECT LEGAL DES	SCRIPTION:	56593 - RESOURCE COMMERCIAL PARK LOT 12, 4.9471 ACRES	
	PROJECT STREET AD	DDRESS:	181 MARKET STREET GEORGETOWN, TEXAS 78626	
	PROPERTY OWNER: ADDRESS: PHONE:		MARKET WAREHOUSE, LLC BRENTLEY BRINEGAR AND BEN WILLIAMS 410 W. ANDERSON AVENUE ROUND ROCK, TEXAS 78664 512-940-0188	
	ENGINEER: ADDRESS: PHONE:		MICHAEL EASTON MUNDINE,P.E. 2P CONSULTANTS, LLC 203 E. MAIN STREET, SUITE 203 ROUND ROCK, TX 78664 NELSON W. OGREN , P.E 512-344-9664	
	SITE CALCULATIONS EXISTING SITE IMPER BOUNDARY BUILDINGS, SW, PAVE EXISTING IMPERVIOU PROPOSED SITE IMPE PROPOSED BUILDING PROPOSED TOTAL SIT PROPOSED IMPERVIO	EVIOUS COVE EMENT IS COVER ERVIOUS COV SS, TE IC	215,499.25 SQ FT = 4.947 AC 632.70 SQ FT = 0.015 AC 0.29%	
	CITY LIMITS NOTE:		CT IS LOCATED IN THE EXTRATERRITORIAL JURISDICTION OF THE ORGETOWN.	
	FLOODPLAIN NOTE:	FLOODPLAI	N OF THIS PROJECT IS LOCATED WITHIN THE 100-YEAR N AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT RM MAPS: #48491C0285F EFFECTIVE DECEMBER 20, 2019.	
	AQUIFER NOTE: WATERSHED NOTE:	THIS SITE IS	ECT IS LOCATED IN THE EDWARDS AQUIFER RECHARGE ZONE. S LOCATED IN THE BERRY CREEK WATERSHED, THERE ARE NO ITICAL ENVIRONMENTAL FEATURES EVIDENT ON THIS SITE.	
	WATER QUALITY:	ZONE AND	ECT IS LOCATED WITHIN THE EDWARD'S AQUIFER RECHARGE HAS AN APPROVED WPAP UNDER EDWARD'S AQUIFER IN PROGRAM. WPAP#	
	DETENTION NOTE:	THIS SITE P	ROVIDES FOR ONSITE DETENTION.	
	BENCHMARKS: BM "A":	CONCRETE F STREET, APP	WITH A METAL WASHER STAMPED "JPH BENCHMARL" SET IN OR A WATER VALVE LOCATED IN THE RIGHT-OF-WAY OF MARKET ROXIMATELY 27 FEET SOUTHWESTERLY FROM THE WAST CORNER OF F PROPERTY. BENCHMARK ELEVATION = 687.25' (NAVD'88)	
	UTILITY CONTACTS: WATER: WASTEWATER: ELECTRIC: CABLE/TELEPHONE: NATURAL GAS:	PRIVATE SE	ORGETOWN 512-930-3640 PTIC SYSTEM ES ELECTRIC COOPERATIVE 512-355-2131 TBD TBD	
1. THES BASE HERI APPL 2. THIS 3. THIS 4. WHE THE RE-IN ENG 5. ALL I ADDITION 1. THE 2. A GE DECI	ED ON THE ENGINEER'S CONC EBY APPROVED SUBJECT TO LICABLE CITY, STATE, AND FEI PROJECT IS SUBJECT TO ALL PROJECT TO THE CITY. PROJECT IS SUBJECT TO THE ERE NO EXISTING OVERHEAD I STREET AND WITHIN THE SITE NSTALLED UNDERGROUND AN INEER. ELECTRIC AND COMMUNICATI NAL NOTES FOR PROPERTIES PROPERTY SUBJECT TO THIS EOLOGIC ASSESSMENT, IN ACC EMBER 15, 2020. ANY SPRING ANT NOTES TO CONTRACTOR	CURRENCE OF CO THE STANDARD DERAL REQUIRE CITY STANDARD E WATER QUALIT INFRASTRUCTUF E. WHERE EXIST ND THE EXISTING ION INFRASTRUC DON INFRASTRUC DON INFRASTRUC DON INFRASTRUC DON INFRASTRUC CORDANCE WITH S AND STREAMS	AND DATED BY A TEXAS LICENSED PROFESSIONAL ENGINEER. THEREFORE, DMPLAINCE, THE PLANS FOR CONSTRUCTION OF THE PROPOSED PROJECT ARE CONSTRUCTION SPECIFICATIONS AND DETAILS MANUAL AND ALL OTHER MENTS AND CODES. D SPECIFICATIONS AND DETAILS IN EFFECT AT THE TIME OF THE SUBMITTAL OF Y REGULATIONS OF THE CITY OF GEORGETOWN. RE EXISTS, UNDERGROUND ELECTRIC UTILITY LINES SHALL BE LOCATED ALONG ING OVERHEAD INFRASTRUCTURE IS TO BE RELOCATED, IT SHALL BE FACILITIES SHALL BE REMOVED AT THE DISCRETION OF THE DEVELOPMENT TURE SHALL COMPLY WITH UDC SECTION 13.06. RTHE EDWARDS AQUIFER RECHARGE ZONE: SUBJECT TO THE WATER QUALITY REGULATIONS OF THE CITY OF GEORGETOWN. IT THE CITY OF GEORGETOWN WATER QUALITY REGULATIONS, WAS COMPLETED ON AS IDENTIFIED IN THE GELOGIC ASSESSMENT ARE SHOWN HEREIN.	
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STORMWATER PERMIT IARKET STREET INDUSTRIAL STORMWATER PERMIT

181 MARKET STREET GEORGETOWN, TEXAS 78626 DECEMBER 20TH, 2021 2021-32-SWP



VICINITY MAP - 1" = 600'

NAL PLAT DOC.NO 1997016292

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 (SF. FT)/%	DATE IMAGED

NOTES:

FINAL FOR CONSTRUCTION UNTIL PRIOR TO APPROVAL.

ALL DAMAGES WHICH MIGHT BE FAILURE TO EXACTLY LOCATE AND UTILITIES.

	Sheet List Table
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL NOTES
3	FINAL PLAT (1 OF 3)
4	FINAL PLAT (2 OF 3)
5	FINAL PLAT (3 OF 3)
6	EXISTING CONDITIONS & DEMO PLAN
7	EROSION AND SEDIMENTATION CONTROL PLAN
8	EROSION & SEDIMENTATION DETAILS
9	SITE PLAN
10	DIMENSIONAL CONTROL PLAN
11	SITE PLAN DETAILS (1 OF 2)
12	SITE PLAN DETAILS (2 OF 2)
13	GRADING PLAN
14	EXISTING CONDITIONS DRAINAGE AREA MAP
15	DEVELOPED CONDITIONS DRAINAGE AREA MAP
16	ON-SITE EXISTING CONDITIONS DRAINAGE AREA MAP
17	ON-SITE DEVELOPED CONDITIONS DRAINAGE AREA MAP
18	WATER QUALITY POND PLAN
19	WATER QUALITY POND PROFILES & CALCULATIONS
20	WATER QUALITY POND DETAILS
21	WATER PLAN
22	WATER DETAILS (1 OF 2)
23	WATER DETAILS (2 OF 2)
24	WASTEWATER PLAN
25	WASTEWATER PROFILES
26	WASTEWATER DETAILS (1 OF 2)
27	WASTEWATER DETAILS (2 OF 2)
28	FIRE PROTECTION PLAN
	t.

WILLIAMSON COUNTY CERTIFICATE OF COMPLIANCE NUMBER

WILLIAMSON COUNTY DRIVEWAY PERMIT NUMBER

JURISDICTIONAL REVIEW

AS APPROVED BY THE PLANNING AND ZONING COMMISSION ON: (DATE)

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN ACCEPTING THESE PLANS, THE CITY OF GEORGETOWN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

> I, MICHAEL EASTON MUNDINE P.E., do hereby confirm that any new Public Works and Drainage Improvements described herein, have been designed in compliance with the stormwater drainage policy adopted by the City of Georgetown, Texas.





MICHAEL EASTON MUNDINE, P.E.

2P CONSULTANTS, LLC 203 E. MAIN STREET, SUITE 204 ROUND ROCK, TEXAS 78664 512-344-9664 TBPE FIRM #F-19351

1. THESE PLANS ARE NOT TO BE CONSIDERED ACCEPTED BY THE CITY / AND, OR THE COUNTY. CHANGES MAY BE REQUIRED

2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER, OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND OCCASIONED BY THE CONTRACTOR'S PRESERVE ANY AND ALL UNDERGROUND

X

5/4/23

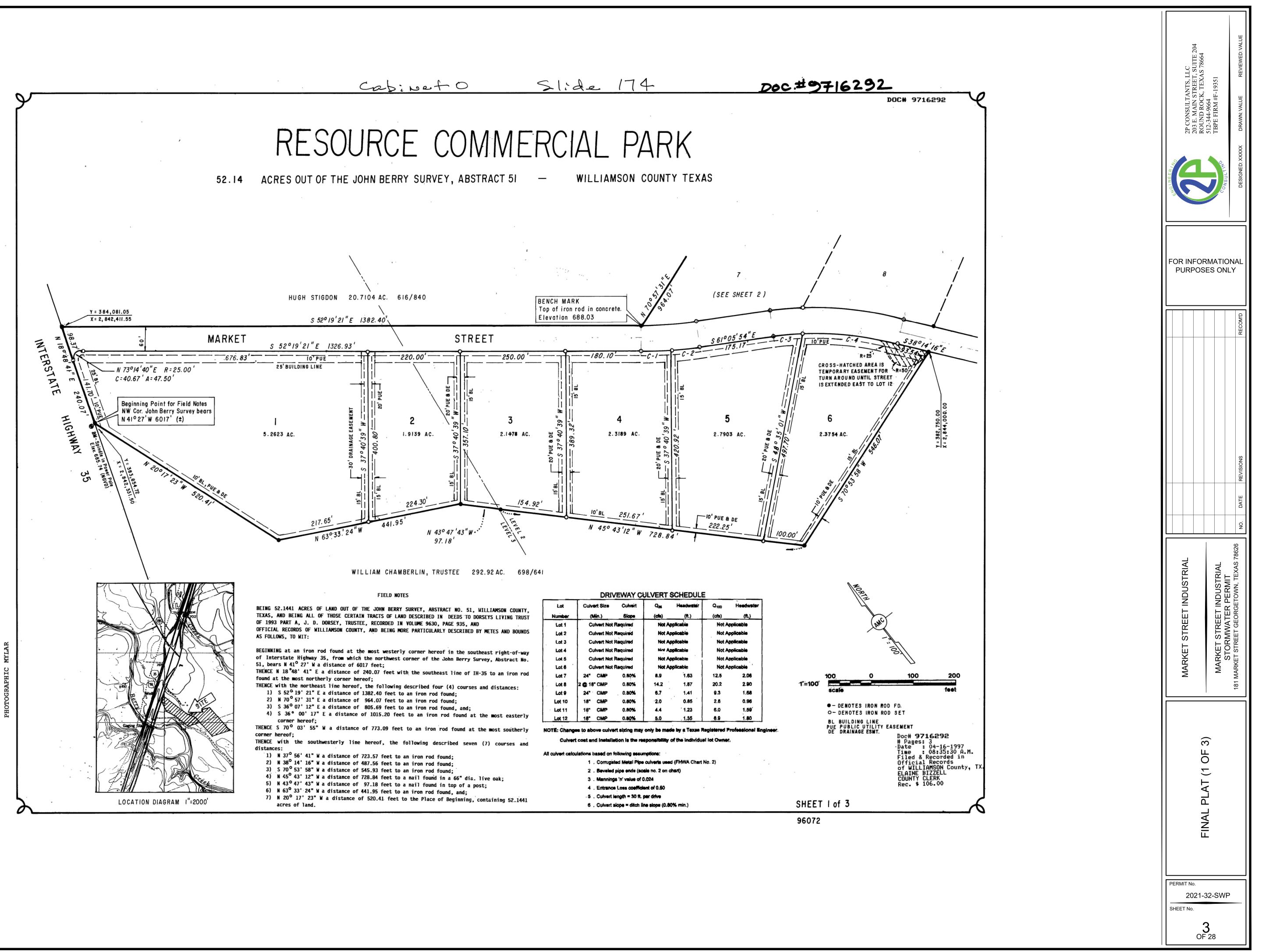
DATE

GE	NERAL NOTES: (CITY)	9. LICENSE REQUIREMENTS OF EITHER RME-U OR G. WHEN CONI UNDERGROUND TO THE WATER PURVEYOR'S MAIN FROM THE
1.	THESE CONSTRUCTION PLANS WERE PREPARED, SEALED, SIGNED AND DATED BY A TEXAS LICENSED PROFESSIONAL ENGINEER. THEREFORE, BASED ON THE ENGINEER'S CONCURRENCE OF COMPLIANCE, THE CONSTRUCTION PLANS FOR	CONNECTION OR VALVE WHERE THE PRIMARY PURPOSE OF W PROTECTION SPRINKLER SYSTEM.
	CONSTRUCTION OF THE PROPOSED PROJECT ARE HEREBY APPROVED SUBJECT TO THE STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS MANUAL AND ALL OTHER APPLICABLE CITY, STATE AND FEDERAL REQUIREMENTS AND CODES.	CONSTRUCTION SEQUENCING
2.	THIS PROJECT IS SUBJECT TO ALL CITY STANDARD SPECIFICATIONS AND DETAILS IN AFFECT AT THE TIME OF SUBMITTAL OF THE PROJECT TO THE CITY.	1. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE T INDICATED ON THE APPROVED SITE PLAN OR SUBDIVISION CO AND IN ACCORDANCE WITH THE STORMWATER POLLUTION PR (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INST
3.	THIS SITE CONSTRUCTION PLANS SHALL MEET ALL REQUIREMENTS OF THE APPROVED SITE PLAN.	 PROTECTION AND INITIATE TREE MITIGATION MEASURES. 2. THE ENVIRONMENTAL PROJECT MANAGER, AND/OR SITE SUPE
4.	WASTEWATER MAINS AND SERVICE LINES SHALL BE SDR 26 PVC.	DESIGNATED RESPONSIBLE PARTY, AND THE GENERAL CONTR FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (S
5.	WASTEWATER MAINS SHALL BE INSTALLED WITHOUT HORIZONTAL OR VERTICAL BENDS.	THE SITE. TEMPORARY EROSION AND SEDIMENTATION CONTR REVISED, IF NEEDED, TO COMPLY WITH CITY INSPECTORS' DIR REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER
6.	MAXIMUM DISTANCE BETWEEN MANHOLES IS 500 FEET.	REQUIREMENTS AND THE EROSION PLAN.3. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL
7.	WASTEWATER MAINS SHALL BE LOW PRESSURE AIR TEST AND MANDREL TESTED BY THE CONTRACTOR ACCORDING TO CITY OF GEORGETOWN AND TCEQ REQUIREMENTS.	MAINTAINED IN ACCORDANCE WITH THE STORM WATER POLLU PLAN (SWPPP) POSTED ON THE SITE.
8.	WASTEWATER MANHOLES SHALL BE VACUUM TESTED AND COATED BY CONTRACTOR ACCORDING TO THE CITY OF GEORGETOWN AND TCEQ	 BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITY COMPLETE CONSTRUCTION AND START RE-VEGETATION OF TR
	REQUIREMENTS.	6. UPON COMPLETION OF THE SITE CONSTRUCTION AND RE-VEG
9.	WASTEWATER MAINS SHALL BE CAMERA TESTED BY THE CONTRACTOR AND SUBMITTED TO THE CITY OF GEORGETOWN DVD FORMAT PRIOR TO PAVING THE STREETS.	PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT AN ENG CONCURRENCE TO THE WATERSHED PROTECTION AND DEVEL DEPARTMENT INDICATING THAT CONSTRUCTION, INCLUDING F COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPE
10.	PRIVATE WATER SYSTEM FIRE LINES SHALL BE TESTED BY CONTRACTOR TO 200 PSI FOR 4 HOURS.	AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE APPROPRIATE CITY INSPECTOR.
11.	PRIVATE WATER SYSTEM FIRE LINES SHALL BE DUCTILE IRON PIPING FROM THE WATER MAIN TO THE BUILDING SPRINKLER SYSTEM, AND 200 PSI C900 PVC FOR ALL OTHERS.	7. AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AR RE-VEGETATED PER PLAN TO AT LEAST 90 PERCENT ESTABLIS TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND ON NECESSARY FINAL RE-VEGETATION RESULTING FROM REMOVE
12.	PUBLIC WATER SYSTEM MAINS SHALL BE 150 PSI C900 PVC AND TESTED BY THE CONTRACTOR AT 150 PSI FOR 2 HOURS.	CONTROLS. CONDUCT ANY MAINTENANCE AND REHABILITATIC QUALITY PONDS OR CONTROLS.
13.	ALL BENDS AND CHANGES IN DIRECTION ON WATER MAINS SHALL BE RESTRAINED AND THRUST BLOCKED.	TPDES / SWPPP
14.	LONG FIRE HYDRANT LEAD SHALL BE RESTRAINED.	A STORMWATER POLLUTION PREVENTION PLAN, AS REQUIRED BY TEXAS UNDER THE TPDES STATUTES, IS REQUIRED FOR THIS PRO-
15.	ALL WATER LINES ARE TO BE BACTERIA TESTED BY THE CONTRACTOR ACCORDING TO THE CITY STANDARDS AND SPECIFICATIONS.	MUST BE FILED AND AVAILABLE FOR INSPECTION ON-SITE. PROJECTION ON-SITE. PROJECTION AME SHALL BE POSTED IN A PUBLIC PLACE AT THE MAIN GATE / CONTRANCE. THE NOTICE OF INTENT (NOI) SHALL BE FILED WITH T.CONTRANCE.
16.	WATER AND SEWER MAIN CROSSINGS SHALL MEET ALL REQUIREMENTS OF TCEQ AND THE CITY,	GIVEN TO THE CITY OF GEORGETOWN. NO WORK SHALL BE START ASPECTS OF THE SWPPP ARE IN PLACE. ALL REGULATIONS ON THI STRICTLY FOLLOWED OR THE CONTRACTOR WILL BE SUBJECT TO
17.	FLEXIBLE BASE MATERIAL FOR PUBLIC STREETS SHALL BE TXDOT TYPE A GRADE 1.	CONTRACTOR INFORMATION: CONTRACTOR:
18.	HOT MIX ASPHALT CONCRETE PAVEMENT SHALL BE TYPE D UNLESS OTHERWISE SPECIFIED AND SHALL BE A MINIMUM OF 2 INCHES THICK ON PUBLIC STREETS AND ROADS.	CONTRACTOR PHONE NUMBER: FIRE DEPARTMENT NOTES
19.	ALL SIDEWALK RAMPS ARE TO BE INSTALLED WITH THE PUBLIC INFRASTRUCTURE.	<u>FIRE DEPARTMENT NOTES</u>
20.	A MAINTENANCE BOND IS REQUIRED TO BE SUBMITTED TO THE CITY PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENT. THIS BOND SHALL BE ESTABLISHED FOR 2YEARS IN THE AMOUNT OF 10% OF THE COST OF THE PUBLIC IMPROVEMENTS AND SHALL FOLLOW THE CITY FORMAT.	ON PAVEMENT FIRE LINE STRIPES SHALL BE A CONTINUOUS 8" REE WITH: "NO PARKING - FIRE LANE - TOW AWAY ZONE" IN 4" WHITE CO ALONG CURBS, PAINT FACE WITH RED COLOR AND WRITE WITH 4" LETTERS: "NO PARKING - FIRE LANE - TOW AWAY ZONE".
21.	RECORD DRAWINGS OF THE PUBLIC IMPROVEMENTS SHALL BE SUBMITTED TO THE CITY BY THE DESIGN ENGINEER PRIOR TO ACCEPTANCE OF THE PROJECT. THESE DRAWINGS SHALL BE ON TIFF OR PDF (300dpi).	
GE	NERAL NOTES: (CITY)	
SU EN INS	OR TO CONSTRUCTION ABOVE THE SLAB, PROVIDE AN ALL-WEATHER DRIVE RFACE OF ASPHALT OR CONCRETE OR CHIP SEAL PLACED ONTO BASE MATERIAL GINEERED TO WITHSTAND 75,000 LBS. AN ACCEPTANCE INSPECTION BY FIRE PECTIONS IS REQUIRED. 2 IFC 503 AND D102.1	
<u>+I</u>	APPROVAL OF THIS SITE PLAN DOES NOT IMPLY APPROVAL TO INSTALL	
1.	UNDERGROUND FIRE LINES. PRIOR TO INSTALLATION OF UNDERGROUND FIRE LINES, A SEPARATE PERMIT SHALL BE SUBMITTED, UNDER GROUND FIRE LINE SUPPLY.	
2.	BACKFLOW PROTECTION WILL BE PROVIDED IN ACCORDANCE WITH THE CITY OF GEORGETOWN REQUIREMENTS WHEN REQUIRED. BACKFLOW PROTECTION WILL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED IN THE UTILITY DRAWINGS.	
3.	ALL PRIVATE FIRE LINES AND WHAT THEY PROVIDE SERVICE TO WILL BE INSTALLED IN ACCORDANCE WITH NFPA 24 INSTILLATION OF PRIVATE SERVICE MAINS AND THEIR APPURTENANCES.	
4.	ALL TEES, PLUGS, CAPS, BENDS, REDUCERS, VALVES SHALL BE RESTRAINED AGAINST MOVEMENT. THRUST BLOCKING AND JOINT RESTRAINED WILL BE INSTALLED IN ACCORDANCE WITH NFPA 24.	
5.	ALL UNDERGROUND SHALL REMAIN UNCOVERED UNTIL A VISUAL INSPECTION IS CONDUCTED BY THE GEORGETOWN FIRE MARSHAL'S OFFICE (FMO). ALL JOINT RESTRAINTS AND THRUST BLOCKING SHALL BE UNCOVERED FOR VISUAL INSPECTION.	
6.	ALL UNDERGROUND SHALL BE FLUSHED PER THE REQUIREMENTS OF NFPA STANDARD 24 AND WITNESSED BY GEORGETOWN FMO.	
	ALL UNDERGROUND SHALL PASS A HYDROSTATIC TEST WITNESSED BY GEORGETOWN FMO. ALL JOINTS SHALL BE UNCOVERED FOR HYDROSTATIC TESTING. ALL PIPING AND ATTACHMENTS SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE TESTED AT 200 PSI, OR 50 PSI MORE THAN THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE + OR - 5 PSI FOR 2 HOURS.	
	FENCES, LANDSCAPING, AND OTHER ITEMS WILL NOT BE INSTALLED WITHIN 3 FT, AND WHERE THEY WILL OBSTRUCT THE VISIBILITY OR ACCESS TO HYDRANTS, OR REMOTE FDCs.	

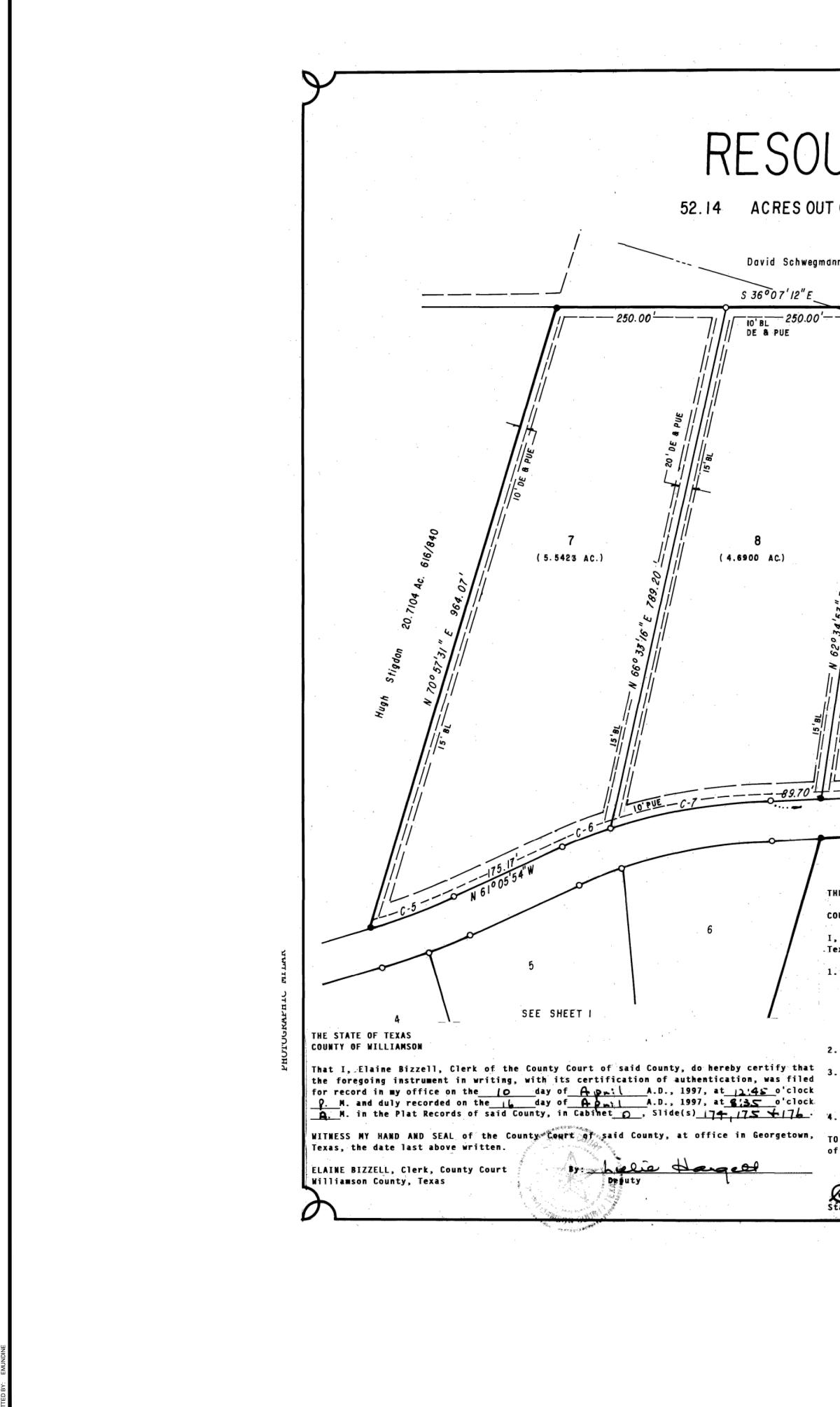
NNECTING BY	TECQ-0592 (Rev. 3/15/07)		TEXAS COMMISSION ON ENVIRONMENTAL (
WATER IS FOR FIRE	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY		WATER DISTRIBUTION SYSTEM
	WATER POLLUTION ABATEMENT PLAN		GENERAL CONSTRUCTION NOTES
	GENERAL CONSTRUCTION NOTES		1. THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED
E TO BE INSTALLED AS	1. WRITTEN CONSTRUCTION NOTIFICATION MUST BE GIVEN TO THE APPROP	RIATE	WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENT
CONSTRUCTION PLAN PREVENTION PLAN	TCEQ REGIONAL OFFICE NO LATER THAN 48 HOURS PRIOR TO COMMENCE THE REGULATED ACTIVITY. INFORMATION MUST INCLUDE THE DATE ON W		RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D.
ISTALL TREE	REGULATED ACTIVITY WILL COMMENCE, THE NAME OF THE APPROVED PL	AN FOR	NOTED WITH LOCAL STANDARDS, THE MORE STRINGENT REC APPLIED. CONSTRUCTION FOR PUBLIC WATER SYSTEMS MUS
	THE REGULATED ACTIVITY, AND THE NAME OF THE PRIME CONTRACTOR A NAME AND TELEPHONE NUMBER OF THE CONTACT PERSON.		MINIMUM, MEET TCEQ'S "RULES AND REGULATIONS FOR PUB
PERVISOR, AND/OR	2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED W		2. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUS
TRACTOR WILL (SWPPP) POSTED ON	PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVEI	O WATER	AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SAN (ANSI/NSF) STANDARD 61-G AND MUST BE CERTIFIED BY AN (
ITROLS WILL BE DIRECTIVES, AND	POLLUTION ABATEMENT PLAN AND THE TCEQ LETTER INDICATING THE SPI CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULAT		ACCREDITED BY ANSI, AS REQUIRED BY 30 TAC §290.44(A)(1).
ER QUALITY PLAN	ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES APPROVED PLAN AND APPROVAL LETTER.		3. PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BE
			SANITATION FOUNDATION SEAL OF APPROVAL (NSF PW-G) AI DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANE
L BE INSPECTED AND	3. IF ANY SENSITIVE FEATURE IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPEN		RATIO OF 26 OR LESS, AS REQUIRED BY 30 TAC §290.44(A)(2).
	IMMEDIATELY. THE APPROPRIATE TCEQ REGIONAL OFFICE MUST BE IMME NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRU		4. NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER
TIVITIES.	THE REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PRO UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE METHODS PROPOSE		CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR IN ANY PUBLIC DRINKING WATER SUPPLY, AS REQUIRED BY 3
THE SITE.	PROTECT THE SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM AN POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.	١Y	5. ALL WATER LINE CROSSINGS OF WASTEWATER MAINS SHALI
	FOTENTIALLY ADVERSE INFACTS TO WATER QUALITY.		 ALL WATER LINE CROSSINGS OF WASTEWATER MAINS SHALL AS REQUIRED BY 30 TAC §290.44(E)(4)(B).
EGETATION OF A	 NO TEMPORARY ABOVEGROUND HYDROCARBON AND HAZARDOUS SUBST STORAGE TANK SYSTEM IS INSTALLED WITHIN 150 FEET OF A DOMESTIC, 		6. WATER TRANSMISSION AND DISTRIBUTION LINES SHALL BE I
ELOPMENT REVIEW	INDUSTRIAL, IRRIGATION, OR PUBLIC WATER SUPPLY WELL, OR OTHER SE FEATURE.		ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. OF THE WATER LINE MUST BE LOCATED BELOW THE FROST I
PROVED PLANS. BE SCHEDULED BY THE			SHALL THE TOP OF THE WATER LINE BE LESS THAN 24 INCHE
	 PRIOR TO COMMENCEMENT OF CONSTRUCTION, ALL TEMPORARY EROSIC SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY SELECT 		SURFACE, AS REQUIRED BY 30 TAC §290.44(A)(4).
AREAS HAVE BEEN	INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS AND GOOD ENGINEERING PRACTICES. CONTROLS SPECI		7. THE MAXIMUM ALLOWABLE LEAD CONTENT OF PIPES, PIPE F FITTINGS, AND FIXTURES IS 0.25 PERCENT, AS REQUIRED BY
LISHED, REMOVE THE	THE TEMPORARY STORM WATER SECTION OF THE APPROVED EDWARDS A	AQUIFER	
OVAL OF THE	PROTECTION PLAN ARE REQUIRED DURING CONSTRUCTION. IF INSPECTIO INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECT	LY, THE	 THE CONTRACTOR SHALL INSTALL APPROPRIATE AIR RELEASING VENT OPENINGS TO THE ATMOSPHERE COVERED WITH 16-M
TION OF THE WATER	APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIO CONTROLS MUST REMAIN IN PLACE UNTIL DISTURBED AREAS ARE REVEG		CORROSION RESISTANT SCREENING MATERIAL OR AN ACCE
	AND THE AREAS HAVE BECOME PERMANENTLY STABILIZED.		AS REQUIRED BY 30 TAC §290.44(D)(1).
	6. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIO		9. THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OF FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE O
BY THE STATE OF	SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE IMPACTS TO WATER QUALITY (E.G., FUGITIVE SEDIMENT IN STREET BEING		REQUIRED BY 30 TAC §290.44(F)(1).
OJECT. THE SWPPP	INTO SURFACE STREAMS OR SENSITIVE FEATURES BY THE NEXT RAIN).		10. WHEN WATERLINES ARE LAID UNDER ANY FLOWING OR INTE
ECT INFO & CONTACT / CONSTRUCTION	7. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATIO		SEMI-PERMANENT BODY OF WATER THE WATERLINE SHALL E SEPARATE WATERTIGHT PIPE ENCASEMENT. VALVES MUST
T.C.E.Q. AND A COPY RTED BEFORE ALL	NOT LATER THAN WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%. A PERMANENT STAKE MUST BE PROVIDED THAT CAN INDICATE WHEN THE S		EACH SIDE OF THE CROSSING WITH FACILITIES TO ALLOW TH PORTION OF THE SYSTEM TO BE ISOLATED AND TESTED, AS
THE SWPPP SHALL BE	OCCUPIES 50% OF THE BASIN VOLUME.		§290.44(F)(1).
	8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOS		11. PURSUANT TO 30 TAC §290.44(A)(5), THE HYDROSTATIC LEAK
	STORMWATER SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOU FOR STORMWATER DISCHARGES (E.G., SCREENING OUTFALLS, PICKED UP		EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY THE AWWA FORMULAS FOR PVC PIPE, CAST IRON AND DUCTILE IF
			THE FORMULAS IN THE NOTES ON THE PLANS.
	 ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SIT BE STORED ON-SITE WITH PROPER E&S CONTROLS. FOR STORAGE OR DIS 	SPOSAL	 THE HYDROSTATIC LEAKAGE RATE FOR POLYVINYL CHLO APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLC
	OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZON OWNER OF THE SITE MUST RECEIVE APPROVAL OF A WATER POLLUTION	E, THE	RECOMMENDED BY FORMULAS IN AMERICA WATER WORH (AWWA) C-605 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEA
ED COLOR STRIPE	ABATEMENT PLAN FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRAI PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.	JING	FORMULA FOR THIS CALCULATION IS CORRECT AND MOST IS IN USE;
COLOR LETTERS.			Q= LPD \sqrt{P}
4" WHITE COLOR	 STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORE 	RARILY	148,000
	OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARI		WHERE: Q = THE QUANTITY OF MAKEUP WATER IN GALLONS PER I
	PERMANENTLY CEASED. WHERE THE INITIATION OF STABILIZATION MEASU THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARY OR PERMAN		L = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN
	CEASE IS PRECLUDED BY WEATHER CONDITIONS, STABILIZATION MEASUR SHALL BE INITIATED AS SOON AS PRACTICABLE. WHERE CONSTRUCTION A	RES	D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
	ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTUR	RBING	P = THE AVERAGE TEST PRESSURE DURING THE HYDROS
	ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE. IN A		POUNDS PER SQUARE INCH (PSI). • THE HYDROSTATIC LEAKAGE RATE FOR DUCTILE IRON (DI
	EXPERIENCING DROUGHTS WHERE THE INITIATION OF STABILIZATION MEA BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR		APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLC RECOMMENDED BY FORMULAS IN AMERICA WATER WORK
	PERMANENTLY CEASED IS PRECLUDED BY SEASONAL ARID CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE	-	(AWWA) C-600 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEA
			FORMULA FOR THIS CALCULATION IS CORRECT AND MOS
	11. THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE		IS IN USE;
	TCEQ UPON REQUEST: THE DATES WHEN MAJOR GRADING ACTIVITIES OC		
	DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTL	CUR; THE Y CEASE	IS IN USE; L= SD √ P 148,000
		CUR; THE Y CEASE	IS IN USE; L= SD \sqrt{P} III
	DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTL ON A PORTION OF THE SITE; AND THE DATES WHEN STABILIZATION MEASU	CUR; THE .Y CEASE JRES ARE	IS IN USE; $L= \begin{array}{c} SD \ \sqrt{P} \\ 148,000 \end{array}$ WHERE:
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L QUALITY	16. WATERLINES SHALL NOT BE INSTALLED CLOSER THAN TEN FEET TO SEPTIC TANK DRAINFIELDS, AS REQUIRED BY 30 TAC §290.44(E)(8).		
S TED IN ACCORDANCE NTAL QUALITY (TCEQ) 30 TEXAS D. WHEN CONFLICTS ARE REQUIREMENT SHALL BE MUST ALWAYS, AT A UBLIC WATER SYSTEMS.	 THE CONTRACTOR SHALL DISINFECT THE NEW WATERLINES IN ACCORDANCE WITH AWWA STANDARD C-651-14 OR MOST RECENT, THEN FLUSH AND SAMPLE THE LINES BEFORE BEING PLACED INTO SERVICE. SAMPLES SHALL BE COLLECTED FOR MICROBIOLOGICAL ANALYSIS TO CHECK FOR EFFECTIVENESS OF THE DISINFECTION PROCEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MINIMUM OF ONE SAMPLE FOR EACH 1,000 FEET OF COMPLETED WATERLINE WILL BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1,000 FEET AS DESIGNATED BY THE DESIGN ENGINEER, AS REQUIRED BY 30 TAC §290.44(F)(3). DECHLORINATION OF DISINFECTING WATER SHALL BE IN STRICT ACCORDANCE 	2P CONSULTANTS, LLC 203 E. MAIN STREET, SUITE 204 ROUND ROCK, TEXAS 78664 512-344-9664 TBPE FIRM #F-19351	DRAWN: VALUE REVIEWED: VALUE
UST CONFORM TO ANITATION FOUNDATION N ORGANIZATION (1).	WITH CURRENT AWWA STANDARD C655-09 OR MOST RECENT.	2P CO 203 E. 80UN 512-34 TBPE	
BEAR THE NATIONAL AND HAVE AN ASTM NDARD DIMENSION 2).		NGINEER / NG	DESIGNED: XXXXX
R THAN THE OR RELOCATED FOR USE Y 30 TAC §290.44(A)(3).			
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E INSTALLED IN S. HOWEVER, THE TOP T LINE AND IN NO CASE HES BELOW GROUND		MICHAEL EASTON MUND D: 143266 CENSED IN SS/ONAL ENG	
E FITTINGS, PLUMBING 3Y 30 TAC §290.44(B)		5/4/2023	
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OR WHERE IT CAN BE OR INSTALLATION, AS			
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EET VERTICALLY OR R LATERAL, OR TION, AS REQUIRED BY			
OSS WASTEWATER MAINS, ES. RAW WATER SUPPLY / TILE OR CONCRETE /ATER SERVICE LINE, AS		PERMIT No. 2021-32-SWP SHEET No.	
		OF 28	

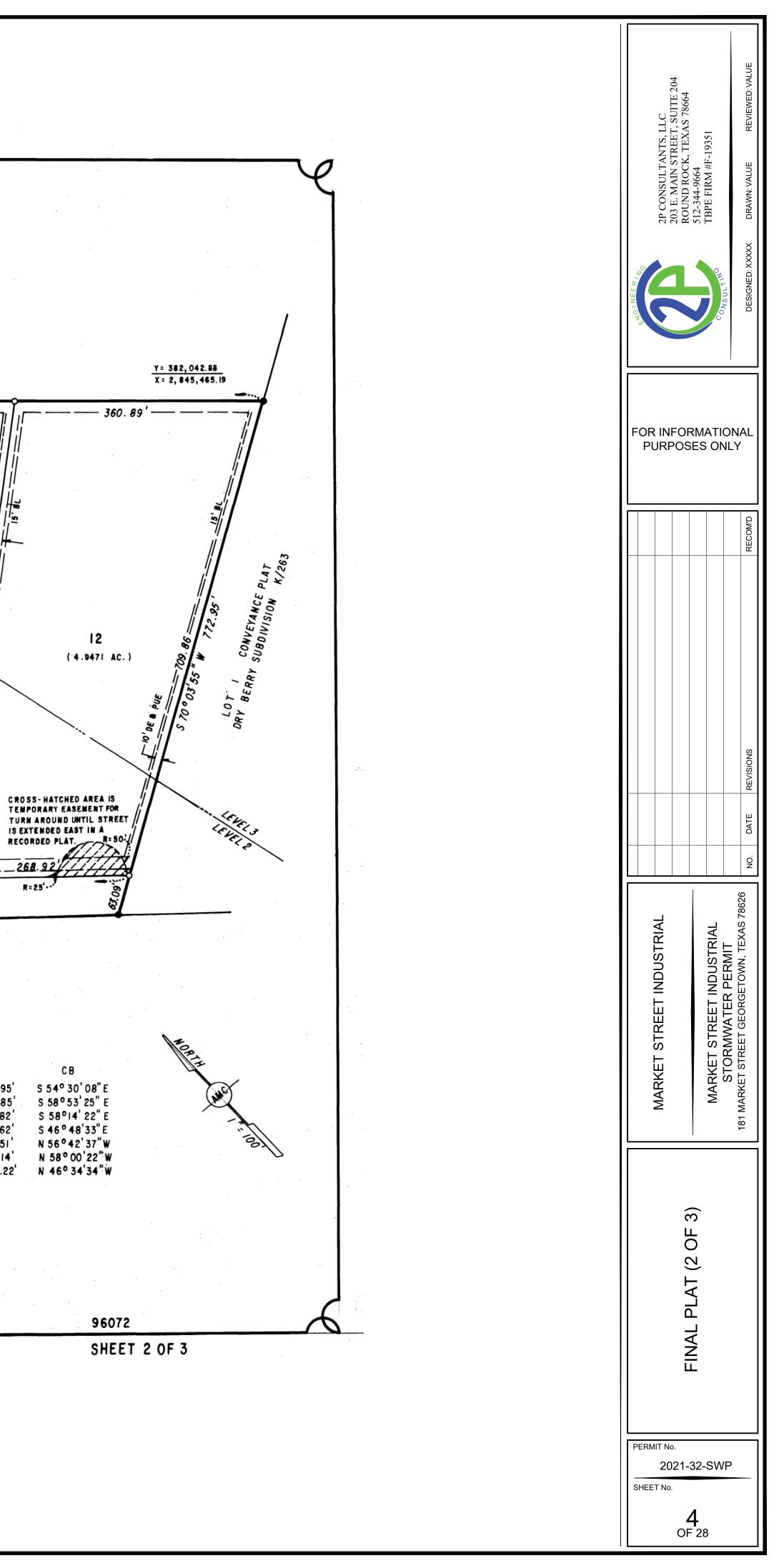




	Lot	Cuive	nt Size	Culvert	Q ₂₆	Headwater	Q ₁₀₀	Heedwater	
	Number	N	lin.)	Slope	(cfs)	(ft.)	(cfs)	(ft.)	
	Lot 1	T Cu	wert Not	Required	Not A	pplicable	Not A	pplicable	
	Lot 2	Cu	ivert Not	Required	Not A	pplicable	Not A	pplicable	
	Lot 3	Cu	Culvert Not Required			pplicable	Not Applicable Not Applicable Not Applicable		
	Lot 4	Culvert Not Required Culvert Not Required			Not A	oplicable			
	Lot 5				Not A	pplicable			
	Lot 6	Cu	ivert Not	Required	Not A	pplicable	Not A	pplicable	
	Lot 7	24"	CMP	0.80%	8.9	1.63	12.5	2.06	
	Lot 8	2 🙆 18	CMP	0.80%	14.2	1.87	20.2	2.90	
•	Lot 9	24"	CMP	0.80%	6.7	1,41	9.3	1.68	
	Lot 10	18"	CMP	0.80%	2.0	0.85	2.6	0.95	
	Lot 11	18"	CMP	0.80%	4.4	[.] 1.23	6.0	1.59	
	Lot 12	18"	CMP	0.80%	5.0	1.35	6.9	1.80	



Slide 175 cabinat 0 RESOURCE COMMERCIAL PARK 52.14 ACRES OUT OF THE JOHN BERRY SURVEY, ABSTRACT 51 -WILLIAMSON COUNTY, TEXAS David Schwegmann 639/779 David Schwegmann 9613/146 S 36°07'12"E 805.69' s 36° 00' 17" E 1015.20 DE & PUE — 320.00' — - 305.69'— -10 11 9 (5.2867 AC.) (5.1996 AC. (5.1179 AC.) an sint IS EXTENDED EAST IN A <u>25' BL</u> <u>321.83'</u> <u>10' PUE</u> _____268.92 S 37° 56 '41"E 743.43' R=25'. S 38º 14 '16 "E 581.05" STREET MARKET N 37° 56'41" W 723.57' N 36° 14' 16" W 487.56 William Chamberlin, Trustee 292.92 Ac. 698/641 THE STATE OF TEXAS KNOW ALL MEN BY THESE PRESENTS COUNTY OF WILLIAMSON I, Stan Coalter, a Registered Professional Land Surveyor in the State of CURVE TABLE Texas, do hereby certify that: - A С 1. This plat is true and correctly made from an actual survey made on the ground of the property legally described hereon, and that there are no C-1 4°21'35" 69.96' 69.95 919.43 apparent discrepancies, conflicts, or overlapping of improvements, C-2 4°24'58" 919.43 70.86' 70.85 except as shown on the accompanying plat, and that the corner monuments C-3 5°43'03" 720.00' 71.85 71.82 shown thereon were properly placed under my supervision in accordance with C-4 17°08'34" 720.00' 215.42 214.62 the Subdivision Regulations of the City of Georgetown, Texas. C-5 8°46'33" 859.43' 131.64' 131.51 C-6 6°11'02" 780.00' 84.18 84.14' N 58° 00'22"W 2. This tract is located within the Edwards Aquifer Recharge Zone. C-7 16° 40' 35" 780.00' 227.02' 226.22' N 46° 34' 34" W This tract is not within a Special Flood Hazard Area as identified by the U.S. Federal Emergency Management Agency Flood Insurance Rate Map, the foregoing instrument in writing, with its certification in the foregoing instrument in writing, with its certification in the foregoing instrument in writing, with its certification in the foregoing instrument in writing, with its certification in the foregoing instrument in writing, with its certification in the foregoing instrument in writing, with its certification in the foregoing instrument in writing, with its certification in the foregoing instrument in writing, with its certification in the foregoing instrument in writing, with its certification in the foregoing instrument in writing, with its certification in the foregoing instrument in writing, with its certification in the foregoing instrument in writing, with its certification in the foregoing instrument in writing, writing is certification in the foregoing instrument in writing, writing is certification in the foregoing instrument in writing, writing is certification in the foregoing instrument in the foregoing instrument in writing, writing is certification in the foregoing instrument in the foregoing instrum WITNESS MY HAND AND SEAL of the County Court of said County, at office in Georgetown, TO CERTIFY WHICH, WITNESS my hand and seal at Round Rock, Texas, this 27th day STAN COALTER of November, 1996. 1481 COALTER & ASSOCIATES 905 N. IH-35, Suite 108 Round Rock, Texas 78664 512-255-8211



NOTES THE STATE; OF TEXAS The subdivision known as <u>RESOURCE COMMERCIAL PARK</u> has been approved for filing for record Electrical service for this subdivision will be provided by Pedernales Electric according to the minutes of the meeting of the Georgetown City Council on the <u>2514</u> day COUNTY OF WILLIAMSON Cooperative, Inc. Water service will be provided by the Chisholm Trail S.U.D. Sewer service will be by on-site sewage facilities. This tract is located within the Edwards Aquifer Recharge Zone. No construction in the subdivision may begin until the Texas Natural Resources Conservation Commission has approved in writing the water pollution abatement plan. This subdivision is not within a Special Flood Hazard Area inundated by the 100 year LEO WOOD flood plain as identified by the U.S. Federal Emergency Management Agency Flood Insurance Rate Map, Community Panel 481079 0115C effective 11-8-96. The provisions of the Century-Plan Development Plan shall govern this project. This tract is designated Intensity Level 2 & 3. 5. There shall be an avigation easement over this subdivision which: a. Grants for the use and benefit of the public a continuing easement and right of flight for the passage of aircraft in the space above the surface of the land over Regulations as to which approval is required. which this easement is obtained, together with the right to cause in said air space such noise as may be inherent in the operation of aircraft, now known or hereafter used for navigation of or flight in the air space, using said air space for landing at, taking off from or operating on the Georgetown Municipal Airport. and; b. Will limit the height of any structure to no more than the approach slope of the transition slope elevation of the Georgetown Airport as indicated on the plat. maximum height of any structure shall be the difference between the ground elevation and the avigation elevation for any particular location. c. This subdivision is located beneath the horizontal control elevation of 939 feet. d. The maximum height of any structure located in the easement is 254 feet. Maximum impervious cover shall not exceed 70 percent. All lots in this subdivision are for commercial land use. . A Public Utility Easement 10' in width is hereby dedicated adjacent to all rightof-ways, and a Drainage and Public Utility Easement 10' in width is hereby dedicated along the sides and rear of all lots. No structure or land on this plat shall hereafter be located or altered without first submitting a CERTIFICATE OF COMPLIANCE Application Form to the Williamson County Flood Plain Administrator. 10. All public roadways and easements are dedicated free of liens. 11. Linear feet of new street dedicated hereon is 3325. 12. All building slab elevations shall be 1' above any point on the lot within 5' of the perimeter of the building. 13. Pursuant to the Development Agreement concerning Resource Commercial Park, no septic Approved for the U.S. Postal Service this 31 day of MARCH permits shall be issued to Lots 9-12 until Market Street is extended to the end of each lot. 14. As lots in the subdivision are developed, water quality controls shall be provided in accordance with the current TNRCC Edwards Aquifer Recharge Zone regulations. Water quality controls shall be designed to treat on-site development as well as roadway development from the roadway centerline to the adjacent right-of-way line. For Lots 1, 2, 3, and 4, these controls shall be designed to treat on-site development as well as roadway development within the entire right-of-way adjcent to each lot. 5. On-site stormwater detention for each lot will be sized to accommodate the concentrated run-off from the adjacent Market Street right-of-way. ENGINEER'S CERTIFICATION THE STATE OF TEXAS KNOW ALL MEN BY THESE PRESENTS Paulo Pinto COUNTY OF TRAVIS I, James M. Cook, a Registered Professional Engineer in the state of Texas, do hereby certify that the fully developed, concentrated stormwater runoff resulting from the one hundred (100) year frequency storm is contained within the drainage easements shown and/or public rights-of-way dedicated by this plat. TO CERTIFY WHICH, WITNESS, my hand and seal at Austin, Texas, this 2nd day of FEBRUARY , 1997. Cook-Steinman & Associates 3101 Bee Cave Road, Suite 314 Austin, Texas 78746 Tel. 306-0011 Fax 306-0033 James M. Cook, P.E. #58640

Cabinet O

Sl:de

RESOURCE COMMERCIAL PARK

of FEBRUARY , 199¢ A.D.

Mayor City of Georgetown, Texas

City of Georgetown, Texas

_, City Manager of the City of Georgetown, Texas, hereby certify that this subdivision plat conforms to all requirements of the Subdivision

BOB HART **Čity Manager** City of Georgetown, Texas

Accepted and authorized for record by the City Planning and Zoning Commission of the City of Georgetown, Texas.

EDWARD J. BARRY

GENERAL NOTE

Based upon the above representations of the engineer or surveyor whose seal is affixed permission from the County Commissioner hereto, and after a review of the plat as represented by the said engineer or surveyor, I find that this plat complies with the requirements of Edwards Aquifer Regulations for responsibility for drainage ways or ease Williamson County, the Williamson County Flood Plain Regulations, and Williamson County On- draining or protecting the road system and st Site Sewerage Facility Regulations. This certification is made solely upon such representations and should not be relied upon for verification of the facts alleged. The County assumes no responsibility for the Williamson County Health District and Williamson County disclaims any responsibility to any in this plat. Flood plain data, in part member of the public for independent verification of the representations, factual or development. otherwise, contained in this plat and the documents associated with it.

Director of Environmental Services

DATE

POSTMASTER

THE STATE; OF TEXAS

KNOW ALL MEN BY THESE

Dorsey, Trustee, Dorseys Living Trust Volume 9630, Page 935, and VOL 9662. there are no lien holders of the ce shown hereon, and do hereby consent to all plat note County of Williamson the streets, alleys, rights-of-way, purposes as the City of Georgetown may deem appropriate COMMERCIAL PARK.

TO CERTIFY WHICH, WITNESS by my hand this 15-54

ADDorsey
D. Dorsey, Trustee

THE STATE OF TEXAS

KNOW ALL MEN COUNTY OF WILLIAMSON

Before me, the undersigned authority, on Trustee, known to me to be the person whose r and acknowledged to me that he executed therein expressed, in the capacity therein st

GIVEN UNDER MY HAND AND SEAL of office this

Plalla Stevisor

Notary Public in and for the State of Texas my commission is for life

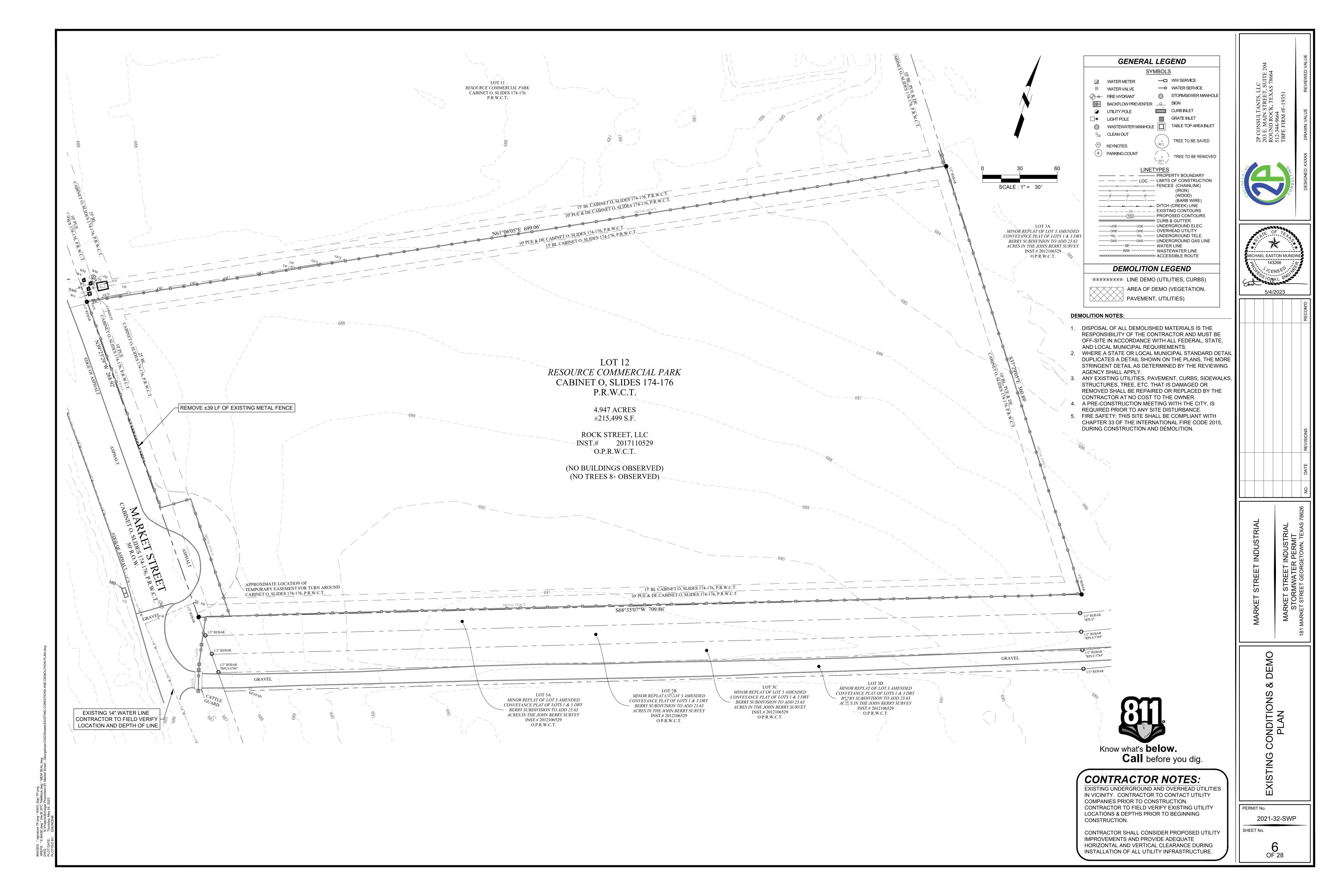
COMMISSIONERS'

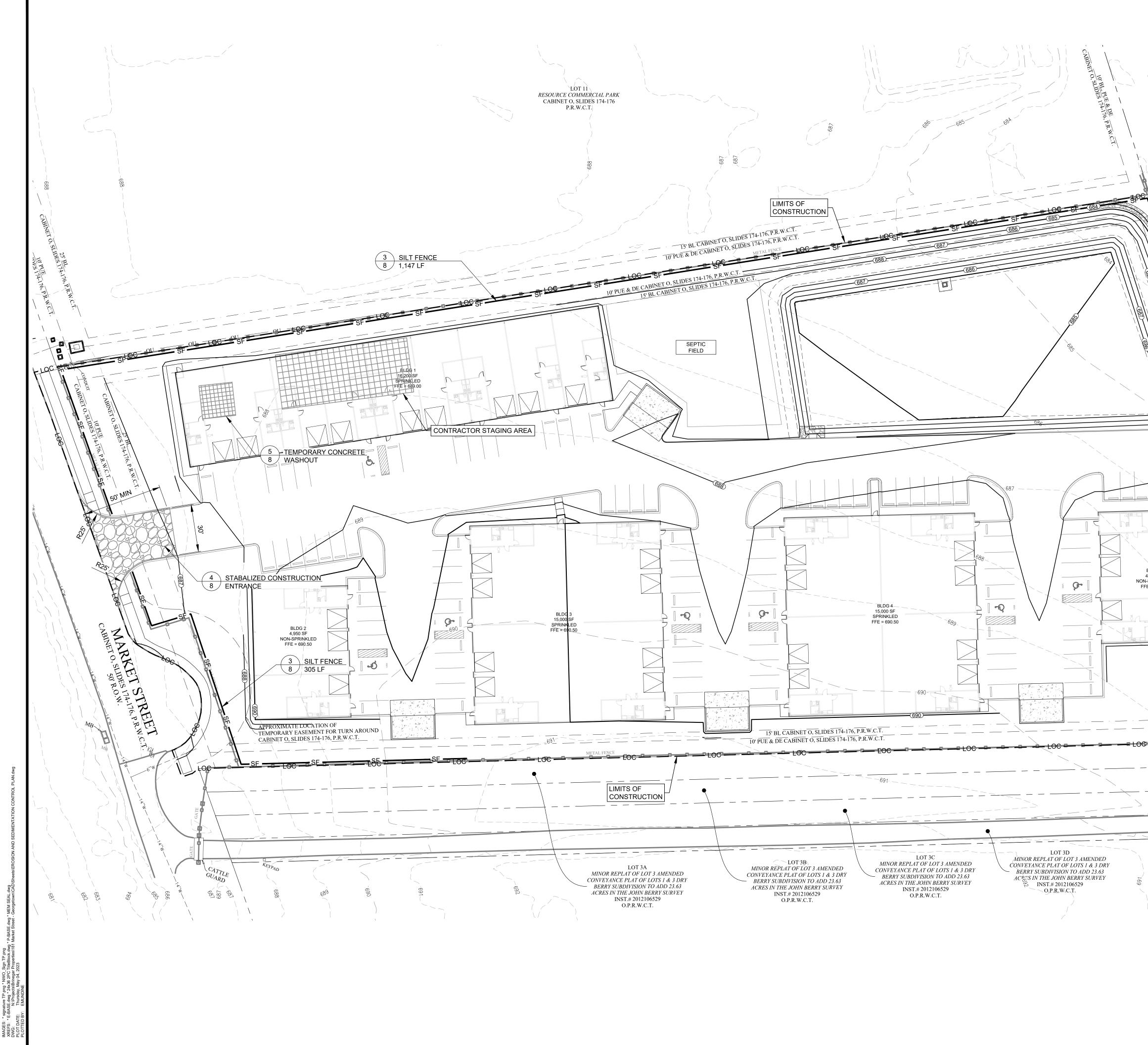
In approving this plat by the Commissioner: understood that the building of all streets, bridges or culverts necessary to be constru owners of the tract of land covered by specifications prescribed by the Commissione Commissioners' Court assumes no obligation to or other public thoroughfares shown on this culverts in connection therewith. It is fu aforesaid obligations of the Developer and the roadways and streets in the subdivision from the date of completion, and all drivew responsibility for maintenance of said stre

It is further understood that the owners of install at their own expense all traffic con before the streets in the subdivision have County.

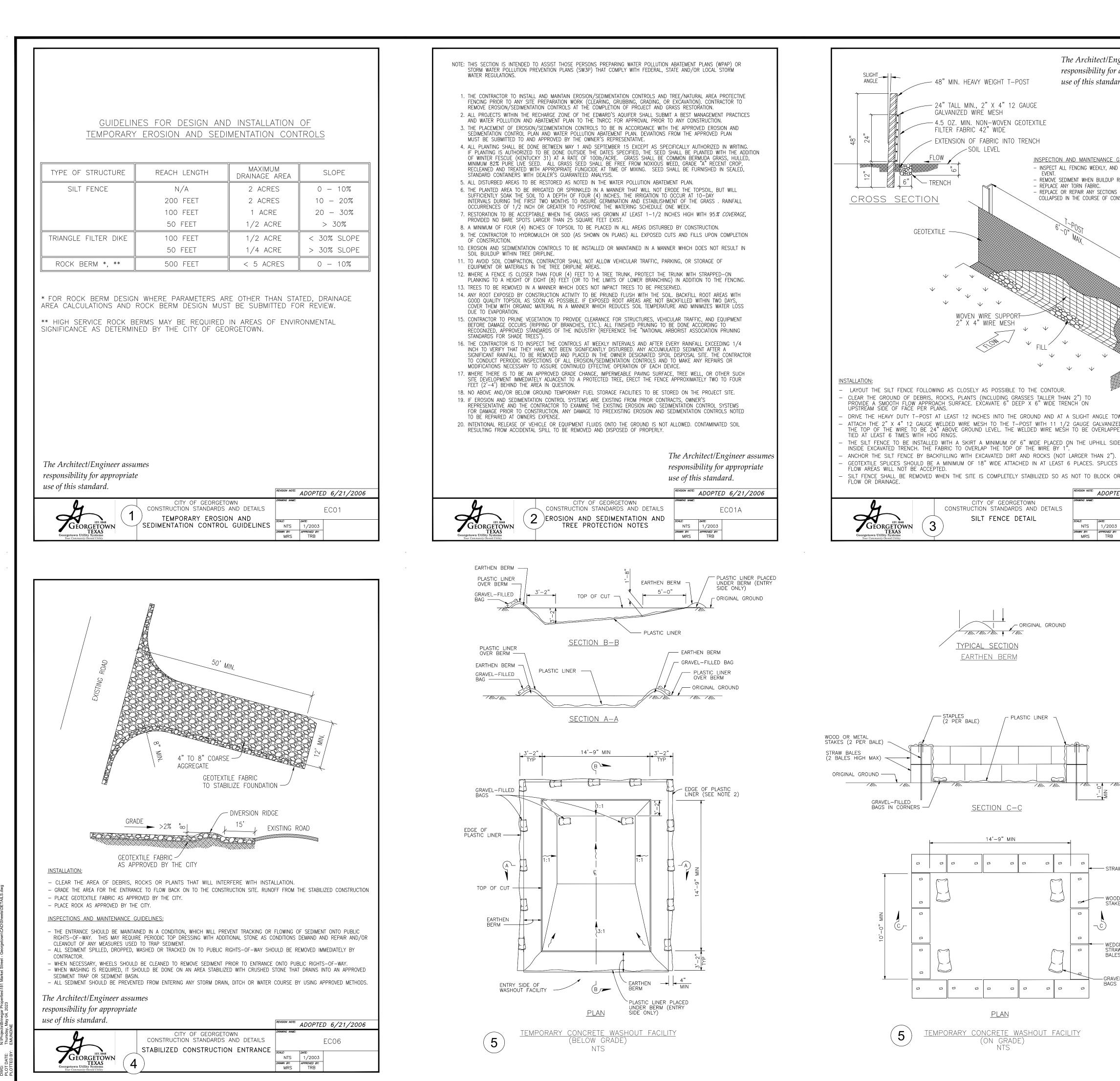
I, John Doerfler, County Judge of Williamso plat, with field notes and surveyors ce COMMERCIAL PARK, a subdivision having been ful Williamson County, Texas, and by the said (and said Plat is authorized to be recorded County Clerk of Williamson County, Texas.

HESE PRESENTS	2P CONSULTANTS, LLC 203 E. MAIN STREET, SUITE 204 2010 ROCK, TEXAS 78664	512-344-9664 TBPE FIRM #F-19351 CONSULTING DESIGNED: XXXX DRAWN: VALUE REVIEWED: VALUE
rust of 1993 Part A, sole owner of the certain tract of land 62, PG. 951 , Official Records of Williamson County, do ne certain tract of land and do hereby subdivide said parcel as note requirements shown hereon, and do hereby dedicate to the way, easements, and public places shown hereon for such public priate. This subdivision is to be known as <u>RESOURCE</u> day of <u>ubrusy</u> , 1996.7	FOR INFORMATIONAL PURPOSES ONLY	
J. D. DORSEY P.O. BOX 314 GEORGETOWN, TEXAS 78627 Tel. 512-869-7302 Fax 512-869-5866		RECOM'D
 L MEN BY THESE PRESENTS on this day personally appeared J. D. Dorsey, ose mane is subscribed to the foregoing instrument is tated. his the for the purposes and consideration in stated. his the for the purposes and consideration in stated. his the for day of adjustment is page. in stated. his the for day of adjustment is page. in stated. his the for day of adjustment is page. in stated. in state s	MARKET STREET INDUSTRIAL	MARKET STREET INDUSTRIAL MARKET STREET INDUSTRIAL STORMWATER PERMIT NO. 181 MARKET STREET GEORGETOWN, TEXAS 78626 NO.
udge Date SHEET 3 OF 3	FINAL PLAT (3 OF 3)	
	SHEET No.	32-SWP

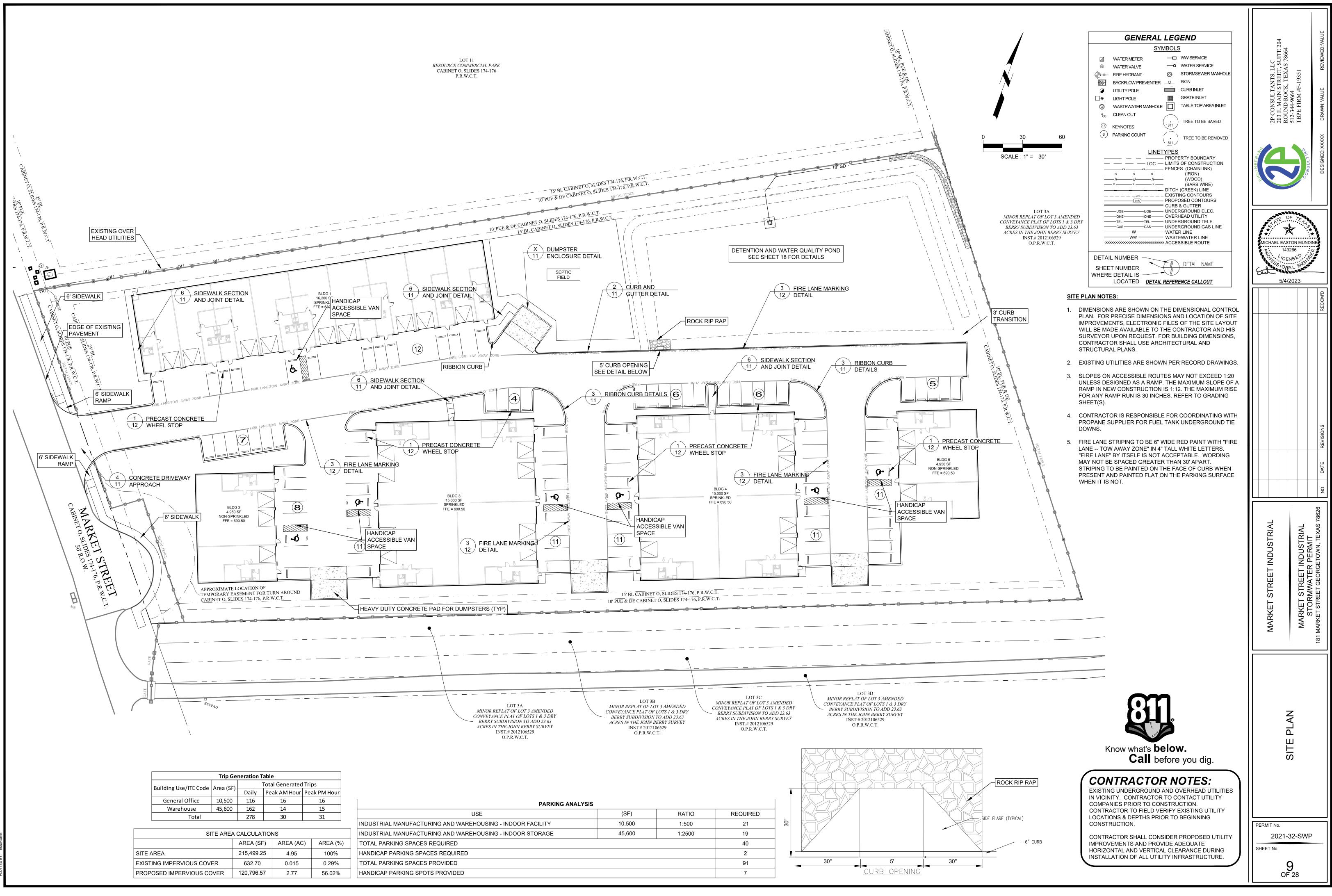


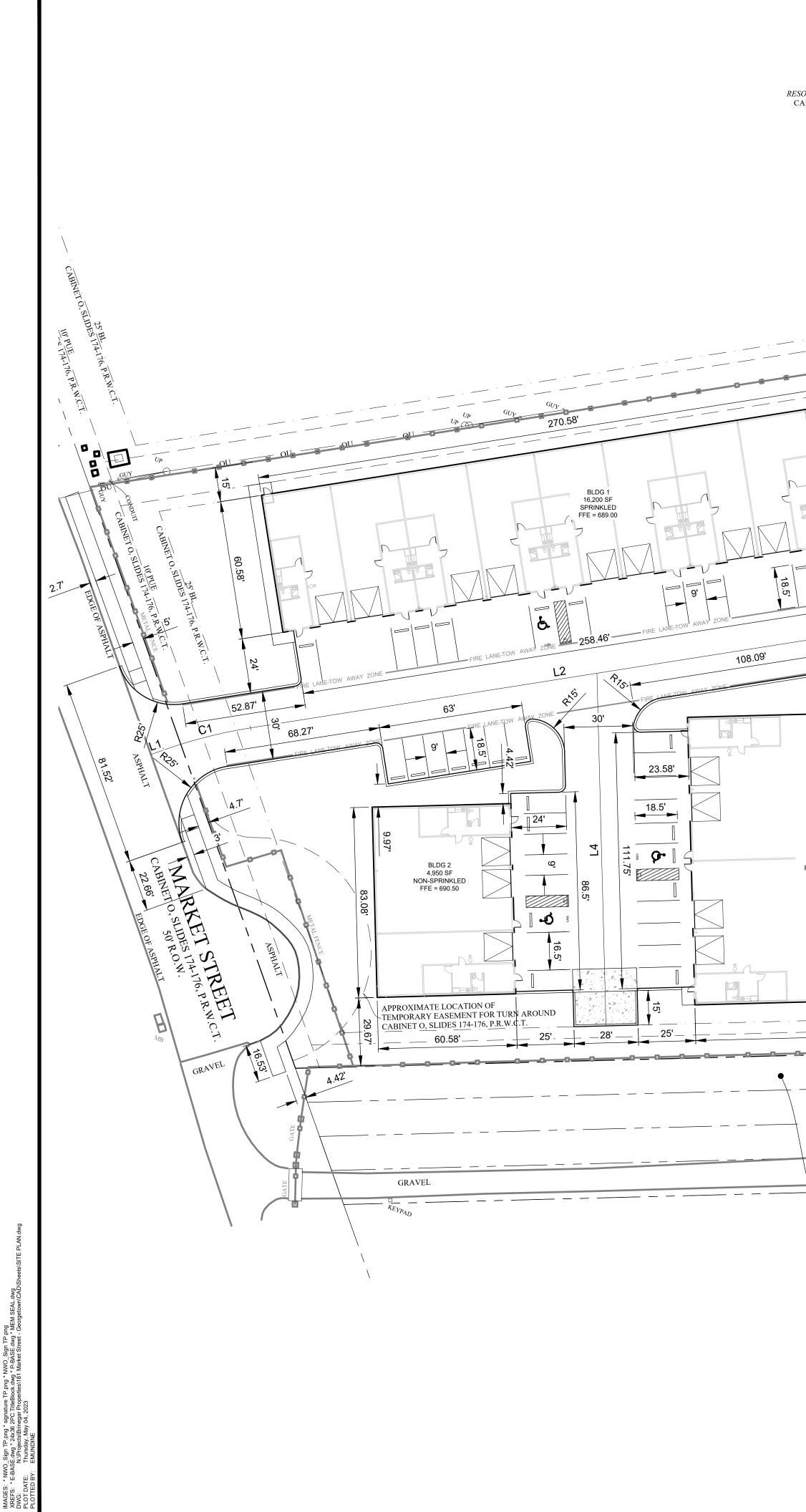


$\int_{1}^{1} \int_{1}^{1} \int_{1$	GENERAL LEGEND SYMBOLS WATER METER Image: Colspan="2">WW SERVICE WATER VALVE O WATER SERVICE WATER HYDRANT STORMSEWER MANHOLE Matter Hydrant Stormsewer Manhole Matter Valve O Stormsewer Manhole Matter Hydrant Stormsewer Manhole Stormsewer Manhole Matter Hydrant Grade Grade Stormsewer Manhole Matter Hydrant Grade Grade Grade Grade Matter Hydrant Matter Hydrant Grade Grade Grade Matter Hydrant Matter Hydrant Grade Stormsewer Manhole Matter Hydrant Matter Hydrant Matter Hydrant Matter Hydrant Matter Hydrant Matter Hydrant Matter Hydrant Matter Hydrant Matter Hydrant	2P CONSULTANTS, LLC 203 E. MAIN STREET, SUITE 204 2010D ROCK, TEXAS 78664	DESIGNED: XXXX DRAWN: VALUE REVIEWED: VALUE
LOT 3A MINOR REPLAT OF LOT 3 AMENDED CONVEYANCE PLAT OF LOT 3 AMENDED CONVEYANCE PLAT OF LOTS 1 & 3 DRY BERRY SUBDIVISION TO ADD 23.63 ACRES IN THE JOHN BERRY SURVEY INST.# 2012106529 O.P.R.W.C.T. 3 SILT FENCE 8 1,147 LF		MICHAEL EAST P: 1432 P: 1432 P: 1432 S: /OYA 5/4/2	266 NSED. NA NL ENG
BLDG 5 4.950 SF	LP LOW POINT HP HIGH POINT NOTES: 1. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER CITY CODE, OR AS DIRECTED BY THE OWNERS REPRESENTATIVE. 2. SILT FENCE TYPE AND INSTALLATION SHALL COMPLY WITH DETAIL. 3. ALL DISTURBED AREAS SHALL BE REVEGETATED WITH NATIVE GRASSES (REFER TO NOTE SHEET FOR SPECS). ALL DISTURBED AREAS WITH SLOPES 5:1 OR STEEPER, WHICH ARE NOT ARMORED OTHERWISE, SHALL HAVE A SOIL RETENTION BLANKET (EXCELSIOR II OR APPROVED EQUAL) INSTALLED TO ASSIST WITH REVEGETATION. DETAIL NUMBER WHERE DETAIL IS LOCATED <u>JETAIL REFERENCE CALLOUT</u> ESTIMATED ESC QUANTITIES:		NO. DATE REVISIONS
E = 690.50	LIMITS OF CONSTRUCTION = 5.00 AC. SILT FENCE = $\pm 1,452$ LF TREE PROTECTION FENCE = ± 0 LF ROCK BERM = ± 0 LF <u>NOTE:</u> THESE VALUES ARE APPROXIMATE AND SHOULD NOT BE USED FOR BIDDING AND/OR CONSTRUCTION PURPOSES. CONTRACTOR TO VERIFY EROSION AND SEDIMENTATION CONTROL QUANTITIES. <u>ESC NOTES:</u> 1. NO TREES 8" OR BIGGER ARE OBSERVED ON SITE.	MARKET STREET INDUSTRIAL	MARKET STREET INDUSTRIAL STORMWATER PERMIT 181 MARKET STREET GEORGETOWN, TEXAS 78626
	With the second state of the second	₩	CONTROL PLAN
	COMPANIES PRIOR TO CONSTRUCTION. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS & DEPTHS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL CONSIDER PROPOSED UTILITY IMPROVEMENTS AND PROVIDE ADEQUATE HORIZONTAL AND VERTICAL CLEARANCE DURING INSTALLATION OF ALL UTILITY INFRASTRUCTURE.	PERMIT No. 2021-3 SHEET No. OF	82-SWP 7 28



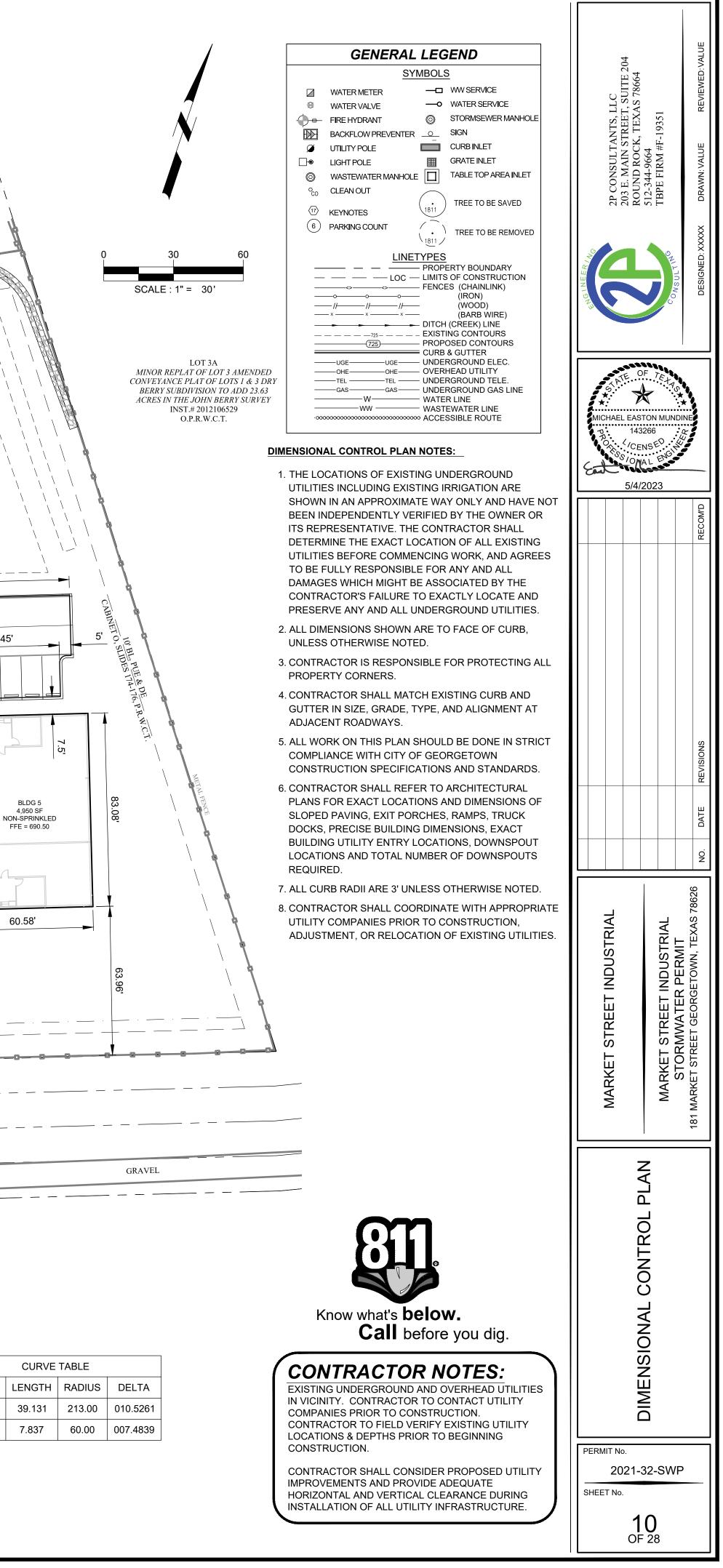
	EL-FILLED 5 IN CORNERS	GE LOOSE W BETWEEN	AW BALES				ED T-POST CLIPS. DE OF THE FENCE S IN CONCENTRATED DR IMPEDE STORM TED 6/21/2006 ECO2	WARDS THE FLOW.	GUIDELINES: D AFTER ANY RAINFALL REACHES 6 INCHES. S CRUSHED OR INSTRUCTION ACTIVITY.	agineer assumes appropriate ard.
PERMIT No. 2021-3 SHEET No.	EROS	ION & SEDI	EROSION & SEDIMENTATION	MARKET STREET INDUSTRIAL	TRIAL			MICHAEL EAST D: 1432 D: 1432 D	2P CONSULTANTS, LLC 203 E. MAIN STREET, SU ROUND ROCK, TEXAS 7	2P CONSULTANTS, LLC 203 E. MAIN STREET, SUITE 204 ROUND ROCK, TEXAS 78664
2-SWP 3 28		DETAI	S	MARKET STREET INDUSTRIAL STORMWATER PERMIT 181 MARKET STREET GEORGETOWN, TEXAS 78626	TRIAL IIT TEXAS 78626	NO. DATE REVI	REVISIONS	ISED. IN	DESIGNED: XXXXX DRAWN: VALUE	· #F-19351 ιε reviewed:value

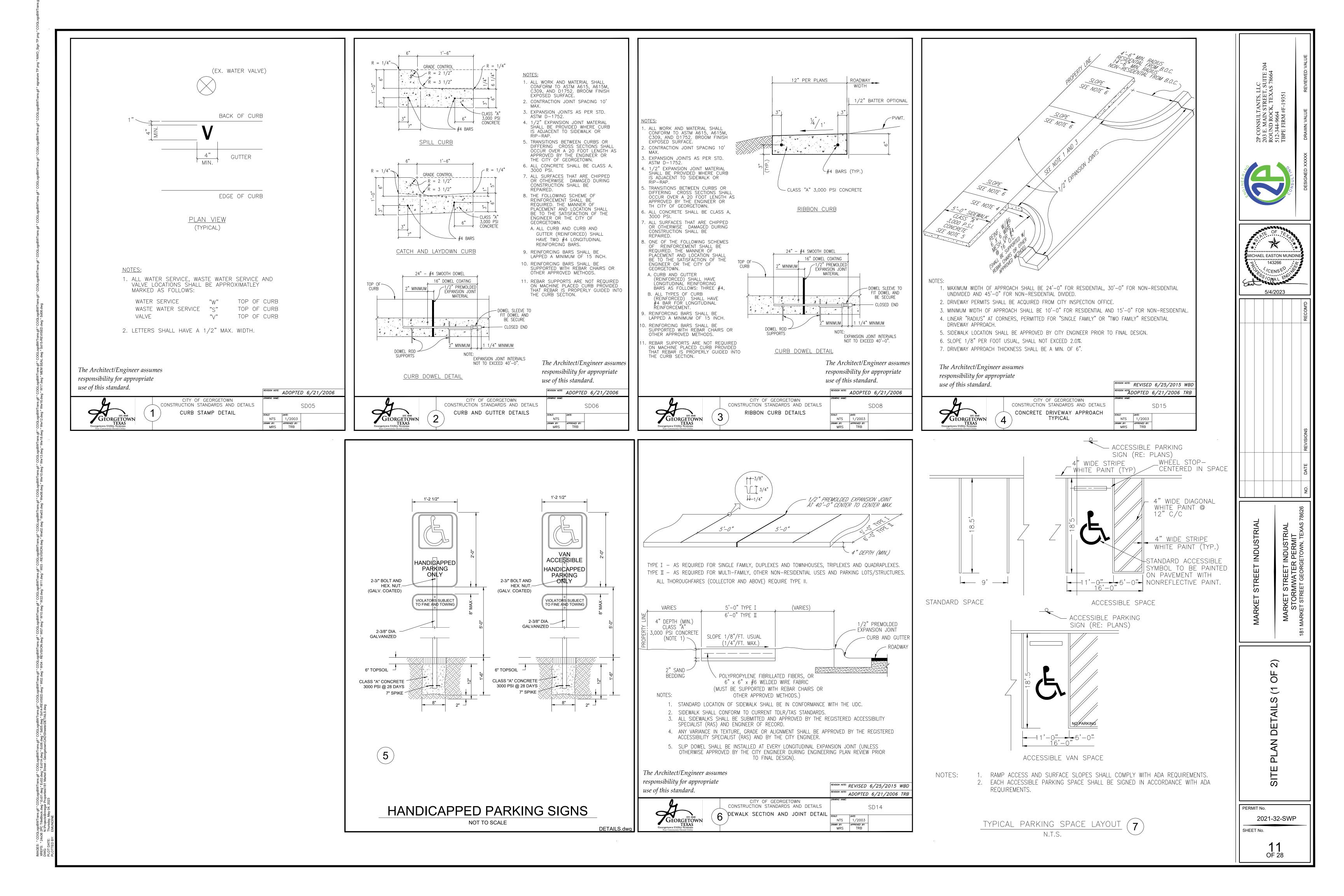




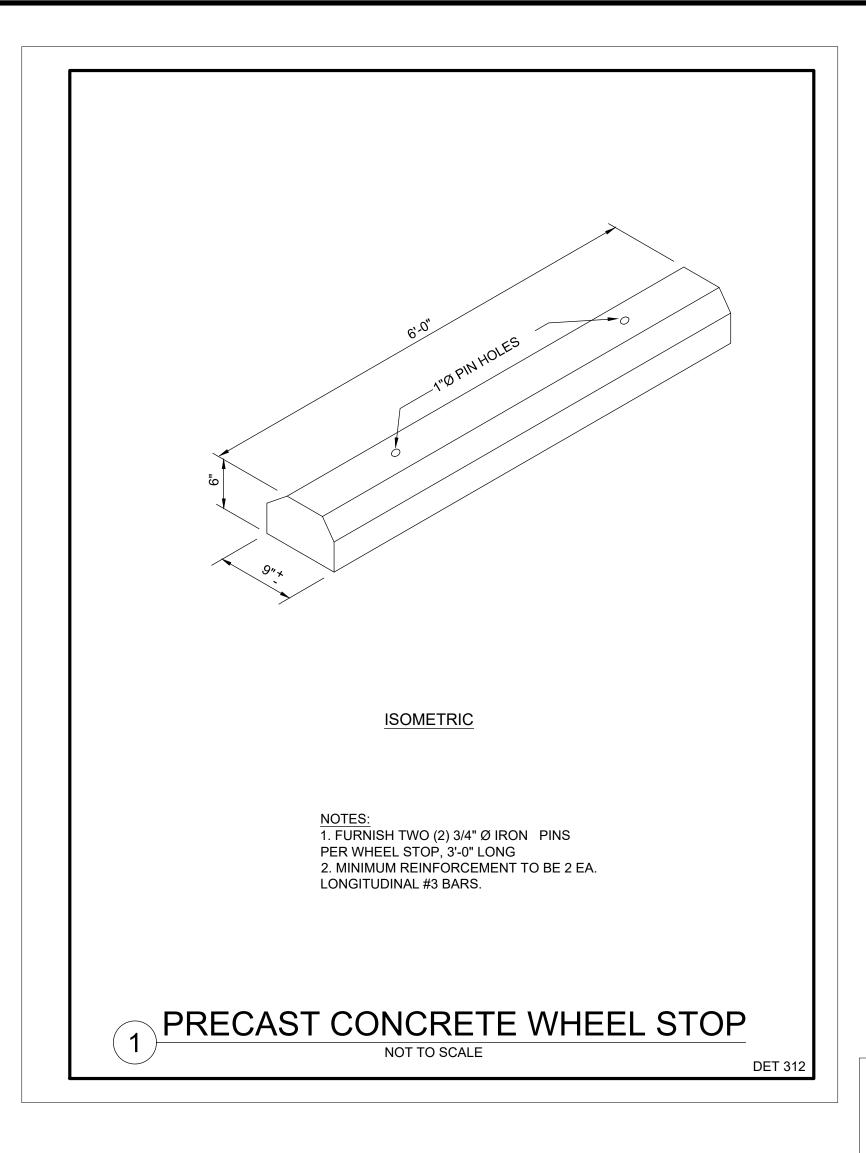
LOT 11 ESOURCE COMMERCIAL PARK CABINET O, SLIDES 174-176 P.R.W.C.T.				ABINET O, SLIDES 174-176, P.R.W.C.T.
T5' BL CABINET O, SLI T0' PUE & DE CABINET O, SLIDES 174-176, P.R.W.C.T 10' PUE & DE CABINET O, SLIDES 174-176, P.R.W.C.T 15' BL CABINET O, SLIDES 174-176, P.R. 15' BL CABINET O, SLIDES 174-176, P.R. SEPTIC FIELD			AND WATER QUALITY POND HEET 18 FOR DETAILS	
PRE LANE TOW AWAY ONE PRE LANE TOW AWAY ONE	54'		AWAY ZONE THE LANE-TO	
LOT 3A METAL FENCE METAL FENCE METAL FENCE METAL FENCE METAL FENCE LOT 3A MINOR REPLAT OF LOT 3 AMENDED CONVEYANCE PLAT OF LOTS 1 & 3 DRY BERRY SUBDIVISION TO ADD 23.63 ACRES IN THE JOHN BERRY SURVEY INST.# 2012106529 O.P.R.W.C.T.	LOT 3B MINOR REPLAT OF LOT 3 AMENDED CONVEYANCE PLAT OF LOT 3 I & 3 DRY BERRY SUBDIVISION TO ADD 23.63 ACRES IN THE JOHN BERRY SURVEY INST.# 2012106529 O.P.R.W.C.T.	6, P.R.W. 120.58'	& 3 DRY D 23.63 BERRY SUBDIVISION ACRES IN THE JOHN H	OT 3 AMENDED 5 LOTS 1 & 3 DRY 7 TO ADD 23.63 BERRY SURVEY 06529
O.P.R.W.C.T.			LINE TABLE LINE # LENGTH BEARING L1 5.97 N50° 34' 30.99' L2 274.24 N61° 06' 04.99' L3 363.24 N68° 35' 06.99' L4 153.96 N21° 24' 53.01'' L5 170.25 N21° 24' 53.01''	"E C2 "E 'W 'W

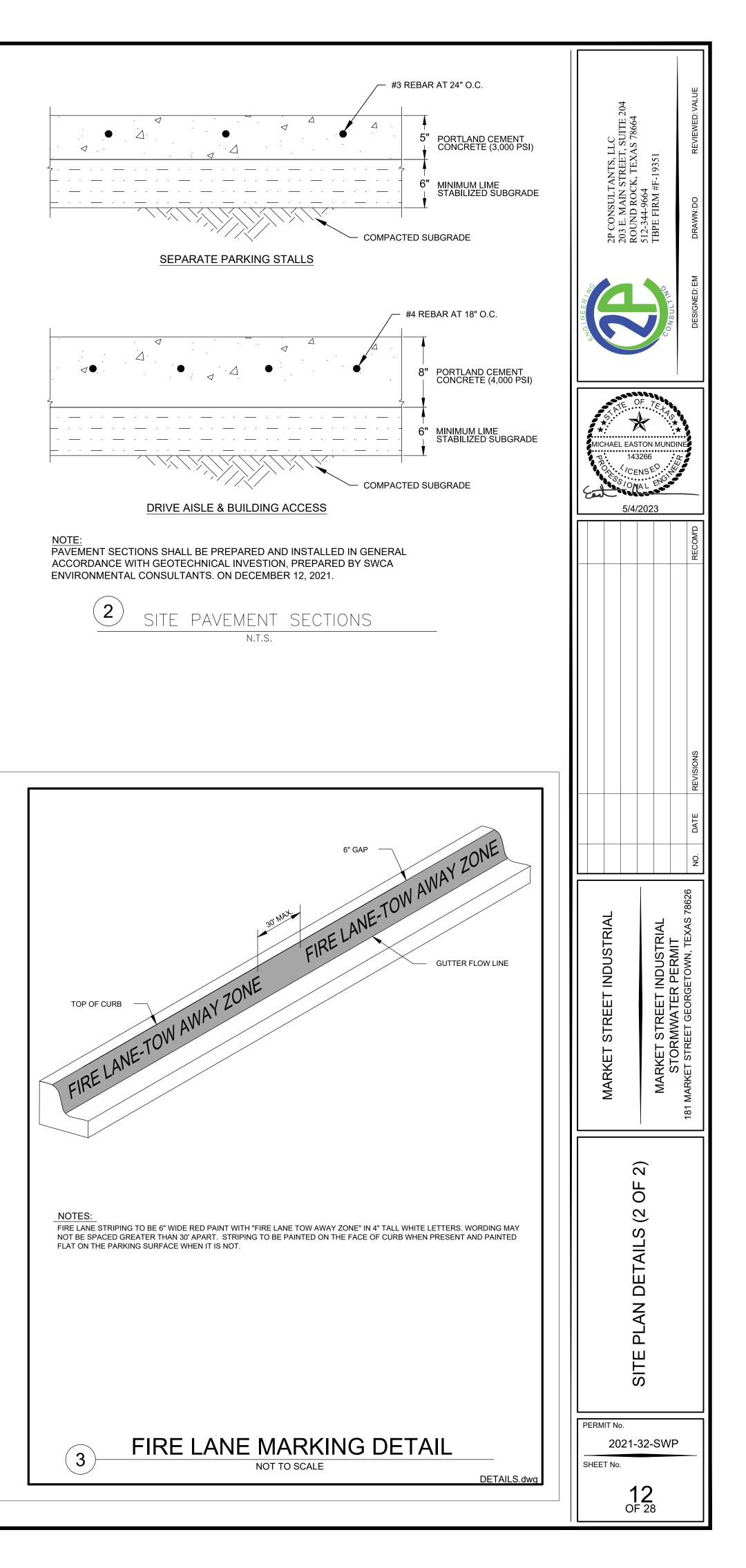
L6 170.25 N21° 24' 53.01"W





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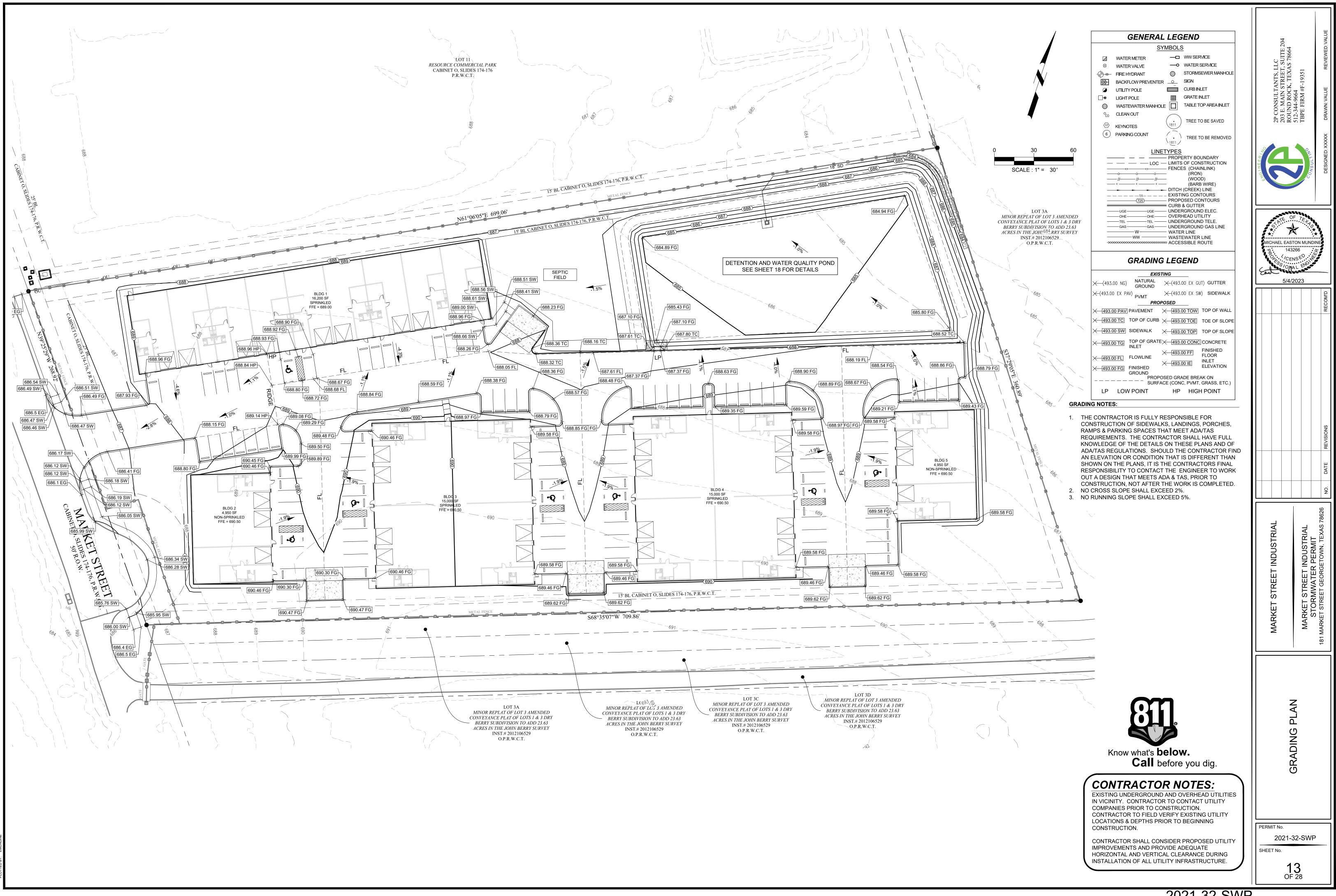
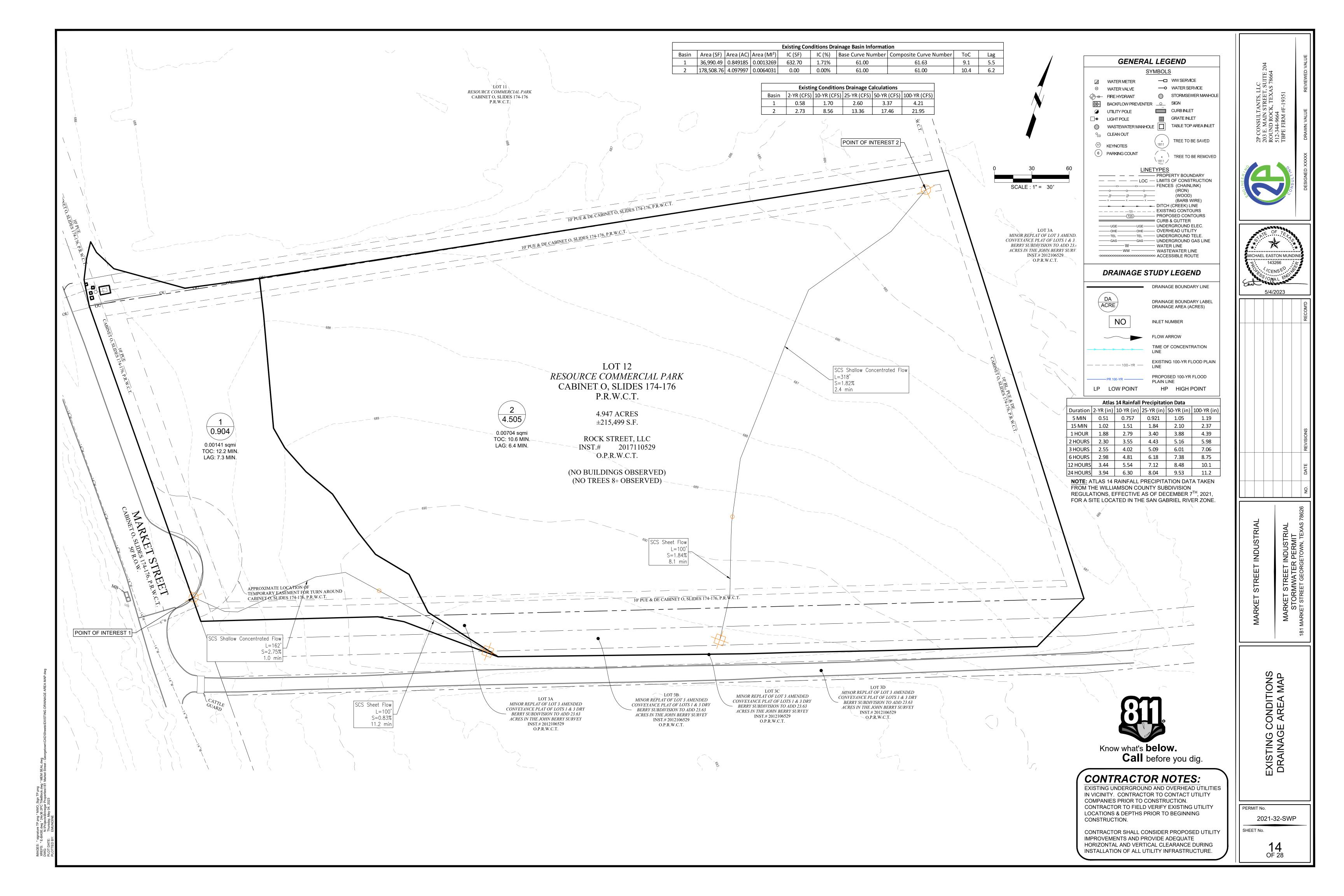
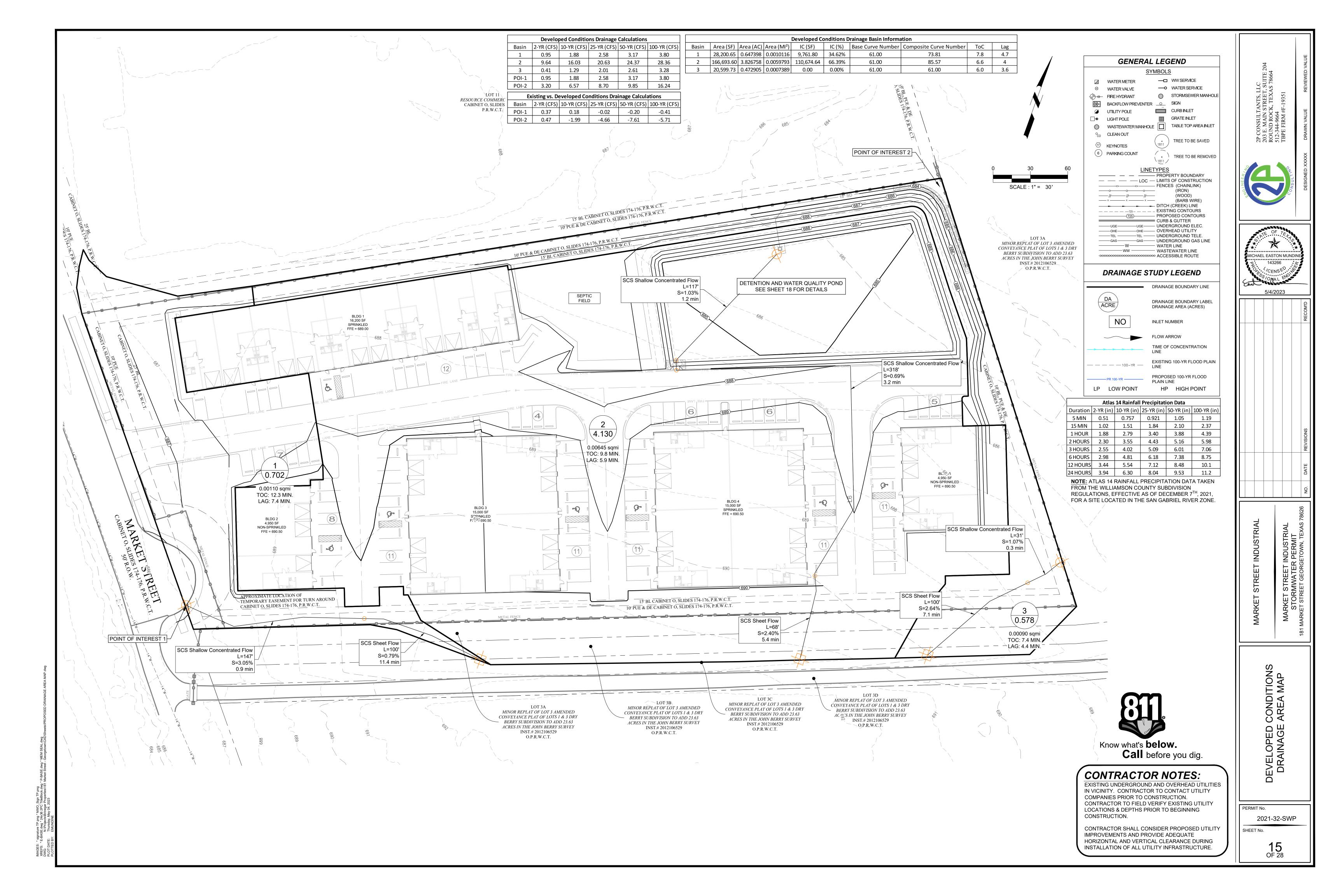
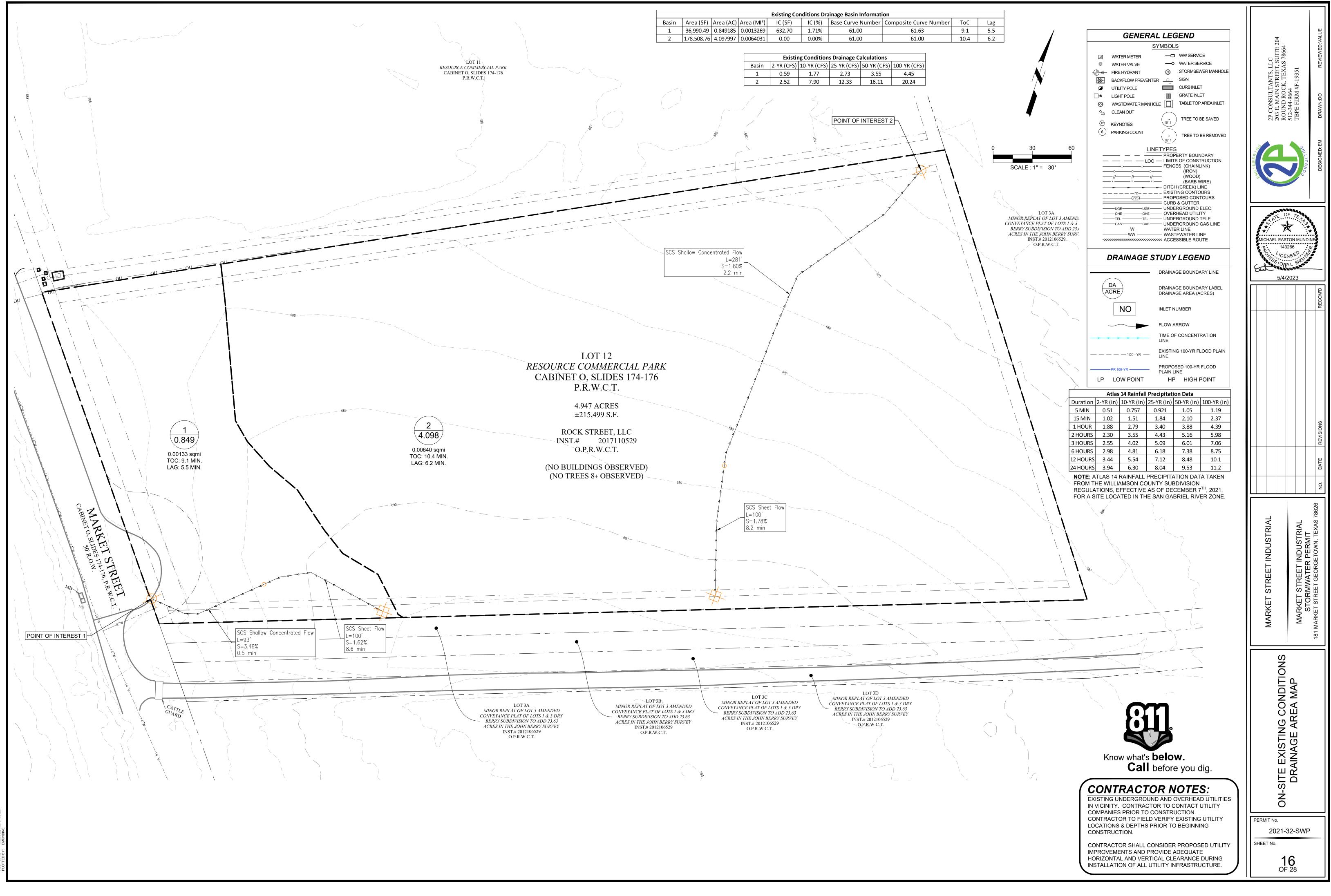


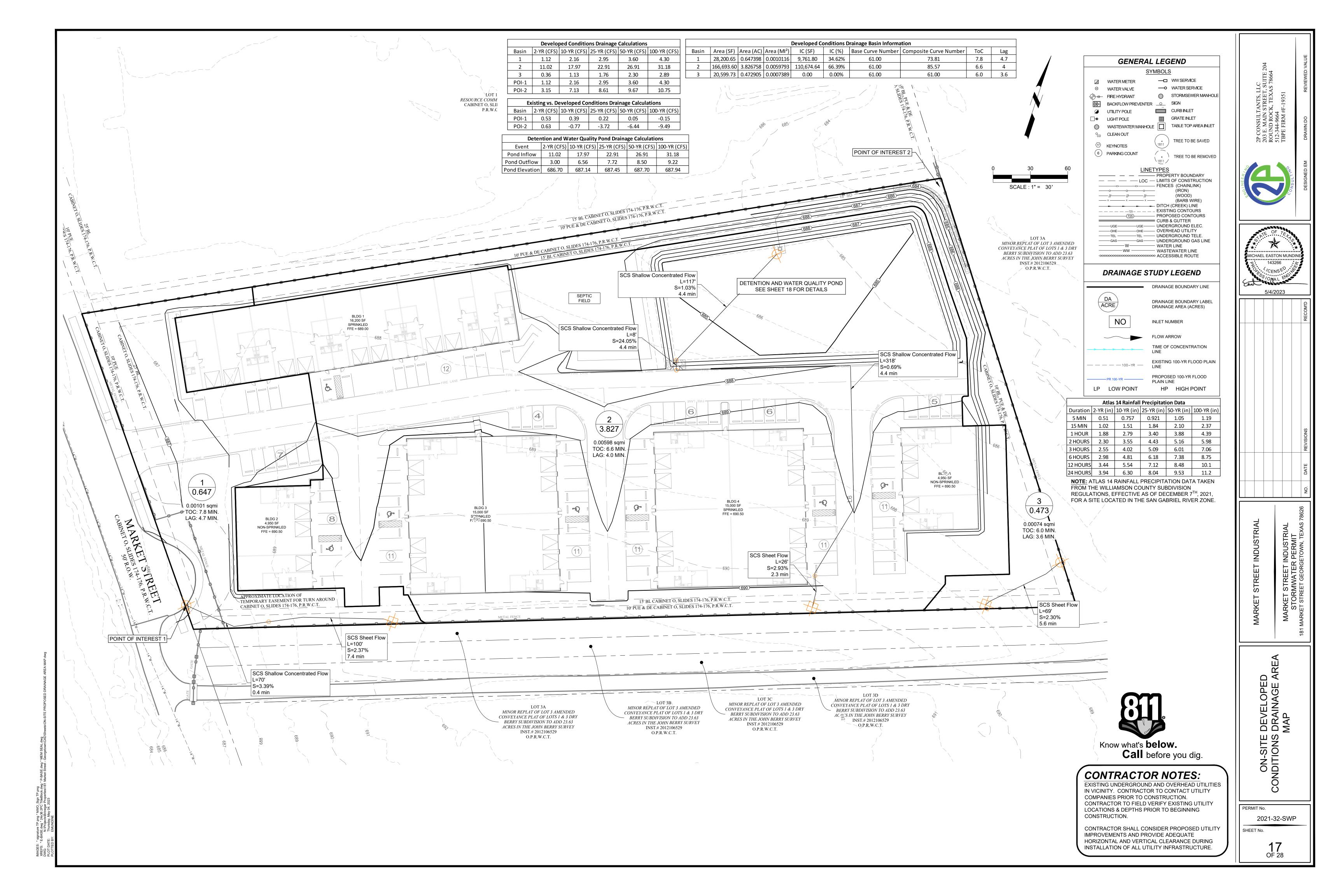
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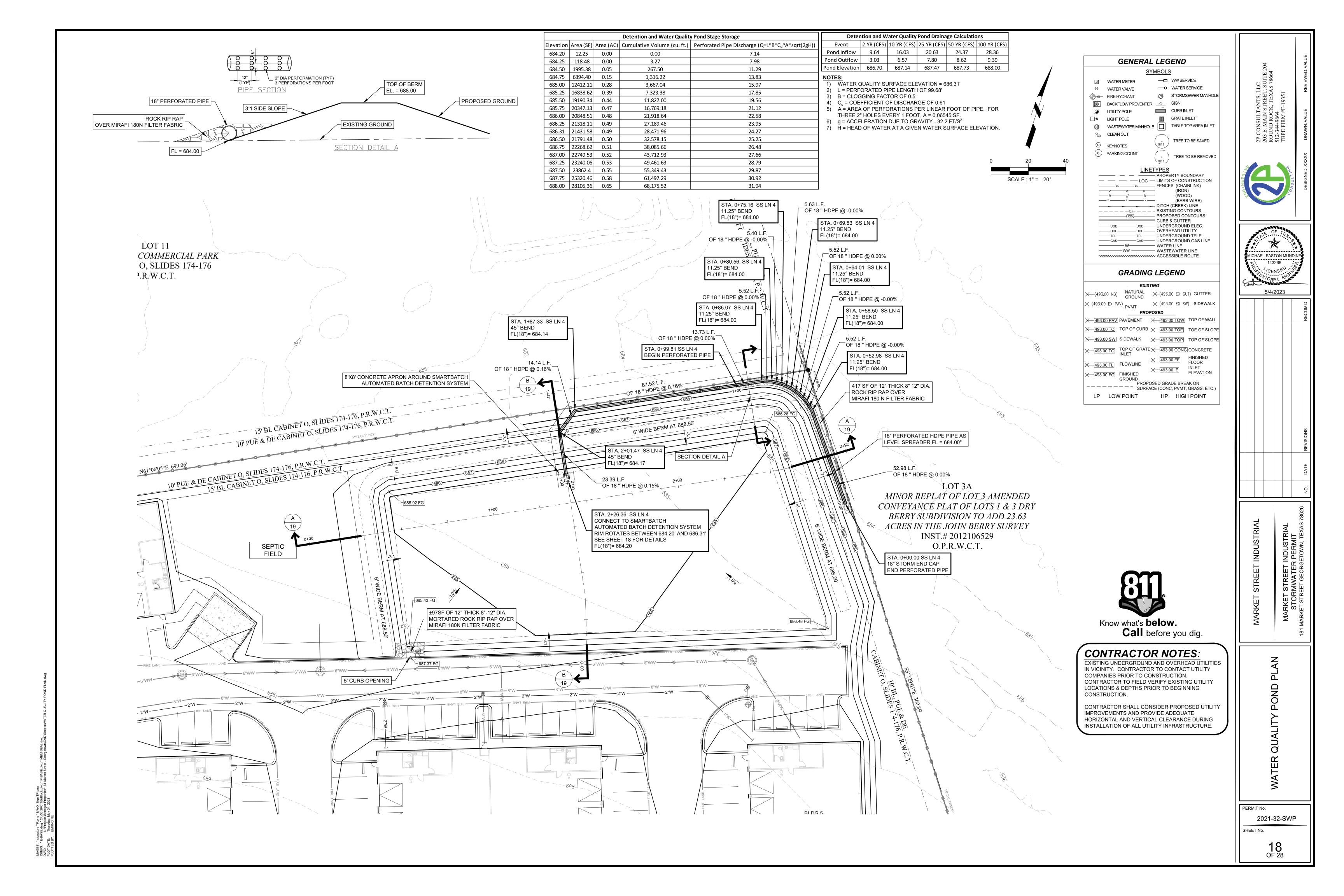
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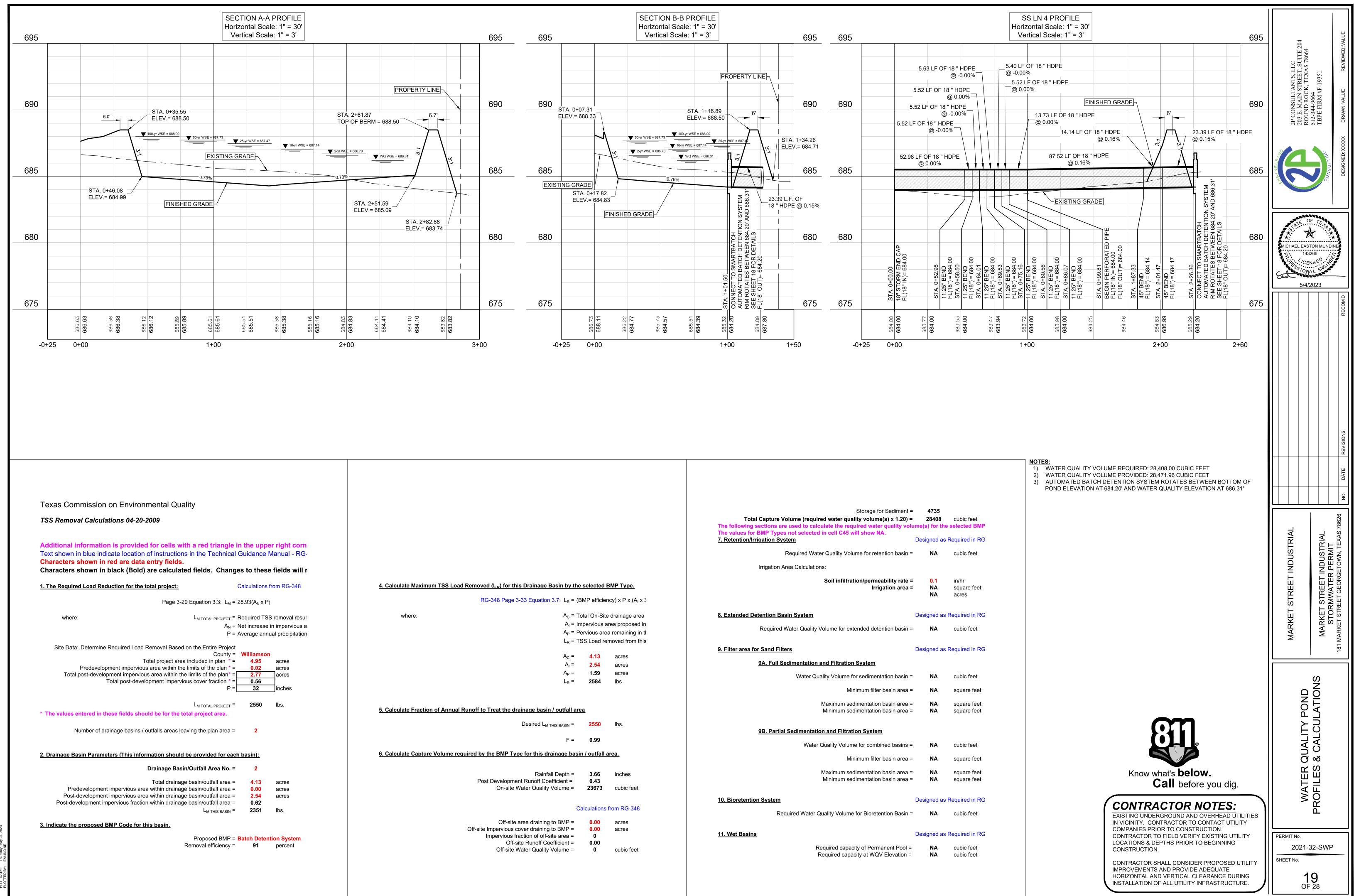




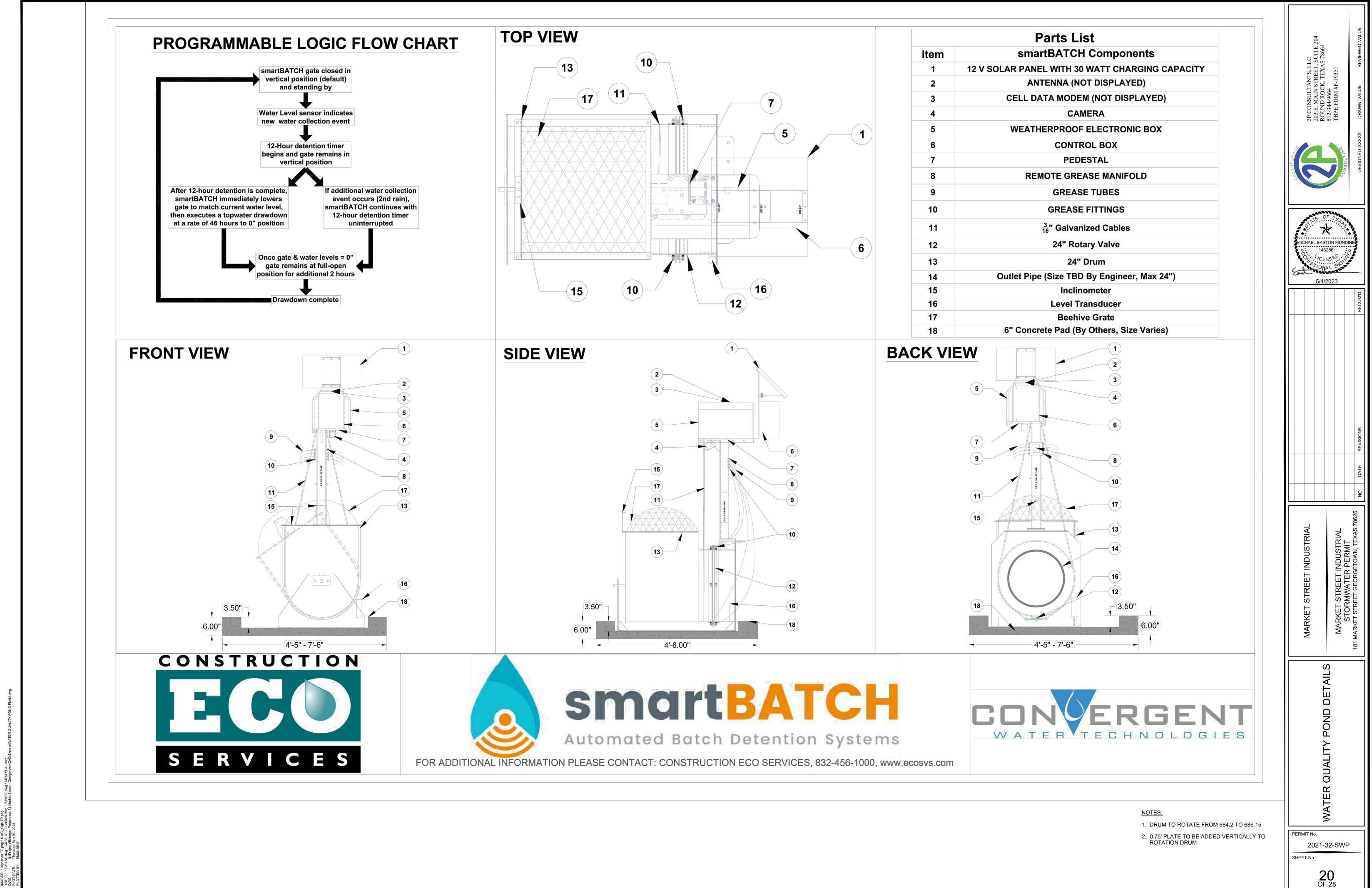


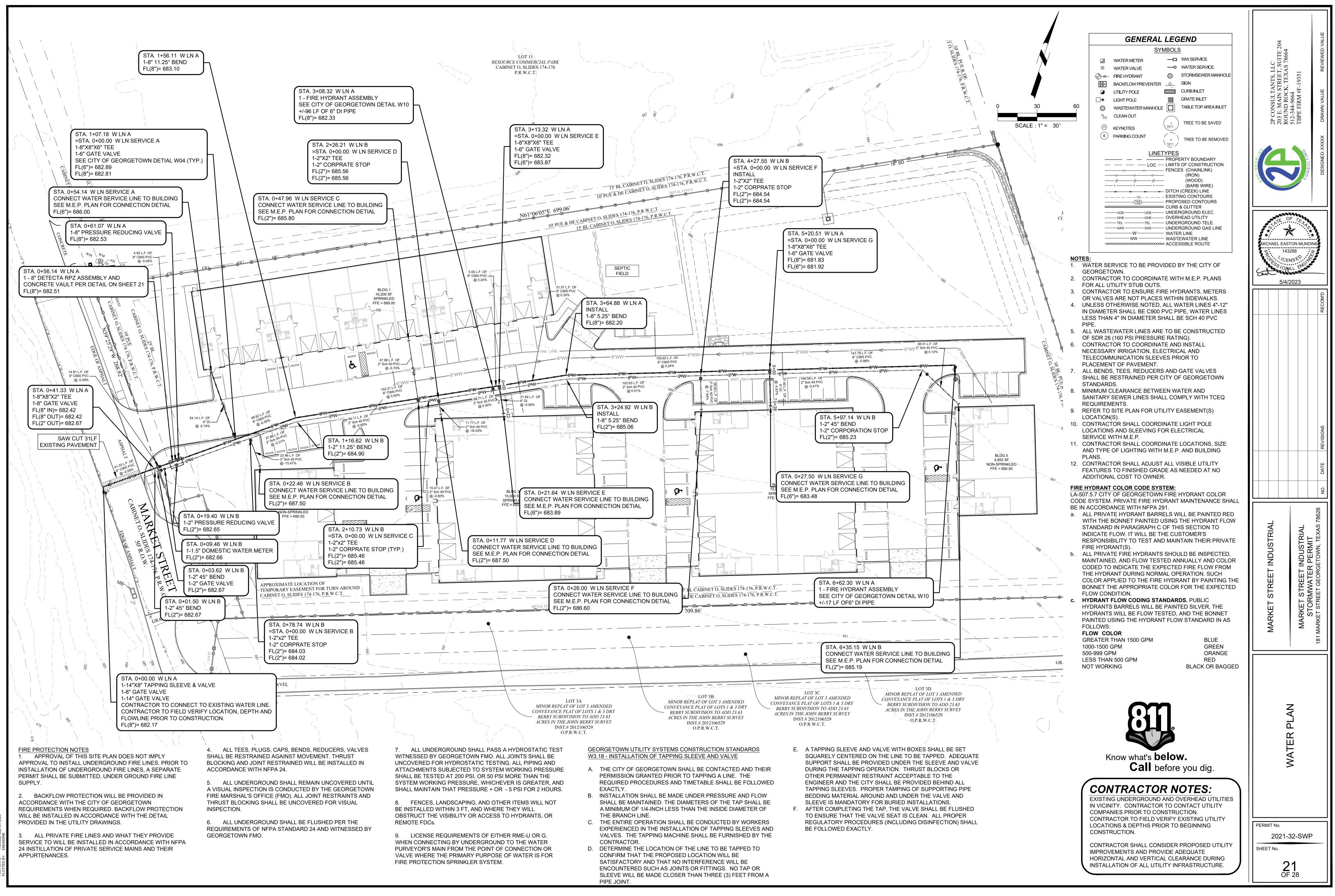




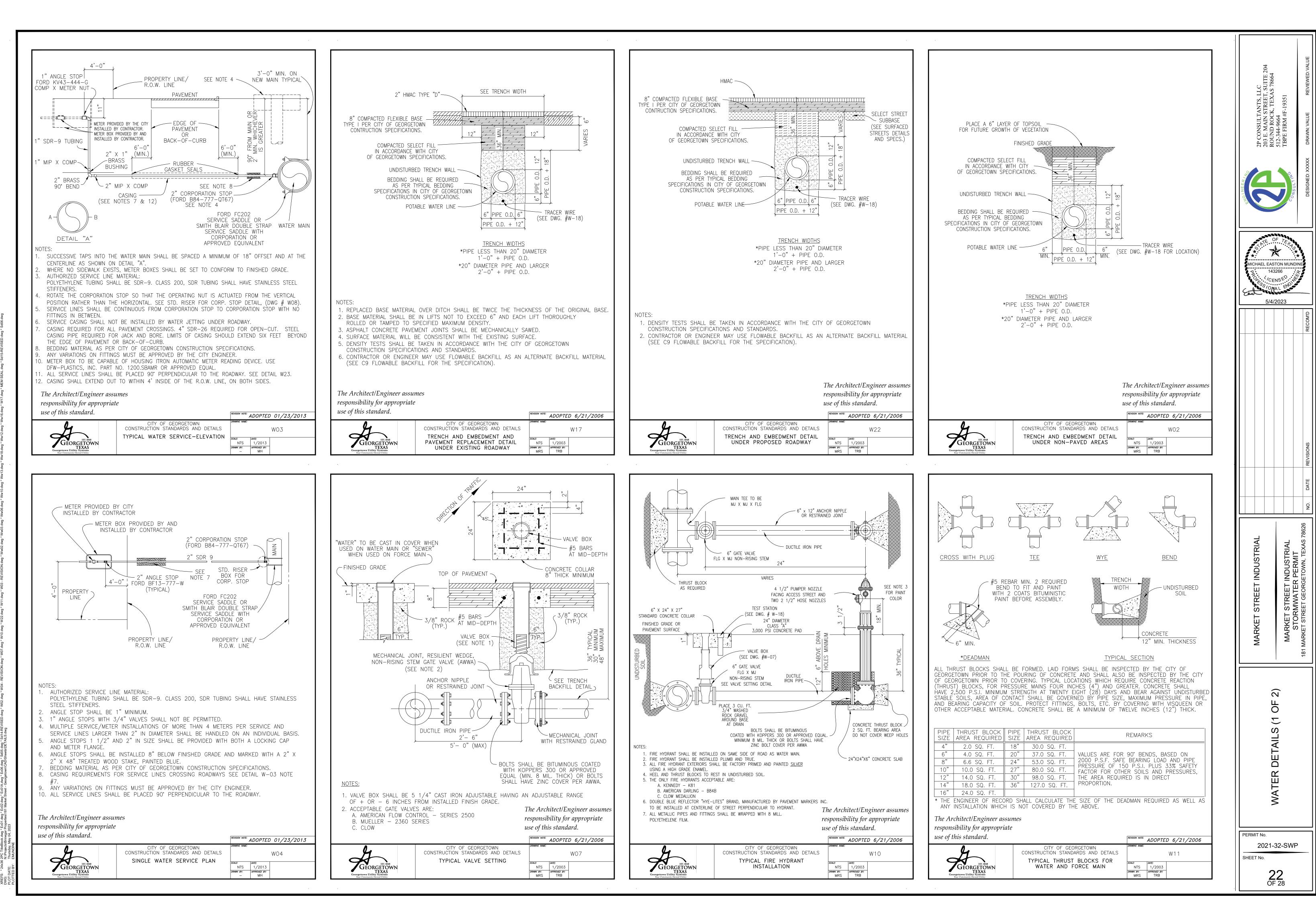


Required Water Quality Volume for retention basin = N	A
Irrigation Area Calculations:	
Load Removed (L _R) for this Drainage Basin by the selected BMP Type.).1 NA NA
RG-348 Page 3-33 Equation 3.7: L _R = (BMP efficiency) x P x (A _I x 3	NA
A _C = Total On-Site drainage area 8. Extended Detention Basin System Designed A _L = Impervious area proposed in	ied as
A_{P} = Pervious area remaining in ti L_{R} = TSS Load removed from this	A
9. Filter area for Sand Filters Designed	ed as
A_c =4.13acresA_l =2.54acres9A. Full Sedimentation and Filtration System	
$A_P =$ 1.59 acres $L_R =$ 2584 lbs Water Quality Volume for sedimentation basin = N	A
	A
	NA NA
Desired L _{M THIS BASIN} = 2550 lbs. 9B. Partial Sedimentation and Filtration System	
F = 0.99 Water Quality Volume for combined basins = N	A
ne required by the BMP Type for this drainage basin / outfall area. Minimum filter basin area = N	A
	NA NA
On-site Water Quality Volume = 23673 cubic feet	
<u>10. Bioretention System</u> Designe	ed as
Calculations from RG-348 Required Water Quality Volume for Bioretention Basin = N	A
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 11. Wet Basins	ied as
	NA NA



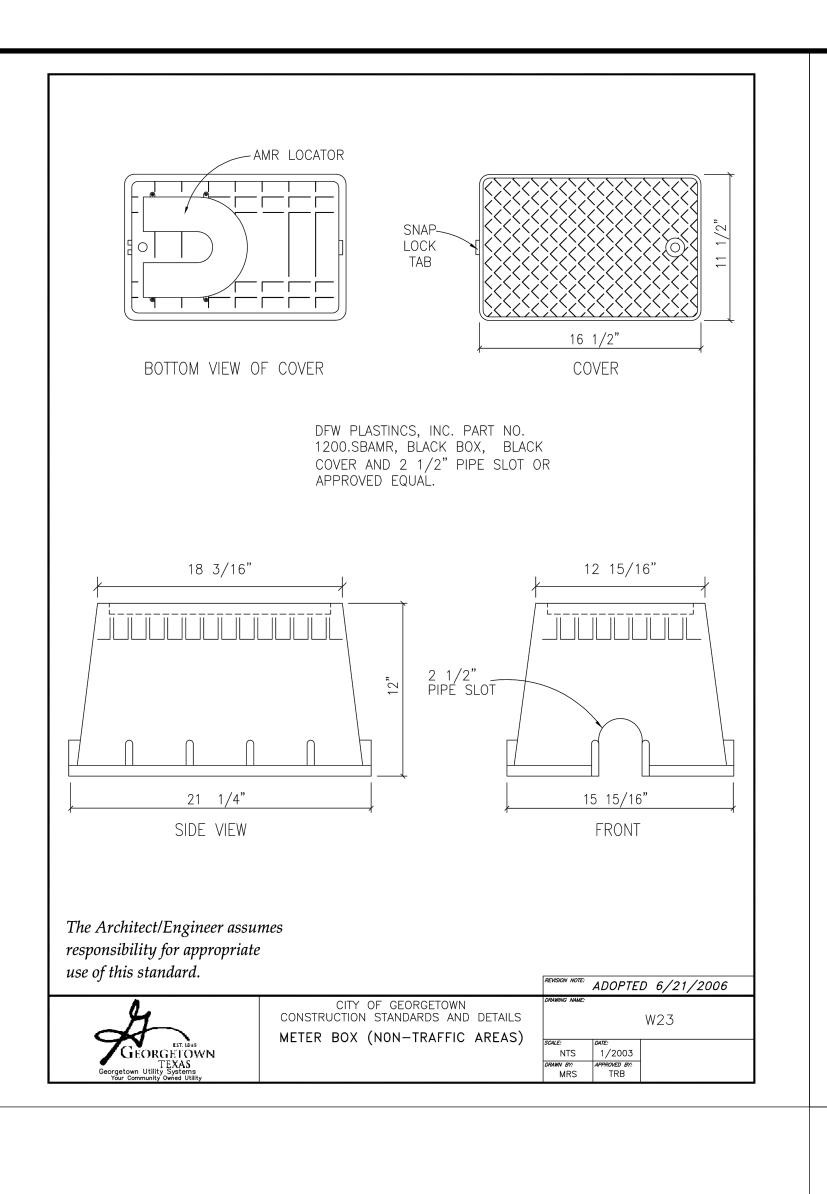


AGES: * signature TP.png * NWO_Sign TP.png (REFS: * E-BASE.dwg * 24x36 2PC TitleBlock dwg * P-BASE.dwg * MEM SEAL.dwg WG: NTNFDedet8lbinegar Properties(181 Market Street - Georgetown)CADISheets(WATER PLAN.dwg MCT_NATE: Thursday May.0.4 2014)



NAG DWG







Job Name
Job Location
Engineer
Approval

LEAD FREE*

Series 4000SS **Reduced Pressure Zone Assemblies**

Sizes: 12"

Series 4000SS Reduced Pressure Zone Assemblies are designed to provide protection of the potable water supply in accordance with national codes. This series can be used where approved by the local authority having jurisdiction on health-hazard cross-connections. Series 4000SS features short lay length, lightweight stainless steel body, corrosive resistant stainless steel relief valve, and patented cam-check assembly.

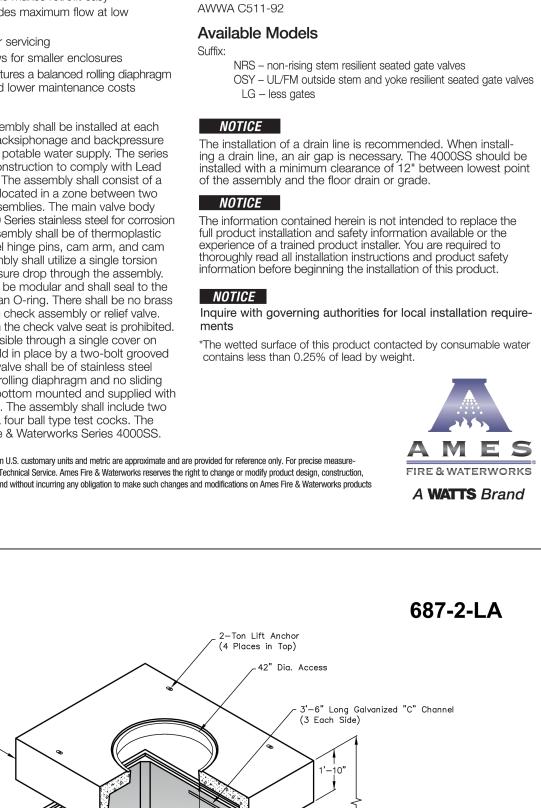
Features

- Stainless steel construction provides long term corrosion resistance and maximum strength • Stainless steel body is half the weight of competitive designs
- reducing installation & shipping costs Short end-to-end dimensions makes retrofit easy
- Cam-check assembly provides maximum flow at low
- pressure drop No special tools required for servicing
- Compact construction allows for smaller enclosures • Stainless steel relief valve features a balanced rolling diaphragm to eliminate sliding seals and lower maintenance costs

Specifications

A Reduced Pressure Zone Assembly shall be installed at each cross-connection to prevent backsiphonage and backpressure of hazardous materials into the potable water supply. The series 4000SS features Lead Free* construction to comply with Lead Free* installation requirements. The assembly shall consist of a pressure differential relief valve located in a zone between two positive seating cam-check assemblies. The main valve body shall be manufactured from 300 Series stainless steel for corrosion resistance. The cam-check assembly shall be of thermoplastic construction with stainless steel hinge pins, cam arm, and cam bearing. The cam-check assembly shall utilize a single torsion spring design to minimize pressure drop through the assembly. The cam-check assembly shall be modular and shall seal to the main valve body by the use of an O-ring. There shall be no brass or bronze parts used within the check assembly or relief valve. The use of seat screws to retain the check valve seat is prohibited. All internal parts shall be accessible through a single cover on the valve assembly securely held in place by a two-bolt grooved coupling. The differential relief valve shall be of stainless steel construction and shall utilize a rolling diaphragm and no sliding seals. The relief valve shall be bottom mounted and supplied with a steel reinforced sensing hose. The assembly shall include two resilient seated shutoff valves & four ball type test cocks. The assembly shall be an Ames Fire & Waterworks Series 4000SS.

Ames Fire & Waterworks product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Ames Fire & Waterworks Technical Service. Ames Fire & Waterworks reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Ames Fire & Waterworks products previously or subsequently sold.



Contractor

NOTICE

Standards

air gap.

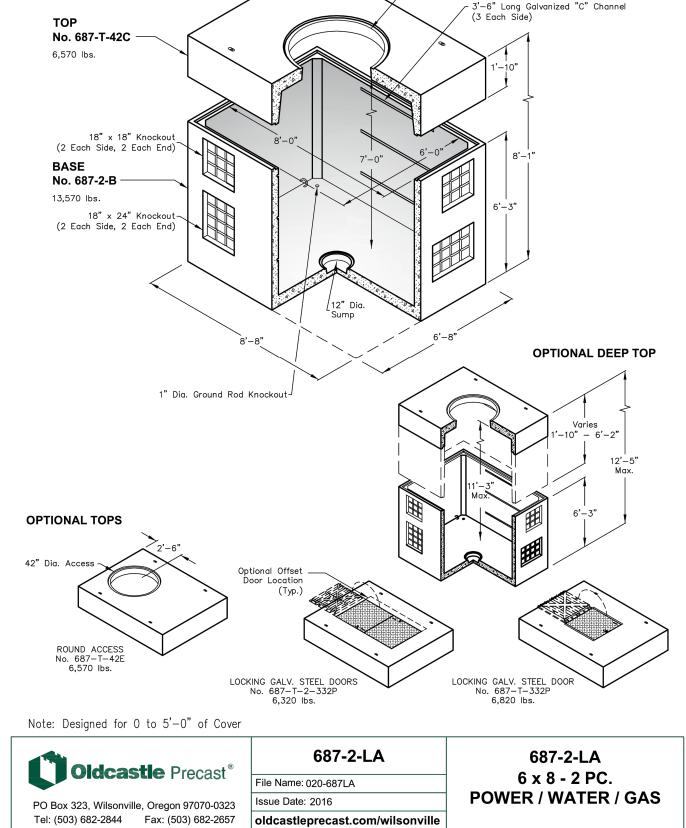
When installing a drain line on Series 4000SS backflow preventer, use

See Literature ES-A-AG/EL/TC for additional information.

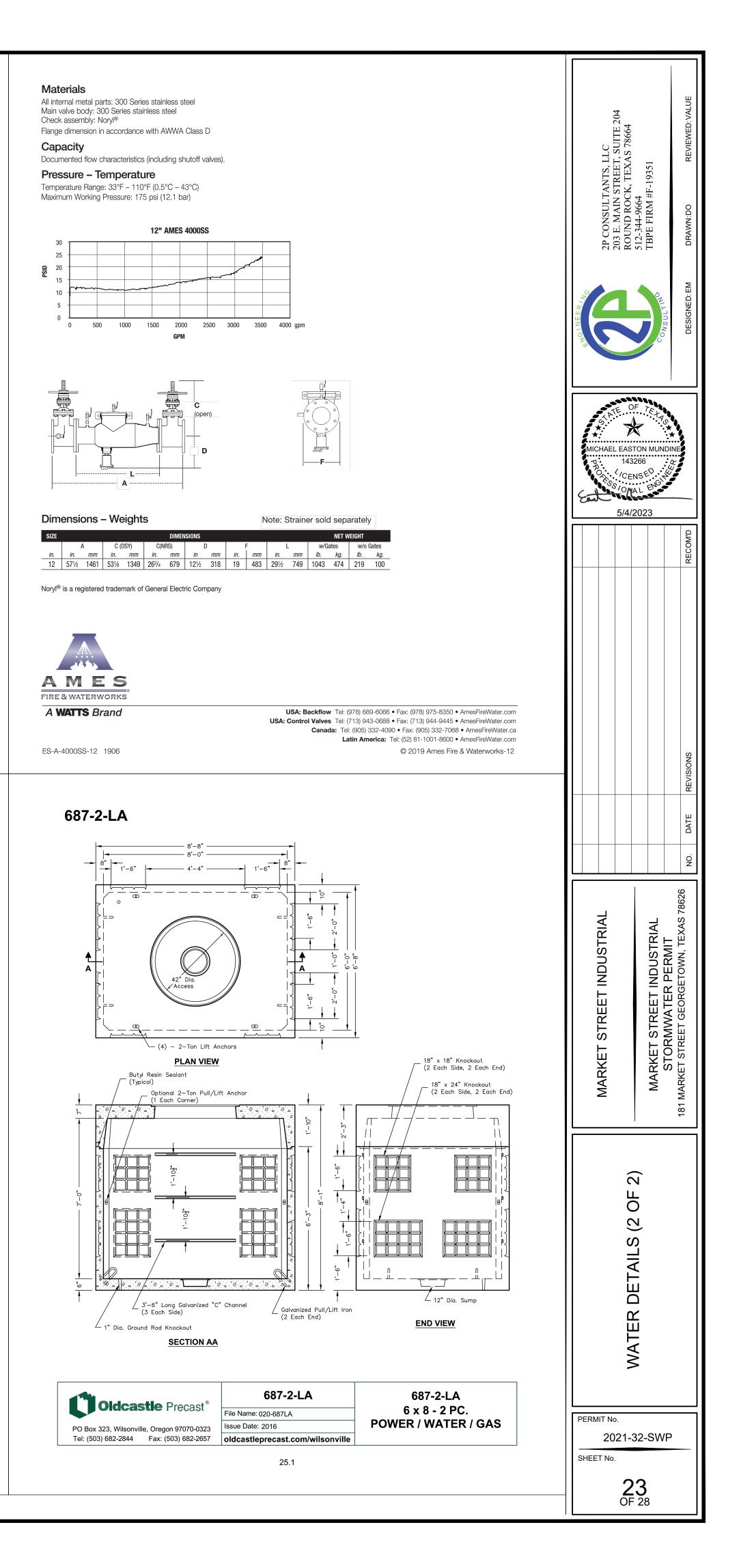
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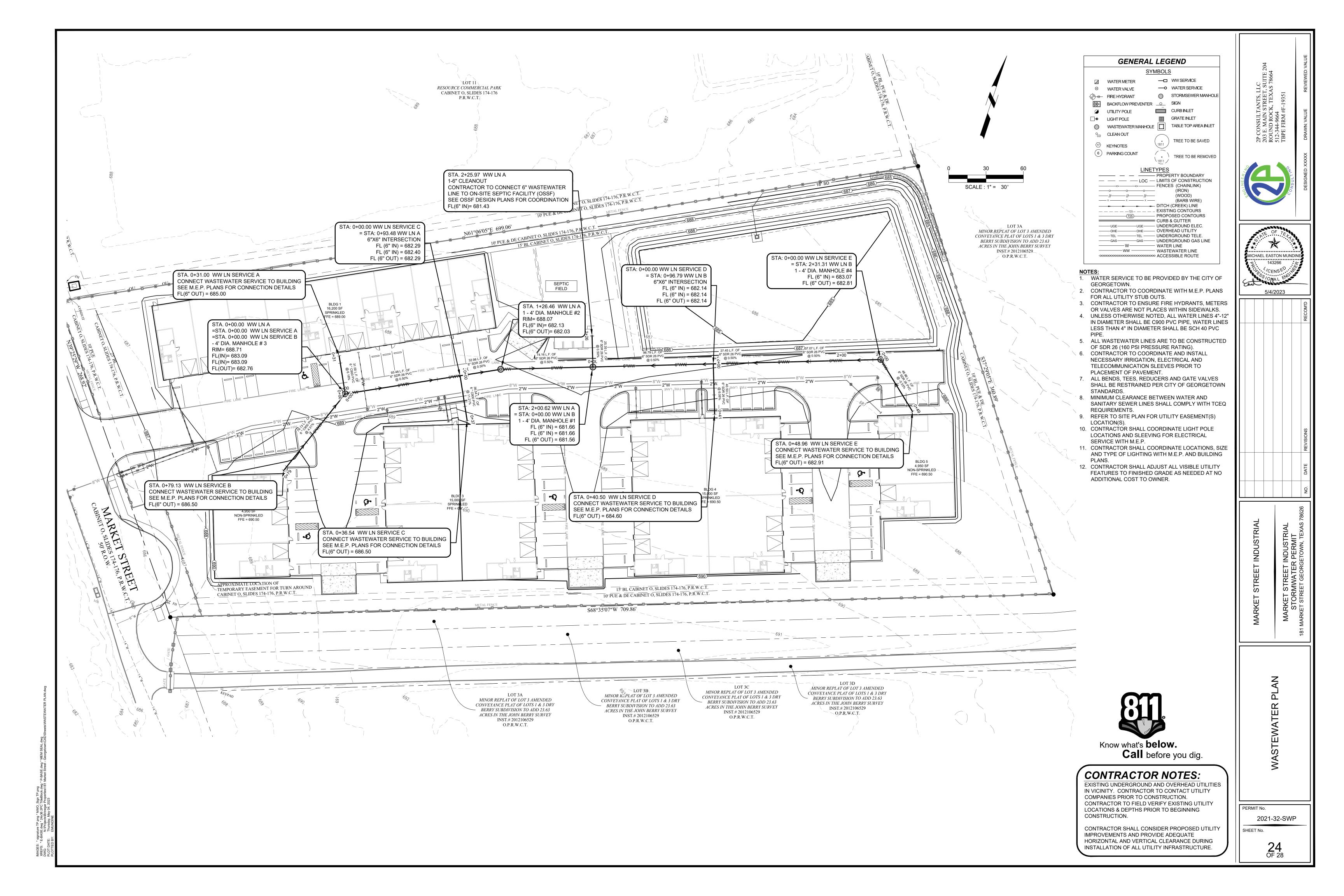
Representative ____

Contractor's P.O. No.

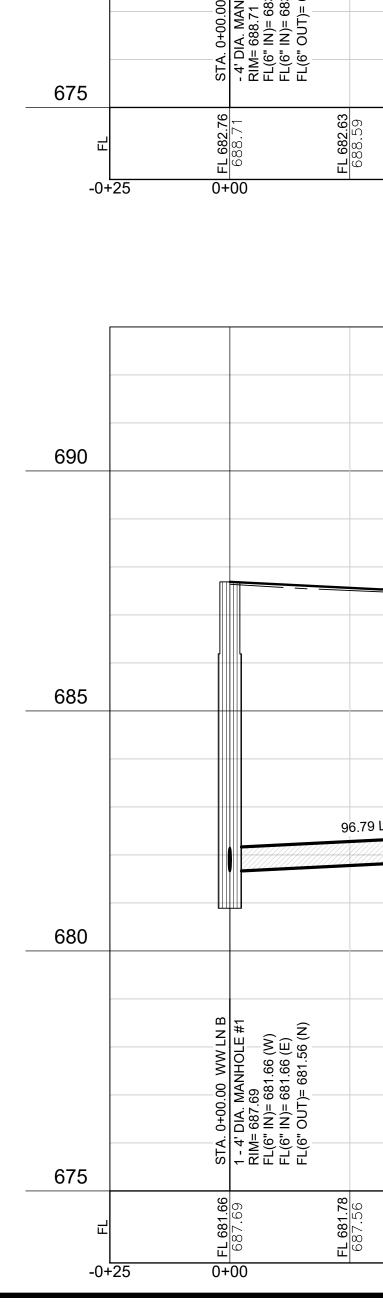


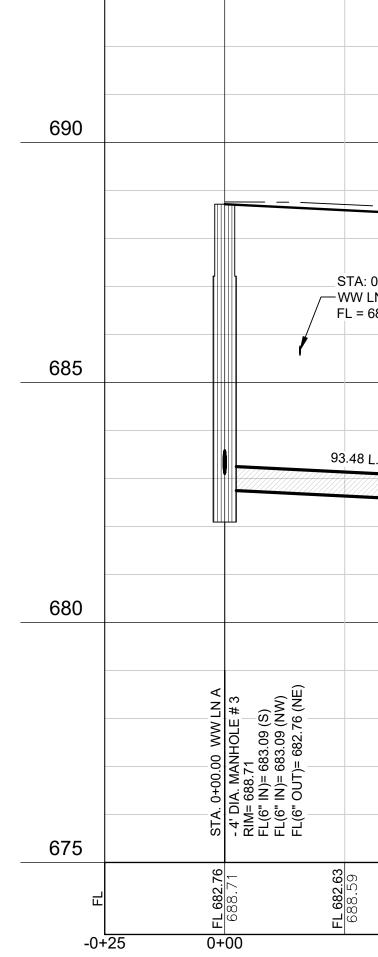
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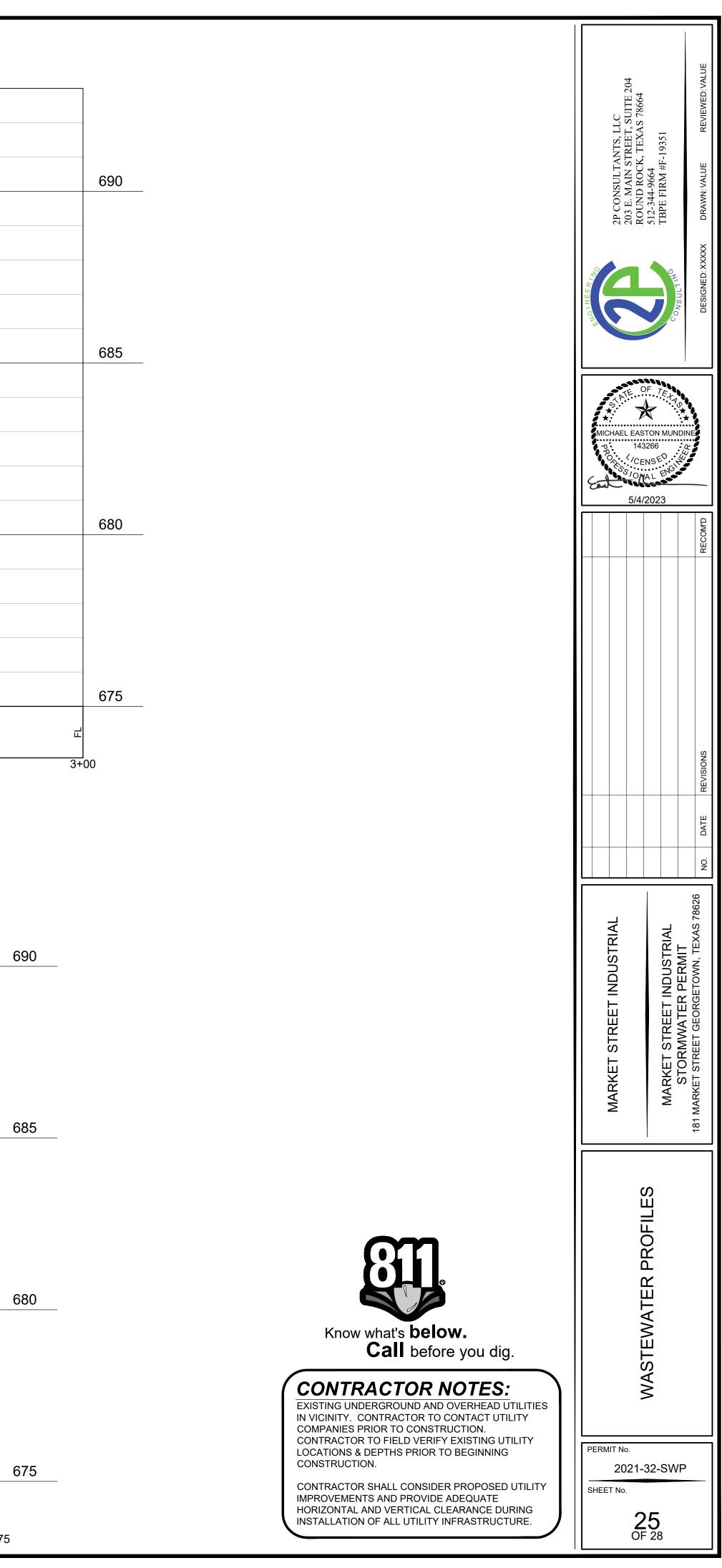
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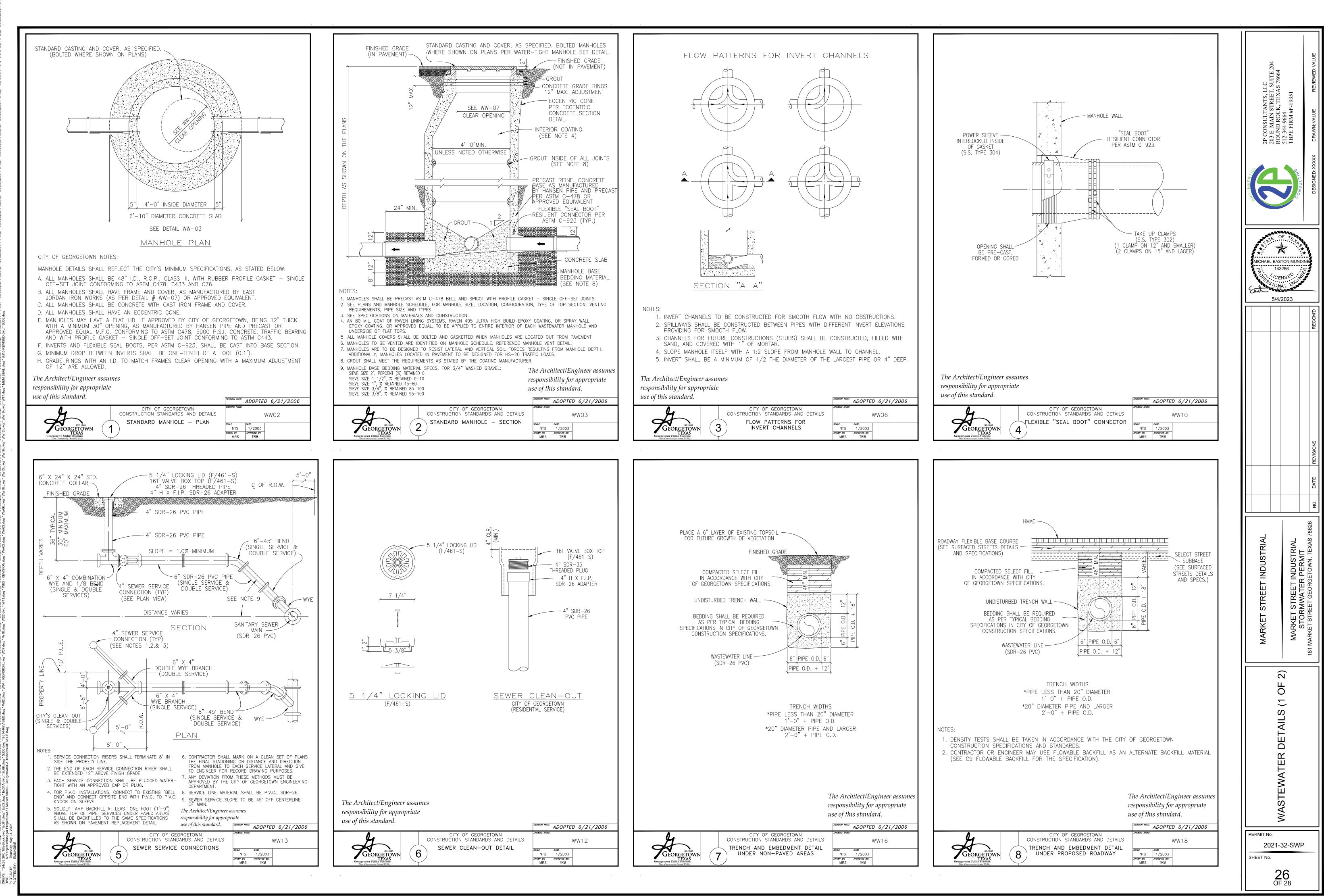


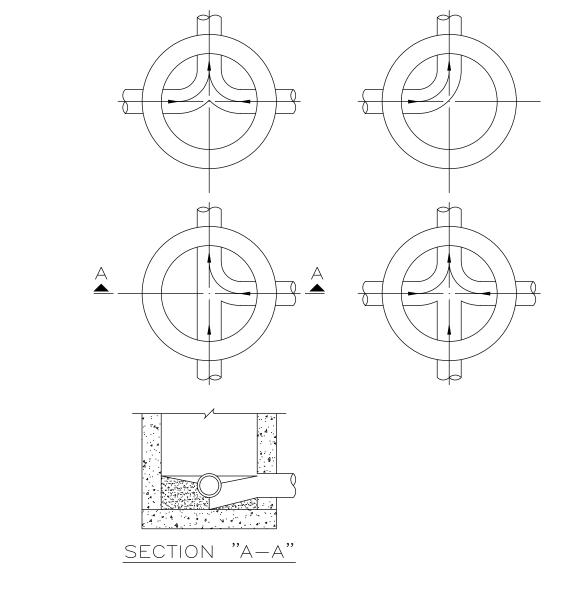


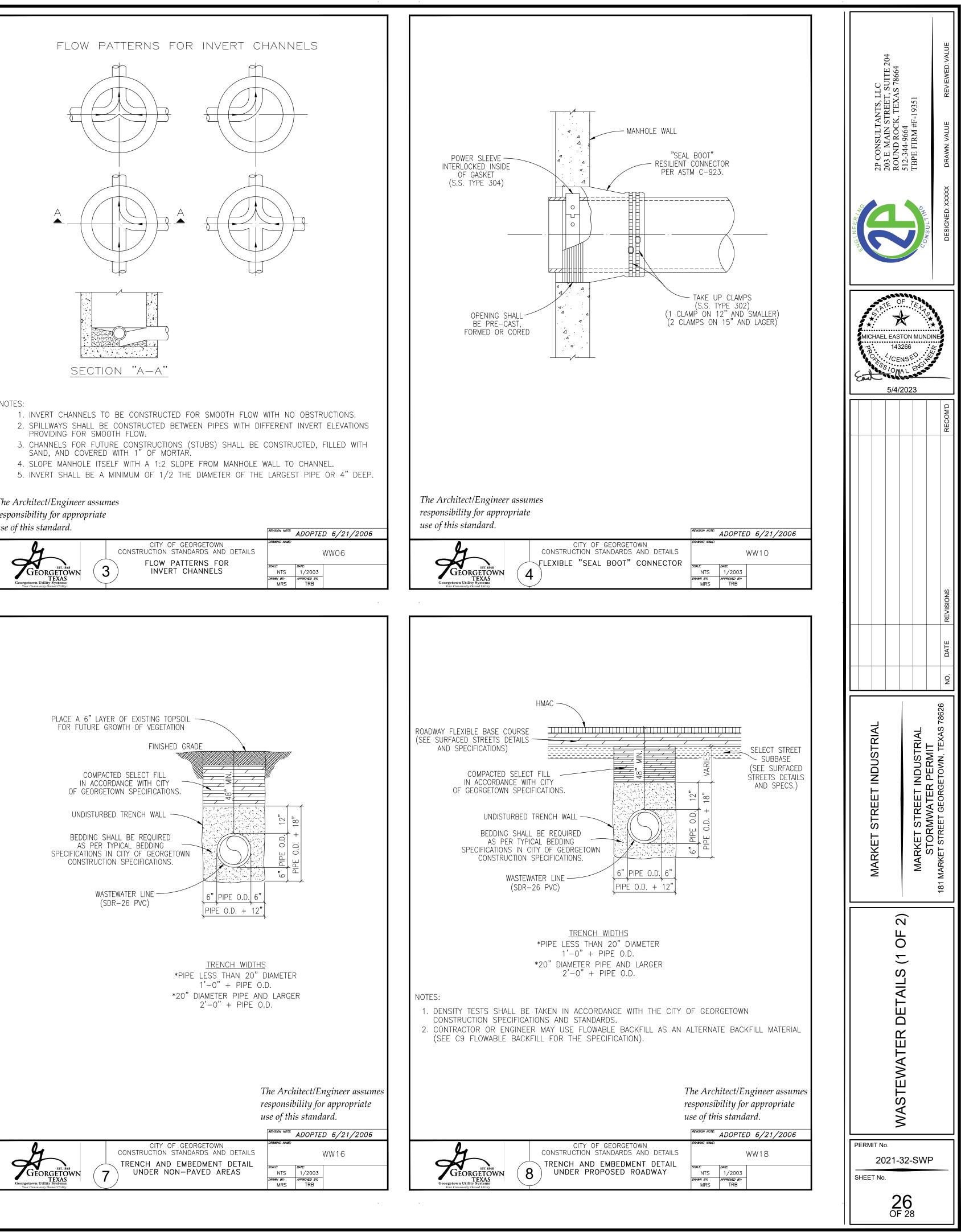
	WW LN A PROFILE Horizontal Scale: 1" = 20' Vertical Scale: 1" = 2'	
	PROPOSED GRADE	
0+15.67 PR 2" SCH 40 PVC N A :85.58 F. OF 6" SDR 26 PVC @ 0.50%	2.98 LF OF DR 26 PVC 20 0.50% 74.16 L.F. OF 6" SDR 26 PVC	25.35 L.F. OF -6" SDR 26 PVC @ 0.50%
	STA. 1+26.46 WW LN A 1 - 4' DIA. MANHOLE # 2 RIM= 688.07 FL(6" IN)= 682.03 (E) FL(6" OUT)= 682.03 (E)	STA. 2+00.62 WW LN A 1 - 4' DIA. MANHOLE #1 1 1 - 4' DIA. MANHOLE #1 1 Ria 687.69 FL(6" IN)= 681.66 (W) FL(6" IN)= 681.66 (E) FL(6" IN)= 681.43 (S) FL(6" IN)= 681.43 (S)
FL 682.51 688.46 688.46 688.34 688.34 FL 682.38 688.34 682.26	FL 682.11 688.08 687.95 681.91 681.78 FL 681.91 681.78 FL 681.78	
	WW LN B PROFILE Horizontal Scale: 1" = 20' Vertical Scale: 1" = 2'	
	PROPOSED GRAD	
L.F. OF 6" SDR 26 PVC @ 0.50%	27.45 LF OF " SDR 26 PVC @ 0.50%	DR 26 PVC @ 0.50%

. OF 6" SDR 26 PVC @ 0.50%	27.45 LF OF 6" SDR 26 PVC @ 0.50%	107.07 L.F. OF 6" SDF	R 26 PVC @ 0.50%		
					6
	STA. 0+96.79 6"x6" INTERSECTION FL(6" IN)= 682.14 (E) FL(6" IN)= 682.14 (W) FL(6" OUT)= 682.14 (W)			STA. 2+31.31 WW LN B 1 - 4' DIA. MANHOLE #4 RIM= 688.33 FL(6" IN)= 682.81 (W) FL(6" OUT)= 682.81 (W)	6
FL 681.91 687.63 FL 682.03 687.75	FL 682.15 687.87 687.87 688.00 688.00	FL 682.40 688.11 688.15 688.15	EL 682.65 688.17 648.17 7+00	FL 682.78 688.30 FL	관 2+75









WG. N. Tropeda roperteen waret ore LOTDATE: Thursday, May 04, 2023 HOTTPD BY: FMIINDINE

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