



TCEQ Contributing Zone Plan (CZP) Exception Application

For

1401 Toro Grande Boulevard
Leander, Williamson County, Texas

Prepared for:

Glen Lietzke – Junior Volleyball Association of Austin
425 Woodward Street
Austin, Texas 78704

Prepared by:

Mahoney Engineering, LLC
9501 Menchaca Road, Suite B200
Austin, Texas 78748

TBPELS # F-21222
July 10, 2024

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

Technical Review

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

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: Junior Volleyball Association of Austin					2. Regulated Entity No.: 106621881				
3. Customer Name: Glen Lietzke					4. Customer No.: 603247933				
5. Project Type: (Please circle/check one)	New		Modification		Extension		Exception		
6. Plan Type: (Please circle/check one)	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential		Non-residential			8. Site (acres):		3.75	
9. Application Fee:	\$500.00		10. Permanent BMP(s):			Sedimentation/Filtration Pond			
11. SCS (Linear Ft.):			12. AST/UST (No. Tanks):						
13. County:	Williamson		14. Watershed:			Brushy Creek			

Application Distribution

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

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

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

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

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

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

Daniel Mahoney

Print Name of Customer/Authorized Agent

7/10/2024

Signature of Customer/Authorized Agent

Date

****FOR TCEQ INTERNAL USE ONLY****

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

Contributing Zone Exception Request Form

Texas Commission on Environmental Quality

for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), Effective June 1, 1999

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

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

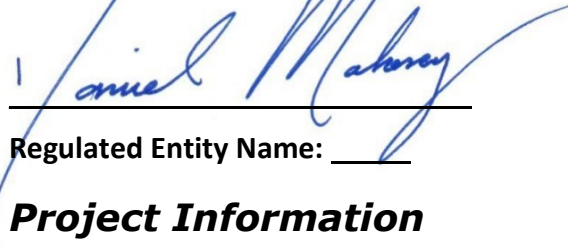
Signature

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

Print Name of Customer/Agent: Daniel Mahoney

Date: 06/24/2024

Signature of Customer/Agent:



Regulated Entity Name: _____

Project Information

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

Contact Person: Glen Lietzke

Entity: Junior Volleyball Association of Austin

Mailing Address: 425 Woodward Street

City, State: Austin, Texas

Telephone: 512-433-5110

Email Address: glen@austinsportscenter.com

Zip: 78704

Fax: _____

5. Agent/Representative (If any):

Contact Person: Daniel Mahoney

Entity: Mahoney Engineering

Mailing Address: 9501 Menchaca Road

City, State: Austin, Texas

Zip: 78748

Telephone: 737-289-9546

Fax: _____

Email Address: rsteinbach@mahoneyeng.com

6. Project Location

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

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

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

7. ☒ The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

Austin Sports Center Sand Complex, 1401 Toro Grande Boulevard, Cedar Park, Austin, TX 78613

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

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

☒ Project site boundaries.

☒ USGS Quadrangle Name(s).

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

☒ Area of the site

☐ Offsite areas

☒ Impervious cover

☒ Permanent BMP(s)

☒ Proposed site use

☒ Site history

☒ Previous development

☐ Area(s) to be demolished

11. Existing project site conditions are noted below:

☒ Existing commercial site

☐ Existing industrial site

☐ Existing residential site

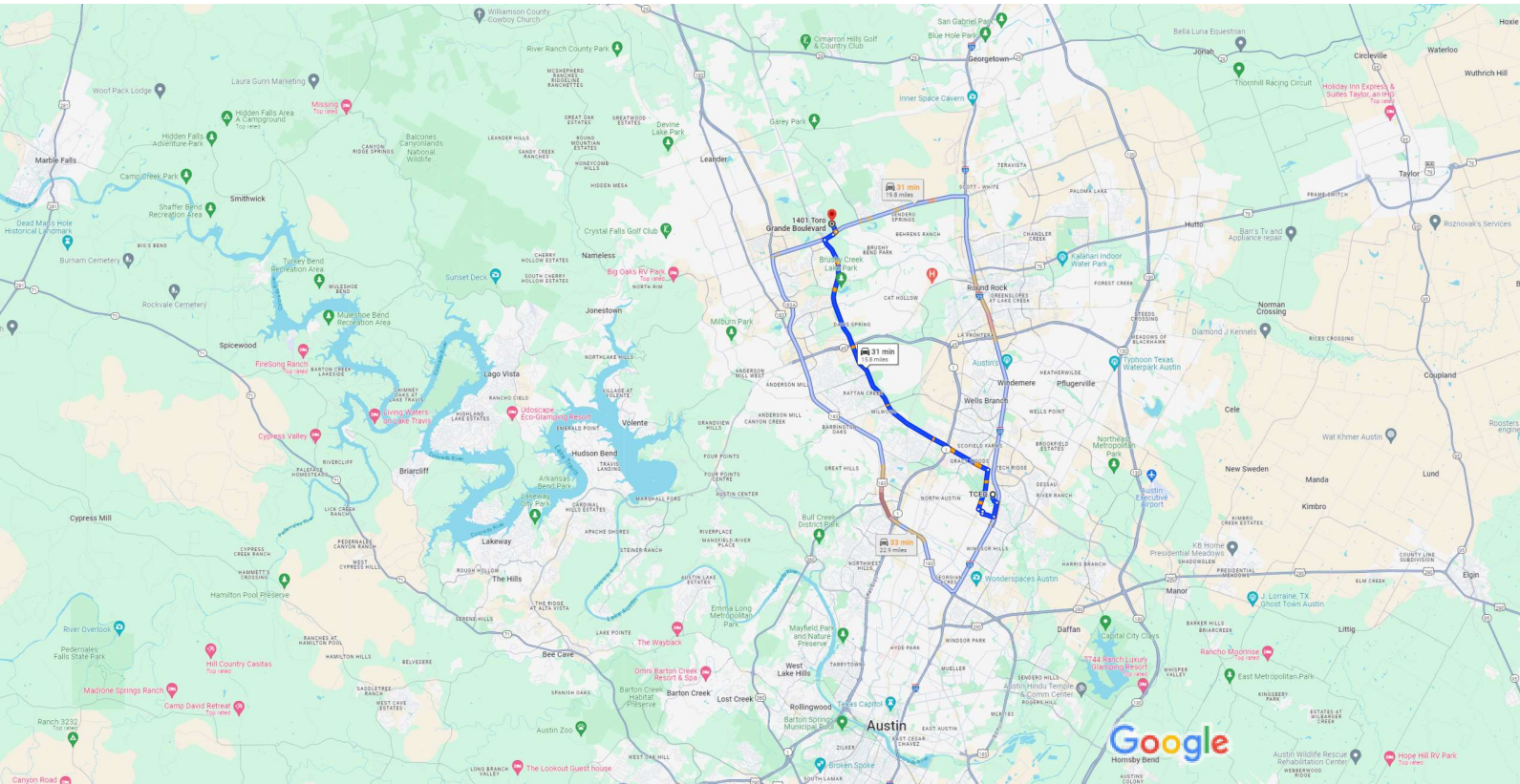
- ☒ Existing paved and/or unpaved roads
- ☐ Undeveloped (Cleared)
- ☐ Undeveloped (Undisturbed/Not cleared)
- ☐ Other: _____

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

Administrative Information

14. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.
15. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

Attachment A - Road Map



Map data ©2024 Google 2 mi

TCEQ
12100 Park 35 Cir, Austin, TX 78753

Take Park 35 Cir to S I-35 Frontage Rd

- ↑

1. Head west toward Park 35 Cir

466 ft
- ↪

2. Turn right onto Park 35 Cir

0.3 mi

Drive from W Parmer Ln to Cedar Park

- ↪

3. Use the right lane to turn right onto S I-35 Frontage Rd


0.5 mi
- ↪

4. Turn right onto Covington Dr E


0.5 mi
- ↪

5. Turn right onto Hornsby St


0.1 mi

- 


6. Continue straight onto W Caddo St


0.2 mi
- 

7. Turn right onto TX-275 Loop N/N Lamar Blvd

1.6 mi
- 

8. Use the left 2 lanes to turn left onto W Parmer Ln


 [Pass by Taco Bell \(on the right in 8.1 mi\)](#)

11.6 mi
- 


9. Turn right onto E Whitestone Blvd

0.4 mi


Take Toro Grande Blvd to your destination

- 2 min (0.5 mi)
- 


10. Turn left

0.1 mi
- 


11. Turn left onto Toro Grande Blvd

0.3 mi
- 


12. Turn left

105 ft
- 

13. Turn left

52 ft
- 

14. Turn right

 [Destination will be on the right](#)

82 ft

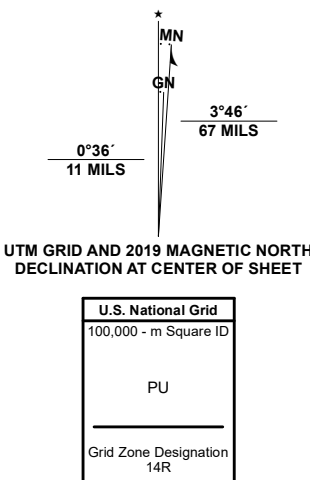
1401 Toro Grande Blvd
Leander, TX 78641



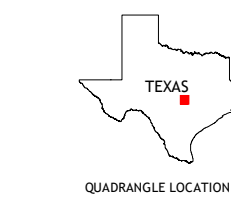
Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid/Universal Transverse Mercator, Zone 14R.
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2002 - 2020
Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file
Wetlands.....FWS National Wetlands Inventory Not Available



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard.



1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES

1 Liberty Hill
2 Leander NE
3 Georgetown
4 Nameless
5 Round Rock
6 Mansfield Dam
7 Jollyville
8 Pflugerville West

ROAD CLASSIFICATION	
Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

LEANDER, TX
2022





Project Narrative

June 24, 2024

Attention: Texas Commission on Environmental Quality (TCEQ)
12100 Park 35 Cir,
Austin, TX 78753

Reference: Contributing Zone Exception (CZP) Request
EAPP ID No. 11-13031101
1401 Toro Grande Boulevard
Cedar Park, Williamson County, Texas 78613

To Whom It May Concern,

On behalf of the Junior Volleyball Association of Austin, Mahoney Engineering has prepared this Contributing Zone Exception Request for ASC Brassfield SD-13-00005. This project will be located on a 3.75-acre site at 1401 Toro Grande Boulevard in Leander, Williamson County, Texas. This Exception Request is for a Site Plan Revision proposing changes to the minor grading of the site as well as minimal impervious cover additions for the purposes of providing an additional nine (9) parking spaces on site. This site was originally developed in 2013 and the existing site use, Sports Facility, will not be changing with this revision.

The total existing and originally entitled impervious cover is 1.625-acres; however, the proposed additions will increase the impervious cover of the site to a total of 1.665-acres. The existing partial Sedimentation / Filtration Pond was designed and constructed with a five (5) percent impervious cover buffer for future use per note under Proposed Drainage Calculations Table on sheet five (5) of the original approved plans. No offsite areas drain into this pond.

Per the attached TCEQ Approval Letter, EAPP ID No. 11-13031101, the Total Suspended Solids (TSS) treatment requirement was calculated based on 1.875-acres of impervious cover, however as previously noted existing impervious cover is 1.625-acres and the proposed increase is 1.665-acres of impervious cover. Therefore, the existing Pollution Abatement Measures are sufficient and no revisions to the permanent BMP's are needed.

If you have any questions, please do not hesitate to contact our office.

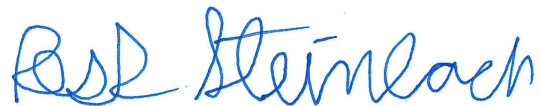
Sincerely,

MAHONEY ENGINEERING


Daniel M. Mahoney, P.E.
President & CEO | Principal

Phone: (512) 596-2579

dmahoney@mahoneyeng.com



Ross Steinbach, E.I.T.

Engineer Associate I

Phone: (737) 289-9546

rsteinbach@mahoneyeng.com



Nature of Exception

June 24, 2024

Attention: Texas Commission on Environmental Quality (TCEQ)
12100 Park 35 Cir,
Austin, TX 78753

Reference: Contributing Zone Exception (CZP) Request
EAPP ID No. 11-13031101
1401 Toro Grande Boulevard
Cedar Park, Williamson County, Texas 78613

To Whom It May Concern,

According to the attached TCEQ Approval Letter (EAPP ID No. 11-13031101), the Total Suspended Solids (TSS) treatment requirement was calculated based on an impervious cover of 1.875-acres. The required TSS treatment for the approved project was 1,632 pounds of TSS generated from the 1.875-acres of impervious cover. However, this site currently has 1.625-acres of impervious cover, which will increase to 1.665-acres. The required total capture volume is 8,502 cubic feet, with 8,801 cubic feet being provided. The minimum sedimentation basin area required is 177 square-feet, with 2,000 square-feet being provided at elevation 824.00-feet mean sea level (MSL) and the maximum sedimentation basin area required is 2,834 square-feet, with 2,688 square-feet being provided at elevation 826.10-feet mean sea level (MSL). The minimum filter basin area required is 709 square-feet, with 756 square-feet being provided at elevation 822.90 mean sea level (MSL). The originally approved measures meet the required 80 percent removal of load in TSS caused by the 1.875-acres of impervious cover.

The permanent BMPs and measures outlined in the original EAPP approval letter were constructed and currently function as designed. Therefore, the existing Pollution Abatement Measures are sufficient, and no revisions to the permanent BMPs are needed.

Additionally, based on the attached coordination with TCEQ staff, this Site Plan Revision can be submitted as a Contributing Zone Plan Exception.

Should you have any questions, please do not hesitate to contact our office.


Sincerely,

MAHONEY ENGINEERING



Daniel M. Mahoney, P.E.
President & CEO | Principal
Phone: (512) 596-2579

dmahoney@mahoneyeng.com



Ross Steinbach, E.I.T.
Engineer Associate I
Phone: (737) 289-9546

steinbach@mahoneyeng.com

Bryan W. Shaw, Ph.D., *Chairman*
Carlos Rubenstein, *Commissioner*
Toby Baker, *Commissioner*
Zak Covar, *Executive Director*



COPY

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 17, 2013

Mr. Glen Lietzke
Junior Volleyball Association of Austin
425 Woodward Street
Austin, Texas 78704

Re: Edwards Aquifer, Williamson County
NAME OF PROJECT: Austin Sports Center Phase II; 0.35 miles north of the intersection of Toro Grande Dr. and FM 1431; Cedar Park, Texas
TYPE OF PLAN: Request for Approval of a Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer
Edwards Aquifer Protection Program ID No. 11-13030101; Investigation No. 1073448; Regulated Entity No. RN106621881

Dear Mr. Lietzke:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP application for the above-referenced project submitted to the Austin Regional Office by Bury + Partners, Inc. on behalf of Junior Volleyball Association of Austin on March 1, 2013. Final review of the CZP application was completed after additional material was received on April 15, 2013. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The proposed sports facility project will have an area of approximately 3.75 acres and is currently undeveloped. The proposed project will include 2,400 square feet of impervious cover (IC) from a gymnasium, eight (8) outdoor volleyball courts, and parking and drives. The total IC will be 1.875 acres (50 percent). Project wastewater will be disposed of by conveyance to the existing Brushy Creek Regional 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, the stormwater runoff will be conveyed to a partial Sedimentation/ Filtration Pond. The required total suspended solids (TSS) treatment for this project is 1,632 pounds of TSS generated from the 1.875 acres of impervious cover. The water quality elevation of this pond is 826.10 ft. msl. The required total capture volume is 8,502 cubic feet, with 8,801 cubic feet being provided. The minimum sedimentation basin area required is 177 square feet, with 2,000 square feet being provided at elevation 824.00 ft. msl, and the maximum sedimentation basin area required is 2,834 square feet, with 2,688 square feet being provided at elevation 826.10 ft. msl. The minimum filter basin area required is 709 square feet, with 756 square feet being provided at elevation 822.90 ft. msl. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

STANDARD CONDITIONS

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

Prior to Commencement of Construction:

4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.
5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.
7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution

Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

8. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
9. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been significantly reduced. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).
10. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
11. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
12. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.
13. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 5, above.

After Completion of Construction:

14. Owners of permanent BMPs and measures must insure that the BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the Austin Regional Office within 30 days of site completion.

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

If you have any questions or require additional information, please contact Ms. Tracey Janus of the Edwards Aquifer Protection Program of the Austin Regional Office at (512) 339-2929.

Sincerely,



Carolyn Runyon, Water Section Manager
Austin Region Office
Texas Commission on Environmental Quality

CDR/taj

Enclosure: Deed Recordation Affidavit, Form TCEQ-0625
Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Daniel Mahoney, P.E., Bury + Partners, Inc.
Mr. Joe M. England, P.E., County Engineer, Williamson County
Mr. Sam Roberts, P.E., Director of Public Works, City of Cedar Park
TCEQ Central Records, Building F, MC212



www.mahoneyeng.com

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From: James Slone <james.slone@tceq.texas.gov>

Sent: Friday, June 21, 2024 11:28 AM

To: Ross Steinbach <rsteinbach@mahoneyeng.com>

Cc: Arturo Maldonado Jr <Arturo.Maldonado@tceq.texas.gov>; Rama Younes <Rama.Younes@tceq.texas.gov>; Lori Wilson <Lori.Wilson@tceq.texas.gov>; Daniel Mahoney <dmahoney@mahoneyeng.com>; Monica Reyes <Monica.Reyes@tceq.texas.gov>

Subject: RE: CZP Plan for Re-Development 1501 Toro Grande Boulevard Cedar Park, Texas 78613

Ross,

Arturo is out today. I was asked to look into this for you. When I read through your email and attachments, I realized that Rama had some discussion with you as well.

There is some confusion on our end. You indicate the site is at 1501 Toro Grande (Williamson County parcel R332626) in the email subject line. Google maps places that address north of the Austin Sports Sand Complex. 1401 Toro Grande is the location provided on the plan sheets which corresponds to R332625 and holds a CZP from 2013 (EAPP ID No. 11-1304011); this site/plan was discussed with Rama in the attached email. The requirement for a CZP approval in 2013 was likely based on the common plan of development with 1420 Toro Grande (R475174) which shares ownership with R332625.

Based on the site plans you provided for 1401 Toro Grande (R332625), the increase in impervious cover will require approval of an EAPP plan. There is no de minimis amount of impervious cover in our program. Although, since it is a very small amount of impervious cover and the WQ basin can accommodate it, you can submit the plan as an Exception plan. The plan still requires submittal and approval, but it has the reduced fee of \$500.

If the project really is located on the R332626 parcel, we may need to discuss further. But again, I am basing my interpretation on 1401 Toro Grande (R332625) due to the plan sheets you sent.

Please feel free to reach out if you have additional questions.

Bo

James "Bo" Slone, P.G.

Geoscientist

Edwards Aquifer Protection Program

Texas Commission on Environmental Quality

(512) 239-6994

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: _

Daniel Mahoney

Date: 07/10/2024

Signature of Customer/Agent:



Regulated Entity Name: Junior Volleyball Association of Austin

Project Information

Potential Sources of Contamination

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

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

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

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

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

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

Sequence of Construction

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

Temporary Best Management Practices (TBMPs)

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

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

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

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

11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

☒ N/A

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

Soil Stabilization Practices

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

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

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

Administrative Information

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

Attachment A

Spill Response Actions

The prime contractor will keep the following information on-site:

- A spill prevention plan.
- The location of the MSDS sheets for all hazardous materials received will be clearly posted. This provides the manufacturers' recommended methods for spill cleanup.
- The materials and equipment necessary to contain and cleanup spilled hazardous substances will be stored onsite. Equipment and materials will include, but not be limited to, brooms, dustpans, mops, rags, gloves, *goggles*, sand, sawdust, and plastic and metal trash containers specifically for this purpose.

Site personnel will be made aware of these procedures and the location of this information and cleanup supplies.

In the event of a spill or accidental discharge of a hazardous substance at the construction site, the responsible party should identify the type and amount of material(s) involved and initiate the following actions:

- All spills will be cleaned up immediately upon discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate state or local government agency, regardless of the size.
- The spill prevention plan will be modified as necessary to include measures to prevent the reoccurrence of similar spills and how to clean up the spill. A description of the spill, what caused it, and the cleanup measures will also be included.
- The Contractor will be the spill prevention and cleanup coordinator. The name of responsible spill personnel will be posted in the area where containment and cleanup materials are stored and in the contractor's office/trailer onsite.

If a major spill (e.g., a discharge or spill of oil, petroleum product, used oil, hazardous substances, industrial solid waste, or other substances into the environment in a quantity equal to or greater than the reportable quantity listed in 30 Texas Administrative Code §327.4) occurs, it will be reported to the appropriate state and local authorities.

The reportable quantities for crude oil and oil other than that defined as petroleum product or used oil shall be:

- for spills or discharges onto land - 210 gallons (five barrels).
- for spills or discharges directly into water in the state-quantity sufficient to create a sheen.

The Reportable Quantities for petroleum product and used oil shall be:

- for spills or discharges onto land - 25 gallons.
- for spills or discharges to land from PST exempted facilities - 210 gallons (five barrels).
- for spills or discharges directly into water in the state-quantity sufficient to create a sheen.

Upon the determination that a reportable quantity of discharge or spill has occurred, the spill must be reported to the appropriate agencies as soon as possible but not later than 24 hours after the discovery of the spill or discharge. The telephone report required may be made to the TCEQ. The TCEQ encourages calls directly to a regional office during regular business hours (8:00 a.m. to 5:00 p.m.) or to the agency's 24-hour number. After hours, an answering service receives incoming calls and then, an operator/paging system notifies TCEQ staff of release reports.

TELEPHONE NUMBERS:

City of Round Rock 1- 512-218-5590

Texas Commission on Environmental Quality (TCEQ)

Regional Office, Monday through Friday 8:00 a.m. to 5:00 p.m.: 1-512-339-2929

24-Hour numbers: 1-512-239-2507 or
1-512-463-7727

Environmental Release Hotline 1-800-832-8224

National Response Center (NRC) 1-800-424-8802
(Notification of the National Response Center
does not constitute notice to the state).

When making a telephone report of a spill or pollution complaint, the responsible party should provide the following information:

- The date and time of the release or spill;
- The identity or chemical name of material released or spilled as well as whether the substance is an extremely hazardous substance.
- An estimate of the quantity of material released or spilled and the time or duration of the event.
- The exact location of the release or spill, including the name of the waters involved or threatened and/or other medium or media affected by the release or spill.
- The source of the release or spill.
- The name, address, and telephone number of the party in charge of, or responsible for, the facility, vessel, or activity associated with the release or spill.
- The extent of actual and potential water pollution.
- The name and telephone number of the party at the release or spill site, who is in charge of operations at the site.
- The steps being taken or proposed to contain and clean up the released or spilled material and any precautions taken to minimize impacts including evacuation.
- The extent of injuries, if any.
- Any known or anticipated health risks associated with the incident and, where appropriate, advice regarding medical attention necessary for exposed individuals.
- Possible hazards to the environment (air, soil, water, wildlife, etc.). This assessment may include references to accepted chemical databases, material safety data sheets, and health advisories. Estimated or measured concentrations of a contaminant may be requested by the TCEQ for the state's hazard assessment.
- Identity of governmental and/or private sector representatives responding on-scene.

The responsible party shall immediately abate and contain the spill or discharge and cooperate fully with the executive director and the local incident command system. Every effort should be made to prevent the released or spilled material from reaching a water course. The responsible person shall also begin reasonable response actions which may include, but are not limited to, the following actions:

- Arrival of the responsible party or response personnel hired by the responsible party at the site of the discharge or spill.
- Initiating efforts to stop the discharge or spill.
- Minimizing the impact to the public health and the environment.
- Neutralizing the effects of the incident.
- Removing the discharged or spilled substances.
- Managing the wastes.

Upon request of the local government responders or the executive director, the responsible party shall provide a verbal or written description, or both, of the planned response actions and all actions taken before the local governmental responders or the executive director arrive. When the agency on-scene coordinator requests this information, it is subject to possible additional response action requirements by the executive director. The information will serve as a basis for the executive director to determine the need for:

- Further response actions by the responsible person
- Initiating state funded actions for which the responsible person may be held liable to the maximum extent allowed by law

Attachment B

Potential Sources of Contamination

Stormwater Discharges: Stormwater runoff during the construction period will carry soils and other pollutants from disturbed areas of the project site. The stormwater runoff will be routed to silt fences.

Non-Stormwater Discharges: Non-stormwater discharges during the construction period (e.g., water from water line flushing, pavement wash waters where no spills or leaks of toxic or hazardous materials have occurred, uncontaminated groundwater from dewatering of excavation, etc.).

All non-stormwater discharges will be directed through erosion control structures prior to release from the site.

Material Inventory: The materials or substances listed below are expected to be present onsite during construction:

- Concrete and concrete products.
- Metal reinforcing materials (e.g., rebar, welded wire fabric, etc.).
- Fertilizers, herbicides, pesticides, etc.
- Petroleum-based products.
- Plastic (PVC) and metal pipe and fittings.
- Paints.

The total amount of hydrocarbons will be limited to less than 250 gallons total.

Material Management Practices: The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff.

Good Housekeeping: The following good housekeeping practices will be followed on-site during the construction project:

- All soil, sand, gravel, and excavated material stockpiles on-site will have appropriate temporary erosion and sedimentation controls installed (down gradient).
- An effort will be made to store only enough products required to do the job.
- All materials stored on-site will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
- Materials will be stored in the construction staging, material storage, and/or temporary spoils disposal areas as shown on the construction plans.
- Products will be kept in their original containers with the original manufacturer's labels.
- Whenever possible, all products will be used before disposing the container.
- Manufacturer's recommendations for proper use and disposal will be followed.
- The Contractor will make periodic inspections to ensure the proper use and disposal of materials onsite.

Hazardous Products: These practices are used to reduce the risks associated with hazardous materials:

- Products will be kept in original containers unless they are not resealable.
- Original labels and material safety data sheets will be retained. They contain important product information.
- If surplus product must be disposed of, manufacturer's or local and state

recommended methods for proper disposal will be followed.

The following product specific practices will be followed on-site:

- Petroleum Products: All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphaltic substances used on-site will be applied according to the manufacturer's recommendations.
- Fertilizers: Fertilizers will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to stormwater. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.
- Paints: All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system, but will be properly disposed of according to manufacturer' instructions or state and local regulations.
- Concrete Trucks: Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum water on the site except in designated areas. Upon completion of the project, the Contractor will clean up the wash-out site in accordance with state and local regulations.
- Construction Equipment/Vehicles: Construction equipment/vehicles will be limited, as much as possible, to the project site. Any soil, mud, etc. to be carried from the project into public roads will be cleaned up within 24 hours.

Attachment C
Sequence of Major Activities

SEQUENCE OF CONSTRUCTION:

1. Temporary erosion and sedimentation controls are to be installed as indicated on the approved site plan and in accordance with the Storm Water Pollution Prevention Plan (SWPPP) that is required to be posted on the site.
2. The Contractor must contact the city of Cedar Park and TCEQ (512-339-2929) 72 hours prior to the scheduled date of the required on-site preconstruction meeting.
3. Please contact the City for utility locations and to obtain permit for any work within City of Round Rock R.O.W.
4. The Environmental Project Manager, and/or Site Supervisor, and/or designated responsible party, and the General Contractor will follow the Storm Water Pollution Prevention Plan (SWPPP) posted on the site. Temporary erosion and sedimentation controls will be revised, if needed, to comply with City Inspector's directives, and revised construction schedule relative to the requirements of the Erosion Plan.
5. Temporary erosion and sedimentation controls will be inspected and maintained in accordance with the Storm Water Pollution Prevention Plan (SWPPP) posted on the site.
6. If disturbed area is not to be worked on for more than 14 days, disturbed area needs to be stabilized by revegetation, mulch, tarp, or revegetation matting.
7. Begin site clearing/construction (or demolition) activities. If disturbed area is not to be worked on for more than 14 days, disturbed area needs to be stabilized by revegetation, mulch, tarp, or revegetation matting. (0.105 ac of disturbed area).
Engineer's Estimate – To commence 1-4 weeks into construction
8. Begin excavation, embankment, installation of utilities and site improvements. Begin construction of the car wash structure. Upon completion, restore as much disturbed area as possible, particularly channels and large open areas.
Engineer's Estimate – To commence 2-8 weeks into construction.
9. The Environmental Project Manager or Site Supervisor will schedule a mid-construction conference to coordinate changes in the construction schedule and evaluate effectiveness of the Erosion Control Plan after possible construction alterations to the site. Participants shall include the City Inspector, Project Engineer, General Contractor, and Environmental Project Manager or Site Supervisor. The anticipated completion date and final construction sequence and inspection schedule will be coordinates with the

appropriate City Inspector.

Engineer's Estimate – To commence 6-8 weeks into construction.

10. Upon completion of the site construction and revegetation of a project site, the Design Engineer shall submit an engineer's letter of concurrence to the City indicating that construction, including revegetation, is complete and in substantial conformity with the approved plans. After receiving this letter, a final inspection will be scheduled by the appropriate City Inspector.

Engineer's Estimate – To commence 24 weeks into construction.

11. After a final inspection has been conducted by the City Inspector and with approval from the City Inspector, remove the temporary erosion and sedimentation controls and complete any necessary final revegetation resulting from removal of the controls. Conduct any maintenance and rehabilitation of the erosion controls.

Engineer's Estimate – To commence 25 weeks into construction.

Attachment D
Temporary Best Management Practices and Measures

The following will be used for temporary erosion and sedimentation controls (E&S):

- Silt fences will be placed, as shown on the plans, to intercept sediment while allowing water to continue to flow off of the site.
- Inlet protection fencing will be provided at each of the inlets until the site is stabilized or paved.
- A temporary staging area with silt fencing on the downstream side will be provided for the placement of materials and chemicals which are to be utilized on the site during construction.

Attachment E
Request to Temporarily Seal a Feature

NOT APPLICABLE

Attachment F
Structural Practices

Silt Fencing

- Silt Fencing is to be installed according to details shown in the attached construction plans.
- Silt fencing is to be located as shown on the Erosion Control Plan.
- Silt fencing to be installed prior to any earthwork, as noted in Sequence of construction.

Attachment G
Drainage Area Map

Please see the attached construction plans.

Attachment H

Temporary Sediment Pond(s) Plans and Calculations

NOT APPLICABLE

Attachment I
Inspection and Maintenance for BMPs

The following is a general schedule for installation and inspection of temporary erosion and sedimentation (E&S) controls:

- The E&S controls will be installed as indicated on the approved E&S site plan prior to initiating any site disturbance.
- An on-site pre-construction meeting will be scheduled after the temporary E&S controls have been installed and prior to starting any other construction activities. The following entities as appropriate should be in attendance: Design Engineer, Owner, Contractor, Sub-contractors, City of Round Rock, and the TCEQ
- The temporary E&S controls may be revised based upon findings of the inspection. The temporary E&S controls will be inspected each week and prior to or immediately after rainfall events. Maintenance and repairs will be accomplished as needed.
- The temporary E&S controls will be periodically evaluate for effectiveness and modified as necessary.
- The silt will be periodically removed from the permanent controls and new filter media installed as necessary.
- Once construction has been completed, the disturbed areas will be revegetated.
- Temporary E&S controls may be removed when vegetation is reestablished.

Attachment J
Schedule of Interim and Permanent Soil Stabilization Practices

The contractor will begin revegetating disturbed areas within 14 days if activities in an area will cease for more than 21 days.

Revegetation of disturbed areas will be with native grasses, hydromulch, or sodding. The required seeding, fertilizing, and watering information can be found in the attached construction plans.

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

I Glen Lietzke,
Print Name

DIRECTOR
Title - Owner/President/Other

of Junior Volleyball Association of Austin,
Corporation/Partnership/Entity Name

have authorized Daniel Mahoney,
Print Name of Agent/Engineer

of Mahoney Engineering
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

7/10/2024
Date

THE STATE OF TEXAS §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared **Glen Lietzke** 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 10th day of July, 2024.


NOTARY PUBLIC

Lauren Elise Vaughn
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: March 8th, 2025

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Junior Volleyball Association of Austin

Regulated Entity Location: 1401 Toro Grand Boulevard

Name of Customer: Glen Lietzke

Contact Person: Daniel Mahoney

Phone: (512) 596-2579

Customer Reference Number (if issued): CN 603247933

Regulated Entity Reference Number (if issued): RN 106621881

Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone

☒ Contributing Zone

☐ Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	3.75 Acres	\$
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$ 500
Extension of Time	Each	\$

Signature: 

Date: 7/10/2024

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

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



TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input checked="" type="checkbox"/> Other	For Exception Application to CZP Plan, No customer or regulated entity core data updates
2. Customer Reference Number (if issued)	3. Regulated Entity Reference Number (if issued)	
CN 603247933	RN 106621881	

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

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership			
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)			
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		<i>If new Customer, enter previous Customer below:</i>	
JUNIOR VOLLEYBALL ASSOCIATION OF AUSTIN			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
11. Type of Customer:	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:			
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant			
15. Mailing Address:	425 Woodward Street		
City	Austin	State	TX
ZIP	78704	ZIP + 4	
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
		glen@austinsportscenter.com	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	

(512) - 797- 0597

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SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)

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

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core 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.)

Austin Sports Center Phase II

23. Street Address of the Regulated Entity:

1401 Toro Grande Boulevard

(No PO Boxes)

City

Cedar Park

State

TX

ZIP

78641

ZIP + 4

24. County

Williamson

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:

0.35 MI NORTH FROM THE INTERSECTION OF TORO GRANDE DR AND FM 1431

26. Nearest City

State

Nearest ZIP Code

Cedar Park

TX

78641

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:

30.543004296132978

28. Longitude (W) In Decimal:

-97.77754796123543

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

29. Primary SIC Code

30. Secondary SIC Code

31. Primary NAICS Code

32. Secondary NAICS Code

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

7991

713940

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

Volleyball courts and camps for youth

34. Mailing Address:

425 Woodward Street

Address:

City

Austin

State

TX

ZIP

78704

ZIP + 4

35. E-Mail Address:

glen@austinsportscenter.com

36. Telephone Number

37. Extension or Code

38. Fax Number (if applicable)

(512) - 797- 0597

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39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
		11-13030101		
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

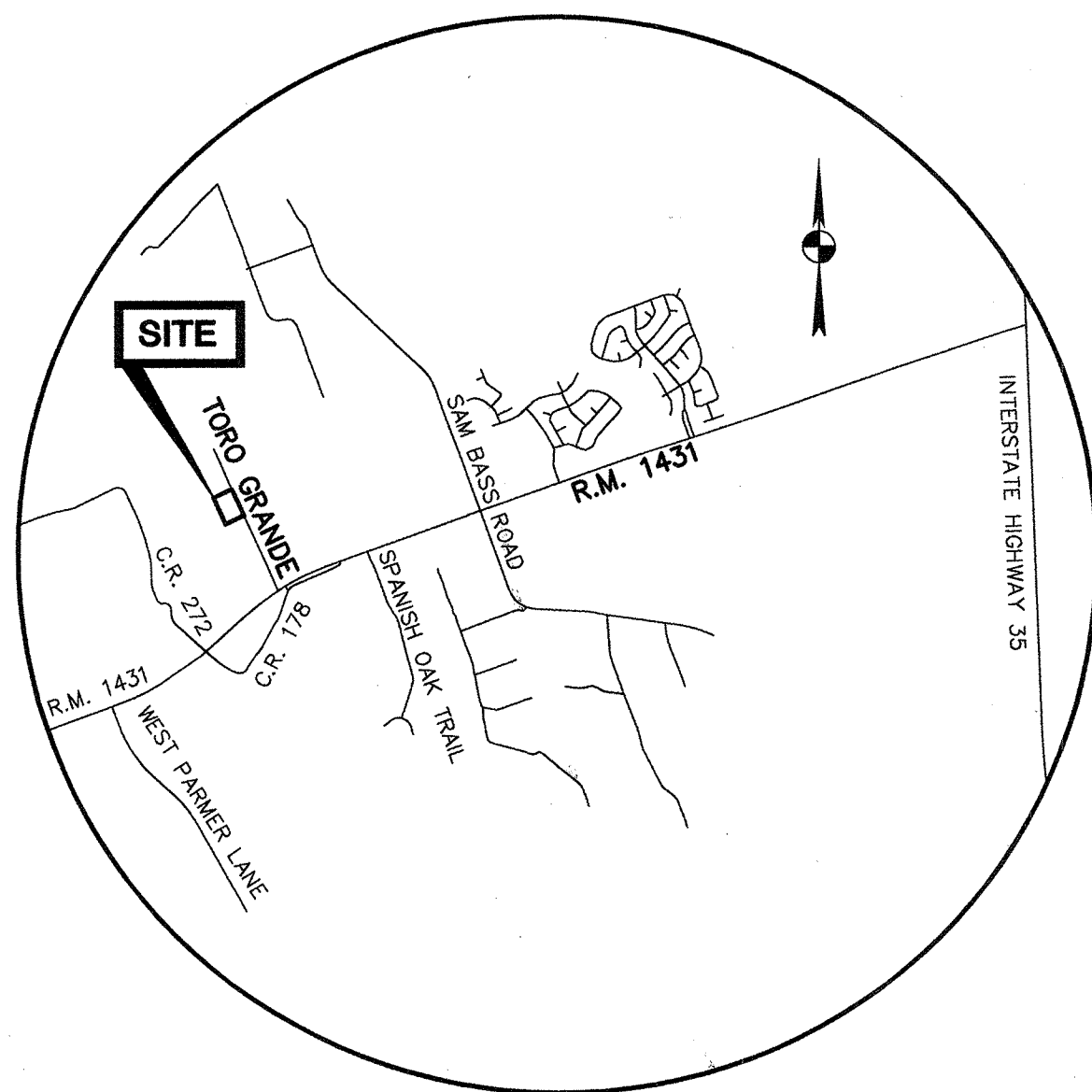
40. Name:	Daniel Mahoney			41. Title:	President & CEO Project Principal
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(737) 289-9546		() -	dmahoney@mahoneyeng.com		

SECTION V: Authorized Signature

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

Company:	Mahoney Engineering	Job Title:	President & CEO Project Principal
Name (In Print):	Daniel Mahoney	Phone:	(512) 596- 2579
Signature:			Date: 07/26/2024

Original Site Plan
Revision:
SD-2013-00005



VICINITY MAP
N.T.S.

OWNER: AUSTIN SPORTS CENTER
425 WOODWARD STREET
AUSTIN, TEXAS 78704
(512) 479-8776

ARCHITECT: L. S. JOHNSTON ARCHITECTS
1313 EAST 6TH STREET
AUSTIN, TEXAS 78702
(512) 478-4952

ENGINEER: BURY+PARTNERS, INC.
221 WEST SIXTH STREET, SUITE 600
AUSTIN, TEXAS 78701
(512) 328-0011

LANDSCAPE ARCHITECT: BURY+PARTNERS, INC.
221 WEST SIXTH STREET, SUITE 600
AUSTIN, TEXAS 78701
(512) 328-0011

WATERSHED STATUS:

THIS SITE IS LOCATED IN THE EDWARDS AQUIFER CONTRIBUTING ZONE AS DEFINED BY THE TEXAS COMMISSION OF ENVIRONMENTAL QUALITY.

FLOODPLAIN INFORMATION:

NO PORTION OF THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOODPLAIN OF ANY WATERCOURSE AND IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA AS DEFINED BY FEDERAL EMERGENCY MANAGEMENT AREA (FEMA) AS INDICATED ON COMMUNITY PANEL 48491C0470E DATED SEPTEMBER 26, 2008.

LEGAL DESCRIPTION:

3.750 ACRES OF LAND, MORE OR LESS OUT OF THE WASHINGTON ANDERSON SURVEY, ABSTRACT NO. 15, IN WILLIAMSON COUNTY, TEXAS, THAT CERTAIN TRACT OF LAND CONVEYED BY DEED OF RECORD 2010081902 OF THE OFFICIAL RECORDS OF WILLIAMSON COUNTY, TEXAS.

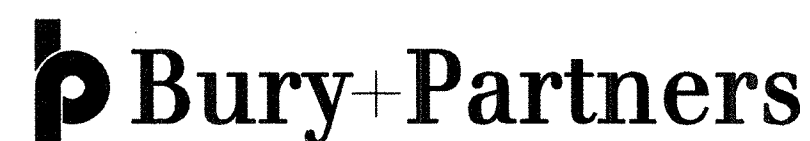
BENCHMARK NOTE:

ELEVATIONS HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) UTILIZING WESTERN DATA SYSTEMS CONTINUALLY OPERATING REFERENCE STATION (CORS) NETWORK.

TBM A: 1/2" IRON ROD WITH CAP SET ON WEST SIDE OF GRAVEL ROAD ±90' SOUTHWEST OF NORTHWESTERLY SUBJECT PROPERTY CORNER. ELEV=826.35'

TBM B: PK NAIL WITH WASHER SET IN SIDEWALK ON EASTERLY SIDE OF TORO GRANDE BLVD., ±40' SOUTHEAST OF NORTHEASTERLY SUBJECT PROPERTY CORNER. ELEV=860.97'

TBM C: PK NAIL WITH WASHER SET IN SIDEWALK ON EASTERLY SIDE OF TORO GRANDE BLVD., ±55' NORTHEAST OF SOUTHEASTERLY SUBJECT PROPERTY CORNER. ELEV=844.39'



221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel. (512)328-0011 Fax (512)328-0325
TBPE Registration Number F-1048
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SITE DEVELOPMENT PERMIT PLANS

FOR

AUSTIN SPORTS CENTER BRASSFIELD



July 15, 2008
Merlin Lester
213-A West 8th Street
Georgetown, TX 78626
Subject: legal lot determination for the 3.75 acre tract owned by Mr. Nancy Brassfield
Dear Mr. Lester:
Upon review of the deed history provided for Mr. Brassfield's property, further described as 3.75 acres of land out of the Washington Anderson Survey, Abstract 15, Williamson County, Texas, staff has determined that the tract is considered a legal lot. For the deed record dated March 16, 1993, this tract was created prior to January 12, 1996, predating the jurisdiction of the City of Cedar Park Subdivision Ordinance on this tract.
If you have any questions, please contact me at 512-401-5056.
Sincerely,

Amy Link, AICP
Senior Planner

600 N. Bell Boulevard | Cedar Park, Texas 78613 | Office (512) 401-5000 | Fax (512) 258-0083 | www.cedarparktx.us

ADDRESS : 1401 TORO GRANDE BOULEVARD

SUBMITTAL DATE : FEBRUARY, 2013

SUBMITTED BY :

DANIEL M. MAHONEY, P.E.
BURY+PARTNERS, INC.
221 WEST SIXTH STREET, SUITE 600
AUSTIN, TEXAS 78701
(512) 328-0011

NOTE:
THE PLAN FOR THE POWER POLES IN THE MEDIAN IS SUBJECT TO CHANGE BASED ON PEDERNALES ELECTRIC COOPERATIVE'S OVERALL POLE RELOCATION PLAN.

I, DANIEL M. MAHONEY, P.E., CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THE INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL.

FILE: G:\108724\10002\108724002CVR01.dwg

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	EXISTING BOUNDARY TREE & TOPOGRAPHY PLAN
4	DEMOLITION PLAN
5	EXISTING AND PROPOSED DRAINAGE AREA MAP
6	EROSION & SEDIMENTATION CONTROL PLAN
7	EROSION & SEDIMENTATION CONTROL NOTES & DETAILS
8	SITE PLAN
9	SITE PLAN NOTES & DETAILS 1
10	SITE PLAN NOTES & DETAILS 2
11	GRADING PLAN
12	WATER & WASTEWATER PLAN
13	WATER & WASTEWATER NOTES & DETAILS
14	DRAINAGE PLAN
15	POND PLAN & DETAILS
16	POND DETAILS
17	FIRE PROTECTION PLAN
18	LANDSCAPE PLAN
19	LANDSCAPE PLAN
20	SAND COURTS DRAIN PLAN
21	SAND COURTS DRAIN PLAN
22	LIGHTING COMPATIBILITY PLAN
23	ARCHITECTURAL ELEVATIONS
24	CROSS SECTIONS
25	SIGNING & STRIPING PLAN

NO.	DESCRIPTION	REVISE (R) ADD (A) VOID (V) SHEET NO.'S	TOTAL # SHEETS IN PLAN SET	NET CHANGE IMP. COVER (sq. ft.)	TOTAL SITE IMP. COVER (sq. ft.) [%]	CITY OF CEDAR PARK APPROVAL/DATE	DATE IMAGED

SITE DEVELOPMENT PERMIT NO. SD-13-00005
REVIEWED FOR CODE COMPLIANCE
SIGNATURE REQUIRED FROM ALL DEPARTMENTS

PLANNING 10/30/13
DATE

PUBLIC WORKS 10/31/13
DATE

INDUSTRIAL PRETREATMENT 10/31/13
DATE

FIRE MARSHAL 3/20/2013
DATE

URBAN FORESTER 10/31/13
DATE

ADDRESSING 10/31/13
DATE

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

APPROVED

PLANNING DEPT

OCT 31 2013

CITY OF CEDAR PARK

SHEET

1

OF

25

SD-13-00005

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF AUSTIN STANDARD SPECIFICATIONS. CITY OF AUSTIN STANDARDS SHALL BE USED UNLESS OTHERWISE NOTED.
2. ANY REQUIREMENTS THAT MAY BE IN CONTRADICTION WITH THE CITY OF AUSTIN ORANGE CREEK MANUAL, ALL VARIANCES TO THE MANUAL ARE LISTED BELOW:
 - 2.1. NONE
3. THE CONTRACTOR SHALL GIVE THE CITY A MINIMUM OF 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION. THE PHASES OF CONSTRUCTION ARE AS FOLLOWS:
 - 3.1. NO PHASING IS PROPOSED WITH THIS DEVELOPMENT.
 - 3.2. REFER TO SEQUENCE OF CONSTRUCTION NOTES ON THIS PAGE FOR CONSTRUCTION PROCEDURES.
4. BENCHMARKS SHOULD BE TIED TO THE CITY OF CEDAR PARK BENCHMARKS AND BE CORRECTED TO THE FOLLOWING ELEVATIONS:

WWW.CEDARPARKTEXAS.GOV, CLICK ON CITY SERVICES; NAVIGATE TO E SERVICES; GIS MAPPING AND ELEVATIONS AND MONUMENTS. LIST BENCHMARKS USED FOR THIS PROJECT AND GIVE LOCATION AND ELEVATION.

- [illegible]

1. NO TRENCHING OR COMPACTED BASE WILL BE ALLOWED, A PENALTY AND/OR FINE MAY BE IMPOSED ON THE GENERAL CONTRACTOR IF TRENCHING OR COMPACTED BASE OCCURS WITHOUT CITY APPROVAL.
2. ALL SIDEWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CITY OF CEDAR RAPIDS HAS REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT, OR A STATEMENT OF SUBMITTAL TO THE CITY OF CEDAR RAPIDS, AND DOES NOT WARRANT OR APPROVE THESE PLANS FOR ACCESSIBILITY STANDARDS.
3. STREET BARRICADES SHALL BE INSTALLED ON ALL DEAD END STREETS AND AS NECESSARY DURING CONSTRUCTION.
4. ANY DAMAGE CAUSED TO EXISTING PAVEMENT, CURBS, SIDEWALKS, RAMPS, ETC., SHALL BE REPAIRED TO THE CONTRACTOR TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE SUBDIVISION.
5. AT INTERSECTIONS, WHICH HAVE VALLEY CROOKS, THE CROWN TO THE INTERSECTING STREET WILL BE MAINTAINED TO THE CROWN OF THE STREET.
6. THE SUBGRADE MATERIAL WAS TESTED BY (TERRACON, 5307 INDUSTRIAL OAKS BOULEVARD, SUITE 160 512-442-1122) ON (JANUARY 25, 2013) THE PAVEMENT SECTIONS WERE DESIGNED ACCORDINGLY. THE PAVEMENT SECTIONS ARE TO BE CONSTRUCTED AS FOLLOWS:
 1. FOR PRIVATE PROPERTY SUBGRADE MATERIAL SHALL BE 10% FILL.
 2. FOR PUBLIC PROPERTY REFER TO TWO BUCKS SUBDIVISION CONSTRUCTION PLANS (S-05-019), TOWN OF GRAND RAPID, PLAN AND PROFILE SHEET.
7. DENSITY TESTING OF COMPACTED SUBGRADE MATERIAL, FIRST COURSE AND SECOND COURSE COMPACTED BASE SHALL BE LIMITED TO 500 FOOT LONG AND 10 FEET WIDE.
8. ALL DENSITY TESTING IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR AND SHALL BE WITNESSED BY THE CITY OF CEDAR RAPIDS PROJECT REPRESENTATIVE. THE CONTRACTOR IS TO NOTIFY THE CITY 48 HOURS BEFORE DENSITY TESTING.
9. TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND AS DIRECTED BY THE CITY OF CEDAR RAPIDS PRIOR TO CITY ACCEPTANCE OF THE SUBDIVISION.
10. IF THE CITY OF CEDAR RAPIDS DETERMINES THAT THE RIGHT-OF-WAY SHALL NOT EXCEED 31', IF A 31' SIDEWALK IS NOT POSSIBLE, A RETAINING WALL OR SOME OTHER FORM OF SLOPE PROTECTION APPROVED BY THE CITY SHALL BE PLACED IN A LOCATION ACCEPTABLE TO THE CITY.
11. THE CITY OF CEDAR RAPIDS WILL BE NOTIFIED 48 HOURS BEFORE THE ASPHALT TESTING LAB HAS BEEN SELECTED. PRE-PAVING CONFERENCE PRIOR TO THE START OF IMHAC PAVING. THE CONTRACTOR SHALL GIVE THE CITY A MINIMUM OF 48 HOURS NOTICE PRIOR TO THIS MEETING (312-401-5000).
12. THE CONTRACTOR OR OWNER IS RESPONSIBLE FOR CONDUCTING TESTS ON ASPHALT PAVEMENT MARKINGS AND SIGNAGE. THE CITY OF CEDAR RAPIDS WILL NOT BE RESPONSIBLE FOR REGISTRATION 340. ANY RE-TESTING OF THE ASPHALT PAVEMENT SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE CITY OF CEDAR RAPIDS. ANY RE-TESTING OF THE ASPHALT PAVEMENT SHALL BE LIMITED TO ONE RETEST PER SIGNAGE.
13. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL COMPLY WITH MUTCD STANDARDS. STREET NAME LETTER SIZE SHALL BE IN ACCORDANCE WITH MUTCD 262-2. PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
14. ALL SIGNS SHALL BE HIGH INTENSITY RETRO GRADE.

15. NO FENCING OR WALLS ALLOWED TO BE CONSTRUCTED SO THAT IT OBSTRUCTS THE SIGHT LINES OF DRIVERS FROM AN INTERSECTING PUBLIC ROADWAY OR FROM AN INTERSECTING PRIVATE DRIVEWAY. SIGHT LINES ARE TO BE MAINTAINED AS DESCRIBED IN CITY CODE SECTION 14.05.D07, INSTALLING A FENCE OR WALL WHICH DOES NOT COMPLY WITH THE CITY'S SIGHT DISTANCE REQUIREMENTS OR FENCING REGULATIONS IS A VIOLATION OF THE CITY'S ORDINANCE AND MAY BE PUNISHABLE PURSUANT TO REGULATION 1.01.009 OF CITY CODE.

- MANHOLE FRAMES AND COVERS AND WATER VALVE BOXES SHALL BE RAISED TO FINISHED PAVEMENT SURFACE. THE OWNERS RESPONSIBILITY TO OBTAIN THE CONTRACTOR WITH THE CITY APPROVAL. ALL UTILITIES ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION.
2. THE LOCATION OF ANY EXISTING UTILITY LINES SHOWN ON THESE PLANS MAY NOT BE ACCURATE. AN DAMAGE TO EXISTING UTILITY LINES, BOTH KNOWN AND UNKNOWN, SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO BIDDING THE PROJECT.
3. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH AT LEAST 8 MIL. POLYETHYLENE WRAP.
4. ALL WATER MAINS, WASTEWATER MAINS AND SERVICE LINES SHALL MEET CITY OF AUSTIN MINIMUM COVER REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST TO SUBGRADE PRIOR TO INSTALLATION OF WATER MAIN OR CUTS WILL BE ISSUED BY THE ENGINEER.
5. WHERE 48-INCHES OF COVER BELOW SUBGRADE CANNOT BE ACHIEVED FOR WASTEWATER SERVICE LINE, ALTERNATE MATERIALS MAY BE USED. A MINIMUM OF 36-INCHES OF COVER BELOW SUBGRADE SHALL BE ACHIEVED. ANY WASTEWATER SERVICE LINE WITH COVER BETWEEN 36-INCH AND 48-INCHES SHALL BE SDR-26 TO PRESSURE RATED PVC.
6. GASKETED PVC SEWER MAIN FITTINGS SHALL BE USED TO CONNECT SDR-35 PVC TO SDR-26 PVC. PRESSURE PIPE OR C-90.
7. PIPE MATERIALS TO BE USED FOR CONSTRUCTION OF UTILITY LINES:
WASTEWATER--SDR-26
FORCE MAIN--NORNE PROPOSED
(NOTE: SDR-35 WV IS NOT ALLOWED IN THE ROW)
8. ALL SANITARY SEWERS, EXCLUDING SERVICE LINES, SHALL BE MANHOLE TESTED PER TCEQ (TEXAS COMMISSION ON ENVIRONMENTAL QUALITY) CRITERIA. A MANHOLE TEST WILL NOT BE PERFORMED UNTIL BACKFILL HAS BEEN IN PLACE, FOR A MINIMUM OF 30 DAYS.
9. ALL SANITARY SEWERS, INCLUDING SERVICE LINES, SHALL BE AIR TESTED PER CITY OF AUSTIN STANDARD SPECIFICATIONS.
10. DENSITY TESTING OF COMPACTED BACKFILL SHALL BE MADE AT A RATE OF ONE TEST PER TWO FOOT LIFTS PER 500 FEET OF INSTALLED PIPE.
11. CITY SHALL BE GIVEN 48 HOURS NOTICE PRIOR TO ALL TESTING OF WATER AND WASTEWATER LINE. CITY INSPECTION IS REQUIRED FOR ALL TESTING OF WATER AND WASTEWATER LINES.
12. WHERE A WATER OR WASTEWATER LINE CROSSES ABOVE (OR BELOW) A STORM SEWER STRUCTURE, AN OPEN TRENCH OR PIPE OR A DITCH, THE UTILITY SHALL BE PROTECTED BY THE TOP (OR BOTTOM) OF THE UTILITY STRUCTURE. THE PIPE SHALL BE ENCASED WITH CONCRETE FOR A DISTANCE OF AT LEAST 1 FT. EACH EITHER SIDE OF THE DITCH LINE OF THE UTILITY STRUCTURE OR THE STORM SEWER. CONCRETE ENCASEMENT SHALL BE 12 INCHES MINIMUM THICKNESS. CLASS 500. AWA C-900 (SDR-11) 150 PSI RATED PVC IN SIZES TO 12 INCHES OR AWA C-905 (SDR-2.5) 165 PSI RATED PVC IN SIZE LARGER THAN 12 INCHES. CONCRETE ENCASEMENT SHALL CONFORM TO C-90A STANDARD PAVED SIDE 505-1.
13. THE ALLOWABLE (MAXIMUM) ADJUSTMENT FOR A MANHOLE SHALL BE 12" (INCHES) OR LESS.
14. WHERE A SEWER LINE CROSSES A WATER LINE, THE SEWER LINE SHALL BE ONE 20 FT. JUNT OF 150 PSI RATED PVC CENTERED ON CROSSING.
15. ALL MANHOLE AND INLET COVERS SHALL READ "CITY OF CEDAR PARK".
16. CONTRACTOR TO NOTIFY, AND OBTAIN APPROVAL FROM, THE CITY OF CEDAR PARK 48 HOURS PRIOR TO CONNECTING TO EXISTING CITY UTILITIES.
17. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS.
18. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 CACK, 3000 PSI ~ 28-DAYS), AND ALL REINFORCING STEEL TO BE ASTM A615 60.
19. ALL WASTEWATER MANHOLES TO BE COATED WITH MATERIALS AND PROCEDURES LISTED IN CITY OF AUSTIN MANHOLE PRODUCTS LIST NO. WW-501. ALL MANHOLES WILL BE PRE-COATED OR COATED AFTER TESTING.
20. ALL MANHOLES WILL BE VACUUM TESTED ONLY.
21. TRACER TAPE AND MARKING TAPE SHALL BE INSTALLED ON ALL WATER AND WASTEWATER MAINS IN ACCORDANCE WITH CITY OF AUSTIN STANDARDS, REGARDLESS OF THE TYPE OF PIPE.
22. POLYBID COATINGS ON WASTEWATER MANHOLES WILL NOT BE ALLOWED. ANY OTHER PRODUCT APPEARING ON THE CDA SPL WW-511 IS ACCEPTABLE.

1. THE TOP OF VALVE STEMS SHALL BE AT LEAST 18", AND NO MORE THAN 36", BELOW FINISHED GRADE. VALVE STEM RISERS SHALL BE WELDED ON EACH END TO THE CITY'S SATISFACTION.
2. FIRE HYDRANT LEADS TO BE DUCTILE IRON, CLASS 350, AND INSTALLED PER CITY OF AUSTIN STANDARD SPECIFICATIONS AND DETAIL.
3. PRIOR TO INSTALLATION OF FIRE HYDRANTS, THE ENGINEER WILL PROVIDE THE CONTRACTOR ONE (1) CUT FROM A HUB PIN, ESTABLISHING THE ELEVATION OF THE BURY LINE.
4. THE ENGINEER SHALL PROVIDE CUTS FOR ALL WATER LINES AT ALL STORM SEWER CROSSINGS TO THE CITY OF CEDAR RAPIDS.
5. PIPE MATERIALS TO BE USED FOR CONSTRUCTION OF UTILITY LINES:
 - 5.1. COPPER PIPE AND FITTINGS ARE NOT PERMITTED WITHIN THE RIGHT-OF-WAY.
 - 5.2. SERVICE PIPE SHALL BE 200 P.S.I. BLACK COLORED POLYETHYLENE HAVING A DIMENSION RATIO OF (DR) = (SPL WM-65)
 - 5.3. SERVICE SADDLE SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
 - 5.4. FIRE SERVICE LINE SHALL BE PVC C-900.
6. APPROVED 5 1/2" FIRE HYDRANTS:
 - 6.1. AMERICAN FLOW CONTROL, B64B
 - 6.2. MUELLER COMPANY, SUPER CENTURION 250
 - 6.3. CLOW MEDALLION HYDRANT
 - 6.4. AMERICAN ACRY COMPANY, SERIES 27 (MOEEL 2780)
- *ALL FIRE HYDRANTS MUST MEET CITY OF CEDAR RAPID THREAO SPECIFICATIONS (NATIONAL THREAO).
- *BLUE REFLECTOR MARKERS SHALL BE LOCATED ON THE CENTERLINE OF THE PAVEMENT ACROSS FROM ALL FIRE HYDRANTS. REFLECTORS SHALL BE FOUR-INCHES IN DIAMETER.
7. ALL WATER LINES, INCLUDING SERVICE LINES, SHALL BE PRESSURE AND LEAK TESTED PER CITY OF AUSTIN STANDARD SPECIFICATIONS AND WITNESSED BY THE CITY OF CEDAR RAPIDS REPRESENTATIVE. ALL TESTING IS TO BE THE RESPONSIBILITY OF THE CONTRACTOR, AND THE CONTRACTOR MAY BE REQUIRED TO TEST LINES IF THE TESTING IS NOT WITNESSED BY THE CITY. CONTRACTOR MUST NOTIFY THE CITY OF CEDAR RAPID 48 HOURS PRIOR TO ANY TESTING.
8. ALL WATER LINES SHALL BE SUBMITTING AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH CITY OF CEDAR RAPIDS STANDARD SPECIFICATIONS AND WITNESSED BY THE CITY OF CEDAR RAPIDS. THE CITY OF CEDAR RAPIDS IS RESPONSIBLE FOR SUBSTERILIZED BACTERIOLOGICAL SAMPLES TO THE STATE.
9. DENSITY TESTING OF INSTALLED BACKFILL SHALL BE MADE AT A RATE OF ONE TEST PER TWO FOOT LIFTS PER 500 FEET OF COMPACTED BACKFILL.
10. CONTRACTOR TO NOTIFY THE CITY OF CEDAR RAPID FROM THE CITY OF CEDAR RAPID FOR ANY WATER THAT MAY BE REQUIRED DURING CONSTRUCTION. (152-401-5000)
11. ALL WATER METER BOXES SHALL BE F090 GULF METER BOX WITH LOCKING LID.

1. MANHOLE FRAMES AND COVERS AND WATER VALVE BOXES SHALL BE RAISED TO FINISHED PAVEMENT GRADE AT THE OWNER'S EXPENSE BY THE CONTRACTOR WITH CITY INSPECTION. ALL UTILITY LINES SHALL BE PROTECTED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILL AROUND MANHOLES AND JUNCTION BOXES WITH CLASS A CONCRETE.
2. ALL MANHOLE LIDS SHALL BE 32" OR LARGER, UNLESS EXPRESSLY APPROVED IN WRITING BY THE ENGINEERING DEPARTMENT.
3. THE LOCATION OF ANY EXISTING UTILITY LINES SHOWN ON THESE PLANS IS THE BEST AVAILABLE AND MAY NOT BE ACCURATE. ANY DAMAGE TO EXISTING UTILITY LINES, BOTH KNOWN AND UNKNOWN, SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
4. PIPE MATERIALS TO BE USED FOR CONSTRUCTION OF UTILITY LINES: UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, ALL STORM SEWER RCP SHALL BE CLASS III CORRUGATED METAL PIPE IS NOT PERMITTED.
5. ALL MANHOLE AND INLET COVERS SHALL READ "CITY OF CEDAR PARK".
6. CONTRACTOR TO NOTIFY THE CITY OF CEDAR PARK 48 HOURS PRIOR TO CONNECTING TO EXISTING UTILITIES.
7. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS.
8. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 SACK, 3000 PSI ~ 28-DAYS), AND ALL REINFORCING STEEL TO BE ASTM A615 60.
9. CONTRACTOR TO INSTALL AND MAINTAIN GEE-TEXTILE FIBER BARRIER (NIET PROTECTION) AROUND ALL EXPOSED LEAKS IN ORDER TO PREVENT SILT AND OTHER MATERIAL FROM ENTERING THE STORM SEWER COLLECTION SYSTEM.
10. INSTALL CONCRETE SAFETY END TREATMENTS TO ALL CULVERTS AND ENDS OF DRAINAGE PIPE.

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE APPROVED GRUBBING AND REMOVAL PLAN.
4. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGNER, CITY ENGINEER, APPLICANT AND THE CITY OF CEDAR RAPIDS AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO THE START OF ANY MAJOR MATERIAL HANDLING OR EXCAVATION. THE CONTRACTOR SHALL NOTIFY THE CITY OF CEDAR RAPIDS AT LEAST THREE DAYS PRIOR TO THE MEETING DATE.
5. 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. ANY MAJOR VARIATION IN THE LOCATION OF ANY CONTROL AFTER INSTALLATION OF THE CONTROLS MUST BE APPROVED BY THE PLANNING DEPARTMENT AND THE PUBLIC WORKS DEPARTMENT. MINOR VARIATIONS IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THE APPROVED PLANS MAY BE REQUIRED BY THE CITY OF CEDAR RAPIDS DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
6. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND REPORT THE RESULTS OF THE INSPECTIONS TO THE CITY ENGINEER. IF THE CONTROLS ARE NOT FUNCTIONING PROPERLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED TO MAINTAIN THE REQUIRED REDUCED EROSION RATES.
7. PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAIL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCELERATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND VEGETATED. ALL LANDS TO BE RESTORED TO ORIGINAL GRADE AND VEGETATION SHALL BE RESTORED TO ORIGINAL GRADE AND VEGETATION.
8. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS ONE SQUARE FOOT IN TOTAL AREA; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY REVEALS WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT THE IOWA COMMISSION ON ENVIRONMENTAL QUALITY FOR FURTHER INVESTIGATION.
9. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE PUBLIC WORKS DEPARTMENT AT (515) 281-4200 AT LEAST 48 HOURS PRIOR WITHIN THE CITY OF CEDAR RAPIDS. THE PERMITTEE SHALL BE RESPONSIBLE TO SECURE THE MATERIAL.

ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.

(A) A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE CHANNELS (EXCEPT ROCK) AND BETWEEN THE CURB AND RIGHT-OF-WAY LINE.

(B) THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:

- I. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 2 POUNDS PER 1000 SF OF UNHULLED BERMAUDA AND 7 POUNDS PER 1000 SF OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINATION.
- II. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMAUDA AT A RATE OF 7 POUNDS PER 1000 SF WITH A PURITY OF 95% WITH 85% GERMINATION.
- III. FERTILIZER SHALL BE A PELLETTED 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 A RATE OF 1 POUND PER 1000 SF.
- IV. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SF.

- I. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 1 POUND PER 1000 SF OF UNHILLED BERMUODA AND 7 POUNDS PER 1000 SF OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINAL.
- II. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HILLED BERMUODA AT A RATE OF POUND PER 1000 SF WITH A PURITY OF 95% WITH 85% GERMINAL.
- III. FERTILIZER SHALL BE A WATER SOLUBLE FERTILIZER WITH AN ANALYSIS OF 15-15-15 AT A RATE OF 1.5 POUNDS PER 1000 SF.
- IV. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SF, WITH SOIL TACKIFIER AT A RATE OF 1.4 POUNDS PER 1000 SF.

(A) 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 INCHES. THE IRRIGATION SHALL OCCUR AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS RAINFALL OCCURS OF 1/2-INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK.

(B) 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.

(C) WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL.

1. EXTERIOR WALL BUILDING MATERIALS FOR WALLS VISIBLE FROM ROADWAY DESIGNATED IN THE CORRIDOR OVERLAY ORDINANCE SHALL BE CONSTRUCTED WITH BRICK, NATIVE TEXAS STONE, GABBRO STONE, PRECAST CONCRETE PANELS, SPLIT FACE MASONRY UNITS, FIBER/CEMENT BOARD (e.g. Durock) OR SOLID CONCRETE. BRICK, GABBRO STONE, OR PRECAST CONCRETE PANELS SHALL BE CONSTRUCTED OR OTHER MATERIAL AS APPROVED BY THE CITY OF CEDAR RAPIDS PLANNING DEPARTMENT IF SUCH MATERIALS MEET OR EXCEED THE STANDARDS OF THE MATERIALS LISTED ABOVE (CHAPTER 11, DESIGN AND CONSTRUCTION CRITERIA MANUAL) (TABLE 9-2, TRANSPORTATION CRITERIA MANUAL)
2. THE FIRE LANE CANNOT BE USED AS A STAGING AREA.
3. ALL NEW UTILITY LINES TO BE INSTALLED THAT ARE VISIBLE FROM A PUBLIC ROADWAY ARE REQUIRED TO BE PROTRUDING. (CHAPTER 12, SEC. 14A.8; CEDAR PARK CODE)
4. EXCEPT FOR FIRE HYDRANTS, ABOVE GROUND UTILITY FACILITIES ARE REQUIRED TO BE SCREENED FROM VIEW ON ALL SIDES BY EVERGREEN PLANTS THAT HAVE A MATURE HEIGHT AT LEAST EQUAL TO THE HEIGHT OF THE FACILITY BEING SCREENED. (CHAPTER 12, SEC. 14A.7.02; CEDAR PARK CODE)
5. EXTERIOR LIGHTING SHALL BE NON-FLASHING AND SHIELDED SUCH THAT THE LIGHT SOURCE IS NOT DIRECTLY VISIBLE FROM THE ROADWAY OR FROM ANY OTHER ON-OR OFF-ROUTE RESIDENTIAL DISTRICTS OR USES. (CHAPTER 12, SEC. 14A.10; CEDAR PARK CODE)(CHAPTER 13, SEC. 13.10, SE 10.10; CEDAR PARK CODE) UNLESS OTHERWISE REQUIRED BY FEDERAL GUIDELINES.
6. "FIRELANE - TOW AWAY ZONE" EVERY 35 FEET SHALL BE INDICATED ALONG ALL CURBS WHERE THERE IS NO HEAD-IN OR PARALLEL PARKING (AND IS NOT ALREADY MARKED AS A FIRE LANE). (SEC. 2.02, 2.0; TRANSPORTATION CRITERIA MANUAL) (TABLE 9-2, TRANSPORTATION CRITERIA MANUAL)
7. NO FENCING IS ALLOWED WITHIN THE 25' FRONT SETBACK AREA FROM A ROADWAY DESIGNATED IN THE CORRIDOR OVERLAY ORDINANCE... ANY FENCING BEHIND THE 25' FRONT SETBACK IN THE CORRIDOR OVERLAY AREA SHALL BE CONSTRUCTED WITH BRICK, NATIVE TEXAS STONE, GABBRO STONE, PRECAST CONCRETE PANELS, SPLIT FACE MASONRY UNITS, FIBER/CEMENT BOARD OR SOLID CONCRETE. PLANTING FIVE GALLON EVERGREEN SHRUBS AND VINES THAT WILL, AT MATURITY, SCREEN AT LEAST THIRTY PERCENT (30%) OF THE VIEW OF THE FENCE. CHAIN LINK FENCES SHALL ONLY BE USED FOR THE 25' FRONT SETBACK AREA FROM A ROADWAY DESIGNATED IN THE CORRIDOR OVERLAY AREA. CHAIN LINK FENCES ARE NOT ALLOWED AROUND DETENTION PONDS. (CHAPTER 12, SEC. 14A.10; CEDAR PARK CODE)
8. TRASH COMPACTERS OR OTHER PERMANENT OUTDOOR TRASH RECEPTACLES MAY NOT BE LOCATED WITHIN THE 25' FRONT SETBACK AREA FROM A ROADWAY DESIGNATED IN THE CORRIDOR OVERLAY AREA CLOSEST TO THE DESIGNATED ROADWAY. (CHAPTER 12, SEC. 14A.7.01; CEDAR PARK CODE)
9. A SIGN PERMIT WILL BE OBTAINED FOR ALL SIGNS PROPOSED ON THIS SITE.

- NO FENCING IS ALLOWED WITHIN THE 25' FRONT SETBACK AREA FROM A ROADWAY DESIGNATED IN THE CORRIDOR OVERLAY ORDINANCE. ANY FENCING BEHIND THE 25' FRONT SETBACK IN THE ROADWAY CORRIDOR SHALL BE CONSIDERED A FENCE. FENCES BEHIND THE STREET VEW ARE PLANTING FIVE GALLON EVERGREEN SHRUBS AND VINES THAT WILL, AT MATURITY, SCREEN ALL BUT THIRTY PERCENT (30%) OF THE VIEW OF THE FENCE. CHAIN LINK FENCES SHALL ONLY BE USED FOR ALL OTHER TYPES OF FENCING. FENCES BEHIND THE 25' FRONT SETBACK SHALL BE CHAIN LINK FENCES AND ARE NOT ALLOWED AROUND DETENTION PONDS. (CHAPTER 12, SEC 14A.10; CEDAR PARK CODE)
- TRASH DUMPSTERS OR OTHER PERMANENT OUTDOOR TRASH RECEPTACLES MAY NOT BE LOCATED BEHIND THE 25' FRONT SETBACK. ROADWAYS, OUTDOOR STORAGE OF MATERIALS IS NOT ALLOWED CLOSEST TO THE DESIGNATED ROADWAY. (CHAPTER 12, SEC 14A.70; CEDAR PARK CODE)
- A SIGN PERMIT WILL BE OBTAINED FOR ALL SIGNS PROPOSED ON THIS SITE.
- LOADING AREAS AND GARBAGE DUMPSTERS (OR OTHER PERMANENT OUTDOOR TRASH RECEPTACLES) ARE REQUIRED TO BE SCREENED BY A WALL 5 FT. IN HEIGHT. THE WALL IS REQUIRED TO BE CONSTRUCTED OF THE SAME MATERIAL, OR, VISUALLY COMPATIBLE WITH, THE PRIMARY MATERIALS AND BE COMPRISED OF MASONRY, WOODCRETE OR HARD-PLANK. THE GATE (FORCED TO BE CLOSED) MUST BE CONSTRUCTED OF THE SAME MATERIALS AND AN OPERATING AN FASTENERS TO KEEP THEM CLOSED. (CHAPTER 12, SECTION 14A.70; CEDAR PARK CODE) [CHAPTER 13, SEC 8.10(4),(4)(c),3; CEDAR PARK CODE]
- ANY ABOVE GROUND UTILITY HITS, CONDENSERS, TRANS, COMPRESSORS, OR MECHANICAL UNITS ARE NOT ALLOWED WITHIN THE 25' FRONT SETBACK. ANY ABOVE GROUND UTILITY HITS ARE TO BE SCREENED BY A PARAPET WALL OR VEGETATIVE SCREEN USING AT LEAST TWENTY VARIETIES OF PLANT MATERIAL FROM THE PREFERRED PLANT LIST. [CHAPTER 13, SEC 8.10(4),(4)(c),3; CEDAR PARK CODE]
- WITHIN 400 FEET OF DESIGNATED ROADWAYS, OUTDOOR STORAGE OF MATERIALS IS NOT ALLOWED TO BE VISIBLE FROM THE DESIGNATED ROADWAYS. SUCH MATERIALS ARE REQUIRED TO BE SCREENED AS FOLLOWS:
 - (a) A SIX TO EIGHT FOOT TALL PRIVACY FENCE THAT SCREENS THE STORAGE AREA FROM VIEW OF THE DESIGNATED ROADWAYS. THE PRIVACY FENCE IS REQUIRED TO BE MASONRY OR WOOD WITH MASONRY COLUMNS.
 - (b) A LANDSCAPE BUFFER LOCATED OUTSIDE THE FENCE SO THAT IT IS VISIBLE FROM THE DESIGNATED ROADWAYS. THE LANDSCAPE BUFFER IS REQUIRED TO BE A MINIMUM OF TEN FEET (10' IN WIDTH) AND IS REQUIRED TO CONSIST OF A MINIMUM AREA OF FIFTY PERCENT (50%) LIVE PLANT MATERIAL. THE LANDSCAPE BUFFER IS REQUIRED TO CONTAIN AT LEAST ONE (1) TWO INCH CALIPER CANOPY TREE AND FIVE (5) FIVE GALLON SHRUBS PLANTED FOR EVERY FOURTY LINEAR FEET (40'), ROUNDED TO THE NEAREST WHOLE NUMBER.
 - (c) AN IRRIGATION SYSTEM FOR THE LANDSCAPING. (CHAPTER 12, SEC 14A.20(c); CEDAR PARK CODE)
- ARCHITECTURAL DESIGN SHALL REFLECT THE VERNACULAR TRADITIONS OF THE CENTRAL TEXAS REGION (CHAPTER 11, DIVISION 37; CEDAR PARK CODE)
- ALL EXISTING 4 INCH CALIPER OR LARGER HARDWOOD TREES THAT STAND WITHIN THE 25 FOOT FRONT SETBACK AREA SHALL BE RETAINED AND PROTECTED AS A LANDSCAPE BUFFER. PRESERVATION OF SIGNIFICANT UNDERSTORY VEGETATION (SUCH AS CLUSTERS OF POSSUAMMAH TREES) THAT ARE NOT ALLOWED A DETENTION PLAN IS REQUIRED TO BE PREPARED FOR THIS REQUIREMENT. (CHAPTER 12, SEC 14A.62(b); CEDAR PARK CODE)
- DRAINAGE FACILITIES ARE NOT ALLOWED WITHIN 10' OF THE R.O.W. OF ROADS DESIGNATED IN THE CORRIDOR OVERLAY ORDINANCE EXCEPT THOSE THAT ARE NECESSARY TO CONVEY DRAINAGE IN THE SHORTEST POSSIBLE ROUTE TO OR FROM STREET R.O.W. DRAINAGE FACILITIES MAY NOT EXCEED 25' FROM THE R.O.W. AND ARE REQUIRED TO BE CONSTRUCTED OF CONCRETE, CURBED SHAPES AND MAY NOT INCLUDE ALL DETENTION PONDS, OUTLET STRUCTURES, BERMS, IMPROVED CHANNELS OR OTHER IMPROVEMENTS ASSOCIATED WITH THE DRAINAGE IMPROVEMENTS. DETENTION PONDS WITHIN THE 25' FRONT SETBACK ARE REQUIRED TO BE CONSTRUCTED OF CONCRETE, CURBED SHAPES AND MAY NOT BE DESIGNED SO AS TO REQUIRE FENCING OR CONCRETE WALLS (OR OTHER SIMILAR MATERIAL OUTLET STRUCTURES MAY BE CONCRETE, NATIVE STONE IS ALLOWED IF MORTARED IN PLACE OR OTHERWISE PROTECTED). DETENTION PONDS NOT ALLOWED A DETENTION PLAN IS REQUIRED TO BE PREPARED FOR THE ENTIRE TRACT OR LOT AT THE TIME OF SUBDIVISION, AND SHALL MINIMIZE THE NUMBER OF DETENTION PONDS REQUIRED FOR THE DEVELOPMENT. (CHAPTER 12, SEC 14A.64; CEDAR PARK CODE)
- IT IS THE APPLICANT'S RESPONSIBILITY TO ENSURE ALL PLANS ARE IN COMPLIANCE WITH NOTES ON THE SITE PLAN.

1. PROVIDE WRITTEN NOTIFICATION OF INTENT TO COMMENCE CONSTRUCTION TO THE TCEQ, AUSTIN REGIONAL OFFICE NO LATER THAN 48 HOURS PRIOR TO COMMENCEMENT.
2. INSTALL EROSION CONTROLS AS INDICATED ON APPROVED SITE PLAN.
3. INSTALL TREE PROTECTION AND INITIATE TREE MITIGATION MEASURES.
4. CONTACT CITY OF CEDAR PARK TO SCHEDULE ON-SITE PRECONSTRUCTION COORDINATION MEETING.
5. EVALUATE TEMPORARY EROSION CONTROL INSTALLATION, REVIEW CONSTRUCTION SCHEDULE WITH THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION CONTROL PLAN.
6. BEGIN SITE CLEARING.
7. ROUGH GRADE SITE. INSPECT AND MAINTAIN ALL CONTROLS AS PER GENERAL NOTES.
8. CONSTRUCT SITE UTILITIES.
9. MID-CONSTRUCTION ON-SITE MEETING TO COORDINATE CHANGES IN CONSTRUCTION SCHEDULE AND EVALUATE EFFECTIVENESS OF EROSION CONTROL PLAN (CITY INSPECTOR, PROJECT ENGINEER, GENERAL CONTRACTOR, AND CITY OF CEDAR PARK). IDENTIFY ANTICIPATED COMPLETION DATE AND COORDINATE FINAL CONSTRUCTION SEQUENCE AND INSPECTION SCHEDULE WITH INSPECTOR.
10. CONSTRUCT PARKING, PARKING AND BUILDINGS.
11. COMPLETE CONSTRUCTION AND INSTALL LANDSCAPING.
12. REVEGETATE DISTURBED AREAS OR COMPLETE A DEVELOPERS CONTRACT FOR THE REVEGETATION ALONG WITH THE ENGINEERS CONCURRENCE LETTER.
13. PROJECT ENGINEER INSPECTS JOB AND WRITES CONCURRENCE LETTER TO THE CITY. FINAL INSPECTION IS SCHEDULED UPON RECEIPT OF LETTER.
14. REMOVE TEMPORARY EROSION/SEDIMENTATION CONTROLS UPON SUBSTANTIAL REVEGETATION GROWTH ONSITE.

1. WRITTEN CONSTRUCTION NOTIFICATION MUST BE GIVEN TO THE APPROPRIATE TCEQ REGIONAL OFFICE NO LATER THAN 48 HOURS PRIOR TO COMMENCEMENT OF THE REGULATED ACTIVITY. INFORMATION MUST INCLUDE THE DATE WHEN THE REGULATED ACTIVITY WILL COMMENCE, THE NAME OF THE APPROVED PLAN FOR THE REGULATED ACTIVITY, AND THE NAME OF THE PRIME CONTRACTOR AND THE NAME AND TELEPHONE NUMBER OF THE PROJECT SUPERVISOR.

2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED CONTRIBUTING ZONE PLAN AND THE TCEQ LETTER INDICATING THE DATE WHEN THE REGULATED ACTIVITY MUST COMMENCE. THE TCEQ REGIONAL OFFICE MUST BE NOTIFIED THAT THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.

3. IF ANY SENSITIVE FEATURE 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 SUCH DISCOVERY. UNLESS OTHERWISE APPROVED BY THE TCEQ REGIONAL OFFICE, ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PROCEED UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE SENSITIVE FEATURE AND THE EROWAS ACQUFER FROM ANY POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.

4. NO TEMPORARY ADEGROUND/HIGHLY HYDROCARBON AND HAZARDOUS SUBSTANCE STORAGE TANK SYSTEM IS INSTALLED WITHIN 150 FEET OF A DOMESTIC, INDUSTRIAL, IRRIGATION, OR PUBLIC WATER SUPPLY WELL.

5. PRIOR TO COMMENCEMENT OF CONSTRUCTION, ALL TEMPORARY EROSION AND SEDIMENTATION (E/S) CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE TCEQ REGIONAL OFFICE APPROVED E/S CONTROL PLAN. EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE MAINTAINED THROUGHOUT THE TEMPORARY STORM WATER SECTION OF THE APPROVED EROWAS ACQUFER CONTRIBUTING ZONE PLAN ARE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. IF THE E/S CONTROL MEASURES ARE DAMAGED OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL. FOR SITE SITUATIONS, THE CONSTRUCTION OF A PLACE UNTIL DISTURBED AREAS ARE REVEGETATED AND THE AREAS HAVE BECOME PERMANENTLY STABILIZED.

6. 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., FLOTTING SEDIMENT IN NEARBY WATER BODIES). SEDIMENT MUST BE REMOVED TO A LOCATION THAT DOES NOT INTERFERE WITH THE CONSTRUCTION OF THE PROJECT.

7. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION PONS NOT LATER THAN WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%. A PERMANENT SINK MUST BE PROVIDED THAT CAN INDICATE WHEN THE SEDIMENT ACCUMULATIONS OF THE BASIN VOLUME.

8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES (E.G., SCREENING OUTFALLS, PICKED UP DRAINAGE).

9. ALL SPILLS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON-SITE WITH PROPER E/S CONTROLS.

10. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. 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.

11. THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST: THE DATES WHEN CONSTRUCTION ACTIVITIES OCCURRED, THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASED ON A PORTION OF THE SITE, AND THE DATES WHEN STABILIZATION MEASURES WERE INITIATED.

12. THE HOLDER OF ANY APPROVED EROWAS ACQUFER CONTRIBUTING ZONE 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 BEST MANAGEMENT PRACTICES OR (STRUCTURES), STRUCTURES, BUT NOT LIMITED TO PONS, DAMS, BERMS, SEWAGE TREATMENT PLANTS, AND DIVERSIONARY STRUCTURES.

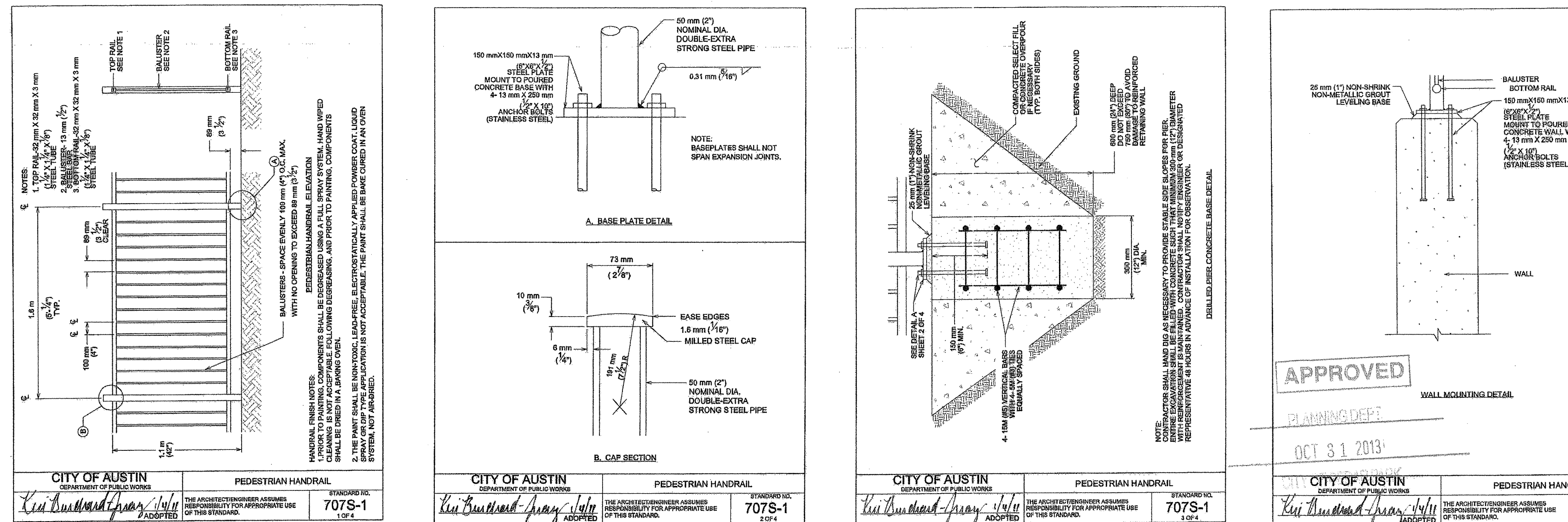
B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPAIR THE ABILITY OF THE PLAN TO PROTECT THE EROWAS ACQUFER FROM ANY POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.

C. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS BEING WITHIN THE ORIGINAL CONTRIBUTING ZONE PLAN.

AUSTIN REGIONAL OFFICE
12001 CEDAR BAY, SUITE 150
AUSTIN, TEXAS 78758-5336
PHONE (512) 339-7279
FAX (512) 339-7274

SAN ANTONIO REGIONAL OFFICE
1200 JORDON ROAD
SAN ANTONIO, TEXAS 78233-4480
PHONE (210) 490-3096
FAX (210) 544-5459

<p>AUSTIN REGIONAL OFFICE 1921 CEDAR BLVD, SUITE 150 AUSTIN, TEXAS 78758-2929 PHONE (512) 339-2929 FAX (512) 339-3795</p>	<p>SAN ANTONIO REGIONAL OFFICE 14250 JAGGON ROAD SAN ANTONIO, TEXAS 78233-4480 PHONE (210) 490-3096 FAX (210) 545-4329</p>
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LOT 4
TWO BUCK SUBDIVISION
FINAL PLAT
SHEET "BB", SLIDES 194-195

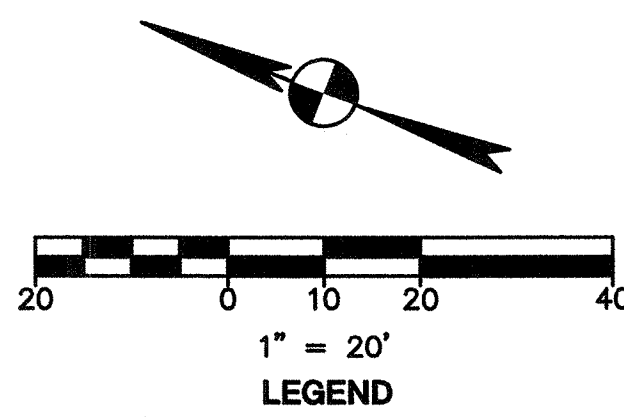
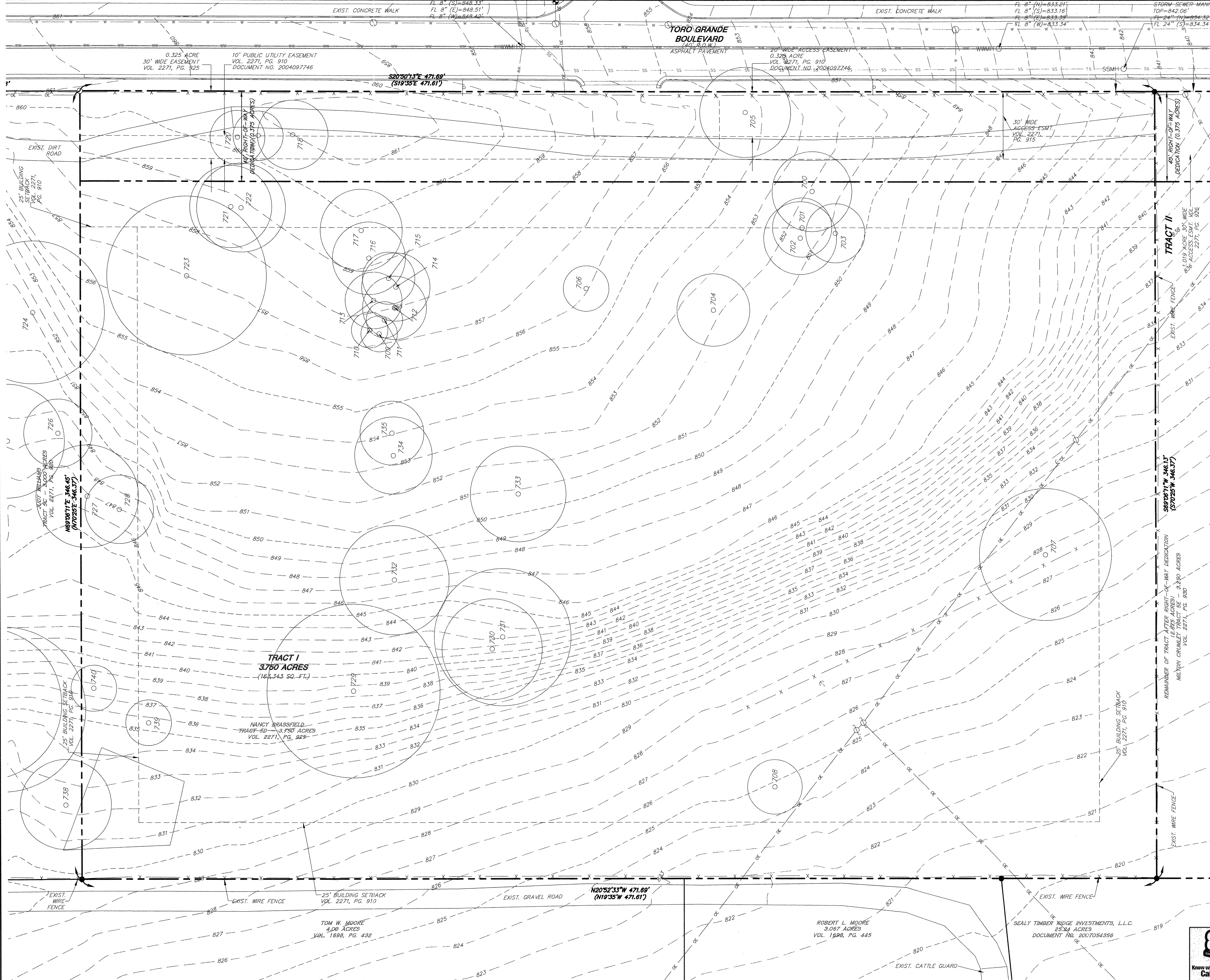
LOT 3
TWO BUCK SUBDIVISION
FINAL PLAT
SHEET "BB", SLIDES 194-195

WASTEWATER MANHOLE
TOP=857.24'
FL 8" (S)=848.35'
FL 8" (E)=848.51'
FL 8" (W)=848.42'

LOT 2
TWO BUCK SUBDIVISION
FINAL PLAT
SHEET "BB", SLIDES 194-195

WASTEWATER MANHOLE
TOP=845.86'
FL 8" (S)=833.31'
FL 8" (E)=833.39'
FL 8" (W)=833.34'

STORM SEWER MANHOLE
TOP=842.06'
FL 24" (S)=834.39'
FL 24" (E)=834.34'



EXISTING	DESCRIPTION
●	PROPERTY (R.O.W.) LINE
○	1/2" IRON ROD SET w/ YELLOW CAP
○	(UNLESS OTHERWISE NOTED)
○	STAMPED "BURY & PARTNERS"
○	RECORD INFORMATION
○	UTILITY POLE
○	DOWN GUY
○	FIRE HYDRANT
○	WATER VALVE
○	WATER METER
○	WATER MANHOLE
○	TELEPHONE RISER
○	CABLE TV RISER
○	ELECTRIC BOX
○	ELECTRIC METER
○	GAS METER
○	GAS VALVE
○	TRAFFIC CONTROL BOX
○	TRAFFIC SIGNAL POST
○	GRATE INLET (SIZE VARIES)
○	CURB INLET (SIZE VARIES)
○	WIRE FENCE
○	WIRE FENCE
○	STORMSEWER LINE
○	WATER LINE
○	WASTEWATER LINE
○	GAS LINE
○	ELECTRIC LINE
○	OVERHEAD ELECTRIC
○	UNDERGROUND TELEPHONE
○	UNDERGROUND CABLE AND INTERNET
○	TELECOMMUNICATIONS LINE
○	ELECTRIC MANHOLE (SIZE VARIES)
○	WASTEWATER MANHOLE (SIZE VARIES)
○	STORMSEWER MANHOLE (SIZE VARIES)
○	TELEPHONE MANHOLE (SIZE VARIES)
○	WASTEWATER CLEANOUT
○	CURB & GUTTER
○	EDGE OF PAVEMENT
○	CONCRETE SIDEWALKS
○	CONTOUR
○	SPOT ELEVATION
○	TREE

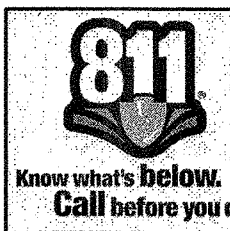
TREE LIST

700	13", 9" LIVE OAK
701	13" LIVE OAK
702	11", 10" LIVE OAK
703	13" LIVE OAK
704	16" LIVE OAK
705	20" LIVE OAK
706	10" ELM (LL)
707	29" CEDAR
708	12" HACKBERRY
709	8" LIVE OAK
710	8" LIVE OAK
711	8", 7", 4" LIVE OAK
712	14" CEDAR
713	7", 6", 5" LIVE OAK
714	10", 10" LIVE OAK
715	8", 7" LIVE OAK
716	13", 6" LIVE OAK
717	11", 8", 6" LIVE OAK
718	12", 7" LIVE OAK
719	11" LIVE OAK
720	12" LIVE OAK
721	18" LIVE OAK
722	11", 8", 5", 4" LIVE OAK
723	23", 13", 11" LIVE OAK
724	26", 11" LIVE OAK
725	25" LIVE OAK
726	15" ELM
727	16", 13" ELM
728	15" LIVE OAK
729	38" LIVE OAK
730	22" LIVE OAK
731	30" LIVE OAK
732	24" LIVE OAK
733	15", 12" LIVE OAK
734	17" LIVE OAK
735	14" ELM
736	33" LIVE OAK
737	36" LIVE OAK
738	20" LIVE OAK
739	10" ELM
740	10" HACKBERRY

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PLANNING DEPT.

OCT 31 2013



THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

APPROVAL

REVISION

DATE

NO.

BURY
221 West Sixth Street, Suite 800
Austin, Texas 78701
Tel: (512) 328-0011 Fax: (512) 328-0325
TBE Registration Number F-1048
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EXISTING BOUNDARY TREE & TOPOGRAPHY PLAN

AUSTIN SPORTS CENTER BRASSFIELD
1401 TORO GRANDE BOULEVARD

AUSTIN SPORTS CENTER

DRAWN BY: G.B. PSD
DESIGNED BY: G.B. DMM
REVIEWED BY: DMM, JRN
PROJECT NO.: 108724-10002

SHEET
3
OF 25

LOT 4
TWO BUCK SUBDIVISION
FINAL PLAT
NET "BB", SLIDES 194-195

LOT 9
TWO BUCK SUBDIVISION
FINAL PLAT
CABINET "BB", SLIDES 194-195

WASTEWATER MANHOLE
TOP=857.24'
FL 8" (N)=848.35'
FL 8" (S)=848.33'
FL 8" (E)=848.51'
FL 8" (W)=848.42'

LOT 2
TWO BUCK SUBDIVISION
FINAL PLAT
CABINET "BB", SLIDES 194-195

WASTEWATER MANHOLE
TOP=845.86'
FL 8" (N)=833.21'
FL 8" (S)=833.16'
FL 8" (E)=833.33'
FL 8" (W)=833.34'

STORM SEWER MANHOLE
TOP=842.06'
FL 24" (N)=834.32'
FL 24" (S)=834.32'
FL 24" (E)=834.32'
FL 24" (W)=834.32'

DEMOLISH & REMOVE
EXISTING CURB & GUTTER

DEMOLISH & REMOVE
EXISTING EDGE
OF ASPHALT

NEAT LINE CUT,
DEMOLISH & REMOVE
EXISTING EDGE
OF ASPHALT
& CURB & GUTTER

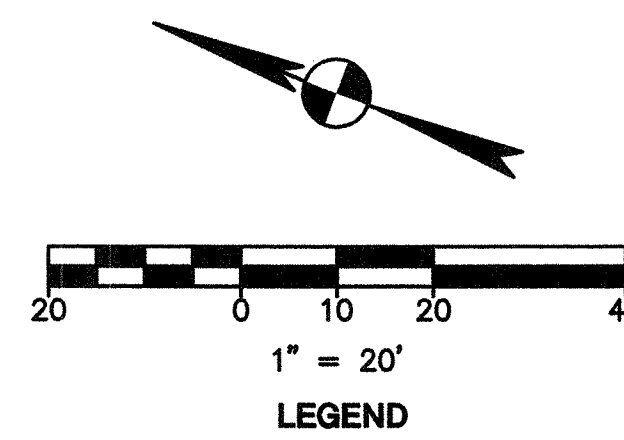
DEMOLISH & REMOVE
EXISTING CURB & GUTTER

DEMOLISH & REMOVE
EXISTING FENCE LINE

DEMOLISH & REMOVE
EXISTING GRAVEL ROAD

PAVEMENT CUT FOR
INSTALLATION OF PROPOSED
WATER SERVICE LINE
FULL DEPTH PAVEMENT
TRENCH REPAIR PER DETAIL
SHEET 13
3.5" HWAC
12" FLEXIBLE BASE
8" COMPACTED SUBGRADE

DEMOLISH & REMOVE
EXISTING FENCE LINE



EXISTING	DESCRIPTION
●	PROPERTY (R.O.W.) LINE
○	1/2" IRON ROD FOUND (UNLESS OTHERWISE NOTED)
○	1/2" IRON ROD SET w/YELLOW CAP STAMPED "BURY & PARTNERS"
○	RECORD INFORMATION
○	LIGHT POLE
○	UTILITY POLE
○	DOWN GUY
○	FIRE HYDRANT
○	WATER VALVE
○	WATER METER
○	WATER MANHOLE
○	TELEPHONE RISER
○	CABLE TV RISER
○	ELECTRIC BOX
○	ELECTRIC METER
○	GAS METER
○	GAS VALVE
○	TRAFFIC CONTROL BOX
○	TRAFFIC SIGNAL POST
○	GRATE INLET
○	CURB INLET (SIZE VARIES)
○	WIRE FENCE
○	SIGN
○	STORMSEWER LINE
○	WATER LINE
○	WASTEWATER LINE
○	GAS LINE
○	ELECTRIC LINE
○	OVERHEAD ELECTRIC
○	UNDERGROUND TELEPHONE
○	UNDERGROUND CABLE AND INTERNET
○	TELECOMMUNICATIONS LINE
○	ELECTRIC MANHOLE (SIZE VARIES)
○	WASTEWATER MANHOLE (SIZE VARIES)
○	STORMSEWER MANHOLE (SIZE VARIES)
○	TELEPHONE MANHOLE (SIZE VARIES)
○	WASTEWATER CLEANOUT
○	CURB & GUTTER
○	EDGE OF PAVEMENT
○	CONCRETE SIDEWALKS
○	CONTOUR
○	SPOT ELEVATION
○	TREE TO BE REMOVED
○	TREE TO BE SAVED

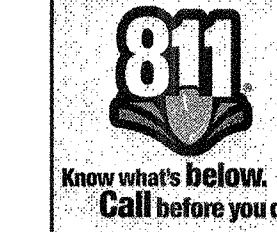
TREE LIST

- (R) - TREE TO BE REMOVED
- | | |
|---------|--------------------------|
| 700 | 13", 9" LIVE OAK |
| 701 | 13" LIVE OAK |
| 702 | 11", 10" LIVE OAK |
| 703 | 13" LIVE OAK |
| (R) 704 | 18" LIVE OAK |
| (R) 705 | 20" LIVE OAK |
| 706 | 10" ELM (ILL) |
| 707 | 29" CEDAR |
| (R) 708 | 12" HACKBERRY |
| (R) 709 | 8" LIVE OAK |
| (R) 710 | 8" LIVE OAK |
| (R) 711 | 8", 7", 4" LIVE OAK |
| (R) 712 | 14" CEDAR |
| (R) 713 | 7", 6", 5" LIVE OAK |
| (R) 714 | 10", 10" LIVE OAK |
| (R) 715 | 8", 7" LIVE OAK |
| (R) 716 | 13", 6" LIVE OAK |
| (R) 717 | 11", 8", 6" LIVE OAK |
| (R) 718 | 12", 7" LIVE OAK |
| (R) 719 | 11" LIVE OAK |
| (R) 720 | 12" LIVE OAK |
| (R) 721 | 18" LIVE OAK |
| (R) 722 | 11", 8", 5", 4" LIVE OAK |
| (R) 723 | 23", 13", 11" LIVE OAK |
| 724 | 26", 11" LIVE OAK |
| 725 | 25" LIVE OAK |
| 726 | 15" ELM |
| 727 | 16", 13" ELM |
| 728 | 15" LIVE OAK |
| 729 | 38" LIVE OAK |
| 730 | 22" LIVE OAK |
| 731 | 30" LIVE OAK |
| (R) 732 | 24" LIVE OAK |
| (R) 733 | 15", 12" LIVE OAK |
| (R) 734 | 17" LIVE OAK |
| (R) 735 | 14" ELM |
| 736 | 33" LIVE OAK |
| 737 | 36" LIVE OAK |
| 738 | 20" LIVE OAK |
| 739 | 10" ELM |
| 740 | 10" HACKBERRY |

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PLANNING DEPT.

OCT 31 2013



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APPROVAL

REVISION

DATE

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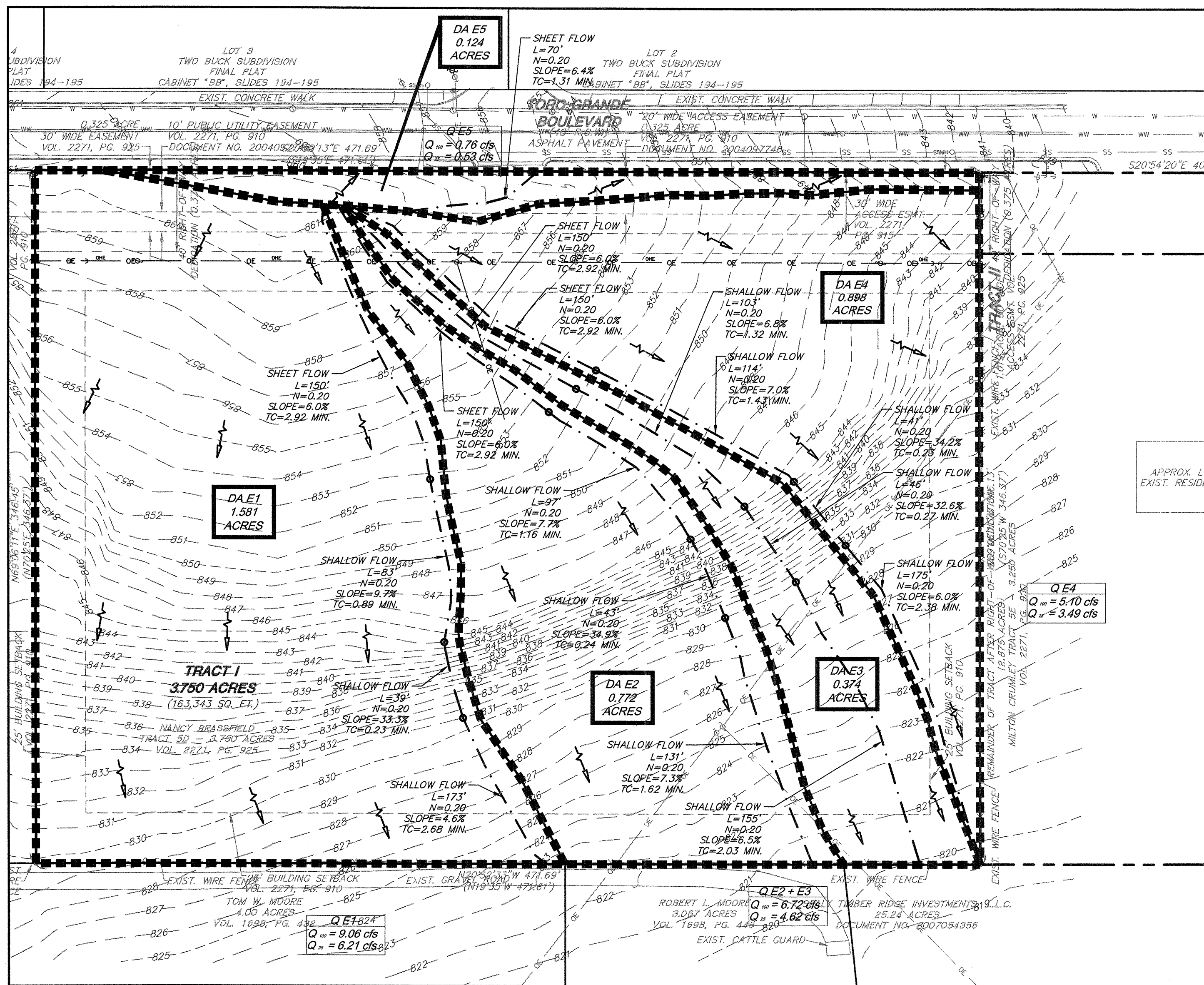
DEMOLITION PLAN

AUSTIN SPORTS CENTER BRASSFIELD
1401 TORO GRANDE BOULEVARD

AUSTIN SPORTS CENTER

DRAWN BY: G.B. PSD
DESIGNED BY: G.B. DMM
REVIEWED BY: DMM, JRN
PROJECT NO.: 108724-10002

SHEET
4
OF 25



EXISTING DRAINAGE AREA MAP

SCALE: 1"=40'

EXISTING DRAINAGE CALCULATIONS

AREA	Event	2-yr	10-yr	25-yr	100-yr	Acres	
E1	Event	2-yr	10-yr	25-yr	100-yr	Acres	
1.58	1.58	1.58	1.58	1.58	1.58	%	
C	0.33	0.38	0.42	0.49	1.581	100.00	Pasture 2-7%
Tc	6.71	6.71	6.71	6.71	0.000	0.00	Grass
I	5.30	7.90	9.34	11.70	0.000	0.00	Concrete
Q	2.77	4.74	6.21	9.06	0.000	0.00	Asphalt

AREA	Event	2-yr	10-yr	25-yr	100-yr	Acres	
E2	Event	2-yr	10-yr	25-yr	100-yr	Acres	
0.77	0.77	0.77	0.77	0.77	0.77	%	
C	0.33	0.38	0.42	0.49	0.772	100.00	Pasture 2-7%
Tc	5.94	5.94	5.94	5.94	0.000	0.00	Grass
I	5.50	8.18	9.67	12.06	0.000	0.00	Concrete
Q	1.40	2.40	3.14	4.56	0.000	0.00	Asphalt

AREA	Event	2-yr	10-yr	25-yr	100-yr	Acres	
E3	Event	2-yr	10-yr	25-yr	100-yr	Acres	
0.37	0.37	0.37	0.37	0.37	0.37	%	
C	0.33	0.38	0.42	0.49	0.374	100.00	Pasture 2-7%
Tc	6.54	6.54	6.54	6.54	0.000	0.00	Grass
I	5.34	7.96	9.42	11.78	0.000	0.00	Concrete
Q	0.86	1.13	1.48	2.16	0.000	0.00	Asphalt

AREA	Event	2-yr	10-yr	25-yr	100-yr	Acres	
E4	Event	2-yr	10-yr	25-yr	100-yr	Acres	
0.90	0.90	0.90	0.90	0.90	0.90	%	
C	0.33	0.38	0.42	0.49	0.898	100.00	Pasture 2-7%
Tc	6.97	6.97	6.97	6.97	0.000	0.00	Grass
I	5.24	7.81	9.24	11.59	0.000	0.00	Concrete
Q	1.55	2.66	3.49	5.10	0.000	0.00	Asphalt

AREA	Event	2-yr	10-yr	25-yr	100-yr	Acres	
E5	Event	2-yr	10-yr	25-yr	100-yr	Acres	
0.12	0.12	0.12	0.12	0.12	0.12	%	
C	0.33	0.38	0.42	0.49	0.124	100.00	Pasture 2-7%
Tc	5.00	5.00	5.00	5.00	0.000	0.00	Grass
I	5.78	8.57	10.11	12.54	0.000	0.00	Concrete
Q	0.24	0.40	0.53	0.76	0.000	0.00	Asphalt

PROPOSED DRAINAGE CALCULATIONS

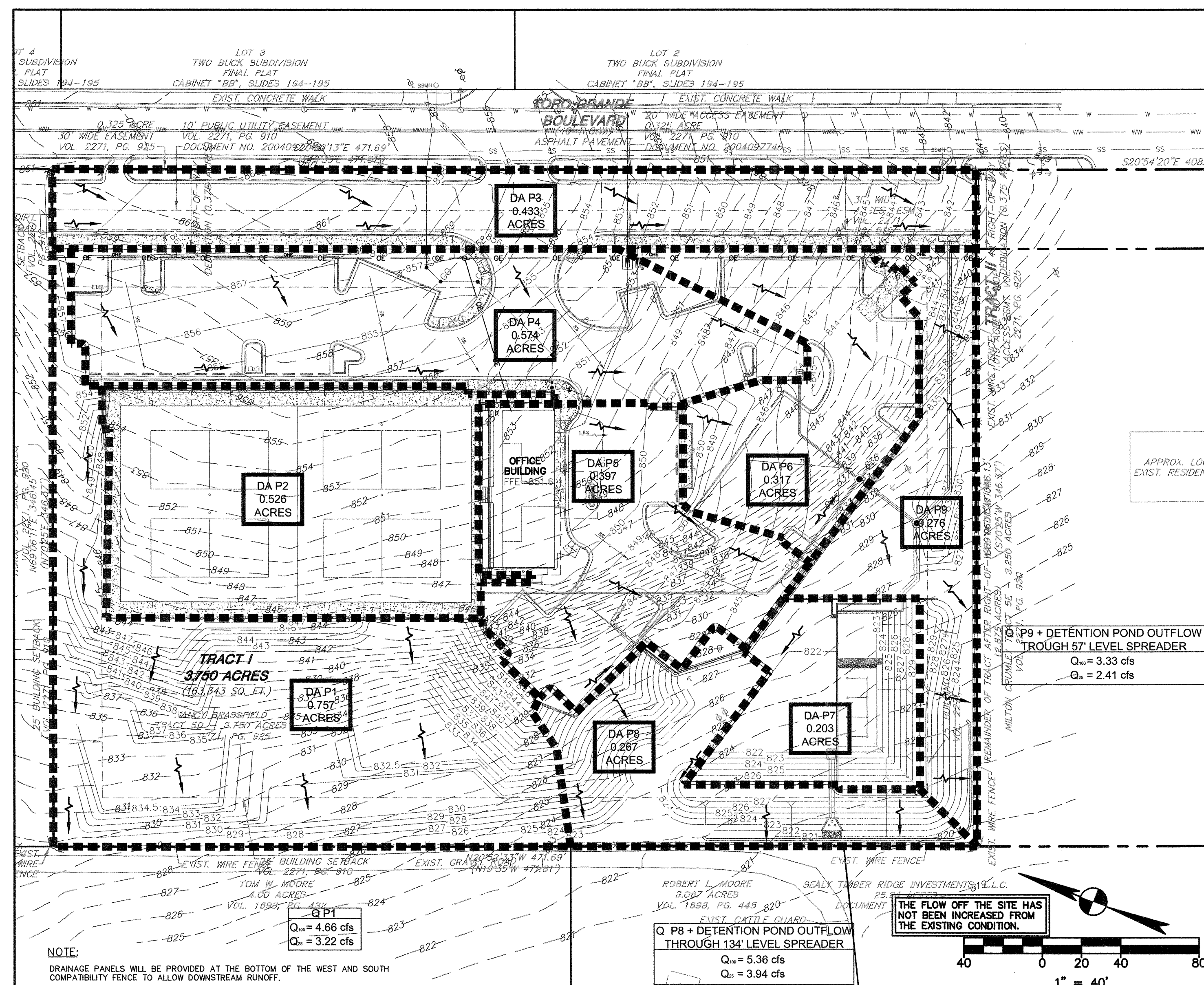
AREA	Event	2-yr	10-yr	25-yr	100-yr	Acres	
P1	Event	2-yr	10-yr	25-yr	100-yr	Acres	
0.76	0.76	0.76	0.76	0.76	0.76	%	
C	0.33	0.38	0.42	0.49	0.758	99.87	Pasture 2-7%
Tc	5.00	5.00	5.00	5.00	0.000	0.00	Grass
I	5.78	8.57	10.11	12.54	0.001	0.13	Concrete
Q	1.44	2.47	3.22	4.66	0.000	0.00	Asphalt

AREA	Event	2-yr	10-yr	25-yr	100-yr	Acres	
P2	Event	2-yr	10-yr	25-yr	100-yr	Acres	
0.53	0.53	0.53	0.53	0.53	0.53	%	
C	0.33	0.38	0.42	0.49	0.000	0.00	Pasture 2-7%
Tc	5.00	5.00	5.00	5.00	0.413	78.51	Grass
I	5.78	8.57	10.11	12.54	0.113	21.49	Concrete
Q	0.99	1.69	2.22	3.24	0.000	0.00	Asphalt

AREA	Event	2-yr	10-yr	25-yr	100-yr	Acres	
P3	Event	2-yr	10-yr	25-yr	100-yr	Acres	
0.43	0.43	0.43	0.43	0.43	0.43	%	
C	0.67	0.74	0.79	0.88	0.000	0.00	Pasture 2-7%
Tc	5.00	5.00	5.00	5.00	0.065	16.05	Grass
I	5.78	8.57	10.11	12.54	0.368	84.95	Concrete
Q	1.67	2.76	3.46	4.77	0.000	0.00	Asphalt

AREA	Event	2-yr	10-yr	25-yr	100-yr	Acres	
P4	Event	2-yr	10-yr	25-yr	100-yr	Acres	
0.57	0.57	0.57	0.57	0.57	0.57	%	
C	0.68	0.73	0.78	0.87	0.000	0.00	Pasture 2-7%
Tc	5.00	5.00	5.00	5.00	0.098	16.67	Grass
I	5.78	8.57	10.11	12.54	0.479	83.33	Concrete
Q	2.18	3.61	4.54	6.25	0.000	0.00	Asphalt

AREA	*P5				Acres		
Event	2-yr	10-yr	25-yr	100-yr	0.397		
A	0.40	0.40	0.40	0.40	Area	%	
C	0.73	0.81	0.86	0.95	0.000	0.00	Pasture 2-7%
Tc	5.00	5.00	5.00	5.00	0.013	3.35	Grass
I	5.78	8.57	10.11	12.54	0.383	96.65	Concrete
Q	1.67	2.76	3.45	4.73	0.000	0.00	Asphalt
						100.00	



PROPOSED DRAINAGE AREA MAP

SCALE: 1"=40'

Detention Pond Control Structure & Flow Spreader Outflow Summary

Storm Event	Elevation (FT)	Outflow (CFS)	Outflow Distributed in 134 LF of Spreader (CFS)	Outflow Distributed in 57 LF of Spreader (CFS)
100-YR	828.22	5.23	3.67	1.56
25-YR	827.08	3.95	2.77	1.18
10-YR	826.26	3.11	2.18	0.93
2-YR	824.41	1.49	1.05	0.44

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY (R.O.W.) LINE
		DIRECTION OF FLOW
		CONTOUR
		DRAINAGE AREA NUMBER
		DRAINAGE DIVIDE
		TIME OF CONCENTRATION

APPROVED

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OCT 31 2013

CITY OF AUSTIN



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AUSTIN SPORTS CENTER BRASSFIELD
1401 TORO GRANDE BOULEVARD
AUSTIN SPORTS CENTER

BURYTM

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REVISION

NO.

DATE

DRAWN BY: G.B., PSD
DESIGNED BY: G.B., DMM
REVIEWED BY: DMM, JRN
PROJECT NO.: 108724-10002

SHEET

5

OF 25

LOT 4
TWO BUCK SUBDIVISION
FINAL PLAT
SHEET "BB", SLIDES 194-195

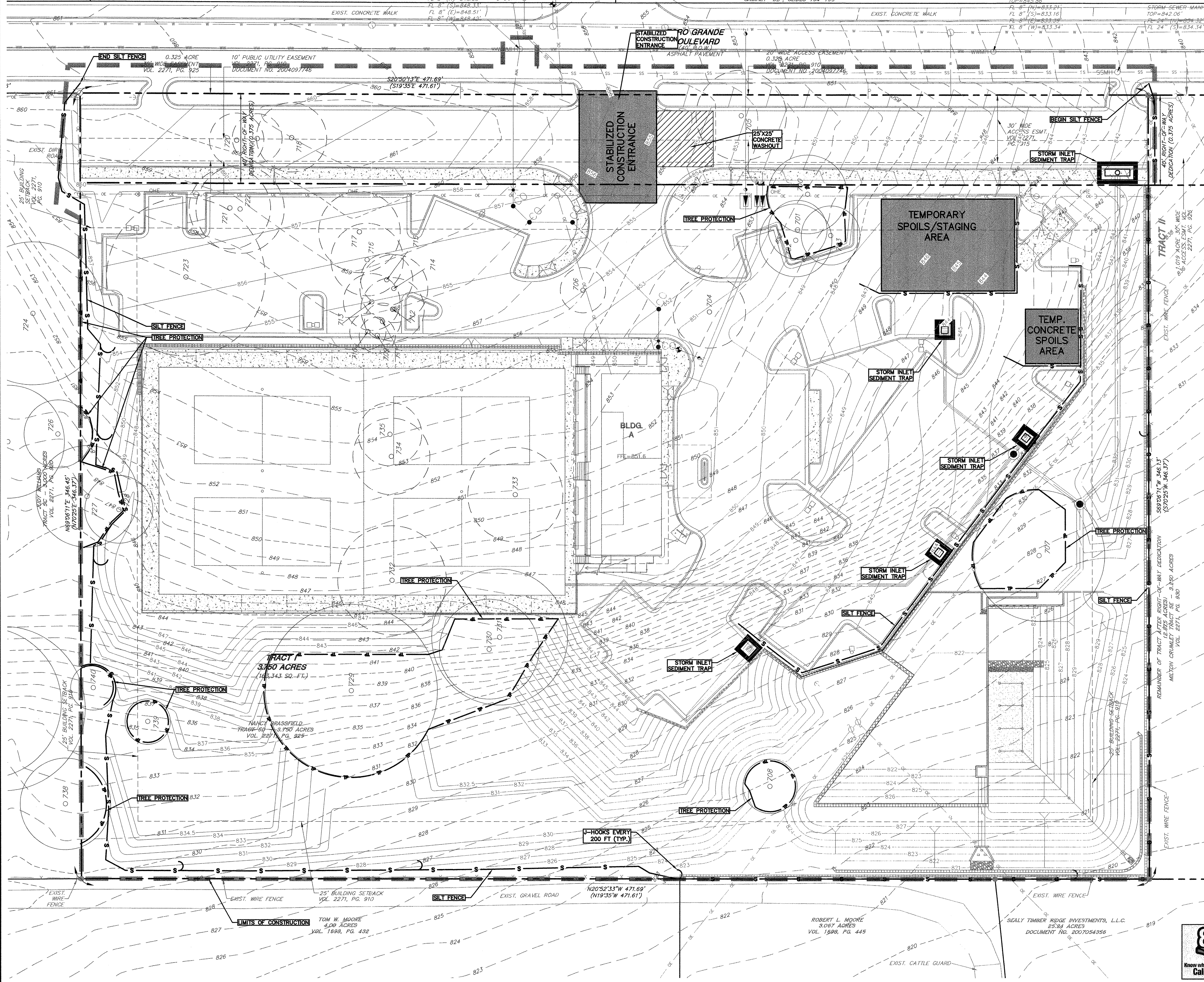
LOT 3
TWO BUCK SUBDIVISION
FINAL PLAT
SHEET "BB", SLIDES 194-195

WASTEWATER MANHOLE
TOP=857.24'
FL 8" (S)=848.33'
FL 8" (E)=848.51'
FL 8" (W)=848.43'

LOT 2
TWO BUCK SUBDIVISION
FINAL PLAT
SHEET "BB", SLIDES 194-195

WASTEWATER MANHOLE
TOP=845.86'
FL 8" (S)=833.21'
FL 8" (E)=833.16'
FL 8" (W)=833.34'

STORM-SEWER MANHOLE
TOP=842.06'
FL 24" (S)=834.33'
FL 24" (E)=834.33'
FL 24" (W)=834.33'



LEGEND		DESCRIPTION
EXISTING	PROPOSED	
0000	0	PROPERTY (R.O.W.) LINE
0001	1	RECORD INFORMATION
0002	2	LIGHT POLE
0003	3	POWER POLE
0004	4	DOWN GUY
0005	5	TRANSFORMER (SIZE VARIES)
0006	6	FIRE HYDRANT
0007	7	WATER VALVE
0008	8	WATER METER
0009	9	WATER METER VAULT
0010	10	WATER MANHOLE
0011	11	TELEPHONE RISER
0012	12	CABLE TV RISER
0013	13	ELECTRIC BOX
0014	14	ELECTRIC METER
0015	15	GAS METER
0016	16	GAS VALVE
0017	17	TRAFFIC CONTROL BOX
0018	18	TRAFFIC SIGNAL POST
0019	19	GRATE INLET
0020	20	CURB INLET (SIZE VARIES)
0021	21	GREASE TRAP (SIZE VARIES)
0022	22	STORMSEWER LINE
0023	23	WATER LINE
0024	24	FIRE LINE
0025	25	WASTEWATER LINE
0026	26	GAS LINE
0027	27	ELECTRIC LINE
0028	28	OVERHEAD ELECTRIC
0029	29	UNDERGROUND TELEPHONE
0030	30	UNDERGROUND CABLE AND INTERNET
0031	31	TELECOMMUNICATIONS LINE
0032	32	ELECTRIC MANHOLE (SIZE VARIES)
0033	33	WASTEWATER MANHOLE (SIZE VARIES)
0034	34	STORMSEWER MANHOLE (SIZE VARIES)
0035	35	TELEPHONE MANHOLE (SIZE VARIES)
0036	36	WASTEWATER CLEANOUT
0037	37	CURE & QUITE
0038	38	EDGE OF PAVEMENT
0039	39	DUMPSTER
0040	40	CONCRETE SIDEWALKS
0041	41	WALL
0042	42	TREE TO BE REMOVED
0043	43	TREE TO BE SAVED
0044	44	TRIANGULAR FILTER DIKE
0045	45	TREE PROTECTION
0046	46	SILT FENCE
0047	47	LIMITS OF CONSTRUCTION
0048	48	LIMITS OF CONSTRUCTION
0049	49	INLET PROTECTION CEDAR PARK
0050	50	STORM INLET SEDIMENT TRAP
0051	51	STABILIZED CONSTRUCTION ENTRANCE
0052	52	DIRECTION OF FLOW
0053	53	CONTOUR

- NOTES:
- INSPECTOR HAS THE AUTHORITY TO ADD/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF CEDAR PARK RULES AND REGULATIONS.
 - CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER E.C.M.1.4.5(A), OR AS DIRECTED BY THE INSPECTOR.
 - IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP, OR REVEGETATION MATTING. [ECM 1.4.4.8.3., SECTION 5.1]
 - WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.
 - CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS AT A MINIMUM OF ONCE DAILY.
 - PROVIDE CITY OF CEDAR PARK STORM INLET SEDIMENT TRAP ON ALL PROPOSED CURB AND/OR AREA INLETS PER DETAIL SHEET.
 - PROVIDE STORM INLET PROTECTION PER COA DETAIL 628S-2 ON ALL EXISTING INLETS.

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AUSTIN SPORTS CENTER BRASSFIELD
1401 TORO GRANDE BOULEVARD

AUSTIN SPORTS CENTER

DRAWN BY: GJB, PSD

DESIGNED BY: GJB, DMM

REVIEWED BY: DMM, JRN

PROJECT NO.: 108724-10002

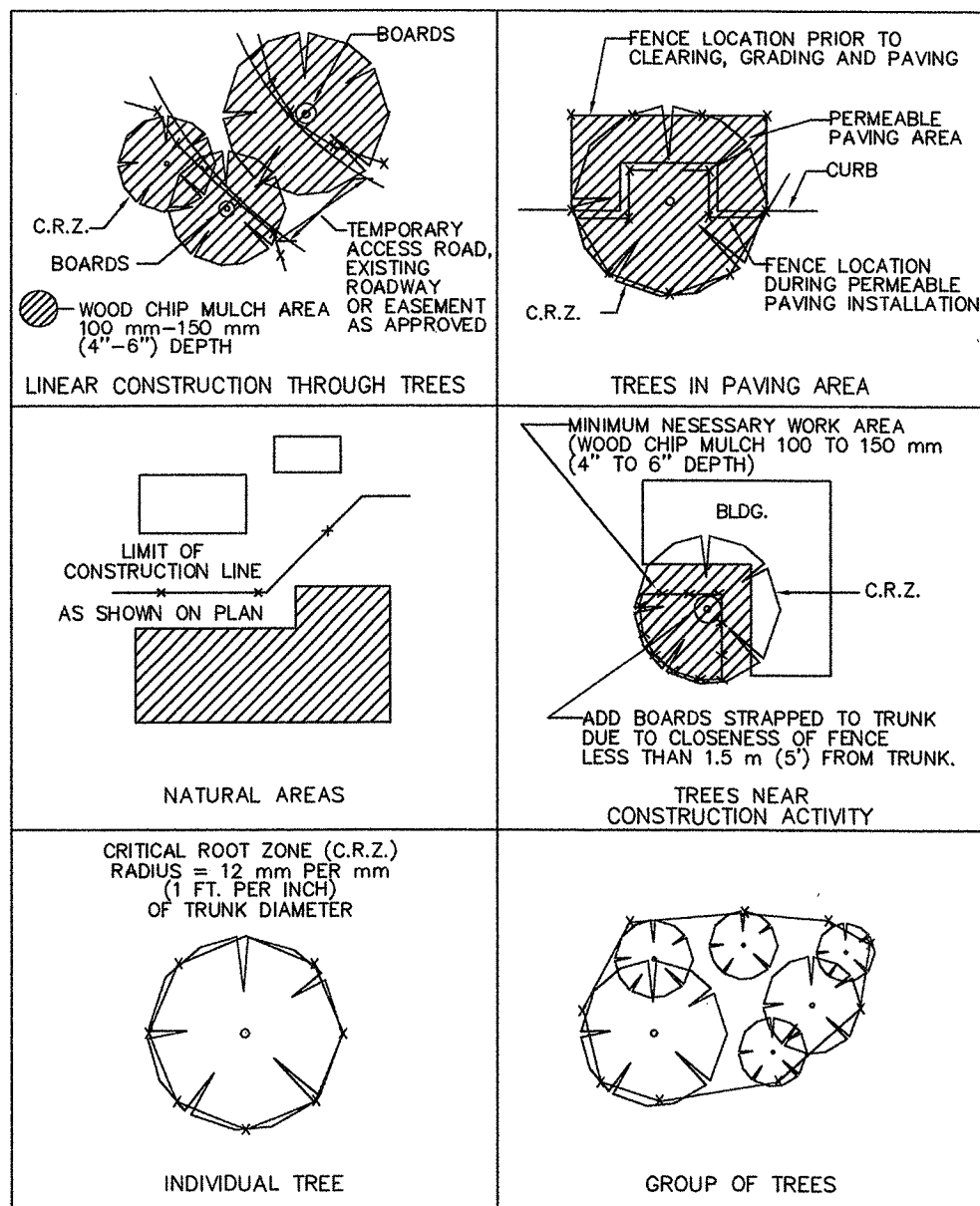
SHEET
6
OF 25

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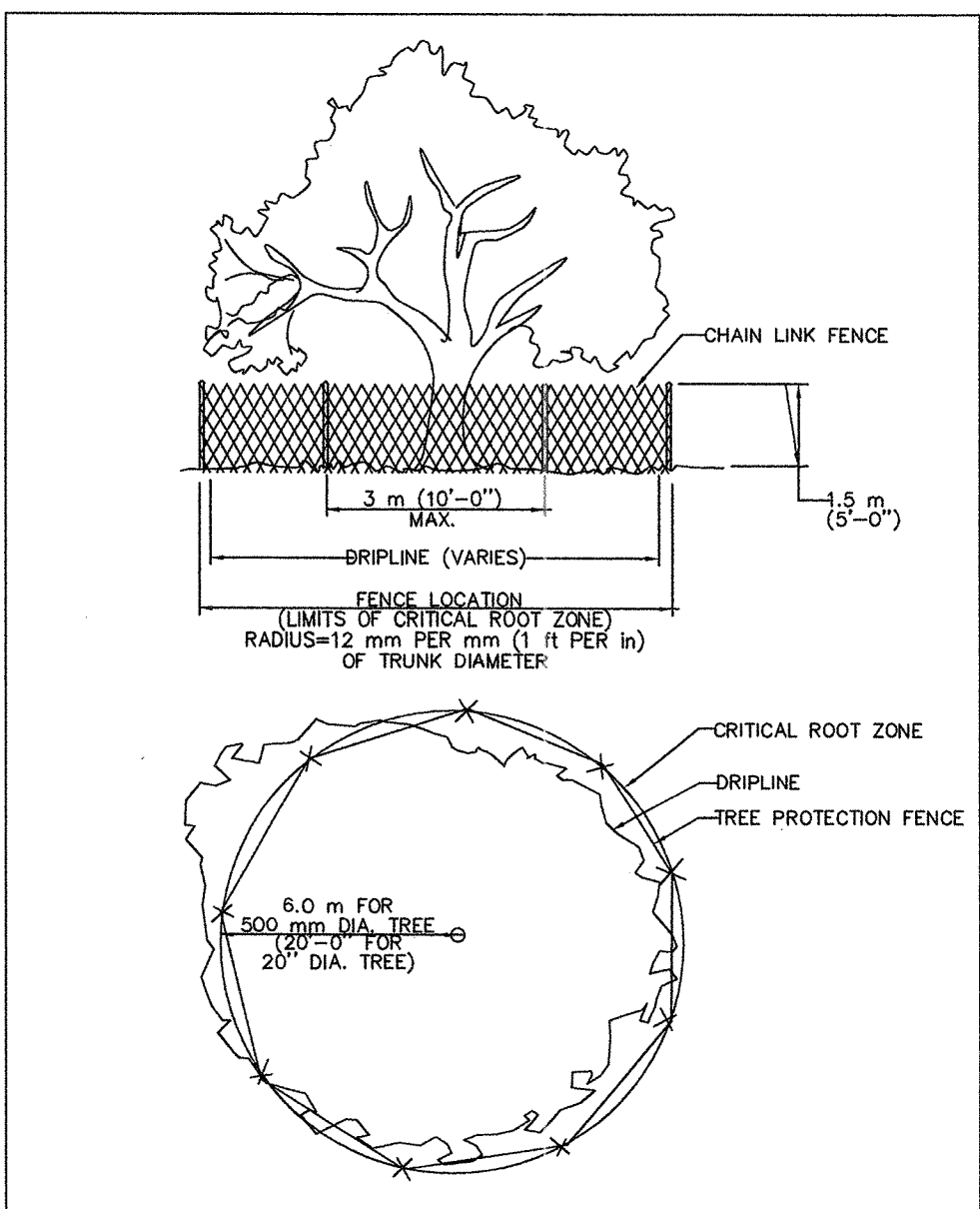
STATE OF TEXAS
DANIEL M. MAHONEY
111560
LICENSED PROFESSIONAL ENGINEER
C-24-2013

**EROSION & SEDIMENTATION
CONTROL PLAN**

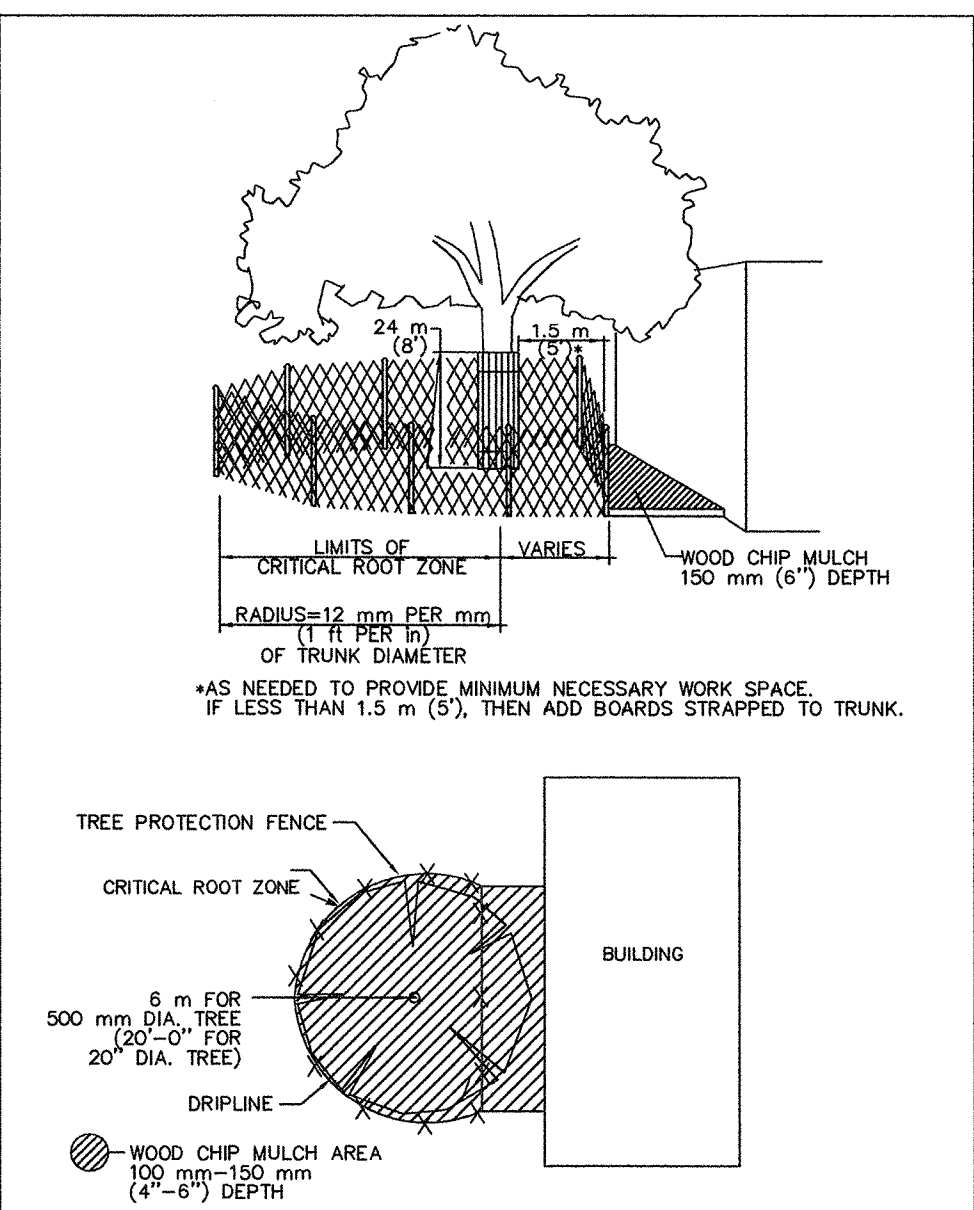
SD-13-00005



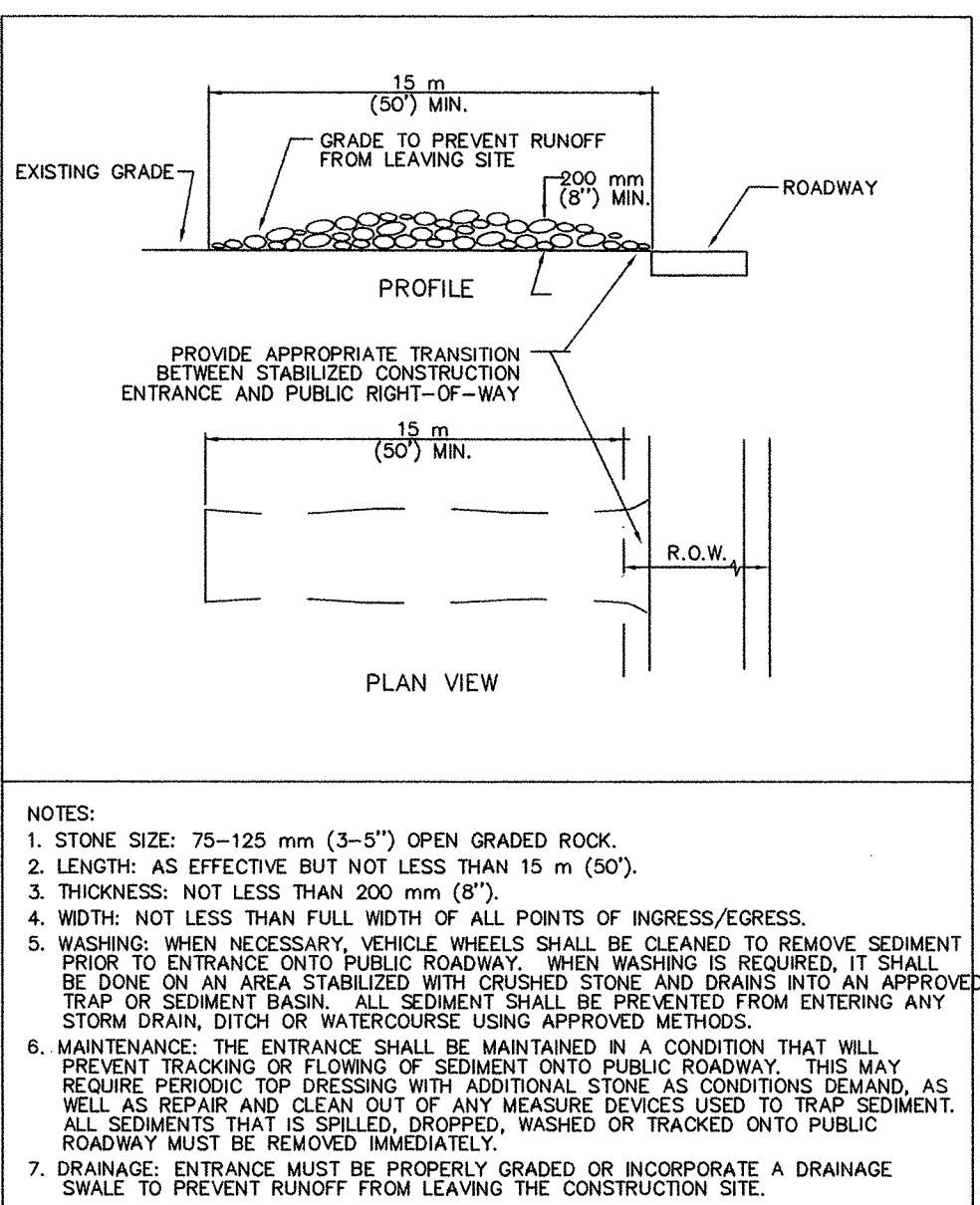
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WATERSHED PROTECTION DEPARTMENT
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ADAPTED
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STANDARD NO. 610S-1



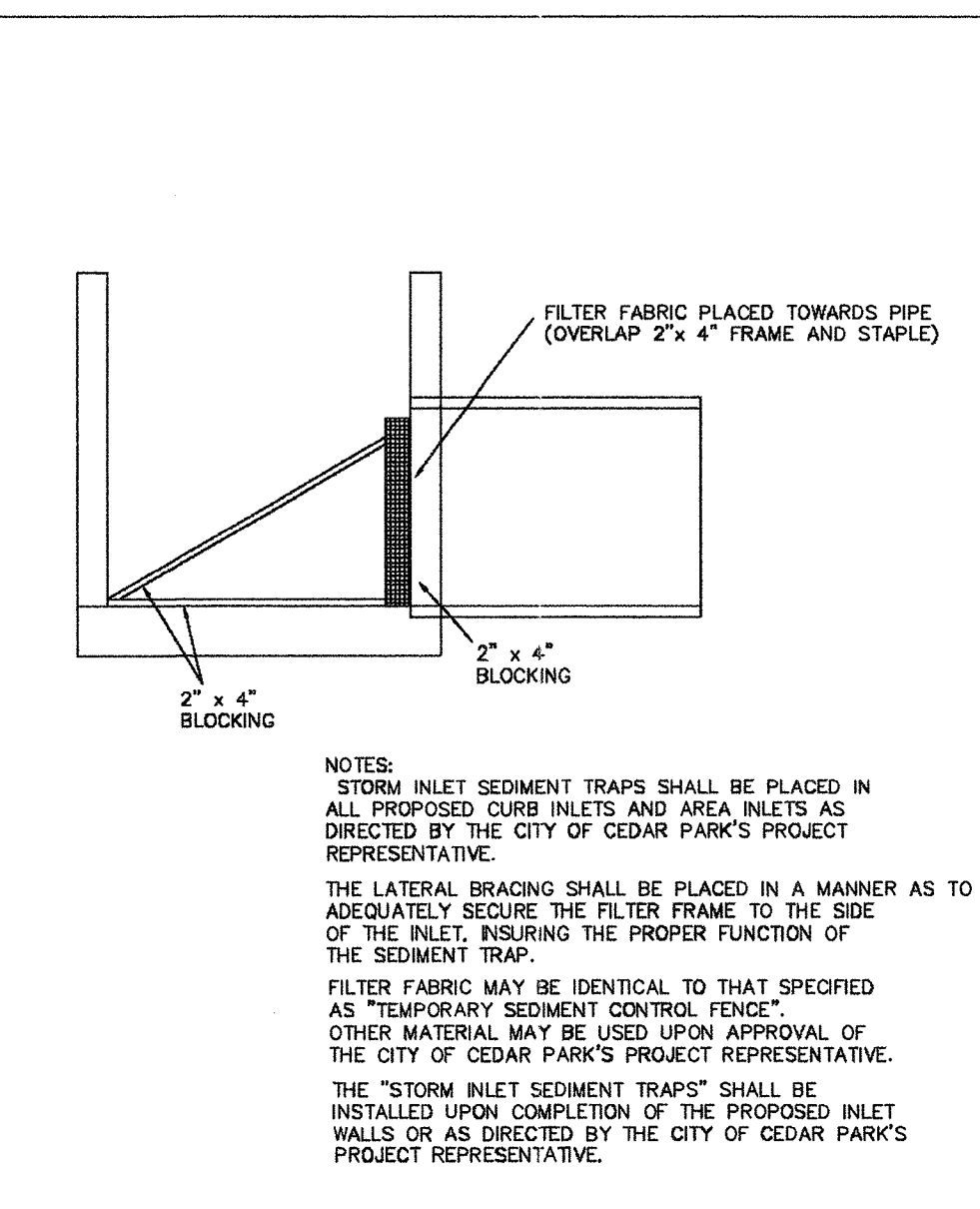
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STANDARD NO. 610S-2



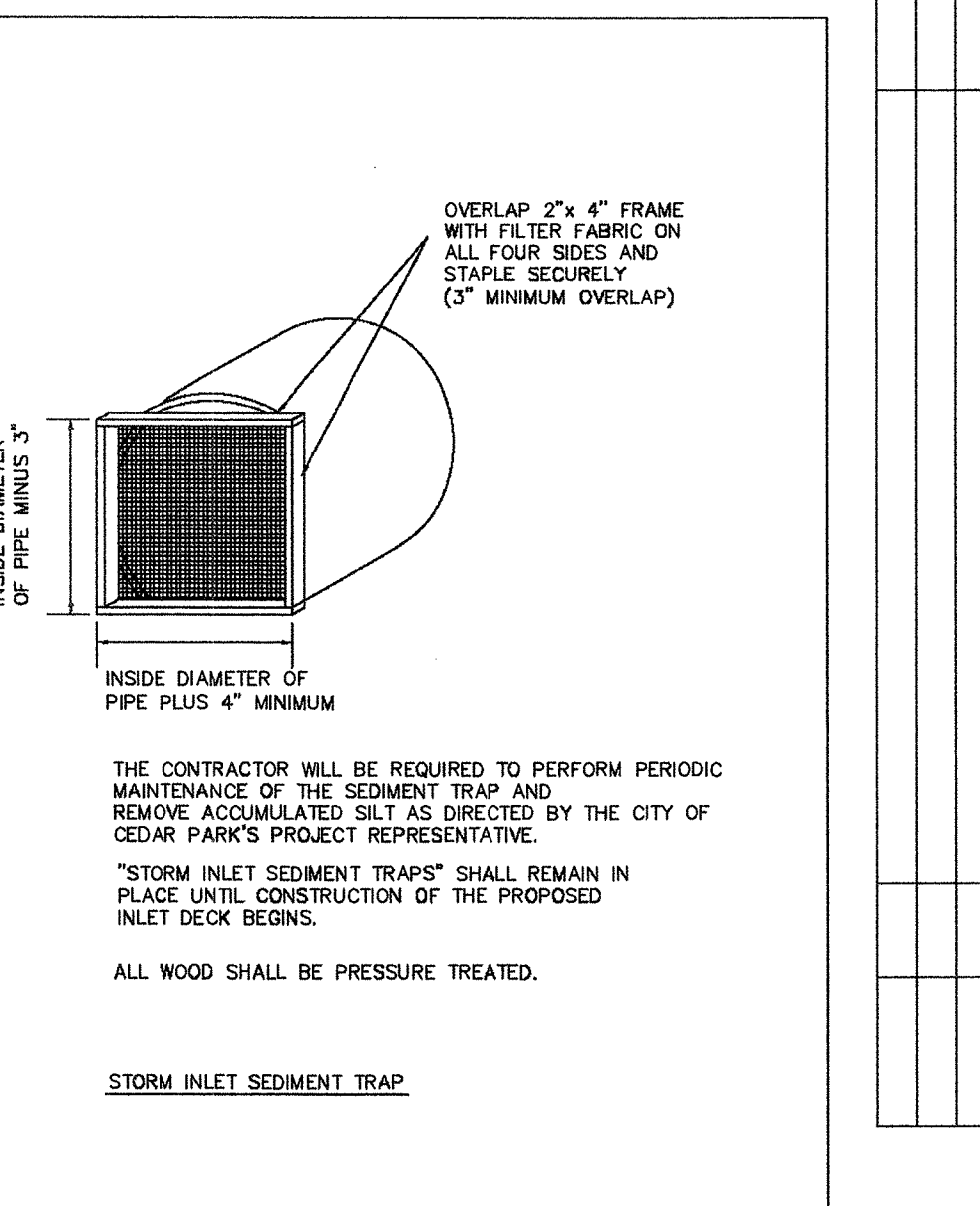
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WATERSHED PROTECTION DEPARTMENT
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STANDARD NO. 610S-4



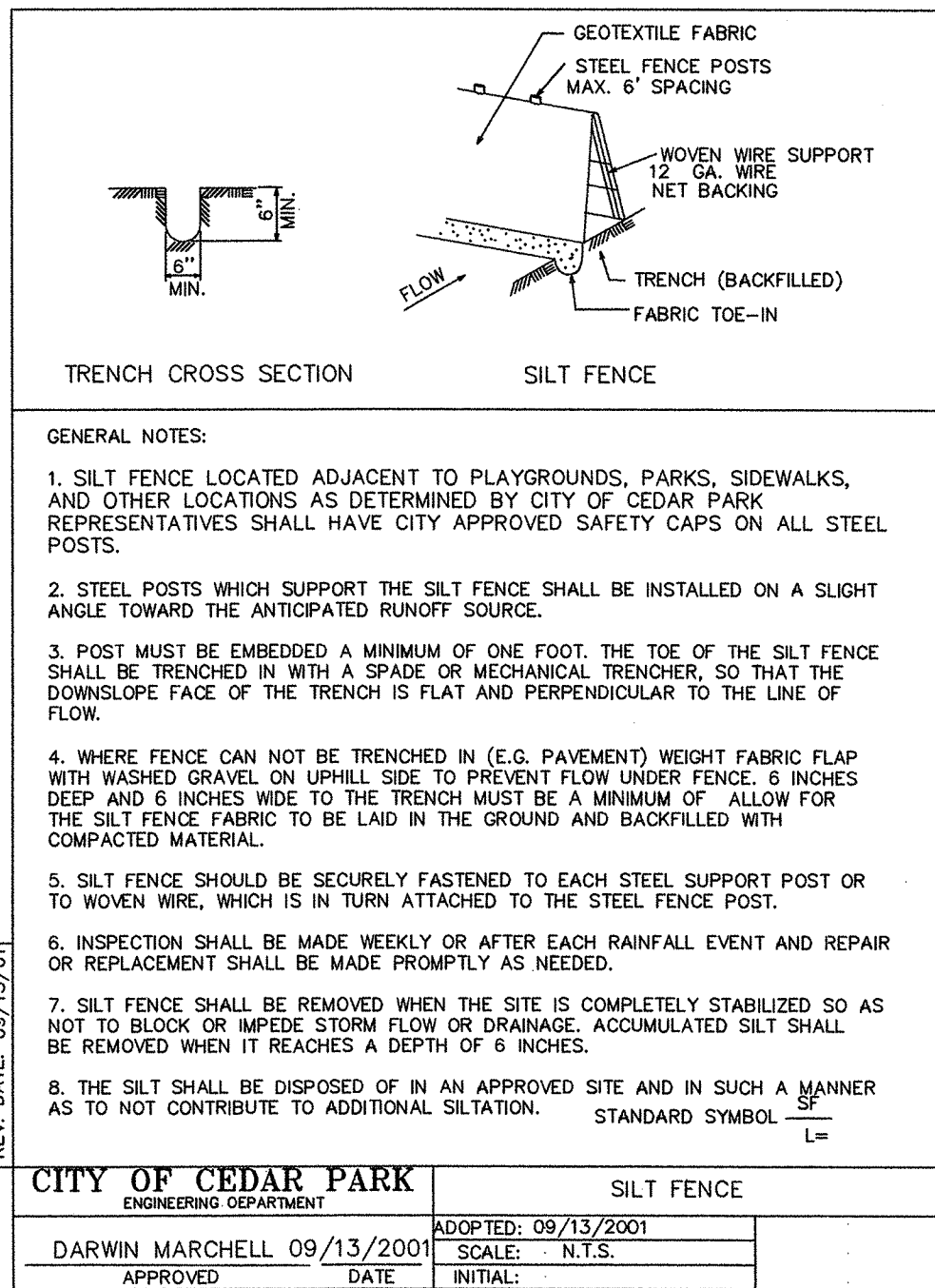
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WATERSHED PROTECTION DEPARTMENT
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STANDARD NO. 641S-1



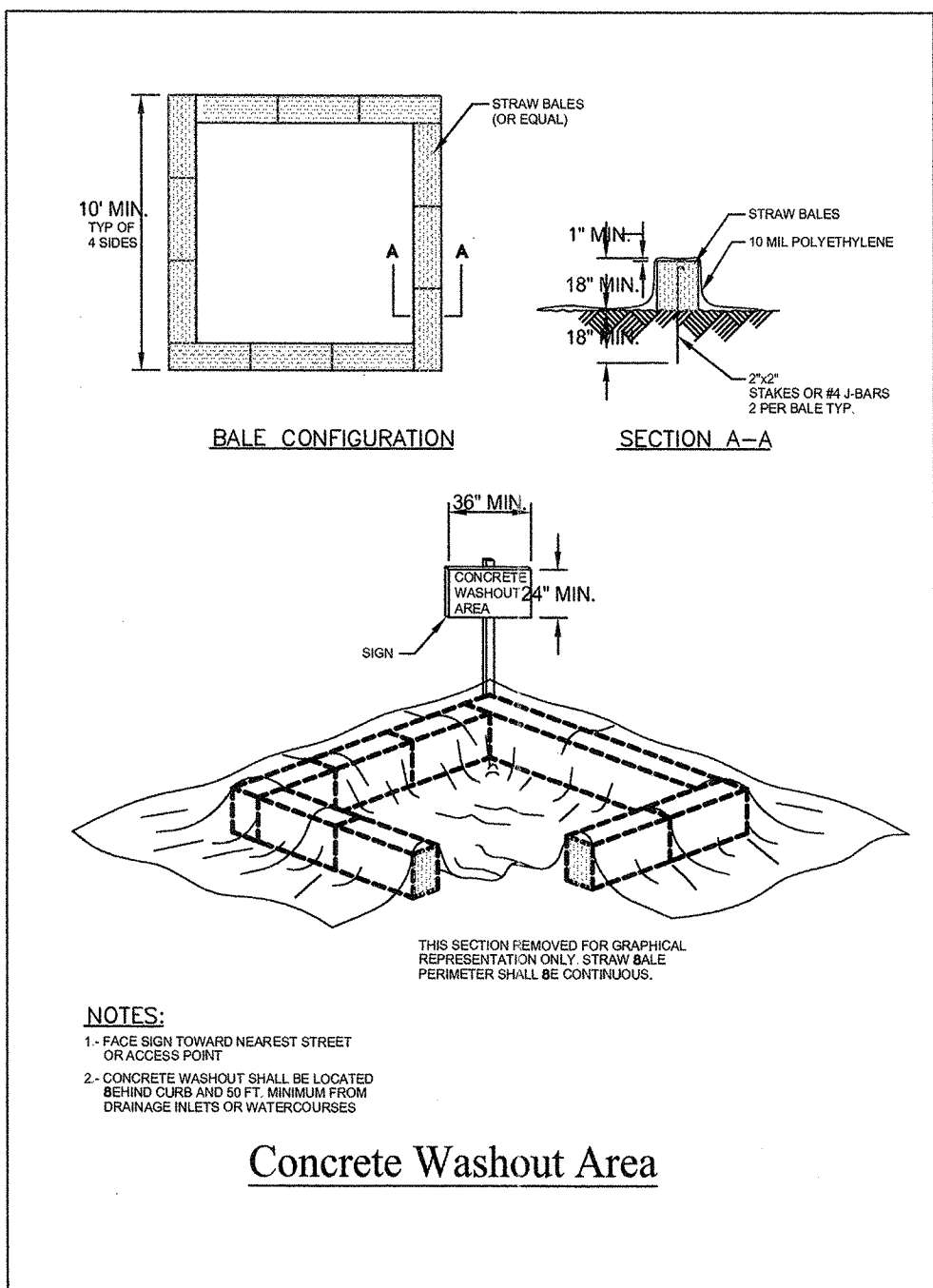
CITY OF CEDAR PARK
PUBLIC WORKS ENGINEERING
RECORD COPY SIGNED BY DARWIN MARCHELL, P.E. 07/22/01
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STANDARD NO. 628S-2



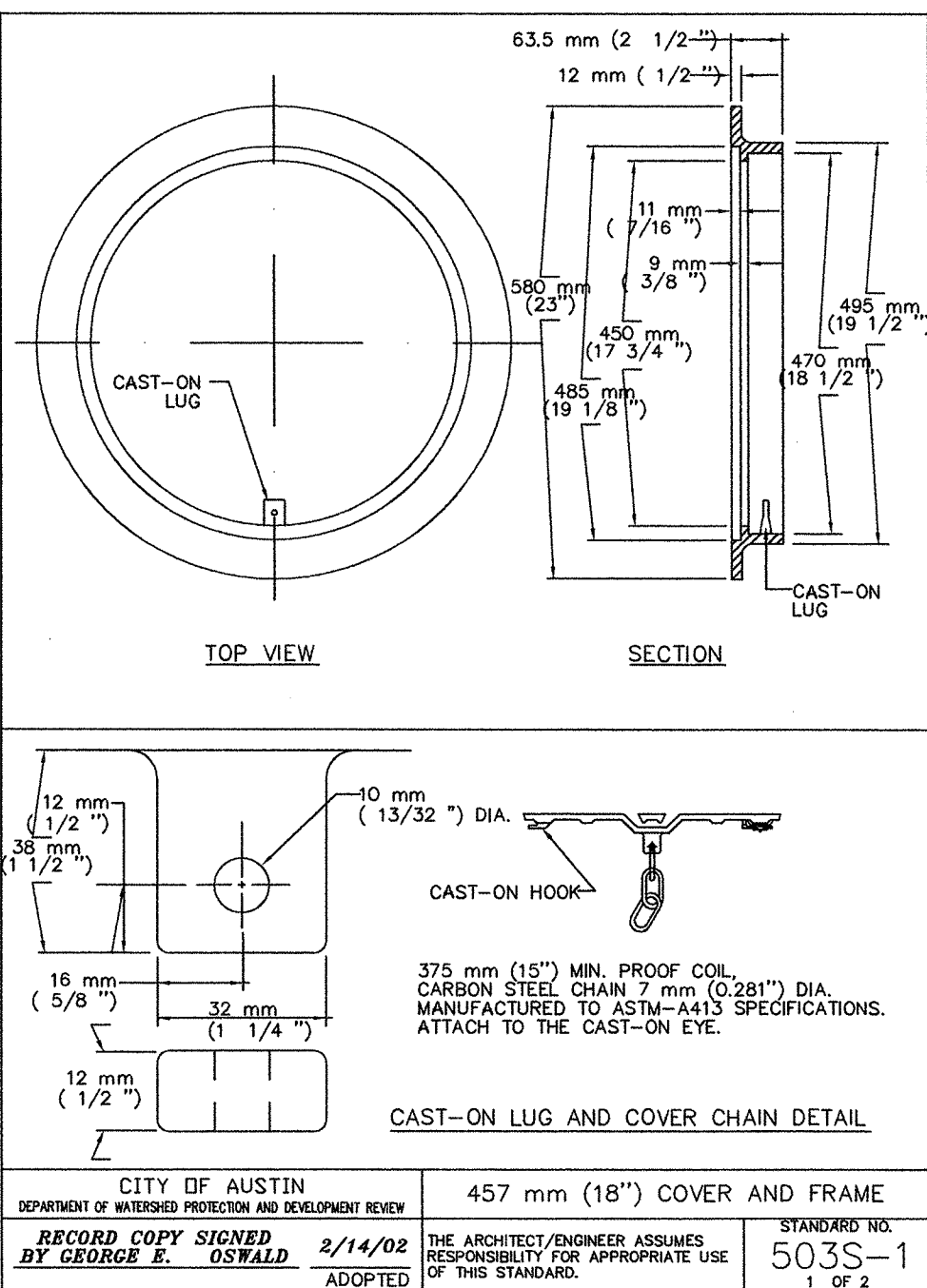
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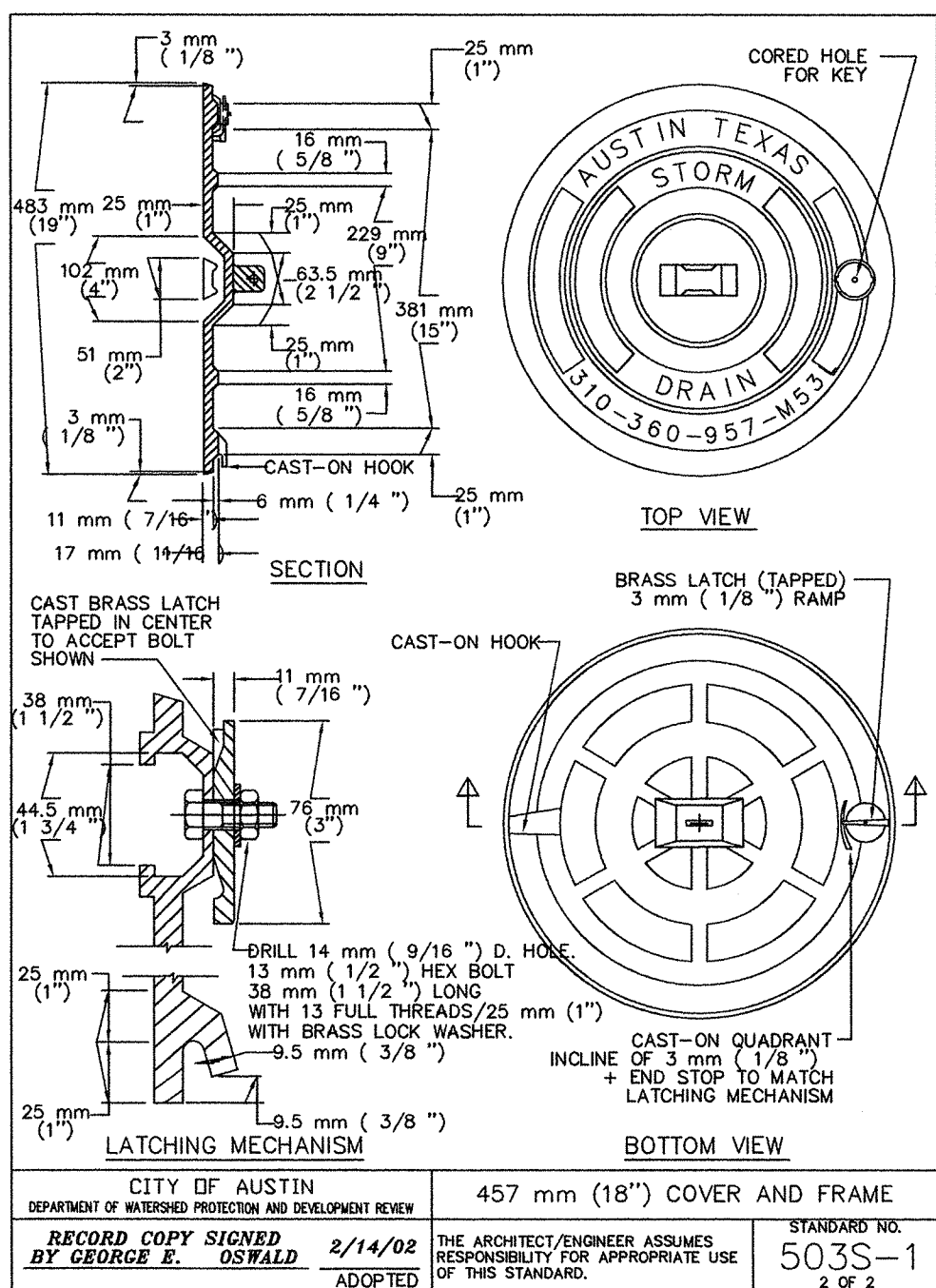
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APPROVED
DATE: 09/13/2001
INITIALS: N.T.S.



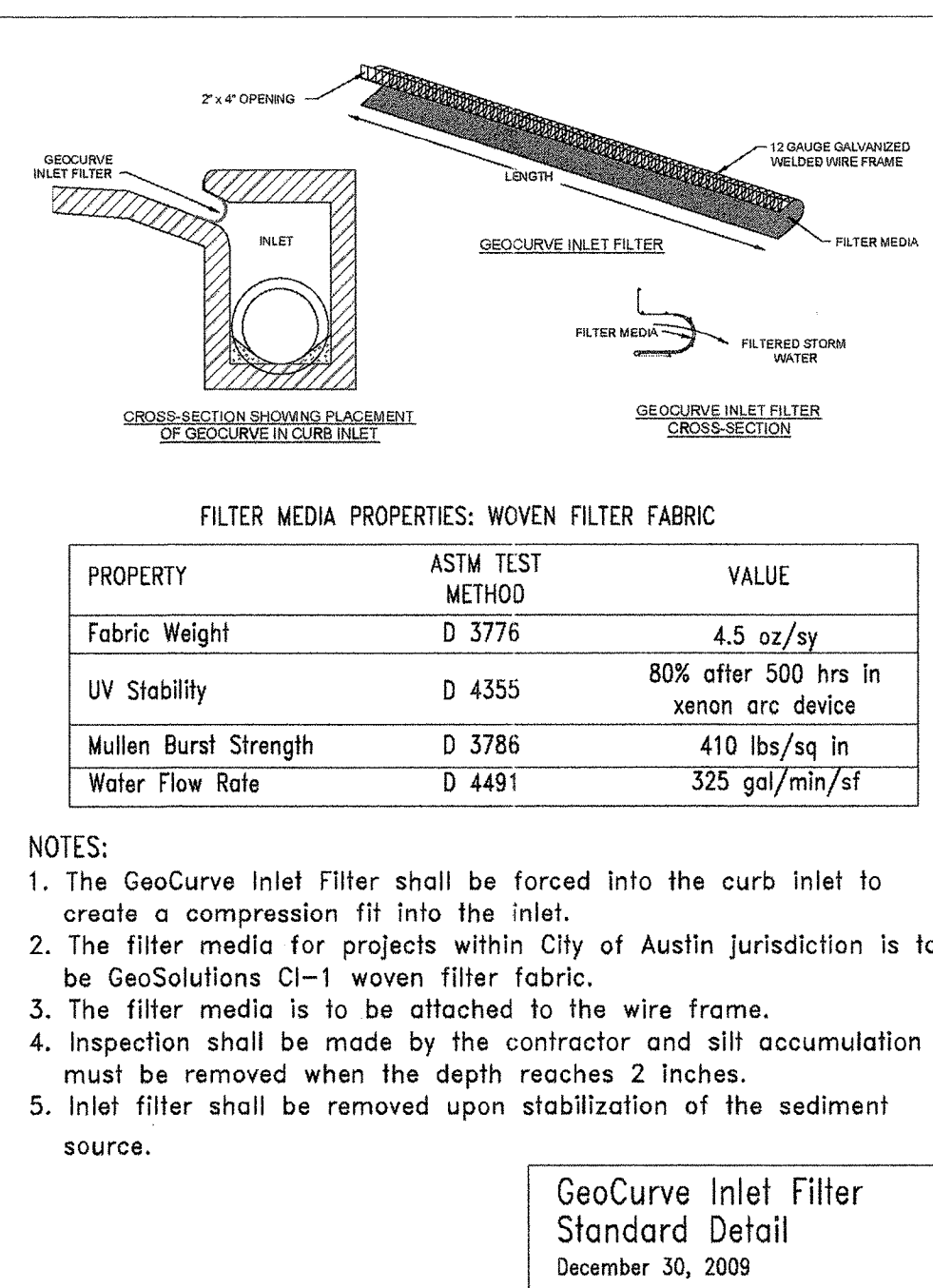
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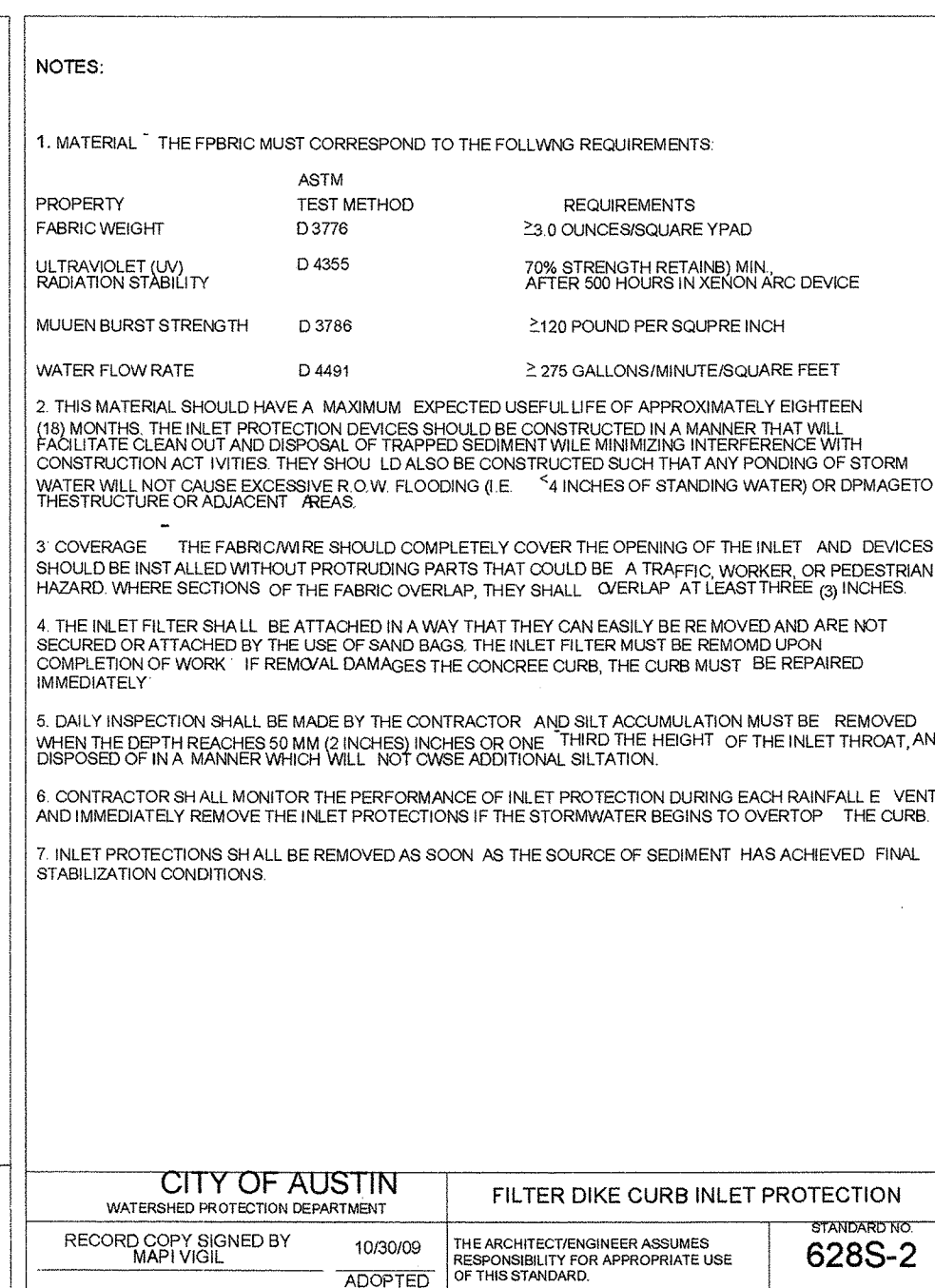
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DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW
RECORD COPY SIGNED BY GEORGE E. OSWALD 2/14/02
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STANDARD NO. 503S-1



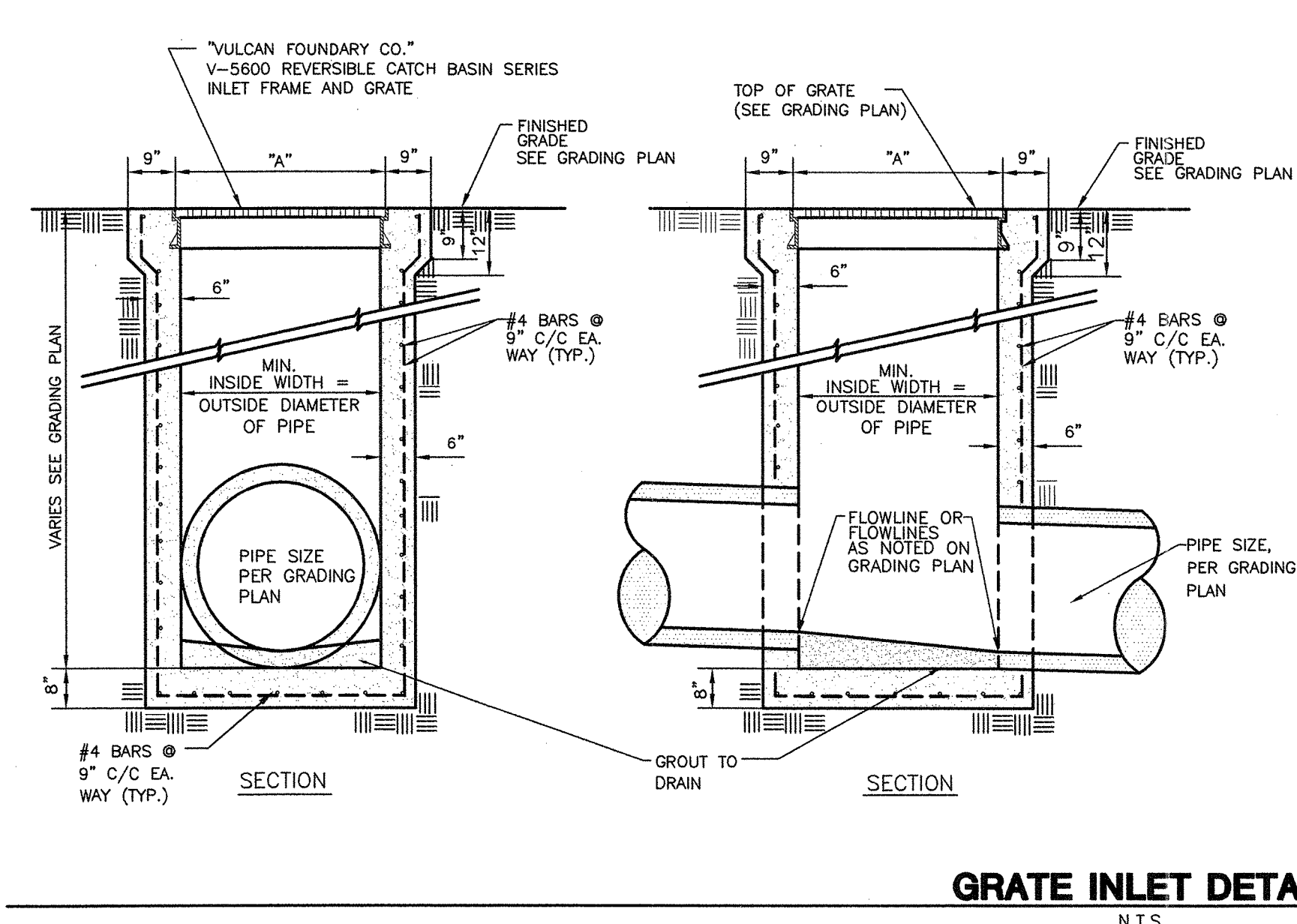
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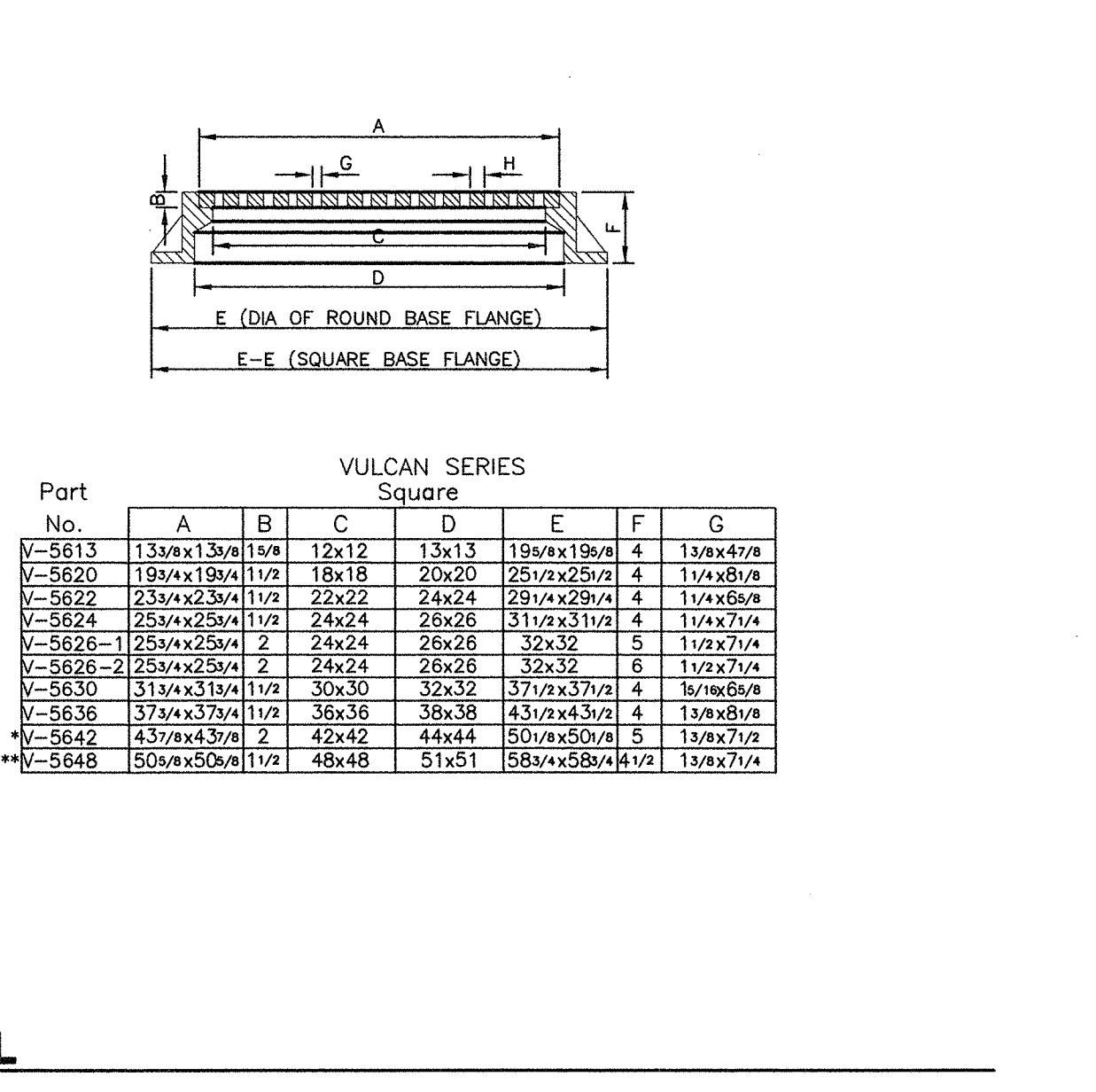
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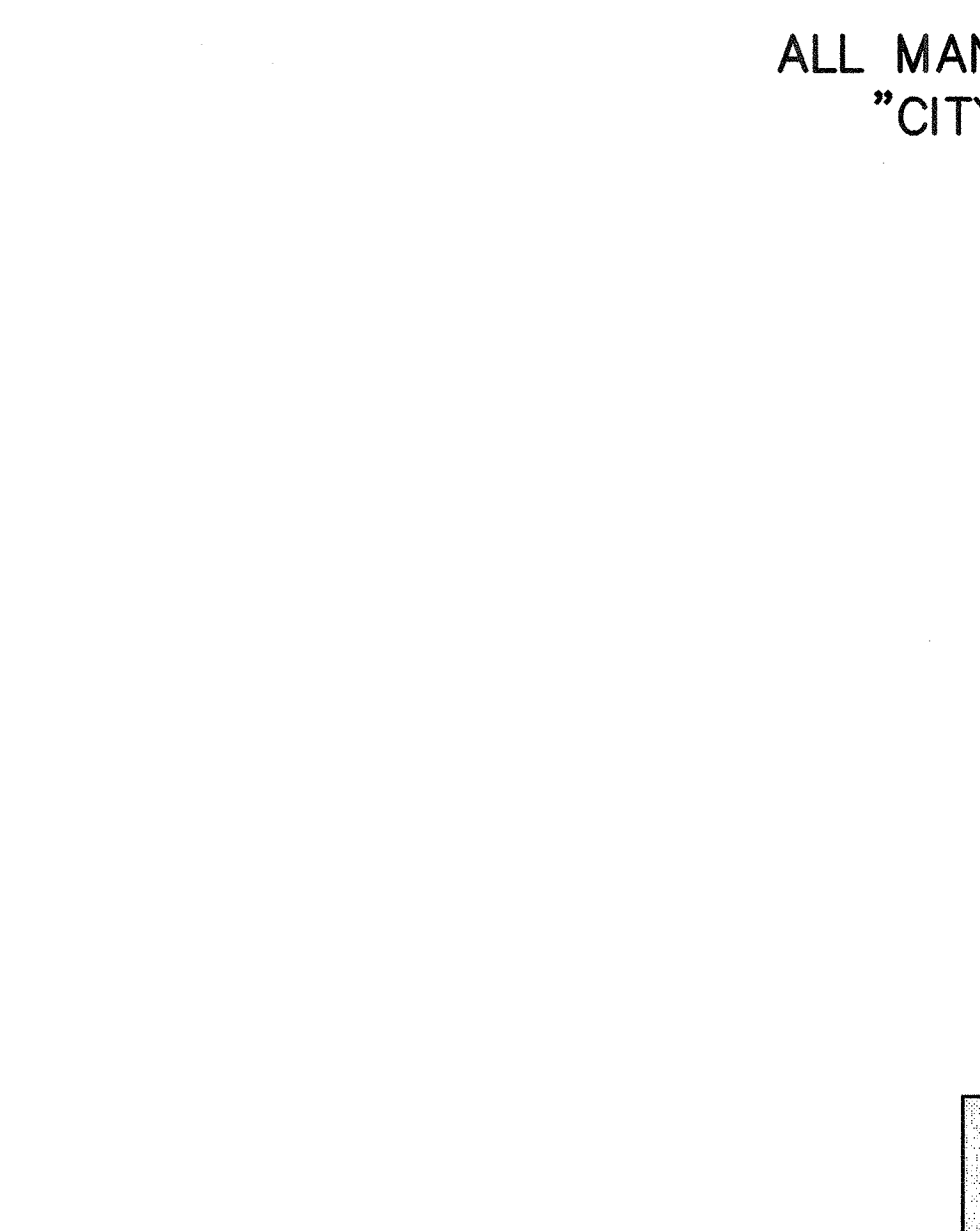
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APPROVED
DATE: 09/13/2001
INITIALS: N.T.S.



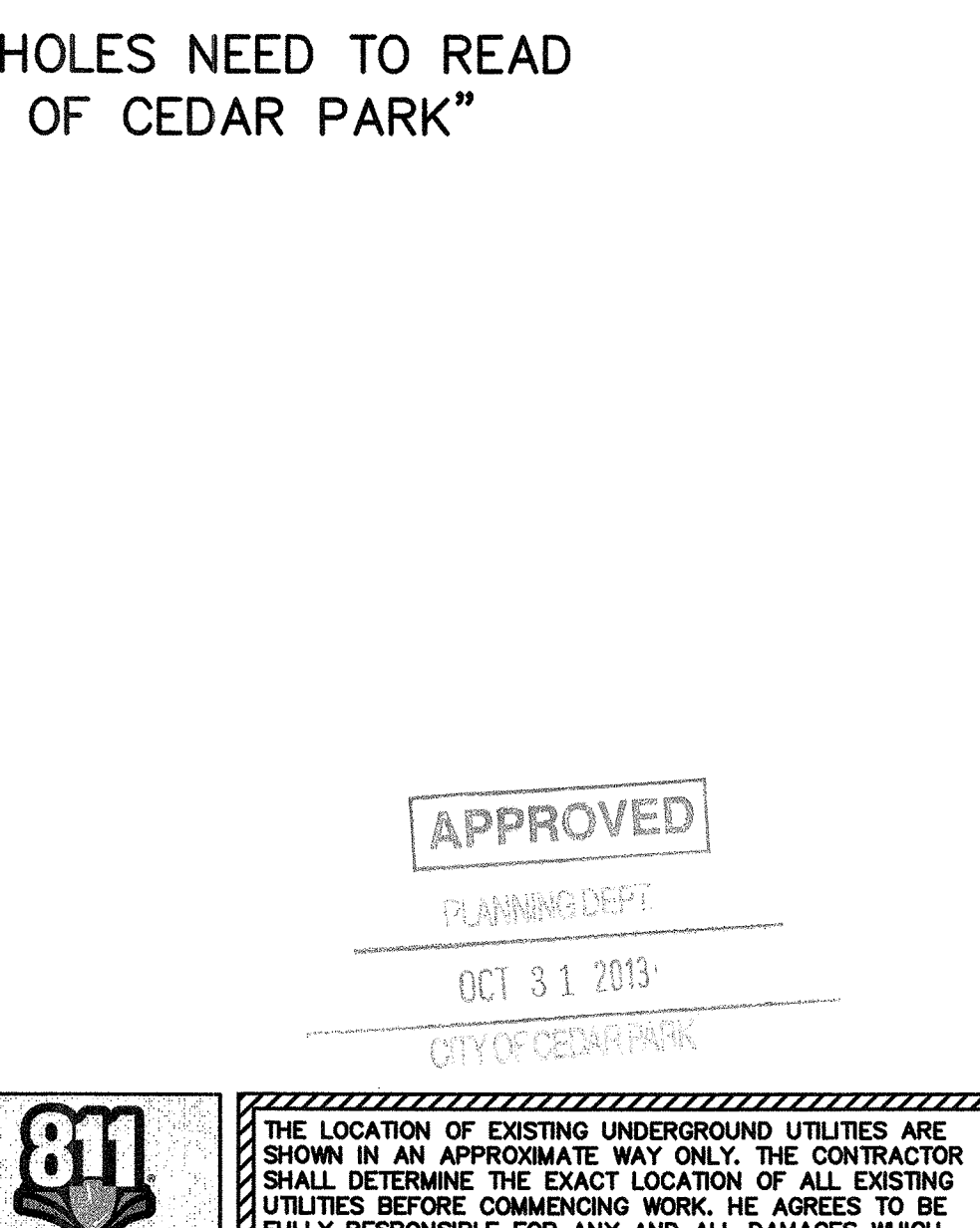
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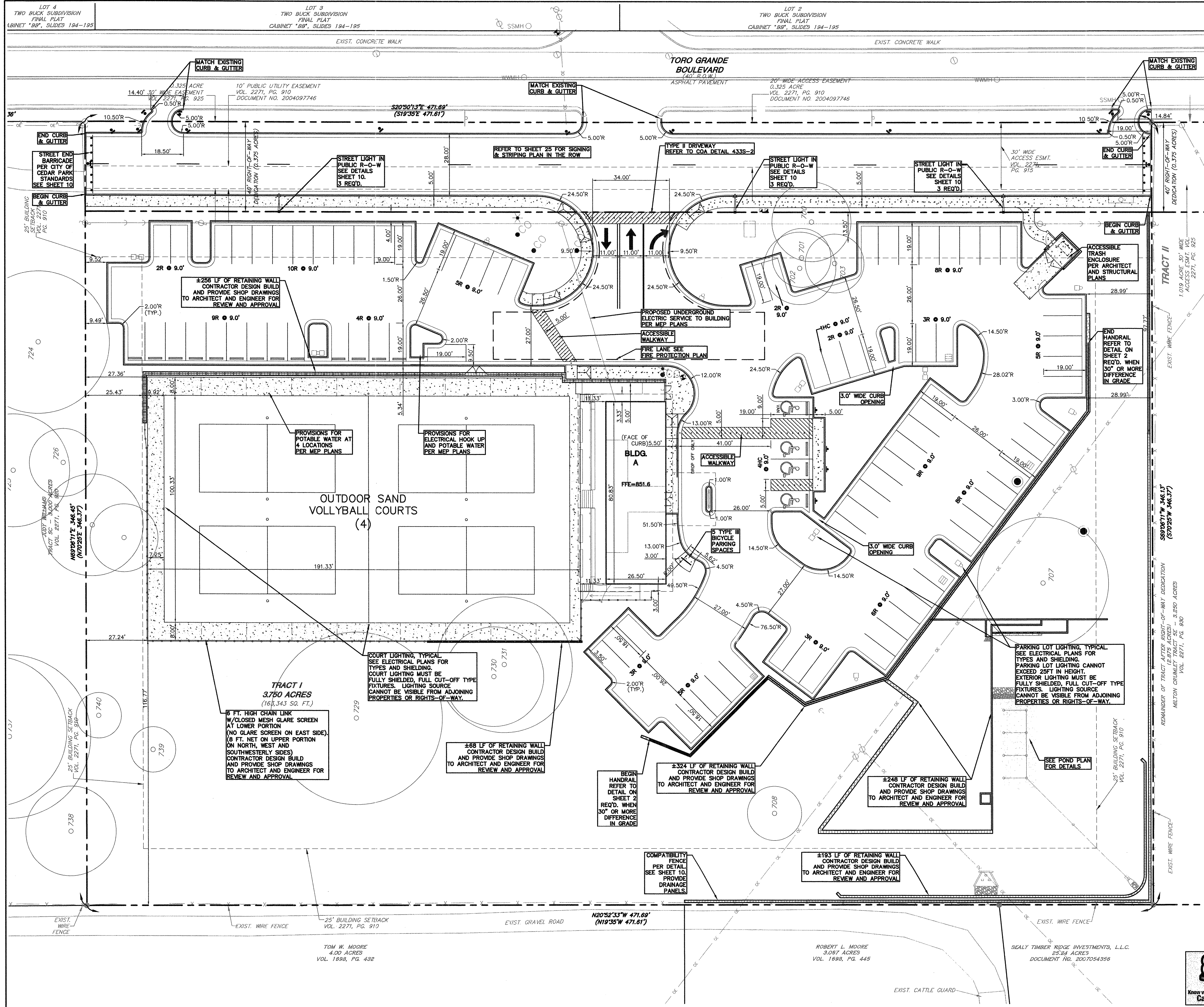
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APPROVED
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ENGINEERING DEPARTMENT
RECORD COPY SIGNED BY DARWIN MARCHELL 09/13/2001
APPROVED
DATE: 09/13/2001
INITIALS: N.T.S.



LEGEND

EXISTING	PROPOSED	DESCRIPTION
(Symbol)	(Symbol)	PROPERTY (R.O.W.) LINE
(Symbol)	(Symbol)	RECORD INFORMATION
(Symbol)	(Symbol)	POWER POLE
(Symbol)	(Symbol)	DOWN GUY
(Symbol)	(Symbol)	TRANSFORMER (SIZE VARIES)
(Symbol)	(Symbol)	FIRE HYDRANT
(Symbol)	(Symbol)	WATER VALVE
(Symbol)	(Symbol)	WATER METER
(Symbol)	(Symbol)	WATER METER VAULT
(Symbol)	(Symbol)	WATER MANHOLE
(Symbol)	(Symbol)	TELEPHONE RISER
(Symbol)	(Symbol)	CABLE TV RISER
(Symbol)	(Symbol)	ELECTRIC BOX
(Symbol)	(Symbol)	ELECTRIC METER
(Symbol)	(Symbol)	GAS METER
(Symbol)	(Symbol)	GAS VALVE
(Symbol)	(Symbol)	TRAFFIC CONTROL BOX
(Symbol)	(Symbol)	TRAFFIC SIGNAL POST
(Symbol)	(Symbol)	GRATE INLET
(Symbol)	(Symbol)	CURB INLET (SIZE VARIES)
(Symbol)	(Symbol)	GREASE TRAP (SIZE VARIES)
(Symbol)	(Symbol)	WIRE FENCE
(Symbol)	(Symbol)	OVERHEAD ELECTRIC
(Symbol)	(Symbol)	ELECTRIC MANHOLE (SIZE VARIES)
(Symbol)	(Symbol)	WASTEWATER MANHOLE (SIZE VARIES)
(Symbol)	(Symbol)	STORMSEWER MANHOLE (SIZE VARIES)
(Symbol)	(Symbol)	TELEPHONE MANHOLE (SIZE VARIES)
(Symbol)	(Symbol)	WASTEWATER INSPECTION PORTAL
(Symbol)	(Symbol)	DUMPSTER
(Symbol)	(Symbol)	TRASH COMPACTOR
(Symbol)	(Symbol)	CURB & GUTTER
(Symbol)	(Symbol)	EDGE OF PAVEMENT
(Symbol)	(Symbol)	FIRE LANE DESIGNATION
(Symbol)	(Symbol)	HANDICAP ACCESS ROUTE
(Symbol)	(Symbol)	CONCRETE SIDEWALKS
(Symbol)	(Symbol)	WALL
(Symbol)	(Symbol)	SIGN
(Symbol)	(Symbol)	WHEELSTOP
(Symbol)	(Symbol)	BOLLARD
(Symbol)	(Symbol)	TREE TO BE SAVED

- ACCESSIBILITY NOTES:**
1. SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP. [TAS 4.3.7]
 2. GROUND SURFACES ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM, AND SLIP RESISTANT. [TAS 4.5.1]
 3. ACCESSIBLE ROUTES MUST BE A CROSS SLOPE NO GREATER THAN 1:50 [TAS 4.3.7]
- SITE NOTES:**
1. ALL DIMENSIONS TO CURBS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
 2. ALL RADII ARE 2.00' (BACK OF CURB) UNLESS OTHERWISE NOTED.
 3. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE RELEASED SITE PLAN. ANY ADDITIONAL IMPROVEMENTS WILL REQUIRE SITE PLAN AMENDMENT AND APPROVAL OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.
 4. ALL ON-SITE UTILITIES SHALL BE LOCATED UNDERGROUND UNLESS REQUIRED BY THE UTILITY TO BE OTHERWISE LOCATED (SECTION 25-2-1125).
 5. CONTRACTOR TO ADJUST CASTINGS, MANHOLE LIDS, AND OTHER APPLICABLE APPURTENANCES ON EXISTING UTILITIES WITHIN THE PROPOSED DRIVEWAY AND SIDEWALK RECONSTRUCTION LIMITS.
 6. 25 FEET TURNING RADIUS IS AVAILABLE INTO, THROUGH, AND OUT OF FIRE LANE.
 7. THIS IS TO BE DEVELOPED IN A SINGLE PHASE.

APPROVED
PLANNING DEPT.
OCT 31 2013



THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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221 West South Street, Suite 600
Austin, Texas 78701
Tel: (512) 326-0011 Fax: (512) 326-0025
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DANIEL M. MAHONEY
111560
LICENSED PROFESSIONAL ENGINEER

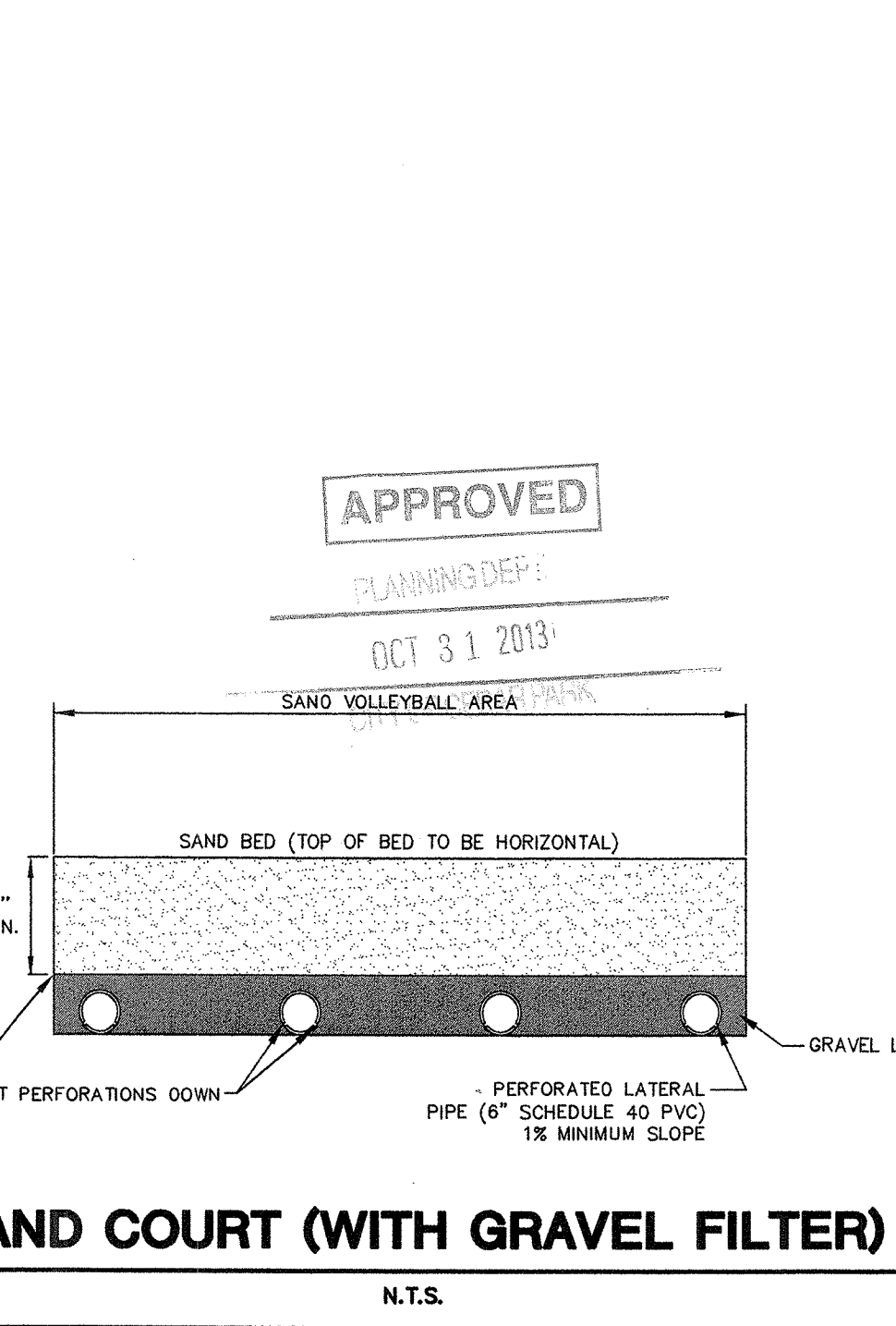
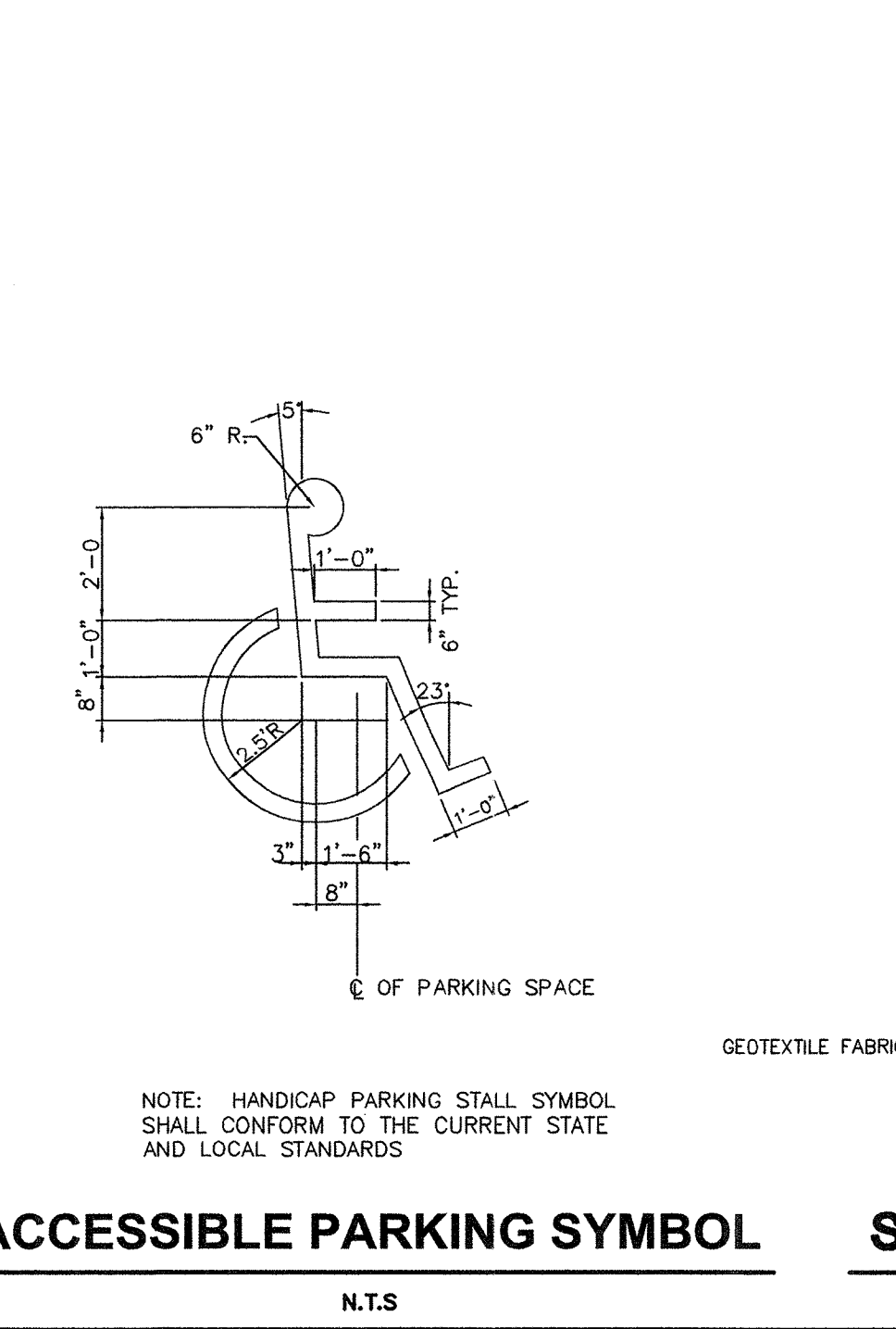
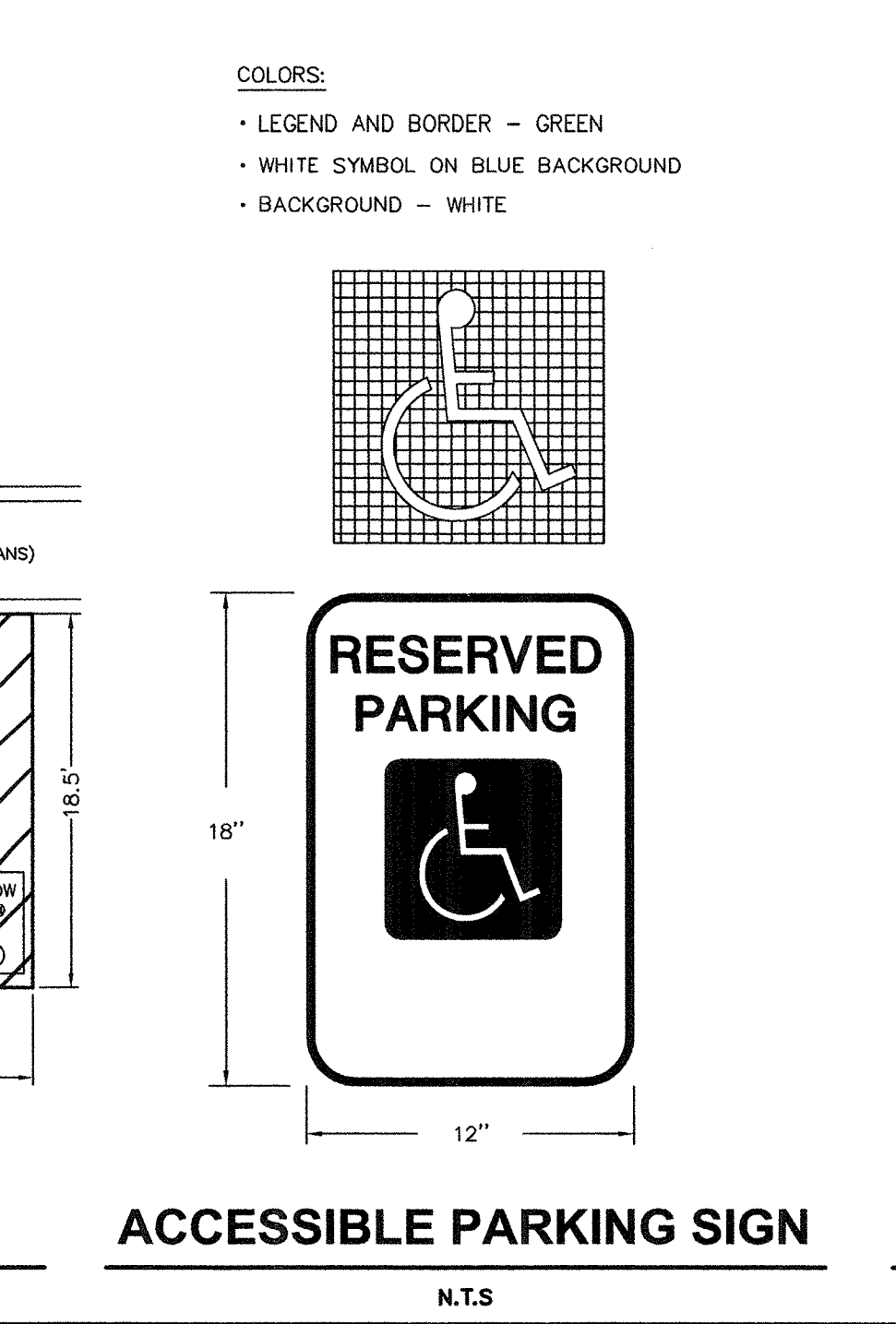
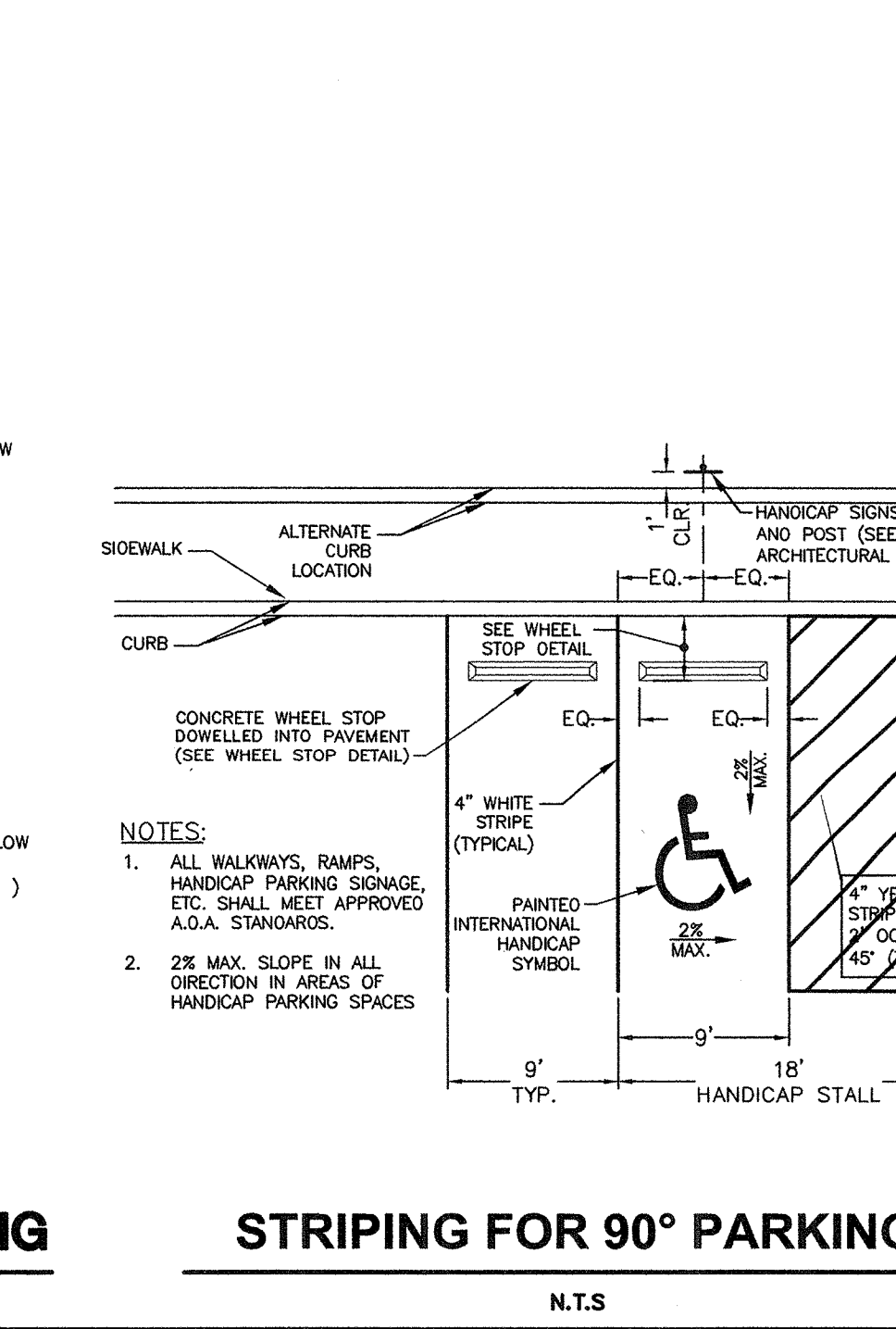
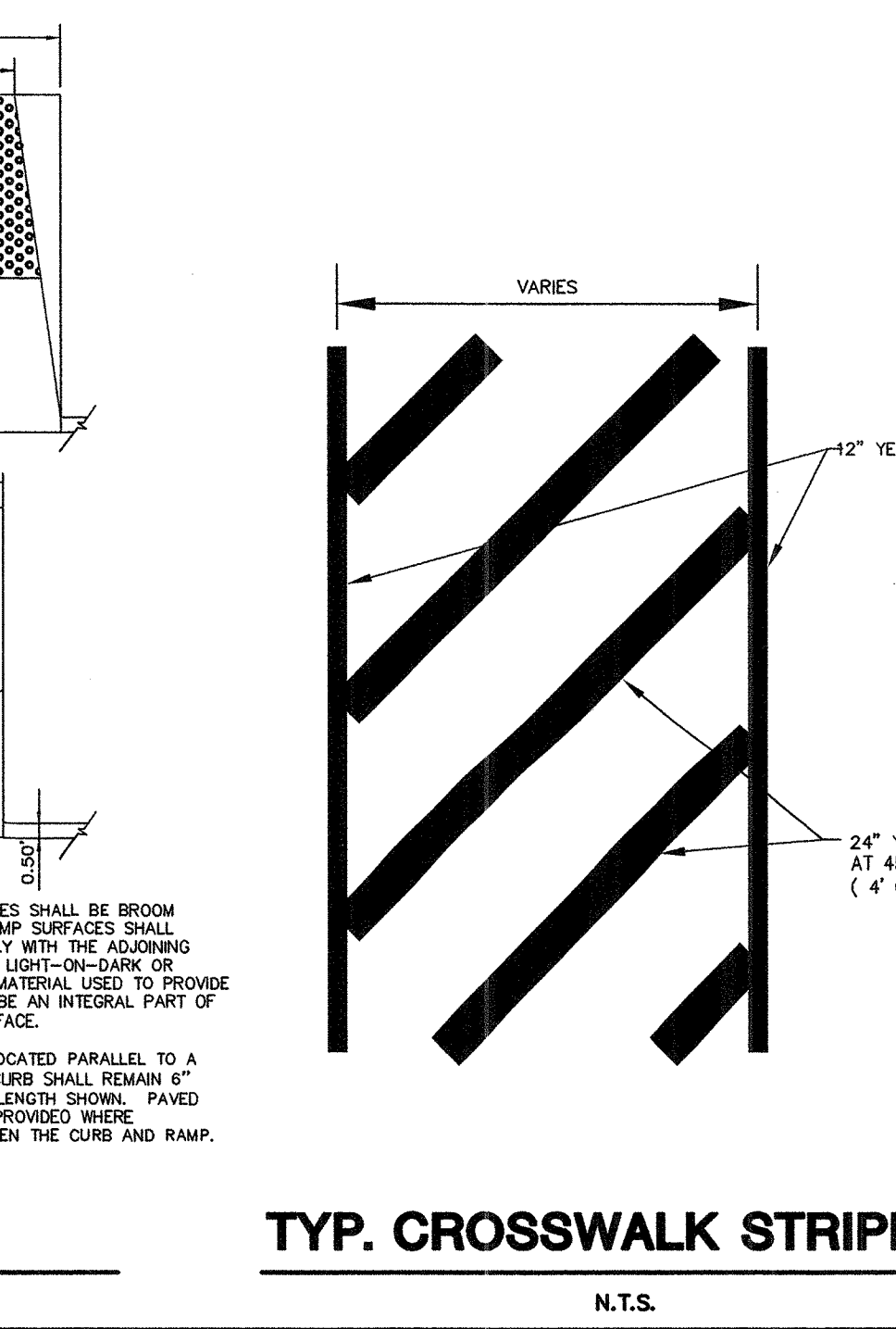
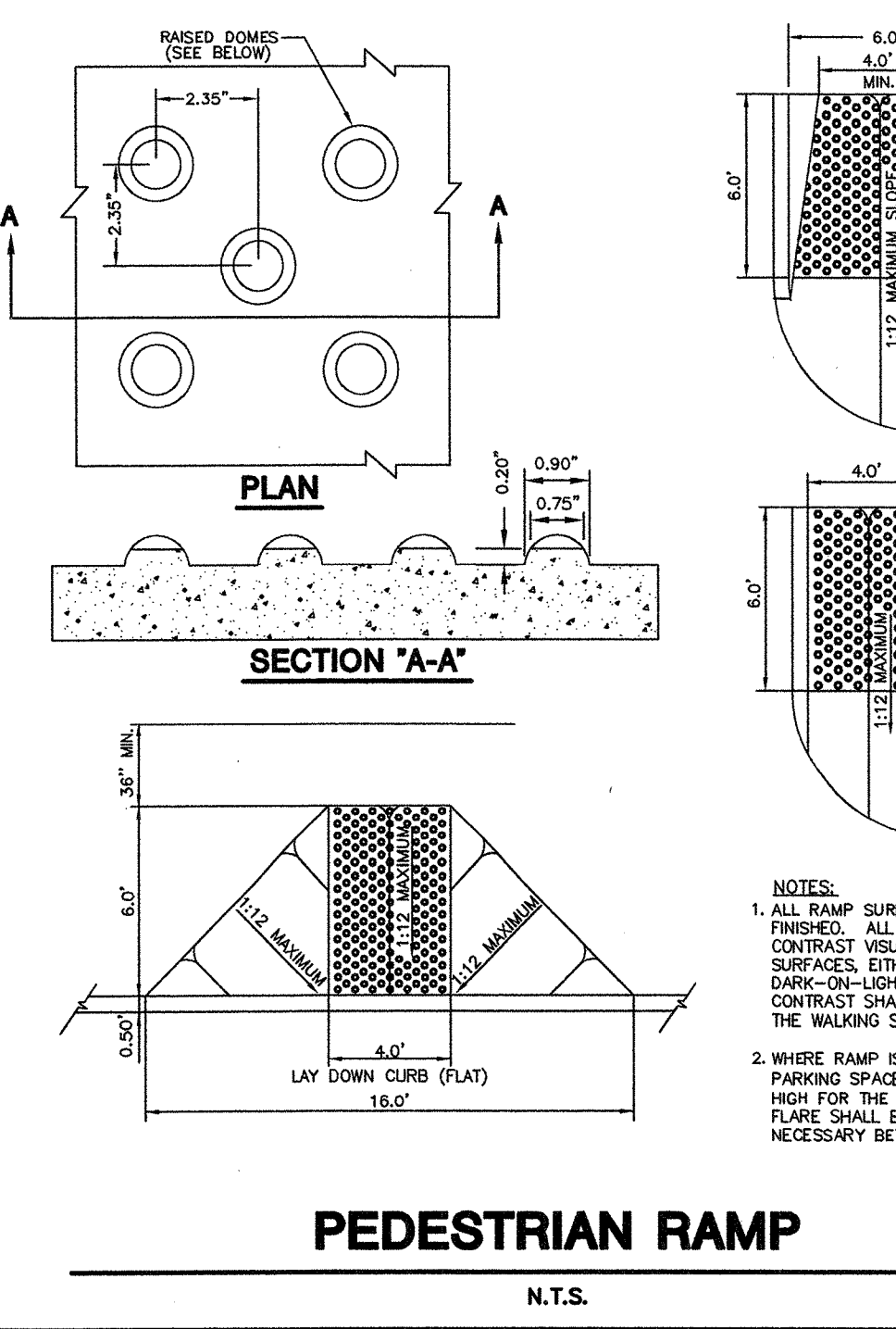
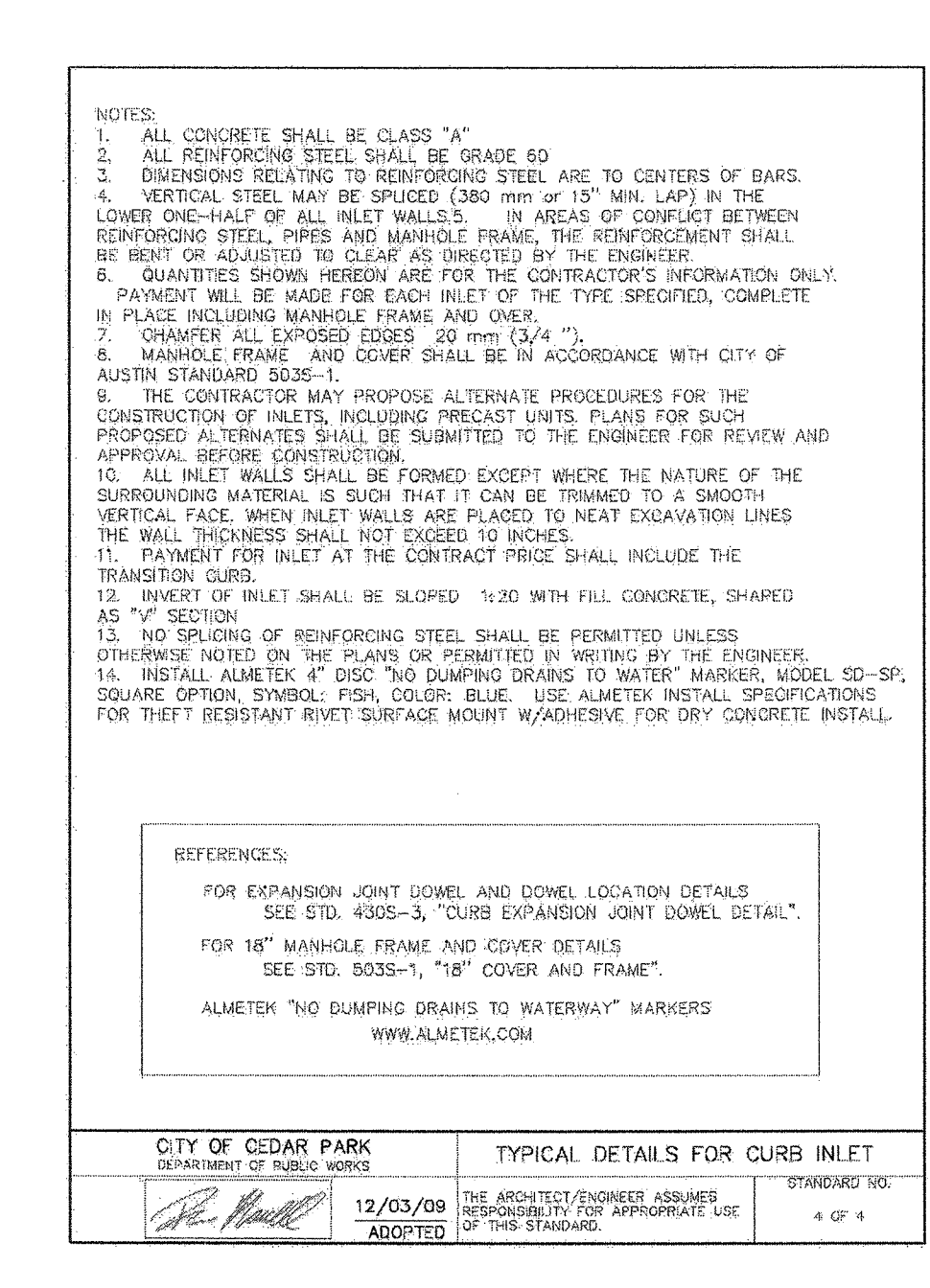
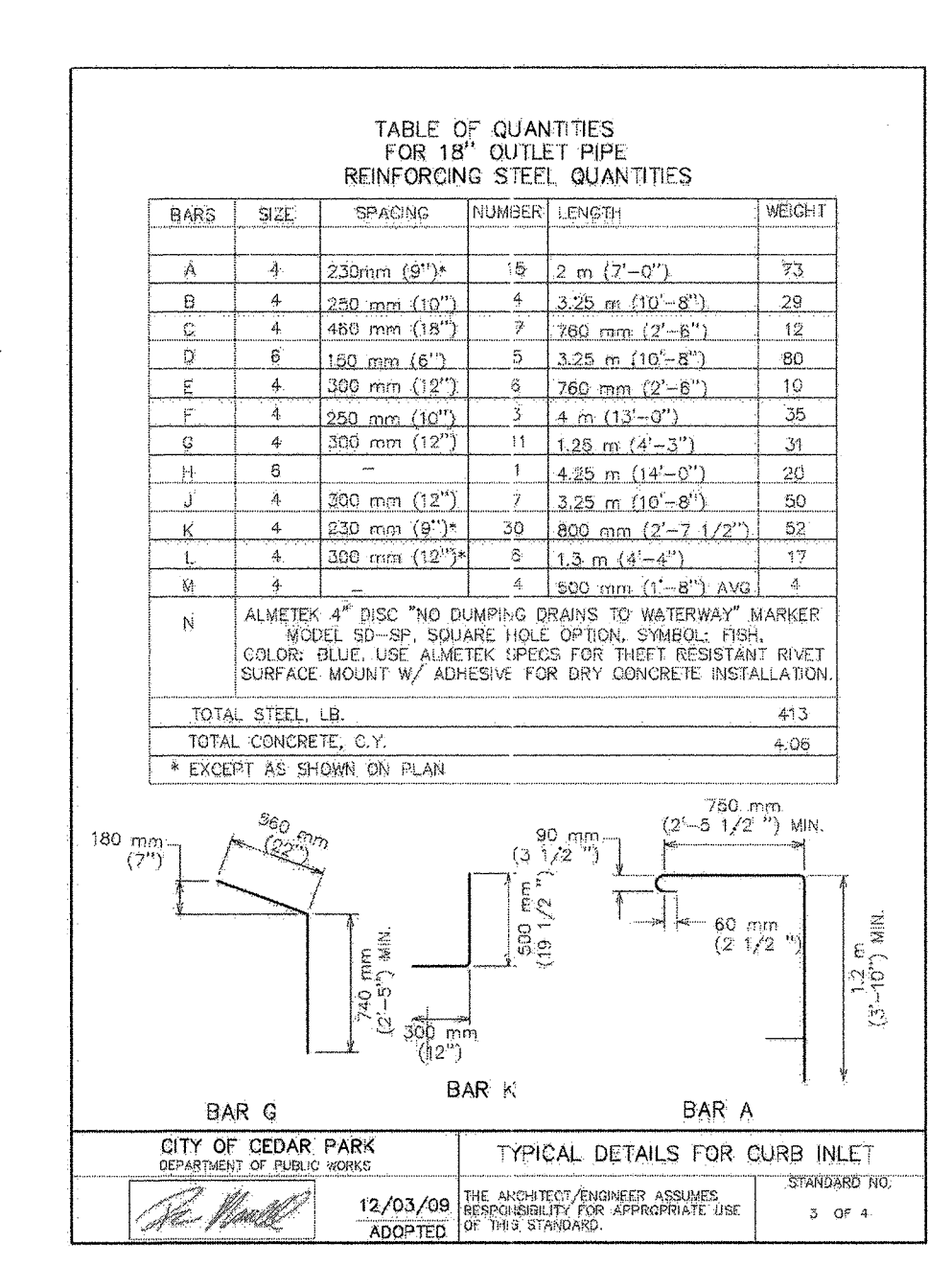
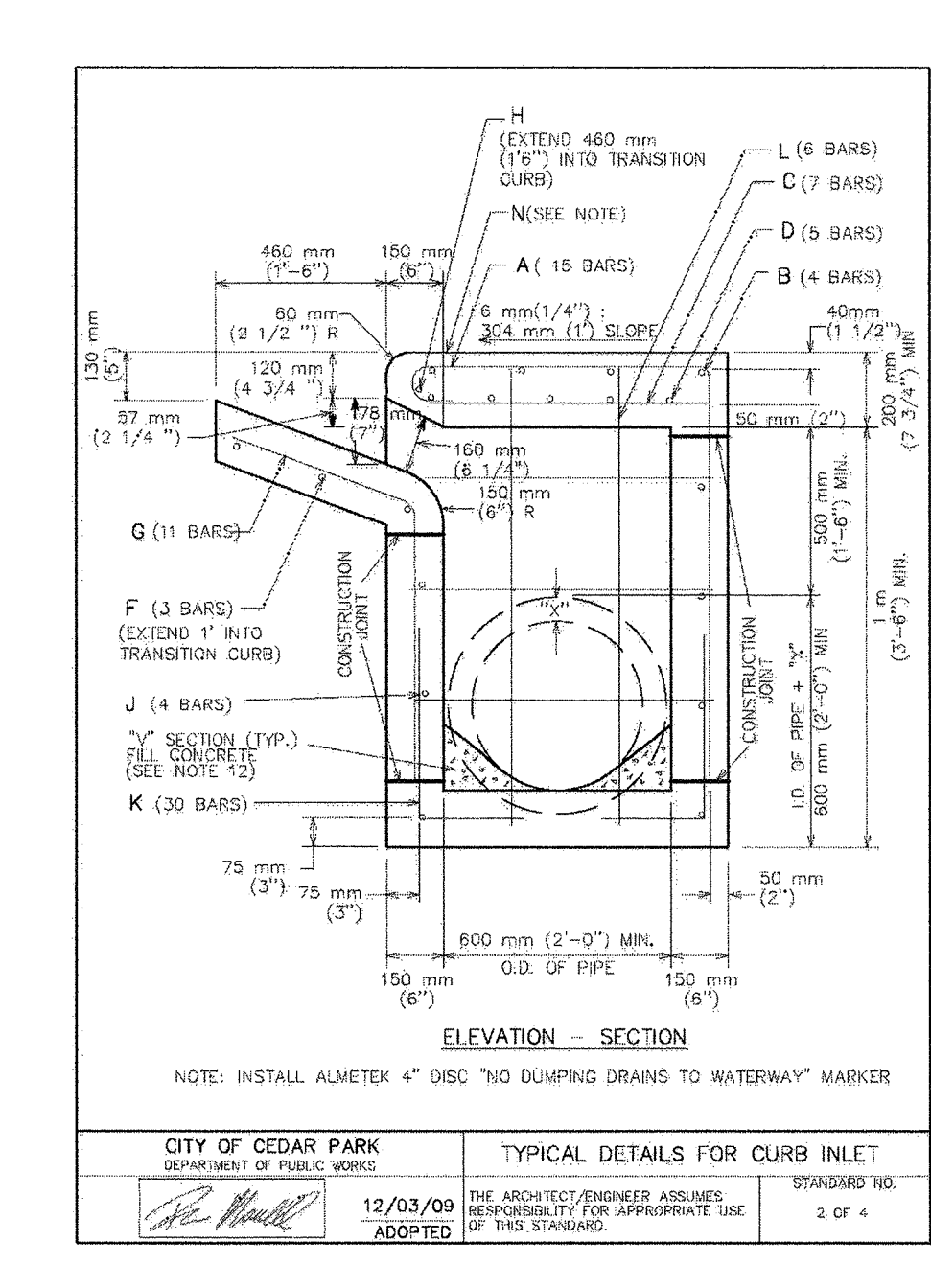
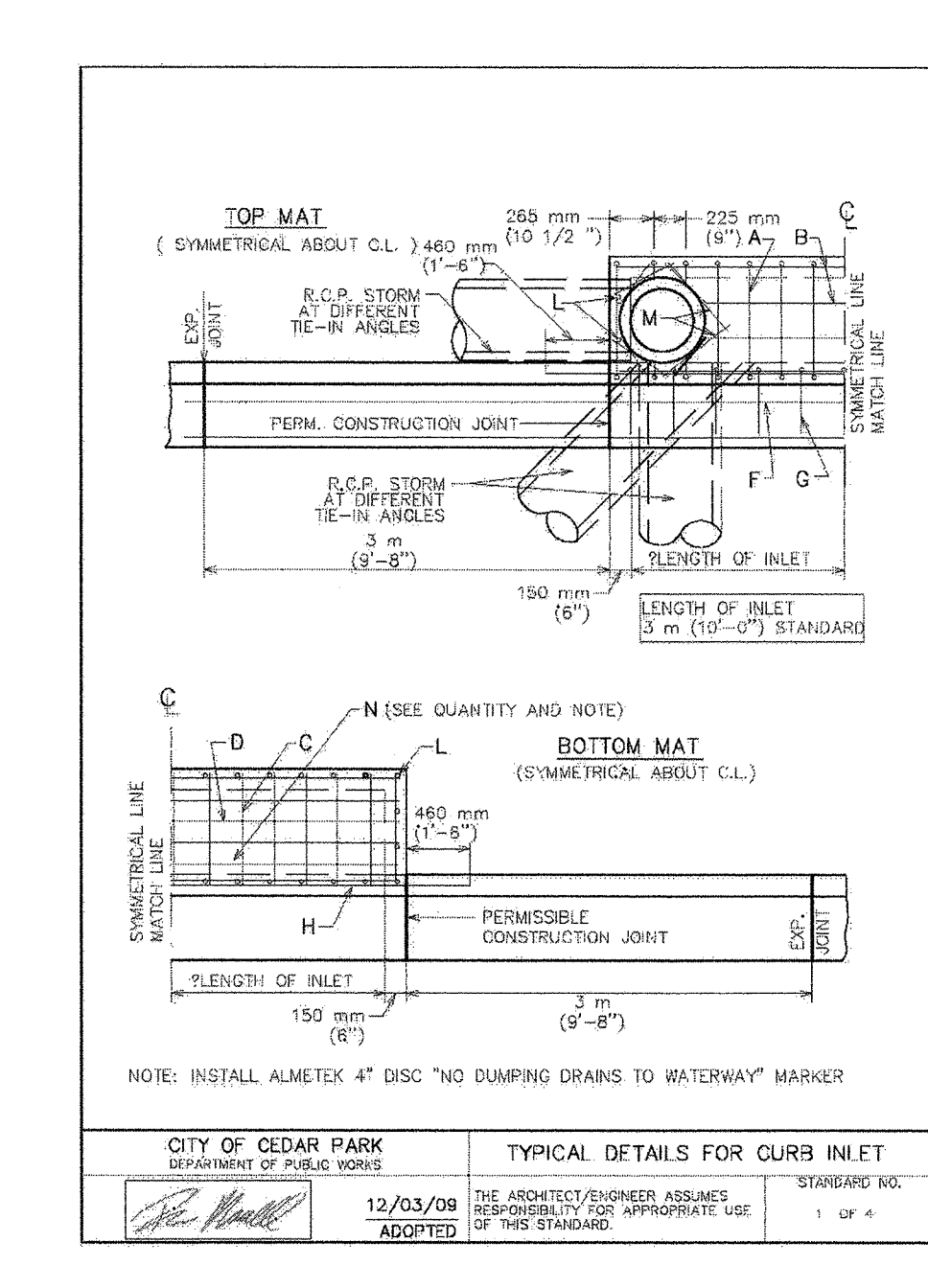
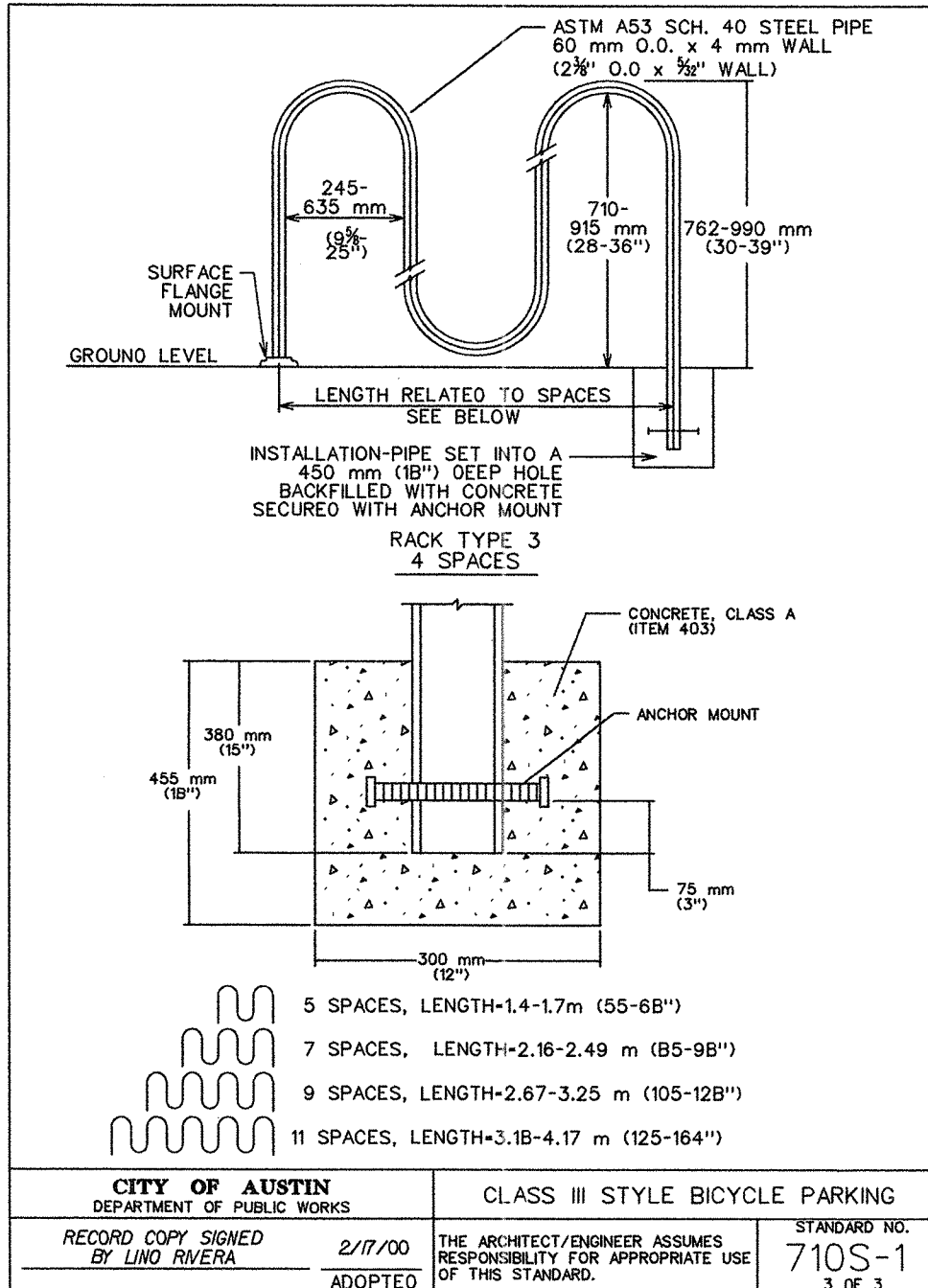
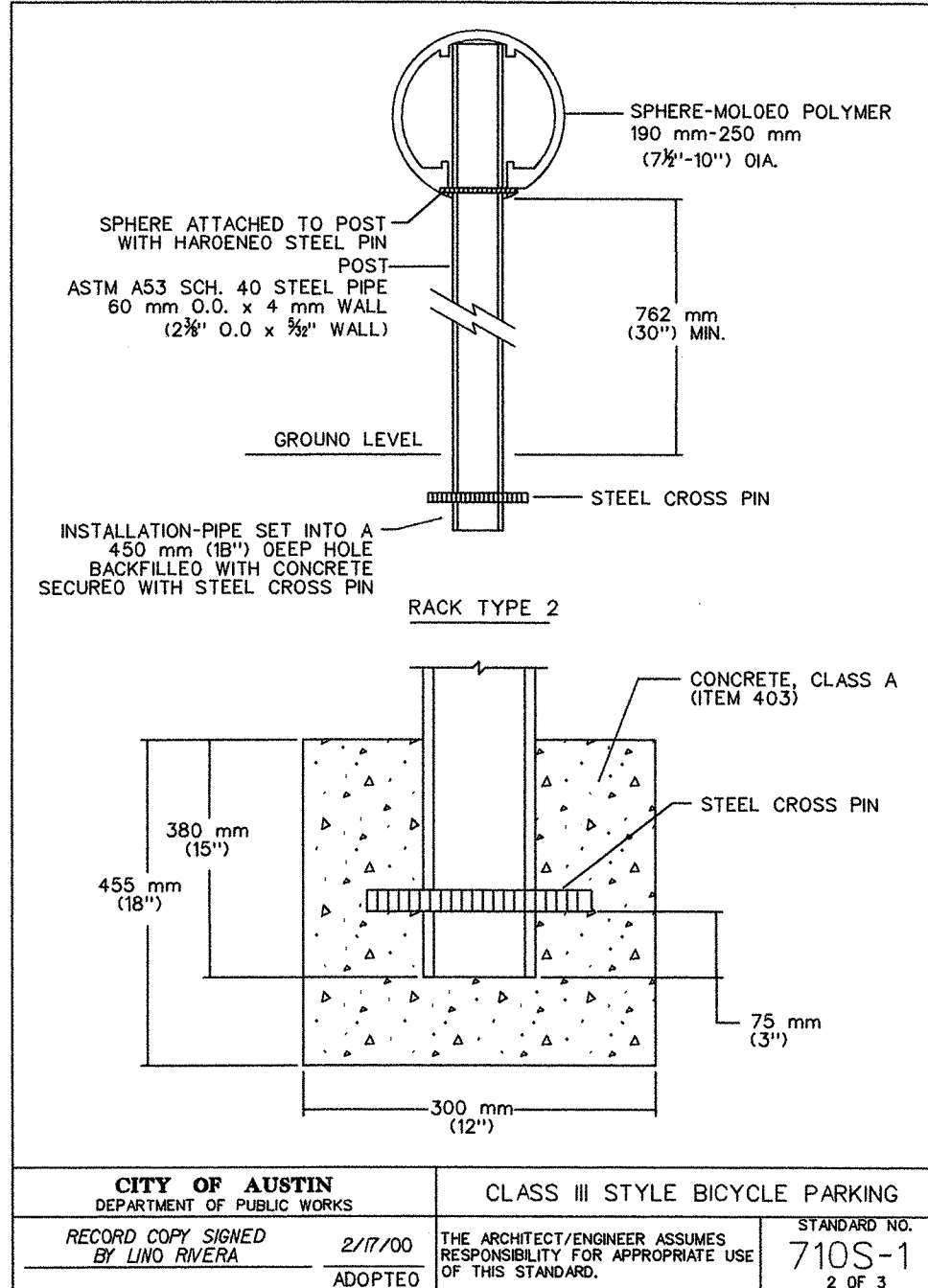
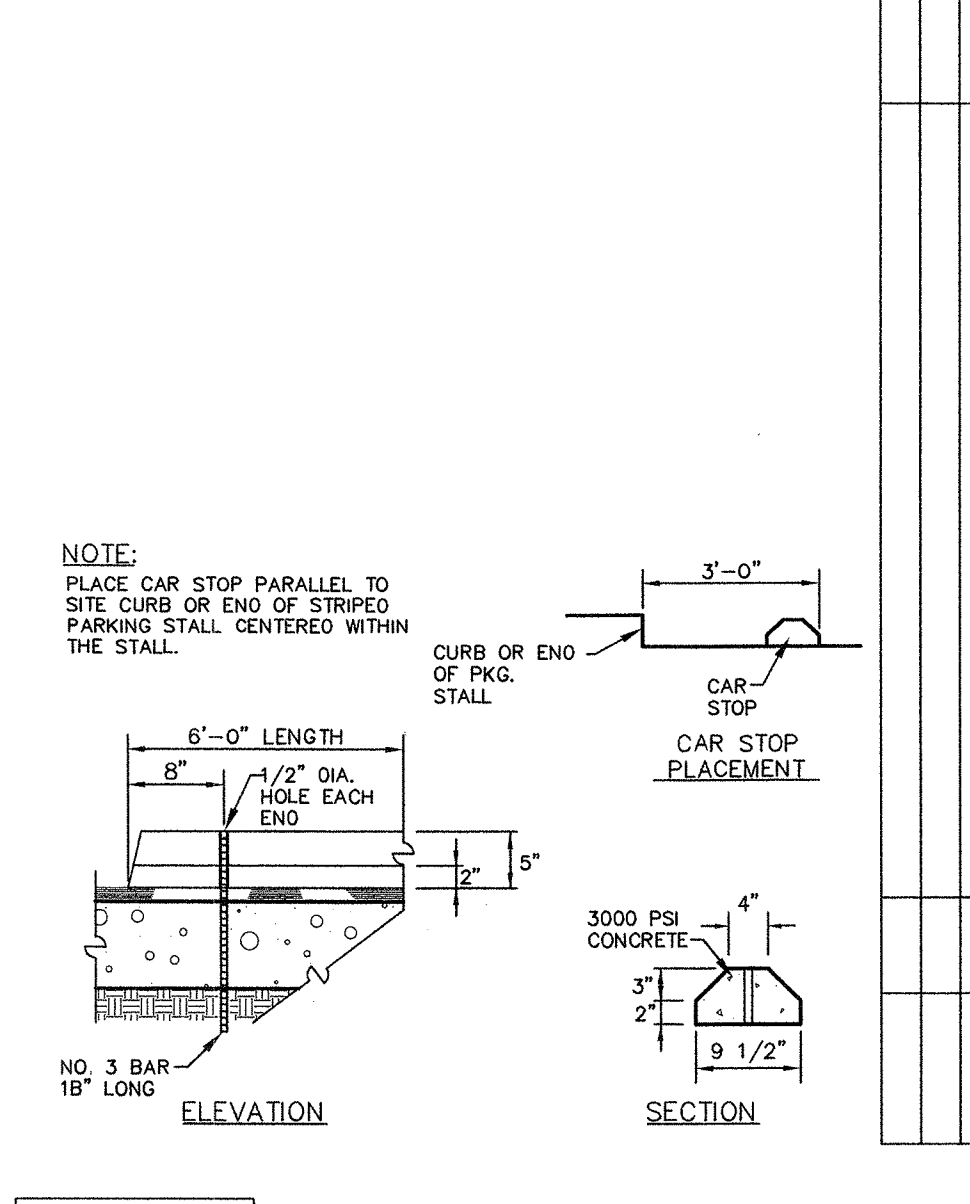
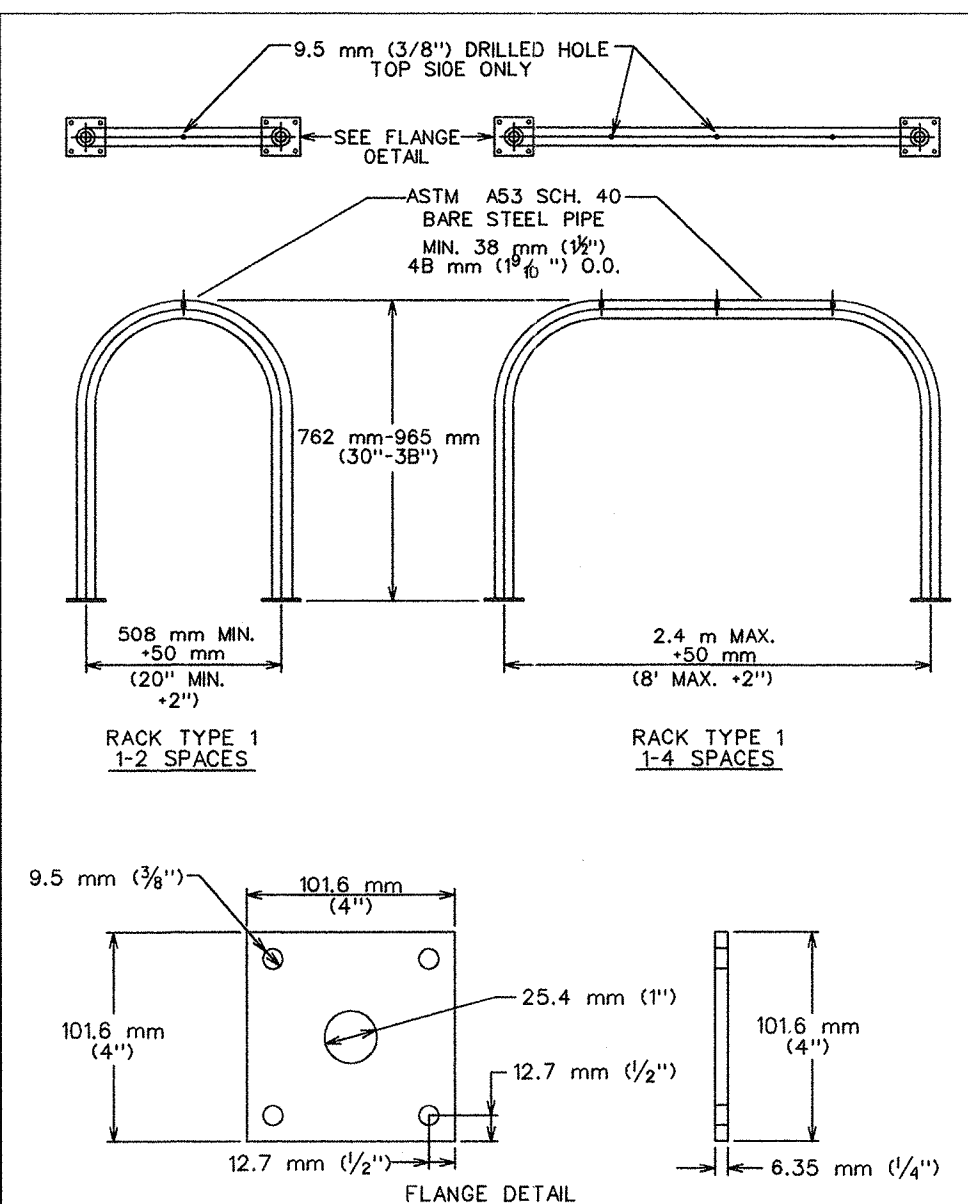
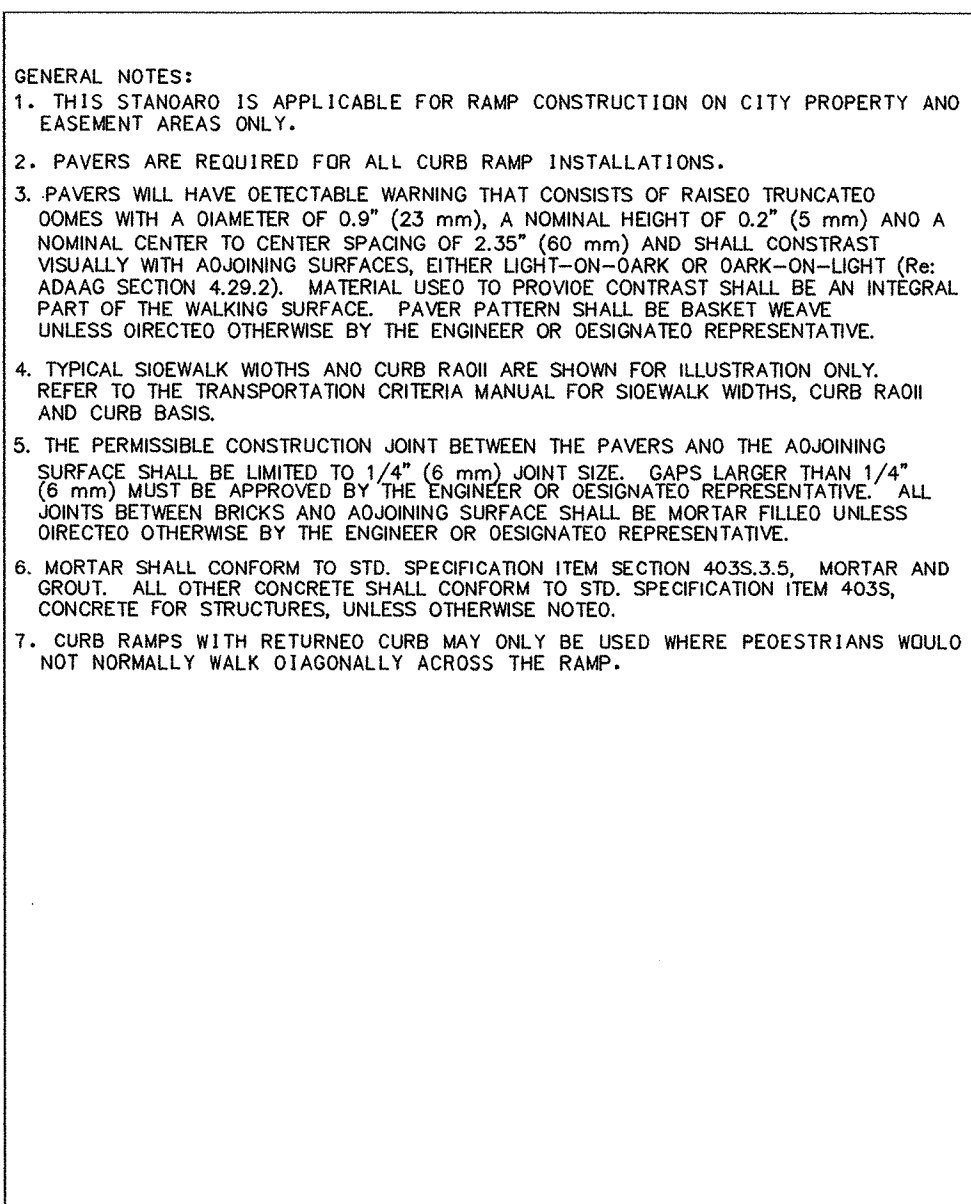
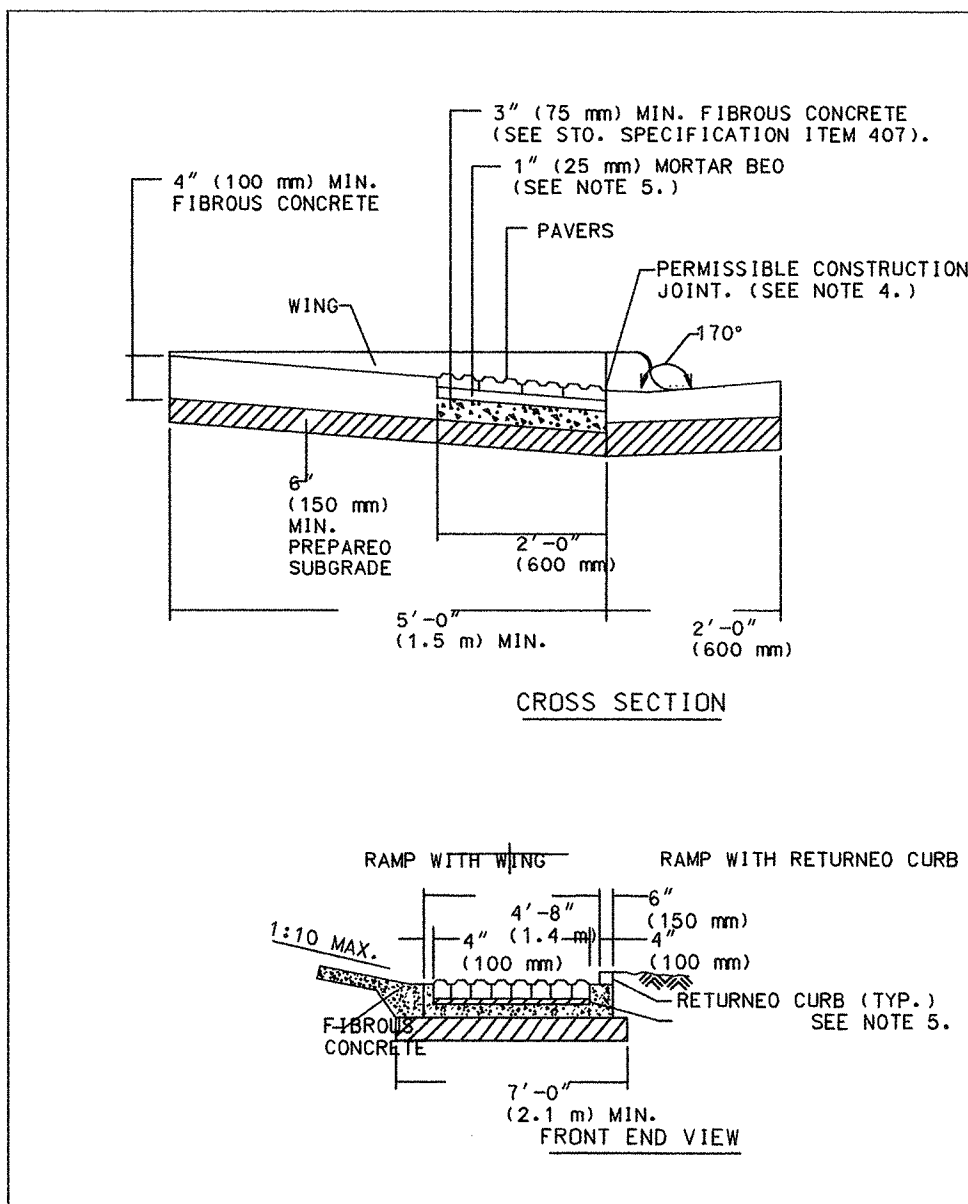
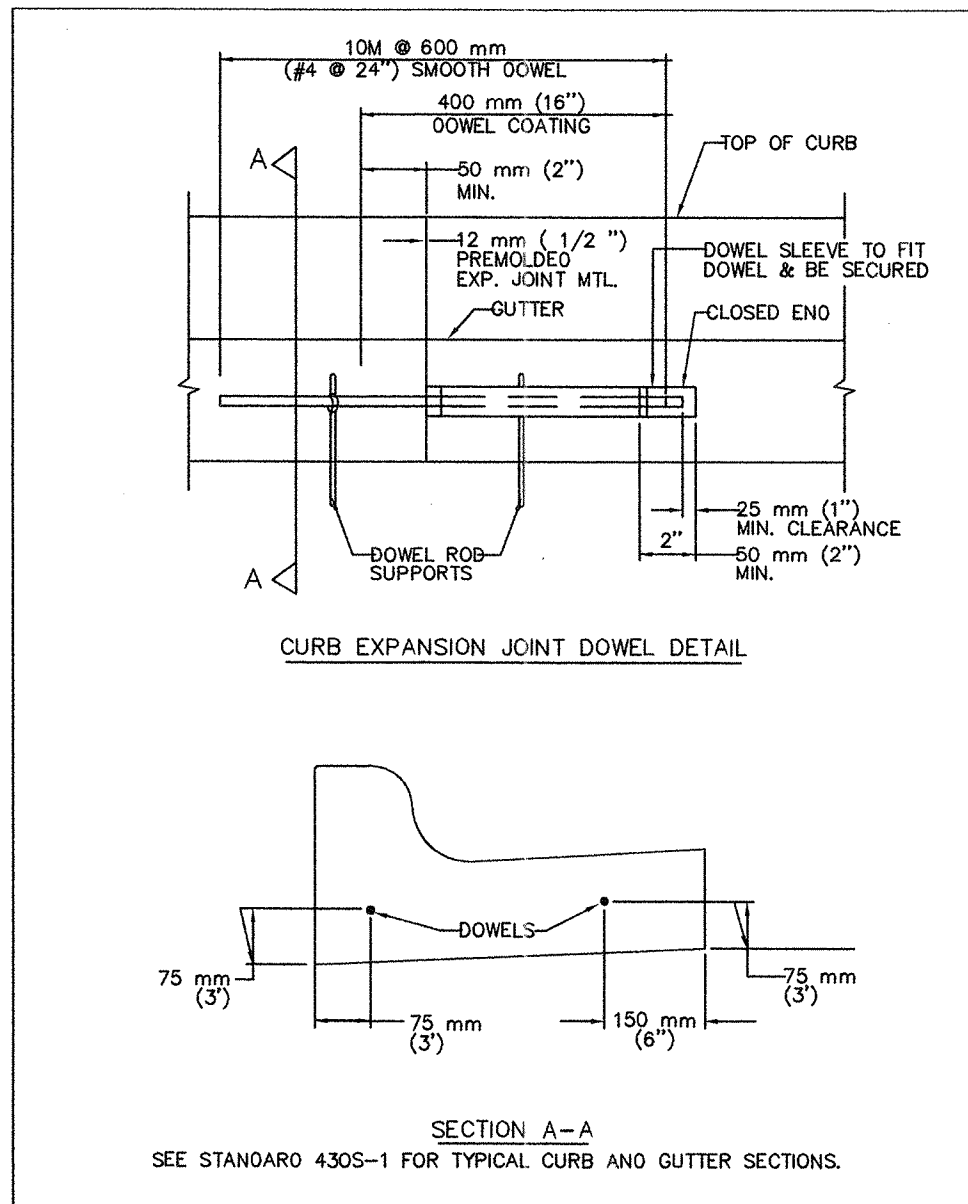
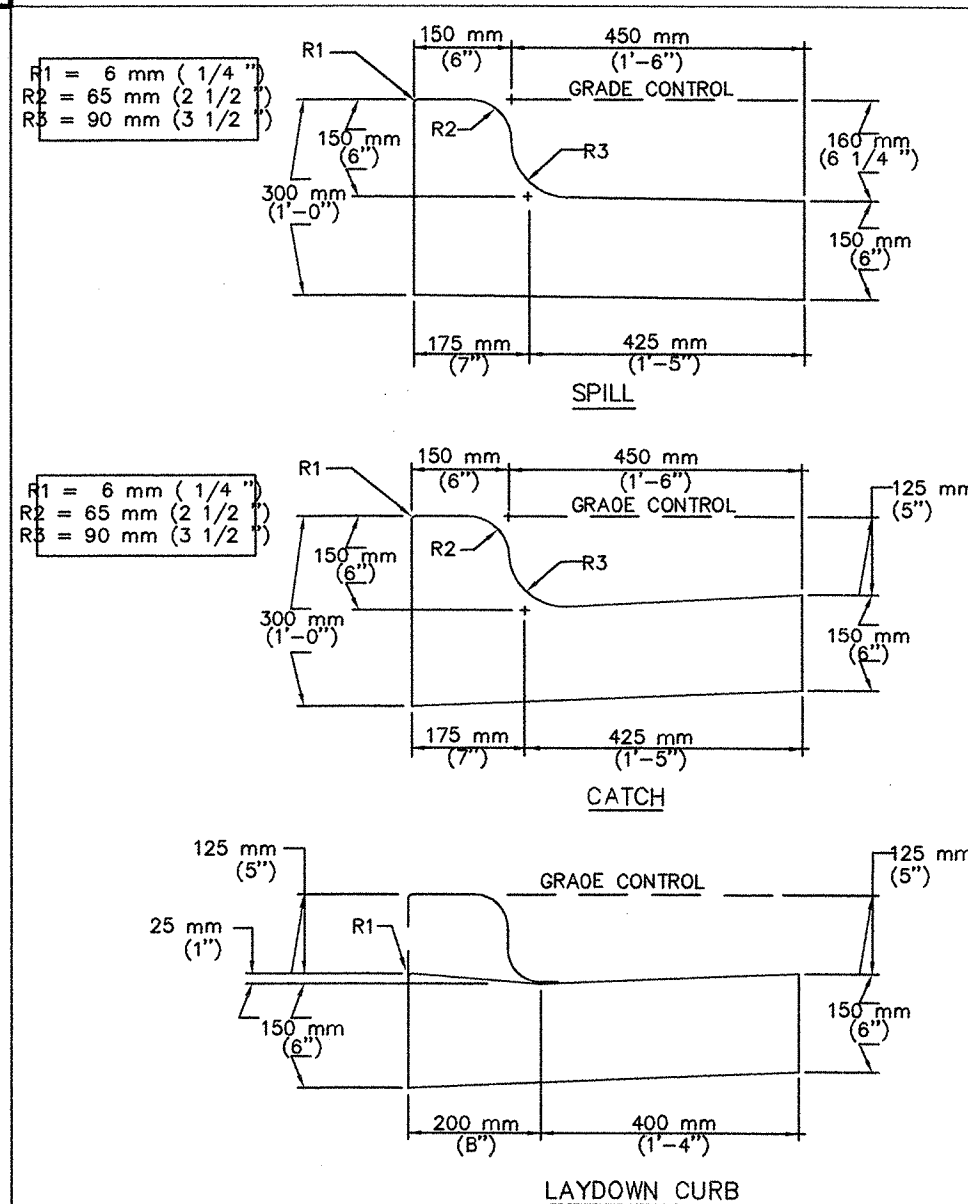
SITE PLAN

AUSTIN SPORTS CENTER BRASSFIELD
1401 TORO GRANDE BOULEVARD

AUSTIN SPORTS CENTER

DRAWN BY: GLEB, PSD
DESIGNED BY: GLEB, DMM
REVIEWED BY: DMM, JRN
PROJECT NO.: 108724-10002

SHEET 8
OF 25



AUSTIN SPORTS CENTER BRASSFIELD
1401 TORO GRANDE BOULEVARD
AUSTIN SPORTS CENTER

BURY
221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel (512) 328-0011 Fax (512) 328-0325
TBE Registration Number F-1048
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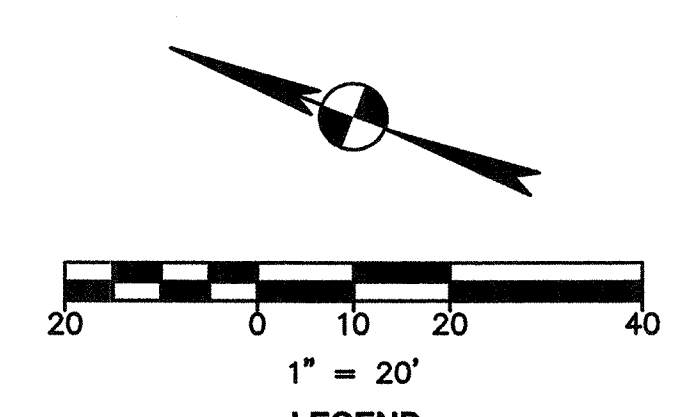
APPROVAL
REVISION
DATE
NO.

DESIGNED BY: GJB, PSD
DESIGNED BY: GJB, DMM
REVIEWED BY: DMM, JRN
PROJECT NO.: 108724-10002

SHEET
9
OF

10-72-2013

SD-13-00005



LEGEND		
EXISTING	PROPOSED	DESCRIPTION
(000)		PROPERTY (R.O.W.) LINE RECORD INFORMATION
⊗	⊙	LIGHT POLE
⊗	⊙	POWER POLE
⊗	⊙	DOWN OUT
⊗	T	TRANSFORMER (SIZE VARIES)
⊗	⚡	FIRE HYDRANT
⊗	⚡	WATER VALVE
⊗	WM	WATER METER
WTRMHC	WM	WATER METER VAULT
⊗	⊗	WATER MANHOLE
⊗	⊗	TELEPHONE RISER
⊗	⊗	CABLE TIE RISER
⊗	⊗	ELECTRIC BOX
⊗	⊗	ELECTRIC RIG
⊗	⊗	GAS METER
⊗	⊗	GAS VALVE
⊗	⊗	TRAFFIC CONTROL BOX
⊗	⊗	TRAFFIC SIGNAL POST
⊗	⊗	GRATE INLET
⊗	⊗	CURB INLET (SIZE VARIES)
⊗	⊗	GREASE TRAP (SIZE VARIES)
SS	SS	STORMSEWER LINE
SS	SS	WATER LINE
SS	SS	FIRE LINE
SS	SS	WASTEWATER LINE
SS	SS	GAS LINE
SS	SS	ELECTRIC LINE
SS	SS	OVERHEAD ELECTRIC
SS	SS	UNDERGROUND TELEPHONE
SS	SS	UNDERGROUND CABLE AND INTERNE
SS	SS	TELECOMMUNICATIONS LINE
SS	SS	ELECTRIC MANHOLE (SIZE VARIES)
SS	SS	WATER MANHOLE (SIZE VARIES)
SS	SS	STORMSEWER MANHOLE (SIZE VARIES)
SS	SS	TELEPHONE MANHOLE (SIZE VARIES)
SS	SS	WATERPHONE CLEANSUIT
SS	SS	CURB & GUTTER
SS	SS	EDGE OF PAVEMENT
SS	SS	DUMPSITER
SS	SS	CONCRETE SIDEWALKS
SS	SS	HANDICAP ACCESSIBLE ROUTE
SS	SS	INNOVATIVE WATER QUALITY AF
SS	SS	WALL
SS	SS	CONTOUR
SS	SS	SPOT ELEVATION
SS	SS	DIRECTION OF FLOW
SS	SS	TREE TO BE REMOVED
SS	SS	TREE TO BE SAVED

- ACCESSIBILITY NOTES:**
1. SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP. [TAS 4.3.7]
 2. GROUND SURFACES ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM, AND SLIP RESISTANT. [TAS 4.5.1]
 3. ACCESSIBLE ROUTES MAY NOT BE A CROSS SLOPE NO GREATER THAN 1:50 [TAS 4.3.7]
- GRADING NOTES:**
1. CUT AND FILL SLOPES SHALL NOT BE GREATER THAN 3' HORIZONTAL TO 1' VERTICAL (3:1) EXCEPT WHERE SPECIFICALLY APPROVED OTHERWISE.
 2. FILL AREAS SHALL BE COMPACTED TO NINETY-FIVE (95) PERCENT MAXIMUM DENSITY, IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATIONS.
 3. CONTRACTOR TO ENSURE POSITIVE DRAINAGE IN ALL PAVED AND GRASS AREAS.
 4. GUTTER SLOPES SHALL MATCH ADJACENT PAVEMENT GRADES. NOT ALL GUTTERS ARE CATCH TYPE.
 5. DUE TO THE EXTREME SLOPING NATURE OF THE SITE, GRADES WITHIN PARKING AREAS AND DRIVE AISLES SHALL NOT EXCEED 10% MAX. IN ANY DIRECTION (MAX. 8% WITHIN FIRELANE AREA).
- RETAINING WALL NOTE:**
- A QUALIFIED, REGISTERED STRUCTURAL ENGINEER SHALL PROVIDE RETAINING WALLS FOR CONSTRUCTION. NO CONSTRUCTION MAY BEG ON RETAINING WALL UNTIL THE WALL PLANS HAVE BEEN REVIEWED BY THE CITY OF CEDAR PARK AND THE SITE'S DESIGN ENGINEER.

811
Know what's below.
Call before you dig.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

LOT 4
TWO BUCK SUBDIVISION
FINAL PLAT
SHEET "BB", SLIDES 194-195

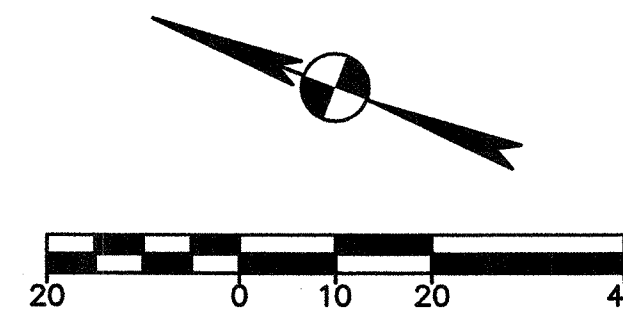
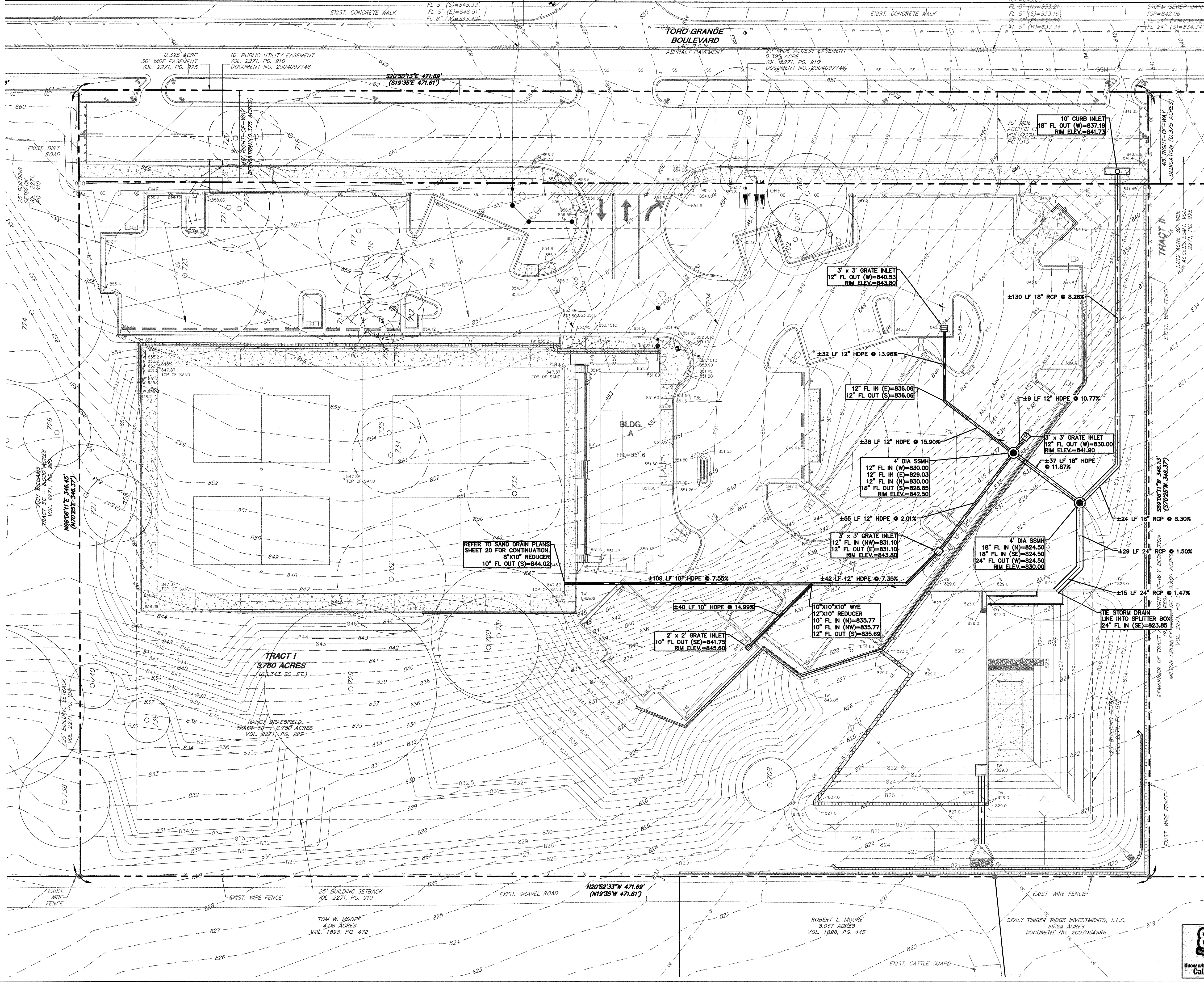
LOT 3
TWO BUCK SUBDIVISION
FINAL PLAT
CABINET "BB", SLIDES 194-195

WASTEWATER MANHOLE
TOP=857.24'
FL 8" (N)=848.35'
FL 8" (E)=848.51'
FL 8" (W)=848.43'

LOT 2
TWO BUCK SUBDIVISION
FINAL PLAT
CABINET "BB", SLIDES 194-195

WASTEWATER MANHOLE
TOP=845.86'
FL 8" (N)=833.24'
FL 8" (S)=833.16'
FL 8" (W)=833.34'

STORM-SEWER MANHOLE
TOP=842.06'
FL 24" (S)=834.34'

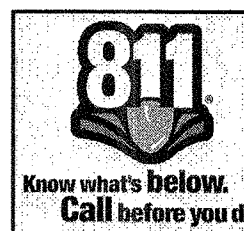


EXISTING	PROPOSED	DESCRIPTION
(0000)		PROPERTY (S.O.W.) LINE
		RECORD INFORMATION
		LIGHT POLE
		POWER POLE
		DOWN GUY
		TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT
		WATER MANHOLE
		TELEPHONE RISER
		CABLE TV RISER
		ELECTRIC BOX
		ELECTRIC METER
		GAS METER
		GAS VALVE
		TRAFFIC CONTROL BOX
		TRAFFIC SIGNAL POST
		GRATE INLET
		GRATE INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
		STORMSEWER LINE
		WATER LINE
		FIRE LINE
		WASTEWATER LINE
		GAS LINE
		ELECTRIC LINE
		OVERHEAD ELECTRIC
		UNDERGROUND TELEPHONE
		UNDERGROUND CABLE AND INTERNET
		TELECOMMUNICATIONS LINE
		ELECTRIC MANHOLE (SIZE VARIES)
		WASTEWATER MANHOLE (SIZE VARIES)
		STORMSEWER MANHOLE (SIZE VARIES)
		WASTEWATER CLEANOUT
		TELEPHONE MANHOLE (SIZE VARIES)
		CURB & GUTTER
		EDGE OF PAVEMENT
		DUMPSTER
		CONCRETE SIDEWALKS
		HANDICAP ACCESSIBLE ROUTE
		INNOVATIVE WATER QUALITY AREA
		WALL
		CONTOUR
		SPOT ELEVATION
		DIRECTION OF FLOW
		TREE TO BE REMOVED
		TREE TO BE SAVED

- ACCESSIBILITY NOTES:**
- SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP. [TAS 4.3.7]
 - GROUND SURFACES ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM, AND SLIP RESISTANT. [TAS 4.5.1]
 - ACCESSIBLE ROUTES MUST BE A CROSS SLOPE NO GREATER THAN 1:50 [TAS 4.3.7]
- NOTE:**
DRAINAGE PANELS WILL BE PROVIDED AT THE BOTTOM OF THE WEST AND SOUTH COMPATIBILITY FENCE TO ALLOW DOWNSTREAM RUNOFF.

APPROVED

OCT 31 2013



THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

APPROVAL

REVISION

DATE

NO.

BURY

221 West Sixth Street, Suite 600
Austin, Texas 78701
Tel. (512) 328-0111 Fax. (512) 328-0325
TBPCE Registration Number F-1048
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STATE OF TEXAS
DANIEL R. MANNING
111560
GENERAL ENGINEER
EXPIRATION DATE 10-29-2013

DRAINAGE PLAN

AUSTIN SPORTS CENTER BRASSFIELD
1401 TORO GRANDE BOULEVARD

AUSTIN SPORTS CENTER

DRAWN BY: G.L.B., PSD
DESIGNED BY: G.L.B., DMM
REVIEWED BY: DMM, JRN
PROJECT NO.: 108724-10002

SHEET
14
OF 25

SD-13-00005

TSS Removal Calculations 04-20-2009

Project Name: ASC - Brassfield, Cedar Park
Date Prepared: 10/4/2013

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

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

where: L_M TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
 A_N = Net increase in impervious area for the project
 P = Average annual precipitation, inches

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

County = Williamson
Total project area included in plan = 3.75 acres
Predevelopment impervious area within the limits of the plan = 0.00 acres
Total post-development impervious area within the limits of the plan = 1.63 acres
Total post-development impervious cover fraction = 0.43
 P = 32 inches

 L_M TOTAL PROJECT = 1414 lbs.

* The values entered in these fields should be for the total project area.

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

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

Drainage Basin/Outfall Area No. = 1

Total drainage basin/outfall area = 2.45 acres
Predevelopment impervious area within drainage basin/outfall area = 0.00 acres
Post-development impervious area within drainage basin/outfall area = 1.60 acres
Post-development impervious fraction within drainage basin/outfall area = 0.65
 L_M THIS BASIN = 1395 lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Sand Filter
Removal efficiency = 89 percent

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.RG-348 Page 3-33 Equation 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

where: A_C = Total On-Site drainage area in the BMP catchment area
 A_i = Impervious area proposed in the BMP catchment area
 A_p = Pervious area remaining in the BMP catchment area
 L_R = TSS Load removed from this catchment area by the proposed BMP

A_C = 2.45 acres
 A_i = 1.60 acres
 A_p = 0.85 acres
 L_R = 1593 lbs

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

Desired L_M THIS BASIN = 1414 lbs. F = 0.89

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 = 1.60 inches
Post Development Runoff Coefficient = 0.46
On-site Water Quality Volume = 6592 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 = 0
Off-site Runoff Coefficient = 0.00
Off-site Water Quality Volume = 0 cubic feet

Storage for Sediment = 1318

Total Capture Volume (required water quality volume(s) x 1.20) = 7910 cubic feet

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins = 7910 cubic feet

Minimum filter basin area = 659 square feet

Maximum sedimentation basin area = 2637 square feet For minimum water depth of 2 feet

Minimum sedimentation basin area = 165 square feet For maximum water depth of 8 feet

J:\108724\10002\SPREADSHEETS\2013-10-4_TSS_REMOVAL_CALC_SAND_FILTER.XLS

WATER QUALITY POND VOLUME

Sedimentation Pond	Depth (Ft.)	Area (S.F.)	Inc. Vol. (C.F.)	Total Vol. (C.F.)
823.25	0.00	0	0	0
824.00	0.75	690	518	518
825.00	1.00	763	763	1,281
826.00	1.00	837	837	2,118
827.00	1.00	910	910	3,028
828.00	1.00	994	994	4,022
829.00	1.00	1,085	1,085	5,107

Filtration Pond	Depth (Ft.)	Area (S.F.)	Inc. Vol. (C.F.)	Total Vol. (C.F.)
823.25	0.00	840	0	0
823.25	0.10	880	88	88
824.00	0.75	1,035	776	865
825.00	1.00	1,248	1,248	2,113
826.00	1.00	1,479	1,479	3,592
827.00	1.00	1,728	1,728	5,320
828.00	1.00	1,995	1,995	7,315
829.00	1.00	2,280	2,280	9,595

REQUIRED WQ VOL. = 7,910 CU. FT.

PROVIDED WQ VOL. = 8,347 CU. FT.

DETENTION POND VOLUME

Elevation (Ft. msl)	Depth (Ft.)	Area (S.F.)	Inc. Vol. (C.F.)	Total Vol. (C.F.)
821.50	0.00	0	0	0
822.00	0.50	2,353	1,147	1,147
823.00	1.00	3,599	3,599	4,746
824.00	1.00	3,801	3,801	8,547
825.00	1.00	4,009	4,009	12,556
826.00	1.00	4,224	4,224	16,780
827.00	1.00	7,064	7,064	23,844
828.00	1.00	7,435	7,435	31,279
829.00	1.00	7,811	7,811	39,110

Total Site Peak Flows Summary

Storm Event	Existing Flow (CFS)	Proposed Flow (CFS)	Proposed Flow w/ Detention (CFS)	Pond Elevation	STORAGE (AC-FT)
2 Year Storm	4.90	7.73	3.35	824.41	0.20
10 Year Storm	12.94	16.15	7.88	826.26	0.38
25 Year Storm	17.86	21.17	10.50	827.08	0.49
100 Year Storm	26.14	29.61	14.77	828.22	0.68

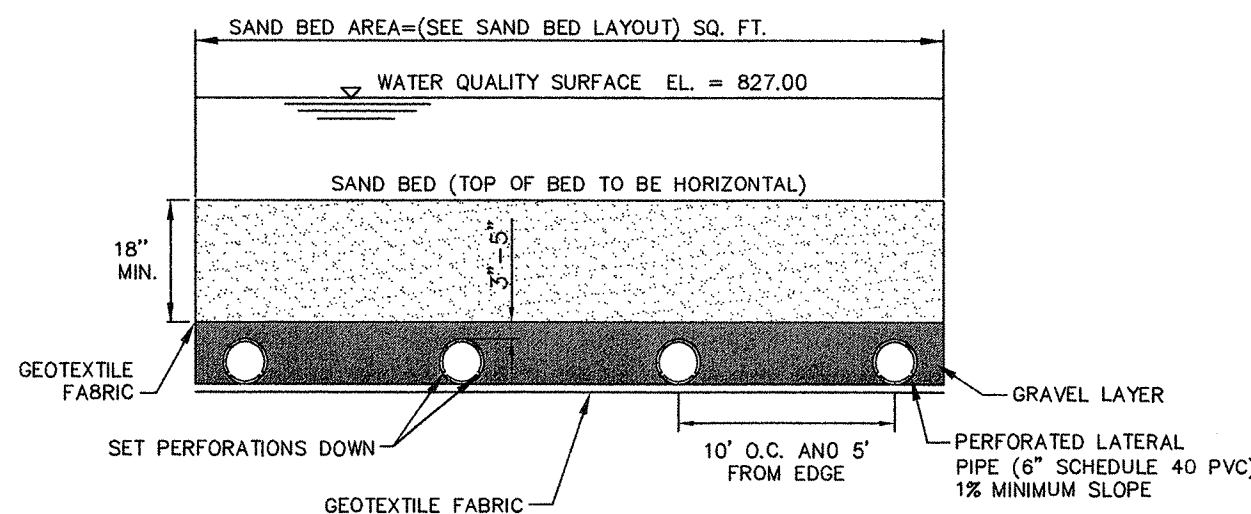
** Flows derived using the SCS Method in HEC-HMS

** Flows used in sizing detention facilities

TABLE 1-9
DRAINAGE MATTING SPECIFICATIONS

PROPERTY	TEST METHOD	UNIT	SPECIFICATION
MATERIAL	NONWOVEN GEOTEXTILE FABRIC		
UNIT WEIGHT		OZ/SQ. YD.	20
FLOW RATE (FABRIC)		GPM/FT2	180 (MIN.)
PERMEABILITY	ASTM D-2434	CM/SEC	12.4X10-2
GRAB STRENGTH (FABRIC)	ASTM D-1682	LB.	DRY LG. 90 DRY WD: 70 WET LG. 95 WET WD: 70
PUNCTURE STRENGTH	COE-CW-02215	LB.	42 (MIN.)
MULLEN BURST STRENGTH	ASTM D-1117	PSI	140 (MIN.)
EQUIV. OPENING SIZE	US STANDARD SIEVE	NO.	100 (70-120)
FLOW RATE (DRAINAGE CORE)	DREXEL UNIV. TEST METHOD	GPM/FT. WIDTH	14

SOURCE: CITY OF AUSTIN

SAND BED PROFILE
(WITH GRAVEL FILTER)
SCALE: N.T.S.

FOR FILTRATION PONDS

THE GEOTEXTILE FABRIC (FOR PROTECTION OF GEOMEMBRANE) SHALL MEET THE FOLLOWING SPECIFICATIONS:

SAND BED AND GEOTEXTILE FABRIC

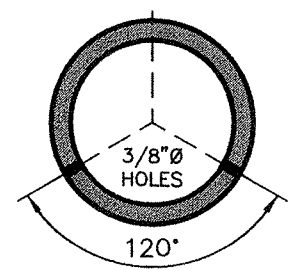
FIRST (TOP) LAYER- FINE SAND (ASTM C-33), 0.02-0.04 INCH, A MINIMUM OF EIGHTEEN (18) INCHES.

SECOND LAYER- ONE-HALF (0.5) TO ONE AND ONE-HALF (1.5) INCH DIAMETER WASHED, ROUNDED, RIVER GRAVEL. THREE (3) TO FIVE (5) INCHES OF GRAVEL IS REQUIRED UNDER THE LATERAL PIPES.

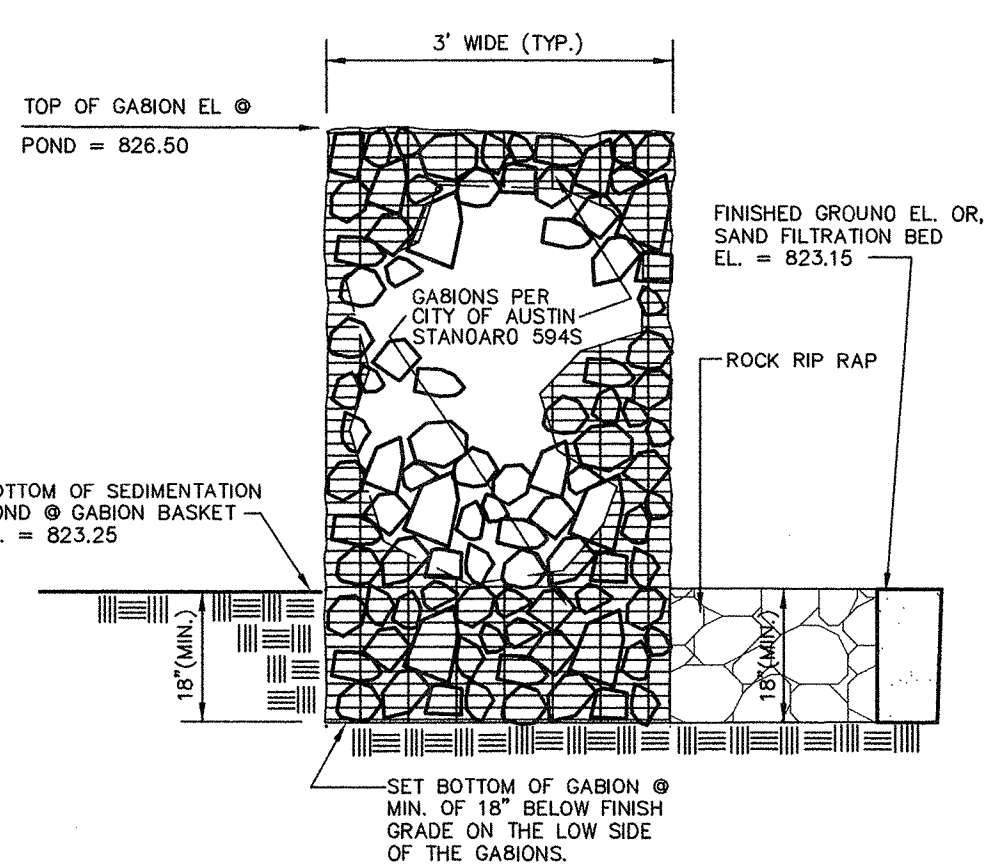
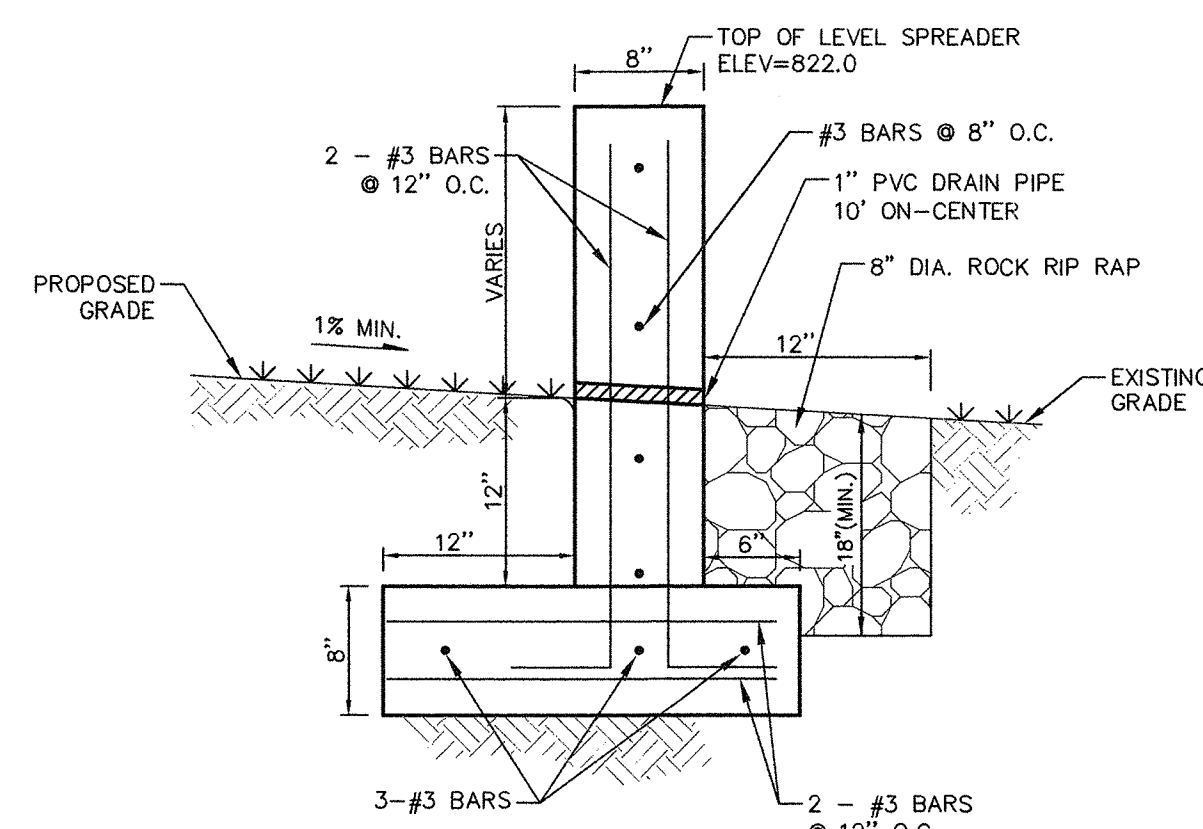
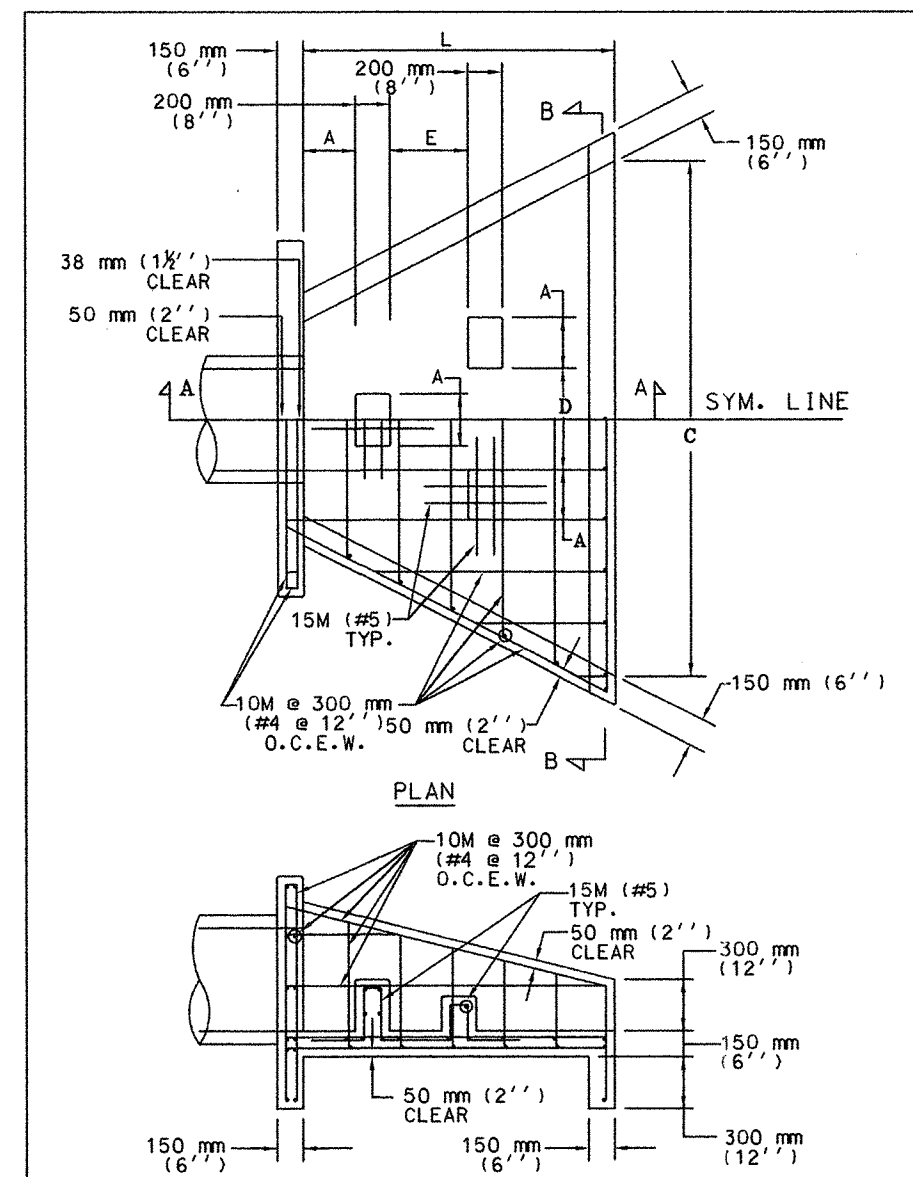
THE TWO LAYERS MUST BE SEPARATED FROM EACH OTHER USING SUITABLE GEOTEXTILE FABRIC MEETING THE FOLLOWING SPECIFICATIONS:

TABLE 1-7

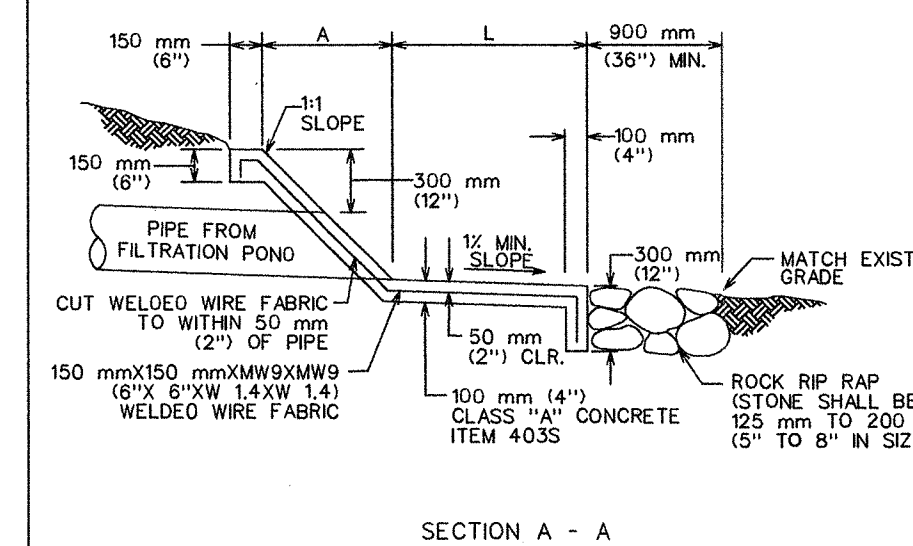
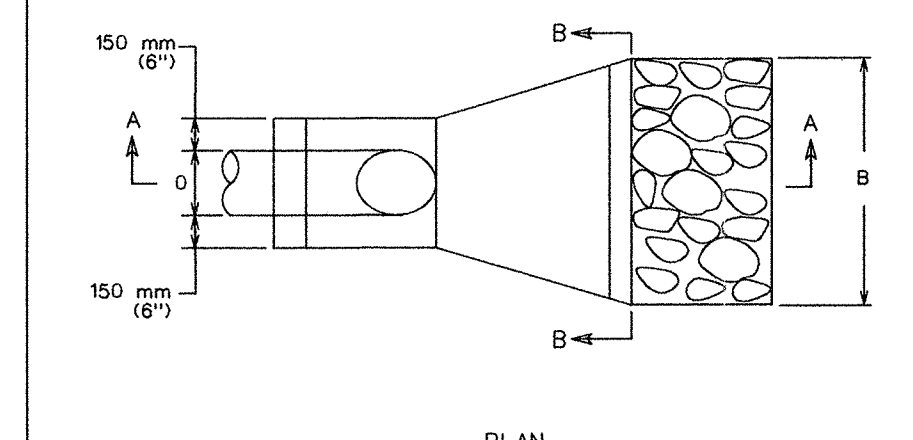
PROPERTY	TEST METHOD	UNIT	SPECS.
MATERIAL	NONWOVEN GEOTEXTILE		
UNIT WEIGHT		OZ/SQ.YD.	8 (MIN.)
FILTRATION RATE		IN/SEC	0.08 (MIN.)
PUNCTURE STRENGTH	ASTM 0-75(MOD.)	LB.	125 (MIN.)
MULLEN BURST STRENGTH	ASTM 0-751	PSI	400 (MIN.)
TENSILE STRENGTH	ASTM D-1682	LB.	200 (MIN.)
EQUIV. OPENING SIZE	US STANDARD SIEVE	NO.	80 (MIN.)



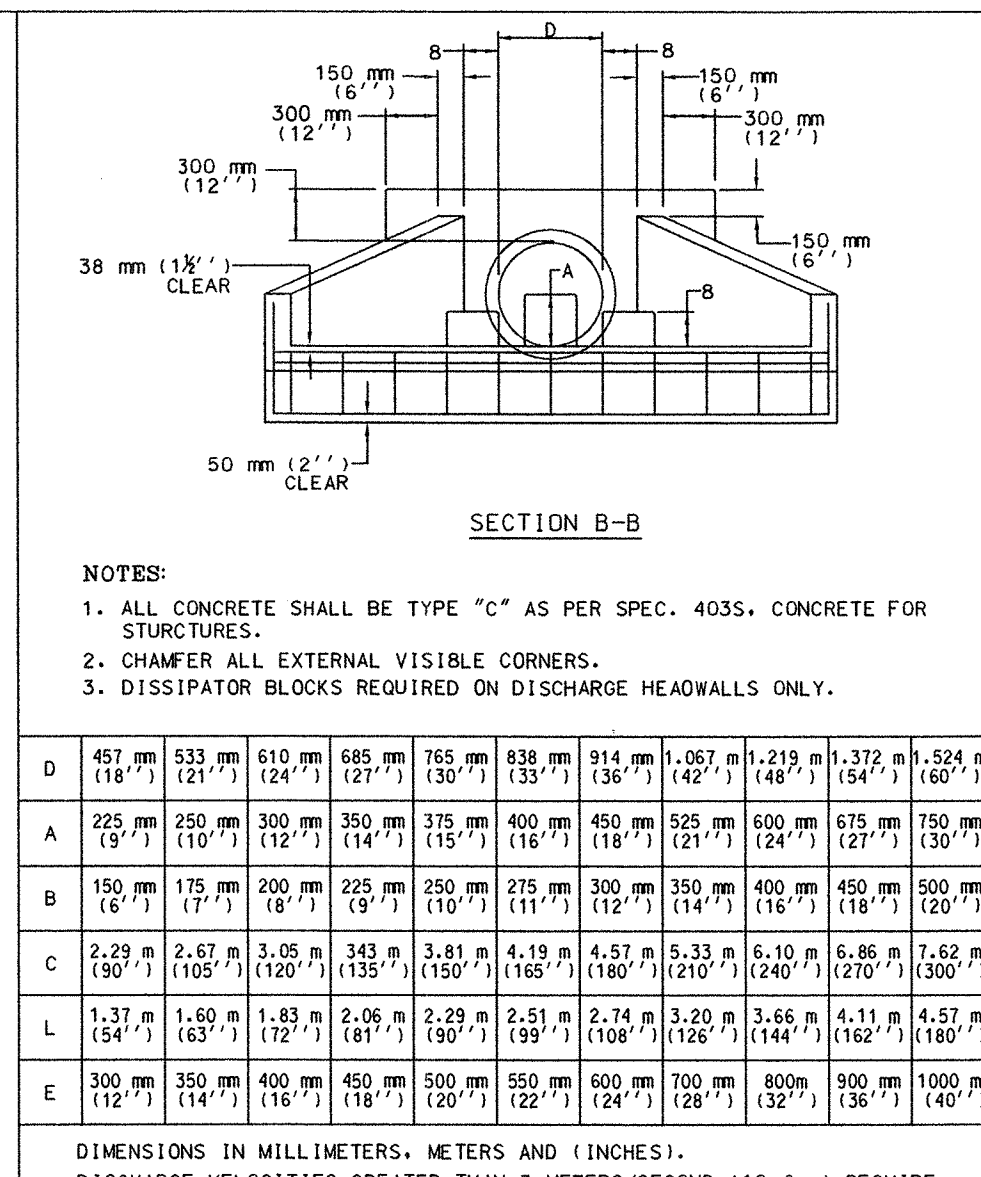
PERFORATION LAYOUT

GABION BASKET WALL
SCALE: N.T.S.CONCRETE LEVEL SPREADER
SCALE: N.T.S.

CITY OF AUSTIN
DEPARTMENT OF WATERRESOURCES PROTECTION AND DEVELOPMENT REVIEW
RECORD COPY SIGNED BY BILL GARDNER 08/20/07
STANDARD NO. 508S-13
1 OF 2



CITY OF AUSTIN
DEPARTMENT OF WATERRESOURCES PROTECTION AND DEVELOPMENT REVIEW
RECORD COPY SIGNED BY GEORGE E. OSWALD 3/15/05
STANDARD NO. 508S-15
1 OF 2

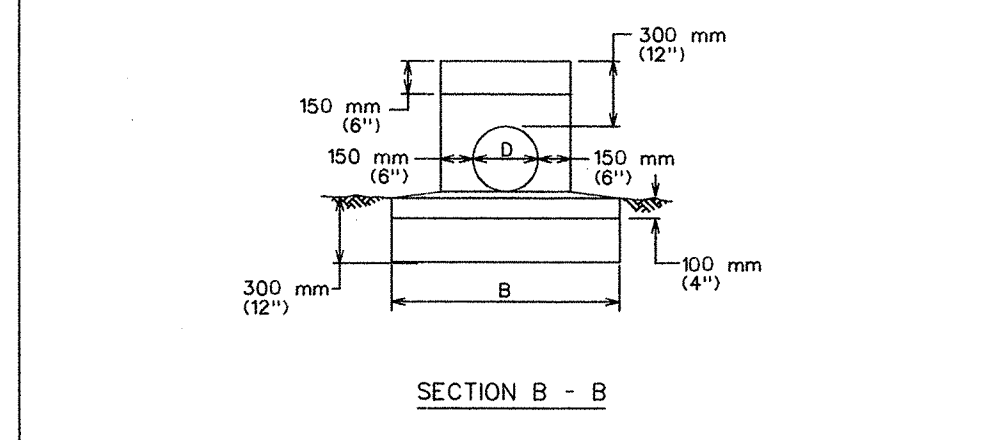


NOTES:
1. ALL CONCRETE SHALL BE TYPE "C" AS PER SPEC. 403S. CONCRETE FOR STRUCTURES.
2. CHAMFER ALL EXTERNAL VISIBLE CORNERS.
3. DISSIPATOR BLOCKS REQUIRED ON DISCHARGE HEADWALLS ONLY.

D	457 mm (18")	533 mm (21")	610 mm (24")	685 mm (27")	765 mm (30")	838 mm (33")	914 mm (36")	1,067 mm (42")	1,219 mm (48")	1,372 mm (54")	1,524 mm (60")
A	225 mm (9")	250 mm (10")	300 mm (12")	350 mm (14")	375 mm (15")	400 mm (16")	450 mm (18")	525 mm (21")	600 mm (24")	675 mm (27")	750 mm (30")
B	150 mm (6")	175 mm (7")	200 mm (8")	225 mm (9")	250 mm (10")	275 mm (11")	300 mm (12")	350 mm (14")	400 mm (16")	450 mm (18")	500 mm (20")
C	2.29 m (7'6")	2.67 m (8'9")	3.05 m (10'0")	3.43 m (11'3")	3.81 m (12'6")	4.19 m (13'9")	4.57 m (15'0")	5.33 m (17'6")	6.10 m (20'0")	6.86 m (22'6")	7.62 m (25'0")
L	1.37 m (4'6")	1.60 m (5'3")	1.83 m (6'0")	2.06 m (6'9")	2.29 m (7'6")	2.51 m (8'3")	2.74 m (9'0")	3.20 m (10'6")	3.66 m (12'0")	4.11 m (13'6")	4.57 m (15'0")
E	300 mm (12")	350 mm (14")	400 mm (16")	450 mm (18")	500 mm (20")	550 mm (22")	600 mm (24")	680 mm (27")	760 mm (30")	840 mm (33")	920 mm (36")

DIMENSIONS IN MILLIMETERS, METERS AND INCHES.
DISCHARGE VELOCITIES GREATER THAN 3 METERS/SECOND (10 FPS) REQUIRE ROCK OUTLET PROTECTION.

CITY OF AUSTIN
DEPARTMENT OF WATERRESOURCES PROTECTION AND DEVELOPMENT REVIEW
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2 OF 2



A	450 mm (18")	500 mm (20")	550 mm (22")	600 mm (24")	675 mm (27")
B	750 mm (30")	800 mm (32")	850 mm (34")	900 mm (36")	1,025 mm (41")
D	150 mm (6")	200 mm (8")	250 mm (10")	300 mm (12")	375 mm (15")
L	600 mm (24")	600 mm (24")	750 mm (30")	900 mm (36")	1,200 mm (48")

CITY OF AUSTIN
DEPARTMENT OF WATERRESOURCES PROTECTION AND DEVELOPMENT REVIEW
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STANDARD NO. 508S-15
2 OF 2

APPROVED

PLANNING DEPT.

OCT 31 2013



THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

POND DETAILS

AUSTIN SPORTS CENTER BRASSFIELD
1401 TORO GRANDE BOULEVARD

AUSTIN SPORTS CENTER

DRAWN BY: GLE, PSD

DESIGNED BY: GLE, DMM

REVIEWED BY: DMM, JRN

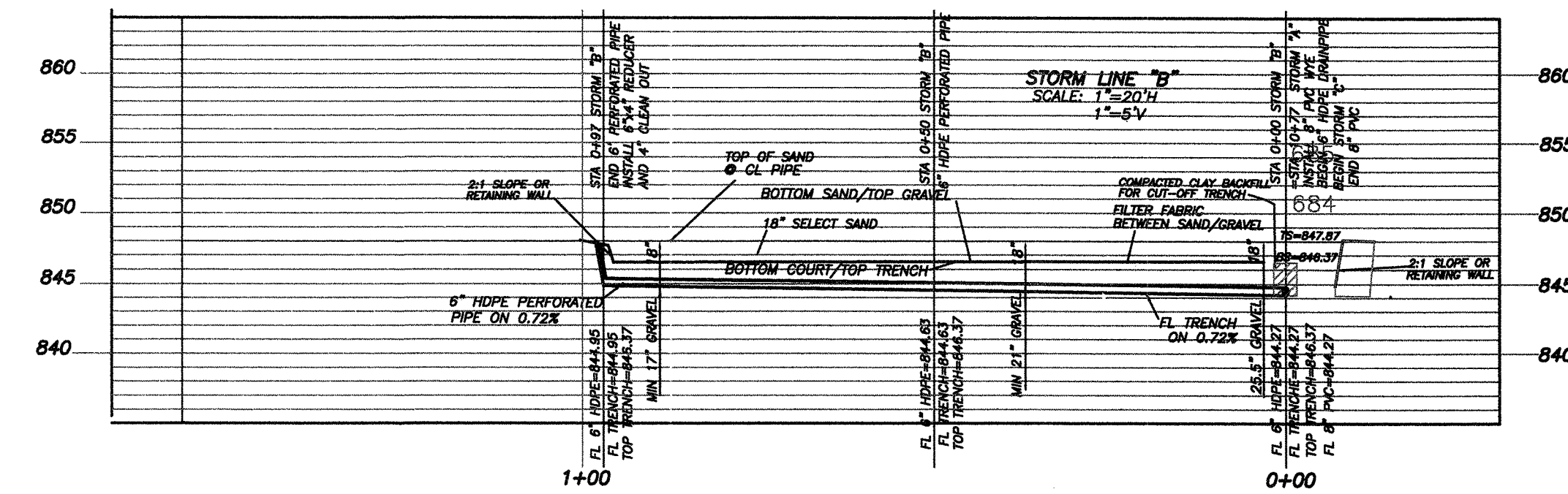
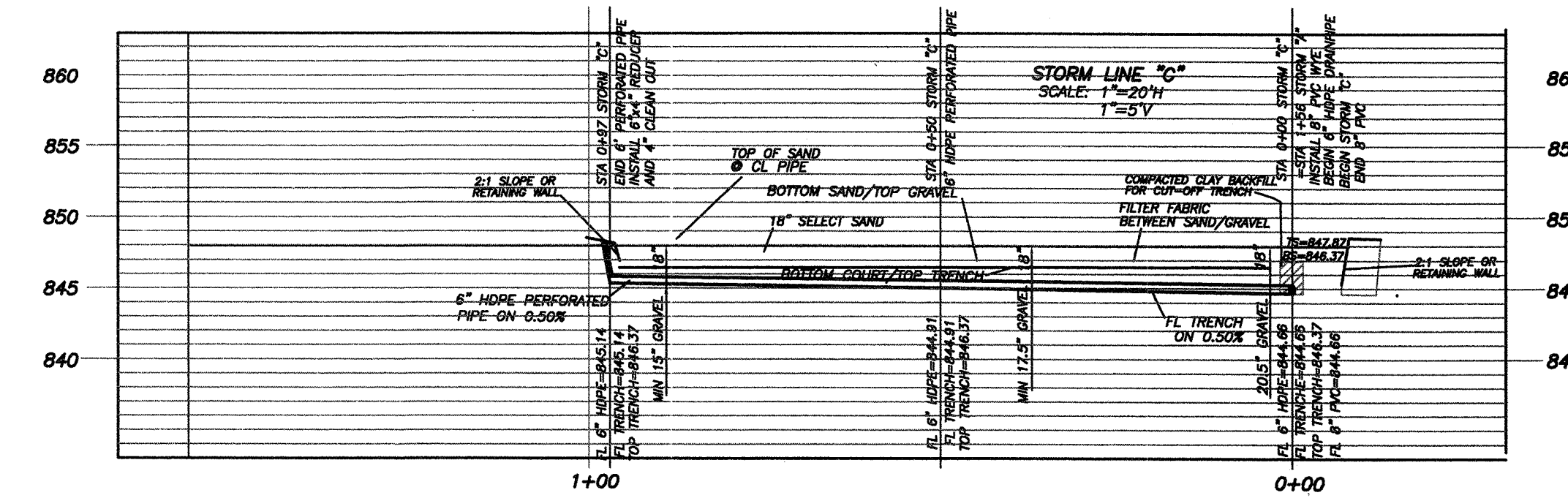
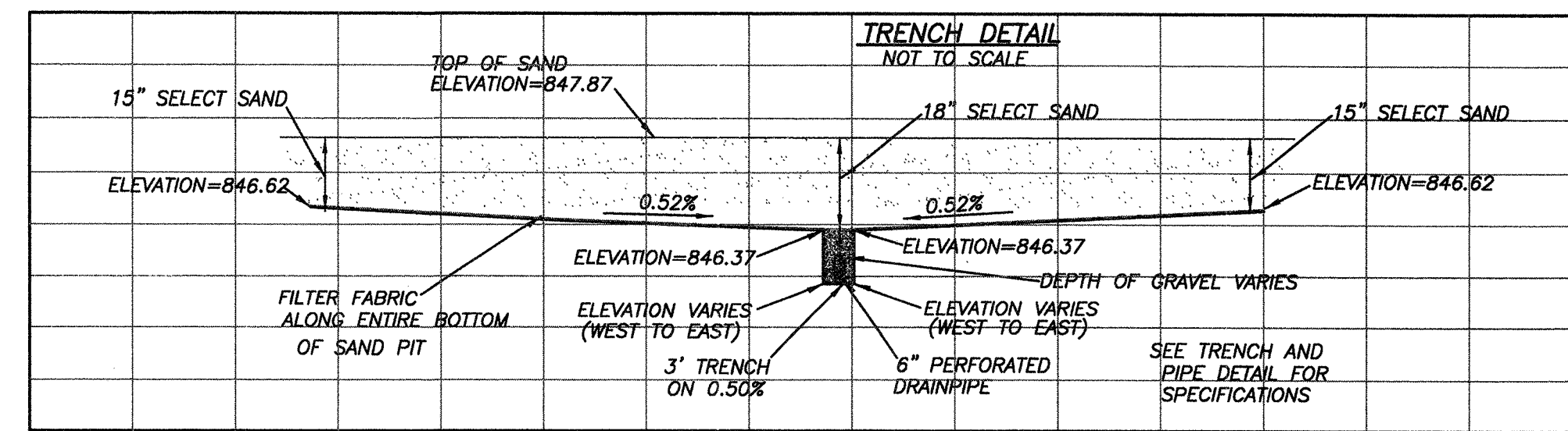
PROJECT NO.: 108724-10002

SHEET

16

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25

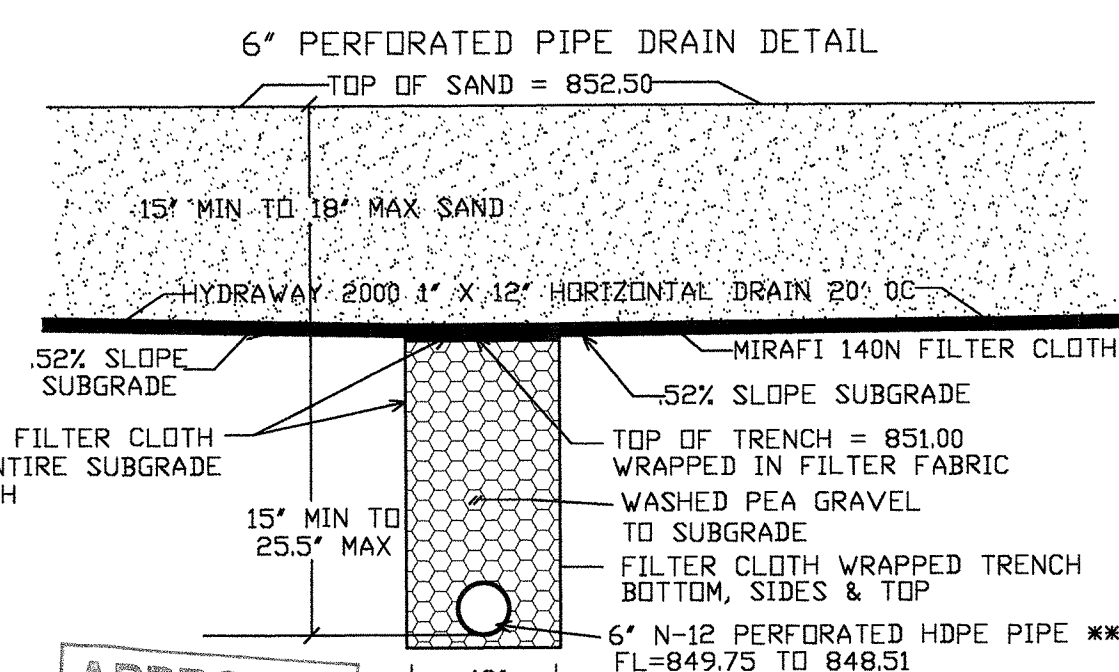


LEGEND

-
- FL=650.50
FLOWLINE OF TRENCH OR PIPE
- TS=650.50
TOP OF SAND
- BS=650.50
BOTTOM OF SAND
- ← DIRECTION OF FLOW
- CLEANOUT

Description
Not more than 10% of the particles greater than 1/2" (12mm)
Not more than 10% of the particles greater than 1/2" (12mm)
Not more than 10% of the particles less than 2 mm

NOTE: WRAP TRENCH BOTTOM, SIDES AND TOP WITH MIRAFI 140N FILTER CLOTH, THEN A LAYER OF FILTER CLOTH SHALL BE LAID OVER ENTIRE SAND PIT BOTTOM TWO TOTAL LAYERS OF FILTER CLOTH OVER TRENCH TOP.



***NOTE: 6" ADS N-12 PERFORATED
PIPE CATALOG # 06110020 OR
EQUIVALENT SHALL BE USED

AUSTIN JUNIOR VOLLEYBALL SAND COURT DRAINAGE SYSTEM PLAN & PROFILE

SITUATED IN THE
CITY OF CEDAR PARK, WILLIAMSON COUNTY, TEXAS
OWNERS: AUSTIN JUNIOR VOLLEYBALL ASSOCIATION
1420 TORO GRANDE BLVD
CEDAR PARK, TX. 78613

20

DEH CONSULTING, LTD

2513 MOSSWOOD DR.
CARROLLTON, TEXAS 75010 FIRM M
PHONE: (972) 345-1231 5663

SCALE	DATE	JOB NO.	DRAWN
1"=10'	09/17/2013	1219	STARNES

SUBDRAINAGE SPECIFICATIONS

PART 1: GENERAL

1.01 RELATED WORK

Review Contract Documents for requirements that affect work of this section. Specification sections that directly relate to work of this section include, but are not limited to:

- Section 02315 - Excavation & Backfill
Section 02630 - Storm Drainage Pipe

SYSTEM DESCRIPTION

The subsurface drain system should consist of the Hydraway™ geocomposite drain and outlet pipes of the type, size and dimensions in accordance with these specifications and project plans, or as directed by the project engineer. The drain consists of a geotextile filter fabric heat fusion bonded to an internal high density polyethylene (HDPE) core. The drain should be lightweight, flexible, have minimal "memory" when placed in horizontal position and sufficiently durable to withstand automated and/or manual installation procedures.

PART 2: PRODUCTS

2.01 GEOCOMPOSITE SUBSURFACE DRAIN SYSTEM

ACCEPTABLE MANUFACTURERS:

SUBSURFACE DRAIN: Hydraway 2000 manufactured by:
Midwest Diversified Technology Inc., Caseyville, IL 62232
Telephone: 800-223-7015 Fax: 618-398-5722, Email: info@hydraway.net

COMPONENTS

The drain consists of a geotextile filter fabric heat fusion bonded to an internal high density polyethylene (HDPE) core. The drain should be lightweight, flexible, and sufficiently durable to withstand automated and/or manual installation procedures.

See Subsurface Drainage Plans for detail of construction of drain.

- Core: High Density Polyethylene (HDPE)
 - Length: 150 to 550 feet
 - Widths: 6, 12, 18 or 24 inches
 - Depth: 1" minimum
- Geotextile Fabric: Tencate - Mirafi® 140N
 - 4.5 ounce minimum
 - Heat fusion bonded to the core
- Accessories:
 - Couplers, ends, outlets adapters as required and recommended by the manufacturer.
- Geocomposite subsurface drain system shall meet the ASTM standards found on this sheet as a minimum.

Sub-Surface Drainage

02639

ASTM STANDARDS:

CORE:

ASTM D-1621 Standard Test Methods for Compressive Properties of Rigid Cellular Plastics

ASTM D-4716 Standard Method for Constant Head Hydraulic Flow Transmissivity (in-plane flow) of Geotextiles and Geotextile Related Products

ASTM D-1876 Standard Test Method for Peel Resistance of Adhesives (T-Peel Test)

Table 1 – Core Material Requirements

Product	Average Test Value	ASTM Test Method
Compressive Strength at maximum deflection of 20%	11,400 lbs/ft²	D1621
Flow Rate at 10 psi and gradient of 0.1	21 gpm/ft width	D4716
Peel Strength (Fabric to Core)	50 lbs/ft width	D1876

GEOTEXTILE FABRIC (4.5 oz Tencate-Mirafi® 140N):

ASTM D-4632 Standard Test Method for Grab Breaking Load and Elongation of Textiles

ASTM D-4491 Standard Test Method for Water Permeability of Geotextiles by Permittivity

ASTM D-4751 Standard Test Method for Determining Apparent Opening Size of a Geotextile

Table 2 – Geotextile Fabric Requirements

Product	Average Test Value	ASTM Test Method
Elongation	50 %	D4632
Grab Tensile	120 lbs	D4632
Permeability	135 gal/min/ft²	D4491
Apparent Opening Size	70 U.S. Std. Sieve	D4751

02639 – Sub-Surface Drainage, revised April 3, 2008

2

PART 3: EXECUTION

3.03 INSTALLATION / QUALITY ASSURANCE

1. INSTALLATION EQUIPMENT

All equipment necessary and required for the proper construction of the drain system should be in working condition and approved by the engineer. The contractor should also provide equipment to obtain proper compaction as needed.

2. INSTALLATION AND BACKFILL

A. Geocomposite Drain

Hydraway should be placed "points down" so the grid backing is at the top, this helps to protect the drain during the initial placement and compaction of the rock backfill.

Until the backfill is placed on the field, ALL wheeled traffic should be kept OFF the drain lines. Once a minimum of 4 inches of cover is placed, then TRACKED equipment can drive over the Hydraway lines. Tracked equipment will NOT damage the Hydraway lines as long as a minimum of 4 inches of cover is provided.

After 6 to 9 inches of cover is placed, wheeled equipment can be driven over the drain locations.

All necessary splices are to be made with connections furnished by the manufacturer or approved by the engineer in accordance with the project specifications. The geocomposite drain and connectors should be inspected prior to backfill being placed. If the drain is found to be out of alignment or damaged, it should be removed and replaced as directed by the engineer.

B. PVC/HDPE Outlet Pipe/Collector

Outlet Pipes should consist of 6-inch diameter (minimum) PVC conforming to ASTM D3034 (Standard Specification for Type PSM Poly (Vinyl Chloride)-PVC Sewer and Pipe Fittings. HDPE pipe may also be used.

The pipe joints should conform to the requirements of ASTM D3212 (Standard Specification for Joints for Drain and Sewer Plastic Pipes using Flexible Elastomeric Seals. The manufacturer shall provide the necessary fittings/joints used to join sections of the geotextile drain and connect the drain to the collectors and outlets.

The contractor should do all necessary excavation at the location and depth shown on the plans. A minimum 1% grade shall be provided for the outlet/collector pipes. The width of the outlet/collector pipe trench should be sufficient to permit jointing of the pipe and thorough tamping of the bedding material under and around the pipe. The trench width should not be less than the external diameter of the pipe plus 6 inches on each side, nor should it be wider at any point below the top of the pipe than the width of the pipe plus 12 inches on each side. The trench should extend to a depth of 6 inches below the pipe elevation. The trench walls should be approximately vertical, and excavated, braced and/or shored as required for safety in accordance with local governing laws.

Where soft or unstable soil conditions are encountered at the planned grade, they should be removed and replaced with approved granular material. The granular backfill should be compacted to provide adequate support for the outlet pipe. The engineer should determine the depth of removal needed and type of granular backfill to be used. If the excavation extends below the planned depth, it should be backfilled in accordance with the engineer's recommendations using approved materials. Excavated material should be removed from the site or reused as directed by the engineer.

The geocomposite drain shall connect to the outlet/collector pipes or may daylight for discharge by gravity. Fittings shall connect the geocomposite drain to the PVC pipe in accordance with the drain manufacture's recommendations at locations specified by the project plans. A galvanized rodent gate or other approved screen may be installed at the discharge end of each outlet where pipe is used.

The amount of trench to be excavated should not exceed the amount that can be installed and backfilled in one working day.

3. SHIPPING AND STORAGE

The Hydraway Drainage System is packaged and shipped in an opaque wrap that protects the material from dust and ultraviolet light. The manufacturer recommends that the material remain wrapped or protected from exposure to ultraviolet light and from contamination until it is installed. Hydraway shall be protected from temperatures greater than 140°F.

Each roll, or shipping unit, of drain shall be marked with a tag, or other identification label showing the product type and number and the date of manufacture.

TENCATE
Mirafi

Mirafi® 140N

Mirafi® 140N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 140N is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Grab Tensile Strength	ASTM D 4632	kN (lbf)	0.53 (120) 0.53 (120)
Grab Tensile Elongation	ASTM D 4632	%	50 50
Trapezoid Tear Strength	ASTM D 4533	kN (lbf)	0.22 (50) 0.22 (50)
Mullen Burst Strength	ASTM D 5786	kPa (psi)	1650 (235)
Puncture Strength	ASTM D 4833	kN (lbf)	0.30 (68)
CBR Puncture Strength	ASTM D 6241	kN (lbf)	1.33 (300)
Apparent Opening Size (AOS)	ASTM D 4751	mm (U.S. Sieve)	0.212 (70)
Permittivity	ASTM D 4491	sec⁻¹	1.7
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5500 (135)
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70

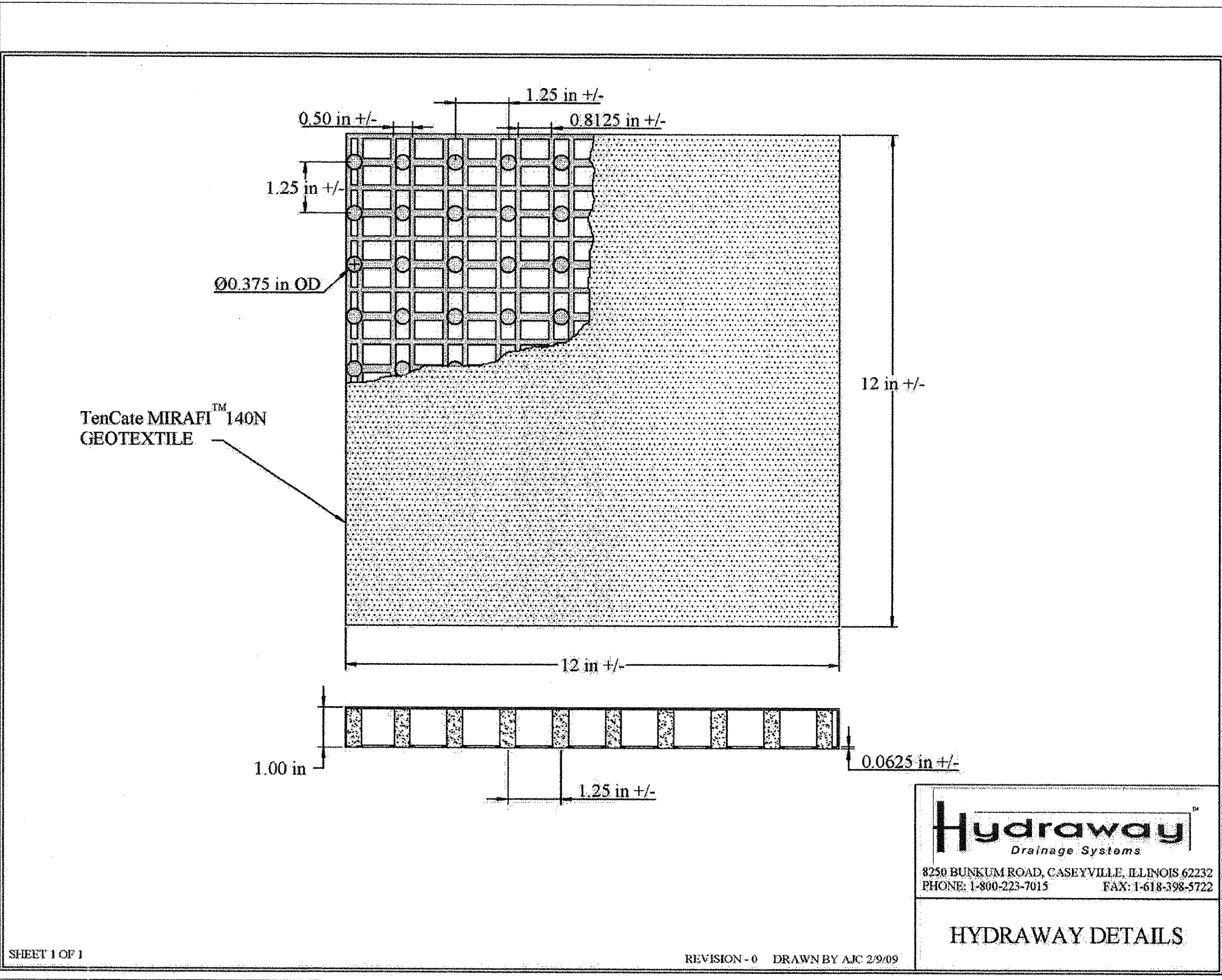
ASTM D 4833 has been replaced with ASTM D 6241

Physical Properties	Test Method	Unit	Typical Value
Weight	ASTM D 5961	g/m² (oz/yd²)	163 (4.8)
Thickness	ASTM D 5199	mm (mil)	1.1 (44)
Roll Dimensions (width x length)	—	m (ft)	3.8 x 110 (12.5 x 360)
Roll Area	—	m² (yd²)	418 (500)
Estimated Roll Weight	—	kg (lb)	74 (164)

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P20000095
ET0005

TENCATE
materials that make a difference



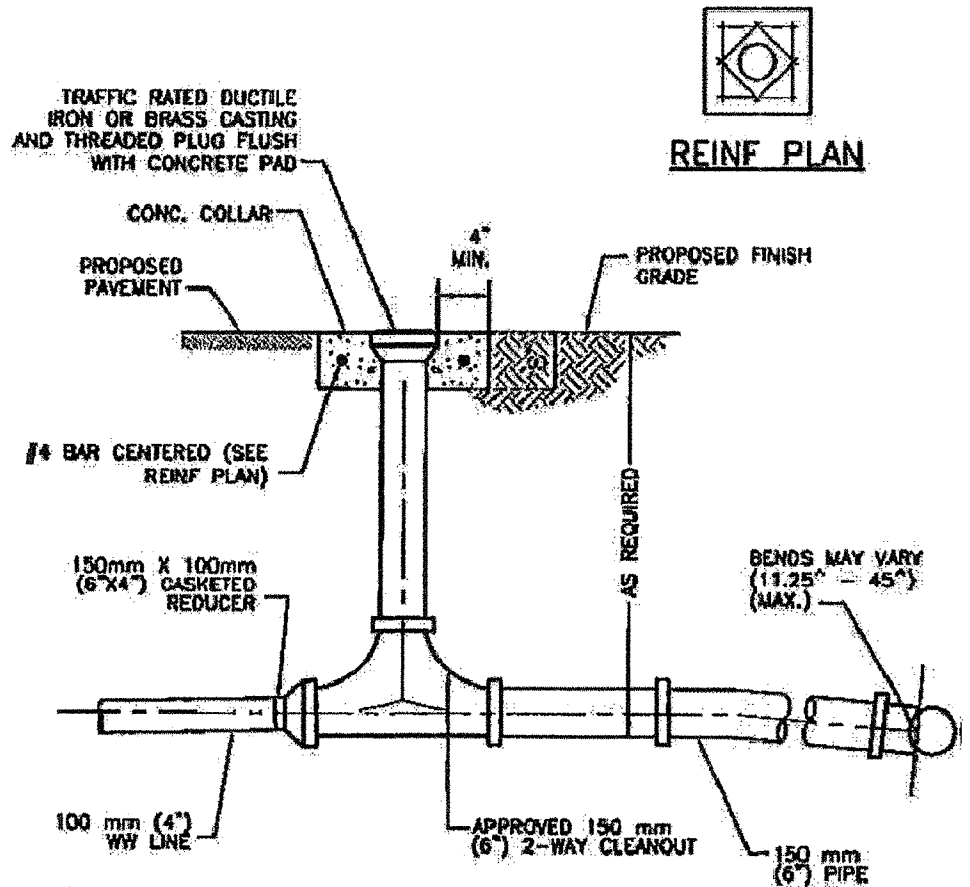
SHEET 1 OF 1

REVISION - 0 DRAWN BY AK 2/9/09

Hydraway™
Drainage Systems

8250 BUNKUM ROAD, CASEYVILLE, ILLINOIS 62232
PHONE: 1-800-223-7015 FAX: 1-618-398-5722

HYDRAWAY DETAILS



4 CLEANOUT (PRIVATE)
C791 N.T.S.

DEH CONSULTING, LTD

2513 MOSSWOOD DR.
CARROLLTON, TEXAS 75010
PHONE: (972) 345-1231 FIRM NO. 5663

SCALE	DATE	JOB NO.	DRAWN
N.T.S.	02/19/2013	1219	STARNES

APPROVED

CLANING DETAIL

OCT 8 1 2013

CITY OF CEDAR PARK

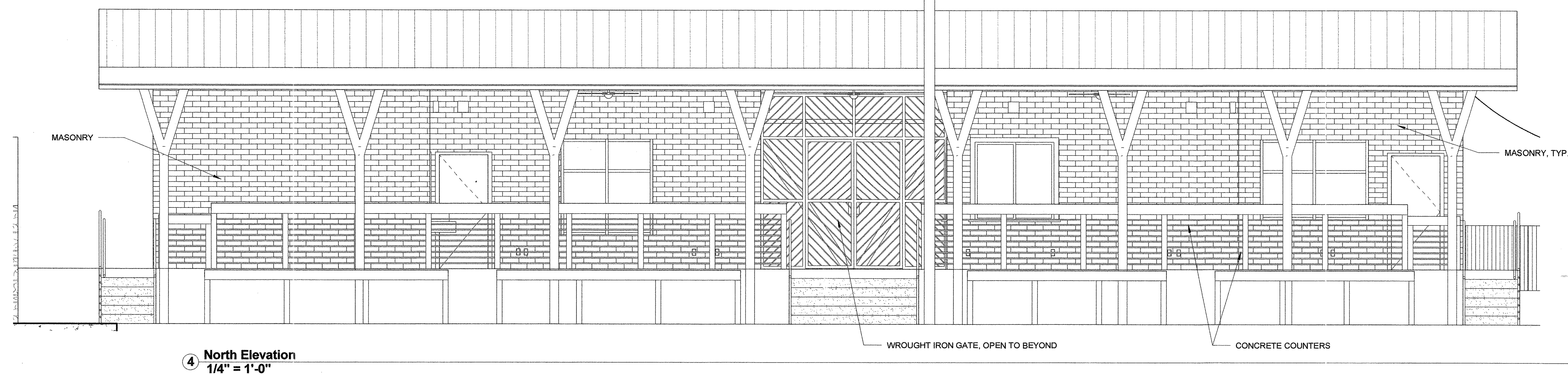
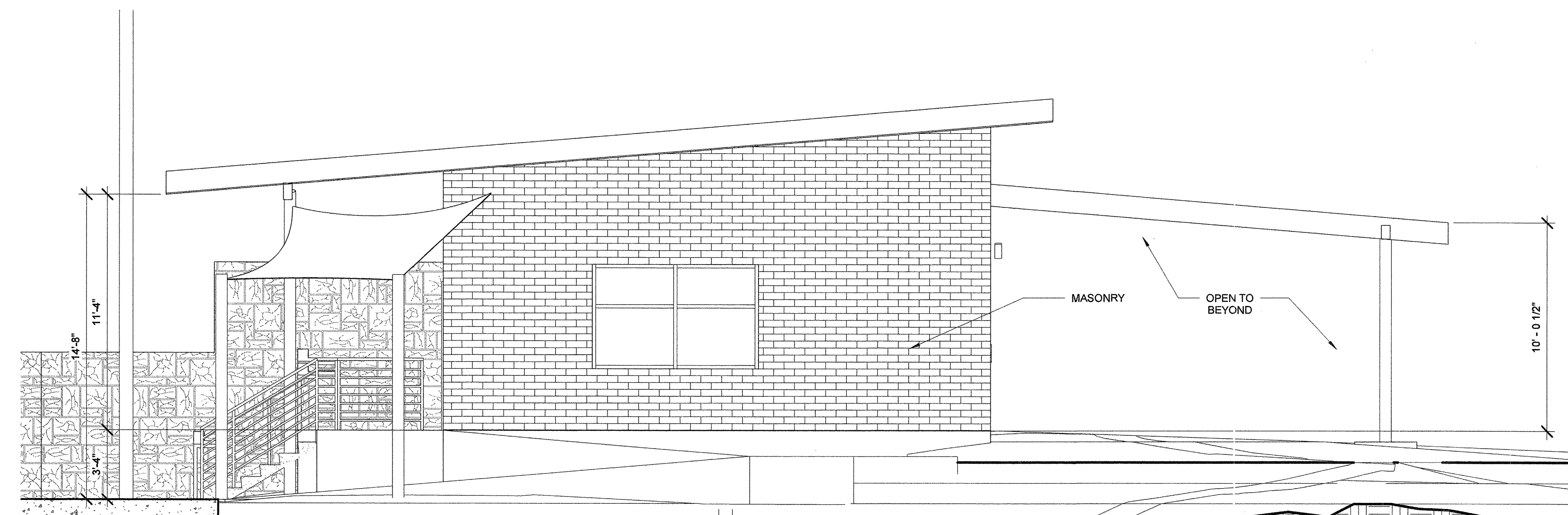
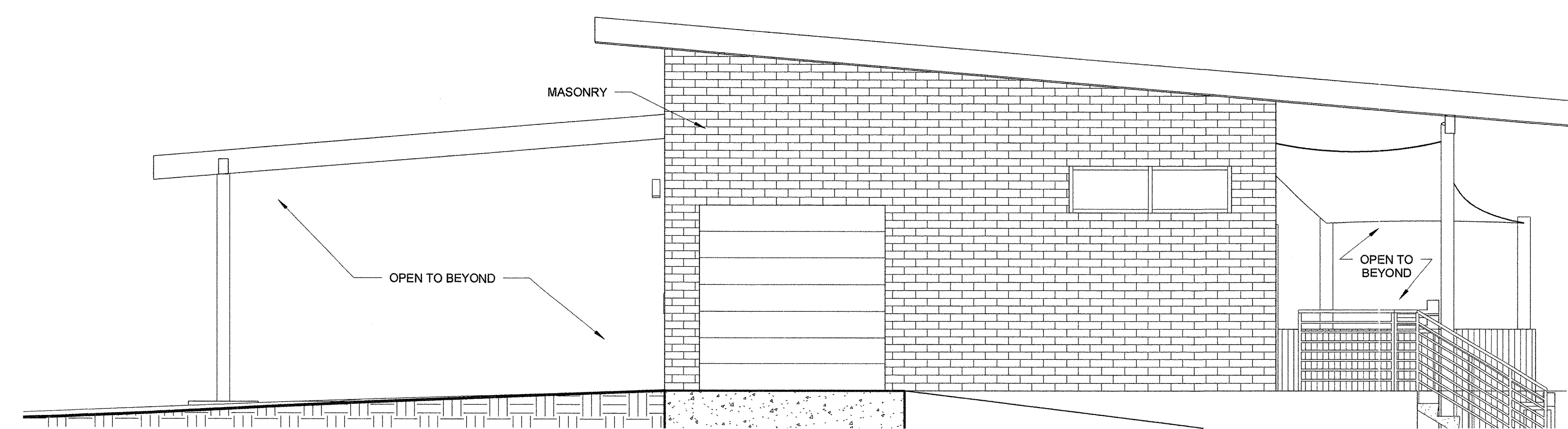
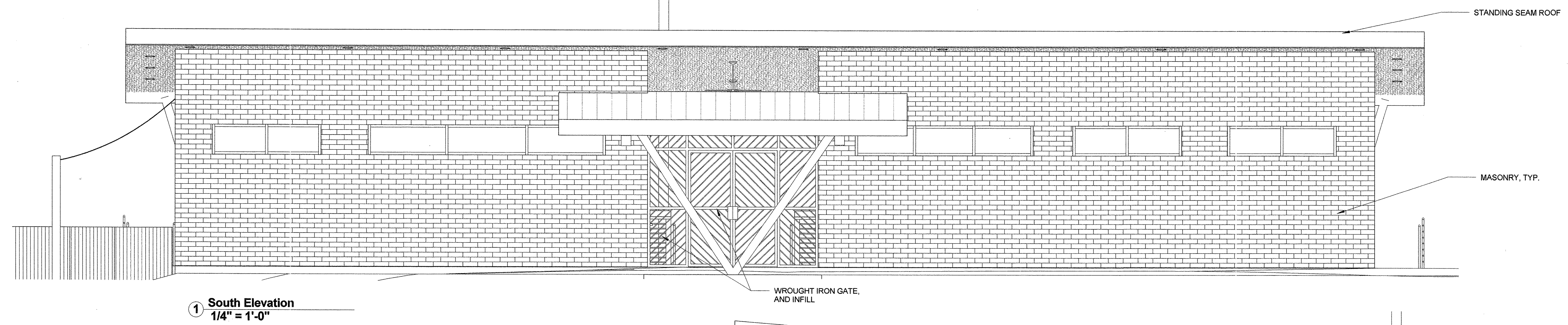
AUSTIN JUNIOR VOLLEYBALL
SAND COURT DRAINAGE SYSTEM
DETAILS AND SPECIFICATIONS

SITUATED IN THE

CITY OF CEDAR PARK, WILLIAMSON COUNTY, TEXAS

OWNERS: AUSTIN JUNIOR VOLLEYBALL ASSOCIATION
1420 TORO GRANDE BLVD
CEDAR PARK, TX. 78613

21
825



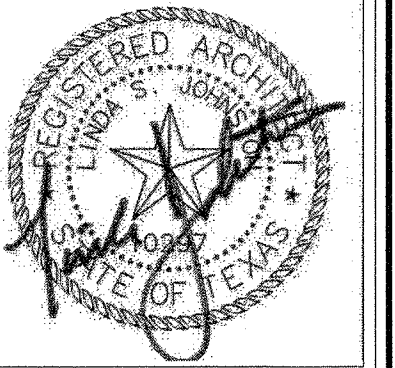
APPROVED

PLANNING DEPT.
OCT 31 2013
CITY OF CEDAR PARK

L.S. Johnston
ARCHITECTS / AIA

ARCHITECTURE
PLANNING
RENDERING

1313 East Sixth Street
Austin, Texas 78702
phone 512 478 - 4952
fax 512 478 - 4972



ASC - Cedar Park - Sand Courts
1401 Toro Grande Blvd.
Cedar Park, Texas

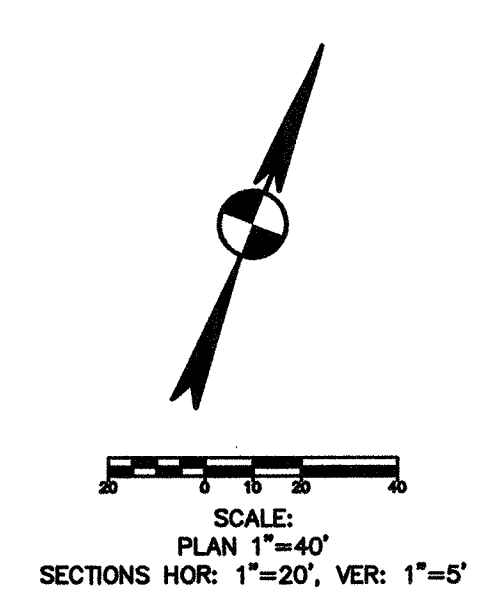
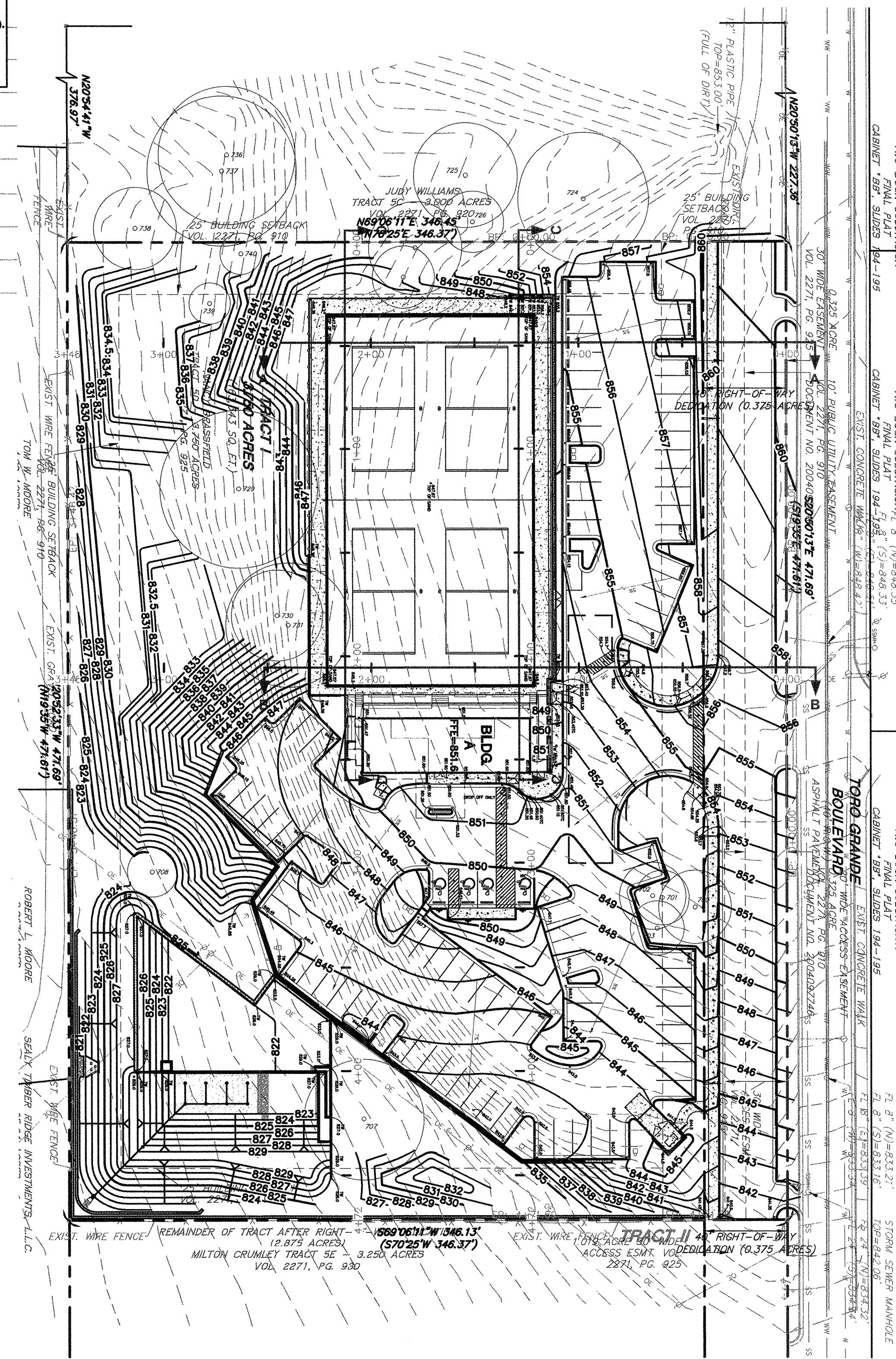
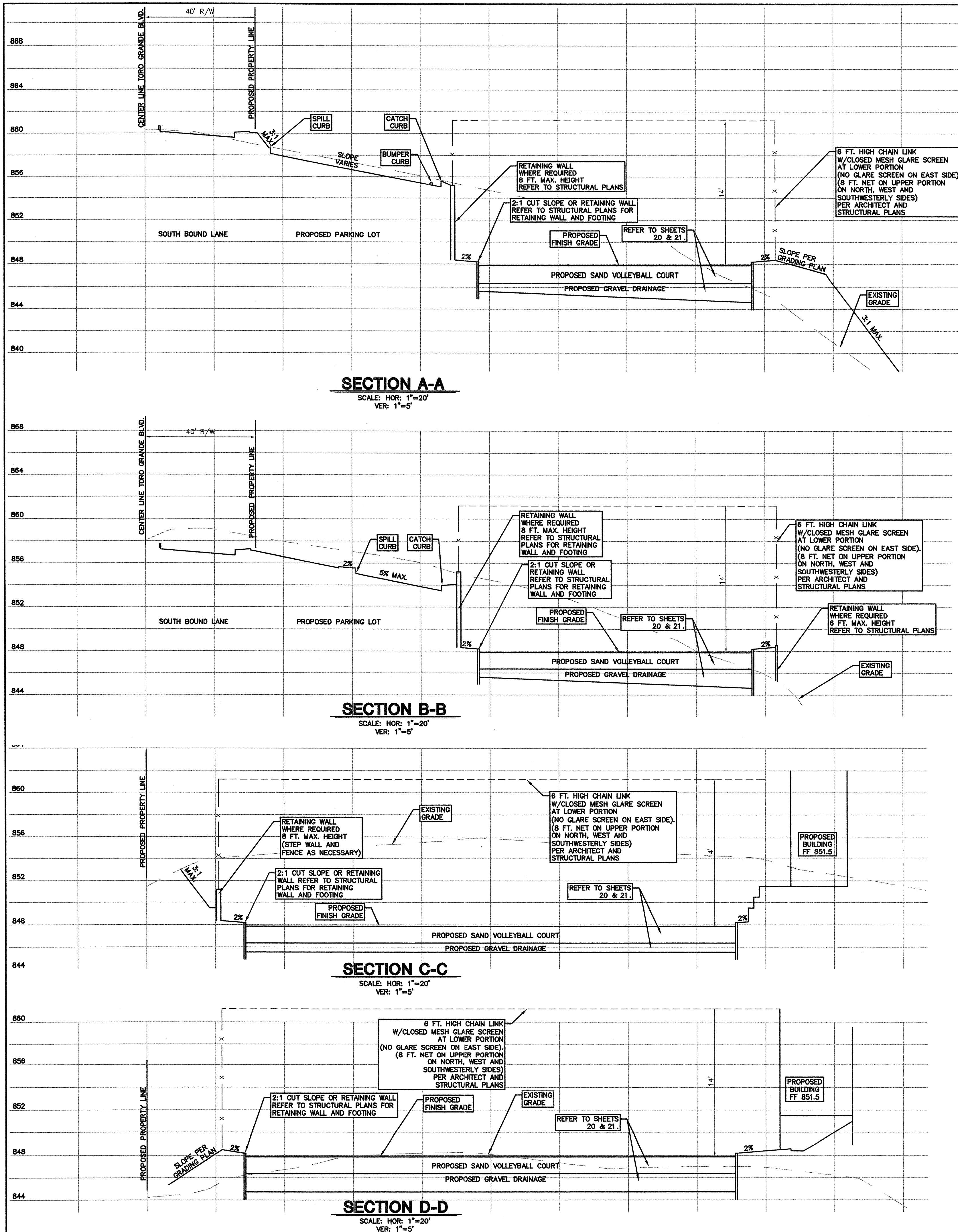
DRAWN BY: JSM
CHECKED BY: LSJ
DATE: 10/09/13

REVISIONS:

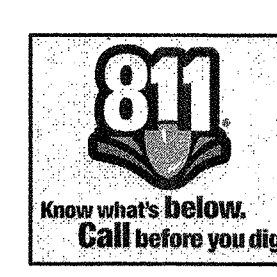
BUILDING ELEVATIONS

23
of 25

SD-13-00005



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PLANNING DEPT
OCT 31 2013
CITY OF DALLAS

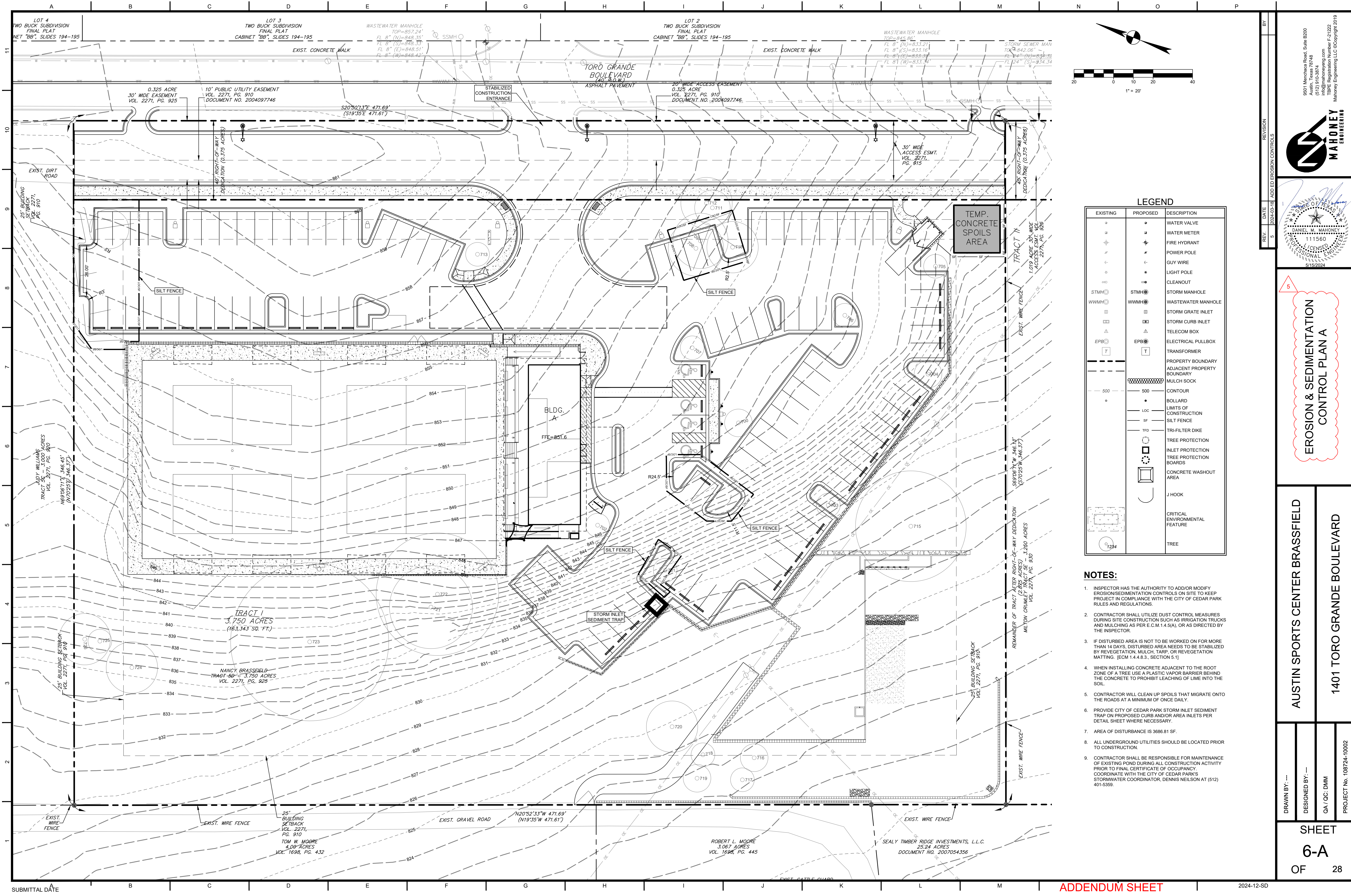


THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

DRAWN BY: GLE, PSD		PROJECT NO.: 108724-10002
DESIGNED BY: GLE, DMM		
REVIEWED BY: DMM, JRN		
AUSTIN SPORTS CENTER BRASSFIELD 1401 TORO GRANDE BOULEVARD		SHEET 24 OF 25
AUSTIN SPORTS CENTER		
BURY™ 221 West South Street, Suite 600 Austin, Texas 78701 Fax: (512) 328-0255 Toll Free: 1-800-368-3636 Bury, Inc. Copyright © 2013		

Site Plan Revision: 2024-12-SD





LEGEND		
EXISTING	PROPOSED	DESCRIPTION
		WATER VALVE
		WATER METER
		FIRE HYDRANT
		POWER POLE
		GUY WIRE
		LIGHT POLE
		CLEANOUT
		STORM MANHOLE
		WASTEWATER MANHOLE
		STORM GRATE INLET
		STORM CURB INLET
		TELECOM BOX
		ELECTRICAL PULLBOX
		TRANSFORMER
		PROPERTY BOUNDARY
		ADJACENT PROPERTY BOUNDARY
		MULCH SOCK
		CONTOUR
		BOLLARD
		LIMITS OF CONSTRUCTION
		SILT FENCE
		TRI-FILTER DIKE
		TREE PROTECTION
		INLET PROTECTION
		TREE PROTECTION BOARDS
		CONCRETE WASHOUT AREA
		J HOOK
		CRITICAL ENVIRONMENTAL FEATURE
		TREE

- NOTES:**
- INSPECTOR HAS THE AUTHORITY TO ADD/REMOVE/ MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF CEDAR PARK RULES AND REGULATIONS.
 - CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRIGATION TRUCKS AND MULCHING AS PER E.C.M.1.4.5(A), OR AS DIRECTED BY THE INSPECTOR.
 - IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP, OR REVEGETATION MATTING. [ECM 1.4.4.8.3, SECTION 5.1]
 - WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.
 - CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS AT A MINIMUM OF ONCE DAILY.
 - PROVIDE CITY OF CEDAR PARK STORM INLET SEDIMENT TRAP ON PROPOSED CURB AND/OR AREA INLETS PER DETAIL SHEET WHERE NECESSARY.
 - AREA OF DISTURBANCE IS 3686.81 SF.
 - ALL UNDERGROUND UTILITIES SHOULD BE LOCATED PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING POND DURING ALL CONSTRUCTION ACTIVITY PRIOR TO FINAL CERTIFICATE OF OCCUPANCY. COORDINATE WITH THE CITY OF CEDAR PARK'S STORMWATER COORDINATOR, DENNIS NELSON AT (512) 401-5359.

BY

DATE

REV

5

9/24/2024

ADD EROSION CONTROLS

111560

11/15/2024

5/15/2024

5

EROSION & SEDIMENTATION CONTROL PLAN A

AUSTIN SPORTS CENTER BRASSFIELD

1401 TORO GRANDE BOULEVARD

DRAWN BY: ---

DESIGNED BY: ---

QA / QC: DMM

PROJECT No. 108724-10002

SHEET

6-A

OF 28

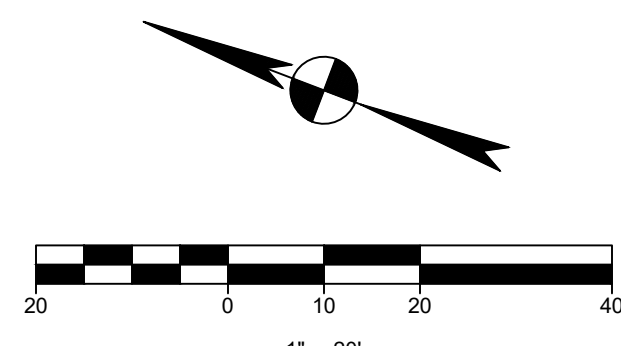
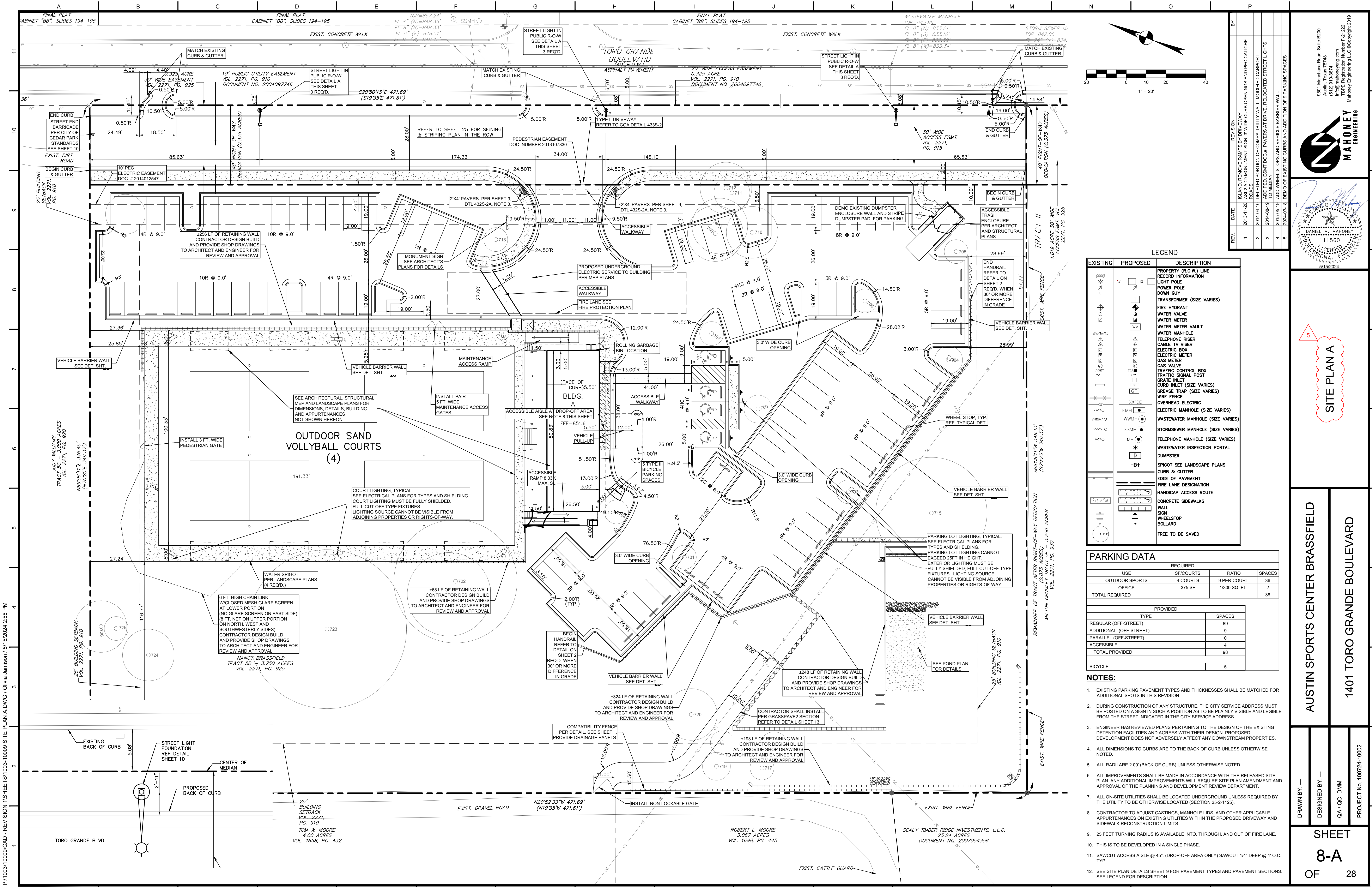
9501 Manchaca Road, Suite 8200
Austin, Texas 78748
(512) 910-3874
info@mahoneyengineering.com
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EROSION & SEDIMENTATION CONTROL PLAN A

AUSTIN SPORTS CENTER BRASSFIELD
1401 TORO GRANDE BOULEVARD

SHEET
6-A
OF 28



LEGEND		
EXISTING	PROPOSED	DESCRIPTION
		PROPERTY (R.O.W.) LINE
		RECORD INFORMATION
		LIGHT POLE
		POWER POLE
		DOWN GUY
		TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT
		WATER MANHOLE
		CABLE TV RISER
		ELECTRIC BOX
		ELECTRIC METER
		GAS METER
		GAS VALVE
		TRAFFIC CONTROL BOX
		TRAFFIC SIGNAL POST
		GRATE INLET (SIZE VARIES)
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
		OVERHEAD ELECTRIC
		ELECTRIC MANHOLE (SIZE VARIES)
		WASTEWATER MANHOLE (SIZE VARIES)
		STORMSEWER MANHOLE (SIZE VARIES)
		TELEPHONE MANHOLE (SIZE VARIES)
		WASTEWATER INSPECTION PORTAL
		DUMPSTER
		SPIGOT SEE LANDSCAPE PLANS
		CURB & GUTTER
		EDGE OF PAVEMENT
		FIRE LANE DESIGNATION
		HANDICAP ACCESS ROUTE
		CONCRETE SIDEWALKS
		WALL SIGN
		WHEELSTOP
		BOLLARD
		TREE TO BE SAVED

PARKING DATA			
		REQUIRED	
USE	SF/COURTS	RATIO	SPACES
OUTDOOR SPORTS	4 COURTS	9 PER COURT	36
OFFICE	375 SF	1/300 SQ. FT.	2
TOTAL REQUIRED			38
PROVIDED			
TYPE	SPACES		
REGULAR (OFF-STREET)	89		
ADDITIONAL (OFF-STREET)	9		
PARALLEL (OFF-STREET)	0		
ACCESSIBLE	4		
TOTAL PROVIDED	98		
BICYCLE	5		

- NOTES:**
- EXISTING PARKING PAVEMENT TYPES AND THICKNESSES SHALL BE MATCHED FOR ADDITIONAL SPOTS IN THIS REVISION.
 - DURING CONSTRUCTION OF ANY STRUCTURE, THE CITY SERVICE ADDRESS MUST BE POSTED ON A SIGN IN SUCH A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET INDICATED IN THE CITY SERVICE ADDRESS.
 - ENGINEER HAS REVIEWED PLANS PERTAINING TO THE DESIGN OF THE EXISTING DETENTION FACILITIES AND AGREES WITH THEIR DESIGN. PROPOSED DEVELOPMENT DOES NOT ADVERSELY AFFECT ANY DOWNSTREAM PROPERTIES.
 - ALL DIMENSIONS TO CURBS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
 - ALL RADII ARE 2.00' (BACK OF CURB) UNLESS OTHERWISE NOTED.
 - ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE RELEASED SITE PLAN. ANY ADDITIONAL IMPROVEMENTS WILL REQUIRE SITE PLAN AMENDMENT AND APPROVAL OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.
 - ALL ON-SITE UTILITIES SHALL BE LOCATED UNDERGROUND UNLESS REQUIRED BY THE UTILITY TO BE OTHERWISE LOCATED (SECTION 25-2-1125).
 - CONTRACTOR TO ADJUST CASTINGS, MANHOLE LIDS, AND OTHER APPLICABLE APPURTENANCES ON EXISTING UTILITIES WITHIN THE PROPOSED DRIVEWAY AND SIDEWALK RECONSTRUCTION LIMITS.
 - 25 FEET TURNING RADIUS IS AVAILABLE INTO, THROUGH, AND OUT OF FIRE LANE.
 - THIS IS TO BE DEVELOPED IN A SINGLE PHASE.
 - SAWCUT ACCESS AISLE @ 45° (DROP-OFF AREA ONLY) SAWCUT 1/4" DEEP @ 1" O.C. TYP.
 - SEE SITE PLAN DETAILS SHEET 9 FOR PAVEMENT TYPES AND PAVEMENT SECTIONS. SEE LEGEND FOR DESCRIPTION.

REV	DATE	BY	REVISION
1	2013-11-26	ISLAND	REMOVE RAMP BY DRIVEWAY
2	2014-04-10	AS/2	ADD MONUMENT SIGN, 3' WIDE CURB OPENINGS AND PEC CALICHE
3	2014-08-19	DELETED	PORTION OF COMPATIBILITY WALL, MODIFIED CARPORT
4	2015-05-19	ADD	PEC ESMT DOCK, PAVERS AT DRIVE, RELOCATED STREET LIGHTS
5	2024-05-18	ADD	WHEEL STOPS AND VEHICLE BARRIER WALL

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(512) 910-3874
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5/15/2024

SITE PLAN A

AUSTIN SPORTS CENTER BRASSFIELD

1401 TORO GRANDE BOULEVARD

DRAWN BY: ---
DESIGNED BY: ---
QA / QC: DMM
PROJECT NO. 108724-10002

SHEET 8-A

OF 28

