Water Pollution Abatement Plan Modification

New Braunfels High School Phase 2

2551 TX-337 Loop, New Braunfels, Texas 78130



Prepared for: TCEQ

Applicant: Richard Underwood, P.E.



TBPE Firm No. 928 10101 Reunion Place, Suite 400 San Antonio, TX 78216 (210) 321-3415 KHA No. 066017050

Texas Commission on Environmental Quality Water Pollution Abatement Plan General Construction Notes

Edwards Aquifer Protection Program Construction Notes - Legal Disclaimer

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

- 1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any regulated activities. This notice must include:
 - the name of the approved project;
 - the activity start date; and
 - the contact information of the prime contractor.
- All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan (WPAP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.
- 3. If any sensitive feature(s) (caves, solution cavity, sink hole, etc.) is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. Construction activities may not be resumed until the TCEQ has reviewed and approved the appropriate protective measures in order to protect any sensitive feature and the Edwards Aquifer from potentially adverse impacts to water quality.
- 4. No temporary or permanent hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.
- 5. Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the approved plans and manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized.
- 6. Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.
- 7. Sediment must be removed from the sediment traps or sedimentation basins not later than

when it occupies 50% of the basin's design capacity.

- 8. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
- 9. All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.
- 10. If portions of the site will have a temporary or permanent cease in construction activity lasting longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.
- 11. The following records shall be maintained and made available to the TCEQ upon request:
 - the dates when major grading activities occur;
 - the dates when construction activities temporarily or permanently cease on a portion of the site; and
 - the dates when stabilization measures are initiated.
- 12. The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:
 - A. any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
 - B. any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
 - C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin, Texas 78753-1808 Phone (512) 339-2929	San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490-3096 Fax (210) 545-4329
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THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

Modification of a Previously Approved Plan Checklist

X Edwards Aquifer Application Cover Page (TCEQ-20705)

X General Information Form (TCEQ-0587)

Attachment A - Road Map Attachment B - USGS / Edwards Recharge Zone Map Attachment C - Project Description

X Geologic Assessment Form (TCEQ-0585)

Attachment A - Geologic Assessment Table (TCEQ-0585-Table) Attachment B - Stratigraphic Column Attachment C - Site Geology Attachment D - Site Geologic Map(s)

X Modification of a Previously Approved Plan (TCEQ-0590)

Attachment A - Original Approval Letter and Approved Modification Letters Attachment B - Narrative of Proposed Modification Attachment C - Current Site Plan of the Approved Project

X Application Form (include any applicable to the proposed modification):

Aboveground Storage Tank Facility Plan (TCEQ-0575) Organized Sewage Collection System Application (TCEQ-0582) Underground Storage Tank Facility Plan (TCEQ-0583) Water Pollution Abatement Plan Application (TCEQ-0584) Lift Station / Force Main System Application (TCEQ-0624)

X Temporary Stormwater Section (TCEQ-0602)

Attachment A - Spill Response Actions Attachment B - Potential Sources of Contamination Attachment C - Sequence of Major Activities Attachment D - Temporary Best Management Practices and Measures Attachment E - Request to Temporarily Seal a Feature (if requested) Attachment F - Structural Practices Attachment G - Drainage Area Map Attachment H - Temporary Sediment Pond(s) Plans and Calculations Attachment I - Inspection and Maintenance for BMPs Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

X Permanent Stormwater Section (TCEQ-0600), if necessary

Attachment A - 20% or Less Impervious Cover Declaration (if requested for multi-family, school, or small business site) Attachment B - BMPs for Upgradient Stormwater Attachment C - BMPs for On-site Stormwater Attachment D - BMPs for Surface Streams Attachment E - Request to Seal Features, if sealing a feature Attachment F - Construction Plans Attachment G - Inspection, Maintenance, Repair and Retrofit Plan Attachment H - Pilot-Scale Field Testing Plan (if requested) Attachment I - Measures for Minimizing Surface Stream Contamination

- X Agent Authorization Form (TCEQ-0599), if application submitted by agent
- X Application Fee Form (TCEQ-0574)
- X Check Payable to the "Texas Commission on Environmental Quality"
- **X** Core Data Form (TCEQ-10400)

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: New Braunfels High School Phase 2					2. Regulated Entity No.: RN102402526				
3. Customer Name: New Braunfels ISD				4. Customer No.: CN600397814					
5. Project Type: (Please circle/check one)	New	Modification			Extension		Exception		
6. Plan Type: (Please circle/check one)	WPAP CZP	SCS UST AST EXP E		EXT	Technical Clarification	Optional Enhanced Measures			
7. Land Use: (Please circle/check one)	Residential	Non-residential				8. Sit	e (acres):	53.05	
9. Application Fee:	\$8,000	10. Permanent BMP(s				s):	2		
11. SCS (Linear Ft.):	N/A	12. AST/UST (No. Tank					ks): N/A		
13. County:	Comal	14. W	aters	hed:			Guadalupe River		

Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the "Texas Groundwater Conservation Districts within the EAPP Boundaries" map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region									
County:	Hays	Travis	Williamson						
Original (1 req.)		_	_						
Region (1 req.)		_	_						
County(ies)			_						
Groundwater Conservation District(s)	Edwards Aquifer Authority Barton Springs/ Edwards Aquifer Hays Trinity Plum Creek	Barton Springs/ Edwards Aquifer	NA						
City(ies) Jurisdiction	Austin Buda Dripping Springs Kyle Mountain City San Marcos Wimberley Woodcreek	Austin Bee Cave Pflugerville Rollingwood Round Rock Sunset Valley West Lake Hills	Austin Cedar Park Florence Georgetown Jerrell Leander Liberty Hill Pflugerville Round Rock						

	San Antonio Region									
County:	County: Bexar Comal		Kinney	Medina	Uvalde					
Original (1 req.)		_X_								
Region (1 req.)		<u>_X</u>								
County(ies)		_X_								
Groundwater Conservation District(s)	Edwards Aquifer Authority Trinity-Glen Rose	X 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 XNew 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.

Richard Underwood, P.E. (Authorized Agent)

Print Name of Customer/Authorized Agent C Signature of Customer/Authorized Agent

01/14/2025

Date

FOR TCEQ INTERNAL USE ONLY						
Date(s)Reviewed:	Date Administratively Complete:					
Received From:	Correct Number of Copies:					
Received By:	Distribution Date:					
EAPP File Number:	Complex:					
Admin. Review(s) (No.):	No. AR Rounds:					
Delinquent Fees (Y/N):	Review Time Spent:					
Lat./Long. Verified:	SOS Customer Verification:					
Agent Authorization Complete/Notarized (Y/N):	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):					

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:

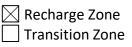
Print Name of Customer/Agent: Richard Underwood, P.E.

Date: 01/13/2025

Signature of Customer/Agent:

Project Information

- 1. Regulated Entity Name: New Braunfels High School Phase 2
- 2. County: Comal
- 3. Stream Basin: Guadalupe River Basin
- 4. Groundwater Conservation District (If applicable): N/A
- 5. Edwards Aquifer Zone:



6. Plan Type:

WPAP	AST
scs	🗌 UST
Modification	Exception Request

7. Customer (Applicant):

Contact Person: Joe Mansfield Entity: <u>New Braunfels ISD</u> Mailing Address: <u>1000 N Walnut</u> City, State: <u>New Braunfels, TX</u> Telephone: <u>8406435700</u> Email Address: josephmansfield@nbisd.org

Zip: <u>78130</u> FAX:

8. Agent/Representative (If any):

Contact Person: Richard Underwood, P.E.Entity: Kimley-Horn & Associates Inc.Mailing Address: 10101 Reunion Place, Suite 400City, State: San Antonio, TXZip: 78216Telephone: 2103213415FAX: _____Email Address: richard.underwood@kimley-horn.com

9. Project Location:

The project site is located inside the city limits of <u>New Braunfels</u>.

The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.

The project site is not located within any city's limits or ETJ.

10. The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

2551 Loop 337, New Braunfels, TX 78130

- 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: _____

- 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 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:
 - 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

TCEQ-0587 (Rev. 02-11-15)

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

Administrative Information

- 18. The fee for the plan(s) is based on:
 - For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.

For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.

For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.

A request for an exception to any substantive portion of the regulations related to the protection of water quality.

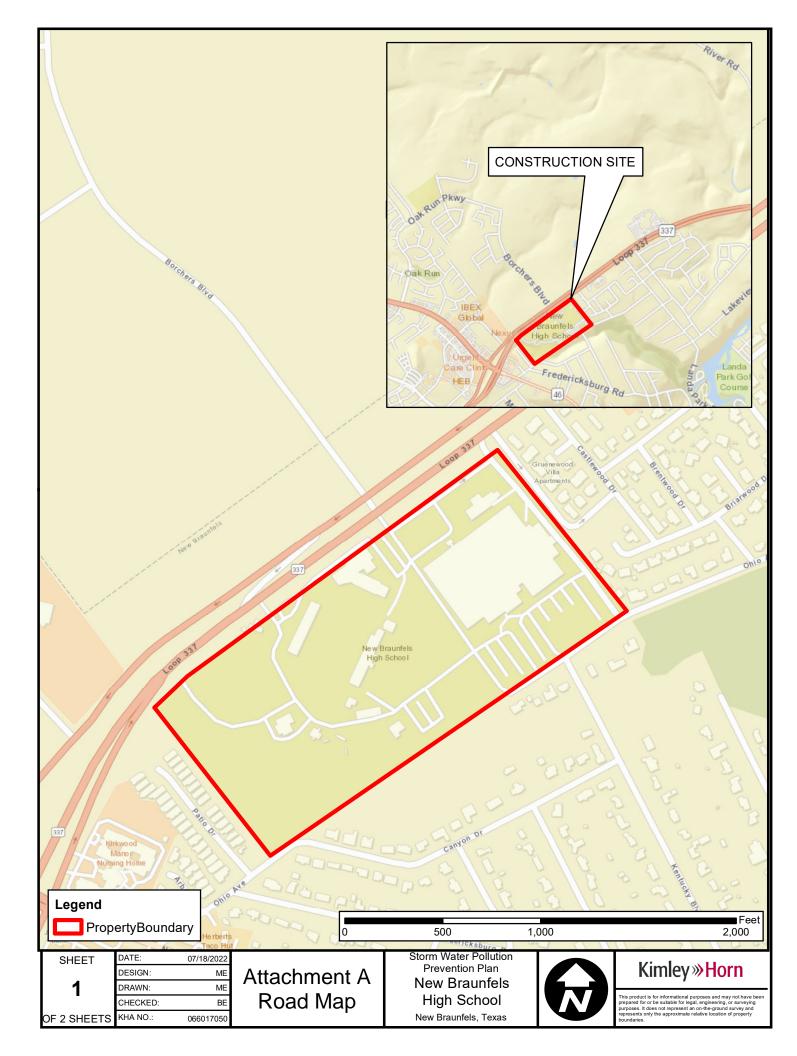
- A request for an extension to a previously approved plan.
- 19. Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

TCEQ cashier

Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)

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

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



Attachment B - USGS/Edwards Recharge Zone Map





TCEQ | Maxar | Esri Community Maps Contributors, City of New Braunfels, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau,

APPENDIX

PROJECT DESCRIPTION

This modification is being submitted for the proposed additions to New Braunfels High School for New Braunfels I.S.D. Phase 2 in New Braunfels, Comal County, Texas. The site is located at 2551 TX-337 Loop, as shown in the Road Map (Attachment A).

A previous Water Pollution Abatement Plan (WPAP) was modified and approved on March 17, 2011 and included 29.96 acres of impervious cover, including the proposed Greenhouse addition (records not available upon request per TCEQ).

Another WPAP modification was approved in 2016 and decreased the overall impervious cover from 29.96 acres to 29.92 acres. The existing percentage of impervious cover is 53.42% of the site. All work for the 2016 modification has been completed. The water quality pond has been inspected, and a letter of substantial completion was submitted to the TCEQ. (Records not available upon request per TCEQ).

Then a WPAP Exception (#13001148) was approved in 2020 for the renovation and construction of facilities around the high school's baseball fields. The site's impervious cover increased to 58.16% of the entire 56-acre site (net increase of 2.59 ac). The total previous cover is 29.98 acres. (See Appendix A).

Another WPAP modification (#13001727) was approved June 16, 2023, for the additional improvements to school buildings, athletic courts, athletic fields, locker room, associated parking, and drive aisles. The site's impervious cover was approved at 58.16% (32.57 ac).

Kimley-Horn has been made aware of New Braunfels ISD conversions of the existing football (± 2 acres), baseball (± 3 acres), and softball (± 1 acre) fields to artificial turf. Kimley-Horn has confirmed with the designer of these field conversions that the fields were designed to be self-cleaning synthetic turf with liner to meet the requirements of TCEQ to not require additional BMP measures. Please see the design plans for the baseball and softball fields submitted as a supplemental document to this application. Kimley-Horn has no access to any records related to the football field conversion. Utilizing TCEQ guidance for self-treating artificial turf fields, the following is understood. The baseball field is estimated to treat 2.72 acres of artificial turf, resulting in a removal of 2640 lbs of TSS. The Softball field is estimated to treat 0.95 acres of artificial turf, resulting in a removal of 922 lbs of TSS. The football field is estimated to treat 3.44 acres of artificial turf, resulting in a removal of 3339 lbs of TSS. Please see the added TSS removal calculation sheets that document this estimation added to the permanent stormwater section of this application. Kimley-Horn has not been able to identify documentation of any TCEQ records associated with these conversions.

Between the field conversions, there was a gap of 4.43 acres of additional impervious cover between the last approved WPAP and the existing impervious cover of this WPAP modification. This 4.43 acres is associated with a required Lm of 3,976 lbs of TSS. The artificial turf BMPS above total 6,901 lbs of TSS removal.

With the above established, this WPAP modification uses 37.00 acres as the existing impervious cover number considering the prior WPAP and the field conversions and impervious cover update above. This WPAP modification application covers the removal of 10.95 acres of existing impervious cover, and the placement of 14.71 acres of new impervious cover, netting an increase of 3.76 acres of additional impervious cover within the project area. This proposed modification is intended to document how the proposed water quality bmp's associated with only the new 3.76 acres of additional impervious construction identified in this project comply with TCEQ's requirements.

The existing high school consists of school buildings, athletic facilities, associated parking, and drive aisles. Generally, the site sheet flows from the north to the southeast property line. The overall site drains into an existing private storm system and then discharges into a filtration / sedimentation and detention pond, currently being rebuilt per the modification approved in 2023. Runoff from north and west will continue to overland flow off site

and exits the property without detention or treatment.

The surrounding area has been fully developed, and the property is zoned as R-2 for Single Family and Two Family Residential. The site is not within the limits of any 100-yr flood plain and does not have a Critical Water Quality Zone. The site is however, located within the Edward's Aquifer Recharge Zone.

The proposed high school Phase 2 improvements include additional school buildings, athletic courts, athletic fields, locker rooms, associated parking, and drive aisles. The site's impervious cover will increase to 76.83% of the entire 53.05-acre site (40.76 ac). The existing sand filter pond will remain to continue to treat the Phase 1 storm improvements, as well as 16.60 acres shown in PR-A1 shown on sheet C8.12 of Phase 2. A new, private storm system will convey runoff from the redeveloped Phase 2 portions of the site to a proposed underground detention system, with a proprietary media cartridge filter (Jellyfish) water quality structure just before entry, in the southernmost parking lot. The proposed system will outfall to the level spreader constructed with Phase 1 and will runoff to the drainage channel southeast of the site. The proposed improvements include a new artificial turf practice football field on the south-west side of the existing drainage channel. This field will be treated by a second proprietary media cartridge filter (Jellyfish) water quality structure. A portion of the site to the north and west will continue to overland flow off site to Loop 337 as before, in the existing condition. Please reference the Proposed Phase II Drainage Area Map to see the above description in detail.

ATTACHMENTC Project Description

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: Jonathan B. Selby

Telephone: <u>512-658-7178</u>

Fax: none

Date: 07/19/2016

Representing: Jonathan B. Selby; #2455

Signature of Geologist:

Regulated Entity Name: NBISD New Braunfels High School Improvements

Project Information

- 1. Date(s) Geologic Assessment was performed: 07/16/2016
- 2. Type of Project:

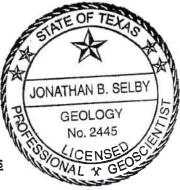


AST
UST

3. Location of Project:

Recharge Zone
Transition Zone
Contributing Zone within the Transition Zone

TCEQ-0585 (Rev.02-11-15)



- 4. 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.

Soil Name	Group*	Thickness(feet)
Comfort-Rock outcrop complex (CrD)	D	1.67
Eckrant-Rock outcrop complex (ErG)	D	1.67
Rumple-Comfort association (RUD)	С	3.0

Table 1 - Soil Units, InfiltrationCharacteristics and Thickness

- * 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. 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'' = 100'Site Geologic Map Scale: 1'' = 100'Site Soils Map Scale (if more than 1 soil type): 1'' = 500'

9. Method of collecting positional data:

Global Positioning System (GPS) technology.

TCEQ-0585 (Rev.02-11-15)

- 10. 🔀 The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
- 11. X 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 $\underline{4}$ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)

 \boxtimes 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.

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.

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z

Non-karst closed depression

Zone, clustered or aligned features

12 TOPOGRAPHY 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 cardifies that I an available as a geologist as defined by 30 TAC Chapter 213.

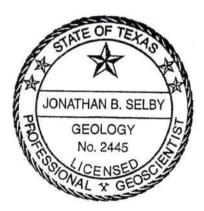
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Date: 07/19/2016

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



Sheet ____1___ of ___1____

STRATIGRAPHIC COLUMN

NBISD New Braunfels High School Improvements 2551 Loop 337 New Braunfels TX, 78130

FORMATION	THICKNESS	GENERAL DESCRIPTION
Pearson (Kep)	~50' – 75'	Cyclic and Marine Members, Undivided Limestone, dolomite and chert: limestone is fine-grained, massive to thin bedded; dolomite is fine-grained, grayish brown and porous; chert nodules common. Vuggy.
Kainer (Kek)	100'	Massively bedded cyclic subtidal to tidal flat mudstone to grainstone dolomitic limestone
	(Kep) Kainer	(Kep) Kainer 100'

SITE GEOLOGY

NBISD New Braunfels High School Improvements 2551 Loop 337 New Braunfels TX, 78130

Description:

The site is located at 2551 Loop 337, New Braunfels, Texas. The site, which slopes to the east and southeast, is located on the Cretaceous Pearson Formation (Kep) which dips gently to the southeast. Regional geologic maps do not indicate any faults transect the site.

Soils:

The soil types on-site are: The Comfort-Rock outcrop complex (CrD), with 1 to 8 percent slopes, averaging 20 inches in thickness and possesses moderately slow permeability (0.06 - 0.20 in/hr). The Eckrant-Rock outcrop complex (ErG), with 8 to 30 percent slopes, averaging 20 inches in thickness and possesses moderately slow permeability (0.20 - 0.60 in/hr). The Rumple-Comfort association (RUD), with 1 to 8 percent slopes, averaging 36 inches in thickness and possesses moderately slow permeability (0.20 - 0.60 in/hr).

Features:

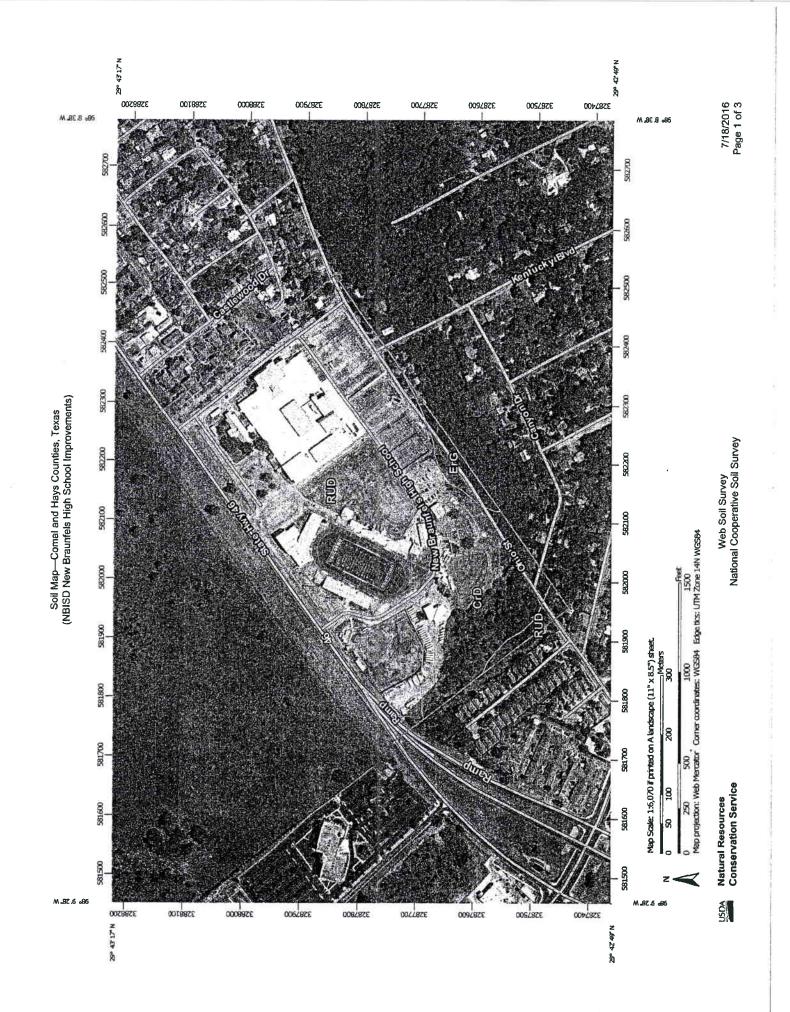
The site was investigated according to TCEQ guidelines.

There are four boreholes located on the site. All boreholes were plugged according to regulations.

S1- Borehole 1 was drilled to a depth of 25'. Voids were discovered between 9' $-14\frac{1}{2}$ ' and 19' -23'. These voids are not connected to any visible recharge feature at the surface.

\$2, \$3 & \$4- Boreholes 2-4 were drilled to a depth of 20'. No voids were penetrated during drilling.

No solution cavities, caves, sinkholes, faults, fractured outcrops, other karst-related features or water wells were discovered. No recharge features were discovered. Therefore, on a relative basis, recharge on-site is low.



Soil Map—Comal and Hays Countles, Texas (NBISD New Braunfels High School Improvements)

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7/18/2016 Page 2 of 3

USDA Natural Resources Conservation Service

Web Soil Survey National Cooperative Soil Survey

Map Unit Legend

Comal and Hays Countles, Texas (TX604)							
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI				
CrD	Comfort-Rock outcrop complex, 1 to 8 percent slopes	11.4	17.1%				
ErG	Eckrant-Rock outcrop complex, 8 to 30 percent slopes	1.7	2.5%				
RUD	Rumple-Comfort association, 1 to 8 percent slopes	53.8	80.4%				
Totals for Area of Interest		66.9	100.0%				

Modification of a Previously Approved Plan

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Transition Zone and Relating to 30 TAC 213.4(j), 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 request for a **Modification of a Previously Approved Plan** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Richard Underwood, P.E.

Date: 01/14/2025 Signature of Customer/Agent:

Project Information

 Current Regulated Entity Name: <u>New Braunfels High School Phase 2</u> Original Regulated Entity Name: <u>New Braunfels High School Phase 2</u> Regulated Entity Number(s) (RN): <u>RN102402526</u>

Edwards Aquifer Protection Program ID Number(s): _____

The applicant has not changed and the Customer Number (CN) is: <u>CN600397814</u>

The applicant or Regulated Entity has changed. A new Core Data Form has been provided.

2. Attachment A: Original Approval Letter and Approved Modification Letters. A copy of the original approval letter and copies of any modification approval letters are attached.

- 3. A modification of a previously approved plan is requested for (check all that apply):
 - Physical or operational modification of any water pollution abatement structure(s) including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
 - Change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
 - Development of land previously identified as undeveloped in the original water pollution abatement plan;

Physical modification of the approved organized sewage collection system;

] Physical modification of the approved underground storage tank system;

Physical modification of the approved aboveground storage tank system.

4. Summary of Proposed Modifications (select plan type being modified). If the approved plan has been modified more than once, copy the appropriate table below, as necessary, and complete the information for each additional modification.

WPAP Modification	Approved Project	Proposed Modification
Summary		
Acres	<u>56.57</u>	<u>53.05</u>
Type of Development	Commercial	<u>Commercial</u>
Number of Residential	<u>N/A</u>	<u>N/A</u>
Lots		
Impervious Cover (acres)	<u>32.57</u>	<u>40.76</u>
Impervious Cover (%	<u>58.16</u>	<u>76.83</u>
Permanent BMPs	Sand Filter	2 Jellyfish Filters
Other		
SCS Modification	Approved Project	Proposed Modification
Summary		
Linear Feet	<u>N/A</u>	<u>N/A</u>
Pipe Diameter	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>

AST Modification	Approved Project	Proposed Modification
Summary		
Number of ASTs	<u>N/A</u>	<u>N/A</u>
Volume of ASTs	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>
UST Modification	Approved Project	Proposed Modification
UST Modification Summary	Approved Project	Proposed Modification
-	Approved Project <u>N/A</u>	Proposed Modification
Summary		

- 5. Attachment B: Narrative of Proposed Modification. A detailed narrative description of the nature of the proposed modification is attached. It discusses what was approved, including any previous modifications, and how this proposed modification will change the approved plan.
- 6. Attachment C: Current Site Plan of the Approved Project. A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
 - The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
 - The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.

The approved construction has commenced and has been completed. Attachment C illustrates that the site was **not** constructed as approved.

The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was constructed as approved.

- The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was **not** constructed as approved.
- 7. The acreage of the approved plan has increased. A Geologic Assessment has been provided for the new acreage.
 - 🛛 Acreage has not been added to or removed from the approved plan.
- 8. 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

Original Approval Letter (Unavailable upon request per TCEQ staff) Jon Niermann, *Chairman* Emily Lindley, *Commissioner* Bobby Janecka, *Commissioner* Kelly Keel, *Interim Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 16, 2023

Clint McClain New Braunfels ISD 1000 N Walnut New Braunfels, Texas 78130

Re: Modification of an approved Water Pollution Abatement Plan (WPAP) Additions and Renovation to New Braunfels ISD High School; Located at 2551 Loop 377; New Braunfels, Comal County, Texas Edwards Aquifer Protection Program ID: 13001727, Regulated Entity No. RN102402526

Dear Mr. McClain:

The Texas Commission on Environmental Quality (TCEQ) has completed its review on the application for the above-referenced project submitted to the Edwards Aquifer Protection Program (EAPP) by Kimley-Horn & Associates Inc. on behalf of the applicant, New Braunfels ISD on March 30, 2023. Final review of the application was completed after additional material was received on June 2, 2023.

As presented to the TCEQ, the application was prepared in general compliance with the requirements of 30 Texas Administrative Codes (TAC) Chapter §213. The permanent best management practices (BMPs) and measures represented in the application were prepared by a Texas licensed professional engineer (PE). All construction plans and design information were sealed, signed, and dated by a Texas licensed PE. Therefore, the application for the construction of the proposed project and methods to protect the Edwards Aquifer are **approved**, subject to applicable state rules and the conditions in this letter.

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

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

BACKGROUND

The New Braunfels ISD High School WPAP (13-97121101A) was approved by letter dated February 16, 2001 and included one (1) sand filter basin and one (1) vegetated filter strip were approved as permanent BMPs.

Subsequent WPAPMODs (13-97121101D, 97121101E, 97121101F, 97121101G, 13000222 and 13001148) were approved between years 2002 and 2020. Total impervious cover was increased to 29.98-acres and three (3) vegetative filter strips and one (1) sand filter basin were designed and constructed to provide treatment.

TCEQ Region 11 · P.O. Box 13087 · Austin, Texas 78711-3087 · 512-339-2929 · Fax 512-339-3795

Clint McLain Page 2 June 16, 2023

PROJECT DESCRIPTION

The proposed school project will have an area of approximately 56-acres. The modification will include the construction of school buildings, athletic courts, athletic fields, parking and drives as well as renovations and improvements to existing buildings, the demolition of the existing sand filter basin and construction of a replacement sand filter basin. The impervious cover will be 32.57-acres (58.16 percent). Project wastewater will be disposed of by conveyance to the existing Kuehler Wastewater Treatment Plant

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, one (1) sand filter basin and three (3) previously approved vegetative filter strips (1397121101, 13-97121101D, 13001148), designed using the TCEQ technical guidance, *RG-348, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices,* will be constructed and implemented to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 2,325 pounds of TSS generated from the 32.57-acres of impervious cover. The approved permanent BMPs and measures meet the required 80 percent removal of the increased load in TSS caused by the project.

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

GEOLOGY

According to the Geologic Assessment (GA) included with the application, the surficial unit of the site is the cyclic and marine members of the Cretaceous Pearson Formation. No sensitive geologic features were identified in the GA. The site assessment conducted on May 19, 2023 by TCEQ staff determined the site to be generally as described by the GA.

SPECIAL CONDITIONS

I. This modification is subject to all the special and standard conditions listed in the approval letter(s) dated February 16, 2001, May 29, 2002, August 17, 2007, August 4, 2008, March 17, 2011, September 28, 2016, July 16, 2020, and June 16, 2020.

STANDARD CONDITIONS

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

Prior to Commencement of Construction:

3. Within 60 days of receiving written approval of an Edwards Aquifer protection plan, the plan holder must submit to the EAPP proof of recordation of notice in the county deed records, with the volume and page number(s) of the county record. A description of the property boundaries shall be included in the deed recordation in the county deed records. TCEQ form, Deed Recordation Affidavit (TCEQ-0625), may be used.

- 4. The plan holder of any approved Edwards Aquifer protection plan must notify the EAPP and obtain approval from the executive director prior to initiating any modification to the activities described in the referenced application following the date of the approval.
- 5. The plan holder must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the EAPP no later than 48 hours prior to commencement of the regulated activity. Notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person.
- 6. Temporary erosion and sedimentation (E&S) controls as described in the referenced application, must be installed prior to construction, and maintained during construction. Temporary E&S controls may be removed when vegetation is established, and the construction area is stabilized. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
- 7. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring or gravel. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation.

During Construction:

- 8. This approval does not authorize the installation of temporary or permanent aboveground storage tanks on this project that will have a total storage capacity of five hundred gallons or more of static hydrocarbons or hazardous substances without prior approval of an Aboveground Storage Tank facility application.
- 9. If any sensitive feature is encountered during construction, replacement, or rehabilitation on this project, all regulated activities must be **immediately** suspended near it and notification must be made to TCEQ EAPP staff. Temporary BMPs must be installed and maintained to protect the feature from pollution and contamination. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality.
- 10. All water wells, including injection, dewatering, and monitoring wells shall be identified in the geologic assessment and must be in compliance with the requirements of the Texas Department of Licensing and Regulation 16 TAC Chapter §76 and all other locally applicable rules, as appropriate.
- 11. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
- 12. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge must be filtered through appropriately selected BMPs.
- 13. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction

activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

14. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

- 15. Owners of permanent BMPs and temporary measures must ensure that the BMPs and measures are constructed and function as designed. A Texas licensed PE must certify in writing that the **permanent** BMPs or measures were constructed as designed. The certification letter must be submitted to the EAPP within 30 days of site completion.
- 16. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property or the ownership of the property is transferred to the entity. A copy of the transfer of responsibility must be filed with the executive director through the EAPP within 30 days of the transfer. TCEQ form, Change in Responsibility for Maintenance on Permanent BMPs and Measures (TCEQ-10263), may be used.

The holder of the approved Edwards Aquifer protection plan is responsible for compliance with Chapter §213 and any condition of the approved plan through all phases of plan implementation. Failure to comply with any condition within this approval letter is a violation of Chapter §213 and is subject to administrative rule or orders and penalties as provided under §213.10 of this title (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. Upon legal transfer of this property, the new owner is required to comply with all terms of the approved Edwards Aquifer protection plan.

This action is taken as delegated by the executive director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Drew Evans, P.G. of the Edwards Aquifer Protection Program at (210) 403-4053 or the regional office at 512-339-2929.

Sincerely, Xillian Buttur

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

LIB/de

cc: Richard Underwood, P.E., Kimley-Horn and Associates, Inc

Jon Niermann, *Chairman* Emily Lindley, *Commissioner* Bobby Janecka, *Commissioner* Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 16, 2020

Mr. Daryl Stoker New Braunfels Independent School District 430 W. Mill Street New Braunfels, Texas 78130

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: NBISD High School; Located at 2551 Loop 337 N; New Braunfels, Texas

TYPE OF PLAN: Request for an Exception to the Requirements of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Regulated Entity No. RN102402526; Additional ID No. 13001148

Dear Mr. Stoker:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the Exception Request application for the above-referenced project submitted to the San Antonio Regional Office by Gil Engineering Associates, Inc. on behalf of the New Braunfels Independent School District on May 22, 2020. Final review of the Exception Request was completed after additional material was received on June 16, 2020, June 26, 2020 and July 2, 2020. As presented to the TCEQ, the Exception Request proposed in the submittal is in general compliance with the requirements of 30 TAC Chapter 213. Therefore, the request for exception is hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The project site consists of the existing 56-acre New Braunfels Independent School District High School site. This project proposes the addition of 0.06 acres of impervious cover for concrete walkways, restroom, concession building, and parking associated with the existing baseball field. Total site impervious cover will increase to 29.98 acres (53.53 percent). Project wastewater will be disposed of by conveyance to the existing Kuehler Wastewater Treatment Plant owned and operated by New Braunfels Utilities.

PERMANENT POLLUTION ABATEMENT MEASURES

TCEQ Region 13 • 14250 Judson Rd. • San Antonio, Texas 78233-4480 • 210-490-3096 • Fax 210-545-4329

Mr. Daryl Stoker Page 2 July 16, 2020

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, a 15-foot engineered vegetative filter strip, designed using the TCEQ technical guidance document, <u>Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005)</u>, will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 54 pounds of TSS generated from the 0.06 acres of impervious cover. The approved measure meets the required 80 percent removal of the increased load in TSS caused by the project.

GEOLOGY

According to the geologic assessment included with the application, the site is located on the Person Formation. Four (4) non-sensitive manmade features in bedrock were noted by the project geologist. The TCEQ did not conduct a site assessment.

STANDARD CONDITIONS

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

Prior to Commencement of Construction:

- 4. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved Exception is enclosed.
- 5. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Exception and this notice of approval shall be maintained at the project location until all regulated activities are completed.
- 6. Modification to the activities described in the referenced Exception application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
- 7. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone

Mr. Daryl Stoker Page 3 July 16, 2020

number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.

- 8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Exception, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established, and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
- 9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

During Construction:

- 10. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
- 11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 6, above.
- 12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
- 13. No wells exist on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
- 14. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
- 15. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
- 16. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities

Mr. Daryl Stoker Page 4 July 16, 2020

will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

- 18. 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 San Antonio Regional Office within 30 days of site completion.
- 19. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
- 20. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
- 21. An Edwards Aquifer protection plan approval or extension will expire, and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
- 22. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Dianne Pavlicek-Mesa, P.G. of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210-403-4074.

Sincerely,

Robert Sadlier, Section Manager Edwards Aquifer Protection Program Texas Commission on Environmental Quality

RCS/dpm

Enclosures: Deed Recordation Affidavit, Form TCEQ-0625 Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263 Mr. Daryl Stoker Page 5 July 16, 2020

Mr. Victor Gil, P.E., Gil Engineering Associates
 Mr. Robert Camareno, City of New Braunfels
 Mr. Thomas H. Hornseth, P.E., Comal County Engineer
 Mr. H. L. Saur, Comal Trinity Groundwater Conservation District
 Mr. Roland Ruiz, Edwards Aquifer Authority

NARRATIVE OF PROPOSED MODIFICATION

The proposed modification will increase the amount of impervious cover from 37.00 acres to 40.76 acres. This changes the overall site's impervious cover of 69.75% to 76.83%. The WPAP permitted in 2023 included 32.57 acres. This proposed modification has used 37.00 acres of existing impervious cover for the start of the analysis as Kimley-Horn has been made aware of New Braunfels ISD conversions of the existing football (± 2 acres), baseball (± 3 acres), and softball (± 1 acre) fields to artificial turf. In addition, additional survey was obtained at the southwest corner of the site detailing an additional ± 1.30 of existing impervious cover associated with the existing Ohio Avenue ROW that was previously excluded from previous WPAP analysis. This proposed modification will facilitate a net increase of impervious cover to 8.19 acres from the previous TCEQ approval and 3.76 acres from existing conditions. Kimley-Horn has not been able to identify documentation of any TCEQ records associated with the field conversions. This proposed modification is intended to document how the proposed water quality bmp's associated with only the new 3.76 acres of additional impervious construction identified in this project comply with TCEQ's requirements.

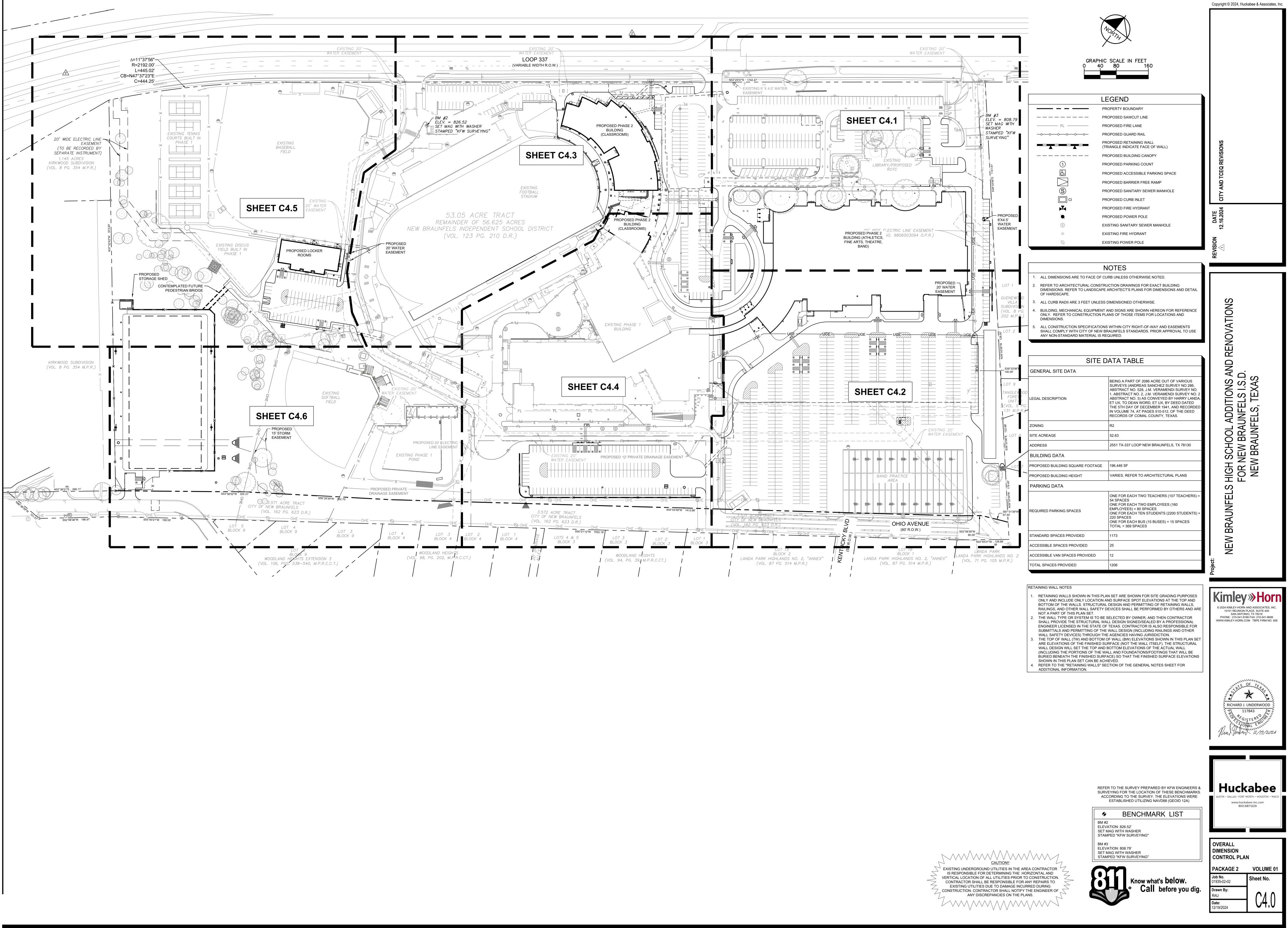
Generally, the site sheet flows from the north to the southeast property line. The overall developed portion of the site drains into an existing private storm system and then discharges into a filtration / sedimentation and detention pond. Runoff from the football field is currently routed to the southeast via overland flow and exits the property without detention or treatment. The site is not within the limits of any 100-yr flood plain and does not have a Critical Water Quality Zone. The site is however, located within the Edward's Aquifer Recharge Zone.

The proposed high school Phase 2 improvements include additional school buildings, athletic courts, athletic fields, locker rooms, associated parking, and drive aisles. The site's impervious cover will increase to 76.83% of the entire 53.05-acre site (40.76 ac). The existing sand filter pond will remain to continue to treat the Phase 1 storm improvements, as well as some of the west portion of phase 2. A new, private storm system will convey runoff from the redeveloped Phase 2 portions of the site to a proposed underground detention system, with a proprietary media cartridge filter (Jellyfish) water quality structure just before entry, in the southernmost parking lot. The proposed system will outfall to the level spreader constructed with phase 1 and will runoff to the drainage channel southeast of the site. The proposed improvements include a new artificial turf practice football field on the south-west side of the existing drainage channel. This field will be treated by another Jellyfish water quality structure. A portion of the site to the north and west will continue to overland flow off site to Loop 337 as before, in the existing condition. Please reference the Proposed Phase II Drainage Area Map to see the above description in detail.

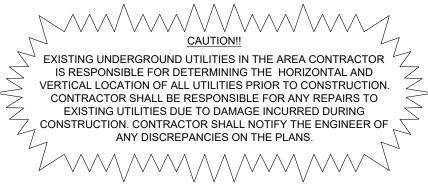
There are no factors affecting the surface water or ground water quality.

ATTACHMENT B Narrative of Proposed Modification

ATTACHMENT C Site Plan







Jon Niermann, *Chairman* Emily Lindley, *Commissioner* Bobby Janecka, *Commissioner* Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 16, 2020

Mr. Daryl Stoker New Braunfels Independent School District 430 W. Mill Street New Braunfels, Texas 78130

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: NBISD High School; Located at 2551 Loop 337 N; New Braunfels, Texas

TYPE OF PLAN: Request for an Exception to the Requirements of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Regulated Entity No. RN102402526; Additional ID No. 13001148

Dear Mr. Stoker:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the Exception Request application for the above-referenced project submitted to the San Antonio Regional Office by Gil Engineering Associates, Inc. on behalf of the New Braunfels Independent School District on May 22, 2020. Final review of the Exception Request was completed after additional material was received on June 16, 2020, June 26, 2020 and July 2, 2020. As presented to the TCEQ, the Exception Request proposed in the submittal is in general compliance with the requirements of 30 TAC Chapter 213. Therefore, the request for exception is hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The project site consists of the existing 56-acre New Braunfels Independent School District High School site. This project proposes the addition of 0.06 acres of impervious cover for concrete walkways, restroom, concession building, and parking associated with the existing baseball field. Total site impervious cover will increase to 29.98 acres (53.53 percent). Project wastewater will be disposed of by conveyance to the existing Kuehler Wastewater Treatment Plant owned and operated by New Braunfels Utilities.

PERMANENT POLLUTION ABATEMENT MEASURES

TCEQ Region 13 • 14250 Judson Rd. • San Antonio, Texas 78233-4480 • 210-490-3096 • Fax 210-545-4329

Mr. Daryl Stoker Page 2 July 16, 2020

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, a 15-foot engineered vegetative filter strip, designed using the TCEQ technical guidance document, <u>Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005)</u>, will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 54 pounds of TSS generated from the 0.06 acres of impervious cover. The approved measure meets the required 80 percent removal of the increased load in TSS caused by the project.

GEOLOGY

According to the geologic assessment included with the application, the site is located on the Person Formation. Four (4) non-sensitive manmade features in bedrock were noted by the project geologist. The TCEQ did not conduct a site assessment.

STANDARD CONDITIONS

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

Prior to Commencement of Construction:

- 4. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved Exception is enclosed.
- 5. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Exception and this notice of approval shall be maintained at the project location until all regulated activities are completed.
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Mr. Daryl Stoker Page 3 July 16, 2020

number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.

- 8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Exception, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established, and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
- 9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

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- 14. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
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- 16. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
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Mr. Daryl Stoker Page 4 July 16, 2020

will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

- 18. 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 San Antonio Regional Office within 30 days of site completion.
- 19. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
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- 22. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Dianne Pavlicek-Mesa, P.G. of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210-403-4074.

Sincerely,

Robert Sadlier, Section Manager Edwards Aquifer Protection Program Texas Commission on Environmental Quality

RCS/dpm

Enclosures: Deed Recordation Affidavit, Form TCEQ-0625 Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263 Mr. Daryl Stoker Page 5 July 16, 2020

Mr. Victor Gil, P.E., Gil Engineering Associates
 Mr. Robert Camareno, City of New Braunfels
 Mr. Thomas H. Hornseth, P.E., Comal County Engineer
 Mr. H. L. Saur, Comal Trinity Groundwater Conservation District
 Mr. Roland Ruiz, Edwards Aquifer Authority

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: Richard Underwood, P.E.

Date: 01/14/2025

Signature of Customer/Agent:

Regulated Entity Name: New Braunfels High School Phase 2

Regulated Entity Information

1. The type of project is:

	Residential: Number of Lots:
	Residential: Number of Living Unit Equivalents:
~	Commercial
	Industrial
	Other:

- 2. Total site acreage (size of property): <u>53.05</u>
- 3. Estimated projected population: NA
- 4. The amount and type of impervious cover expected after construction are shown below:

Table 1 - Impervious Cover Table

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	293,592	÷ 43,560 =	6.75
Parking	744,035	÷ 43,560 =	17.08
Other paved surfaces	868,155	÷ 43,560 =	16.93
Total Impervious Cover	1,905,782	÷ 43,560 =	40.76

Total Impervious Cover $40.76 \div$ Total Acreage $53.05 \times 100 = 76.83\%$ 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. **V** 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 ÷ 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:

<u>100</u> % Domestic	^{5,500} Gallons/day
% Industrial	Gallons/day
% Commingled	Gallons/day
TOTAL gallons/day <u>5,500 (</u> average)	

15. Wastewater will be disposed of by:

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

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 North Kuehler Treatment Plant. The treatment facility is:

~	Existing.
	Proposed

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

Site Plan Scale: 1" = <u>20</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.

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</u> 48091C0435F Dated 9-2-2009

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. 🗹 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.

Attachment A – Factors Affecting Surface Water Quality

Factors that could affect the quality of the water discharges for ultimate land use are:

- Oil, grease, and fuel from vehicle drippings;
- Dirt from vehicles;
- Trash and litter;
- Hydrocarbons from asphalt paving operations.

<u>Attachment B – Volume and Character of Stormwater</u>

While the impervious cover on the site increases, an underground detention system, with water quality controls, has been designed to reduce the peak flows from the site to below the existing conditions at the time of construction. The weighted curve number for the proposed improvements would be 96 after development. The curve number was obtained from the City of New Braunfels Drainage and Erosion Control Design manual.

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: Richard. Underwood P.E.

Date: 01/14/2025

Signature of Customer/Agent:

Regulated Entity Name: New Braunfels High School Phase 2

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>Guadalupe River</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.
8. 🖌	The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
	Attachment E - Request to Temporarily Seal a Feature. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
	There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. 🖌	Attachment F - Structural Practices. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. 🖌	Attachment G - Drainage Area Map. A drainage area map supporting the following requirements is attached:
	For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
	For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
	For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
	There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

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

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

Soil Stabilization Practices

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

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

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

Administrative Information

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

ATTACHMENT A – Spill Report Actions

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of the materials and substances described above to storm water runoff.

Education

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

General Measures

- (1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110, 117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- (2) Store hazardous materials and wastes in covered containers and protect from vandalism.
- (3) Place a stockpile of spill cleanup materials where it will be readily accessible.
- (4) Train employees in spill prevention and cleanup.
- (5) Designate responsible individuals to oversee and enforce control measures.
- (6) Spills should be covered and protected from stormwater run-on during rainfall to the extent that it doesn't compromise cleanup activities.
- (7) Do not bury or wash spills with water.
- (8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.

- (9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
- (10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- (11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- (12) Keep waste storage areas clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, cover, and liners should be repaired or replaced as needed to maintain proper function.

Cleanup

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

Minor Spills

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

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

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

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

- (1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
- (2) For spills of federal reportable quantities, in conformance with the requirements on 40 CFR parts 110, 119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- (3) Notification should first be made by telephone and followed up with a written report.
- (4) The services of a spills contractor or a 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.

ATTACHMENT B – Potential Sources of Contamination

Sources of contamination during construction that could potentially affect surface and groundwater quality are as follows:

Potential Source	Preventative Measure
Asphalt Products used on this project	After placement of Asphalt, emulsion or coatings, the contractor will be responsible for immediate cleanup should an unexpected rain occur. For the duration of the asphalt product curing time, the contractor will maintain standby personnel and equipment to contain any asphalt wash-off should an unexpected rain occur. The Contractor will be instructed not to place asphalt products on the ground within 48 hours of a forecasted rain event.
Oil, grease, fuel and Hydraulic fluid drippings	Vehicle maintenance when possible will be performed within the construction staging area.
Miscellaneous trash and litter	Trash containers will be placed throughout the site to encourage proper trash disposal.
Construction Debris	Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addresses on a case-by- case basis

ATTACHMENT C – Sequence of Major Events

The installation of erosion and sedimentation controls shall occur prior to any excavation of materials or major disturbances on the site.

The sequence of major construction activities will be as follows. Approximate acreage to be disturbed is listed in parentheses next to each activity.

- 1. Install all temporary erosion controls. (24.24 acres)
- 2. Clear and grub strip topsoil. (15.0 acres)
- 3. Grading (15.0 acres)
- 4. Rough Cut Drive Aisles and building pads (10.0 acres)
- 5. Install wet/dry utilities (4.0 acres)
- 6. Install paving improvements (8.0 acres)
- 7. Complete restoration of site vegetation. (3.0 acres)
- 8. Remove and dispose of temporary erosion controls when restoration has been accepted.

Maximum total construction time is not expected to exceed 12 months.

ATTACHMENT D – Temporary Best Management Practices and Measures

Also refer to the TCEQ Site Plan for details of TBMP's.

Silt fencing will be installed prior to the commencement of construction to prohibit runoff of sediment. The silt fence shall be placed perpendicular to direction of flow, where feasible, to maximize efficiency. If there are any, potentially sensitive features, a silt fence will surround the site as specified by TCEQ Guidance Manual Chapter 5.

Bagged gravel inlet filters will be used and maintained in a condition to prevent runoff of sediment from flowing into drains during construction.

Stabilized construction entrance will be installed prior to the commencement of construction and will be used and maintained in a condition that will prevent tracking or flowing of sediment onto public roadway.

a.) Silt fence will not be placed on the upstream side of the site because there will be no stormwater that originates upgradient of the site. All upgradient stormwater is captured in onsite storm water system that discharges to an existing 24" stub. All storm water is discharged to an existing 5'X3' SBC.

b.) Silt fencing and bagged gravel inlet filters will be used on-site to filter out pollutants and restrict sediment from leaving the site. Silt fencing will be placed in existing and proposed channels and downstream of flow on site. Bagged gravel inlet filters will be placed around proposed inlets to capture any suspended solids.

c.) Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. Silt Fencing, bagged gravel inlet filters and construction entrance measures prevent sediment and pollution by filtering and routing water. These filtered pollutants are then removed and prevented from entering surface streams, sensitive features, or the aquifer.

d.) BMP measures utilized in this plan are intended to allow stormwater to continue downstream after passing through the BMP's. Silt fencing and bagged gravel inlet filters will be placed to intercept and detain water with sediment or pollution from entering or leaving the site to any unprotected areas. The BMP's will filter out sediment and pollution while allowing filtered water to flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

e.) Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%. For perimeter controls such as silt fences, berms, etc., the trapped sediment must be removed before it reaches 50% of the above-ground height.

APPENDIX

Vehicle and Equipment Maintenance

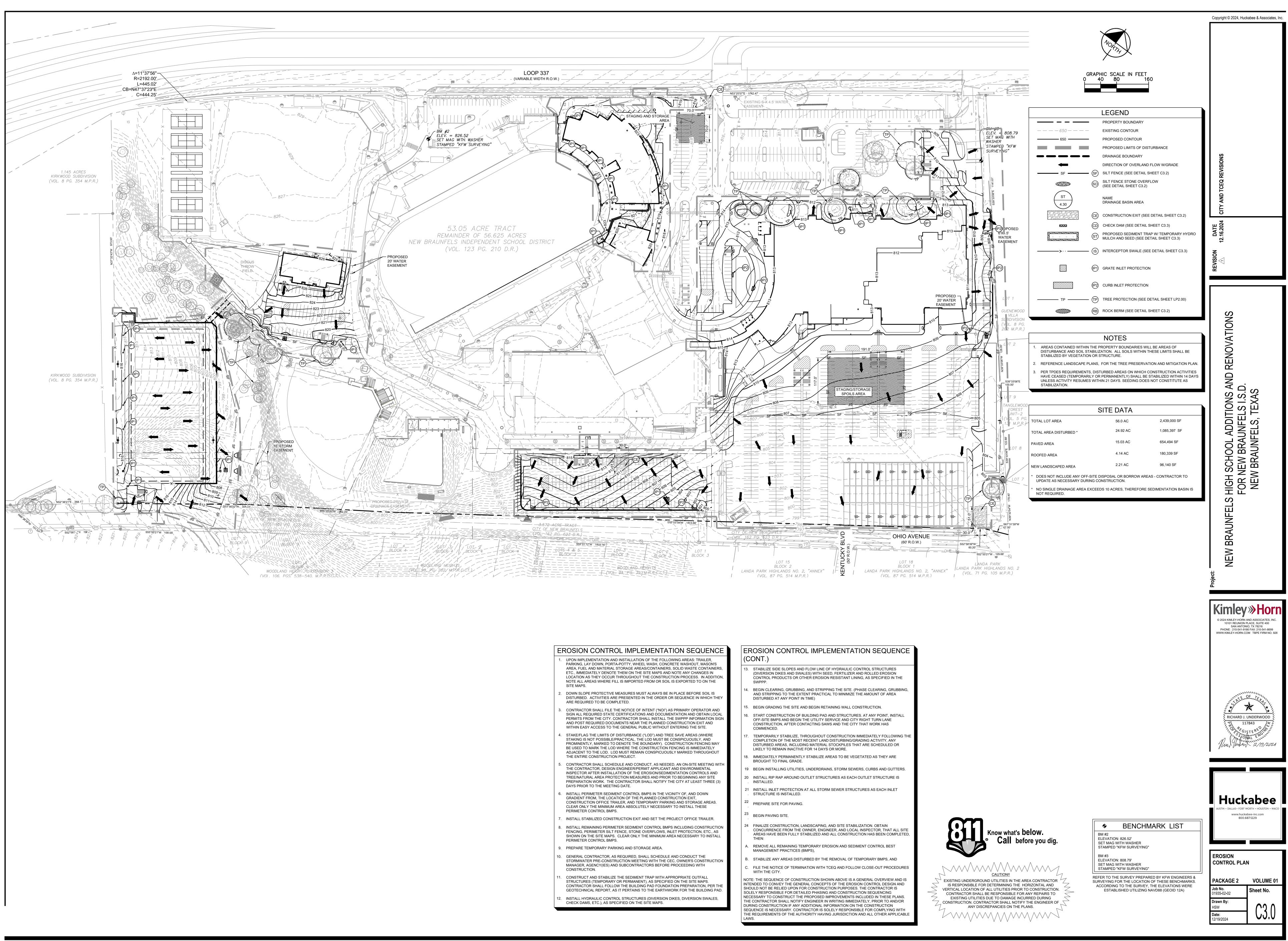
- (1) If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runon of stormwater and runoff of spills.
- (2) Regularly inspect onsite vehicles and equipment for leaks and repair immediately
- (3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite
- (4) Always use secondary containment, such as drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- (5) Place drip pans or absorbent materials under paving equipment when not in use.
- (6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- (7) Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- (8) Oil filters dispose of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about oil filters.
- (9) Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think the acid had drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

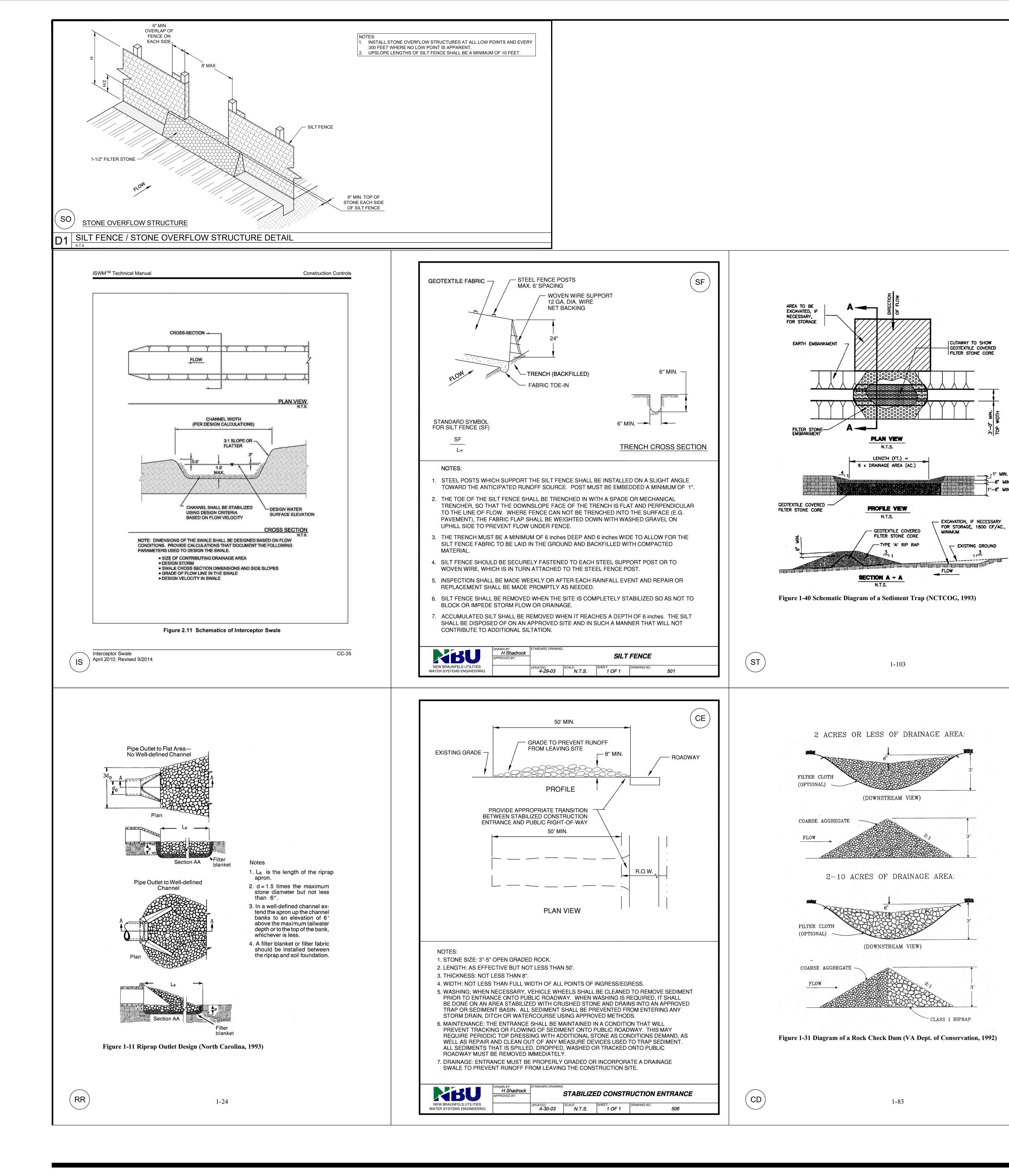
Vehicle and Equipment Fueling

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

ATTACHMENT F – Structural Practices

The structural practices that will be used to divert and store flows, and limit runoff discharge or pollutants will be the use of silt fences, inlet protection, and construction entrance stabilization.





SITE MAP - GENERAL NOTES

- CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
- . CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER
- CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND
- EXISTING CONTOURS, FLOW ARROWS, AND SLOPES. . TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL
- BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
- BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
- 6. SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.

TEMPORARY EROSION CONTROL NOTES THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND

- PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION). THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
- . THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
- . A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL
- . ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE OWNER
- . THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.

PERMANENT EROSION CONTROL NOTES

- ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW. A. A MINIMUM OF FOUR (4) INCHES OF TOPSOIL SHALL BE PLACED IN ALL
- THE RIGHT-OF-WAY LINE. B. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:

BROADCAST SEEDING:

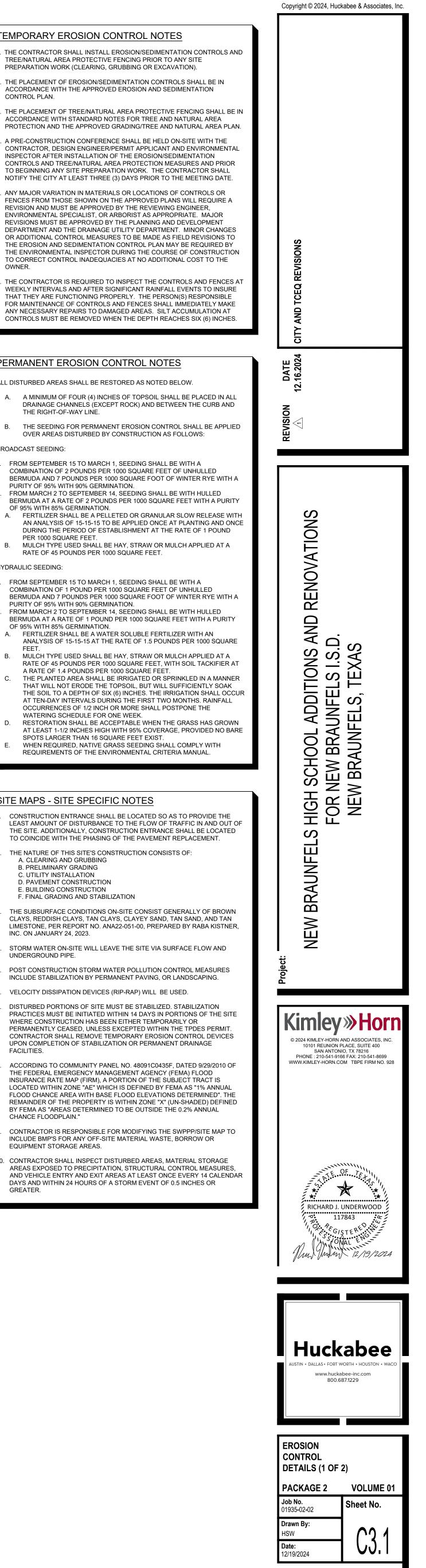
- FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 2 POUNDS PER 1000 SQUARE FEET OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINATION. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED
- BERMUDA AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET WITH A PURITY OF 95% WITH 85% GERMINATION. FERTILIZER SHALL BE A PELLETED OR GRANULAR SLOW RELEASE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE
- DURING THE PERIOD OF ESTABLISHMENT AT THE RATE OF 1 POUND PER 1000 SQUARE FEET. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SQUARE FEET.
- HYDRAULIC SEEDING: FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 1 POUND PER 1000 SQUARE FEET OF UNHULLED
- BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINATION. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 1 POUND PER 1000 SQUARE FEET WITH A PURITY
- OF 95% WITH 85% GERMINATION. FERTILIZER SHALL BE A WATER SOLUBLE FERTILIZER WITH AN ANALYSIS OF 15-15-15 AT THE RATE OF 1.5 POUNDS PER 1000 SQUARE
- MULCH TYPE USED SHALL BE HAY STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SQUARE FEET, WITH SOIL TACKIFIER AT A RATE OF 1.4 POUNDS PER 1000 SQUARE FEET. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL. BUT WILL SUFFICIENTLY SOAK
- THE SOIL TO A DEPTH OF SIX (6) INCHES. THE IRRIGATION SHALL OCCUF AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK.
- RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.
- WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE ENVIRONMENTAL CRITERIA MANUAL.

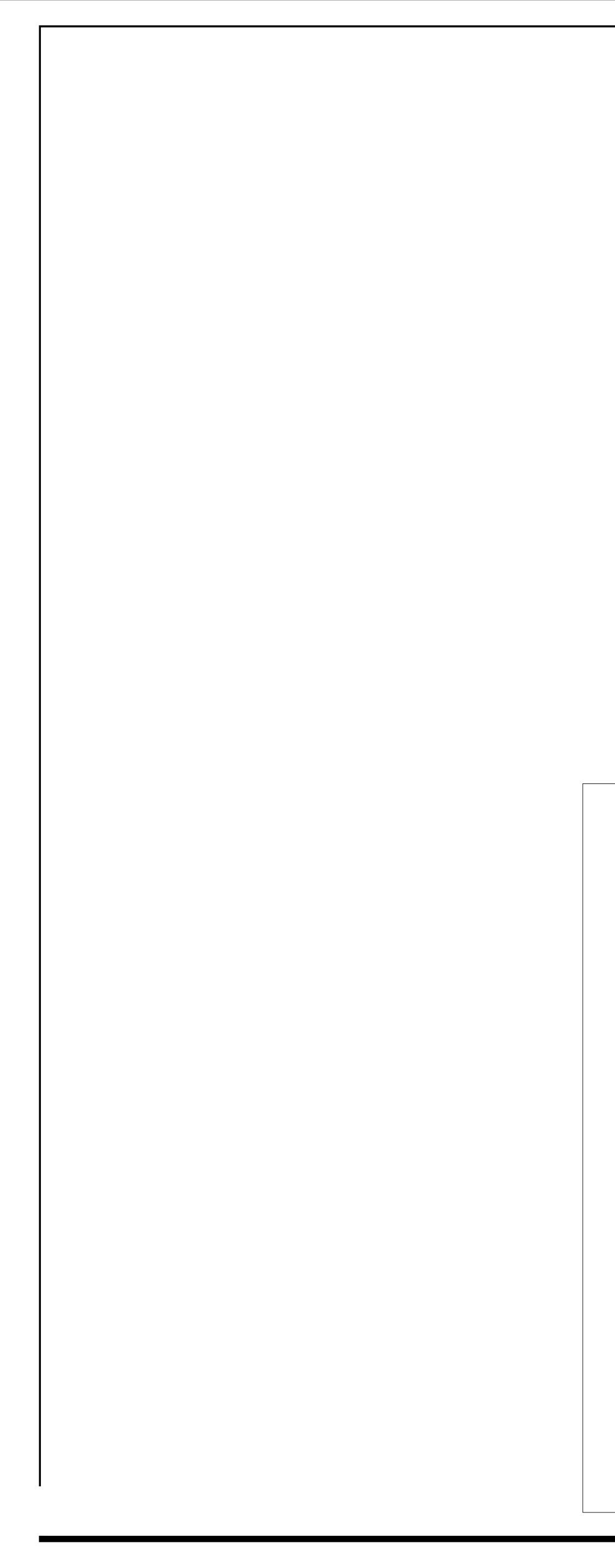
SITE MAPS - SITE SPECIFIC NOTES

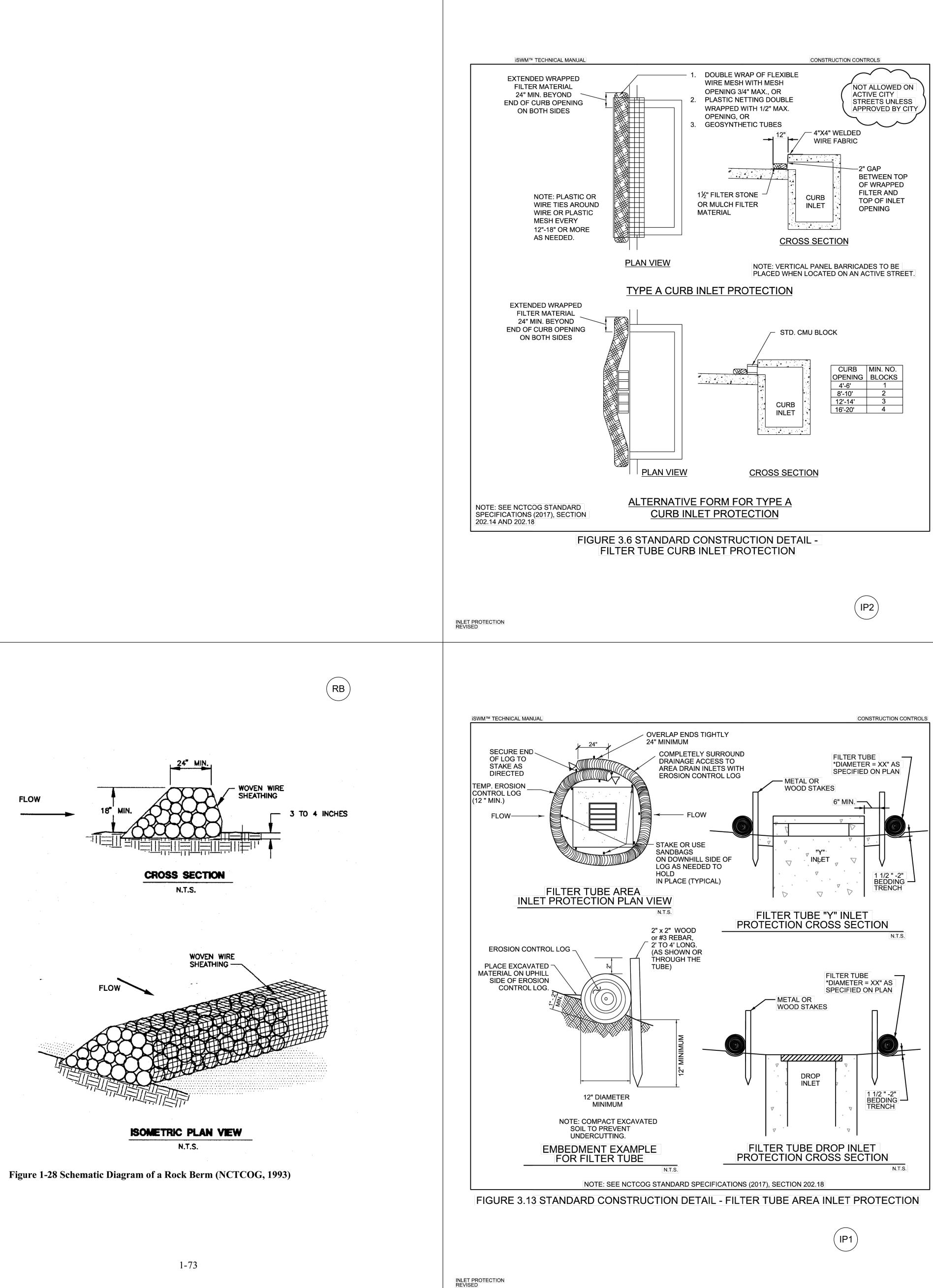
- CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.
- THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF: A. CLEARING AND GRUBBING
- B. PRELIMINARY GRADING C. UTILITY INSTALLATION
- D. PAVEMENT CONSTRUCTION E. BUILDING CONSTRUCTION F. FINAL GRADING AND STABILIZATION

FACILITIES.

- THE SUBSURFACE CONDITIONS ON-SITE CONSIST GENERALLY OF BROWN CLAYS, REDDISH CLAYS, TAN CLAYS, CLAYEY SAND, TAN SAND, AND TAN LIMESTONE, PER REPORT NO. ANA22-051-00, PREPARED BY RABA KISTNER, INC. ON JANUARY 24, 2023.
- STORM WATER ON-SITE WILL LEAVE THE SITE VIA SURFACE FLOW AND UNDERGROUND PIPE.
- POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, OR LANDSCAPING.
- VELOCITY DISSIPATION DEVICES (RIP-RAP) WILL BE USED. DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE TPDES PERMIT. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION OR PERMANENT DRAINAGE
- ACCORDING TO COMMUNITY PANEL NO. 48091C0435F, DATED 9/29/2010 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED". THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UN-SHADED) DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL
- CHANCE FLOODPLAIN." CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR EQUIPMENT STORAGE AREAS.
- CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER.









ATTACHMENT I – Inspection and Maintenance for BMP's

PROJECT NAME: ADDRESS: CITY, STATE:

New Braunfels High School Phase 2 2551 TX 337 Loop New Braunfels, TX

TEMPORARY BMP'S

SILT FENCE

- Inspections: Inspect all fencing weekly, and after any rainfall.
- Sediment Removal: Remove sediment when buildup reaches 6 inches.
- Replace any torn fabric or install a second line of fencing parallel to the torn section. .
- . Replace or repair any section 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.

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.

BAGGED GRAVEL INLET FILTER

- Inspections: Should be made weekly, and after each rainfall. Repair or replacement should be . made promptly as needed by the contractor.
- Sediment Removal: Remove sediment when buildup reaches 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
- Check placement of device to prevent gaps between device and curb.
- Inspect filter fabric and patch or replace if torn or missing.
- Structures should be removed and the area stabilized only after the remaining drainage area has . been properly stabilized

STABILIZED CONSTRUCTION ENTRANCE

- The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public roadways. This may require periodic top dressing with additional stone as conditions demand, as well as repair and clean out of any measure devices used to trap sediment.
- All sediment that is spilled, dropped, washed or tracked onto public roadway must be removed immediately by contractor.

TEMPORARY SEDIMENT TRAP

Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%. For perimeter controls such as silt fences, berms, etc., the trapped sediment must be removed before it reaches 50% of the above-ground height.

The stabilized construction entrance will be removed once the driveway to the proposed site is complete. Disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality guidelines and specifications.

Maintenance records shall be kept on the installation, maintenance, or removal of items necessary for the proper operation of the facilities.

All inspections shall be documented.

An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

This Maintenance Plan is based on TCEO Maintenance Guidelines.

EDWARDS AQUIFER CONTRIBUTING ZONE STORMWATER QUALITY MAINTENANCE PLAN

INSTA	LLATION	MAINTENANCE		REN	IOVAL
DATE	CONTROL TYPE	DATE	CONTROL TYPE	DATE	CONTROL TYPE

Note: Reference Contributing Zone Application Attachment N Maintenance Plan and Schedule for BMP's

ATTACHMENT J – Schedule of Interim and Permanent Soil Stabilization Practices

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

SOIL STABILIZATION PRACTICES: _____HYDROMULCHING _____TEMPORARY SEEDING _____TEMPORARY SEEDING _____TERMANENT PLANTING, SODDING, OR SEEDING _____SOIL RETENTION BLANKET _____BUFFER ZONES _____PRESERVATION OF NATURAL RESOURCES

OTHER: Disturbed areas, in which construction activity has ceased temporarily or permanently, shall be stabilized within 14 days unless activities are scheduled to resume and done within 21 days.

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: <u>Richard Underwood</u>, P.E.

Date: 01/14/2025

Signature of Customer/Agent

Regulated Entity Name: New Braunfels High School Phase 2

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

□ N/A

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

and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.

N/A

Responsibility for Maintenance of Permanent BMP(s)

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

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

N/A

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

🗌 N/A

ATTACHMENT B – BMPs for Upgradient Stormwater

Permanent water quality features have been installed and sized for upgradient stormwater.

ATTACHMENT C – BMPs for On-site Stormwater

Permanent BMPS for the proposed High School Improvements are needed. Proposed BMPS will include a Jellyfish filter for the parking lot south of the phase 1 building, and another Jellyfish filter treating the proposed artificial turf practice field to the south.

ATTACHMENT F – Construction Plans and Design Calculations

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Date Prepared: Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet. 1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30 Page 3-29 Equation 3.3: L_M = 27.2(A_N x P) L_{M TOTAL PROJECT} = Required TSS removal resulting from the proposed development = 80% of increased load where: A_N = Net increase in impervious area for the project P = Average annual precipitation, inches Site Data: Determine Required Load Removal Based on the Entire Project County = Comal Total project area included in plan * = 53.05 acres Predevelopment impervious area within the limits of the plan * = 32.57 acres Total post-development impervious area within the limits of the plan* = 37.00 acres Total post-development impervious cover fraction * = 0.70 P = 33 inches This sheet is intended to document the TSS removal L_{M TOTAL PROJECT} = 3976 lbs. associated with the * The values entered in these fields should be for the total project area. Baseball field conversion to artificial turf by others. Number of drainage basins / outfalls areas leaving the plan area = 3 2. Drainage Basin Parameters (This information should be provided for each basin): Drainage Basin/Outfall Area No. = Baseball Total drainage basin/outfall area = 2.72 acres Predevelopment impervious area within drainage basin/outfall area = 0.00 acres Post-development impervious area within drainage basin/outfall area = 2.72 acres Post-development impervious fraction within drainage basin/outfall area = 1.00 L_{M THIS BASIN} = 2441 lbs. 3. Indicate the proposed BMP Code for this basin. Proposed BMP = Vegetated Filter Strips

> Aqualogic Cartridge Filter Bioretention Contech StormFilter Constructed Wetland Extended Detention Grassy Swale Retention / Irrigation Sand Filter Stormceptor

Project Name: NBHS Phase 2

Vegetated Filter Strips Vortechs Wet Basin Wet Vault

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: $L_R = (BMP \text{ efficiency}) \times P \times (A_1 \times 34.6 + A_P \times 0.54)$

85

percent

Removal efficiency =

where:

- $A_{\rm C}$ = Total On-Site drainage area in the BMP catchment area
- A_{I} = Impervious area proposed in the BMP catchment area
- A_P = Pervious area remaining in the BMP catchment area
- L_R = TSS Load removed from this catchment area by the proposed BMP

$A_{\rm C} =$	2.72	acres
$A_I =$	2.72	acres
$A_P =$	0.00	acres
$L_R =$	2640	lbs

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

Desired $L_{M THIS BASIN} = 2640$ lbs.

F = **1.00**

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

Calculations from RG-348



Pages 3-34 to 3-36

Rainfall Depth = Post Development Runoff Coefficient	- 0.82	inches	
On-site Water Quality Volume	= 32239	cubic feet	
	Calculations	from RG-348	Pages 3-36 to 3-37
Off-site area draining to BMP		acres	
Off-site Impervious cover draining to BMP		acres	
Impervious fraction of off-site area Off-site Runoff Coefficient			
Off-site Water Quality Volume		cubic feet	
Storage for Sediment	= 6448		
Total Capture Volume (required water quality volume(s) x 1.20)		cubic feet	
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	Designed as	Required in RC	G-348 Pages 3-42 to 3-46
Required Water Quality Volume for retention basin	= NA	cubic feet	
Irrigation Area Calculations:			
Soil infiltration/permeability rate Irrigation area		in/hr square feet acres	Enter determined permeability rate or assumed value of 0.1
8. Extended Detention Basin System Required Water Quality Volume for extended detention basin	-	Required in RC	G-348 Pages 3-46 to 3-51
9. Filter area for Sand Filters	Designed as	Required in RC	G-348 Pages 3-58 to 3-63
9A. Full Sedimentation and Filtration System			
Water Quality Volume for sedimentation basin	= NA	cubic feet	
Water Quality Volume for sedimentation basin Minimum filter basin area		cubic feet square feet	
Minimum filter basin area Maximum sedimentation basin area	= NA = NA	square feet	For minimum water depth of 2 feet
Minimum filter basin area	= NA = NA	square feet square feet	For minimum water depth of 2 feet For maximum water depth of 8 feet
Minimum filter basin area Maximum sedimentation basin area	= NA = NA	square feet square feet	
Minimum filter basin area Maximum sedimentation basin area Minimum sedimentation basin area	= NA = NA = NA	square feet square feet	
Minimum filter basin area Maximum sedimentation basin area Minimum sedimentation basin area <u>9B. Partial Sedimentation and Filtration System</u>	= NA = NA = NA	square feet square feet square feet	For maximum water depth of 8 feet

10. Bioretention System

Designed as Required in RG-348

Required Water Quality Volume for Bioretention Basin = **NA** cubic feet

1. Wet Basins		Designed as	Required in RO	G-348	Pages 3-66 to 3-71
	Required capacity of Permanent Pool = Required capacity at WQV Elevation =		cubic feet cubic feet		ool Capacity is 1.20 times the WQV y should be the Permanent Pool Capacity d WQV.
2. Constructed Wetlands		Designed as	Required in RO	G-348	Pages 3-71 to 3-73
Required Wa	ater Quality Volume for Constructed Wetlands =	NA	cubic feet		
3. AquaLogic [™] Cartridge Syst	<u>em</u>	Designed as	Required in RO	G-348	Pages 3-74 to 3-78
* 2005 Technical Guidance Ma	nual (RG-348) does not exempt the required 2	20% increase	with maintena	ince contract v	vith AquaLogic [™] .
	Required Sedimentation chamber capacity = Filter canisters (FCs) to treat WQV = Filter basin area (RIA _F) =	NA	cubic feet cartridges square feet		
4. Stormwater Management St	ormFilter® by CONTECH				
Required Water O	uality Volume for Contech StormFilter System =	NA	cubic feet		

THE SIZING REQUIREMENTS FOR THE FOLLOWING BMPS/LOAD REMOVALS ARE BASED UPON FLOW RATES - NOT CALCULATED WATER QUALITY VOLUMES

15. Grassy Swales

Designed as Required in RG-348

Pages 3-51 to 3-54

Pages 3-63 to 3-65

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Date Prepared: Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet. 1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30 Page 3-29 Equation 3.3: L_M = 27.2(A_N x P) L_{M TOTAL PROJECT} = Required TSS removal resulting from the proposed development = 80% of increased load where: A_N = Net increase in impervious area for the project P = Average annual precipitation, inches Site Data: Determine Required Load Removal Based on the Entire Project County = Comal Total project area included in plan * = 53.05 acres Predevelopment impervious area within the limits of the plan * = 32.57 acres Total post-development impervious area within the limits of the plan* = 37.00 acres Total post-development impervious cover fraction * = 0.70 P = 33 inches This sheet is intended to document the TSS removal L_{M TOTAL PROJECT} = 3976 lbs. associated with the Football * The values entered in these fields should be for the total project area. field conversion to artificial turf by others. Number of drainage basins / outfalls areas leaving the plan area = 3 2. Drainage Basin Parameters (This information should be provided for each basin): Drainage Basin/Outfall Area No. = Football Total drainage basin/outfall area = 3.44 acres Predevelopment impervious area within drainage basin/outfall area = 0.00 acres Post-development impervious area within drainage basin/outfall area = 3.44 acres Post-development impervious fraction within drainage basin/outfall area = 1.00 L_{M THIS BASIN} = 3088 lbs. 3. Indicate the proposed BMP Code for this basin. Proposed BMP = Vegetated Filter Strips Removal efficiency = 85 percent

Aqualogic Cartridge Filter Bioretention Contech StormFilter Constructed Wetland Extended Detention Grassy Swale Retention / Irrigation Sand Filter Stormceptor Vegetated Filter Strips Vortechs Wet Basin Wet Vault

Project Name: NBHS Phase 2

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: $L_R = (BMP \text{ efficiency}) \times P \times (A_1 \times 34.6 + A_P \times 0.54)$

where:

- $A_{\rm C}$ = Total On-Site drainage area in the BMP catchment area
- A_{I} = Impervious area proposed in the BMP catchment area
- A_P = Pervious area remaining in the BMP catchment area
- L_R = TSS Load removed from this catchment area by the proposed BMP

$A_{C} =$	3.44	acres
$A_I =$	3.44	acres
$A_P =$	0.00	acres
$L_R =$	3339	lbs

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

Desired $L_{M THIS BASIN} =$ 3339 lbs.

F = **1.00**

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

Calculations from RG-348

Pages 3-34 to 3-36



Rainfall Depth =		inches	
Post Development Runoff Coefficient = On-site Water Quality Volume =	0.82 40773	cubic feet	
	Calculations	from RG-348	Pages 3-36 to 3-37
Off-site area draining to BMP =	0.00	acres	
Off-site Impervious cover draining to BMP =	0.00	acres	
Impervious fraction of off-site area =			
Off-site Runoff Coefficient = Off-site Water Quality Volume =		cubic feet	
	Ū		
Storage for Sediment =	8155		
Total Capture Volume (required water quality volume(s) x 1.20) =	48927	cubic feet	
The following sections are used to calculate the required water quality volum	ne(s) for the s	elected BMP.	
The values for BMP Types not selected in cell C45 will show NA. 7. Retention/Irrigation System	Designed as	Required in RC	G-348 Pages 3-42 to 3-46
7. Recention/ingation bystem	Designed as		
Required Water Quality Volume for retention basin =	NA	cubic feet	
Irrigation Area Calculations:			
Soil infiltration/permeability rate =	0.1	in/hr	Enter determined permeability rate or assumed value of 0.1
Irrigation area =		square feet	
	NA	acres	
8. Extended Detention Basin System	Designed as	Required in RC	G-348 Pages 3-46 to 3-51
Required Water Quality Volume for extended detention basin =	NA	cubic feet	
9. Filter area for Sand Filters	Designed as	Required in RC	G-348 Pages 3-58 to 3-63
9. Filter area for Sand Filters 9A. Full Sedimentation and Filtration System	Designed as	Required in RC	G-348 Pages 3-58 to 3-63
	-	Required in RC	G-348 Pages 3-58 to 3-63
9A. Full Sedimentation and Filtration System	NA		G-348 Pages 3-58 to 3-63
9A. Full Sedimentation and Filtration System Water Quality Volume for sedimentation basin = Minimum filter basin area =	NA	cubic feet square feet	
9A. Full Sedimentation and Filtration System Water Quality Volume for sedimentation basin =	NA NA NA	cubic feet square feet square feet	G-348 Pages 3-58 to 3-63 For minimum water depth of 2 feet For maximum water depth of 8 feet
<u>9A. Full Sedimentation and Filtration System</u> Water Quality Volume for sedimentation basin = Minimum filter basin area = Maximum sedimentation basin area =	NA NA NA	cubic feet square feet square feet	For minimum water depth of 2 feet
<u>9A. Full Sedimentation and Filtration System</u> Water Quality Volume for sedimentation basin = Minimum filter basin area = Maximum sedimentation basin area =	NA NA NA	cubic feet square feet square feet	For minimum water depth of 2 feet
<u>9A. Full Sedimentation and Filtration System</u> Water Quality Volume for sedimentation basin = Minimum filter basin area = Maximum sedimentation basin area = Minimum sedimentation basin area =	NA NA NA	cubic feet square feet square feet	For minimum water depth of 2 feet
<u>9A. Full Sedimentation and Filtration System</u> Water Quality Volume for sedimentation basin = Minimum filter basin area = Maximum sedimentation basin area = Minimum sedimentation basin area =	NA NA NA NA	cubic feet square feet square feet square feet	For minimum water depth of 2 feet
<u>9A. Full Sedimentation and Filtration System</u> Water Quality Volume for sedimentation basin = Minimum filter basin area = Maximum sedimentation basin area = Minimum sedimentation basin area = <u>9B. Partial Sedimentation and Filtration System</u> Water Quality Volume for combined basins =	NA NA NA NA	cubic feet square feet square feet square feet cubic feet square feet	For minimum water depth of 2 feet
<u>9A. Full Sedimentation and Filtration System</u> Water Quality Volume for sedimentation basin = Minimum filter basin area = Maximum sedimentation basin area = Minimum sedimentation basin area = <u>9B. Partial Sedimentation and Filtration System</u> Water Quality Volume for combined basins = Minimum filter basin area =	NA NA NA NA NA	cubic feet square feet square feet square feet cubic feet square feet	For minimum water depth of 2 feet For maximum water depth of 8 feet

	Required Water Quality Volume for Bioretention Basin	= NA	cubic feet	
11. Wet Basins		Designed as	s Required in RG-	-348 Pages 3-66 to 3-71
	Required capacity of Permanent Pool Required capacity at WQV Elevation		cubic feet	Permanent Pool Capacity is 1.20 times the WQV Total Capacity should be the Permanent Pool Capacity plus a second WQV.
12. Constructed V	<u>Vetlands</u>	Designed as	s Required in RG-	348 Pages 3-71 to 3-73
	Required Water Quality Volume for Constructed Wetlands	= NA	cubic feet	
13. AquaLogic [™] (Cartridge System	Designed as	s Required in RG-	-348 Pages 3-74 to 3-78
* 2005 Technical	Guidance Manual (RG-348) does not exempt the required	d 20% increase	e with maintenan	ice contract with AquaLogic [™] .
	Required Sedimentation chamber capacity Filter canisters (FCs) to treat WQV Filter basin area (RIA _F)	= NA	cubic feet cartridges square feet	
14. Stormwater M	anagement StormFilter® by CONTECH			
		= NA	cubic feet	

Designed as Required in RG-348

THE SIZING REQUIREMENTS FOR THE FOLLOWING BMPS/LOAD REMOVALS ARE BASED UPON FLOW RATES - NOT CALCULATED WATER QUALITY VOLUMES

15. Grassy Swales

10. Bioretention System

Designed as Required in RG-348

Pages 3-51 to 3-54

Pages 3-63 to 3-65

TSS Removal Calculations			
Project Name: Date Prepared:	New Braunfels High School Phase 2 1/21/2025		
1. The Required Load Reduction			
Calculations from RG-348 Pages 3-27 to 3-30	Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$		
A _N =	Required TSS removal resulting from the proposed development = 80% of Net increase in impervious area for the project Average annual precipitation, inches	of increased lo	bad
Site Data:	Determine Required Load Removal Based on the Entire Project		
Т	County = Total project area included in plan * = Predevelopment impervious area within the limits of the plan * = otal post-development impervious area within the limits of the plan * = Total post-development impervious cover fraction * = P =	Comal 53.05 37.00 40.76 0.77 33	acres acres acres inches
	L _{M TOTAL PROJECT} =	3376	lbs.
	Number of drainage basins / outfalls areas leaving the plan area =	3	
2. Drainage Basin Parameters (This information should be provided for each basin):		
	Drainage Basin/Outfall Area No. =	PR-A4.1	
	Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area = Post-development impervious area within drainage basin/outfall area = -development impervious fraction within drainage basin/outfall area = L _{M THIS BASIN} =	2.19 0.00 2.19 1.00 1967	acres acres acres Ibs.
3. Indicate the proposed BMP C	ode for this basin.		
	Proposed BMP =	JF	abbreviation
4. Calculate Maximum TSS Loa	Removal efficiency = $d \operatorname{Removed}(L_p)$ for this Drainage Basin by the selected BMP Type	86	percent
	RG-348 Page 3-33 Equation 3.7: LR = (BMP efficiency) x P x (A ₁ x 34.6 + A _P x 0.54)	<u></u>	
$A_1 = A_p =$	Total On-Site drainage area in the BMP catchment area Impervious area proposed in the BMP catchment area Pervious area remaining in the BMP catchment area TSS Load removed from this catchment area by the proposed BMP		
	A _C =	2.19	acres
	$A_1 = $ $A_p = $ $L_R = $	2.19 0.00 2150	acres RICHARD J. UNDERWOOD acres 117843
5. Calculate Fraction of Annual	-™ Runoff to Treat the drainage basin / outfall area	2100	1, A GISTERE T
	Desired L _{M THIS BASIN} = F =	<mark>1967</mark> 0.91	Ibs. Jun Juntan 01/14/25
6. Calculate Treated Flow requi	red by the BMP Type for this drainage basin / outfall area.		
Calculations from RG-348			
Pages Section 3.2.22	Rainfall Intensity = Effective Area = Cartridge Length =	1.15 1.97 54	inches per hour acres inches
	Peak Treatment Flow Required =	2.29	cubic feet per second
7. Jellyfish Designed as Required in RG-348 Section 3.2.22			
	Flow Through Jellyfish Size Jellyfish Size for Flow-Based Configuration = JF	PD0808-12	2-3
	Jellyfish Treatment Flow Rate =	2.41	cfs

TSS Removal Calculations				
Project Name: Date Prepared:	New Braunfels High School Phase 2 1/21/2025			
I. The Required Load Reduction	n for the total project:			
Calculations from RG-348 Pages 3-27 to 3-30	Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$			
A _N =	Required TSS removal resulting from the proposed development = 80% of Net increase in impervious area for the project Average annual precipitation, inches	increased load	i	
Site Data:	Determine Required Load Removal Based on the Entire Project			
Τι	County = Total project area included in plan * = Predevelopment impervious area within the limits of the plan * = otal post-development impervious area within the limits of the plan* = Total post-development impervious cover fraction * = P =	Comal 53.05 37.00 40.76 0.77 33	acres acres acres inches	
	L _{MTOTAL PROJECT} =	3376	lbs.	
	Number of drainage basins / outfalls areas leaving the plan area =	3		
2. Drainage Basin Parameters (This information should be provided for each basin):			
	Drainage Basin/Outfall Area No. = <mark>PR</mark>	-A5 & PR-A5	1	
Р	Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area = ost-development impervious area within drainage basin/outfall area = development impervious fraction within drainage basin/outfall area = L _{M THIS BASIN} =	2.33 0.00 2.24 0.96 2012	acres acres acres Ibs.	
3. Indicate the proposed BMP C	ode for this basin.			
	Proposed BMP =	JF	abbreviation	
4. Calavilata Maximum TCC Laga	Removal efficiency =	86	percent	
4. Calculate Maximum 155 Load	d Removed (L_R) for this Drainage Basin by the selected BMP Type	<u>.</u>		
	RG-348 Page 3-33 Equation 3.7: LR = (BMP efficiency) x P x (A_1 x 34.6 + A_P x 0.54)			
$\begin{array}{l} A_1 = \\ A_{P} = \end{array}$	Total On-Site drainage area in the BMP catchment area Impervious area proposed in the BMP catchment area Pervious area remaining in the BMP catchment area TSS Load removed from this catchment area by the proposed BMP			
	A _C =	2.33		
	A ₁ = A _P =	2.24 0.09	acres *	
	L _R =	2201	lbs. 117843	
5. Calculate Fraction of Annual	Runoff to Treat the drainage basin / outfall area	0010	WW (MAL ENT	
	Desired L _{M THIS} BASIN = F =	2012 0.91	Ibs. Im many 01/1	4/25
6. Calculate Treated Flow requi	red by the BMP Type for this drainage basin / outfall area.			
Calculations from RG-348				
Pages Section 3.2.22	Rainfall Intensity = Effective Area =	1.15 2.02	inches per hour acres	
	Cartridge Length =	54	inches	
	Peak Treatment Flow Required =	2.34	cubic feet per second	
7. Jellyfish Designed as Required in RG-348 Section 3.2.22				
]	Flow Through Jellyfish Size		2	
	Jellyfish Size for Flow-Based Configuration = Jf Jellyfish Treatment Flow Rate =	PD0808-12 2.41	-3 cfs	

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Date Prepared: Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet. 1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30 Page 3-29 Equation 3.3: L_M = 27.2(A_N x P) L_{M TOTAL PROJECT} = Required TSS removal resulting from the proposed development = 80% of increased load where: A_N = Net increase in impervious area for the project P = Average annual precipitation, inches Site Data: Determine Required Load Removal Based on the Entire Project County = Comal Total project area included in plan * = 53.05 acres Predevelopment impervious area within the limits of the plan * = 32.57 acres Total post-development impervious area within the limits of the plan* = 37.00 acres Total post-development impervious cover fraction * = 0.70 P = 33 inches L_{M TOTAL PROJECT} = 3976 lbs. This sheet is intended to * The values entered in these fields should be for the total project area. document the TSS removal associated with the Softball field conversion to artificial Number of drainage basins / outfalls areas leaving the plan area = 3 turf by others. 2. Drainage Basin Parameters (This information should be provided for each basin): Drainage Basin/Outfall Area No. = Softball Total drainage basin/outfall area = 0.95 acres Predevelopment impervious area within drainage basin/outfall area = 0.00 acres Post-development impervious area within drainage basin/outfall area = 0.95 acres Post-development impervious fraction within drainage basin/outfall area = 1.00 L_{M THIS BASIN} = 853 lbs. 3. Indicate the proposed BMP Code for this basin. Proposed BMP = Vegetated Filter Strips Removal efficiency = 85 percent

Aqualogic Cartridge Filter Bioretention Contech StormFilter Constructed Wetland Extended Detention Grassy Swale Retention / Irrigation Sand Filter Stormceptor Vegetated Filter Strips Vortechs Wet Basin Wet Vault

Project Name: NBHS Phase 2

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: $L_R = (BMP \text{ efficiency}) \times P \times (A_1 \times 34.6 + A_P \times 0.54)$

where:

- $A_{\rm C}$ = Total On-Site drainage area in the BMP catchment area
- A_I = Impervious area proposed in the BMP catchment area
- A_P = Pervious area remaining in the BMP catchment area
- L_R = TSS Load removed from this catchment area by the proposed BMP

$A_{C} =$	0.95	acres
$A_1 =$	0.95	acres
$A_P =$	0.00	acres
L _R =	922	lbs

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

Desired $L_{M THIS BASIN} =$ 922 lbs.

F = **1.00**

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

Calculations from RG-348

Pages 3-34 to 3-36



Rainfall Depth = Post Development Runoff Coefficient		inches	
On-site Water Quality Volume	= 11260	cubic feet	
	Calculations	from RG-348	Pages 3-36 to 3-37
Off-site area draining to BMP		acres	
Off-site Impervious cover draining to BMP Impervious fraction of off-site area		acres	
Off-site Runoff Coefficient			
Off-site Water Quality Volume	= 0	cubic feet	
Storage for Sediment	= 2252		
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.		cubic feet elected BMP.	
7. Retention/Irrigation System	Designed as	Required in RO	G-348 Pages 3-42 to 3-46
Required Water Quality Volume for retention basin	= NA	cubic feet	
Irrigation Area Calculations:			
Soil infiltration/permeability rate Irrigation area		in/hr square feet acres	Enter determined permeability rate or assumed value of 0.1
8. Extended Detention Basin System	Designed as	Required in R	G-348 Pages 3-46 to 3-51
Required Water Quality Volume for extended detention basin	= NA	cubic feet	
9. Filter area for Sand Filters	Designed as	Required in RO	G-348 Pages 3-58 to 3-63
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		•	For minimum water depth of 2 feet For maximum water depth of 8 feet
9B. Partial Sedimentation and Filtration System			
<u>9B. Partial Sedimentation and Filtration System</u> Water Quality Volume for combined basins	= NA	cubic feet	
		cubic feet square feet	

<u>10.</u>	Bioretention	System

Pages 3-63 to 3-65

Required Water Quality Volume for Bioretention Basin = **NA** cubic feet

1. Wet Basins		Designed as	Required in RO	G-348	Pages 3-66 to 3-71
	Required capacity of Permanent Pool = Required capacity at WQV Elevation =		cubic feet cubic feet		ool Capacity is 1.20 times the WQV / should be the Permanent Pool Capacity WQV.
2. Constructed Wetlands		Designed as	Required in RO	G-348	Pages 3-71 to 3-73
Required Wat	er Quality Volume for Constructed Wetlands =	NA	cubic feet		
3. AquaLogic [™] Cartridge Syste	<u>m</u>	Designed as	Required in RO	G-348	Pages 3-74 to 3-78
* 2005 Technical Guidance Manu	ual (RG-348) does not exempt the required 2	20% increase	with maintena	ince contract w	ith AquaLogic [™] .
	Required Sedimentation chamber capacity = Filter canisters (FCs) to treat WQV = Filter basin area (RIA _F) =	NA	cubic feet cartridges square feet		
4. Stormwater Management Sto	mFilter® by CONTECH				
Required Water Out	ality Volume for Contech StormFilter System =	NA	cubic feet		

THE SIZING REQUIREMENTS FOR THE FOLLOWING BMPS/LOAD REMOVALS ARE BASED UPON FLOW RATES - NOT CALCULATED WATER QUALITY VOLUMES

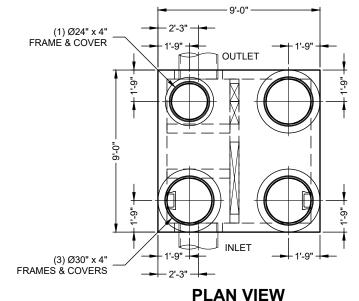
15. Grassy Swales

Designed as Required in RG-348

Pages 3-51 to 3-54

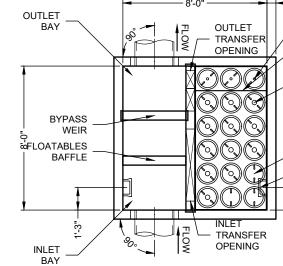
APPENDIX B

SHOP DRAWINGS





KOONTZ BRYANT JOHNSON WILLIAMS, **TBPE FIRM NUMBER F-23121**



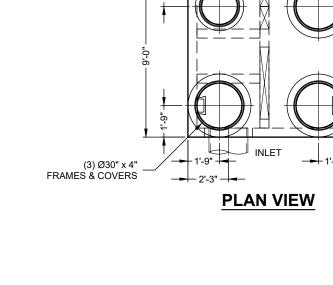
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CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED DOLUTIONS REPRESENTATIVE. WWW.ContechES.COM JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT. STRUCTURE SHALL MEET AASHTO HS-20, ASSUMING EARTH COVER OF 1'- 6.5", AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET ASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD. ISTALLATION NOTES . ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD. . CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT) . WHEN ACTIVATED PRIOR TO SITE STABILIZATION, CONTRACTOR TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF. . CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ACCORDING TO THE PROVISIONS IN THE ACTIVATION CHECKLIST AND THE QUOTED SCOPE OF WORK. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (800) 338-1122. THUCTURE WEIGHT PPROXIMATE HEAVIEST PICK OF (3) PIECES = 25,000 LBS. THUCTURE WEIGHT PPROXIMATE HEAVIEST PICK OF (3) PIECES = 25,000 LBS.									
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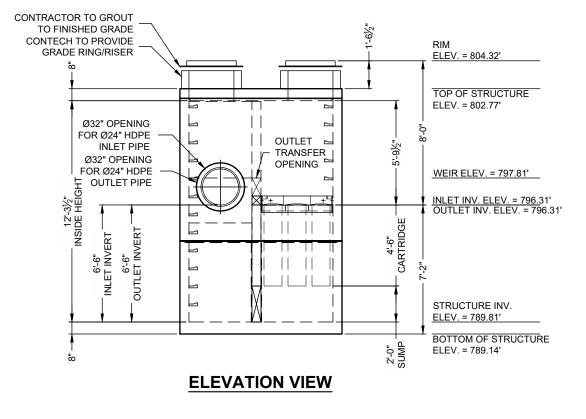
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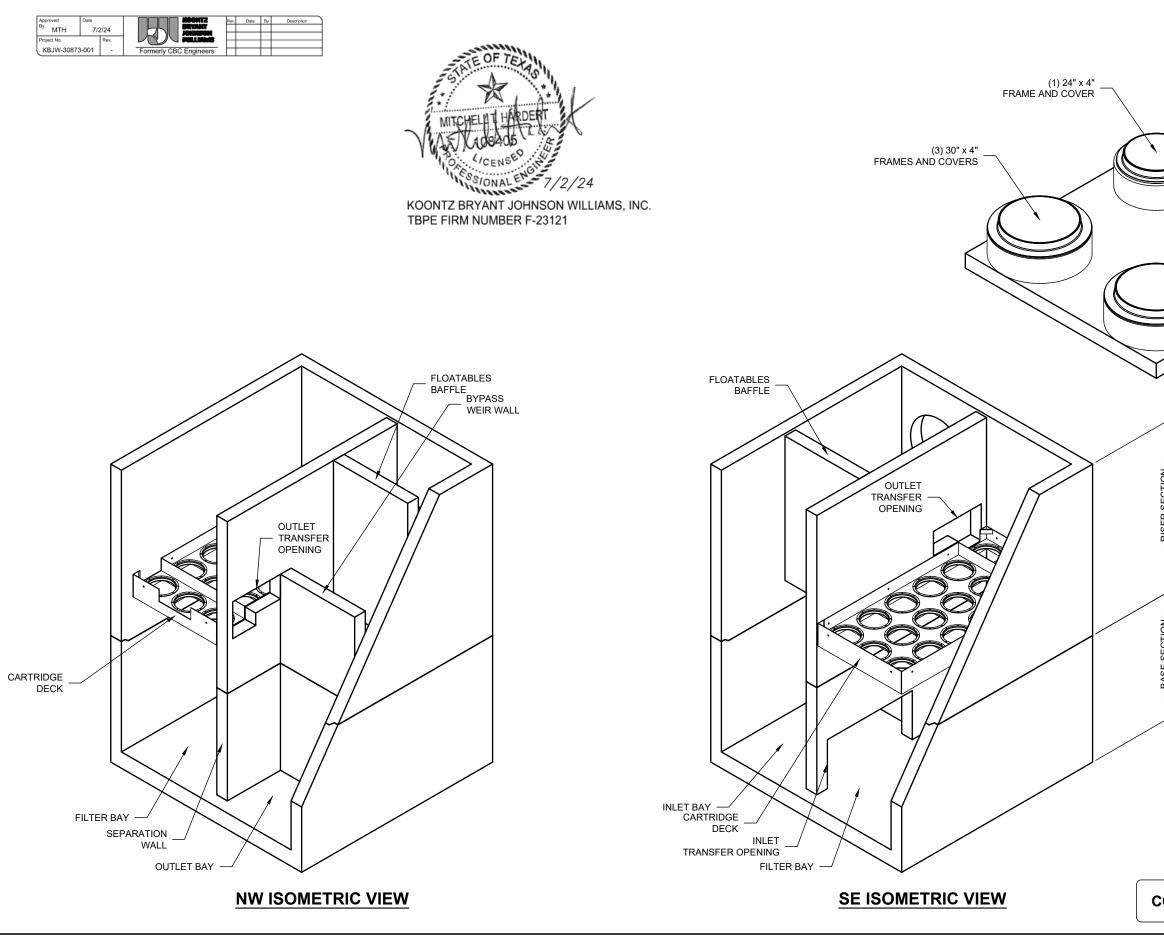
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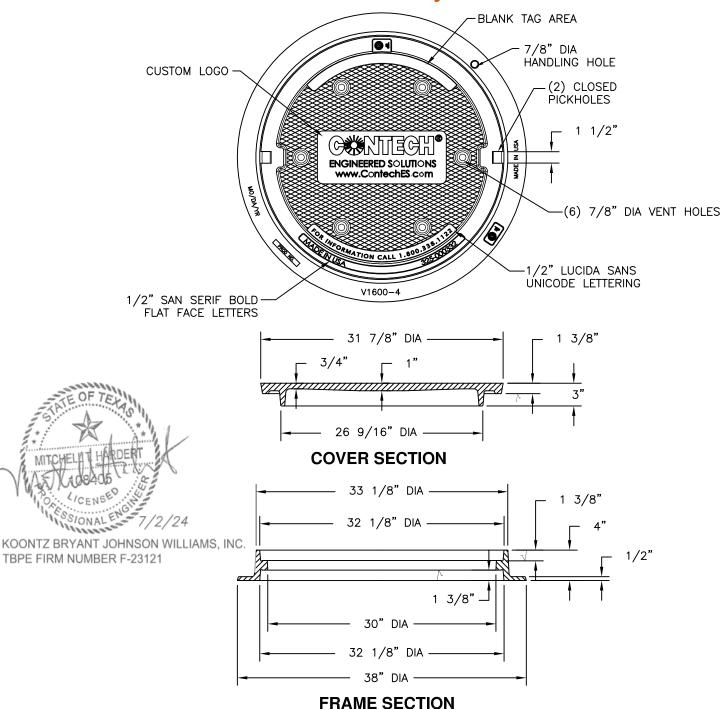


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	DATE: 06/28/2024 DESIGNED: RKD CHECKED: MSB RKD RKD RKD

1810B4 V1600-4 Assembly







Product Number 41600483 Design Features

- -Materials Cover Gray Iron (CL35B) Frame Gray Iron (CL35B)
- -Design Load Heavy Duty -Open Area n/a -Coating Undipped -√Designates Machined Surface

Certification

-- ASTM A48 --Country of Origin:USA

Major Components

00180783 41600410

Drawing Revision

05/09/2007 Designer: SMH 6/26/2017 Revised By: DAE

Disclaimer

Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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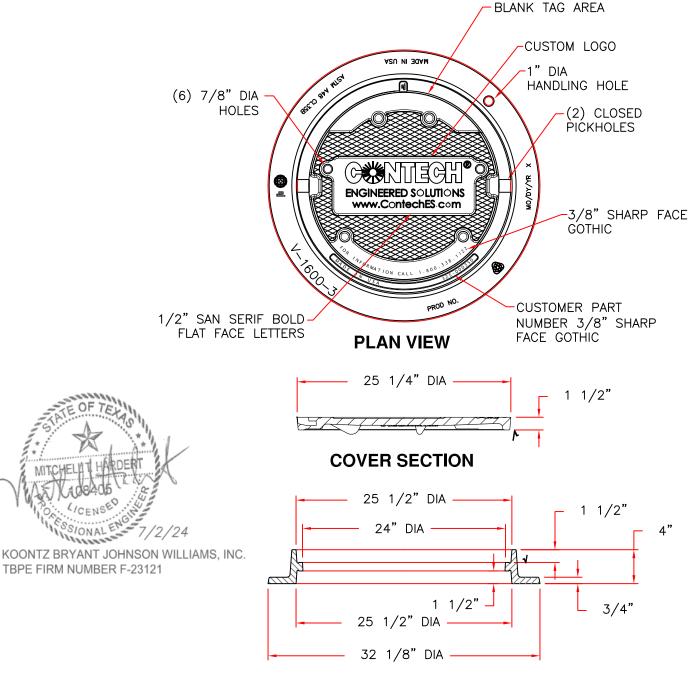
800 626 4653 ejco.com

V1600-3 V1610-3 Assembly

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Product Number 41600389 **Design Features**

-Materials Frame Gray Iron (CL35B) Cover Gray Iron (CL35B)

-Design Load Heavy Duty -Open Area n/a -Coating Undipped - V Designates Machined Surface

Certification

-ASTM A48 -Country of Origin: USA

Major Components

41600310 41600374

Drawing Revision

05/02/2008 Designer: DEW 6/20/2017 Revised By: DAE

Disclaimer

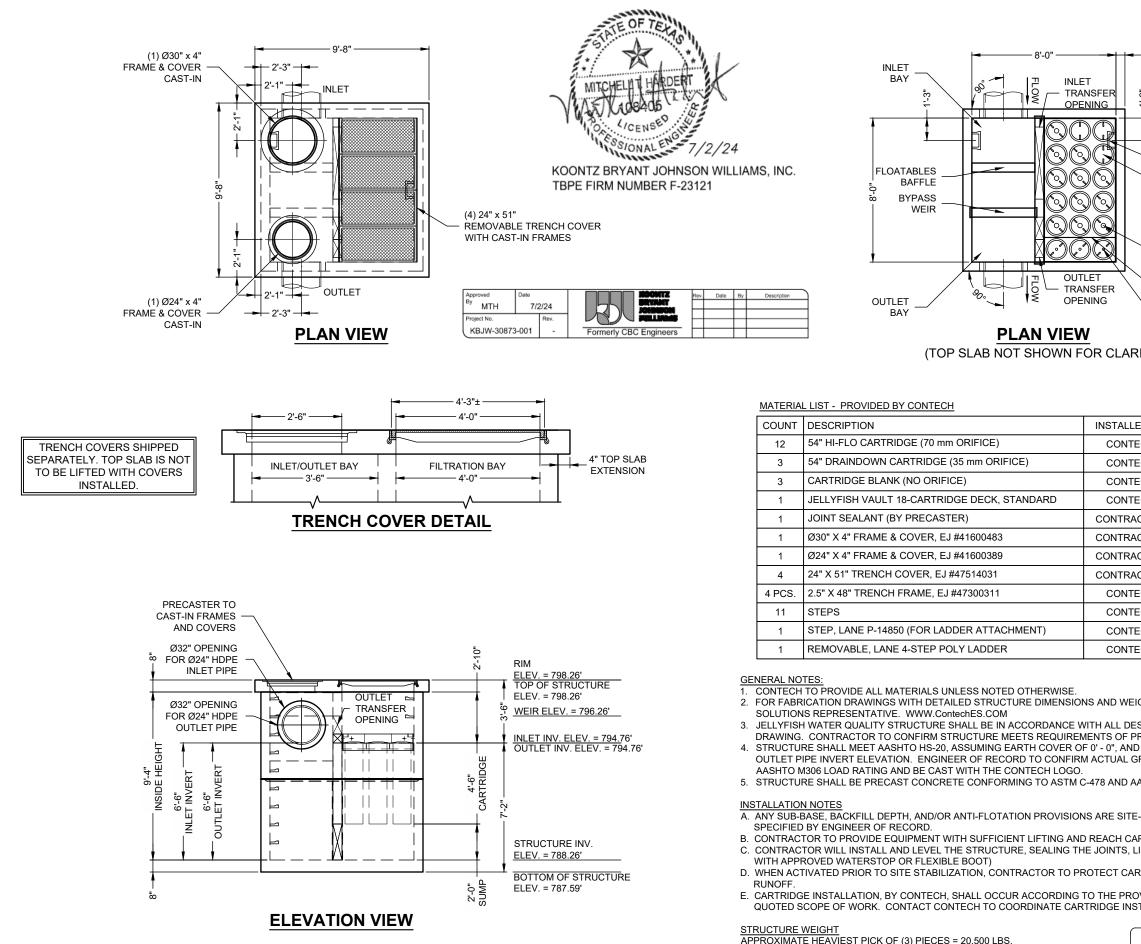
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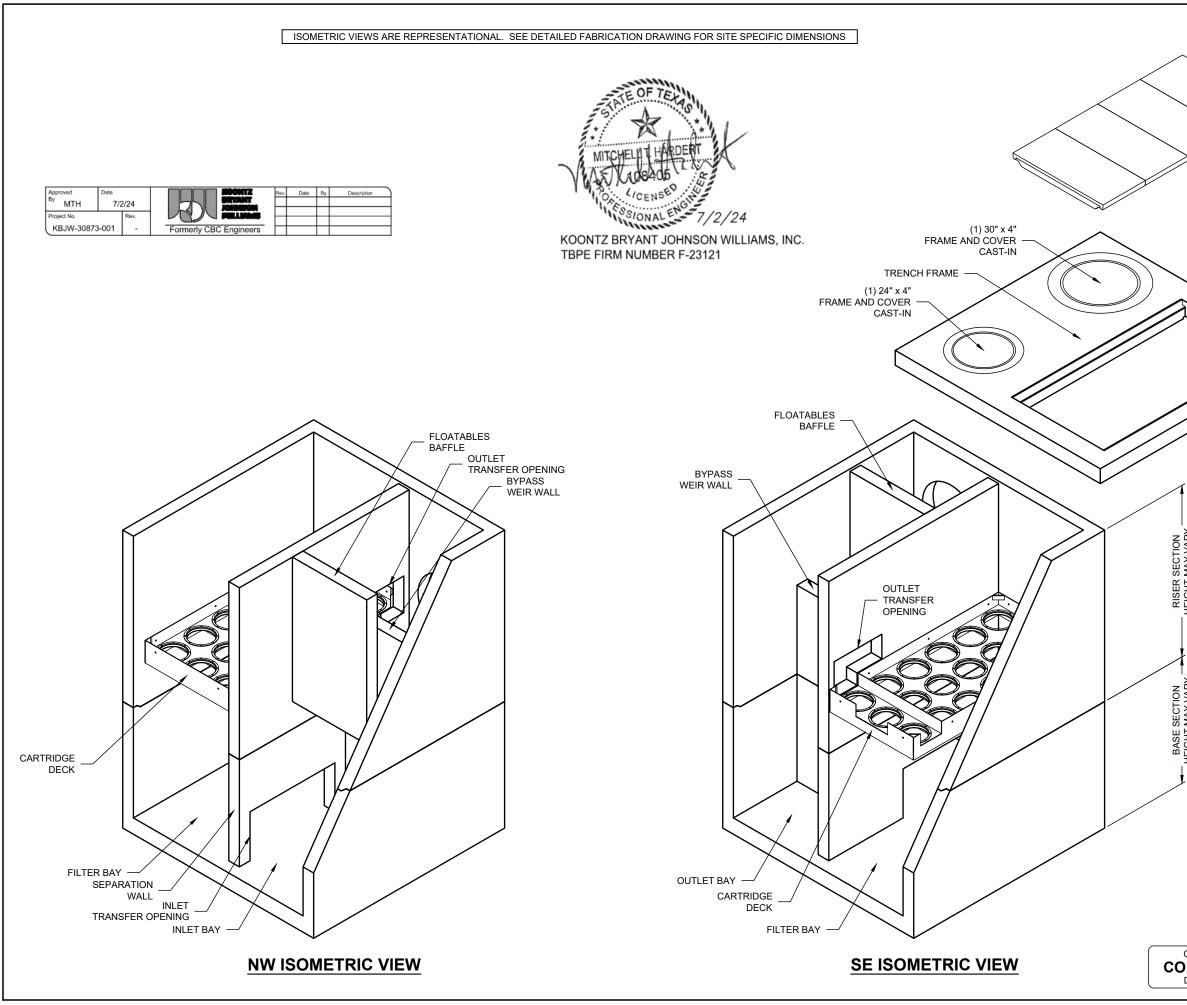
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RING SECTION



APPROXIMATE HEAVIEST PICK OF (3) PIECES = 20,500 LBS.

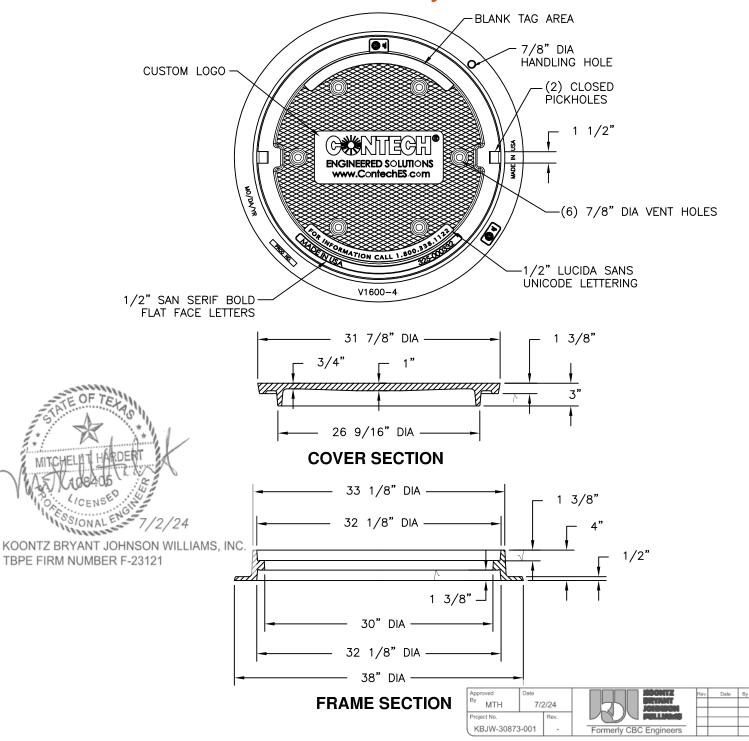
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1810B4 V1600-4 Assembly





Product Number 41600483 Design Features -Materials Cover Gray Iron (CL35B) Frame Gray Iron (CL35B)

-Design Load Heavy Duty -Open Area n/a -Coating Undipped -√Designates Machined Surface

Certification

- ASTM A48 -Country of Origin: USA

Major Components

00180783 41600410

Drawing Revision

05/09/2007 Designer: SMH 6/26/2017 Revised By: DAE

Disclaimer

Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

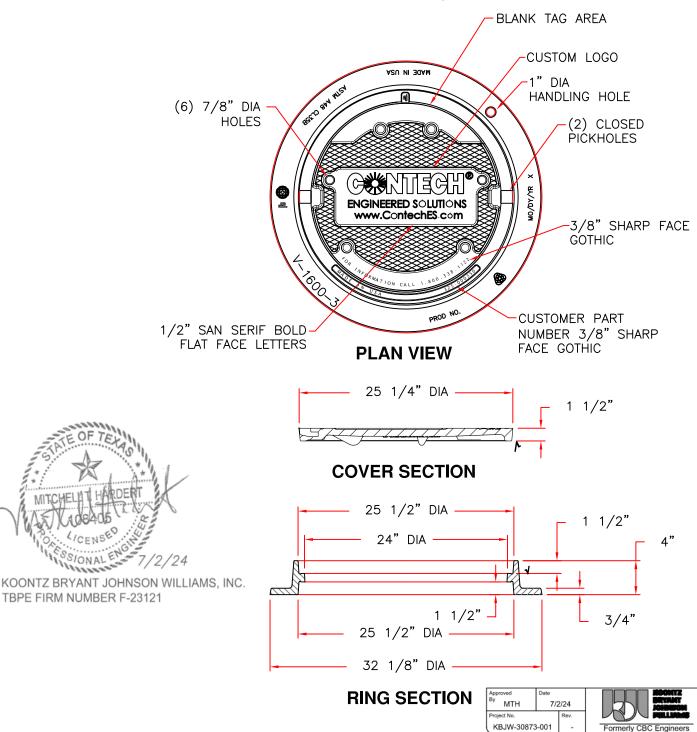
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Description

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V1600-3 V1610-3 Assembly





Product Number 41600389 Design Features

-Materials Frame Gray Iron (CL35B) Cover Gray Iron (CL35B)

-Design Load Heavy Duty -Open Area n/a -Coating Undipped -√Designates Machined Surface

Certification

-- ASTM A48 --Country of Origin: USA

Major Components

41600310 41600374

Drawing Revision

05/02/2008 Designer: DEW 6/20/2017 Revised By: DAE

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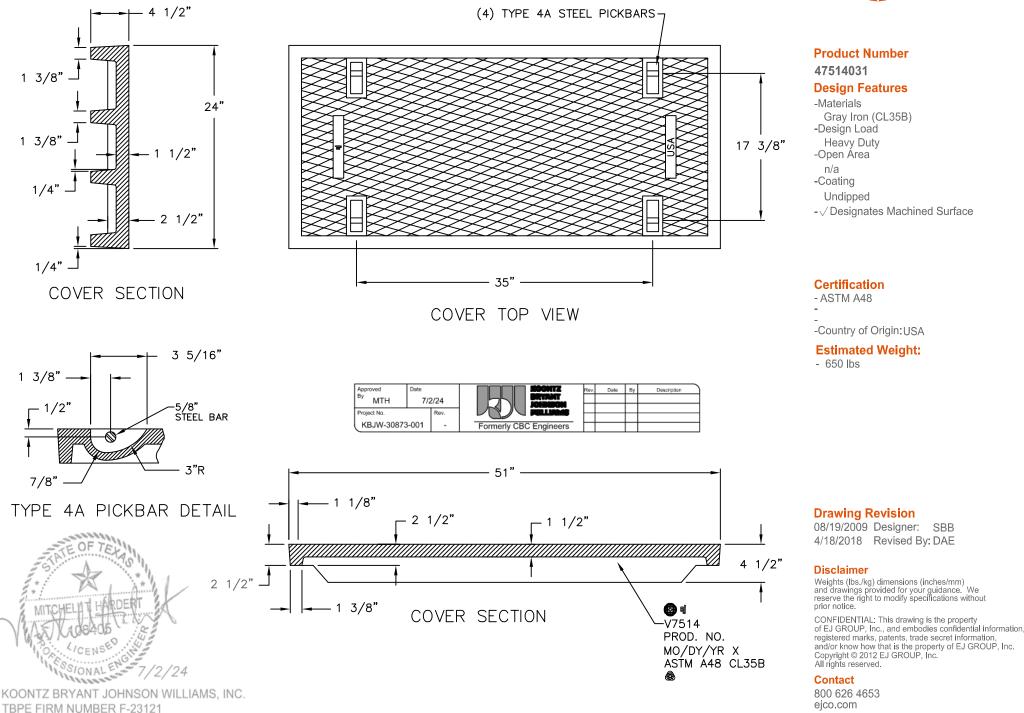
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V7514 Trench Cover

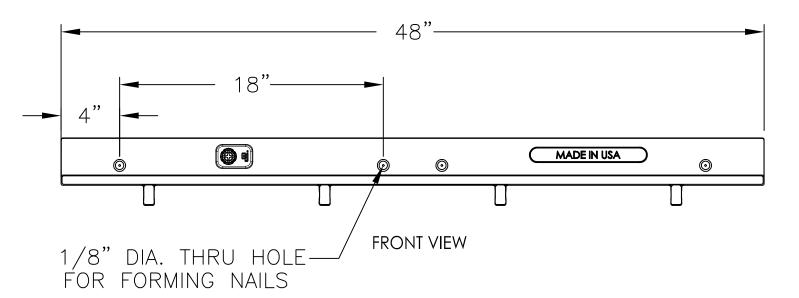


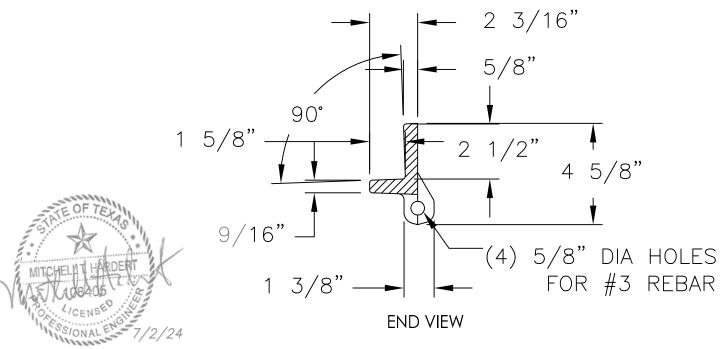


V7300-3 Trench Rail

Approved	Date				Rev.	Date	By	Description
By MTH	7/2	2/24						
Project No.		Rev.						
-				_				
KBJW-30873	3-001	-	Formerly CBC Enginee	rs				







Product Number 47300311 **Design Features** -Materials

Gray Iron (CL35B) -Design Load

Heavy Duty -Open Area

n/a

-Coating

Undipped

- / Designates Machined Surface

Certification

- ASTM A536

-Country of Origin: USA

Estimated Weight:

- 38 lbs

Drawing Revision

4/16/2005 Designer: SBB 4/18/2018 Revised By: DAE

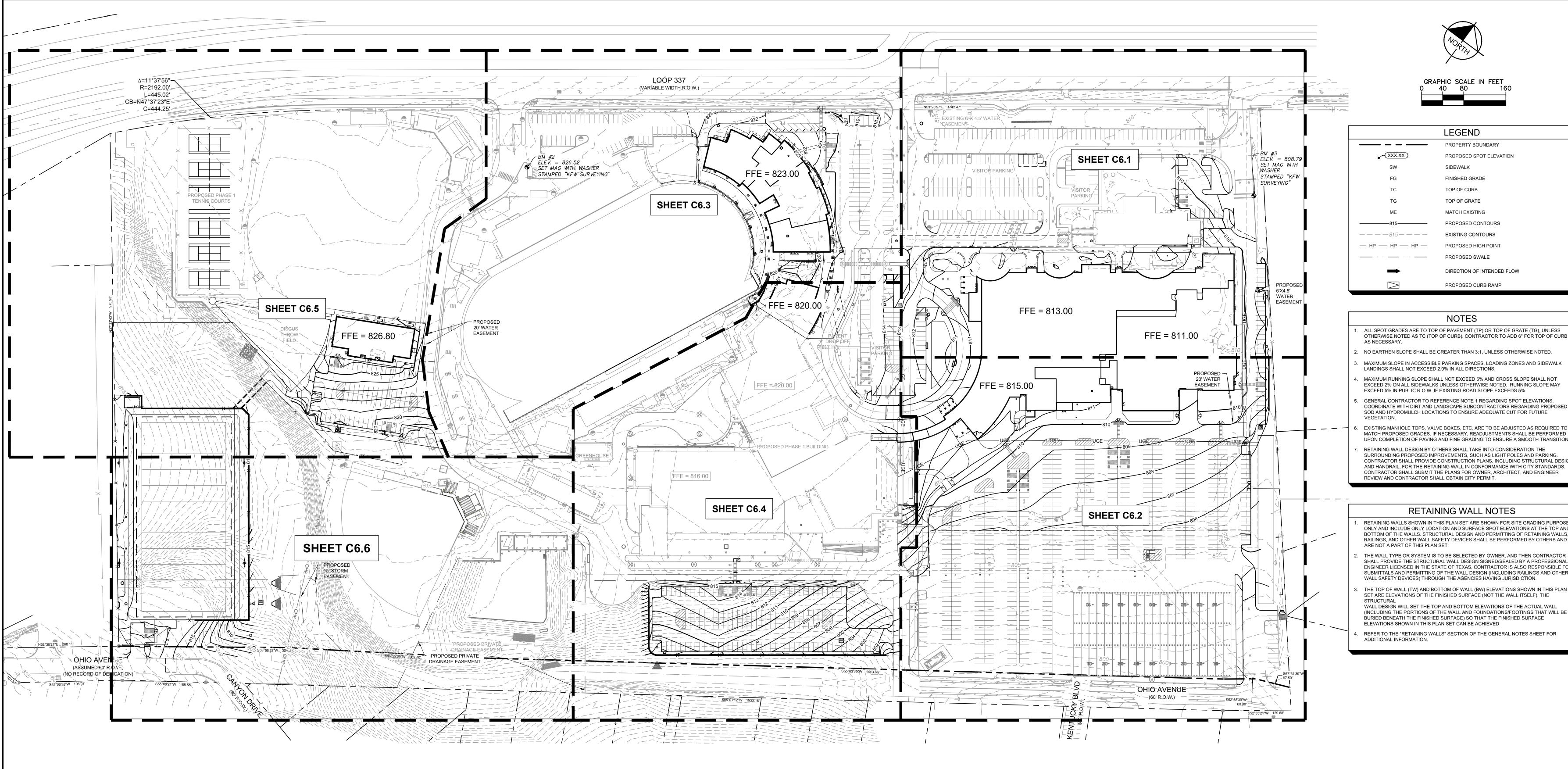
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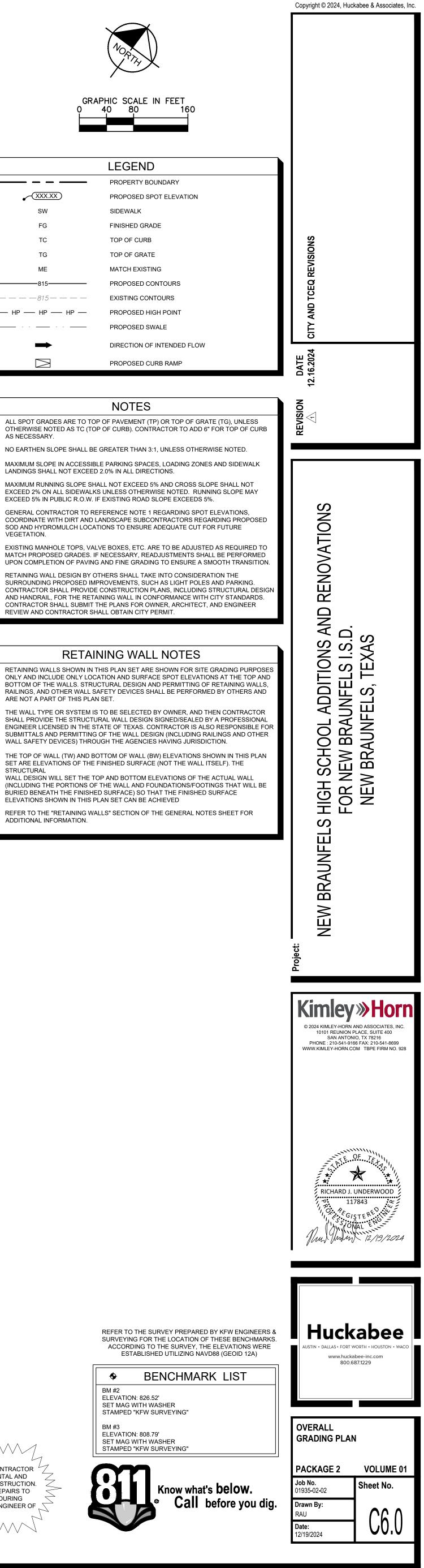
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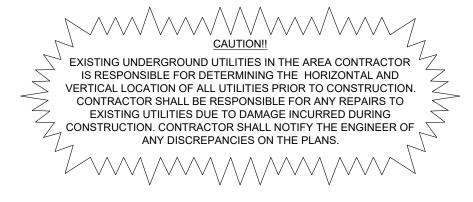
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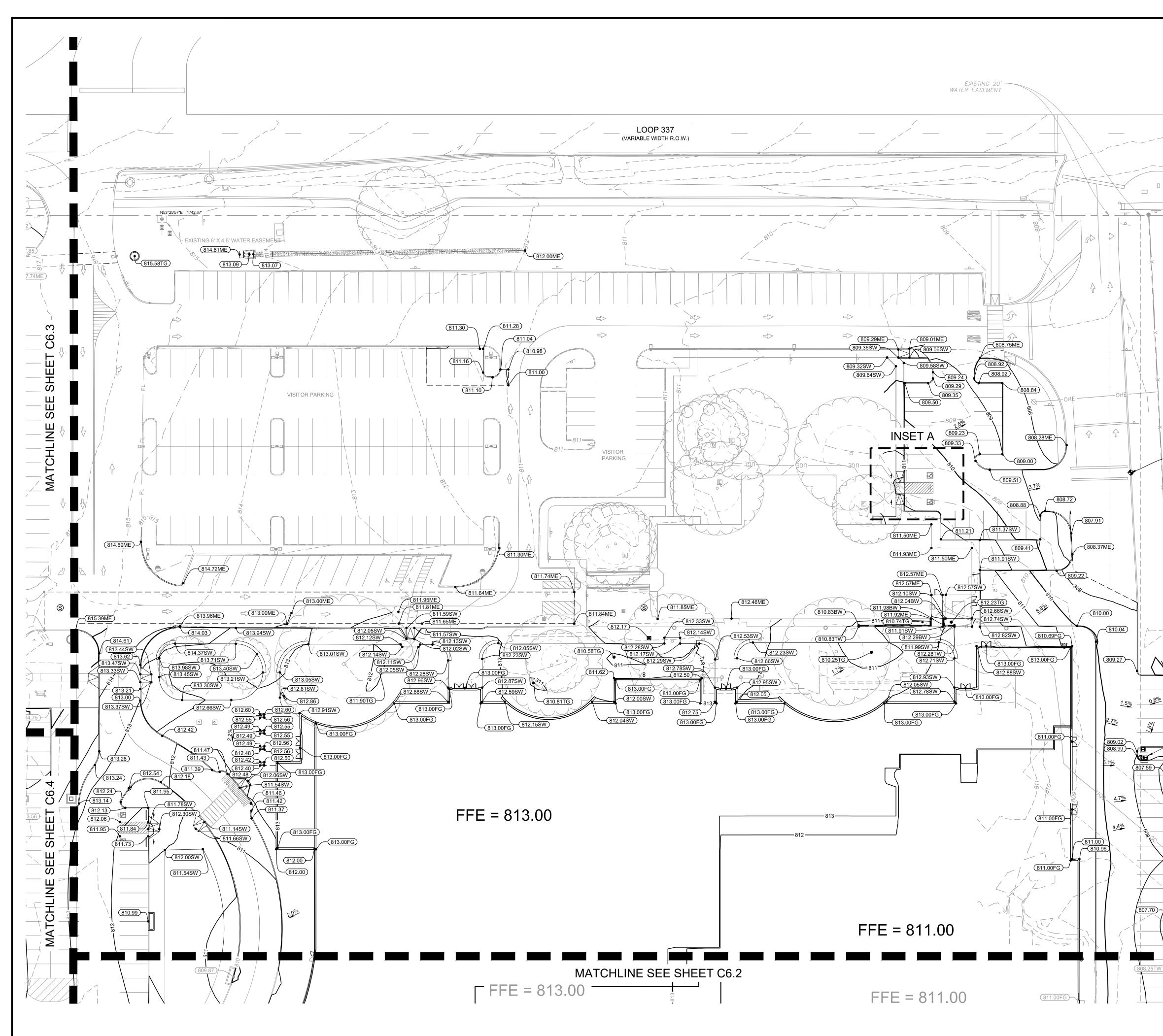
KOONTZ BRYANT JOHNSON WILLIAMS, INC. **TBPE FIRM NUMBER F-23121**

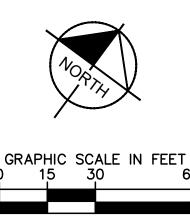


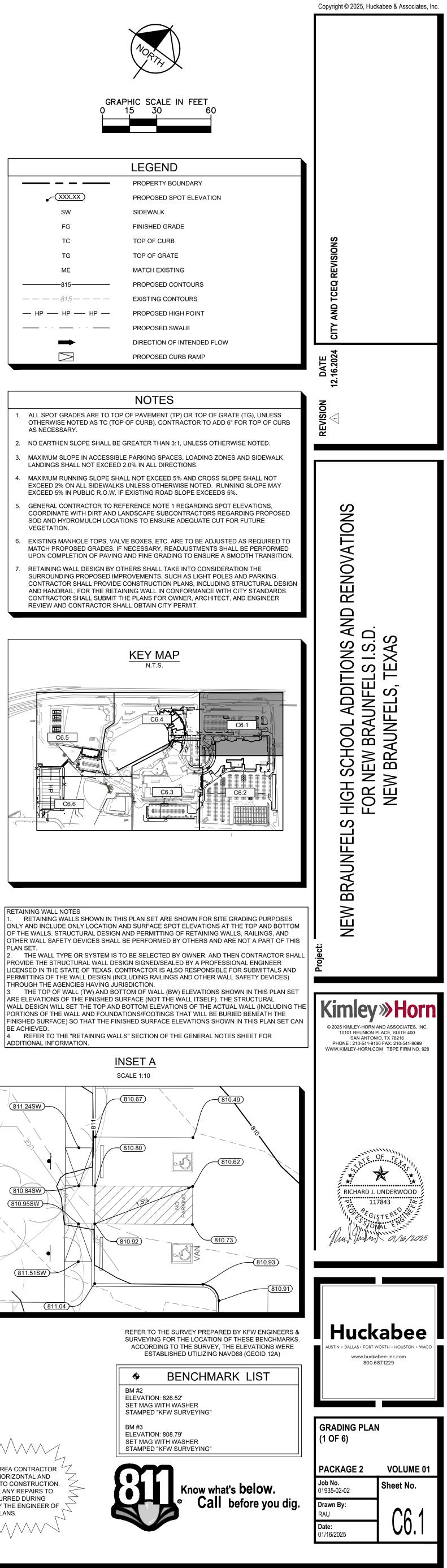


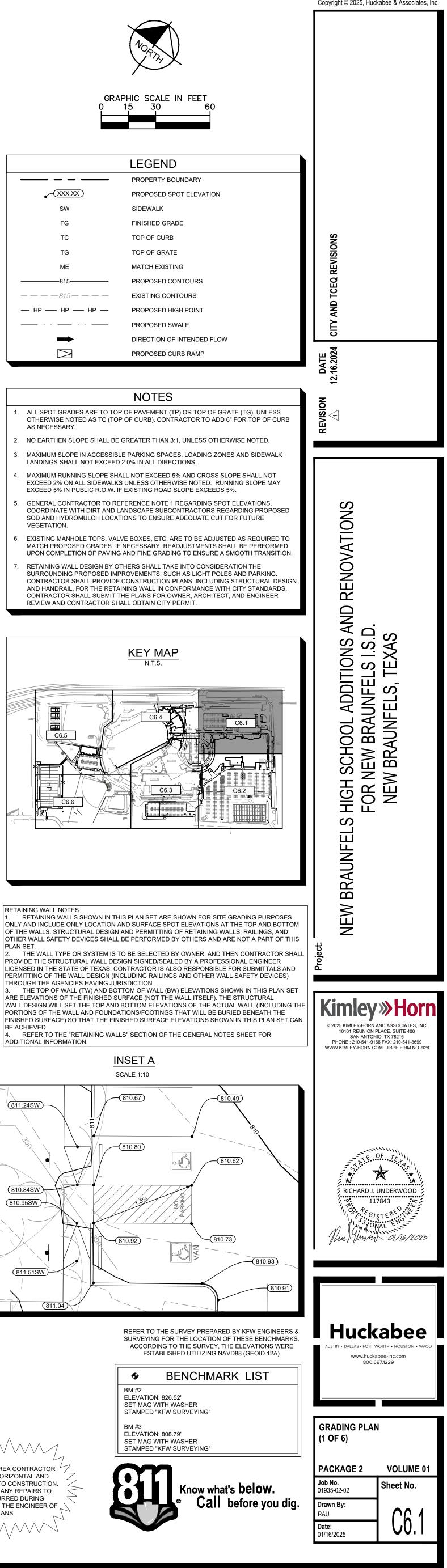
⊕ BM #2 ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" BM #3

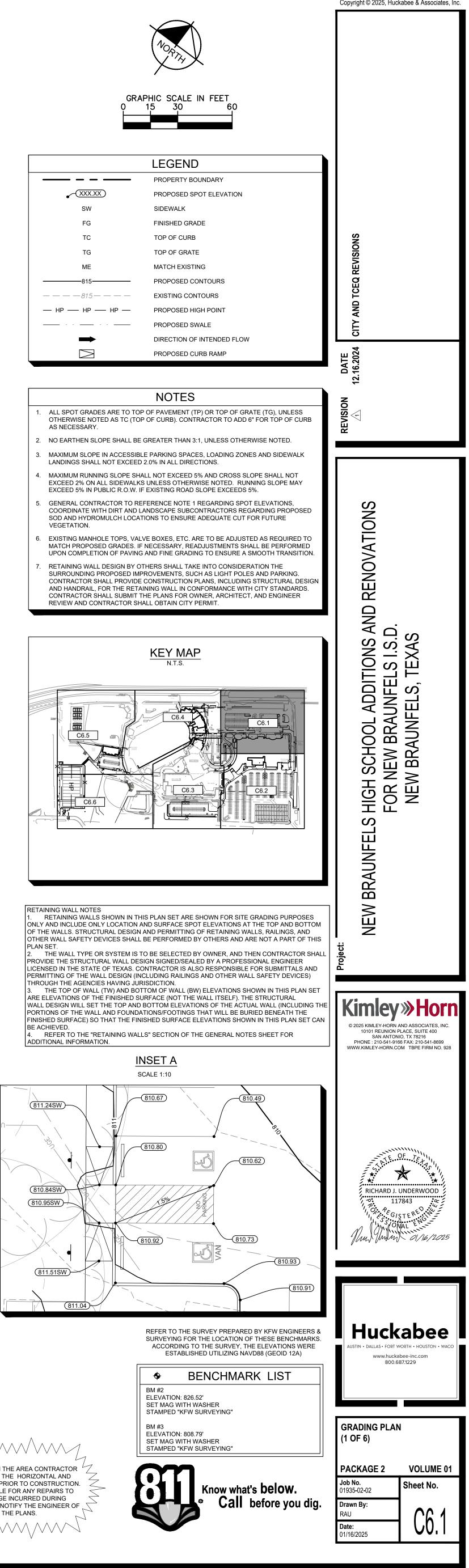


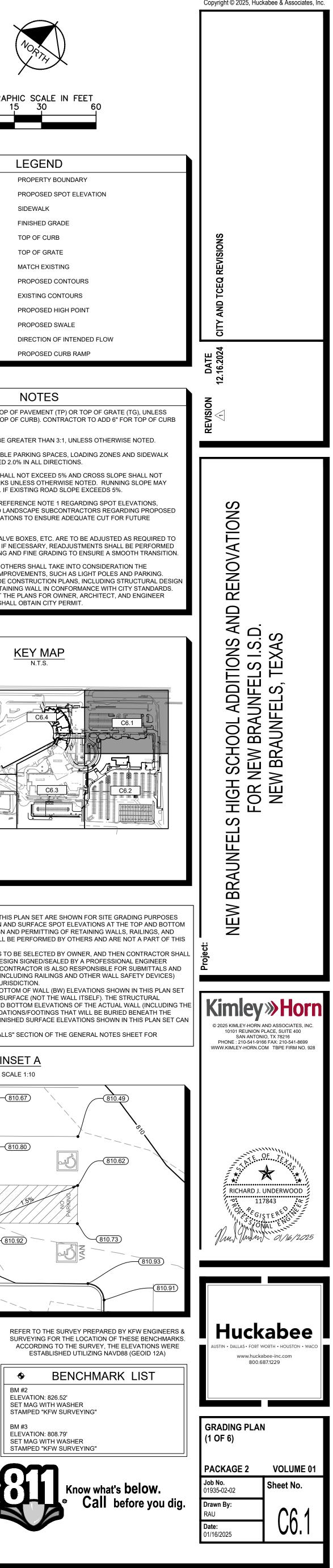




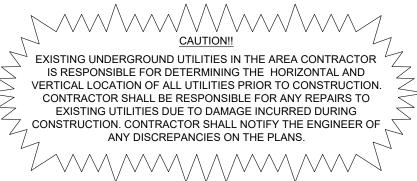


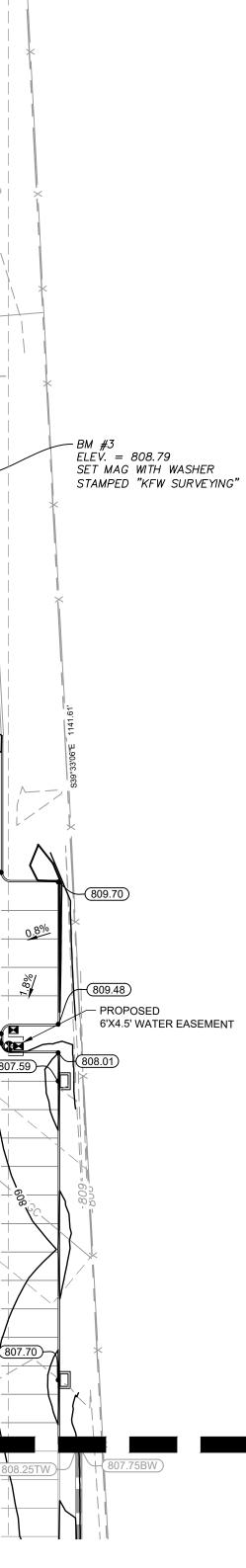


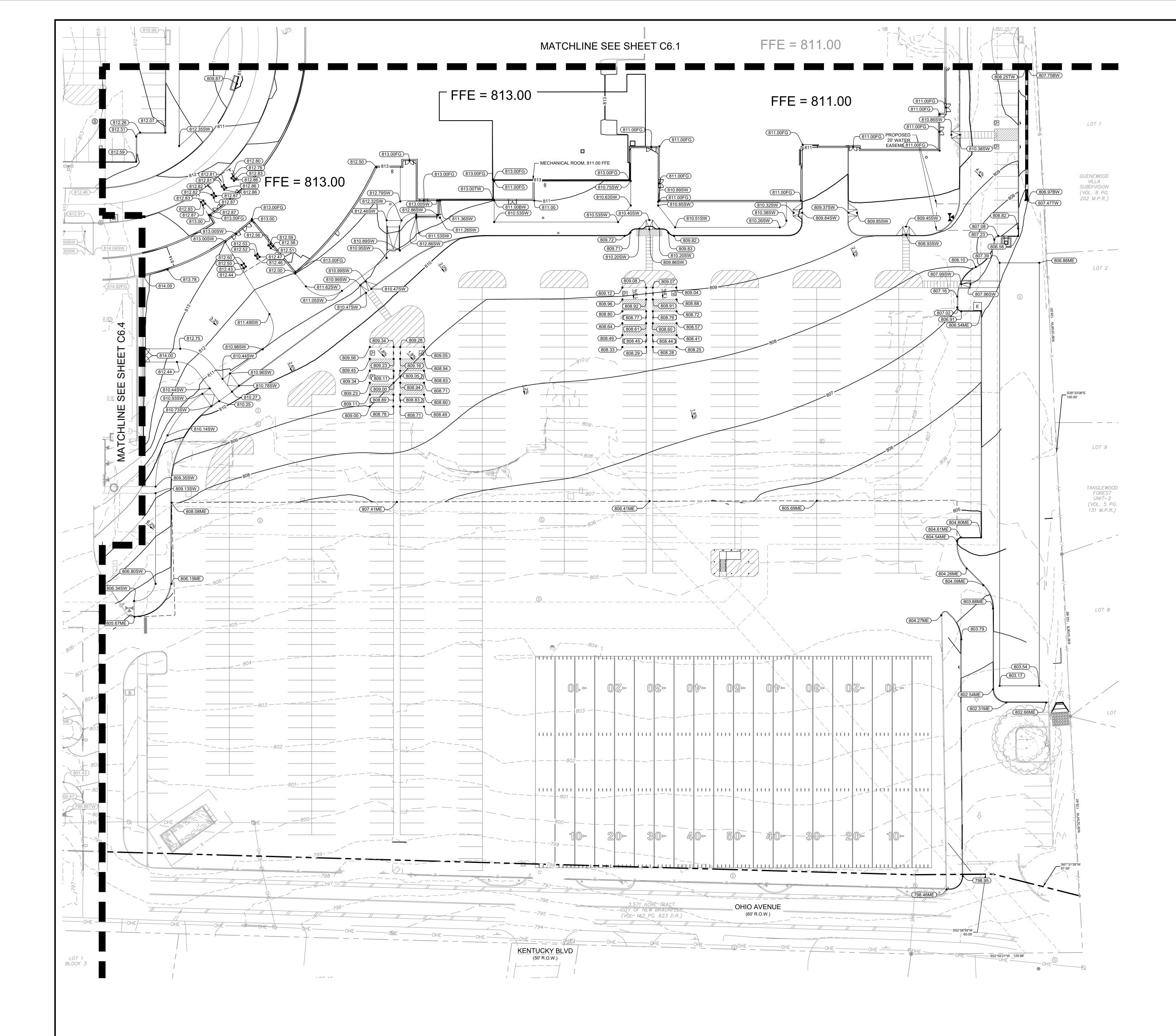


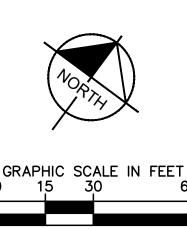




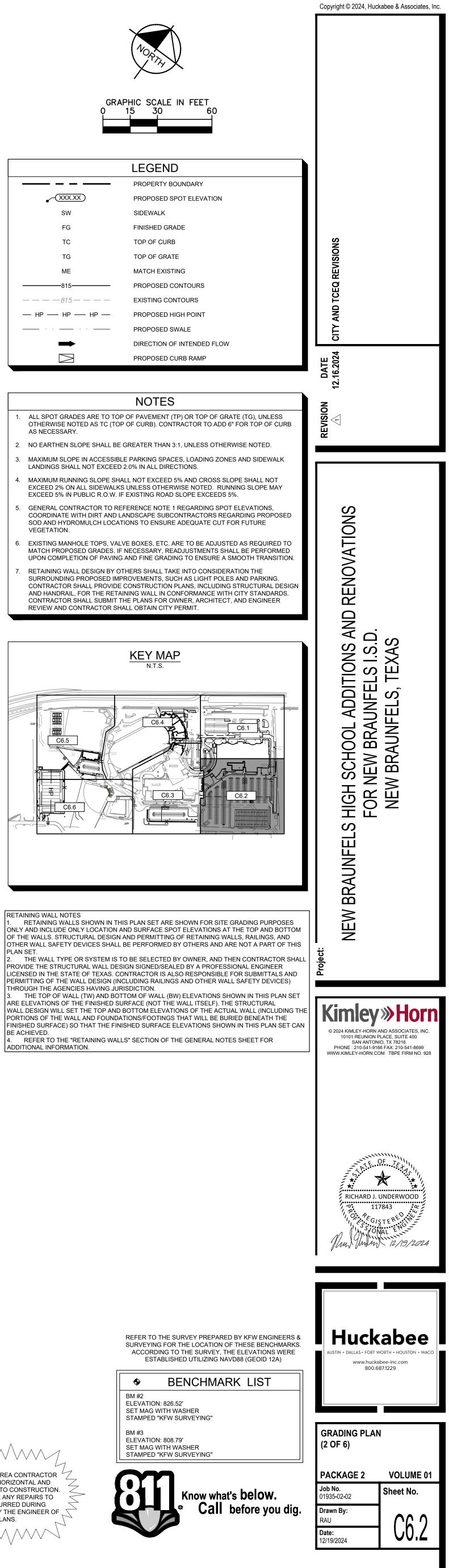


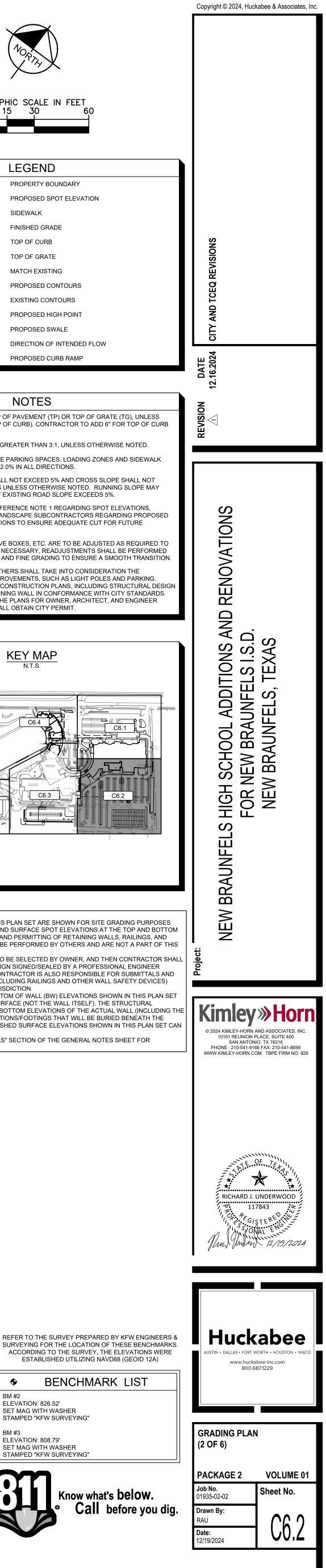


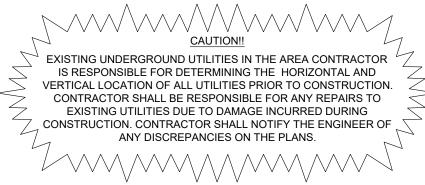


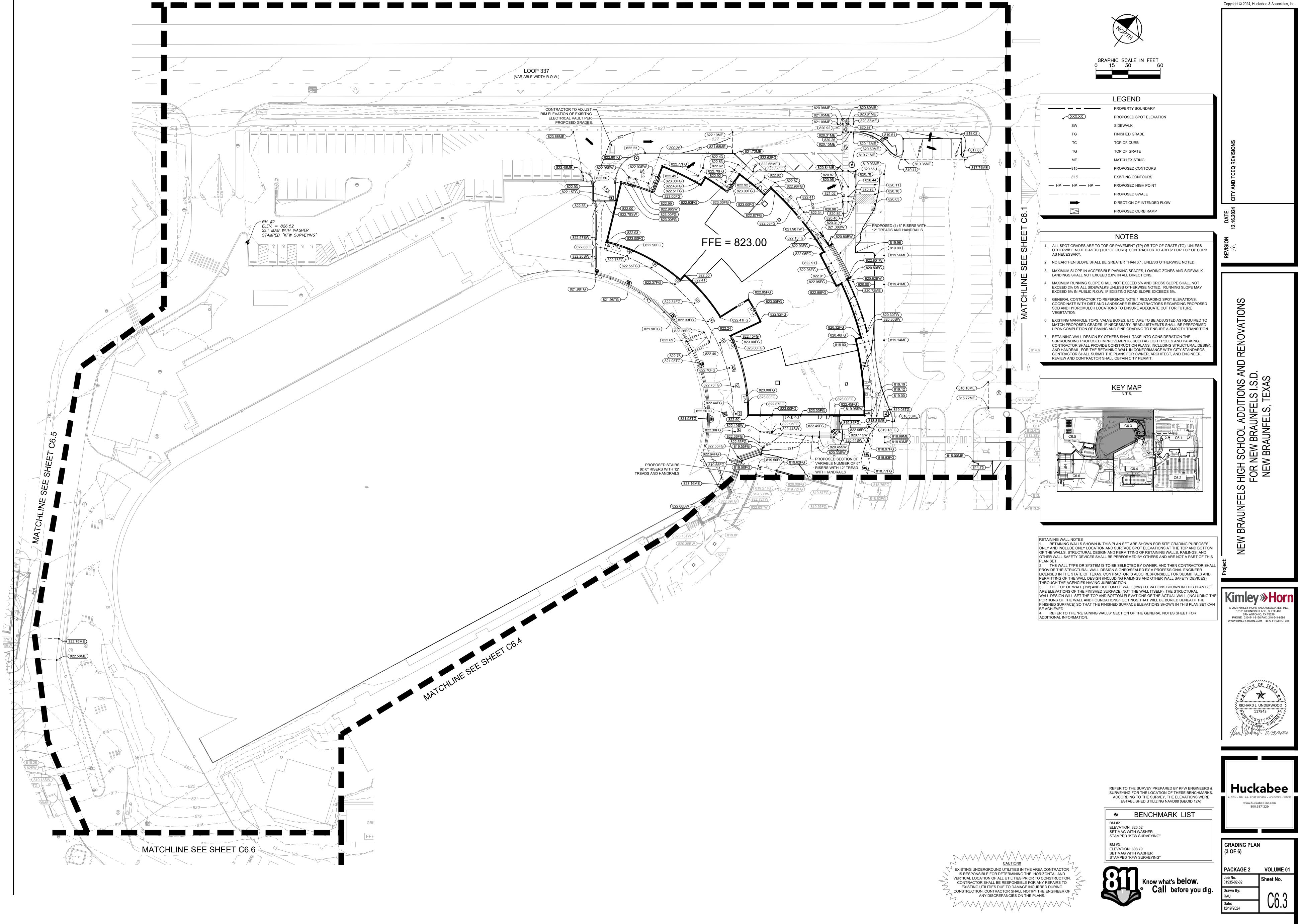


	LEGEND
	PROPERTY BOUNDARY
• XXX.XX	PROPOSED SPOT ELEVATION
SW	SIDEWALK
FG	FINISHED GRADE
тс	TOP OF CURB
TG	TOP OF GRATE
ME	MATCH EXISTING
815	PROPOSED CONTOURS
— — — — 815 — — —	EXISTING CONTOURS
— HP — HP — HP —	PROPOSED HIGH POINT
· · · · · ·	PROPOSED SWALE
	DIRECTION OF INTENDED FLO
	PROPOSED CURB RAMP

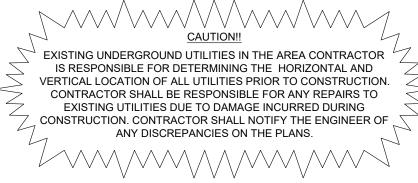


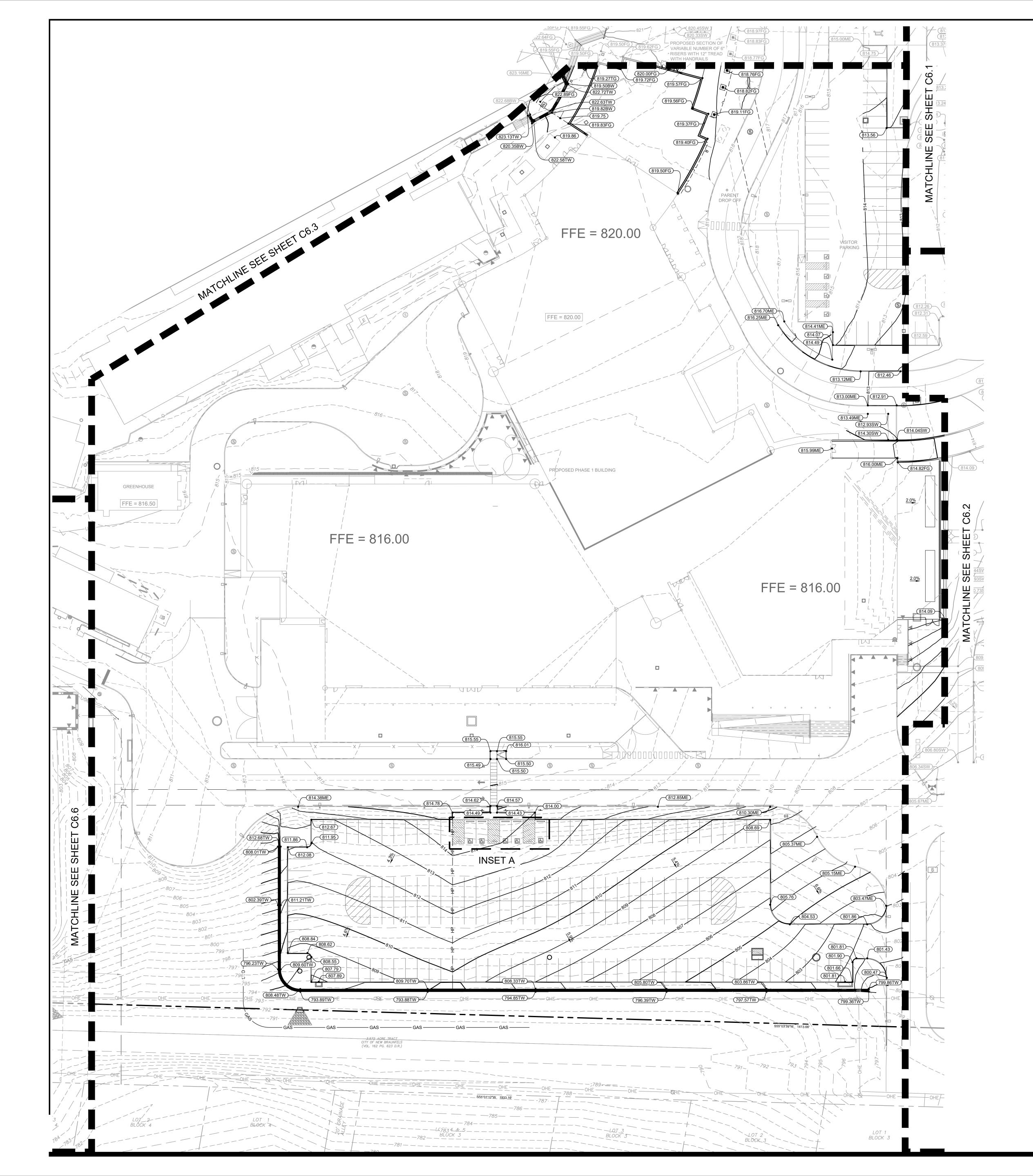


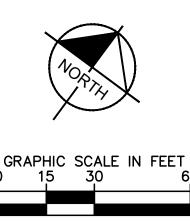






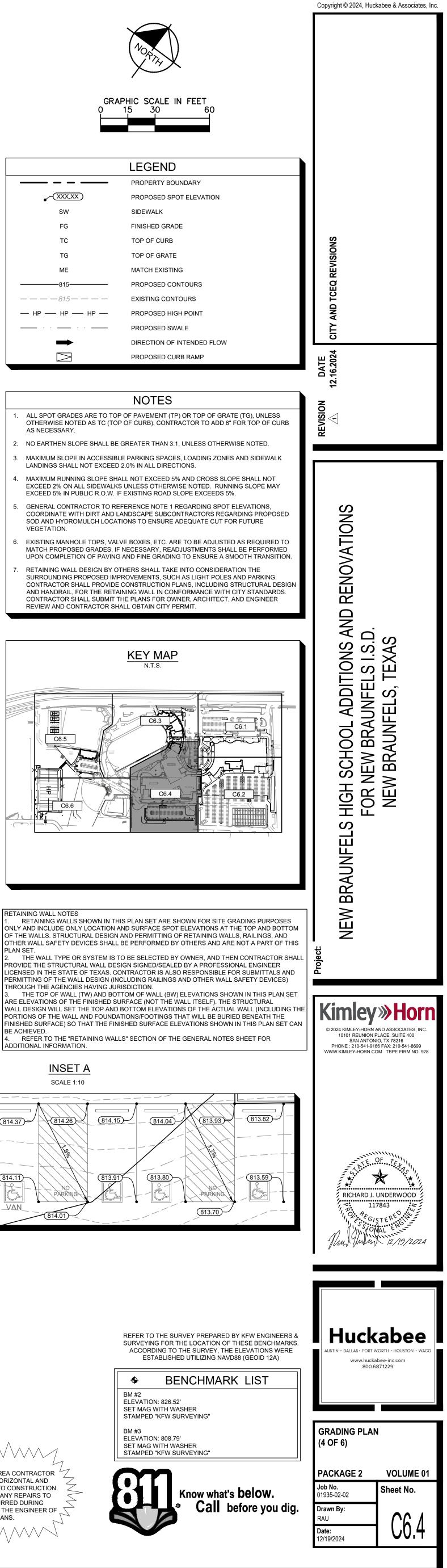


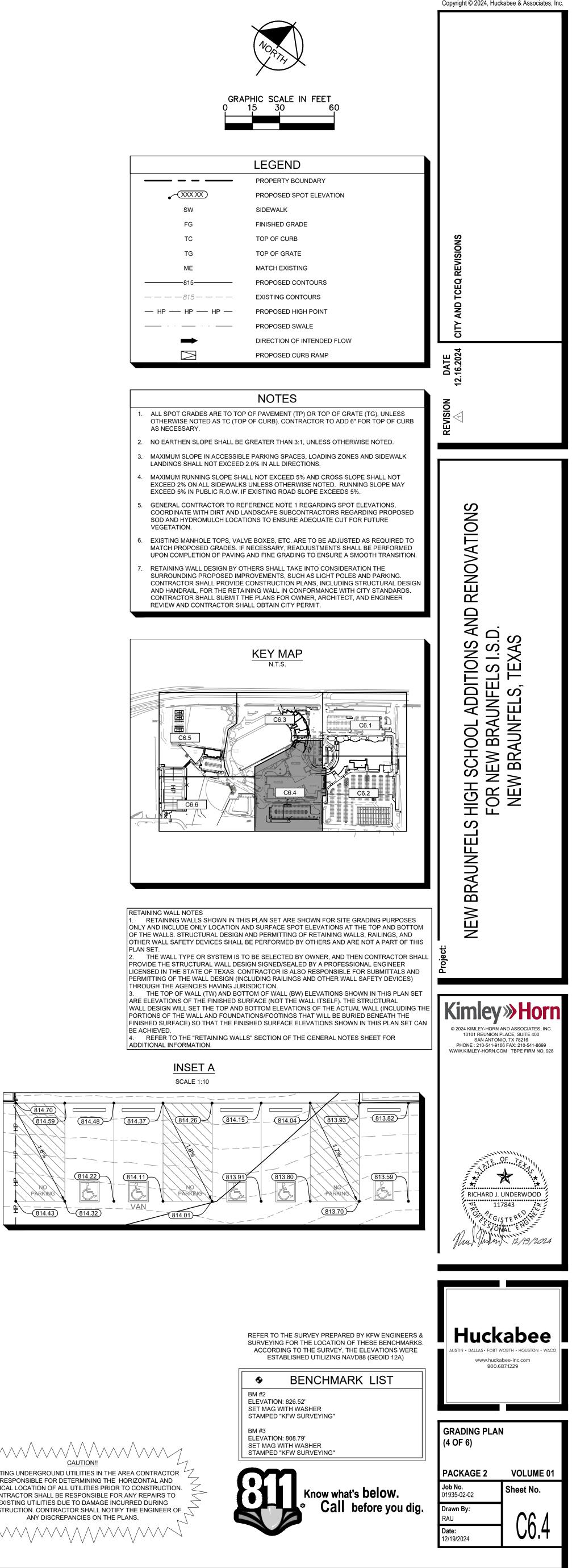




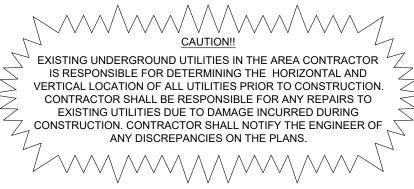
	LEGEND
	PROPERTY BOUNDARY
• XXX.XX	PROPOSED SPOT ELEVATION
SW	SIDEWALK
FG	FINISHED GRADE
тс	TOP OF CURB
TG	TOP OF GRATE
ME	MATCH EXISTING
	PROPOSED CONTOURS
— — — — 815 — — —	EXISTING CONTOURS
— HP — HP — HP —	PROPOSED HIGH POINT
· · · · · ·	PROPOSED SWALE
	DIRECTION OF INTENDED FLO
	PROPOSED CURB RAMP

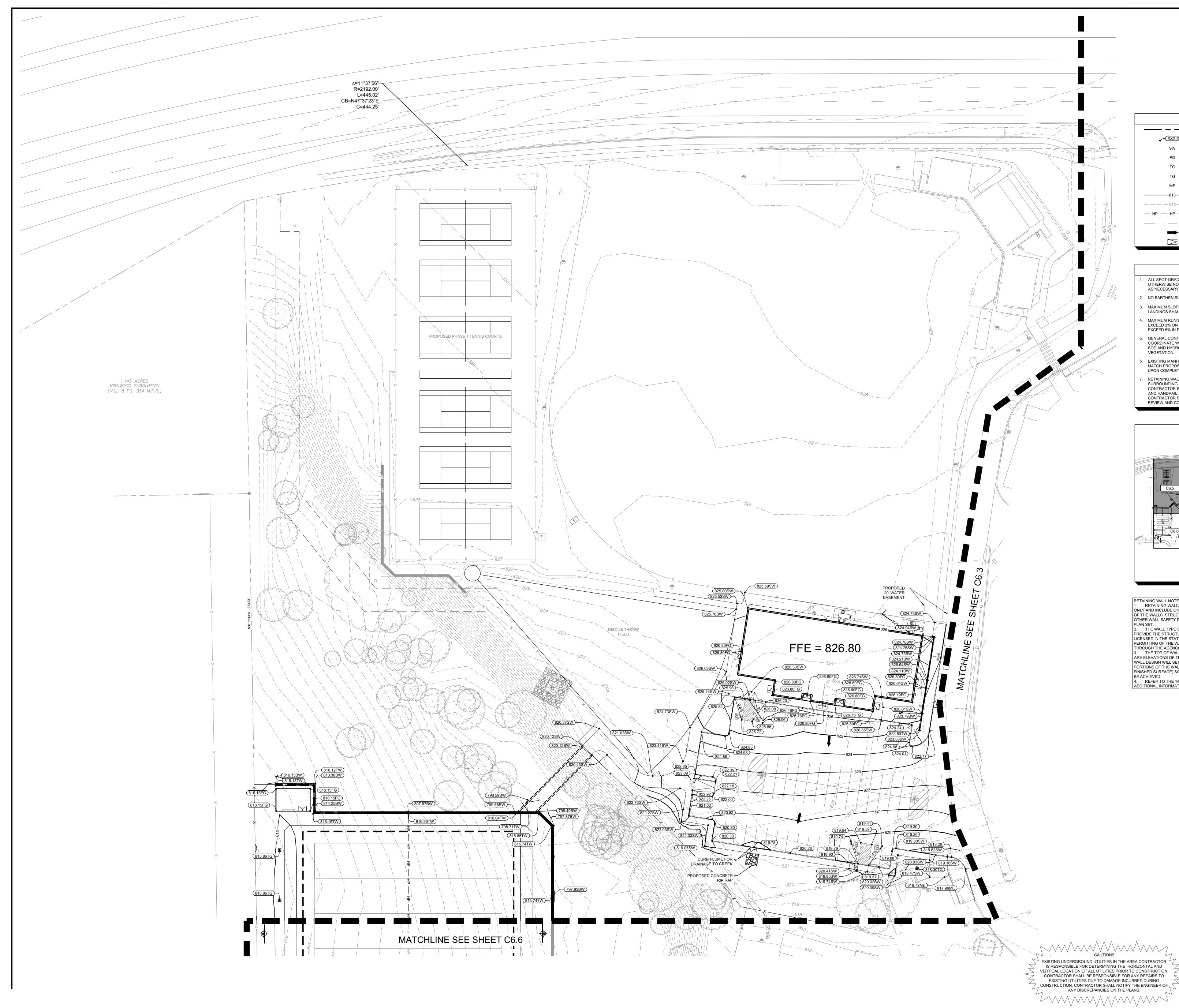
- LANDINGS SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
- VEGETATION.

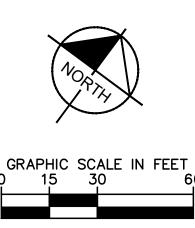


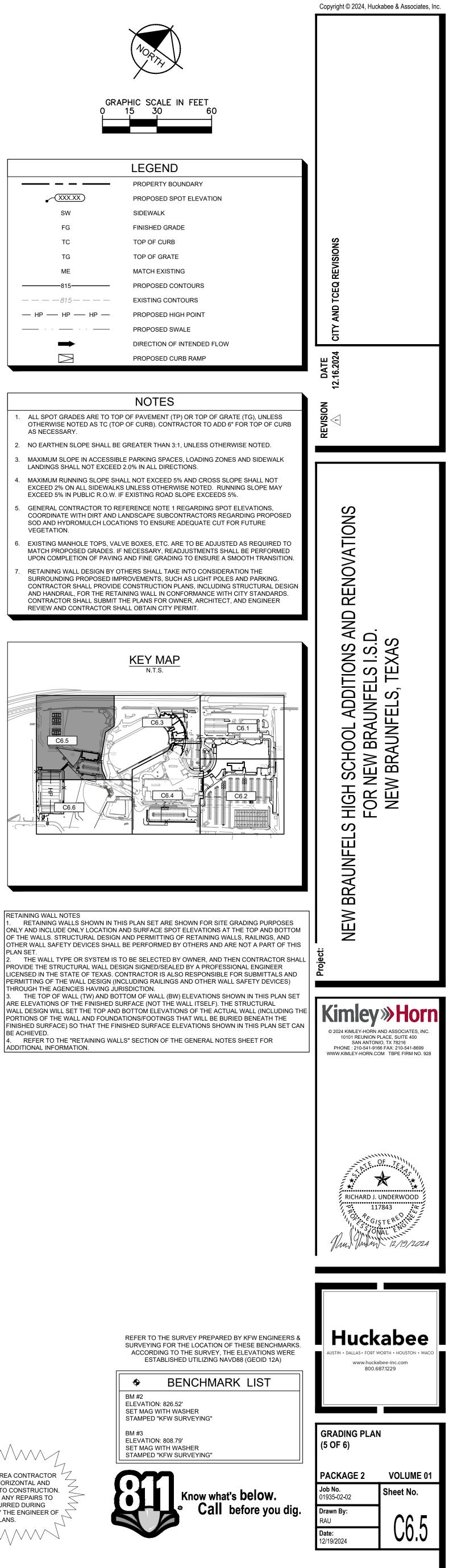


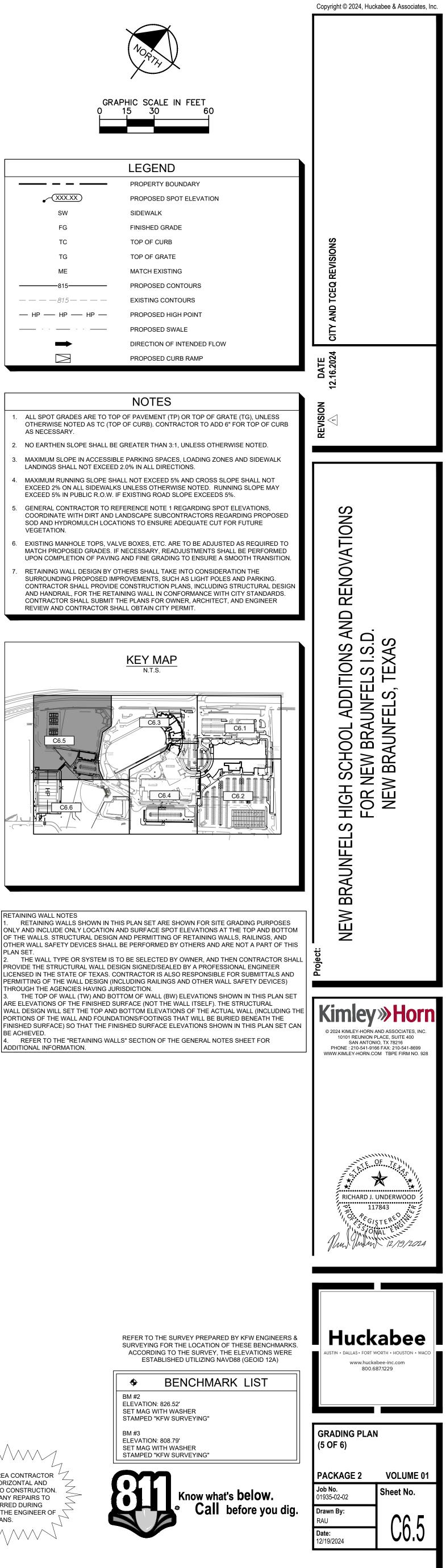


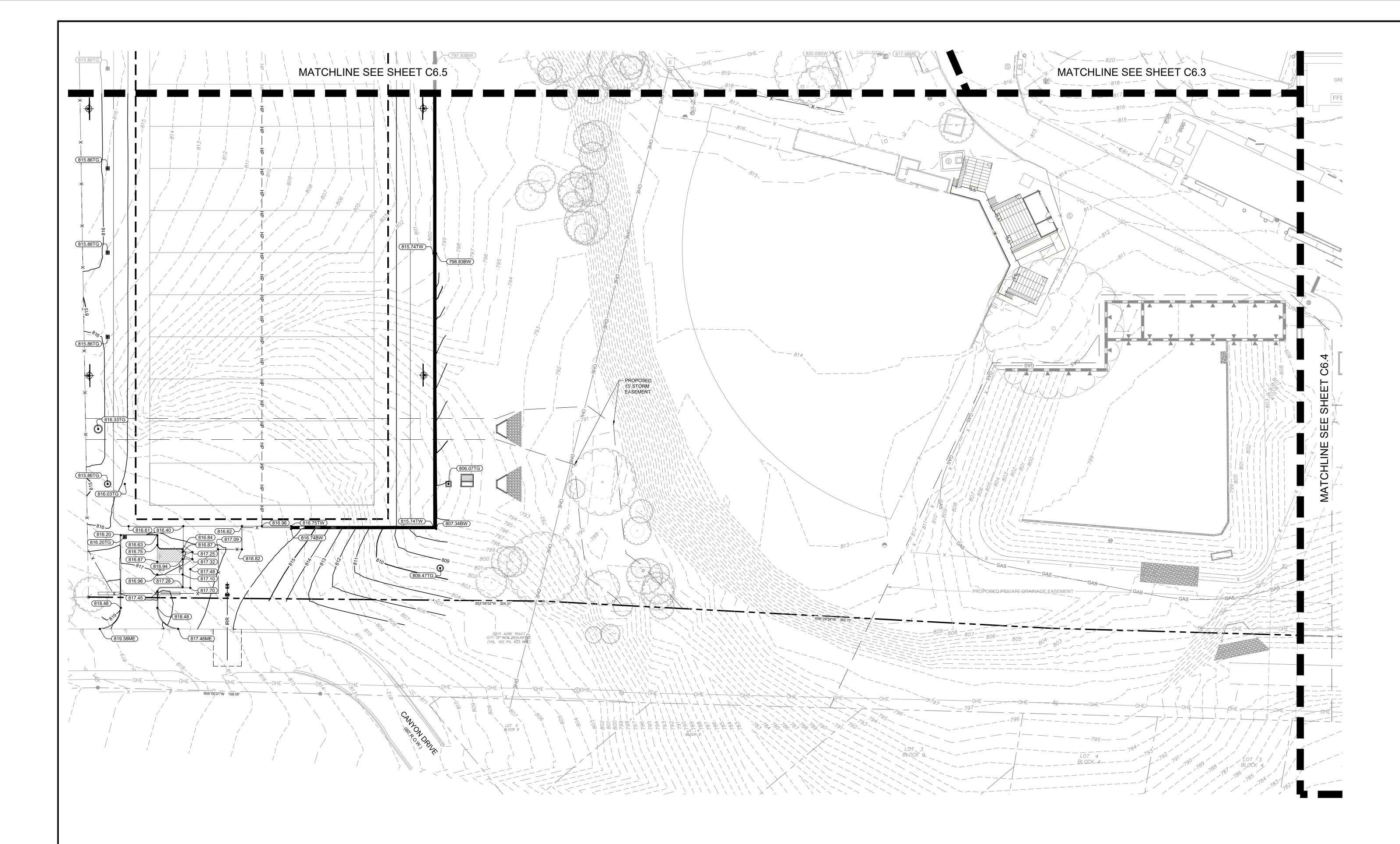


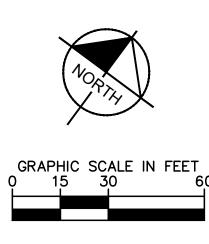




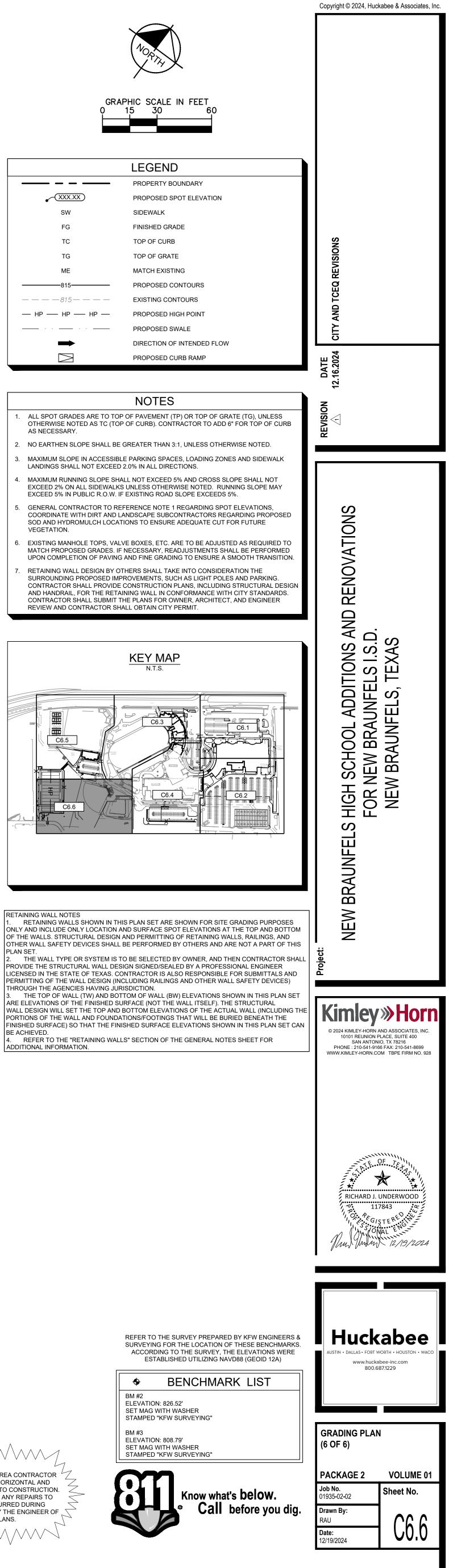


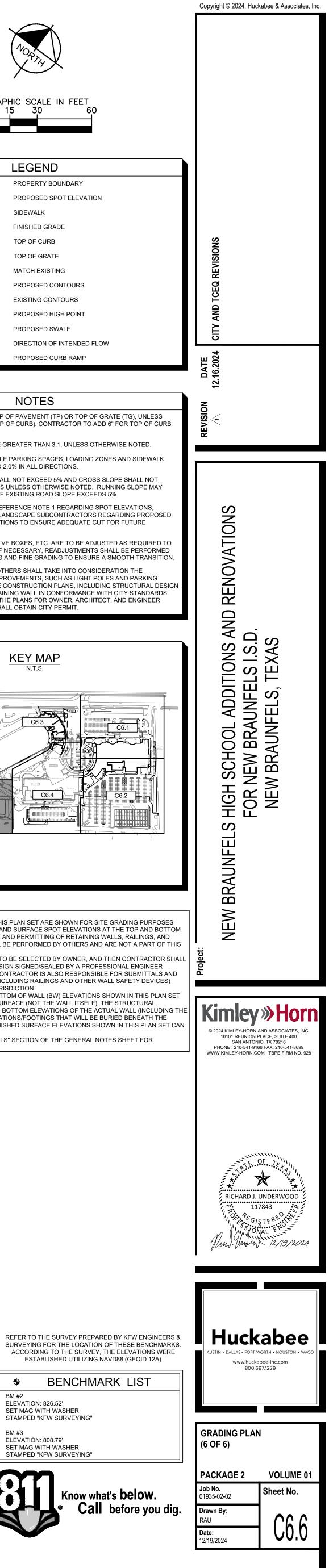




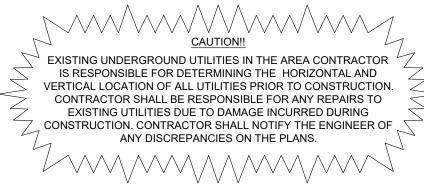


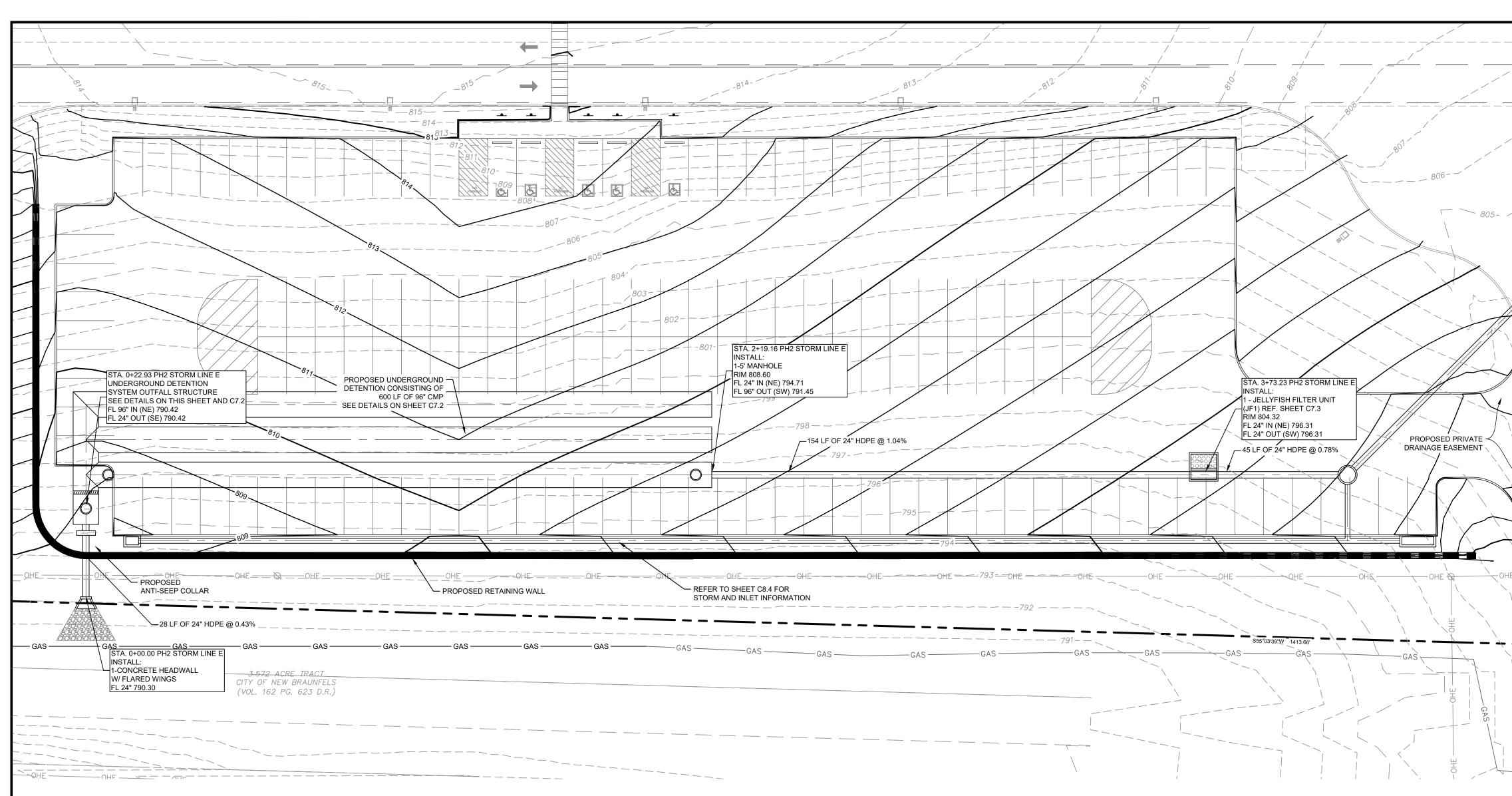
	LEGEND
	PROPERTY BOUNDARY
• XXX.XX	PROPOSED SPOT ELEVATION
SW	SIDEWALK
FG	FINISHED GRADE
тс	TOP OF CURB
TG	TOP OF GRATE
ME	MATCH EXISTING
815	PROPOSED CONTOURS
— — — — 815 — — —	EXISTING CONTOURS
— HP — HP — HP —	PROPOSED HIGH POINT
· · · · ·	PROPOSED SWALE
	DIRECTION OF INTENDED FLO
	PROPOSED CURB RAMP

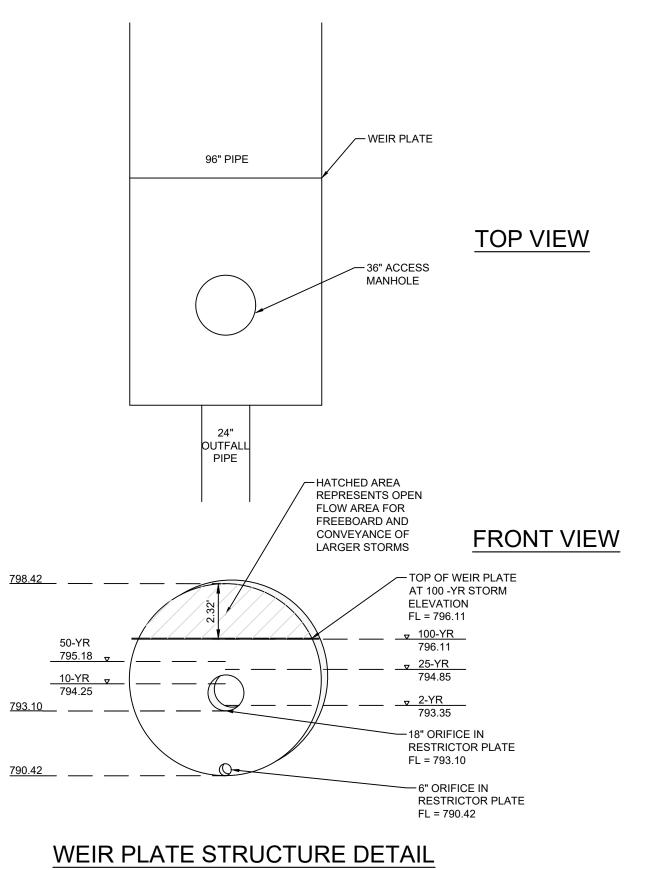




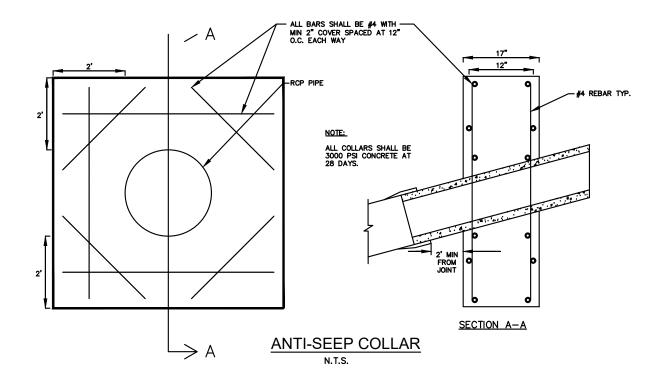








(N.T.S.)



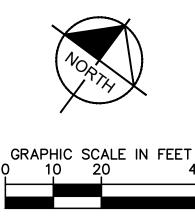
NEW BRAUNFELS HIGH SCHOOL MAINTENANCE SCHEDULE												
Maintenance Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Non-Structural Controls												
Litter Control	Х	Х	X	Х	Х	X	Х	Х	X	Х	Х	X
Landscape Management	Х				Х				X			
Detention Pond			X	Х	Х	Х						
Mow or Weed-Eat Banks										X		
INSPECTION	Х	Х	X	Х	Х	Х	Х	Х	X	Х	Х	X
	"X" Ide	entifies the	e months ir	n which the	e activity w	ill be perf	ormed (at	a minimun	n)			



POND INFORMATION									
STORM EVENT	ELEVATION	FLOW	STORAGE VOLUME						
YEAR	(FT.)	(cfs)	(FT3)						
2	793.35	1.82	10,924						
10	794.25	6.84	16,019						
25	794.85	10.13	19,569						
50	795.18	11.48	21,496						
100	796.11	14.70	26,865						
Top of Pipe	798.42	N/A	40,739						

NOTE: ADDITIONAL STORAGE ABOVE 100 YR STORM ELEVATION IS INTENDED TO SATISFY CITY FREEBOARD REQUIREMENTS

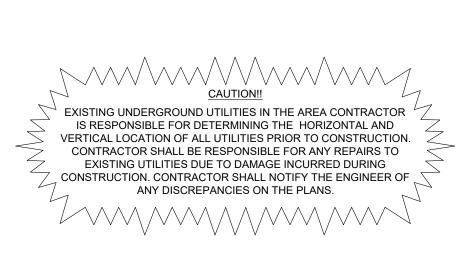
POND STAGE STORAGE TABLE												
STAGE	AREA	INC. VOL	CUM. VOL									
ELEVATION, FT.)	(SQ. FT.)	(CU. FT.)	(CU. FT.)									
790.42	N/A		-									
791.32	N/A	1,318	1,318									
792.22	N/A	3,685	5,003									
793.12	N/A	<mark>4,61</mark> 9	9,622									
794.02	N/A	5,069	14,691									
794.92	N/A	5,277	19,968									
795.82	N/A	5,277	25,245									
796.72	N/A	5,072	30,317									
797.62	N/A	4,614	34,931									
798.52	N/A	3,717	38,648									
799.42	N/A	2,090	40,738									

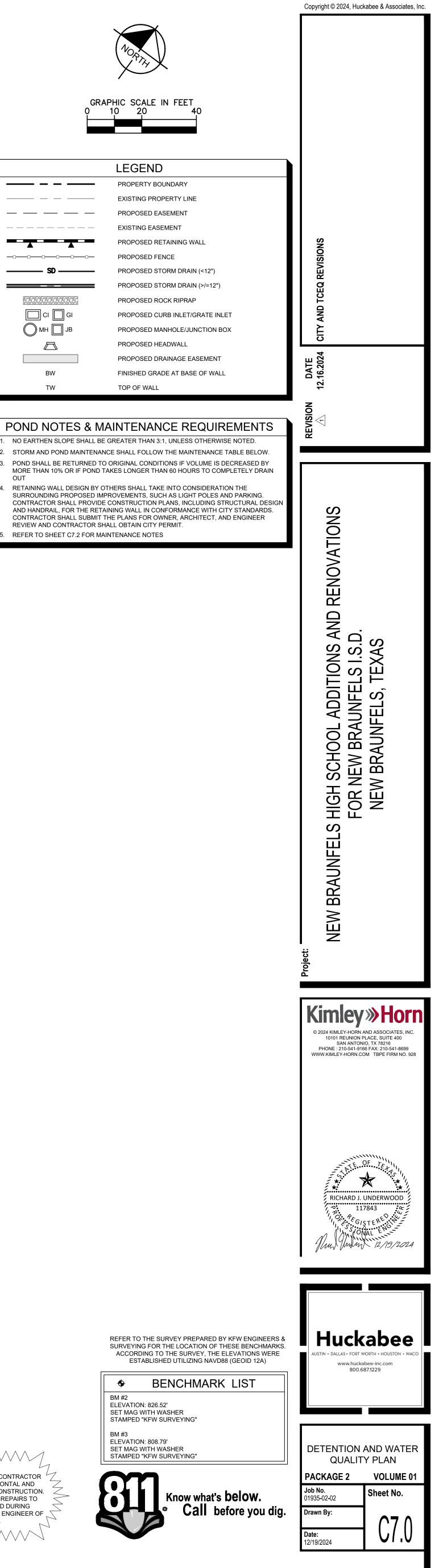


	LEGEND
	PROPERTY BOUNDARY
	EXISTING PROPERTY LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED RETAINING WALL
-0-0-0-0-0-0-0-0-	PROPOSED FENCE
SD	PROPOSED STORM DRAIN (<12
	PROPOSED STORM DRAIN (>/=1
5 <u>505555555555</u>	PROPOSED ROCK RIPRAP
CI 🔲 GI	PROPOSED CURB INLET/GRATE
МН ЈЈВ	PROPOSED MANHOLE/JUNCTIC
	PROPOSED HEADWALL
	PROPOSED DRAINAGE EASEME
BW	FINISHED GRADE AT BASE OF V
тw	TOP OF WALL

POND NOTES & MAINTENANCE REQUIREMENTS

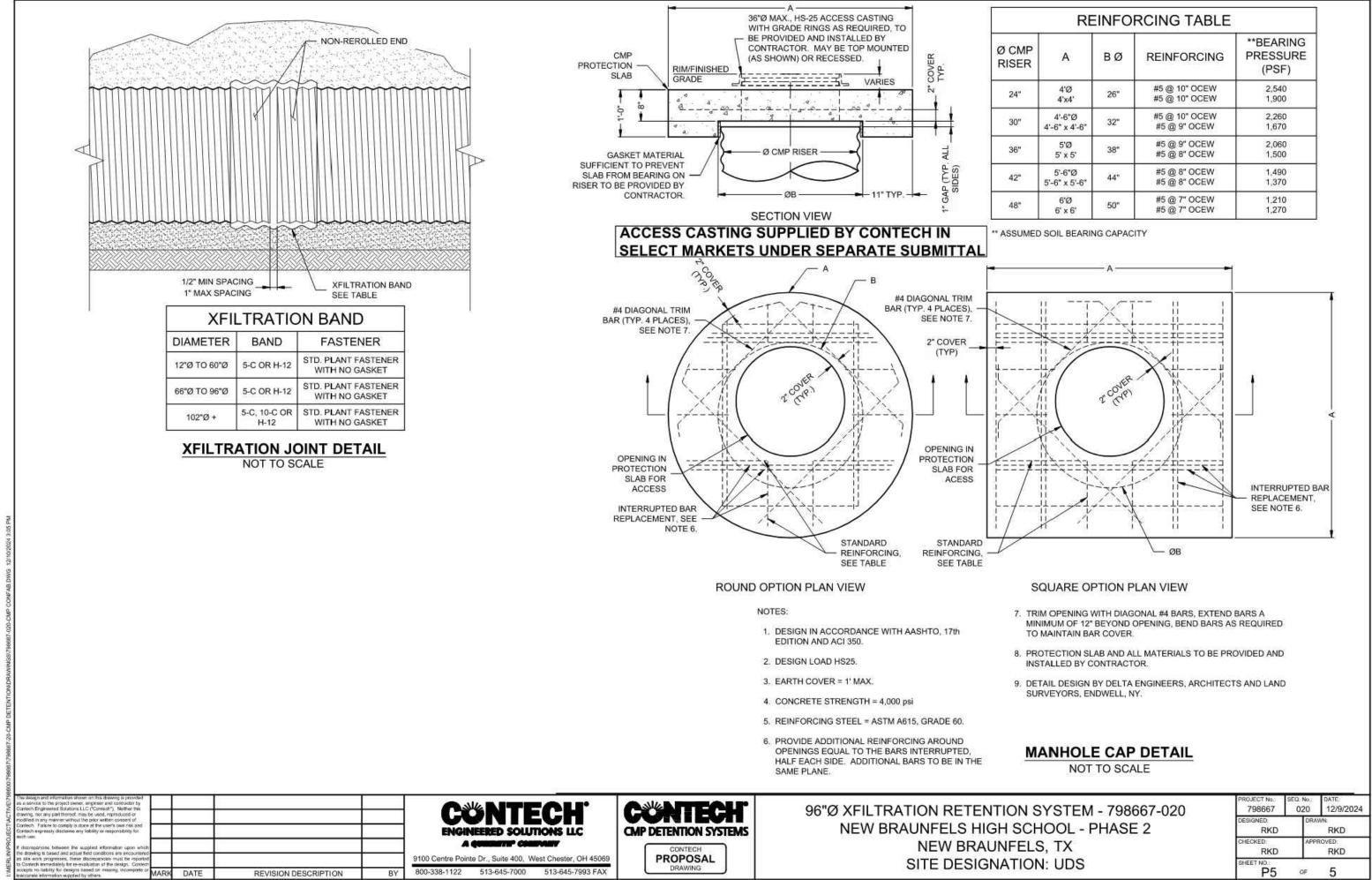
- 2. STORM AND POND MAINTENANCE SHALL FOLLOW THE MAINTENANCE TABLE BELOW. 3. POND SHALL BE RETURNED TO ORIGINAL CONDITIONS IF VOLUME IS DECREASED BY
- OUT RETAINING WALL DESIGN BY OTHERS SHALL TAKE INTO CONSIDERATION THE
- SURROUNDING PROPOSED IMPROVEMENTS, SUCH AS LIGHT POLES AND PARKING. CONTRACTOR SHALL PROVIDE CONSTRUCTION PLANS, INCLUDING STRUCTURAL DESIGN AND HANDRAIL, FOR THE RETAINING WALL IN CONFORMANCE WITH CITY STANDARDS.
- REVIEW AND CONTRACTOR SHALL OBTAIN CITY PERMIT. 5. REFER TO SHEET C7.2 FOR MAINTENANCE NOTES

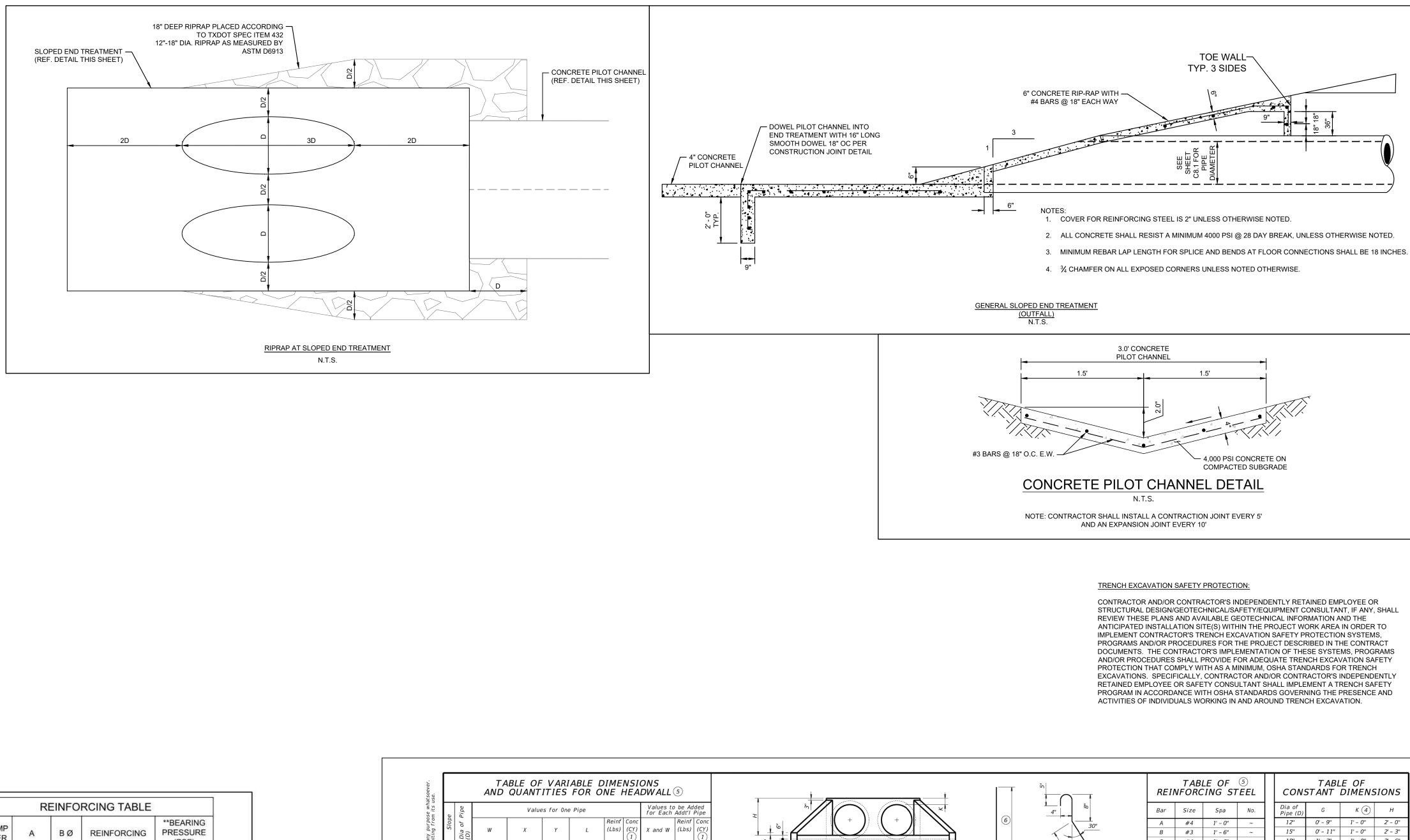


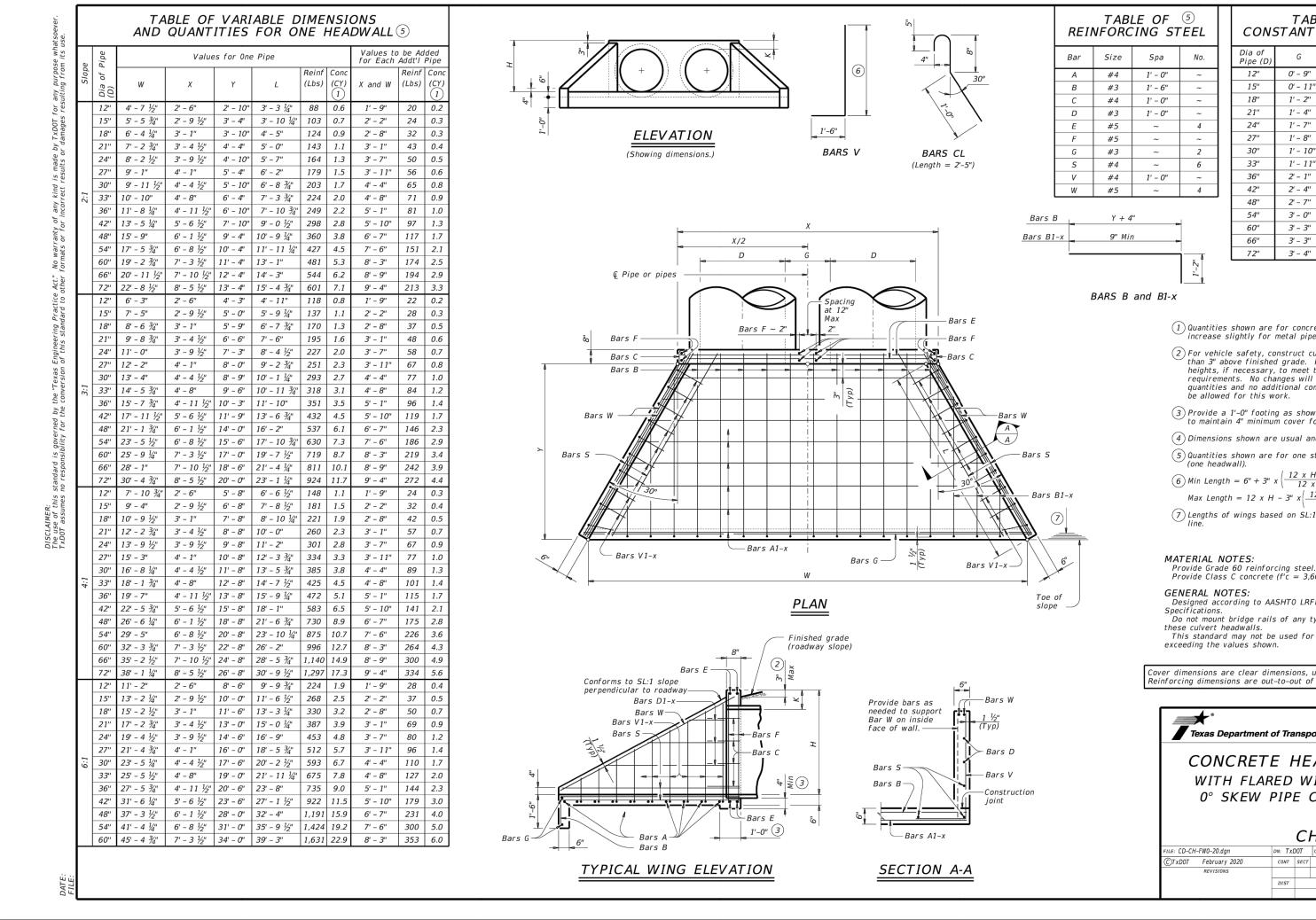


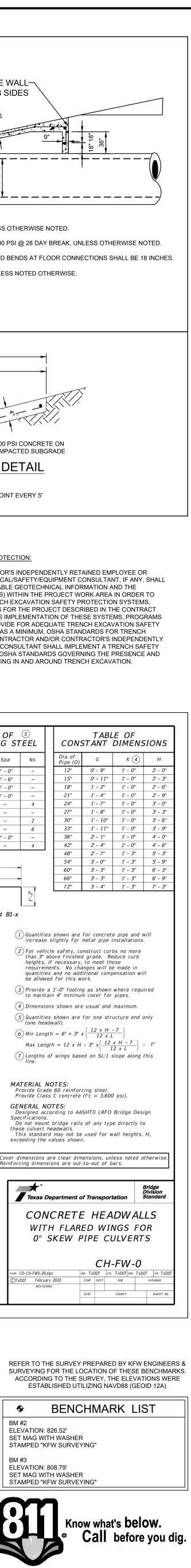
BM #2 ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" BM #3 ELEVATION: 808.79' SET MAG WITH WASHER





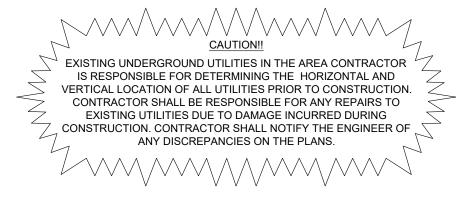




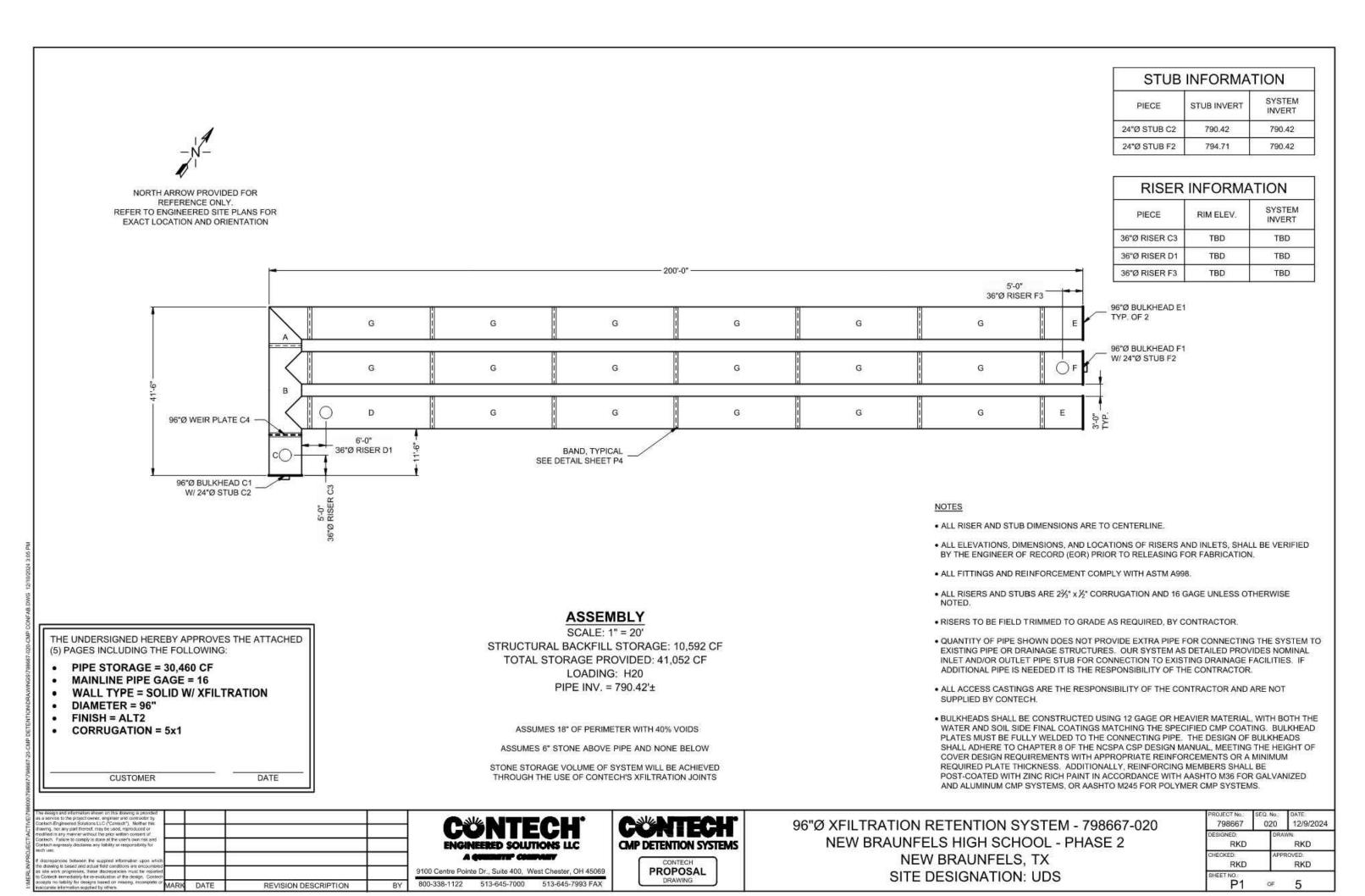


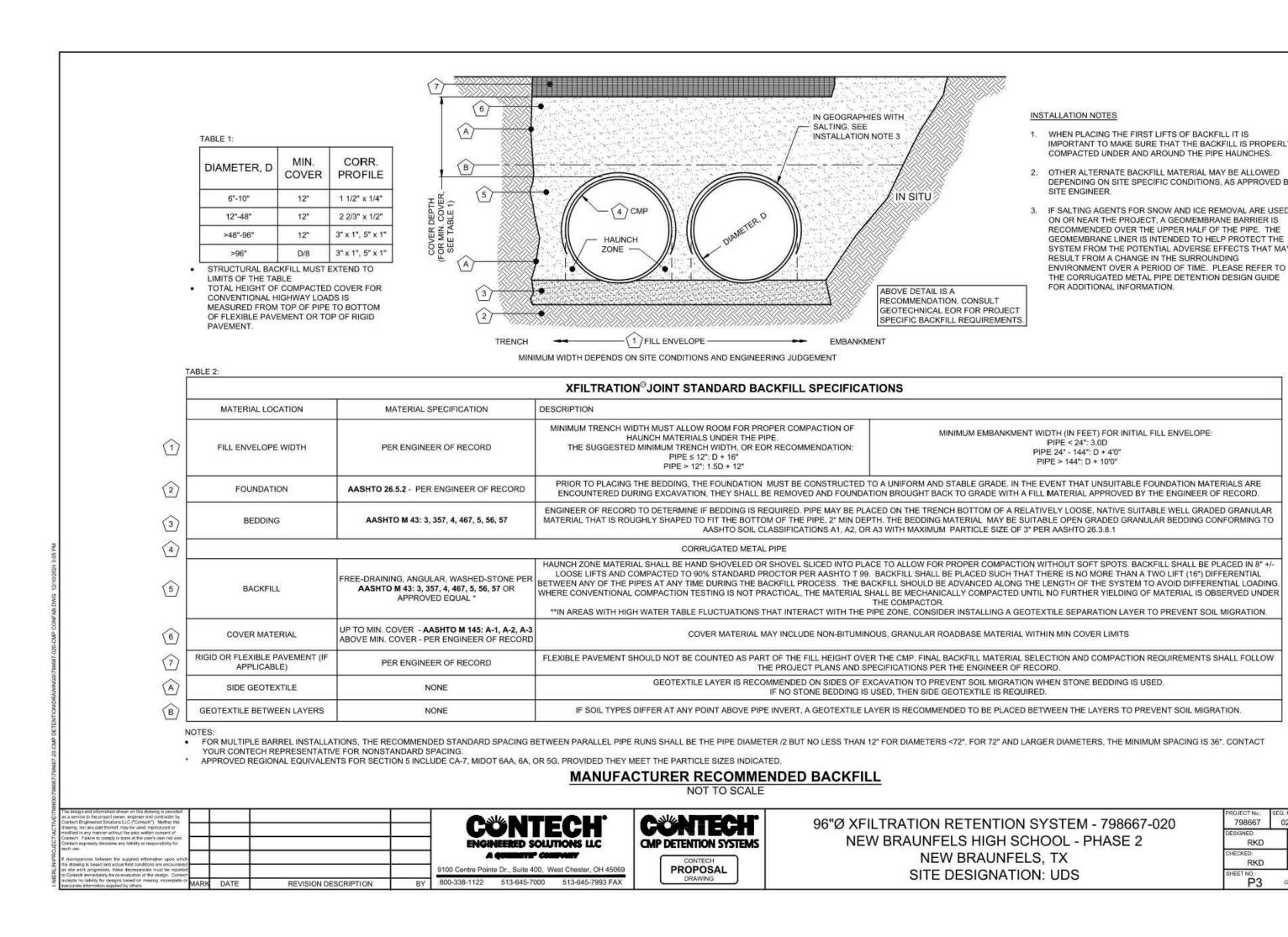
BM #2 ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" BM #3 ELEVATION: 808.79' SET MAG WITH WASHER STAMPED "KFW SURVEYING"











12 GA. STEEL

WEIR PLATE

END VIEW

WEIR PLATE DETAIL

PART C4

NOT TO SCALE

CONNECTION DETAIL

7 1/2" TECHCO SHOWN - MAY VARY

3. BAND MATERIAL AND GAGE TO BE SAME AS RISER MATERIAL.

6. ALL RISER JOINT COMPONENTS WILL BE FIELD ASSEMBLED.

8. DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.

5. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:

12" THRU 48" 1-PIECE

54" 2-PIECES

GENERAL NOTES:

TOP OF WEIR = 796.11'

6"Ø ORIFICE AND SYSTEM INVERT = 790.42'

REVISION DESCRIPTION

- TECHCO BAND ANGLES

TO SCALE

REVISION DESCRIPTION

00 Centre Pointe Dr., Suite 400, West Chester, OH 4506

BV 800-338-1122 513-645-7000 513-645-7993 FA

1/2" DIA. BOLT

1/16

INSTALLATION NOTES

SITE ENGINEER.

MINIMUM EMBANKMENT WIDTH (IN FEET) FOR INITIAL FILL ENVELOPE:

PIPE 24" - 144": D + 4'0"

PIPE > 144": D + 10'0"

NEW BRAUNFELS, TX

SITE DESIGNATION: UDS

PIPE < 24": 3.0D

1. WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS

IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES.

DEPENDING ON SITE SPECIFIC CONDITIONS, AS APPROVED BY

2. OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED

3. IF SALTING AGENTS FOR SNOW AND ICE REMOVAL ARE USED

ON OR NEAR THE PROJECT, A GEOMEMBRANE BARRIER IS

RECOMMENDED OVER THE UPPER HALF OF THE PIPE. THE

GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE

ENVIRONMENT OVER A PERIOD OF TIME. PLEASE REFER TO

THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE

798667 020 12/9/2024

P3 of 5

RKD

RKD

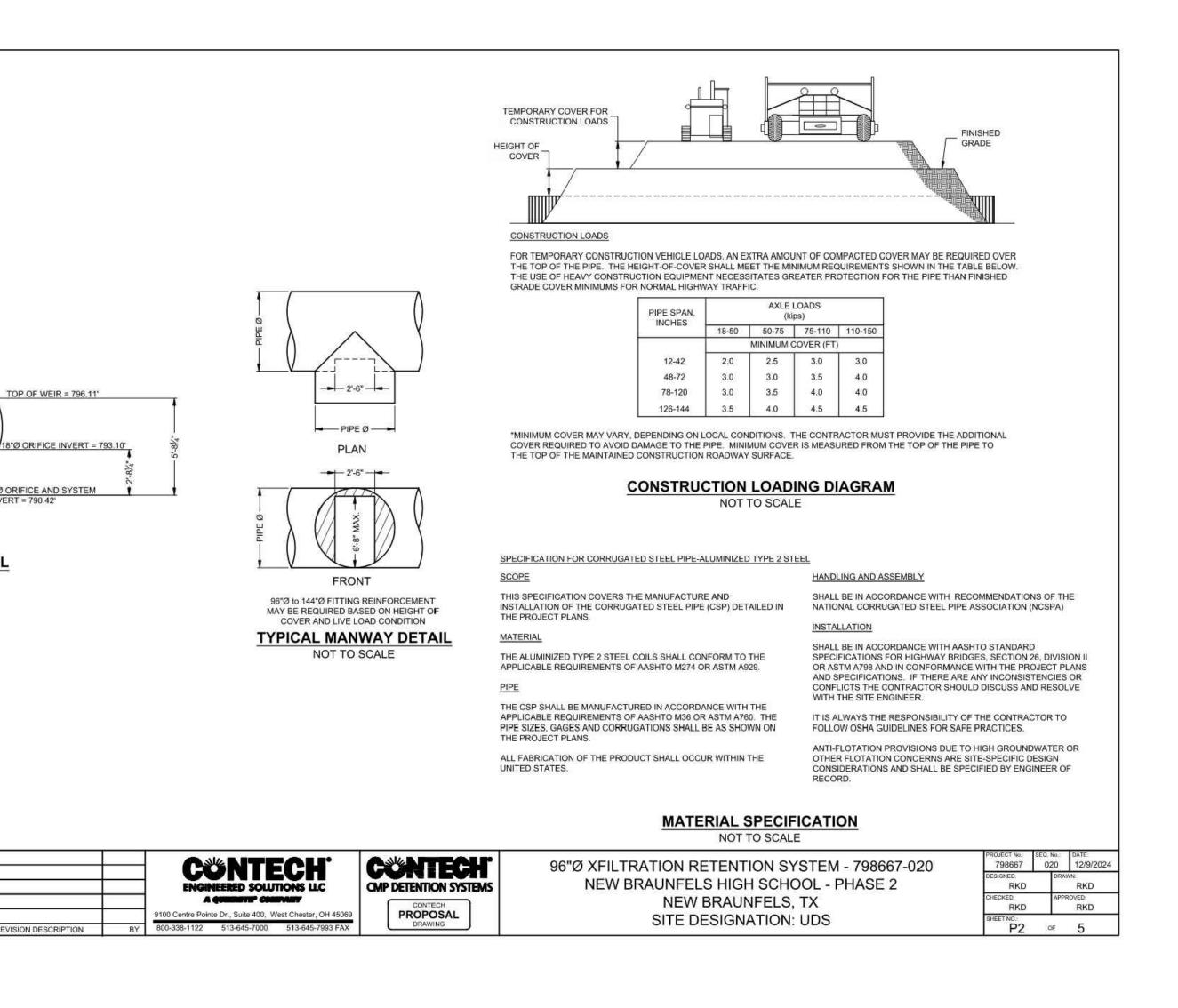
RKD

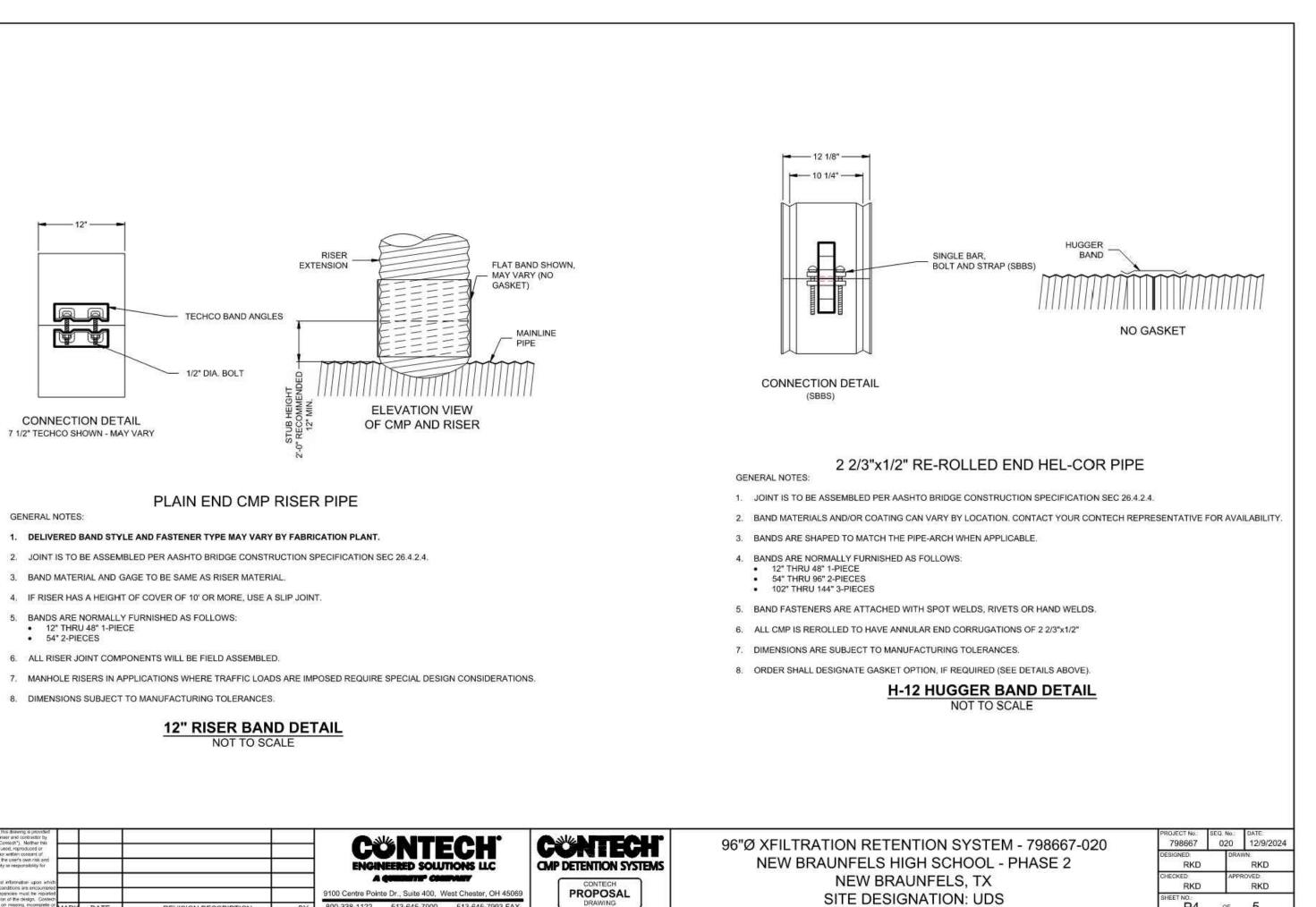
RKD

RESULT FROM A CHANGE IN THE SURROUNDING

FOR ADDITIONAL INFORMATION.

SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY

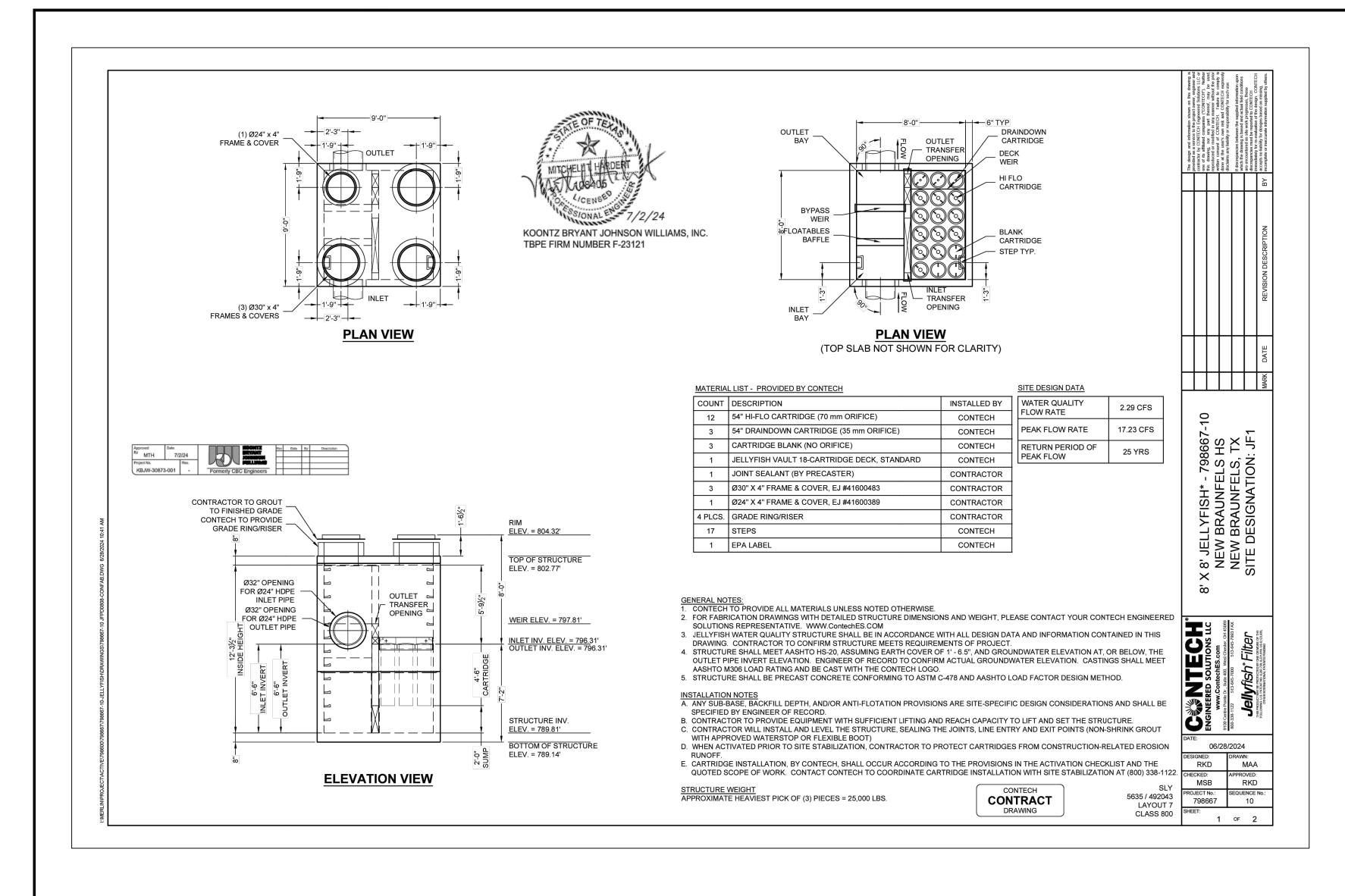


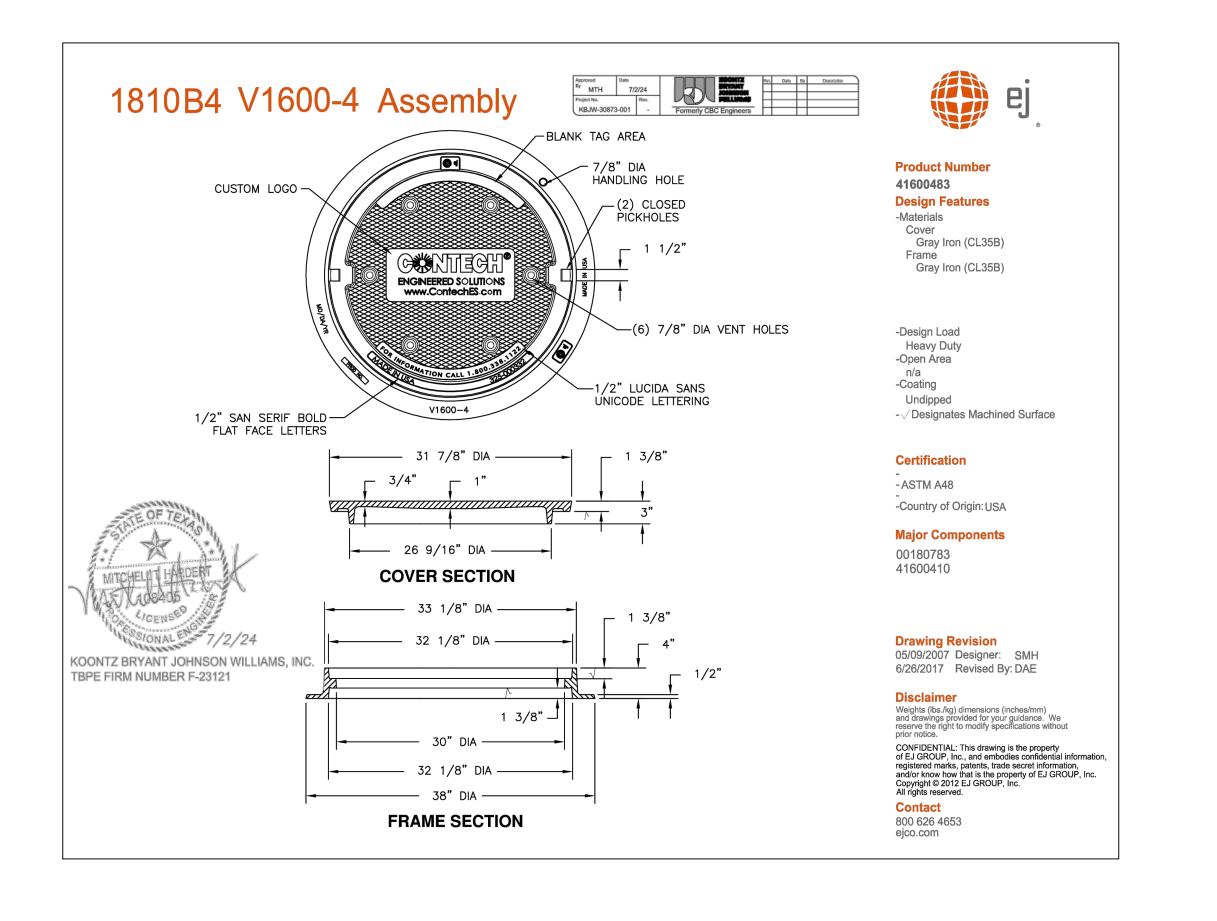


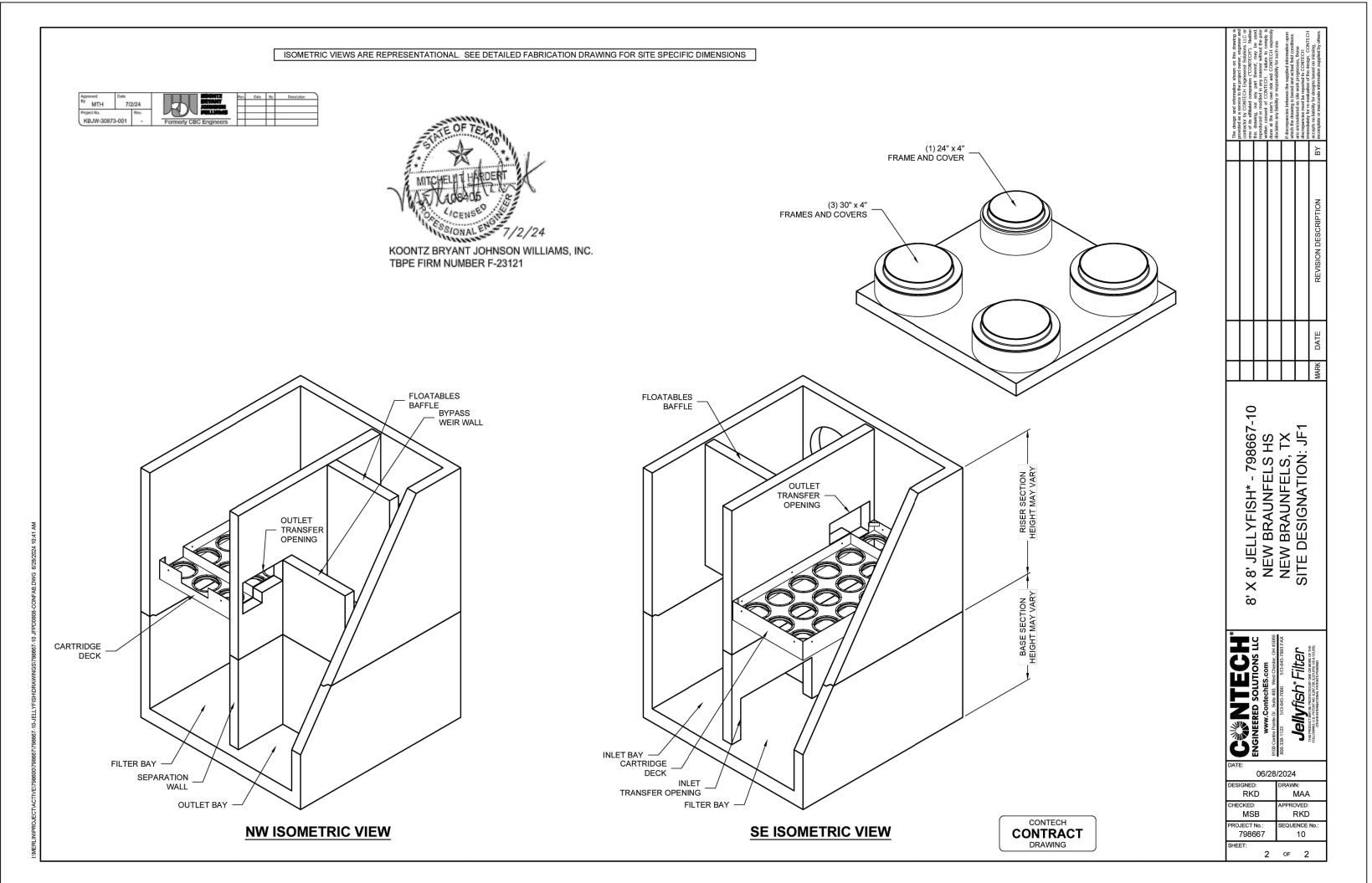
SITE DESIGNATION: UDS

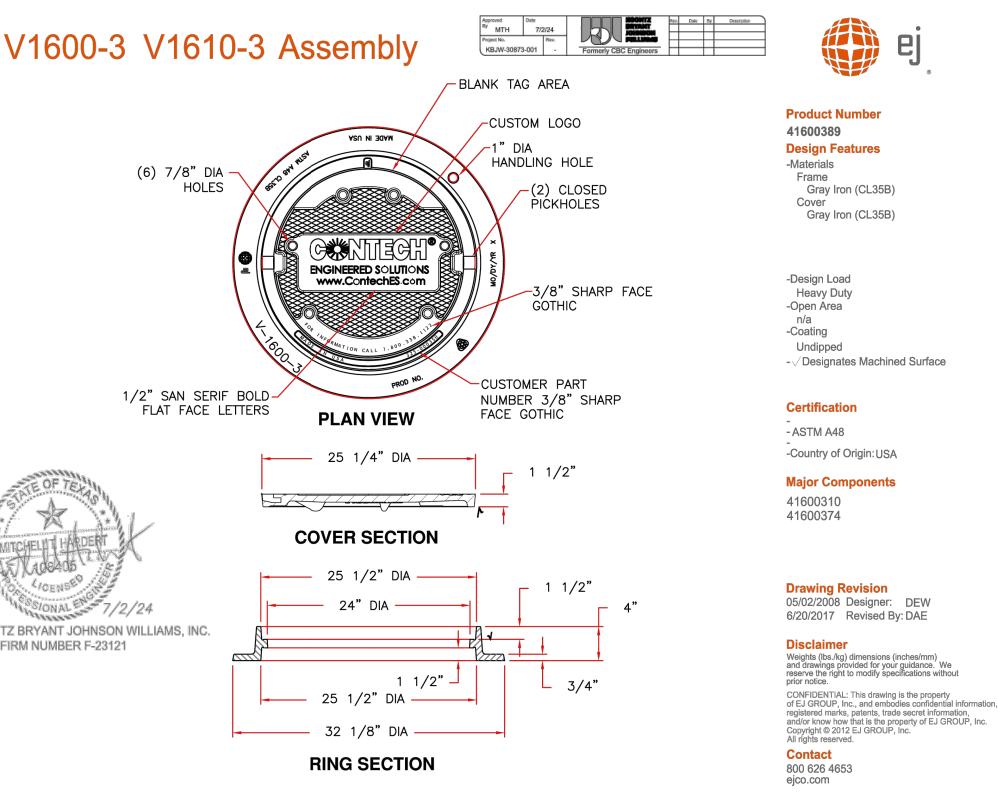
P4 or 5

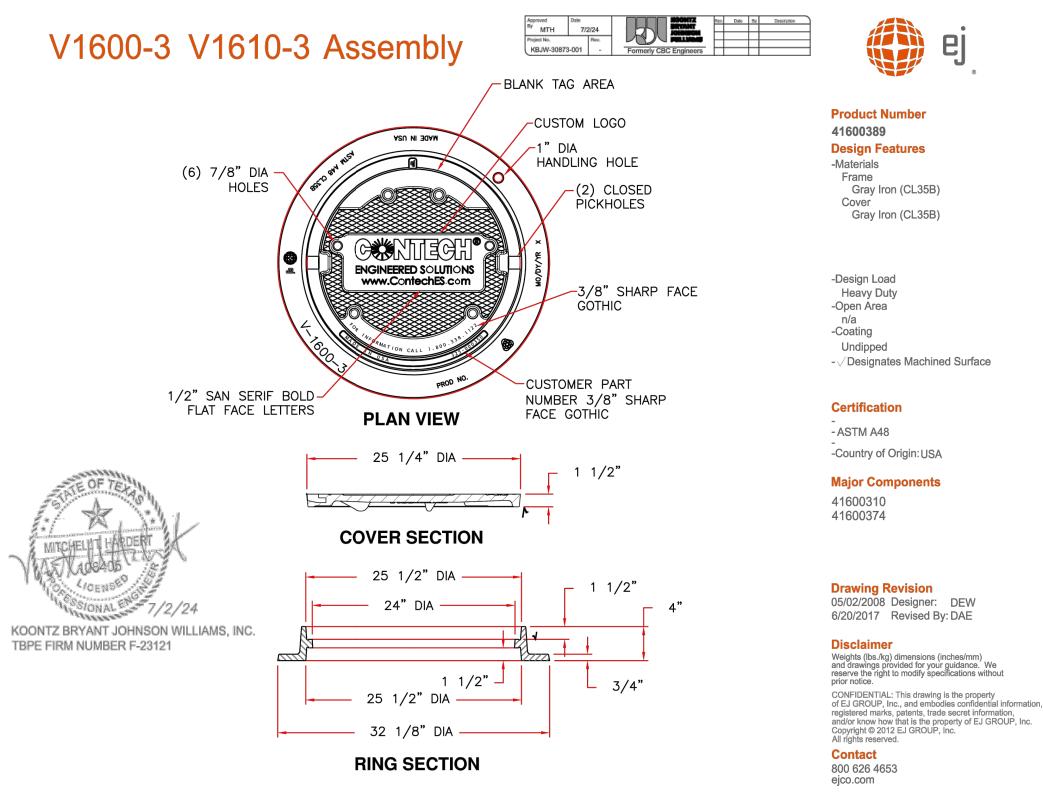




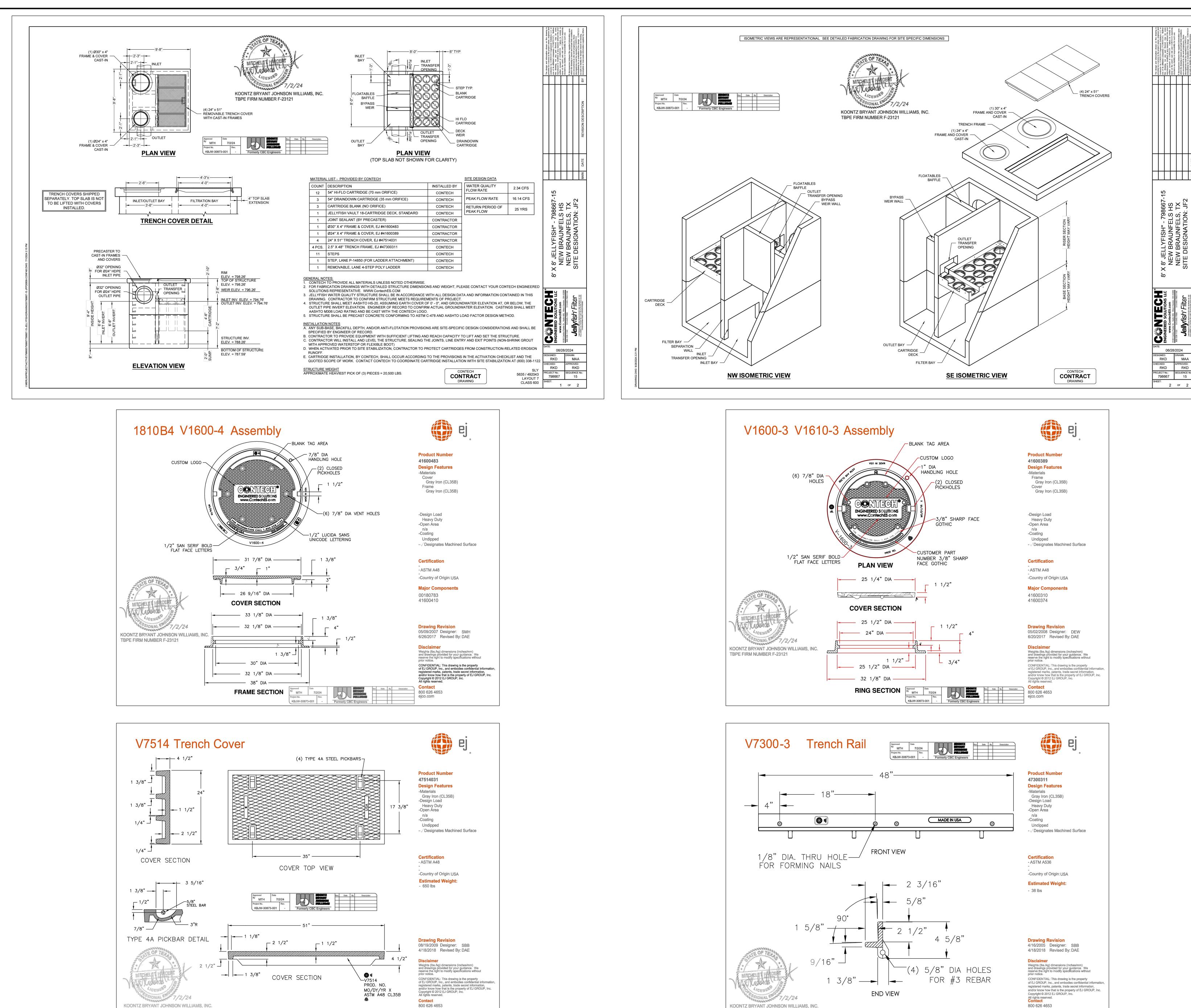


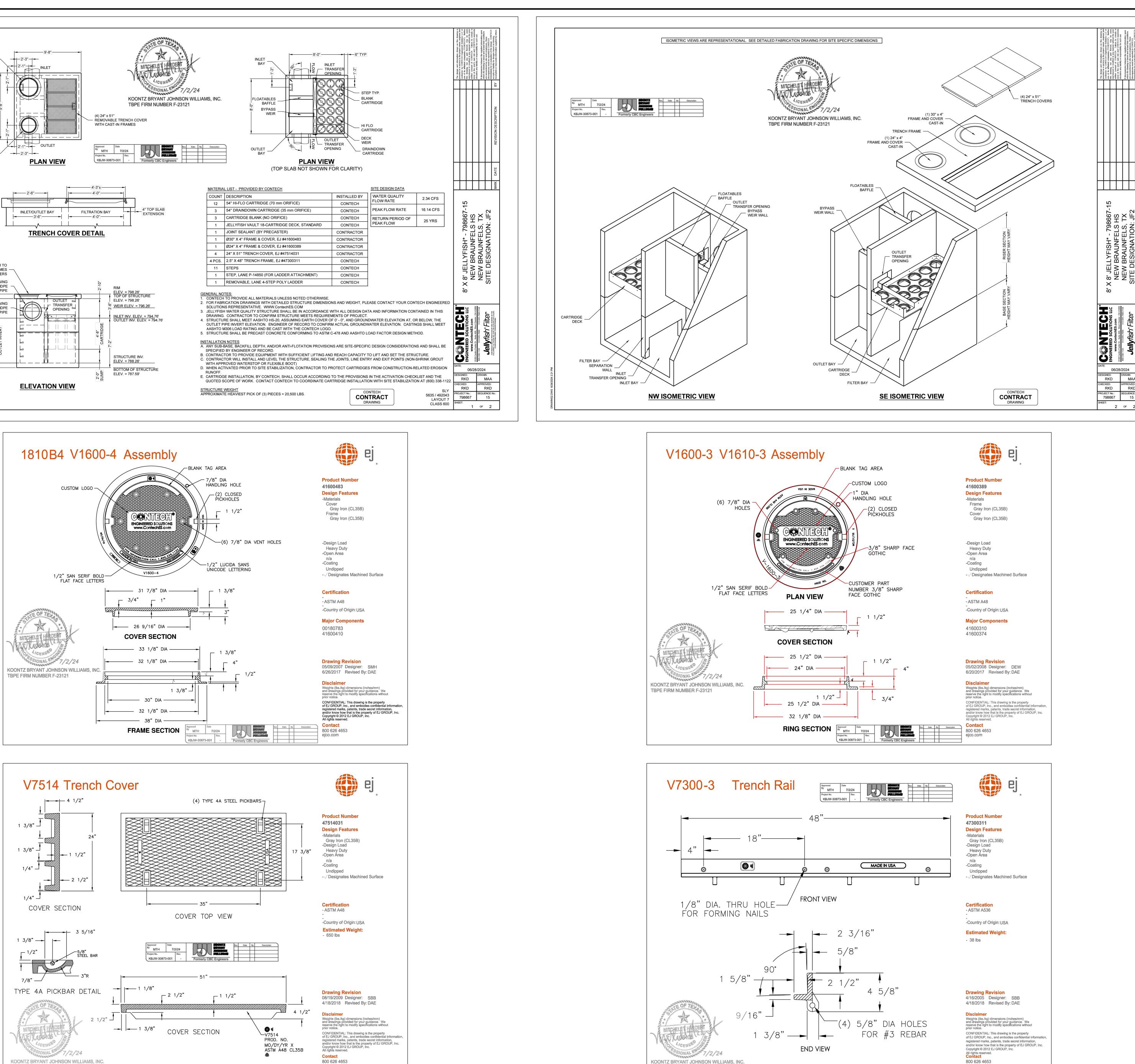


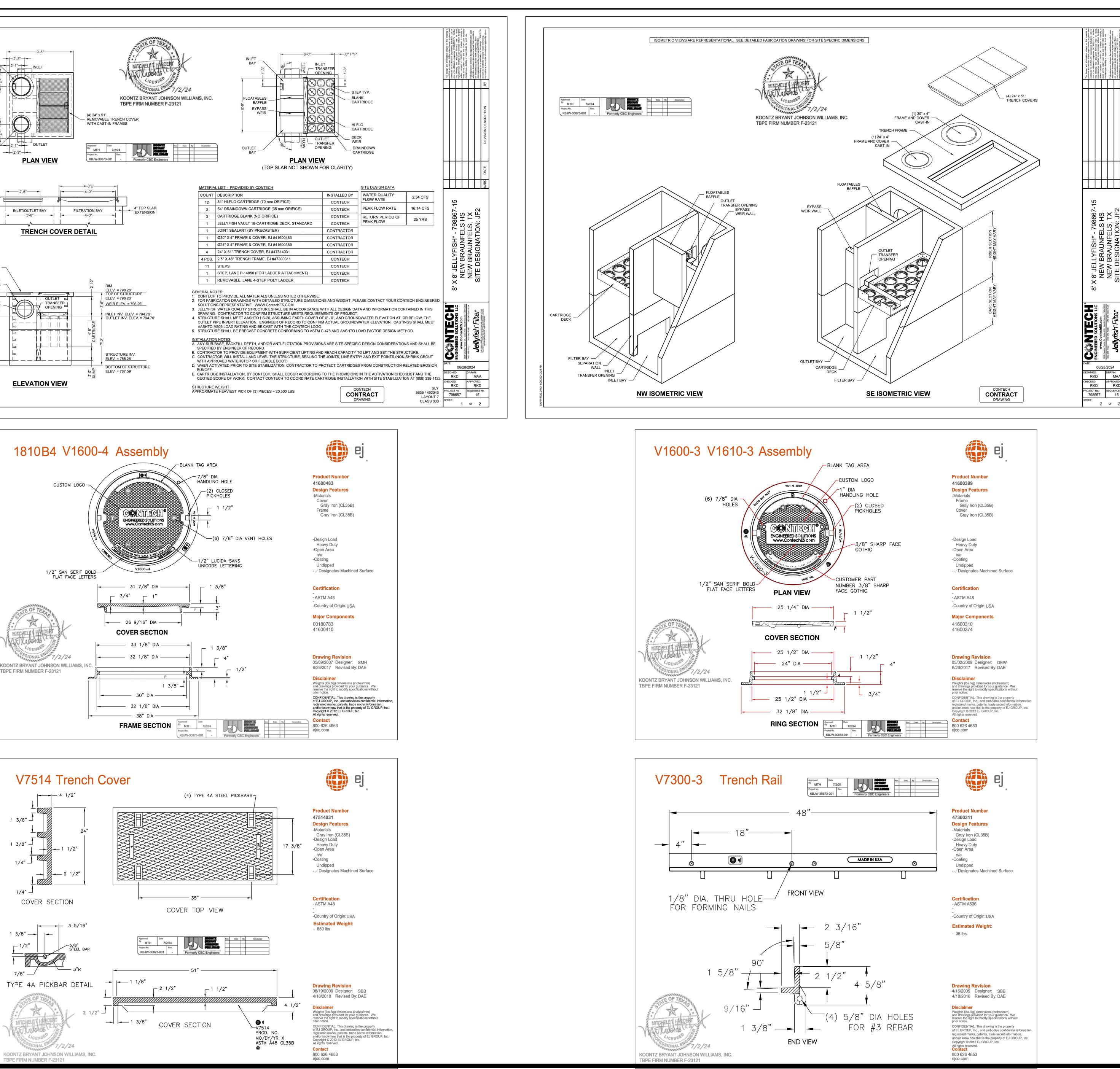




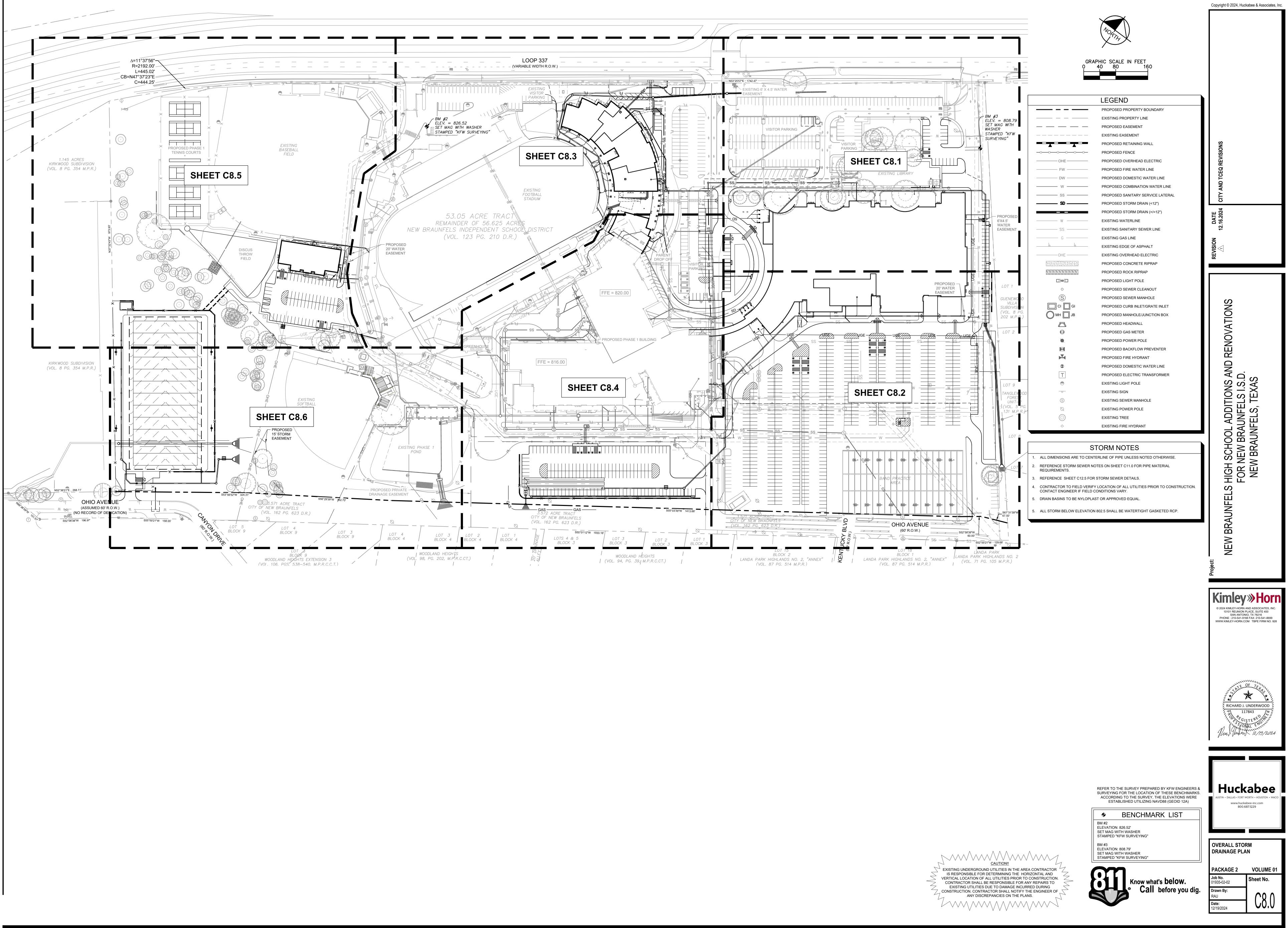


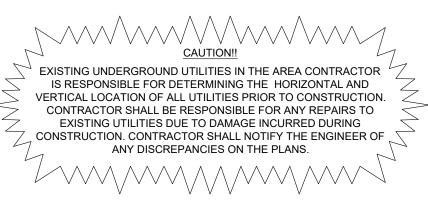




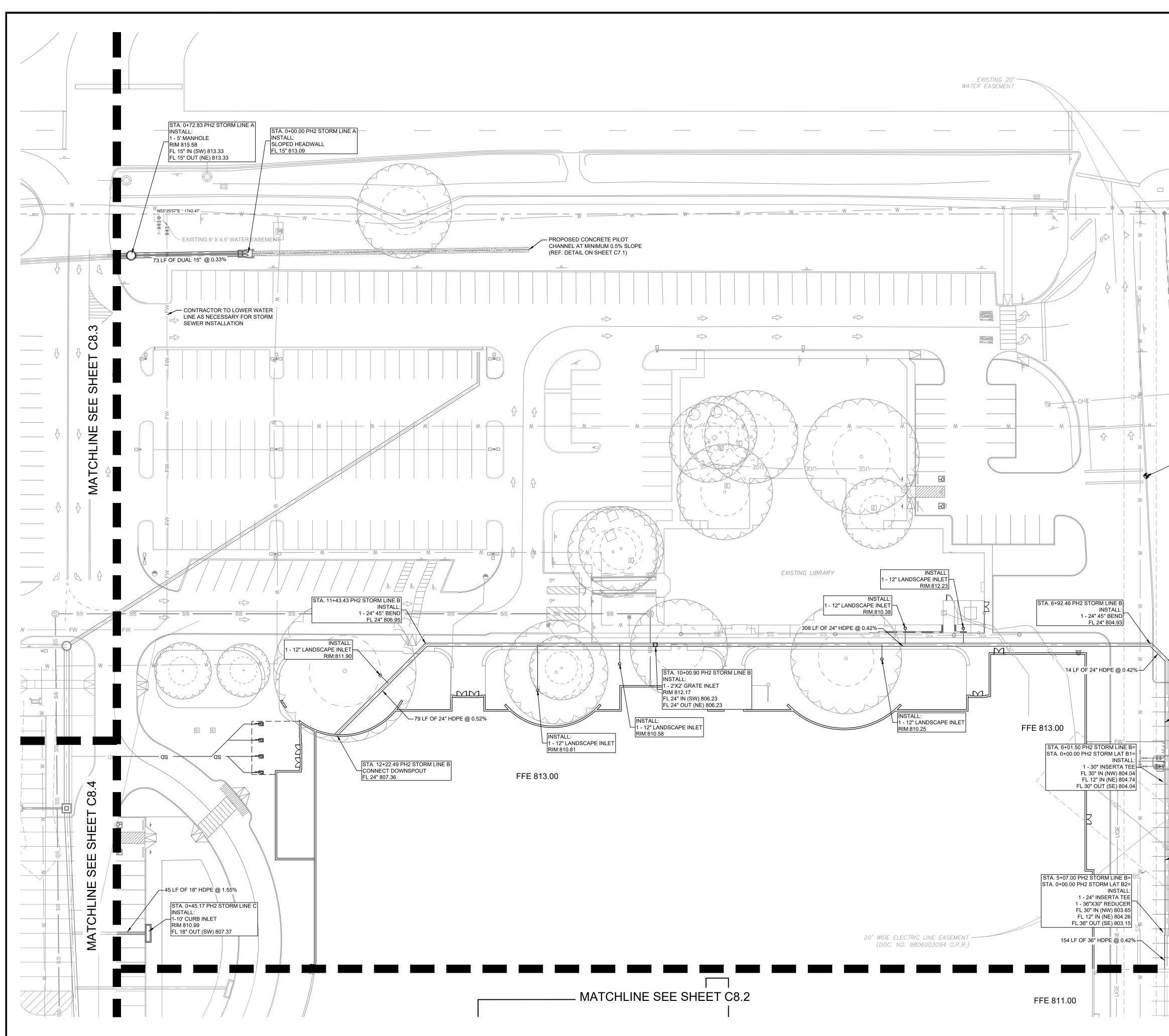


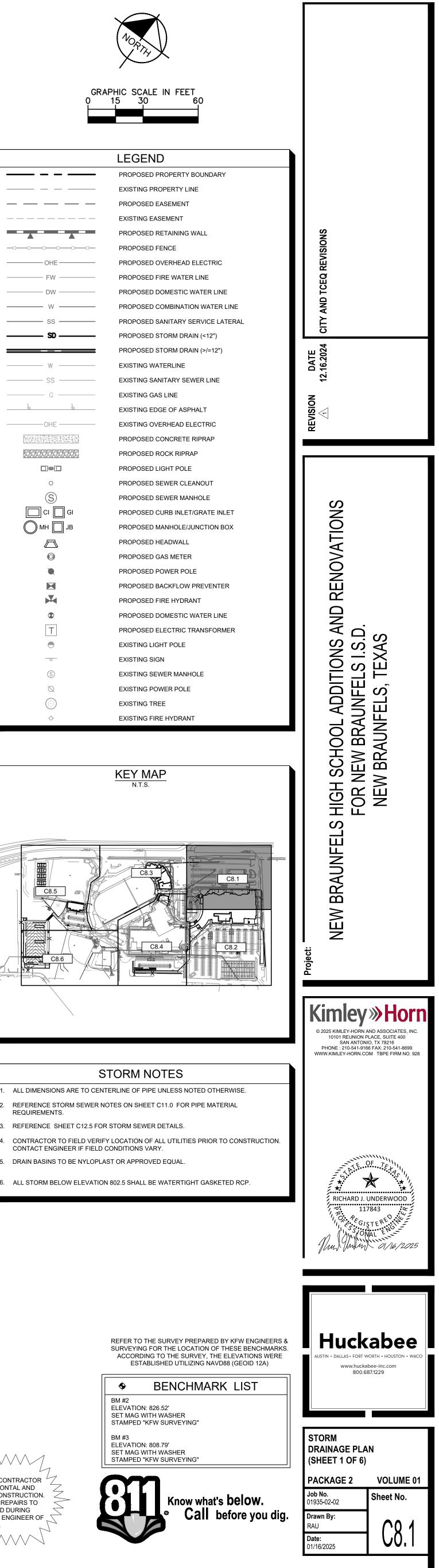




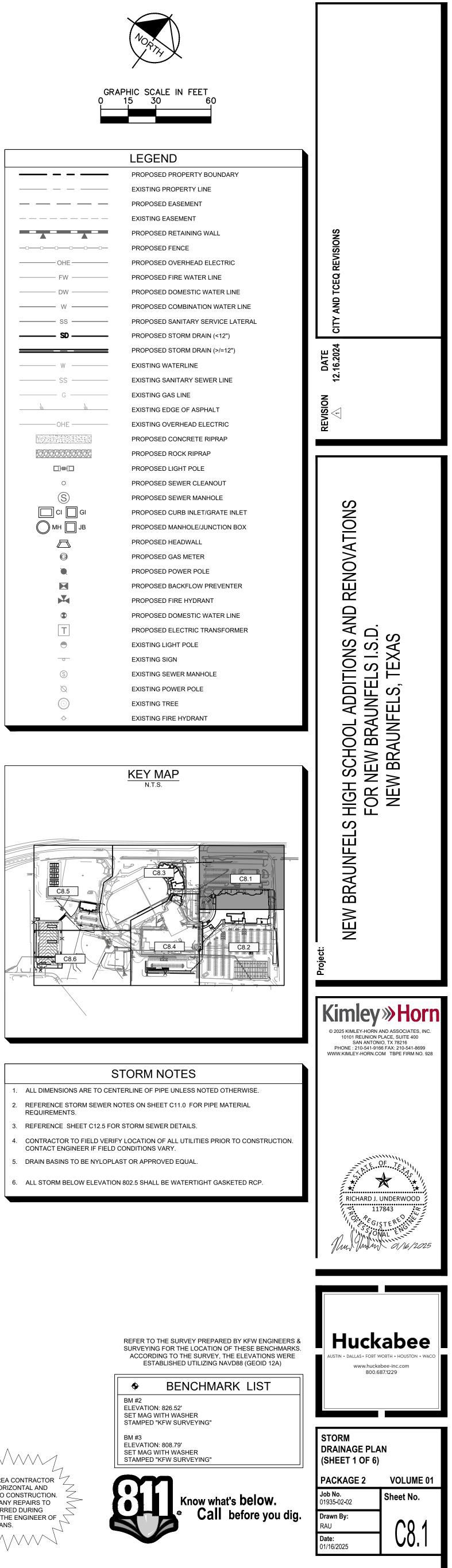




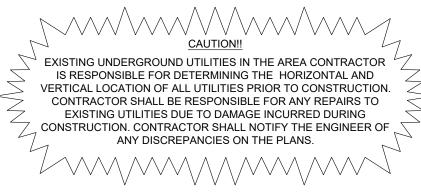


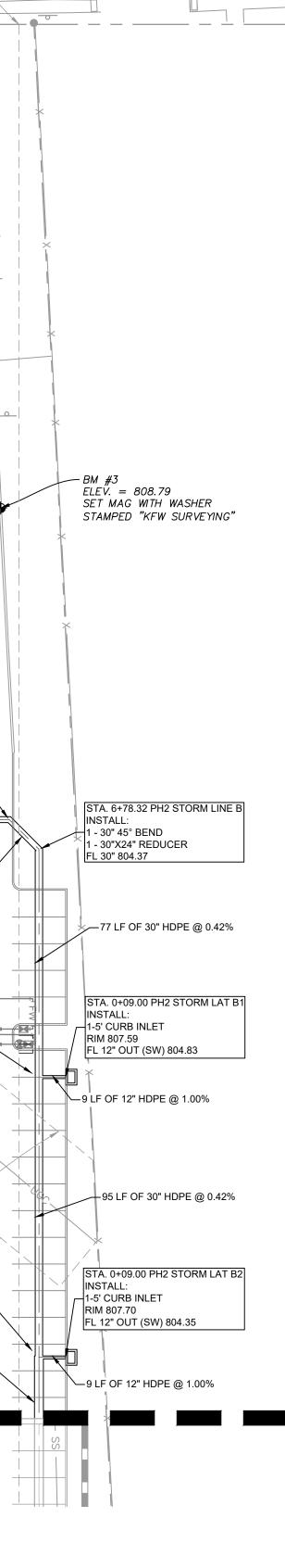


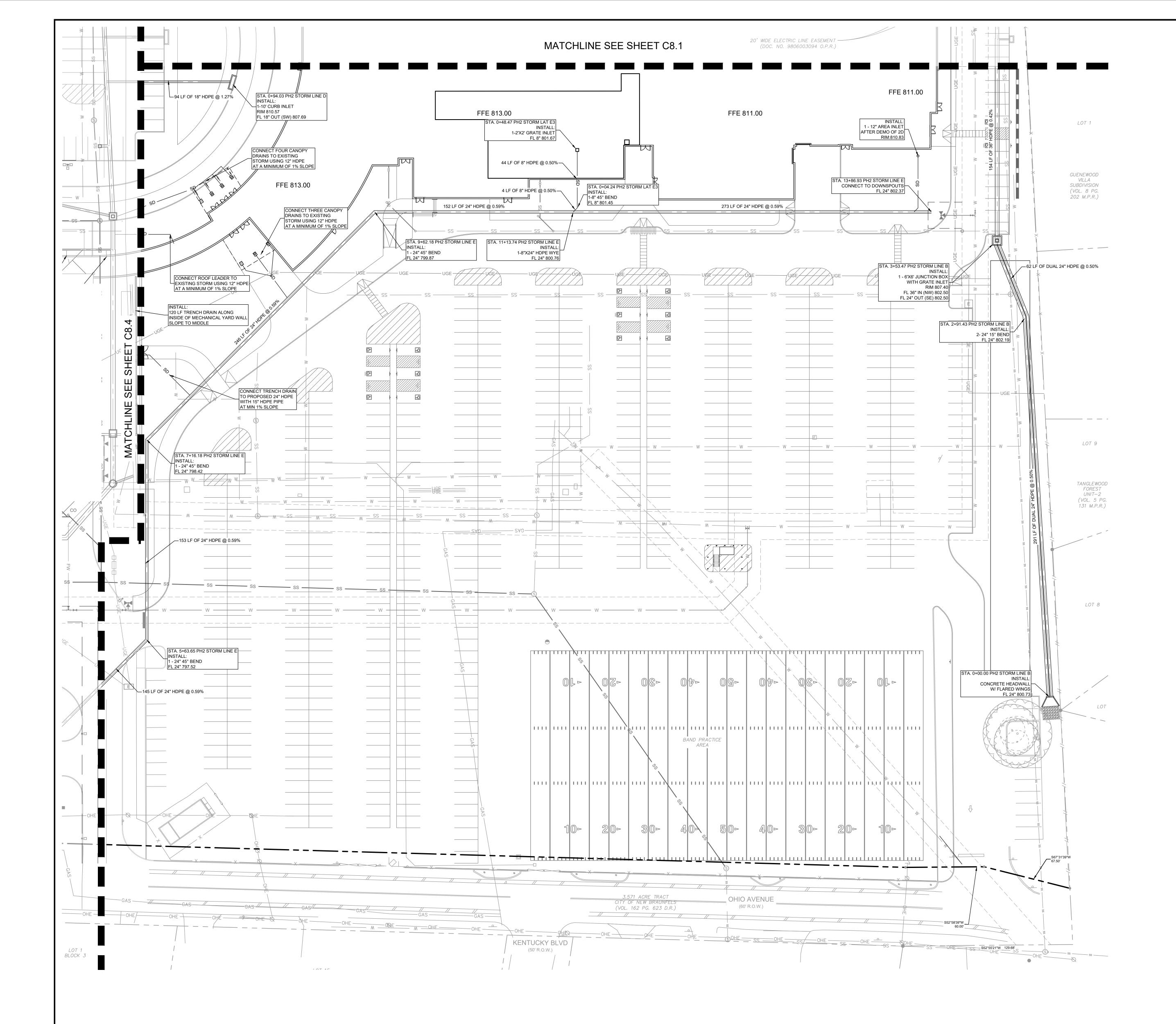
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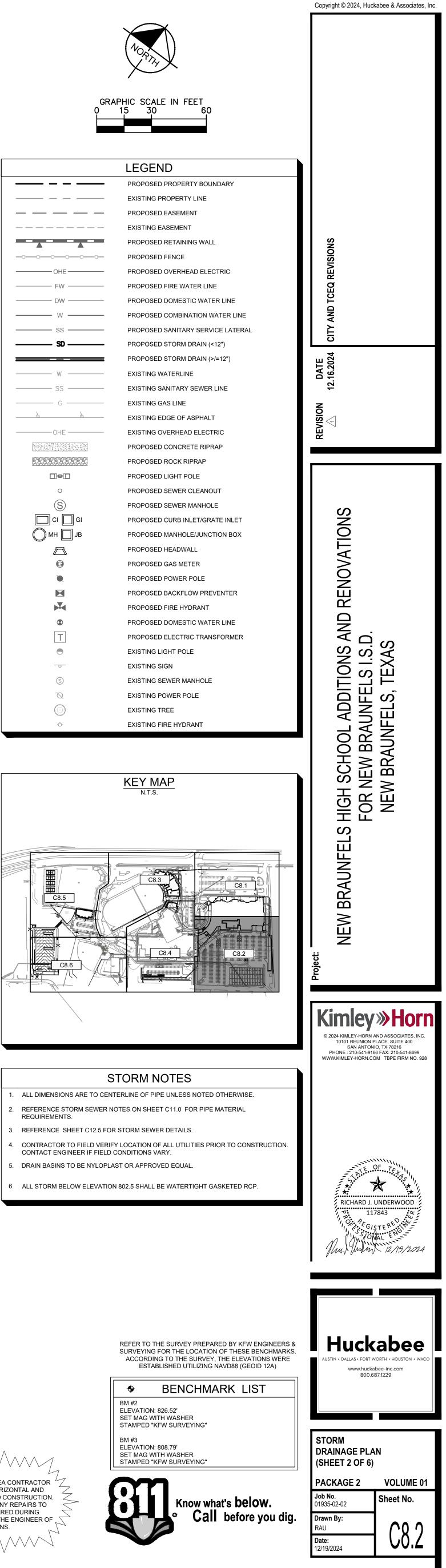


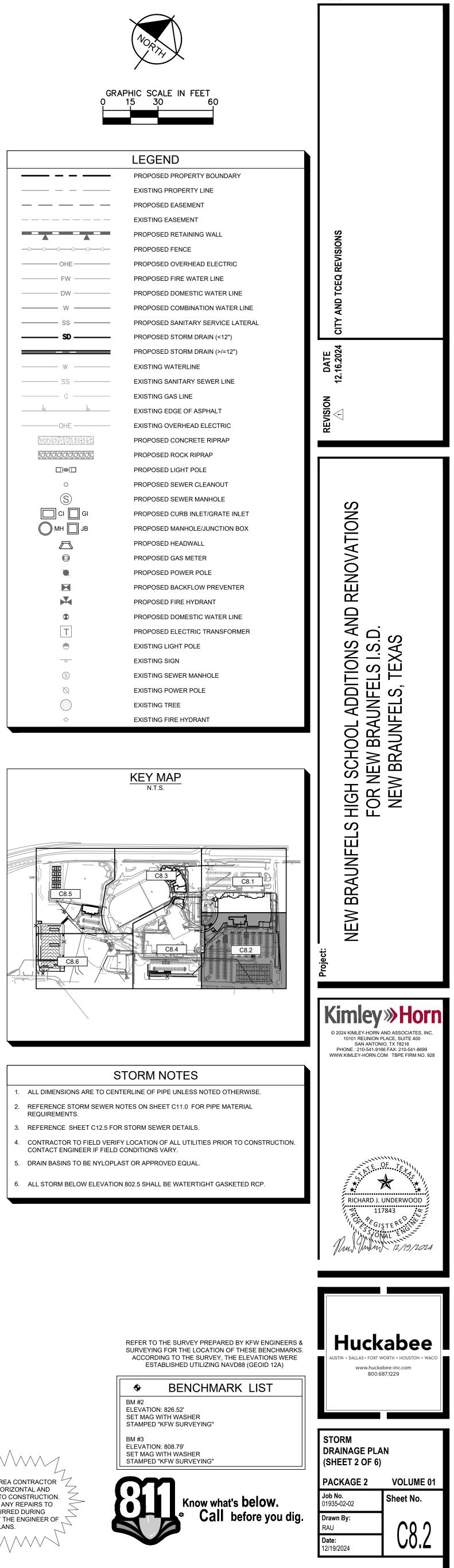




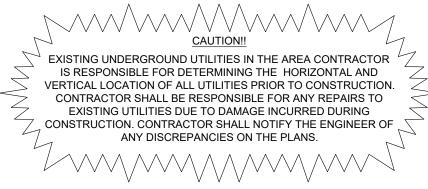


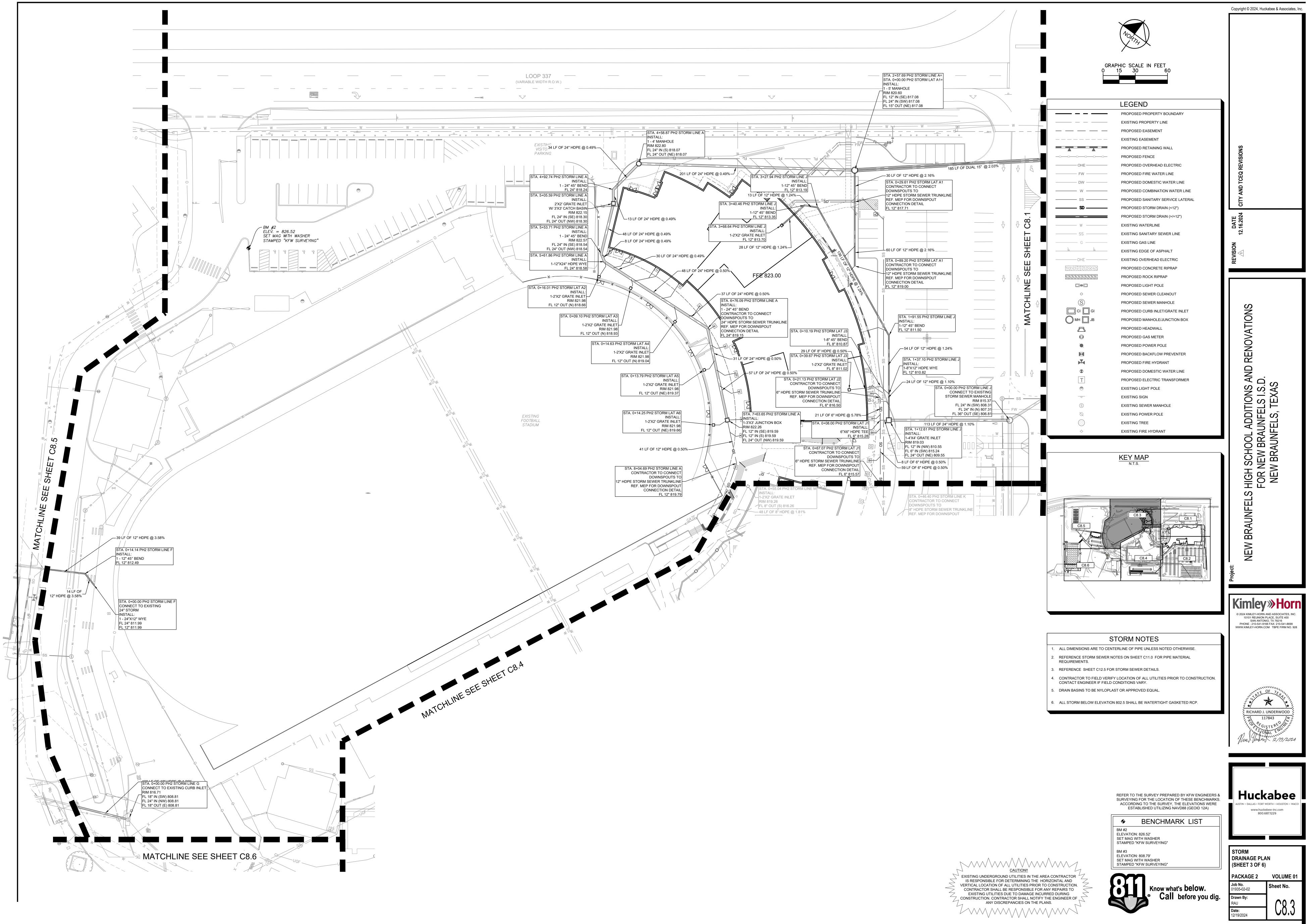


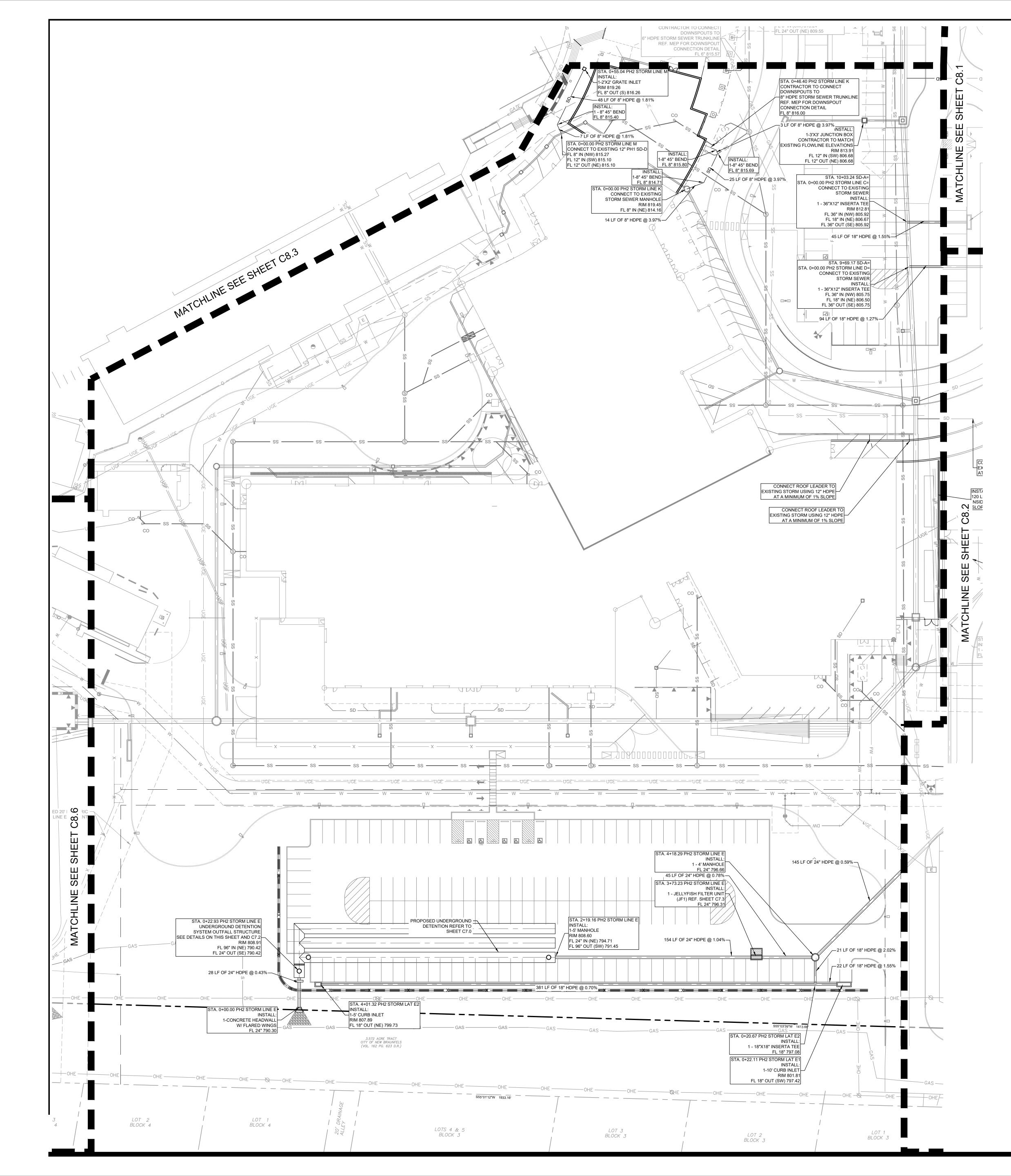


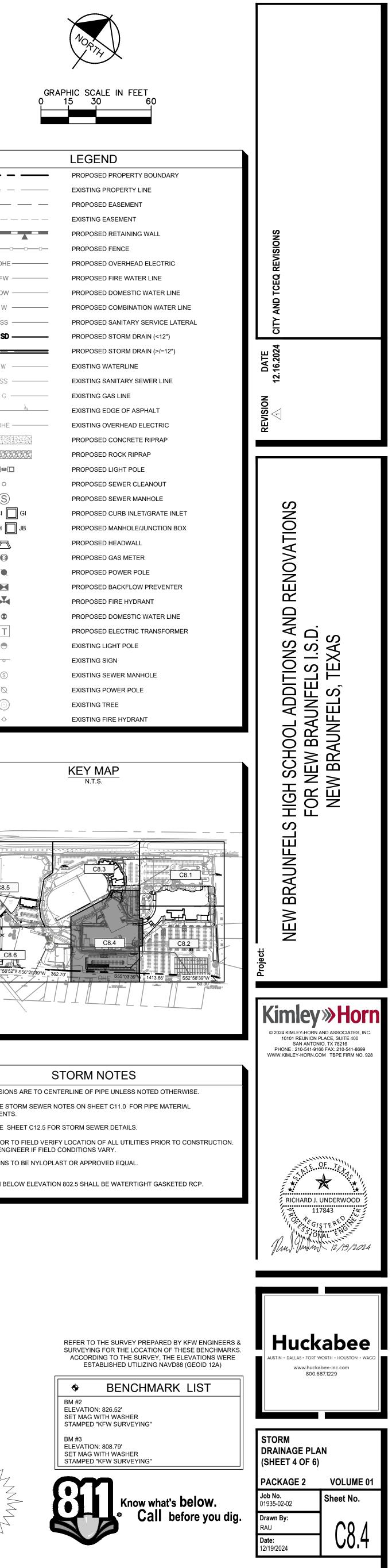




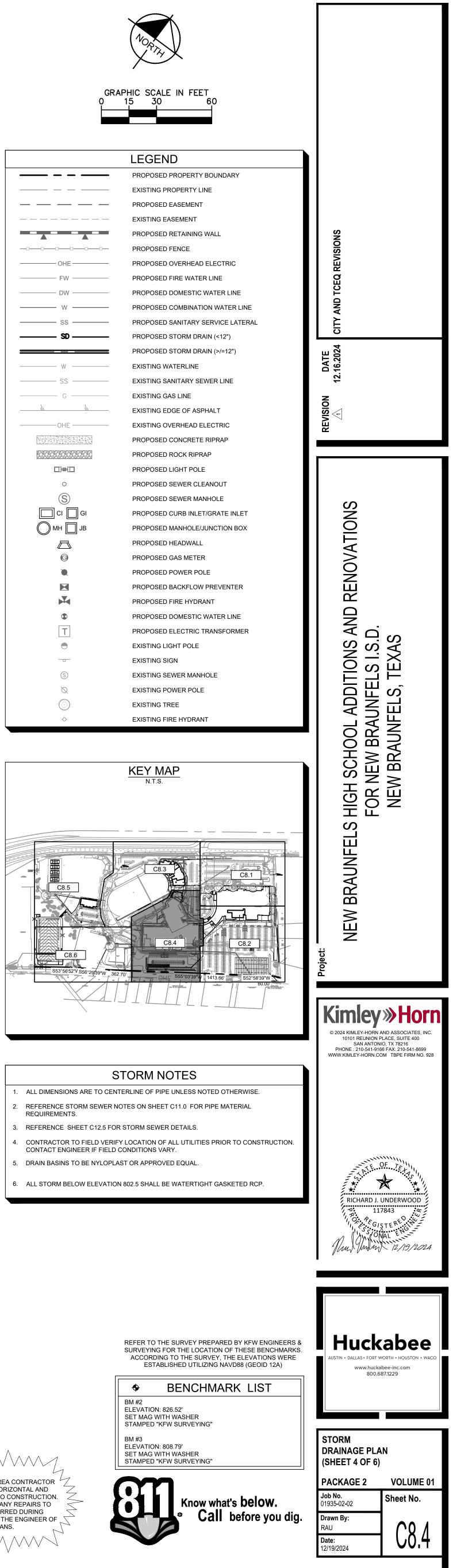




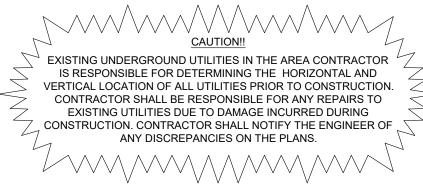




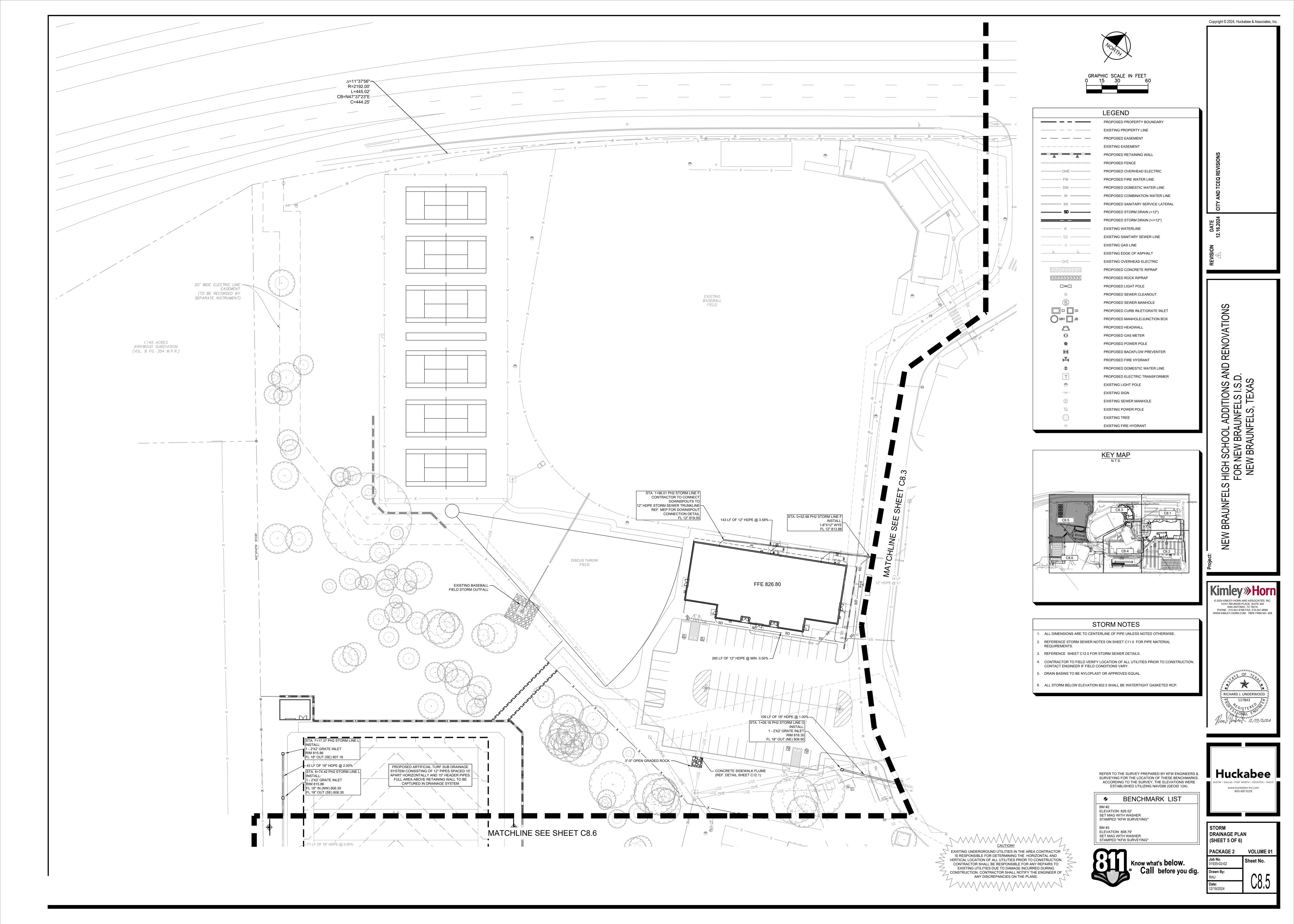
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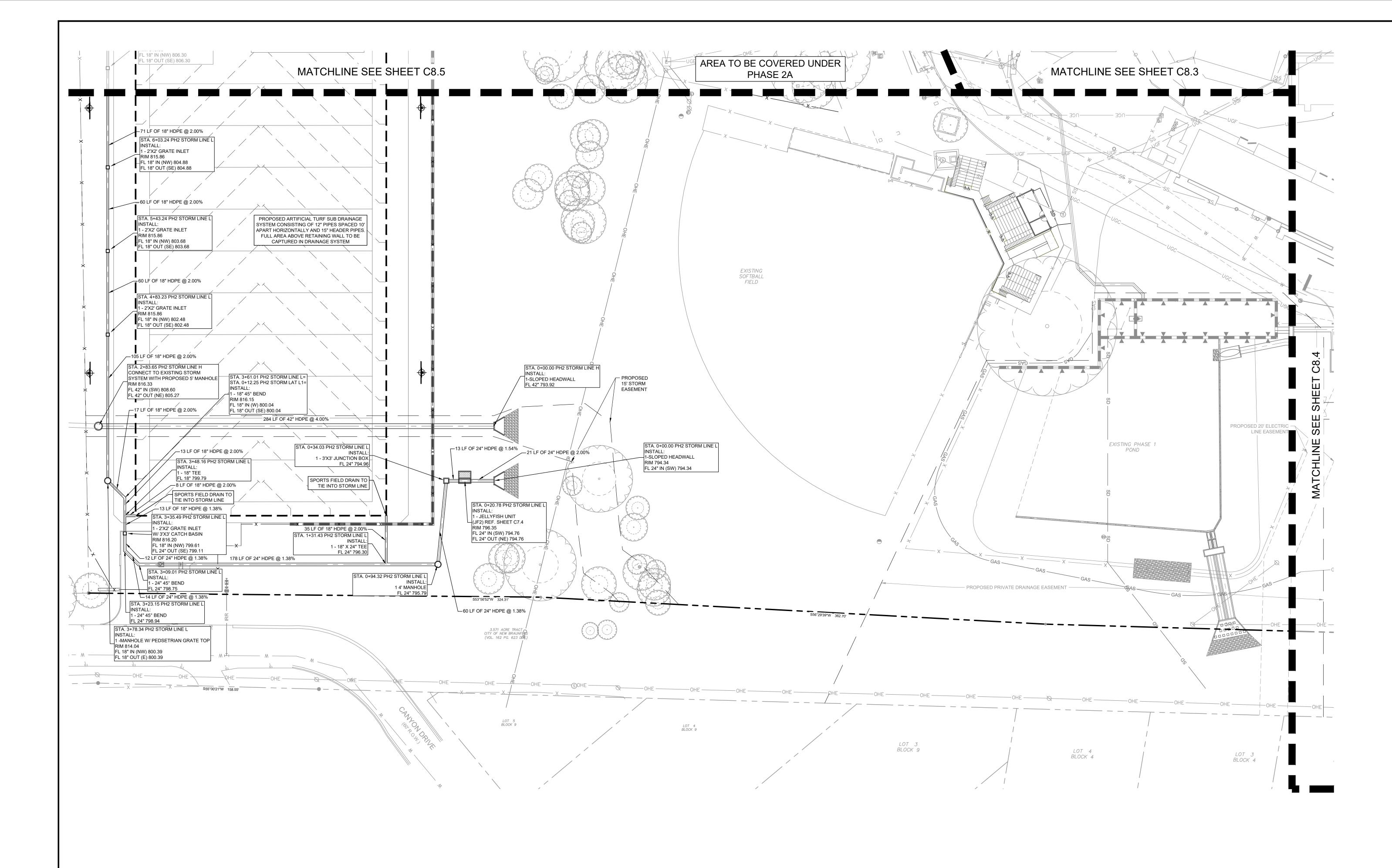












	LEGEND
	PROPOSED PROPERTY BOU
	EXISTING PROPERTY LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED RETAINING WAL
-0000000	PROPOSED FENCE
OHE	PROPOSED OVERHEAD ELE
FW	PROPOSED FIRE WATER LIN
DW	PROPOSED DOMESTIC WAT
W	
SS	PROPOSED SANITARY SERV PROPOSED STORM DRAIN (•
	PROPOSED STORM DRAIN (
W	EXISTING WATERLINE
SS	EXISTING SANITARY SEWER
G	EXISTING GAS LINE
//////////	EXISTING EDGE OF ASPHAL
OHE	EXISTING OVERHEAD ELECT
	PROPOSED CONCRETE RIPF
	PROPOSED ROCK RIPRAP
	PROPOSED LIGHT POLE
0	PROPOSED SEWER CLEANC
<u> </u>	PROPOSED SEWER MANHO
CI GI	PROPOSED CURB INLET/GR
🔘 мн 🔲 јв	PROPOSED MANHOLE/JUNC
	PROPOSED HEADWALL
G	PROPOSED GAS METER
	PROPOSED POWER POLE PROPOSED BACKFLOW PRE
	PROPOSED FIRE HYDRANT
	PROPOSED DOMESTIC WAT
Т	PROPOSED ELECTRIC TRAN
	EXISTING LIGHT POLE
	EXISTING SIGN
S	EXISTING SEWER MANHOLE
Ø	EXISTING POWER POLE
\odot	EXISTING TREE
	EXISTING FIRE HYDRANT

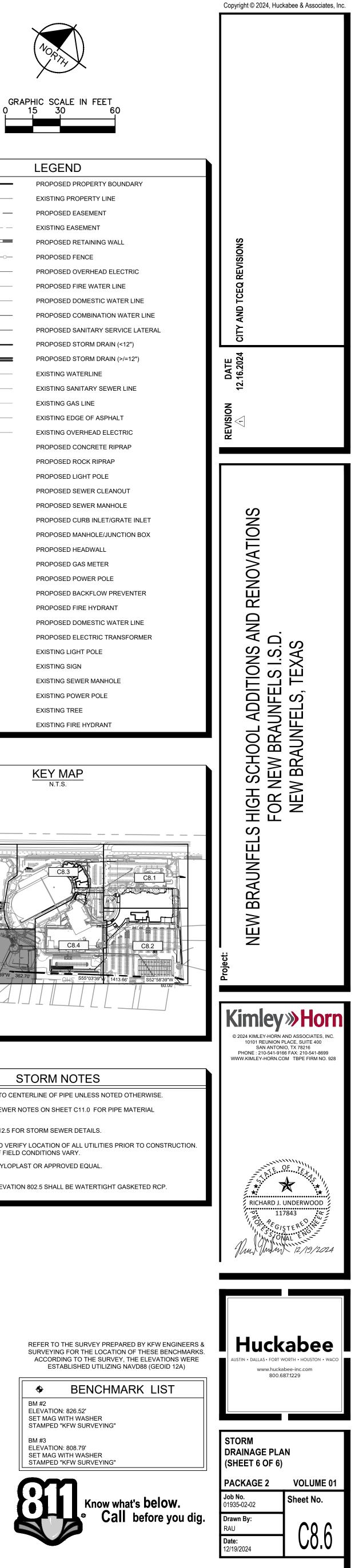
	S53°56′52″V S56°29/39″W 362.70 OHE S55°03'39″W 1413.66′
	STORM NOTES
1.	ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OT
2.	REFERENCE STORM SEWER NOTES ON SHEET C11.0 FOR PIPE MARKED REQUIREMENTS.
3.	REFERENCE SHEET C12.5 FOR STORM SEWER DETAILS.

C8.6

4. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF FIELD CONDITIONS VARY.

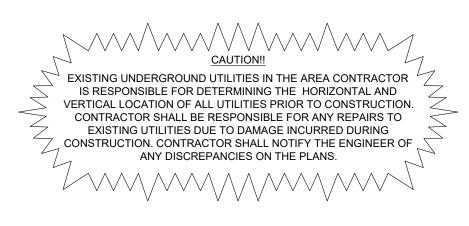
5. DRAIN BASINS TO BE NYLOPLAST OR APPROVED EQUAL.

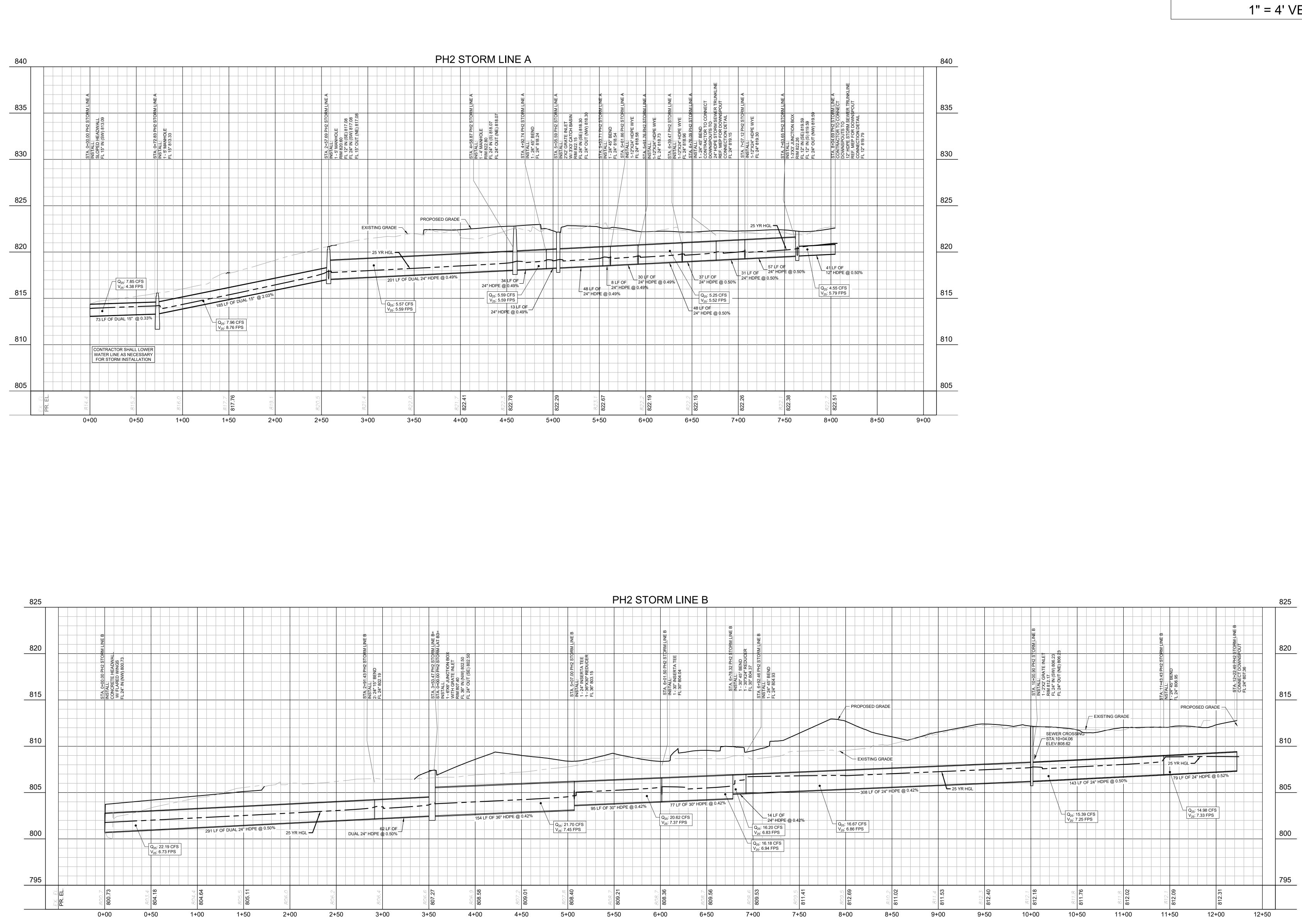
6. ALL STORM BELOW ELEVATION 802.5 SHALL BE WATERTIGHT GASKETED RCP.



SET MAG WITH WASHER STAMPED "KFW SURVEYING"

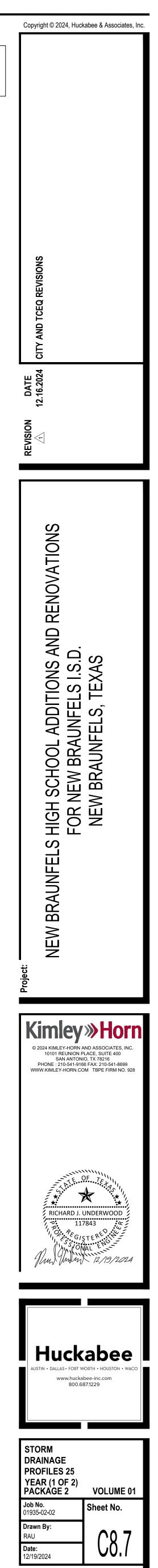


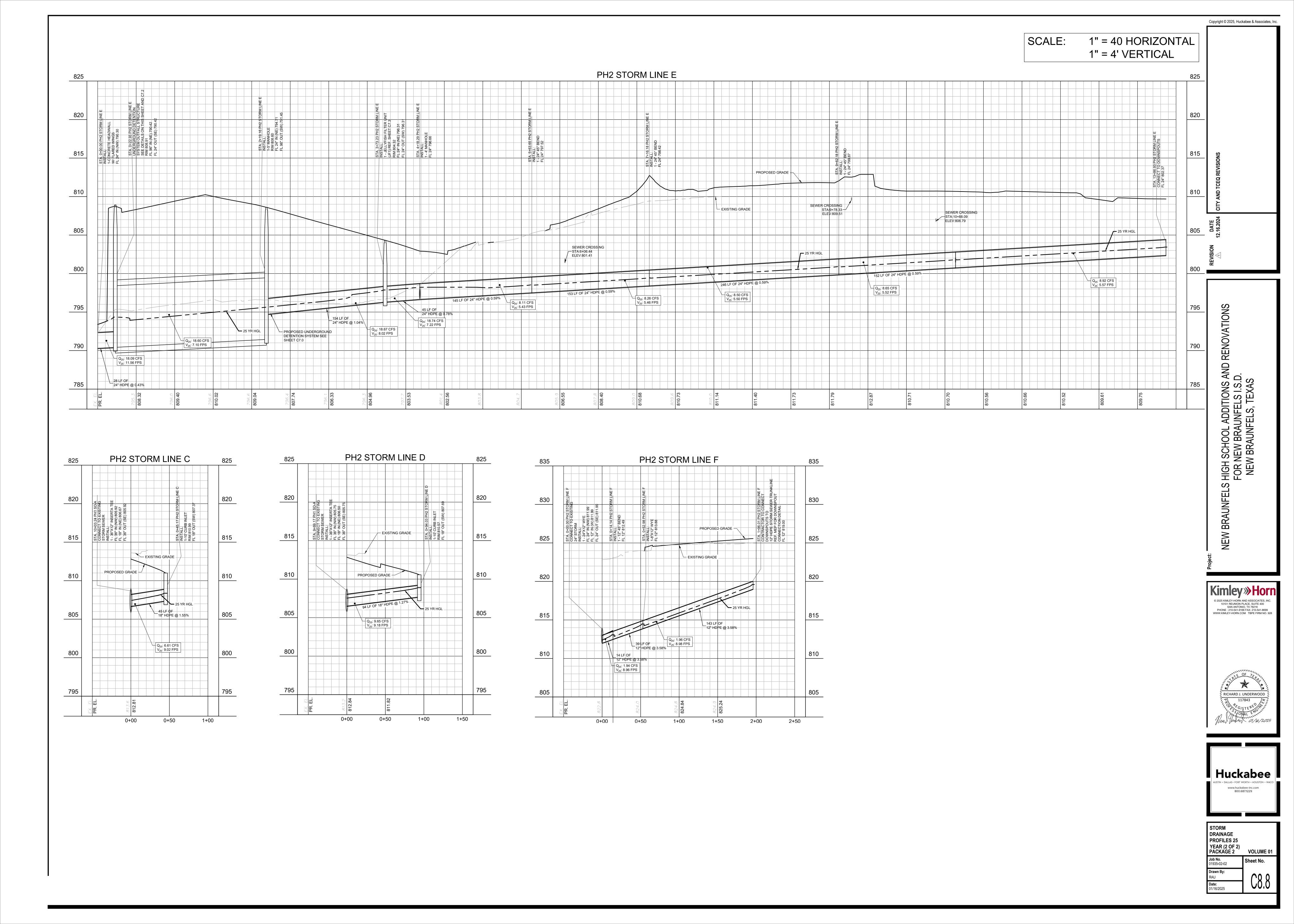


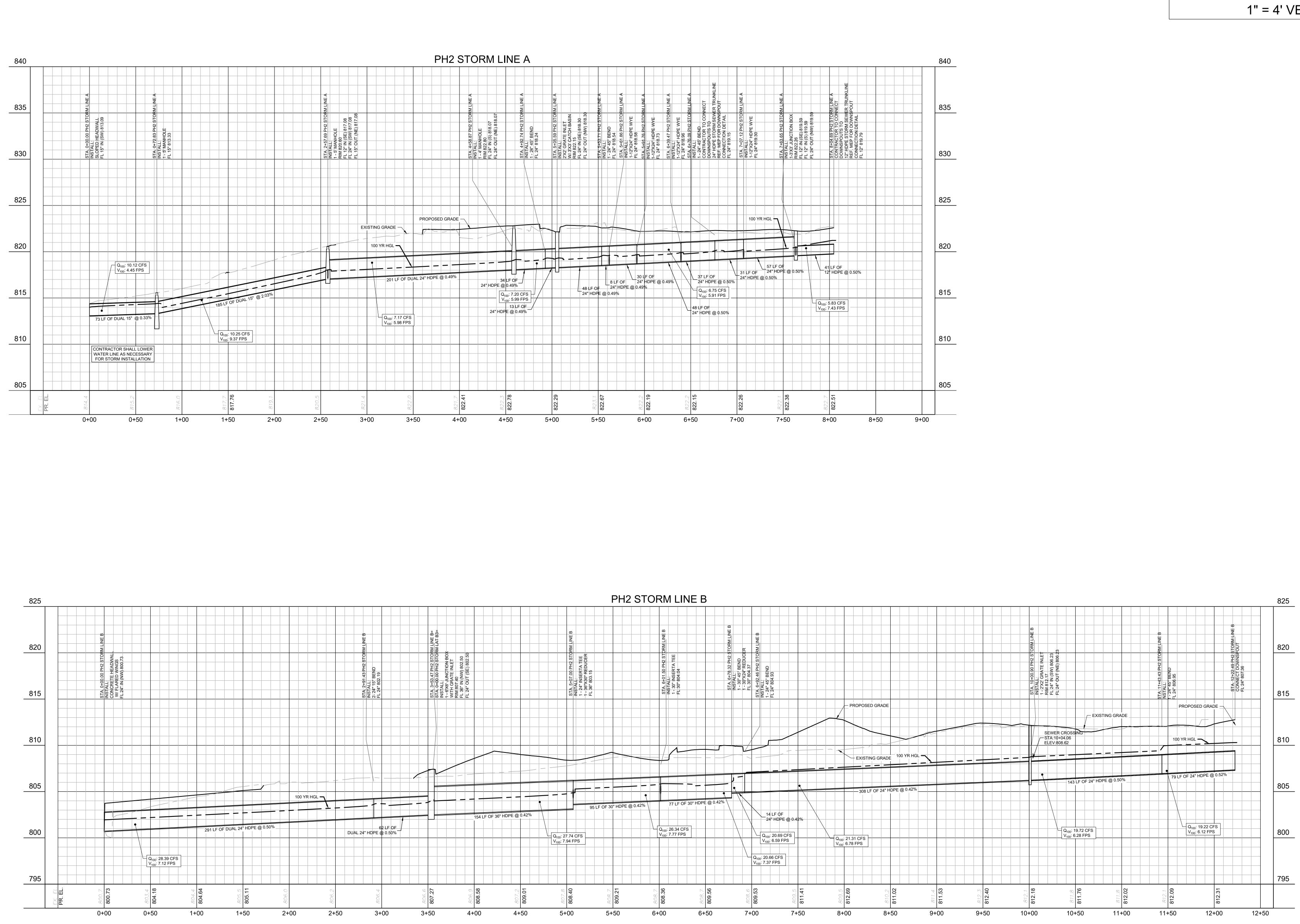


SCALE:	1" = 40 HORIZ
	1" = 4' VERTIC



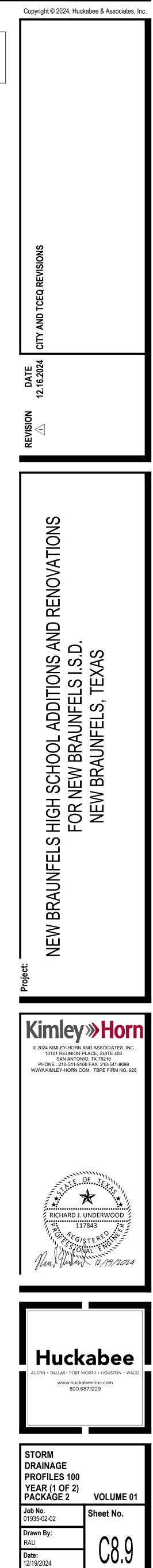


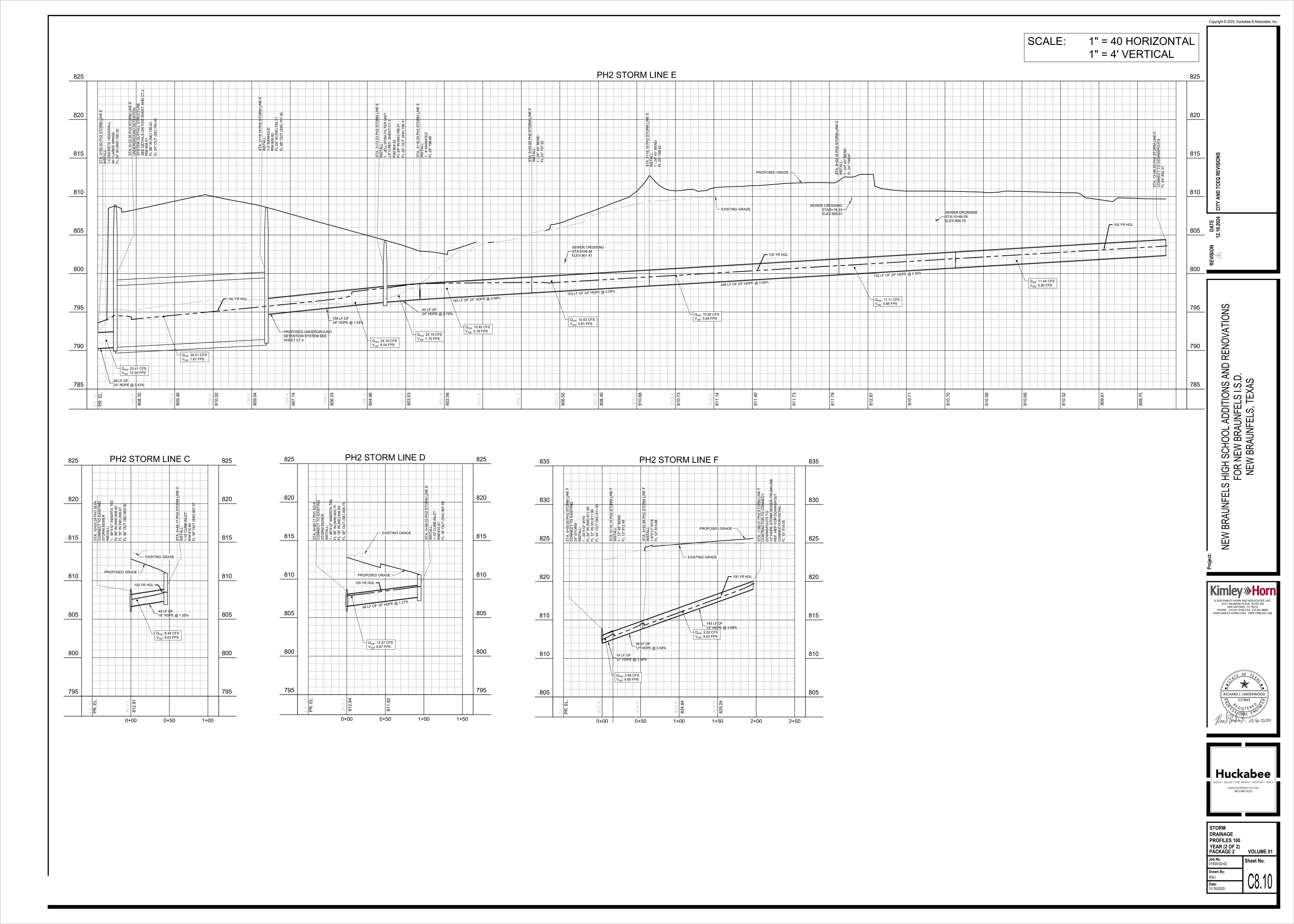


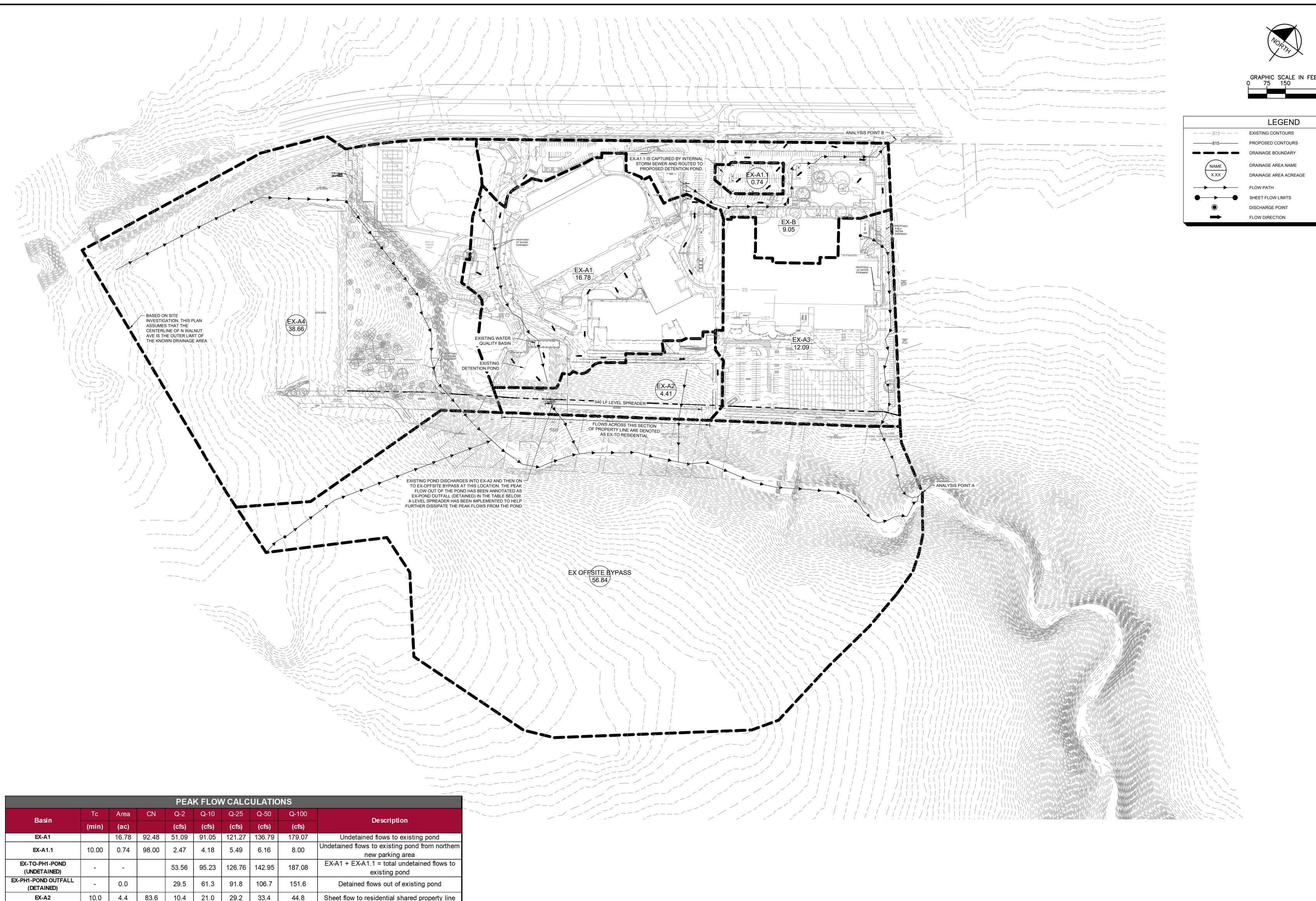


SCALE:	1" = 40 HORIZ
	1" = 4' VERTIC









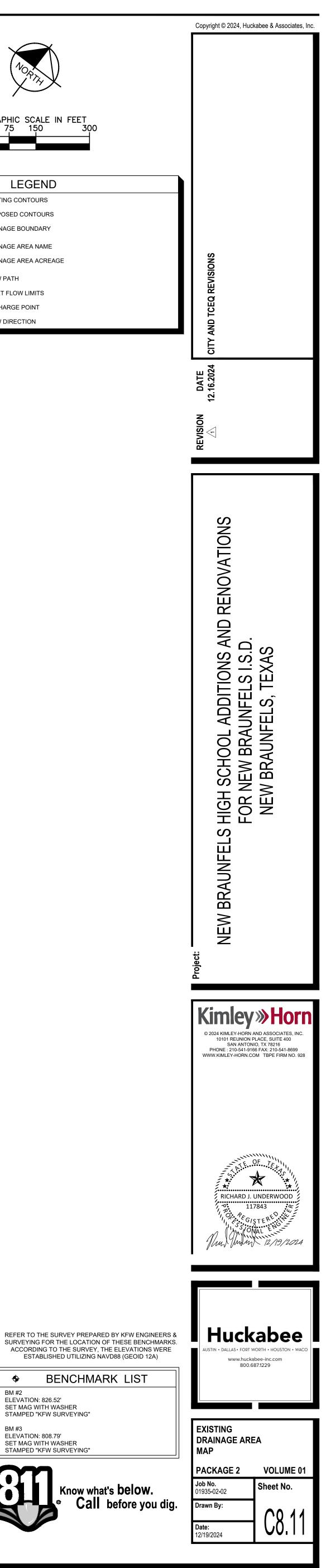
	PEAK FLOW CALCULATIONS										
Desin	Тс	Area	CN	Q-2	Q-10	Q-25	Q-50	Q-100	Description		
Basin	(min)	(ac)		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	Description		
EX-A1		16.78	92.48	51.09	91.05	121.27	136.79	179.07	Undetained flows to existing pond		
EX-A1.1	10.00	0.74	98.00	2.47	4.18	5.49	<mark>6.16</mark>	8.00	Undetained flows to existing pond from no new parking area		
EX-TO-PH1-POND (UNDETAINED)	-	-		53.56	95.23	126.76	142.95	187.08	EX-A1 + EX-A1.1 = total undetained flow existing pond		
EX-PH1-POND OUTFALL (DETAINED)	-	0.0		29.5	61.3	91.8	106.7	151.6	Detained flows out of existing pond		
EX-A2	10.0	4.4	83.6	10.4	21.0	29.2	33.4	44.8	Sheet flow to residential shared property		
EX-TO RESIDENTIAL	-	0.0		37.1	76.2	114.4	133.4	188.8	EX-PH1-POND OUTFALL + EX-A2 = t discharge flow to residential shared pro line		
EX-OFFSITE BYPASS	17.1	56.8	92.6	146.6	261.0	347.5	391.9	512.9	Existing Off-site area that bypasses the Analysis Point A		
EX-A3	12.3	12.1	97.8	40.3	68.3	89.6	100.6	130.7	Existing sheet flow to Ohio Avenue		
EX-A4	13.2	38.7	92.6	118.3	210.3	279.9	315.7	413.1	Combination of existing run-on to the so property with undetained on-site flows bypass existing pond leaving the propert discharging to drainage channel west o existing pond		
EX-POINT A	-	0.0		333.8	591.7	803.7	913.2	1203.9	EX-TO RESIDENTIAL + EX-OFFSITE BY + EX-A3 + EX-A4 = Total Existing Flow Analysis Point A		
EX-B	10.00	9.05	96.45	29.74	50.80	66.83	75.10	97.69	Existing peak flow to Point B		

NOTE: THE PEAK FLOWS SHOWN CORRESPOND TO THE OUTPUTS FROM HYDRAFLOW HYDROGRAPHS FROM THE ROUTED MODEL AND CORRESPOND WITH THE TIME OF CONCENTRATION OF THE LARGER DRAINAGE AREA.

shared property line LL + EX-A2 = total ntial shared property

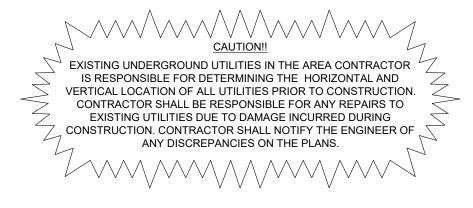
bypasses the site to oint A to Ohio Avenue run-on to the school d on-site flows that wing the property and channel west of the ond

X-OFFSITE BYPASS tal Existing Flow to oint A



BM #2 ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" BM #3 ELEVATION: 808.79' SET MAG WITH WASHER





BASED OI INVESTI ASSUME CENTER AVE IS T THE KNO	ON SITE GATION, THIS PLAN ES THAT THE RINE OF N WALNUT THE OUTER LIMIT OF OWN DRAINAGE AREA		

PEAK FLOW CALCULATIONS											
Basin	Tc	Area	CN	Q-2	Q-10	Q-25	Q-50	Q-100	Description		
Dasin	(min)	(ac)		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	Description		
PR-A1	12.77	16.60	96.38	54.48	93.12	122.55	137.71	179.16	Undetained flows to existing PH1 pond		
SFBL	10.00	1.05	0.00	0.74	0.76	0.77	0.79	0.81	Softball field drainage. Calculation from Report by CEI Engineering Associates Dated 8/23/2023.		
PR- TO PH1 POND (UNDETAINED)	-	17.65		54.48	93.12	122.55	137.72	179.67	PR-A1+SFBL=Undetained flows to existing PH1 pond		
PR-PH1-POND OUTFALL (DETAINED)	-	-		29.88	59.55	88.04	102.26	142.03	Detained flows out of existing PH1 pond		
PR-A2	10.00	3.00	85.34	7.48	14.75	20.29	23.14	30.88	Sheet flow to residential shared property line		
PR-A5	10.00	1.41	96.47	4.63	7.91	10.41	11.70	15.22	undetained flows to proposed PH2 pond from southern new parking area		
PR-A5.1	10.00	0.92	98.00	3.07	5.20	<mark>6.8</mark> 2	7.66	9.95	undetained flows to proposed PH2 pond from portion of new building		
PR-TO-PH2-POND (UNDETAINED)	-	2.33		7.71	13.11	17.23	19.36	25.17	PR-A5 + PR-A5.1 = total undetained flows to proposed PH2 pond		
PR-PH2-POND OUTFALL (DETAINED)	-	-		1.82	6.84	10.13	11.48	14.70	Detained flows out of Proposed PH2 pond		
PR-TO RESIDENTIAL	-	22.98		36.53	76.05	113.07	131.38	181.63	PR-PH1-POND OUTFALL + PR-A2 + PR-PH2- POND OUTFALL = total discharge flow to residential shared property line		
PR-OFFSITE BYPASS	17.06	56.84	92.60	146.62	260.97	347.46	391.88	512.92	Proposed Off-site area that bypasses the site to Analysis Point A		
PR-A3	12.34	11.72	97.03	38.76	65.95	86.69	97.38	126.61	Proposed sheet flow to Ohio Avenue		
PR-A4	13.23	33.36	93.22	103.43	182.59	242.49	273.27	357.20	Combination of proposed run-on to the school property with undetained on-site flows that bypass existing and proposed ponds leaving the property and discharging to drainage channel west of the existing PH1 pond		
PR-A4.1	10.00	2.19	95.95	7.15	12.26	16.14	18.15	23.62	Undetained flow from proposed practice field		
BSBL	10.00	3.14	0.00	1.76	1.90	2.01	2.11	2.21	Baseball field drainage. Calculation from Report by CEI Engineering Associates Dated 8/23/2023.		
PR-TOTAL TO A	-	130.23		323.61	570.83	776.23	881.57	1 <mark>1</mark> 60.73	PR-TO RESIDENTIAL + PR-OFFSITE BYPASS + PR-TOTAL A3 + PR-A4 + PR-A4.1 + BSBL = Total Proposed Flow to Analysis Point A		
PR-B	10.00	8.32	95.06	26.76	46.28	61.10	68.73	89.56	peak flow from northern parking to Point B		

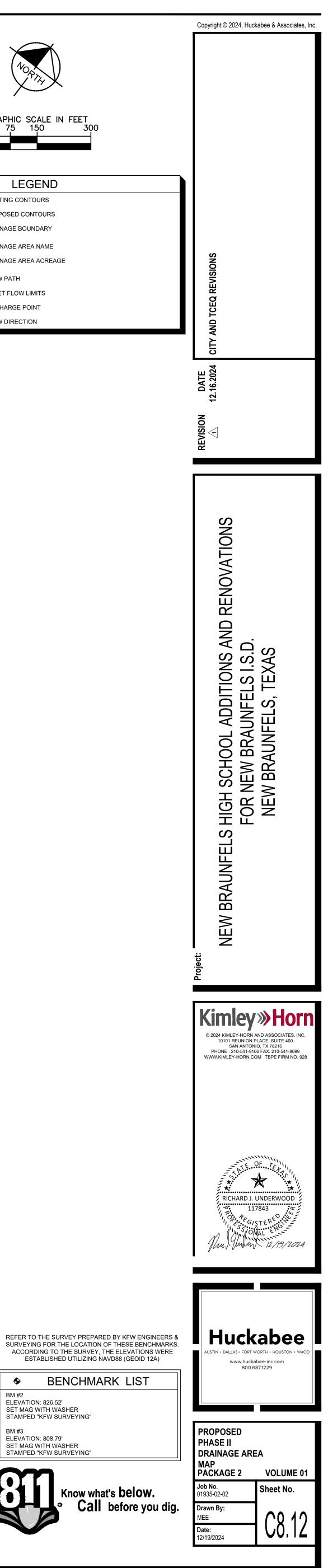
NOTE: THE PEAK FLOWS SHOWN CORRESPOND TO THE OUTPUTS FROM HYDRAFLOW HYDROGRAPHS FROM THE ROUTED MODEL AND CORRESPOND WITH THE TIME OF CONCENTRATION OF THE LARGER DRAINAGE AREA.



To Residential Comparison Table										
Basin	Q- 2	Q-10	Q- 25	Q-50	Q-100					
	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)					
EX-TO RESIDENTIAL	37.14	76.18	114.38	133.36	188.79					
PR-TO RESIDENTIAL	36.53	76.05	113.07	131.38	181.63					
Δ	-0.61	-0.13	-1.31	-1.98	-7.16					

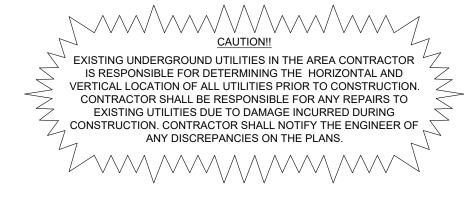
Point A Comparison Table					
Basin	Q-2	Q-1 0	Q-25	Q- 50	Q-100
Dasin	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
EX-TOTAL TO A	333.83	591.67	803.70	913.15	1203.87
PR-TOTAL TO A	323.61	570.83	776.23	881.57	1160.73
Δ	-10.22	-20.84	-27.47	-31.58	-43.14

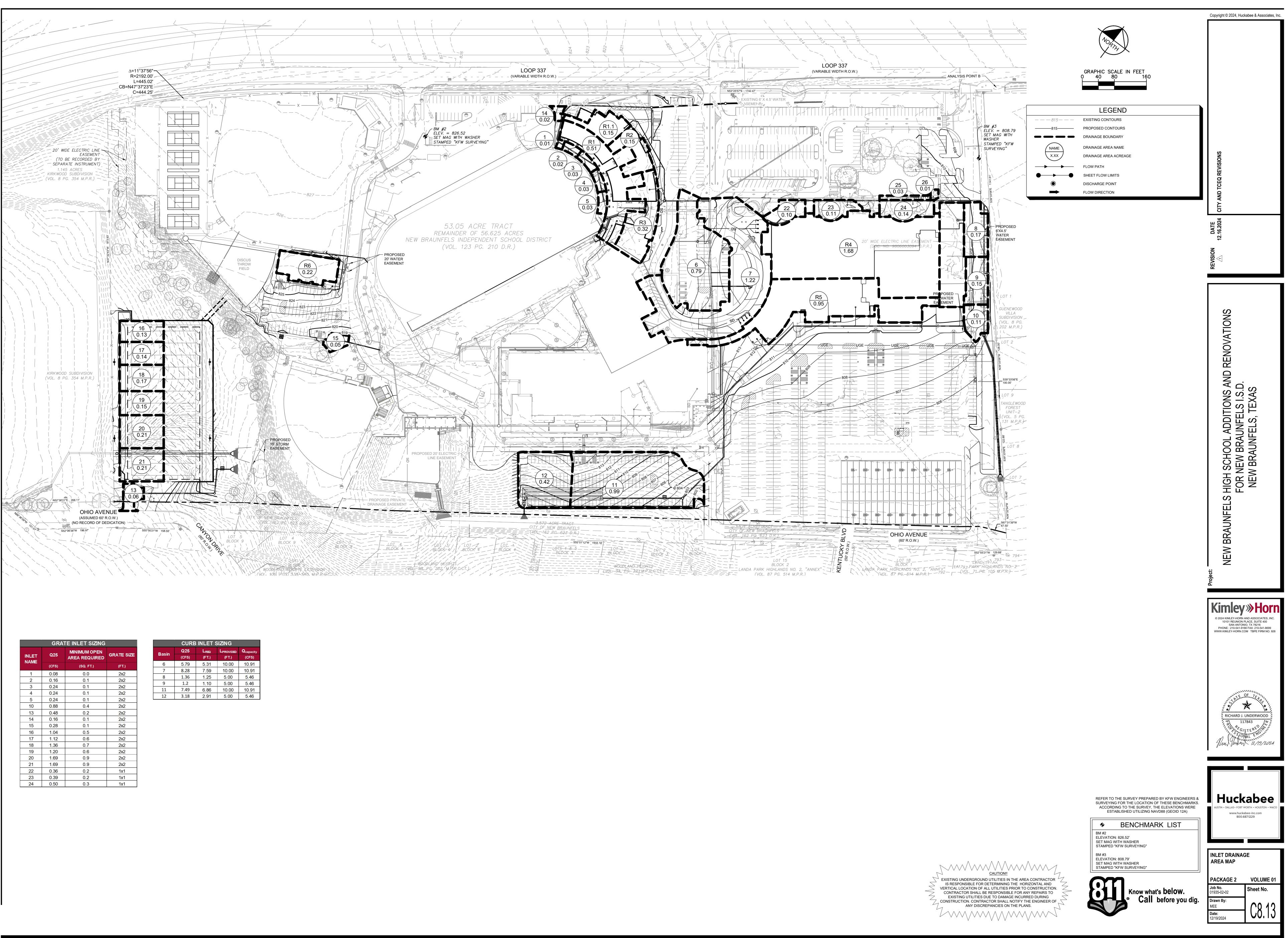
Point B Comparison Table							
Basin	Q-2	Q-1 0	Q-25	Q- 50	Q-100		
Dasili	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)		
EX-B	29.74	50.80	66.83	75.10	97.69		
PR-TOTAL TO B	26.76	46.28	61.10	68.73	89. <u>5</u> 6		
Δ	Δ -2.98 -4.52 -5.73 -6.37 -8.13						



BM #2 ELEVATION: 826.52' SET MAG WITH WASHER ELEVATION: 808.79'

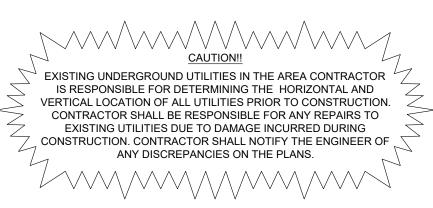




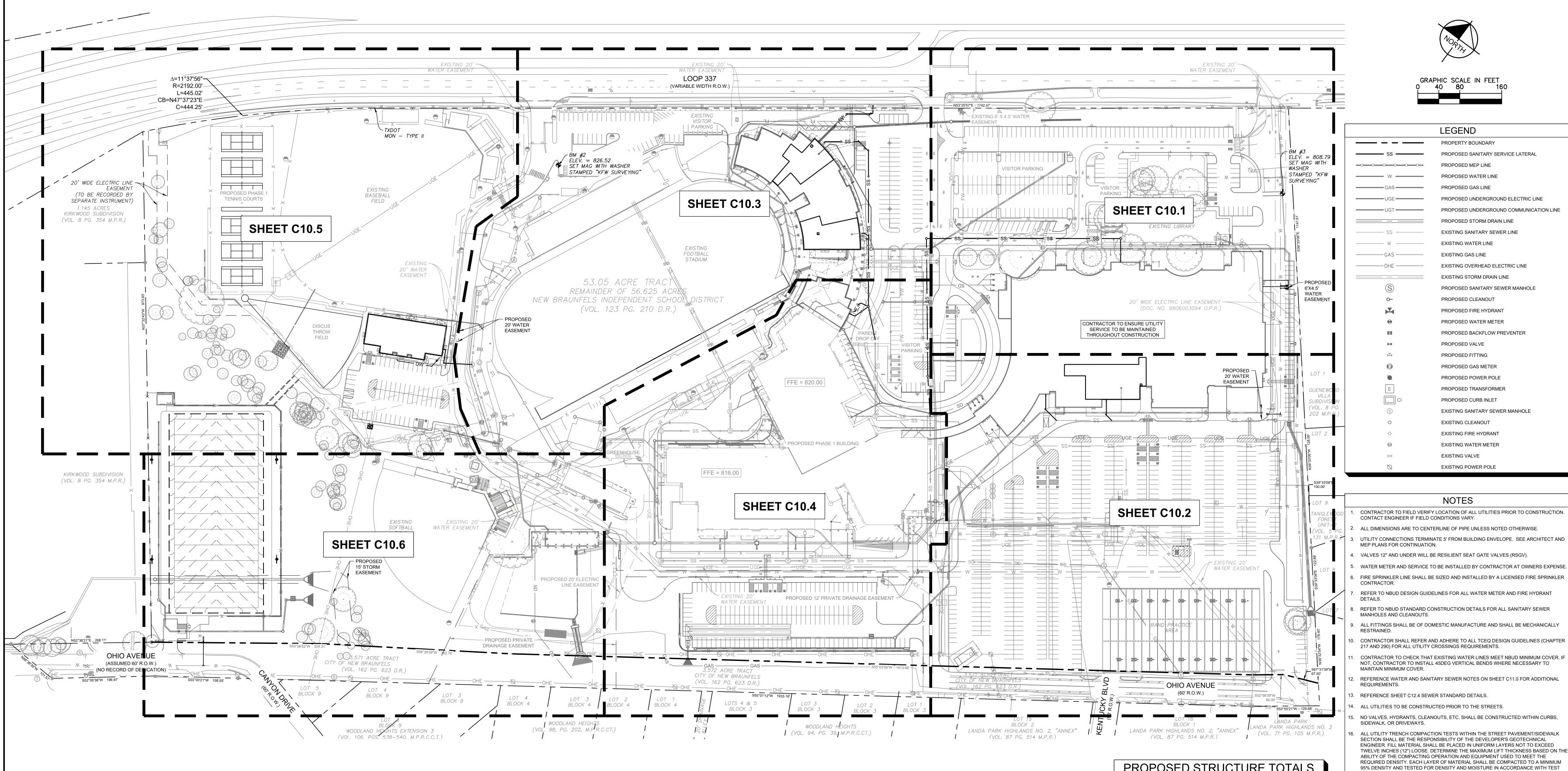


GRATE INLET SIZING				
INLET NAME	Q25	MINIMUM OPEN AREA REQUIRED	GRATE SIZE	
	(CFS)	(SQ. FT.)	(FT.)	
1	0.08	0.0	2x2	
2	0.16	0.1	2x2	
3	0.24	0.1	2x2	
4	0.24	0.1	2x2	
5	0.24	0.1	2x2	
10	0.88	0.4	2x2	
13	0.48	0.2	2x2	
14	0.16	0.1	2x2	
15	0.28	0.1	2x2	
16	1.04	0.5	2x2	
17	1.12	0.6	2x2	
18	1.36	0.7	2x2	
19	1.20	0.6	2x2	
20	1.69	0.9	2x2	
21	1.69	0.9	2x2	
22	0.36	0.2	1x1	
23	0.39	0.2	1x1	
24	0.50	0.3	1v1	

CURB INLET SIZING					
Basin	Q25			Q _{capacity}	
Dasili	(CFS)	(FT.)	(FT.)	(CFS)	
6	5.79	5.31	10.00	10.91	
7	8.28	7.59	10.00	10.91	
8	1.36	1.25	5.00	5.46	
9	1.2	1.10	5.00	5.46	
11	7.49	6.86	10.00	10.91	
12	3.18	2.91	5.00	5.46	







PROPOSED STRUCTURE TOTALS				
SEWER				
STRUCTURE	TOTAL			
WASTEWATER MAINS	1071 LF			
PRIVATE WASTEWATER SERVICES	415 LF			
PRIVATE MANHOLES	4			
PRIVATE CLEANOUTS	16			
WA	WATER			
STRUCTURE	TOTAL			
FIRE HYDRANTS	1			
BACKFLOW PREVENTERS	5			
WATER VALVES	8			
WATER MAINS	0 LF			
8" FIRE SERVICE	332 LF			
6" FIRE SERVICE	26 LF			
4" DOMESTIC SERVICE	67 LF			
3" DOMESTIC SERVICE	90 LF			
2" IRRIGATION SERVICE	55 LF			
2" DOMESTIC METER	1			
2 IRRIGATION METER	1			

SURVEYING FOR THE LOCATION OF THESE BENCHMARKS. ACCORDING TO THE SURVEY, THE ELEVATIONS WERE ESTABLISHED UTILIZING NAVD88 (GEOID 12A)

THE CITY OF NEW BRAUNFELS INSPECTOR.

NBU BACKFLOW PREVENTION SPECIALIST AT 830.608.8880.

NBU BACKFLOW PREVENTION NOTE:

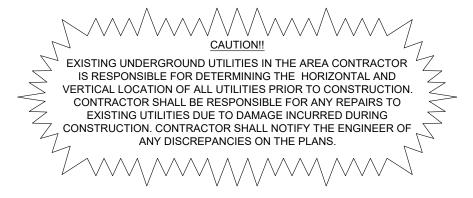
830.608.8880.

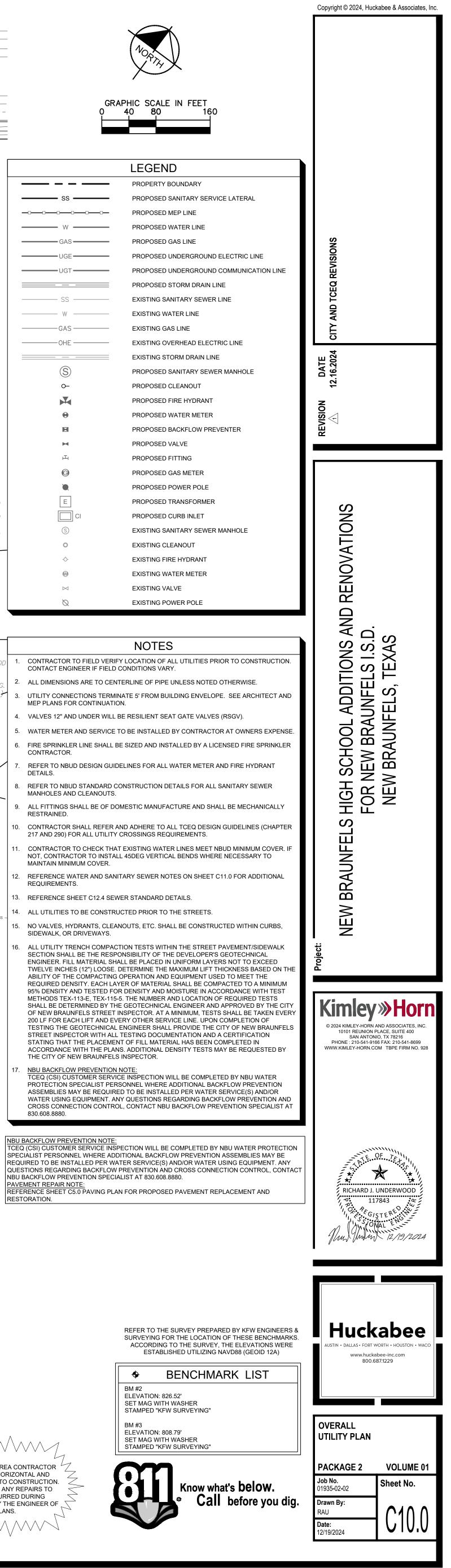
RESTORATION.

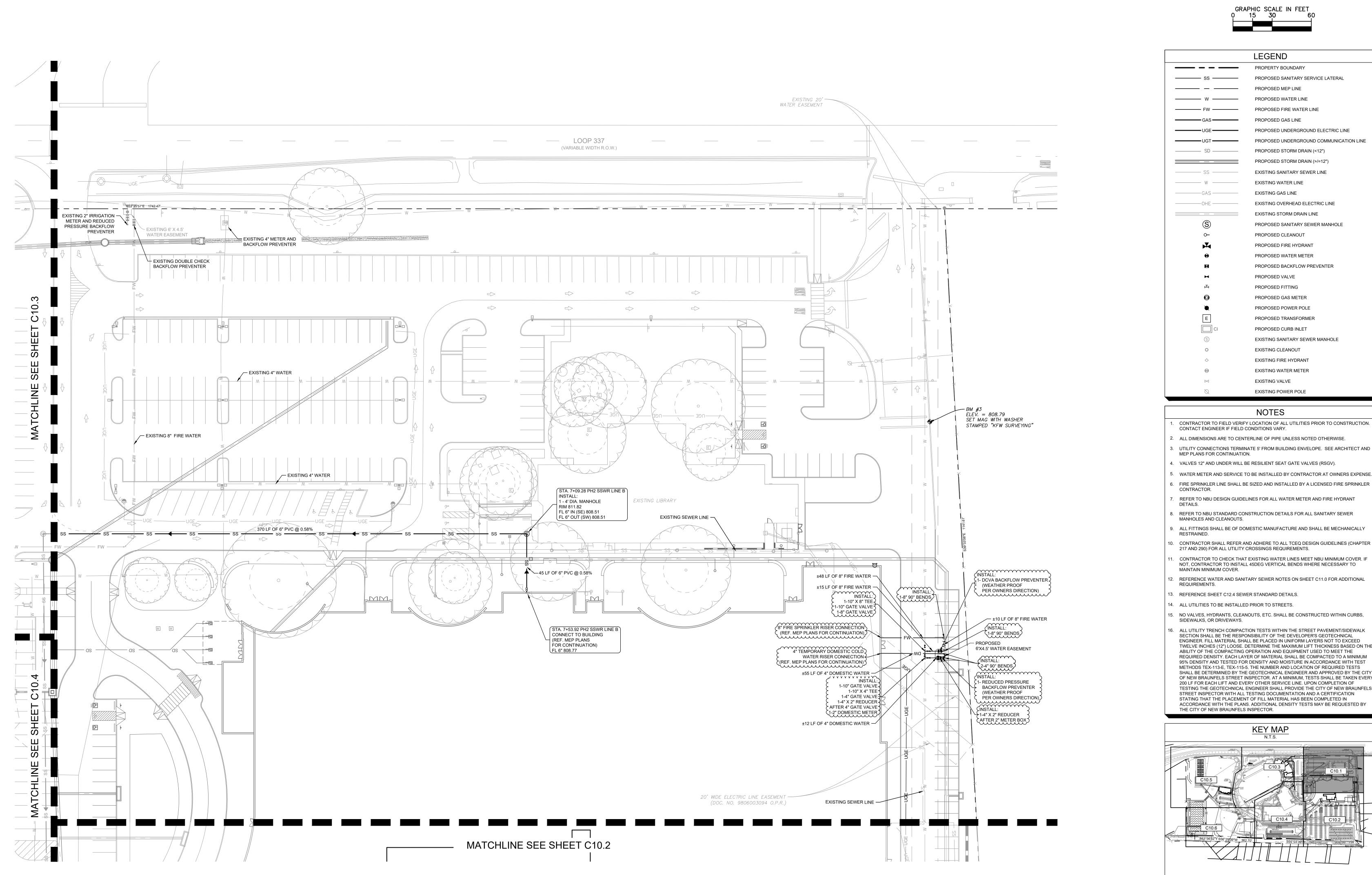
BENCHMARK LIST + BM #2 ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" BM #3 ELEVATION: 808.79' SET MAG WITH WASHER

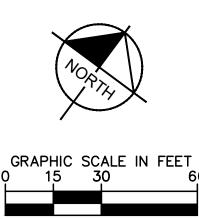
STAMPED "KFW SURVEYING"



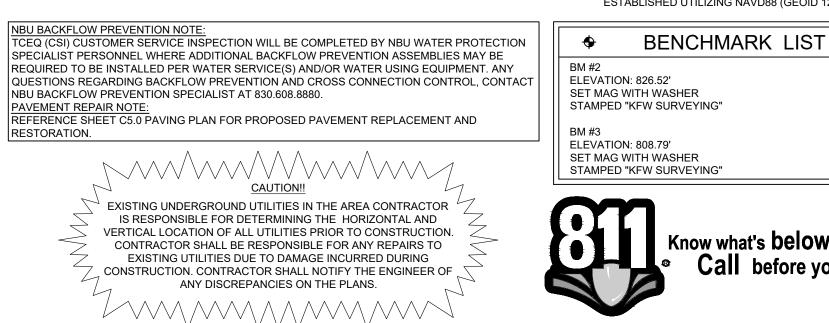


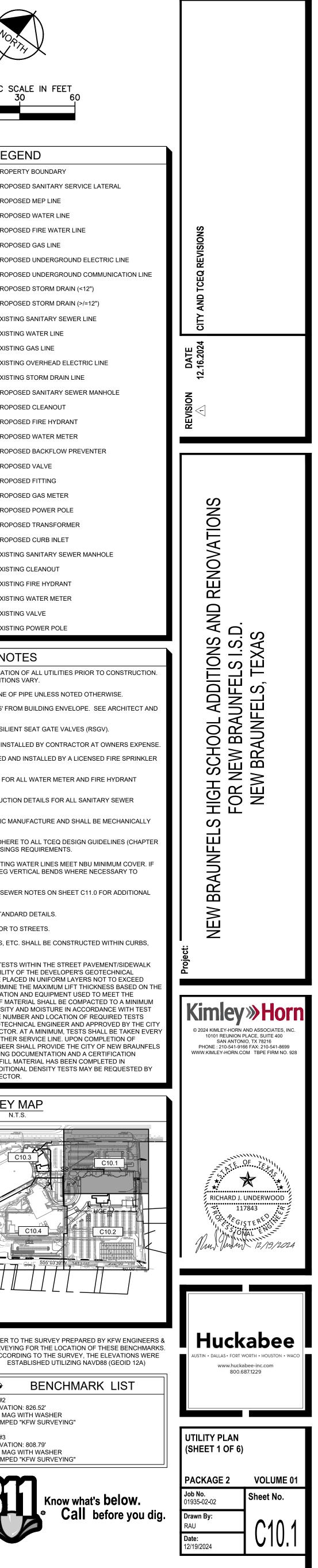




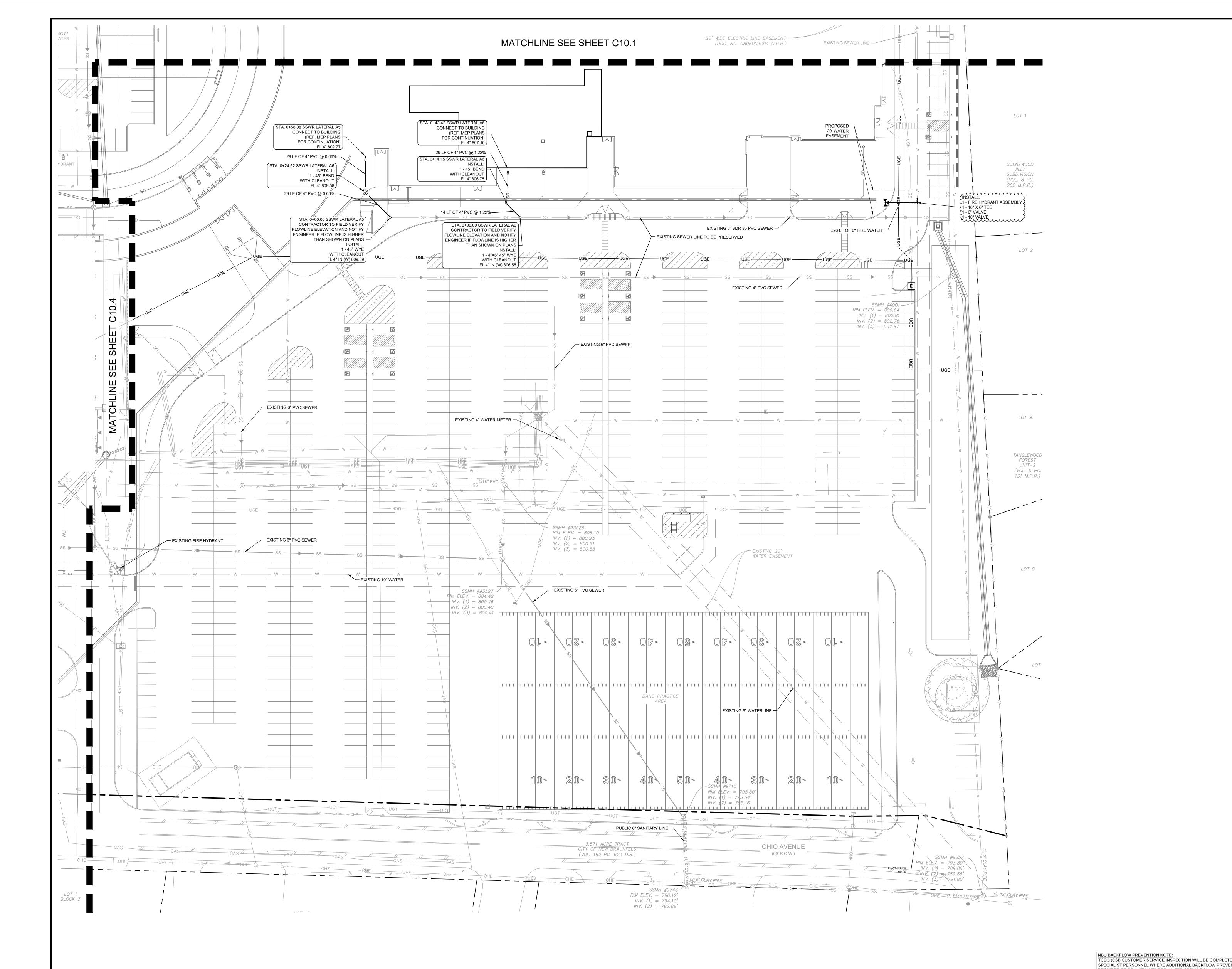


REFER TO THE SURVEY PREPARED BY KFW ENGINEERS & SURVEYING FOR THE LOCATION OF THESE BENCHMARKS. ACCORDING TO THE SURVEY, THE ELEVATIONS WERE





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		NOPTA
	0	GRAPHIC SCALE IN FEET 15 30 60
	SS 	LEGEND PROPERTY BOUNDARY PROPOSED SANITARY SERV PROPOSED MEP LINE PROPOSED MATER LINE PROPOSED FIRE WATER LINE PROPOSED GAS LINE PROPOSED UNDERGROUND PROPOSED UNDERGROUND PROPOSED STORM DRAIN (************************************
	• • ∞ ∞ ∞ ∞ ∞	EXISTING CLEANOUT EXISTING FIRE HYDRANT EXISTING WATER METER EXISTING VALVE EXISTING POWER POLE
	 CONTACT ENGINEER IF FIE 2. ALL DIMENSIONS ARE TO G 3. UTILITY CONNECTIONS TEMEP PLANS FOR CONTINU 4. VALVES 12" AND UNDER W 5. WATER METER AND SERV 6. FIRE SPRINKLER LINE SHACONTRACTOR. 7. REFER TO NBU DESIGN GUDETAILS. 8. REFER TO NBU DESIGN GUDETAILS. 8. REFER TO NBU STANDARE MANHOLES AND CLEANOU 9. ALL FITTINGS SHALL BE OURESTRAINED. 10. CONTRACTOR SHALL REFERINCE SHALL REFERINCE WATER AND SMAINTAIN MINIMUM COVER 11. CONTRACTOR TO CHECK NOT, CONTRACTOR TO INSMAINTAIN MINIMUM COVER 12. REFERENCE WATER AND SREQUIREMENTS. 13. REFERENCE SHEET C12.4 14. ALL UTILITIES TO BE INSTANDARE STORE STALL BE THE RENGINEER. FILL MATERIAL TWELVE INCHES (12") LOO ABILITY OF THE COMPACT REQUIRED DENSITY. EACH 95% DENSITY AND TESTED METHODS TEX-113-E, TEX. SHALL BE DETERMINED BY OF NEW BRAUNFELS STRE 200 LF FOR EACH LIFT AND TESTING THE GEOTECHNI STREET INSPECTOR WITH STATING THAT THE PLACE 	CENTERLINE OF PIPE UNLESS NOTED RMINATE 5' FROM BUILDING ENVELO ATION. VILL BE RESILIENT SEAT GATE VALVE ICE TO BE INSTALLED BY CONTRACT ALL BE SIZED AND INSTALLED BY A LIC UIDELINES FOR ALL WATER METER A D CONSTRUCTION DETAILS FOR ALL S TO CONSTRUCTION DETAILS FOR ALL S TO CONSTRUCTION DETAILS FOR ALL S ITS. F DOMESTIC MANUFACTURE AND SH ER AND ADHERE TO ALL TCEQ DESIG LITY CROSSINGS REQUIREMENTS. THAT EXISTING WATER LINES MEET IN STALL 45DEG VERTICAL BENDS WHEF R. SANITARY SEWER NOTES ON SHEET SEWER STANDARD DETAILS. ALLED PRIOR TO STREETS. CLEANOUTS, ETC. SHALL BE CONSTRUCTS. SHALL BE PLACED IN UNIFORM LAYE SE. DETERMINE THE MAXIMUM LIFT ING OPERATION AND EQUIPMENT US 1 LAYER OF MATERIAL SHALL BE CON THAT EXISTING WATER LINES TREET SPONSIBILITY OF THE DEVELOPERS SHALL BE PLACED IN UNIFORM LAYE SE. DETERMINE THE MAXIMUM LIFT ING OPERATION AND EQUIPMENT US 1 LAYER OF MATERIAL SHALL BE CON CON DENSITY AND MOISTURE IN AC Y THE GEOTECHNICAL ENGINEER AND CON DENSITY AND MOISTURE IN AC Y THE GEOTECHNICAL ENGINEER AND CAL ENGINEER SHALL PROVIDE THE ALL TESTING DOCUMENTATION AND EVERY OTHER SERVICE LINE. UPON CAL ENGINEER SHALL PROVIDE THE ALL TESTING DOCUMENTATION AND EVENY OTHER SERVICE LINE. UPON CAL ENGINEER SHALL PROVIDE THE ALL TESTING DOCUMENTATION AND EVENY OTHER SERVICE LINE. UPON CAL ENGINEER SHALL PROVIDE THE ALL TESTING DOCUMENTATION AND EVENY OTHER SERVICE LINE. UPON CAL ENGINEER SHALL PROVIDE THE ALL TESTING DOCUMENTATION AND EVENY OTHER SERVICE LINE. UPON CAL ENGINEER SHALL PROVIDE THE ALL TESTING DOCUMENTATION AND EVENY OTHER SERVICE LINE. UPON CAL ENGINEER SHALL PROVIDE THE ALL TESTING DOCUMENTATION AND EVENY OTHER SERVICE LINE. UPON CAL ENGINEER SHALL PROVIDE THE ALL TESTING DOCUMENTATION AND EVENY OTHER SERVICE LINE. UPON CAL ENGINEER SHALL PROVIDE THE ALL TESTING DOCUMENTATION AND EVENY OTHER SERVICE LINE. UPON CAL ENGINEER SHALL PROVIDE THE ALL TESTING DOCUMENTATION AND EVENY OTHER SERVICE LINE. UPON CAL ENGINEER SHALL PROVIDE THE
NBU BACKFLOW PREVENTION NOTE: TCEQ (CSI) CUSTOMER SERVICE INSPECTION WILL BE COMPLE SPECIALIST PERSONNEL WHERE ADDITIONAL BACKFLOW PRE REQUIRED TO BE INSTALLED PER WATER SERVICE(S) AND/OR QUESTIONS REGARDING BACKFLOW PREVENTION AND CROSS NBU BACKFLOW PREVENTION SPECIALIST AT 830.608.8880. PAVEMENT REPAIR NOTE:	VENTION ASSEMBLIES MAY BE WATER USING EQUIPMENT. ANY	REFER TO THE SURVEY PREPA SURVEYING FOR THE LOCATIO ACCORDING TO THE SURVEY ESTABLISHED UTILIZING BM #2 ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING"

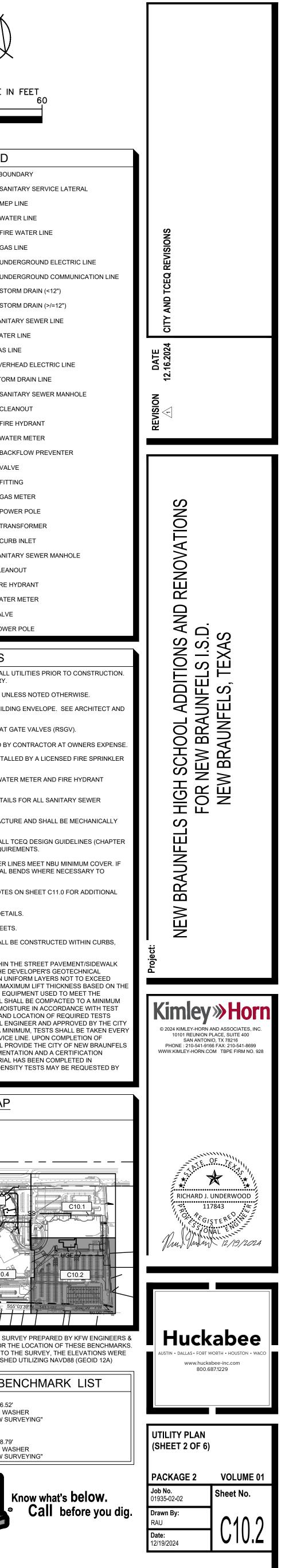
REFERENCE SHEET C5.0 PAVING PLAN FOR PROPOSED PAVEMENT REPLACEMENT AND RESTORATION. CAUTION!! $^{\downarrow}$ Existing underground utilities in the area contractor $^{\downarrow}$ IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING $_{
m construction.}$ contractor shall notify the engineer of $_{
m c}$ $^{
m c}$ ANY DISCREPANCIES ON THE PLANS.



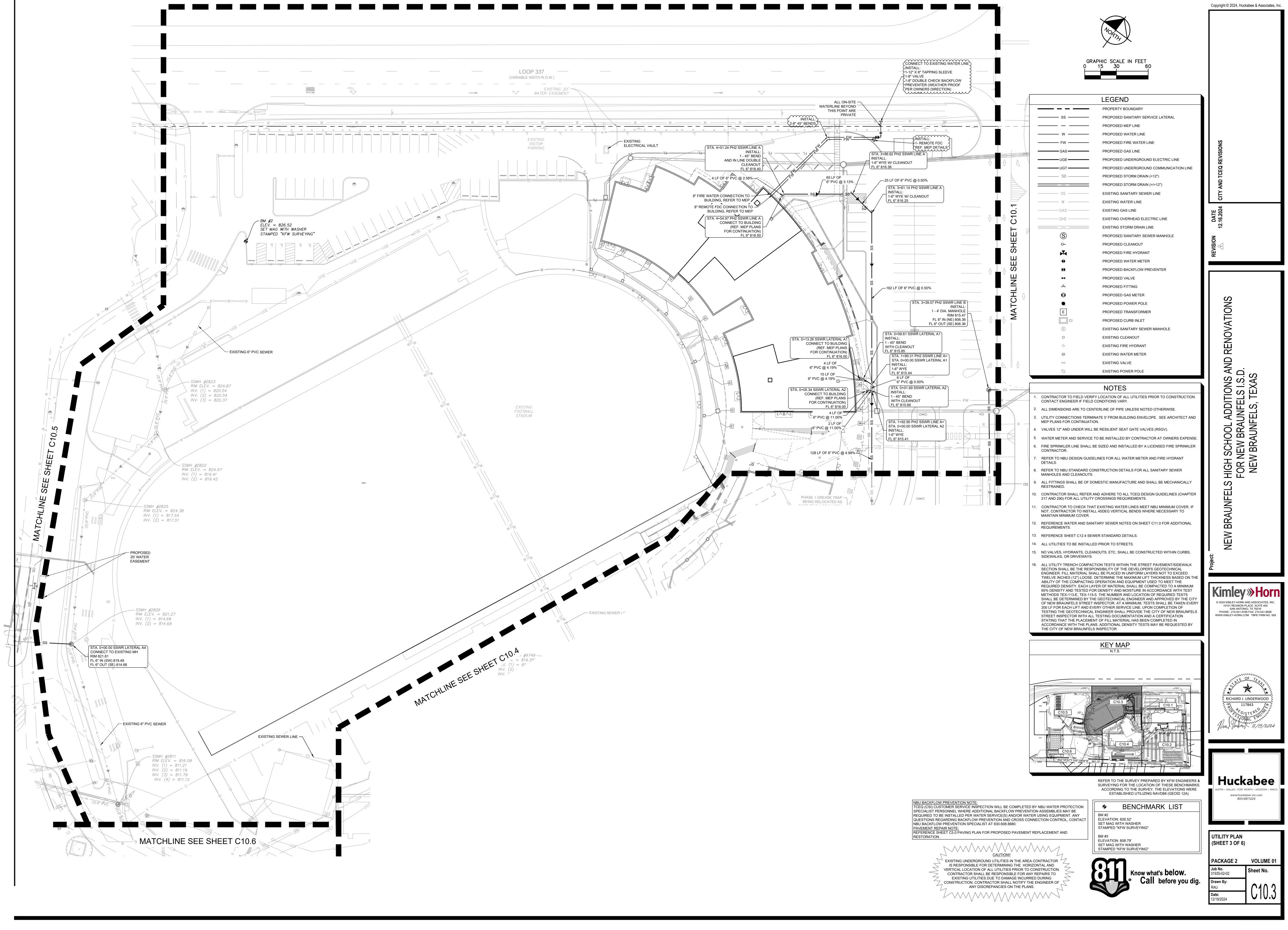
ELEVATION: 808.79'

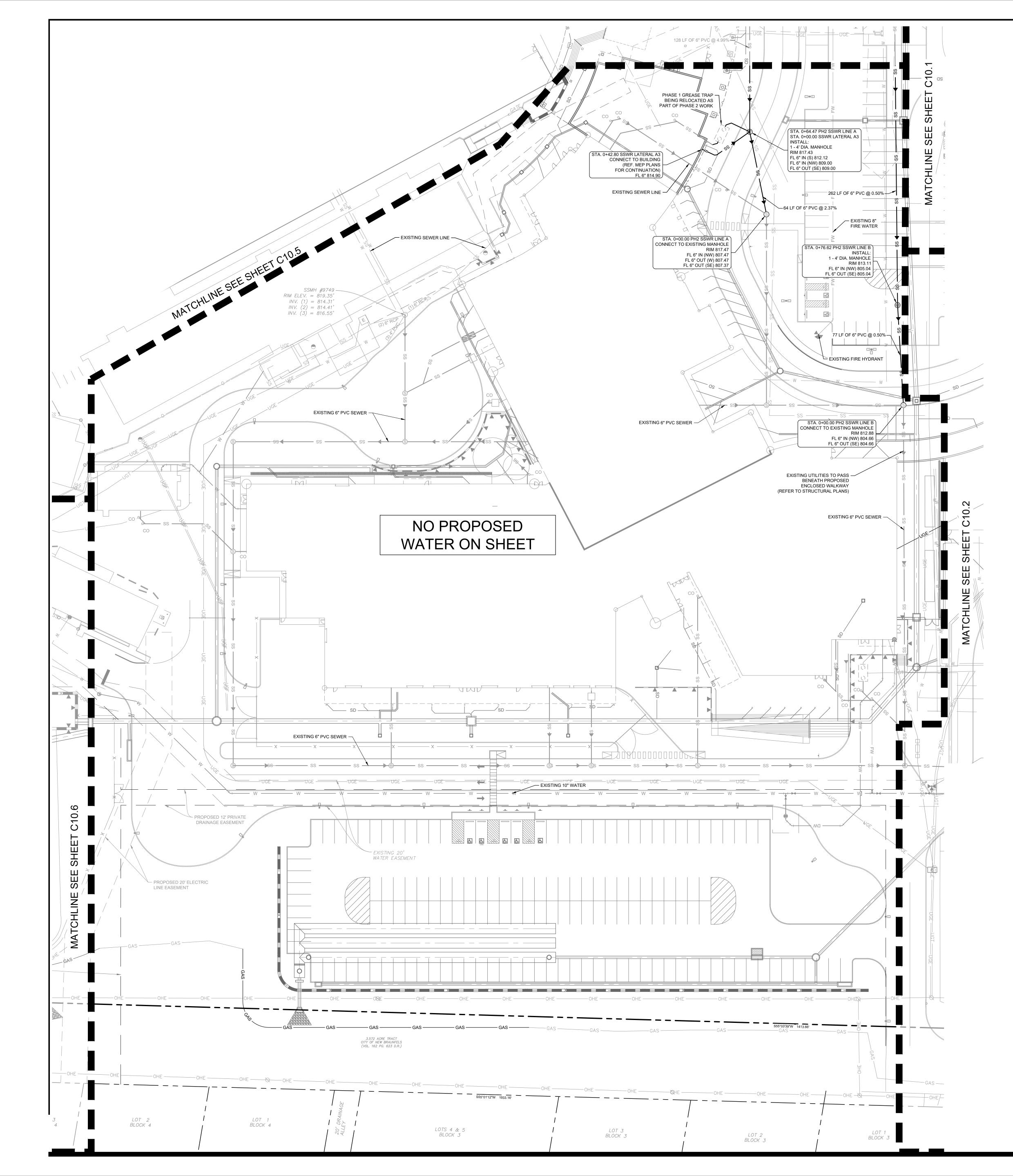
SET MAG WITH WASHER

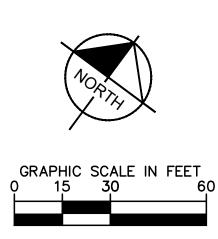
BM #3



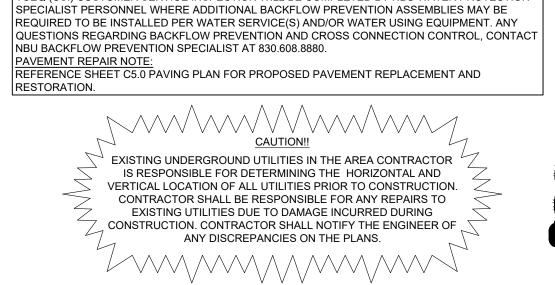
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		LEGEND
		PROPERTY BOUNDARY
	ss	- PROPOSED SANITARY SE
		- PROPOSED MEP LINE
	w	PROPOSED WATER LINE
	FW	PROPOSED FIRE WATER
	GAS	PROPOSED GAS LINE
	UGT	
	SD	— PROPOSED STORM DRAIL
	SS	EXISTING SANITARY SEW
	W	EXISTING WATER LINE
	GAS	
	OHE	EXISTING OVERHEAD ELE
	S	PROPOSED SANITARY SE
	~ ~	PROPOSED CLEANOUT
		PROPOSED FIRE HYDRAN
	•	PROPOSED WATER METE
	×	PROPOSED WATER METE
	N	PROPOSED VALVE
	ц	PROPOSED FITTING
	G	PROPOSED GAS METER
	<u>×</u>	PROPOSED POWER POLE
	E	PROPOSED TRANSFORM
	CI	PROPOSED CURB INLET
	S	EXISTING SANITARY SEV
	0	EXISTING CLEANOUT
	-\$-	EXISTING FIRE HYDRAN
	•	EXISTING WATER METER
	\bowtie	EXISTING VALVE
	Ø	EXISTING POWER POLE
_		
		NOTES
1	. CONTRACTOR TO FIELD CONTACT ENGINEER IF F	VERIFY LOCATION OF ALL UTILITIES
		IELD CONDITIONS VARY.
		ERMINATE 5' FROM BUILDING ENVE
	MEP PLANS FOR CONTIN	
4	. VALVES 12" AND UNDER	WILL BE RESILIENT SEAT GATE VAL
5	5. WATER METER AND SER	VICE TO BE INSTALLED BY CONTRA
6		ALL BE SIZED AND INSTALLED BY A
	CONTRACTOR.	
7	 REFER TO NBU DESIGN (DETAILS. 	GUIDELINES FOR ALL WATER METER
8	3. REFER TO NBU STANDAF	D CONSTRUCTION DETAILS FOR A
	MANHOLES AND CLEANC	
9	 ALL FITTINGS SHALL BE RESTRAINED. 	OF DOMESTIC MANUFACTURE AND
10		FER AND ADHERE TO ALL TCEQ DE
1		
	,	
11	. CONTRACTOR TO CHECH	THAT EXISTING WATER LINES ME
11	. CONTRACTOR TO CHECH	THAT EXISTING WATER LINES ME ISTALL 45DEG VERTICAL BENDS W
	CONTRACTOR TO CHECH NOT, CONTRACTOR TO IN MAINTAIN MINIMUM COVE	K THAT EXISTING WATER LINES ME NSTALL 45DEG VERTICAL BENDS W ER.
12	 CONTRACTOR TO CHECH NOT, CONTRACTOR TO IN MAINTAIN MINIMUM COVE REFERENCE WATER AND REQUIREMENTS. 	K THAT EXISTING WATER LINES ME NSTALL 45DEG VERTICAL BENDS W ER.
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BM #2

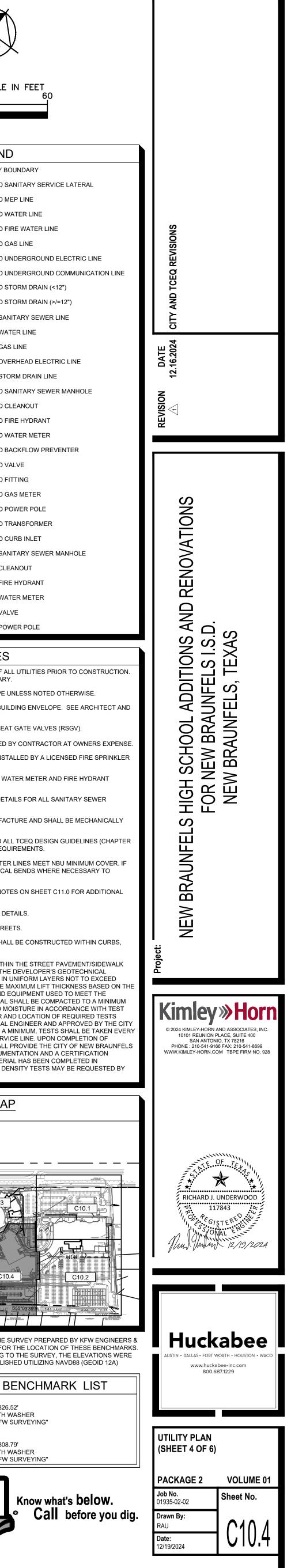
BM #3

ELEVATION: 826.52' SET MAG WITH WASHER

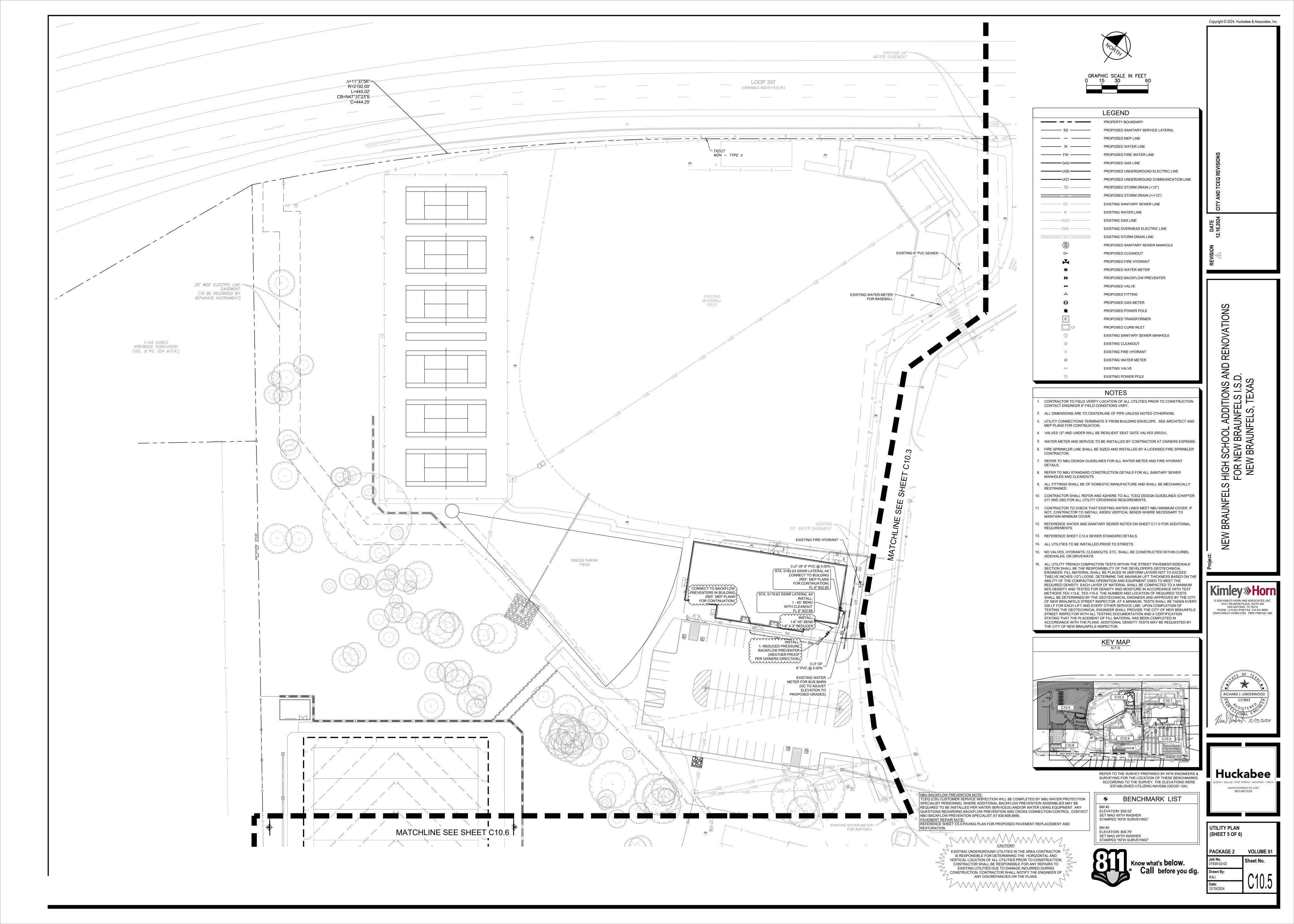
ELEVATION: 808.79'

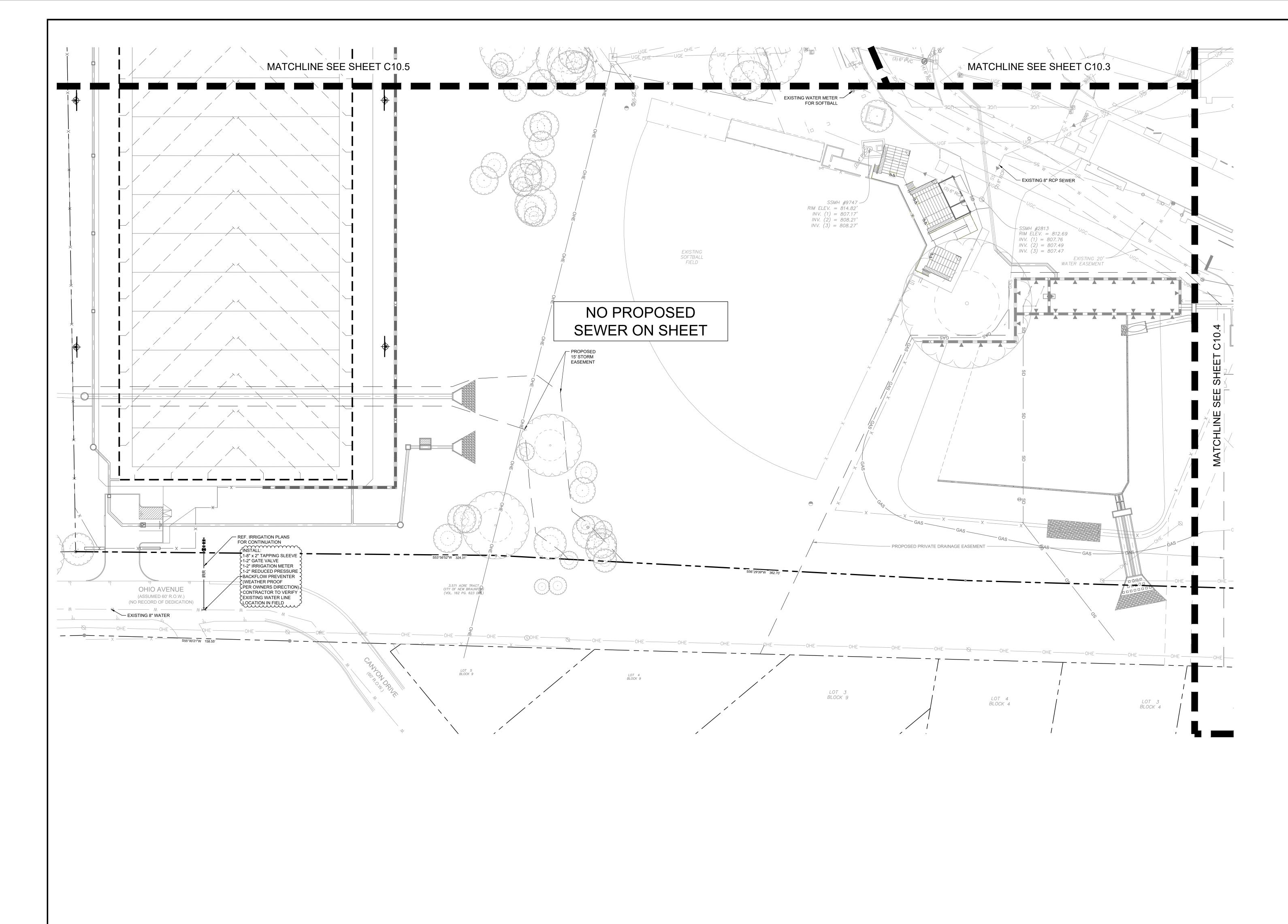
SET MAG WITH WASHER STAMPED "KFW SURVEYING"

STAMPED "KFW SURVEYING"



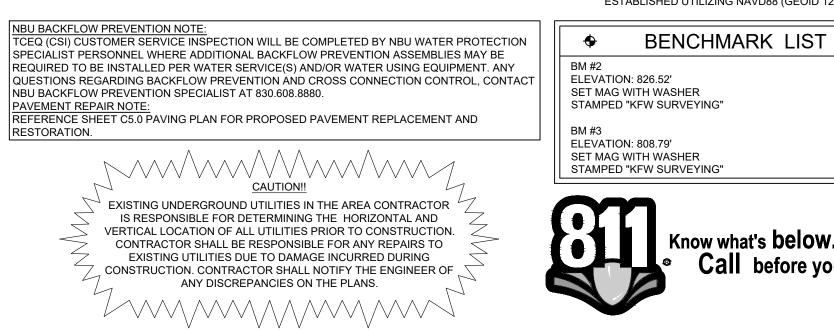
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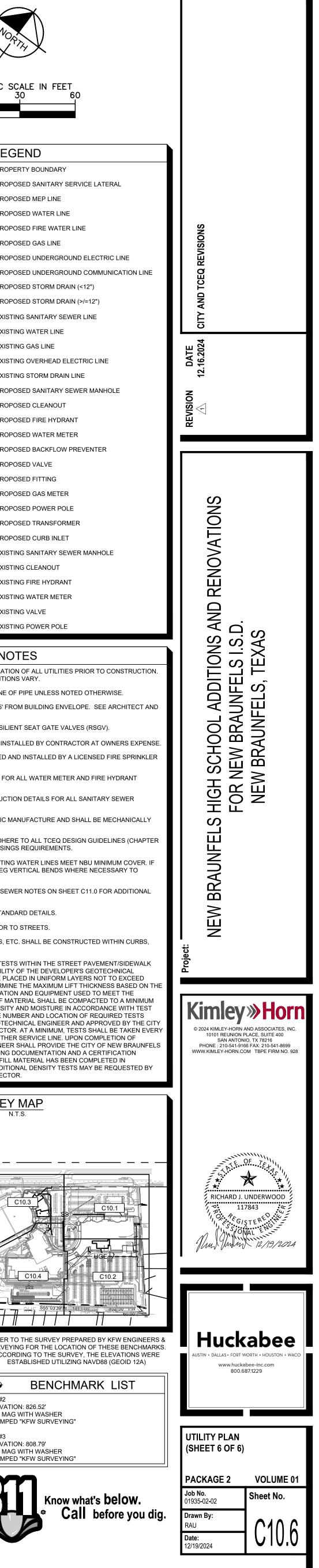




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	LEGEND
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SS	PROPOSED SANITARY SERVICE
	PROPOSED MEP LINE
W	PROPOSED WATER LINE
FW	PROPOSED FIRE WATER LINE
GAS	PROPOSED GAS LINE
UGT	PROPOSED UNDERGROUND CO
SD	PROPOSED STORM DRAIN (<12"
	PROPOSED STORM DRAIN (>/=1
SS	EXISTING SANITARY SEWER LIN
W	EXISTING WATER LINE
GAS	EXISTING GAS LINE EXISTING OVERHEAD ELECTRIC
	EXISTING STORM DRAIN LINE
S	PROPOSED SANITARY SEWER N
0-	PROPOSED CLEANOUT
	PROPOSED FIRE HYDRANT
•	PROPOSED WATER METER
	PROPOSED BACKFLOW PREVEN
д	PROPOSED FITTING
Ø	PROPOSED GAS METER
X	PROPOSED POWER POLE
Ε	PROPOSED TRANSFORMER
CI	PROPOSED CURB INLET
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@	EXISTING WATER METER
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REFER TO THE SURVEY PREPARED BY KFW ENGINEERS & SURVEYING FOR THE LOCATION OF THESE BENCHMARKS. ACCORDING TO THE SURVEY, THE ELEVATIONS WERE

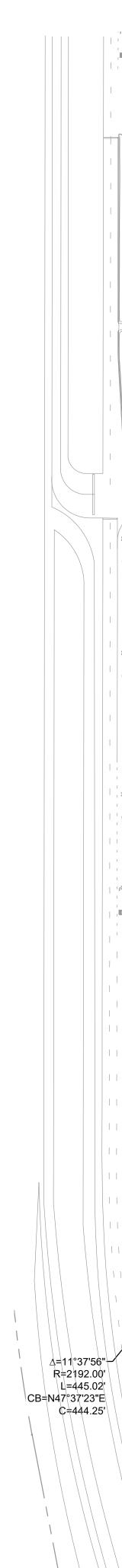




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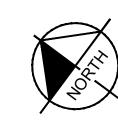


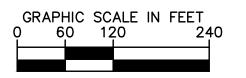
PROPOSED PERVIOUS AREA ± 698,937 SF

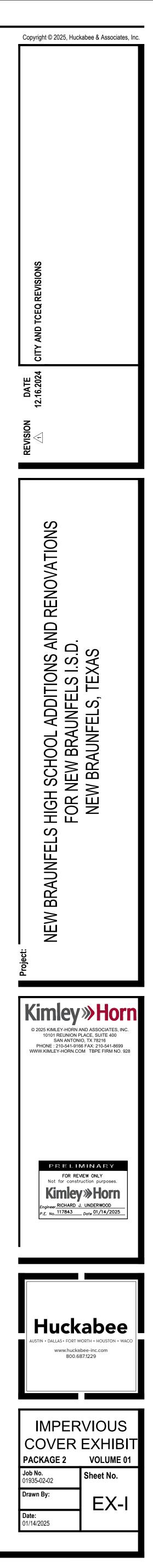




PROPOSED PERVIOUS AREA ± 535,345 SF









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

1	Parl Mc Larty
	Print Name
	CF0
	Title - Owner/President/Other
of New Brann	Sels ISD
	Corporation/Partnership/Entity Name
have authorized	Richard Underwood, P.E.

Print Name of Agent/Engineer

of Kimley-Horn & Associates

Print Name of Firm

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

I also understand that:

- 1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
- 2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
- 3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
- 4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

4/16/24 Date

THE STATE S County of 8

BEFORE ME, the undersigned authority, on this day personally appeared _____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 day of NOTAR PUR BRENDA GARRETT My Notary ID # 131245516 Drende Expires August 10, 2025 Typed or Printed Name of Notary MY COMMISSION EXPIRES:

Application Fee Form

Texas Commission on Environme	ntal Quality				
Name of Proposed Regulated Entit	Name of Proposed Regulated Entity: <u>New Braunfels High School Phase 2</u>				
Regulated Entity Location: 2551 TX 337 Loop New Braunfels Tx					
Name of Customer: New Braunfels	<u>s ISD</u>				
Contact Person: Joseph Mansfield Phone: (840)643-5700					
Customer Reference Number (if issued):CN <u>600397814</u>					
Regulated Entity Reference Numb	er (if issued):RN <u>102402</u>	<u>526</u>			
Austin Regional Office (3373)					
Hays	Travis	🗌 Wil	liamson		
San Antonio Regional Office (3362	2)				
Bexar	Medina	Uva	alde		
🖂 Comal	Kinney				
Application fees must be paid by c	heck, certified check, o	r money order, payable	e to the Texas		
Commission on Environmental Qu	Jality . Your canceled ch	neck will serve as your	receipt. This		
form must be submitted with you	ir fee payment . This pa	yment is being submit	ted to:		
Austin Regional Office	🔀 Sa	n Antonio Regional Of	fice		
Mailed to: TCEQ - Cashier] Mailed to: TCEQ - Cashier				
Revenues Section	12100 Park 35 Circle				
Mail Code 214	Building A, 3rd Floor				
P.O. Box 13088	Αι	ustin, TX 78753			
Austin, TX 78711-3088	(5	12)239-0357			
Site Location (Check All That App	y):				
Recharge Zone	Contributing Zone	🗌 Transit	ion Zone		
Type of Pla	ın	Size	Fee Due		
Water Pollution Abatement Plan,	Contributing Zone				
Plan: One Single Family Resident	al Dwelling	Acres	\$		
Water Pollution Abatement Plan,	Contributing Zone				
Plan: Multiple Single Family Resid	lential and Parks	Acres	\$		
Water Pollution Abatement Plan,	Contributing Zone				
Plan: Non-residential		53.05 Acres	\$ 8,000		
Sewage Collection System		L.F.	\$		
Lift Stations without sewer lines		Acres	\$		
Underground or Aboveground St	orage Tank Facility	Tanks	\$		
Piping System(s)(only)		Each	\$		
Exception					
Extension of Time		Each Each	\$ \$		

Signature: Mul Aman

Date: 01-14-2025

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

	Project Area in	
Project	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,	< 1	\$3,000
institutional, multi-family residential, schools, and	1 < 5	\$4,000
other sites 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



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

			nation								
		sion (If other is a	•			•	,				
New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)											
Renewal (Core Data Form should be submitted with the renewal form)						m)		Other			
2. Customer Reference Number (if issued)				Follow this link to search		3. R	egulate	d Entity Referenc	e Number (if issued)	
CN 6003	97814			for CN or RN numbers in Central Registry**			RN 102402526				
SECTION	II: Cu	stomer Info	ormation								
4. General Co	ustomer I	nformation	5. Effective	e Date f	or Custom	er Info	rmatic	on Upda	ates (mm/dd/yyyy)		
New Cust		me (Verifiable wit		•	to Custome y of State o				Change in of Public Accounts)	•	Entity Ownership
	-								,		active with the
		f State (SOS)	-	-			-				
	•	me (If an individua		•					Sustomer, enter prev	ious Custom	er below:
NBISD											
7. TX SOS/CI	PA Filing	Number	8. TX State	e Tax ID (11 digits) 9. Fede			ral Tax ID (9 digits)	10. DUN	S Number (if applicable)		
01531506	01		1742923	7443							
11. Type of C	Customer:	: Corporat	ion		🗌 Indiv	lividual Partnership: General Limited					
Government:	🛛 City 🗌	County 🗌 Federal [] State 🔲 Othe	r	Sole Sole	Proprie	etorship 🗌 Other:				
12. Number of			_				13. Independently Owned and Operated?				
0-20	21-100	101-250	251-500	\bowtie	501 and hig	gher		Yes	No No		
14. Custome	r Role (Pr	oposed or Actual) -	– as it relates to	the Reg	ulated Entity	listed o	on this f	form. Ple	ase check one of the	following	
Owner		🗌 Opera			Owner	•			_		
	nal Licens	ee 🗌 Respo	onsible Party		Volunta	ary Cle	anup A	Applicar	it Other:		
	11171	N Academy A	Ave								
15. Mailing Address:											
	City New Braunfels		St	tate T2	X	ZIP	ZIP 781320		ZIP + 4		
16. Country Mailing Information (if outside USA) 17. E-Mail Address (if applicable)						•					
18. Telephone Number				19. Ex	tension o	r Code	ļ		20. Fax Numbe	r (if applical	ble)
() -											

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 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.)

New Braunfels High School Phase 2

23. Street Address of												
the Regulated Entity:	2551	Tx 337 Loop)									
(No PO Boxes)	City	New Braunfel	s	State	TX		ZIP	7813	0	ZIP +	4	
24. County	Coma	l		•						•		
		Enter Physical	Loca	tion Descripti	on if no	o stree	et addres	s is prov	vided.			
25. Description to Physical Location:												
26. Nearest City								State			Near	est ZIP Code
27. Latitude (N) In Decim	al:	29.7178	60		2	28. Lo	ngitude (\	W) In De	cimal:	-98.15	5354	40
Degrees	Minutes		Seco	onds	D	Degrees		١	Vinutes			Seconds
29	43			4.296		98 9			9		12.744	
29. Primary SIC Code (4	digits) 3	0. Secondary S	IC Co	de (4 digits)	31. Pr (5 or 6		NAICS C	ode	32. S (5 or 6	econdary digits)	NAI	CS Code
8211 9903				611110								
33. What is the Primary	Business	s of this entity?	(Do r	not repeat the SIC	or NAICS	S descri	ption.)					
High School												
	2551 Loop 337											
34. Mailing	-											
Address:	City	New Brau	unfel	^s State	ТХ	X	ZIP	781	30	ZIP +	- 4	8502
35. E-Mail Address:		dstoker@n	bisd.	org								
36. Telepho	ne Numl	ber	_	37. Extensio	on or Co	ode		38	3. Fax Nu	mber <i>(if a</i>	ppli	cable)
(840) 6	43 - 5700								() -		
9. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this orm. See the Core Data Form instructions for additional guidance.												
Dam Safety				🗹 Edwards Aqu	Aquifer Emissions Inventory Air				tory Air	Industrial Hazardous Waste		
Municipal Solid Waste	New New	v Source Review A	ir [OSSF			Petrole	um Stora	ge Tank	D PWS	3	
Sludge	Sludge Storm Water Title V Air					Tires			Use	d Oil		

SECTION IV: Preparer Information

U Waste Water

40. Name:	me: Richard Underwood				Project Engineer		
42. Tele	phone Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address		
(210)	541-9166		() -	richard.underwood@kimley-horn.com			

Wastewater Agriculture

Water Rights

Other:

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:	Kimley-Horn	Job Title:	Project		
Name (In Print):	Richard Underwood			Phone:	(210) 541-9166

Voluntary Cleanup

Signature:	New Hondant	Date:	01/14/2025
	y ·		