



Electronically Filed in TPUC Docket  
Room on March 28, 2024 at 6:16 a.m.

Site Engineering Consultants  
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Murfreesboro, TN 37129  
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March 22, 2024

**TN Public Utility Commission**

**24-00016**

Chairman Herb Hilliard  
502 Deaderick Street  
4th Floor  
Nashville, TN 37243  
(800) 342-8359  
615-741-2904

RE: Letter of Determination for CCN Requirement  
College Grove Athletic Facility TF  
8445 Horton Hwy  
Williamson County, Tennessee  
Tax Map 141, 43.0 and p/o 44.08

To Whom it may concern:

I am writing to request a letter of determination for whether a CCN is required for the following project:

The proposed project site is located at 8445 Horton Highway in Williamson County and contains 117 acres. The site is also identified as Tax Map 141, Parcels 43 and 43.08 by Williamson County Register of Deeds. The proposed project will include a 11,800 gallons per day wastewater treatment system to be privately owned by Joyfull Jackrabbits LLC. The wastewater treatment system will serve a proposed College Grove Athletic Facility (tennis, baseball, soccer, pickle ball, etc). There will be practices, tournaments, family gatherings, etc weekly and weekends at the proposed site.

Proposed facilities and accommodations include indoor and outdoor training for tennis, soccer, baseball, and pickle ball. No kitchens will be onsite, only restrooms for the various buildings along with pavilions. As proposed, all facilities will to served by the attached State Operating Permit (SOP 24043) along with the TDEC letter from Brad Harris that states no bond is required since it's a single private entity. Fees will never be charged with the wastewater system. Joyfull Jackrabbits LLC is the owner of the property (per attached deed) and the proposed wastewater system. As required for operation and maintenance of the wastewater system, the property owner shall maintain a contract with a qualified wastewater operator certified by TDEC.

A Pre-Project Discussion (PPD) meeting has been held with TDEC staff regarding this project. A pre-application meeting has been held with the Williamson County Planning Department which will require a determination from TPUC that a CCN is not required for the construction and operation of the wastewater system prior to submittal of the proposed College Grove Athletic Facility site plan review.

I would greatly appreciate your assistance in providing Williamson County Planning Department a letter of determination. If you have any questions or if I may be of further assistance, I can be contacted by phone at 615-890-7901. My email address is jreed@sec-civil.com. Our fax number is 615-895-2567.

Sincerely,



Jamie Reed P.E., R.L.S.  
President / CEO  
SEC, Inc.



State of Tennessee  
**DEPARTMENT OF ENVIRONMENT AND CONSERVATION**  
**DIVISION OF WATER RESOURCES**  
William R. Snodgrass - Tennessee Tower  
312 Rosa L. Parks Avenue, 11th Floor  
Nashville, Tennessee 37243-1102

March 19, 2024

Mr. Dan Martin  
Owner  
Arrow Utility Resources  
e-copy: danmartin2468@gmail.com  
PO BOX 233  
WATERTOWN, TN 37184

Subject: **Permit No. SOP-23043**  
**Joyful Jackrabbits LLC**  
**College Grove, Williamson County, Tennessee**

Dear Mr. Martin:

The Division of Water Resources (the Division) is pleased to agree with your written request dated February 16, 2024, for a reduction in the financial security the College Grove Athletic Facility provides the Tennessee Department of Environment and Conservation pursuant to T.C.A. 69-3-122. For the reasons you detail in your request, the Division is pleased to reduce the security amount to \$0.00. TDEC's Division of Financial Responsibility will be contacting you regarding the steps necessary to replace the form of security for this reduced amount. In summary, the bases cited in your letter for the reduced amount include the following factors:

- The facility is privately owned and will serve as an athletic facility.
- No long term leases or any residential facilities are part of the project
- The owner has stated the facility can be closed in case of malfunction until such time as the system could be rehabilitated

If you have questions, please contact the Nashville EFO at 1-888-891-TDEC; or, at this office, please contact Mr. Bryan Pope at (931) 224-3098 or by E-mail at [Bryan.Pope@tn.gov](mailto:Bryan.Pope@tn.gov).

Sincerely,

Brad Harris, P.E.  
Manager, Land-Based Systems

cc: Permit File  
Nashville Environmental Field Office (EFO)



STATE OF TENNESSEE  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF WATER RESOURCES

William R. Snodgrass - Tennessee Tower  
312 Rosa L. Parks Avenue, 11th Floor  
Nashville, Tennessee 37243-1102

March 1, 2024

Mr. Kenny Brody  
Manager  
Joyfull Jackrabbits, LLC  
e-copy: saulbrody@gmail.com  
540 W. Madison St., Suite 2500  
Chicago, IL 60661

Subject: **Draft of State Operating Permit No. SOP-23043**  
**Joyfull Jackrabbits LLC**  
**College Grove Athletic Facility TF**  
**College Grove, Williamson County, Tennessee**

Dear Mr. Brody:

Enclosed please find one copy of the draft state operating permit, which the Division of Water Resources (the division) proposes to issue. The issuance of this permit is contingent upon your meeting all of the requirements of the Tennessee Water Quality Control Act and the rules and regulations of the Tennessee Water Quality, Oil and Gas Board.

TDEC's approval of this land application waste treatment system shall not be construed as creating a presumption of correct operation nor as warranting by the commissioner that the approved facilities will reach the designated goals. T.C.A. § 69-3-108(i). Similarly, TDEC's issuance of a state operating permit in no way guarantees that this land application system will function properly. Notwithstanding these approvals, owners and operators are required to ensure that operation of this system does not result in pollution of waters of the state, including groundwater.

If you disagree with the provisions and requirements contained in the draft permit, you have thirty (30) days from the date of this correspondence to notify the division of your objections. If your objections cannot be resolved, you may appeal the issuance of this permit. This appeal should be filed in accordance with Section 69-3-110, Tennessee Code Annotated.

If you have questions, please contact the Nashville EFO at 1-888-891-TDEC; or, at this office, please contact Mr. Bryan Pope at (931) 224-3098 or by E-mail at [Bryan.Pope@tn.gov](mailto:Bryan.Pope@tn.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Brad Harris", with a stylized flourish at the end.

Brad Harris, P.E.  
Manager, Land-Based Systems

Enclosure

cc: Permit File  
Nashville Environmental Field Office (EFO)



STATE OF TENNESSEE  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF WATER RESOURCES  
William R. Snodgrass - Tennessee Tower  
312 Rosa L. Parks Avenue, 11th Floor  
Nashville, Tennessee 37243-1102

**Permit No. SOP-23043**

**PERMIT**

**For the operation of Wastewater Treatment Facilities**

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In accordance with the provision of Tennessee Code Annotated section 69-3-108 and Regulations promulgated pursuant thereto:

**PERMISSION IS HEREBY GRANTED TO**

Joyfull Jackrabbits LLC  
College Grove Athletic Facility TF  
College Grove, Williamson County, Tennessee

**FOR THE OPERATION OF**

STEP / STEG fencing and disinfection drip dispersal system located at latitude and longitude in Williamson County, Tennessee to serve approximately 1180 individuals by the College Grove Athletic Facility TF. The design capacity of the system is .0118 MGD and will be dispersed on approximately 2.7 acres of suitable soils.

This permit is issued as a result of the application filed on January 5, 2024, in the office of the Tennessee Division of Water Resources. This permit is contingent on the submission and department approval of construction plans, specifications and other data in accordance with rules of the department. Updated plans and specifications must be approved before any further construction activity.

**This permit shall become effective on:**

**This permit shall expire on:**

**Issuance date:**

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for Jennifer Dodd  
Director

A. GENERAL REQUIREMENTS

The treatment system shall be monitored by the permittee as specified below:

<u>Parameter</u>	<u>Sample Type</u>	<u>Daily Maximum</u>	<u>Monthly Average</u>	<u>Measurement Frequency</u>
Flow *	Totalizer			Daily
BOD <sub>5</sub>	Grab	45 mg/l	N/A	Once/Year
Ammonia as N	Grab	Report	N/A	Once /Quarter

No E. Coli monitoring if fields are fenced

\* Report average daily flow for each calendar month.

Sampling requirements in the table above apply to effluent being discharged to the drip irrigation plots.

This permit allows the operation of a wastewater drip irrigation, treatment, and storage system with disposal of treated wastewater through approved drip dispersal areas. There shall be no discharge of wastewater to any surface waters or to any location where it is likely to enter surface waters. There shall be no discharge of wastewater to any open throat sinkhole. In addition, the drip irrigation system shall be operated in a manner preventing the creation of a health hazard or a nuisance.

TDEC's approval of this land application waste treatment system shall not be construed as creating a presumption of correct operation nor as warranting by the commissioner that the approved facilities will reach the designated goals. T.C.A. § 69-3-108(i). Similarly, TDEC's issuance of a state operating permit in no way guarantees that this land application system will function properly. Notwithstanding these approvals, owners and operators are required to ensure that operation of this system does not result in pollution of waters of the state, including groundwater.

The land application component shall be operated and maintained to ensure complete hydraulic infiltration within the soil profile, transmission of the effluent away from the point of application, and full utilization of the soil profile as a portion of the treatment system.

Instances of surface saturation, ponding or pooling within the land application area as a result of system operation are prohibited. Instances of surface saturation, ponding or pooling shall be promptly investigated and noted on the Monthly Operations Report. The report shall include details regarding location(s), determined cause(s), the actions taken to eliminate the issue, and the date the corrective actions were made. Any instances of surface saturation, ponding or pooling not associated with a major precipitation event not corrected within three days of

## 2. Test Procedures

Unless otherwise noted in the permit, all pollutant parameters shall be determined according to methods prescribed in Title 40, CFR, Part 136.

### C. DEFINITIONS

The "daily maximum concentration" is a limitation on the average concentration, in milligrams per liter, of the discharge during any calendar day.

The "*monthly average concentration*", other than for *E. coli* bacteria, is the arithmetic mean of all the composite or grab samples collected in a one-calendar month period.

A "grab sample" is a single influent or effluent sample collected at a particular time.

For the purpose of this permit, "*continuous monitoring*" means collection of samples using a probe and a recorder with at least one data point per dosing cycle.

A "quarter" is defined as any one of the following three-month periods: January 1 through March 31, April 1 through June 30, July 1 through September 30, and/or October 1 through December 31.

"Wastewater" for the purpose of this permit means "sewage" as defined in TCA 69-3-103

### D. REPORTING

#### 1. Monitoring Results

Monitoring results shall be recorded consistent with the general requirements imposed in Part A above OR in accordance with the operating and maintenance inspection schedule in the permit administrative file record and submitted quarterly.

Submittals shall be postmarked no later than 15 days after the completion of the reporting period. A copy should be retained for the permittee's files. Monitoring results shall be reported in a format approved by the division. Operation reports and any communication regarding compliance with the conditions of this permit must be sent to:

Division of Water Resources  
Nashville Environmental Field Office  
711 R.S. Gass Boulevard  
Nashville, TN 37216

Sampling results may be submitted electronically to: [DWRWW.Report@tn.gov](mailto:DWRWW.Report@tn.gov).

The first operation report is due on the 15<sup>th</sup> of the month following the quarter containing the permit effective date. Until the construction of the treatment system is complete and the



discovery shall be reported to the local Environmental Field Office at that time for investigation. Surface saturation, ponding or pooling resulting in the discharge of treated wastewater into Waters of the State or to locations where it is likely to move to Waters of the State shall be immediately reported to the local Environmental Field Office, unless the discharge is separately authorized by a NPDES permit."

All drip lines shall be buried and maintained 6 to 10 inches below the ground surface.

The site shall be inspected by the certified operator or his/her designee, at a minimum, once per fourteen days (default) OR in accordance with an operating and maintenance inspection schedule in the permit administrative file record. The default inspection frequency will apply if an operating and maintenance inspection schedule is not submitted to be a part of the permit administrative file record. The operating and maintenance inspection schedule shall at a minimum evaluate the following via onsite visits or telemetry monitoring or a combination of the two:

- the condition of the treatment facility security controls (doors, fencing, gates, etc.),
- the condition of the drip area security controls (doors, fencing, gates, etc.),
- the condition of the site signage,
- the operational status of the mechanical parts of the treatment system (pumps, filters, telemetry equipment, etc.)
- the condition of the UV bulbs (if applicable)
- the condition of the land application area including the location of any ponding
- the name of the inspector
- the description of any corrective actions

Submission of the schedule, or revisions to the schedule, may be submitted to the division electronically. The schedule shall be submitted on or before the effective date of the permit. The permittee is responsible for maintaining evidence that the schedule, or revisions, have been submitted to the division.

## **B. MONITORING PROCEDURES**

### **1. Representative Sampling**

Samples and measurements taken in compliance with the monitoring requirements specified above shall be representative of the volume and nature of the monitored discharge, and shall be taken at the following location(s):

Effluent to drip irrigation plots.

treatment system is placed into operation, operational reports shall report "monitoring not required".

## **2. Additional Monitoring by Permittee**

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified in Rule 0400-40-05-.07(2)(h)2, the results of such monitoring shall be included in the calculation and reporting of the values required in the Quarterly Operation Report. Such increased frequency shall also be indicated.

## **3. Falsifying Reports**

Knowingly making any false statement on any report required by this permit may result in the imposition of criminal penalties as provided for in Section 69-3-115 of the Tennessee Water Quality Control Act.

## **4. Signatory Requirement**

All reports or information submitted to the commissioner shall be signed and certified by the persons identified in Rules 0400-40-05-.05(6)(a-c).

# **PART II**

## **A. GENERAL PROVISIONS**

### **1. Duty to Reapply**

The permittee is not authorized to discharge after the expiration date of this permit. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information and forms as are required to the Director of Water Resources (the "Director") no later than 180 days prior to the expiration date.

### **2. Right of Entry**

The permittee shall allow the Director, or authorized representatives, upon the notification of permittee and presentation of credentials:

a. To enter upon the permittee's premises where an effluent source is located or where records are required to be kept under the terms and conditions of this permit, and at reasonable times to copy these records;

b. To inspect at reasonable times any monitoring equipment or method or any collection, treatment, pollution management, or discharge facilities required under this permit; and

c. To sample at reasonable times any discharge of pollutants.

3. Availability of Reports

All reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Division of Water Resources.

4. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems (and related appurtenances) for collection and treatment which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory and process controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. Backup continuous pH and flow monitoring equipment are not required.

The monitoring frequency stated in this permit shall not be construed as specifying a minimum level of operator attention to the facility. It is anticipated that visits to the treatment facility by the operator will occur at intervals frequent enough to assure proper operation and maintenance, but in no case less than one visit every fourteen days OR in accordance with an operating and maintenance inspection schedule in the permit administrative file record. If monitoring reports, division's inspection reports, or other information indicates a problem with the facility, the permittee may be subject to enforcement action and/or the permit may be modified to include increased parameter monitoring, increased monitoring frequency or other requirements as deemed necessary by the division to correct the problem. The permittee shall ensure that the certified operator is in charge of the facility and observes the operation of the system frequently enough to ensure its proper operation and maintenance regardless of the monitoring frequency stated in the permit

Dilution water shall not be added to comply with effluent requirements.

5. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

6. Severability

The provisions of this permit are severable. If any provision of this permit due to any circumstance, is held invalid, then the application of such provision to other circumstances and to the remainder of this permit shall not be affected thereby.

**7. Other Information**

If the permittee becomes aware that he failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, then he shall promptly submit such facts or information.

**B. CHANGES AFFECTING THE PERMIT**

**1. Planned Changes**

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility.

**2. Permit Modification, Revocation, or Termination**

a. This permit may be modified, revoked and reissued, or terminated for cause as described in Section 69-3-108 (h) of the Tennessee Water Quality Control Act as amended.

b. The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

**3. Change of Ownership**

This permit may be transferred to another person by the permittee if:

a. The permittee notifies the Director of the proposed transfer at least 30 days in advance of the proposed transfer date;

b. The notice includes a written agreement between the existing and new permittees containing a specified date for transfer of permit responsibility, coverage, and liability between them; and

c. The Director, within 30 days, does not notify the current permittee and the new permittee of his intent to modify, revoke or reissue, or terminate the permit and to require that a new application be filed rather than agreeing to the transfer of the permit.

**4. Change of Mailing Address**

The permittee shall promptly provide to the Director written notice of any change of mailing address. In the absence of such notice the original address of the permittee will be assumed to be correct.

**C. NONCOMPLIANCE**

1. Effect of Noncompliance

Any permit noncompliance constitutes a violation of applicable State laws and is grounds for enforcement action, permit termination, permit modification, or denial of permit reissuance.

2. Reporting of Noncompliance

a. 24-Hour Reporting

In the case of any noncompliance which could cause a threat to public drinking supplies, or any other discharge which could constitute a threat to human health or the environment, the required notice of non-compliance shall be provided to the appropriate Division environmental field office within 24 hours from the time the permittee becomes aware of the circumstances. (The environmental field office should be contacted for names and phone numbers of emergency response personnel.)

A written submission must be provided within five days of the time the permittee becomes aware of the circumstances unless this requirement is waived by the Director on a case-by-case basis. The permittee shall provide the Director with the following information:

- i. A description of the discharge and cause of noncompliance;
- ii. The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and
- iii. The steps being taken to reduce, eliminate, and prevent recurrence of the non complying discharge.

b. Scheduled Reporting

For instances of noncompliance which are not reported under subparagraph 2.a. above, the permittee shall report the noncompliance on the Quarterly Operation Report. The report shall contain all information concerning the steps taken, or planned, to reduce, eliminate, and prevent recurrence of the violation and the anticipated time the violation is expected to continue.

3. Overflow

a. "**Overflow**" means the discharge of wastewater from any portion of the collection, transmission, or treatment system other than through permitted outfalls.

b. Overflows are prohibited.

c. The permittee shall operate the collection system so as to avoid overflows.

d. No new or additional flows shall be added upstream of any point in the collection system, which experiences chronic overflows (greater than 5 events per year) or would otherwise



overload any portion of the system. Unless there is specific enforcement action to the contrary, the permittee is relieved of this requirement after: 1) an authorized representative of the Commissioner of the Department of Environment and Conservation has approved an engineering report and construction plans and specifications prepared in accordance with accepted engineering practices for correction of the problem; 2) the correction work is underway; and 3) the cumulative, peak-design, flows potentially added from new connections and line extensions upstream of any chronic overflow point are less than or proportional to the amount of inflow and infiltration removal documented upstream of that point. The inflow and infiltration reduction must be measured by the permittee using practices that are customary in the environmental engineering field and reported in an attachment to a Monthly Operating Report submitted to the local TDEC Environmental Field Office on a quarterly basis. The data measurement period shall be sufficient to account for seasonal rainfall patterns and seasonal groundwater table elevations.

e. In the event that more than 5 overflows have occurred from a single point in the collection system for reasons that may not warrant the self-imposed moratorium or completion of the actions identified in this paragraph, the permittee may request a meeting with the Division of Water Resources EFO staff to petition for a waiver based on mitigating evidence.

#### 4. Upset

a. "**Upset**" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

b. An upset shall constitute an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the permittee demonstrates, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- i. An upset occurred and that the permittee can identify the cause(s) of the upset;
- ii. The permitted facility was at the time being operated in a prudent and workman-like manner and in compliance with proper operation and maintenance procedures;
- iii. The permittee submitted information required under "Reporting of Noncompliance" within 24-hours of becoming aware of the upset (if this information is provided orally, a written submission must be provided within five days); and
- iv. The permittee complied with any remedial measures required under "Adverse Impact."

#### 5. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to the waters of Tennessee resulting from noncompliance with this permit, including such accelerated

or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#### 6. Bypass

- a. **"Bypass"** is the intentional diversion of wastewater away from any portion of a treatment facility.
- b. Bypasses are prohibited, unless:
  - i. The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
  - ii. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
  - iii. For anticipated bypass, the permittee submits prior notice, if possible at least ten days before the date of the bypass; or
  - iv. For unanticipated bypass, the permittee submits notice of an unanticipated bypass within 24 hours from the time that the permittee becomes aware of the bypass.
- c. A bypass that does not cause effluent limitations to be exceeded may be allowed only if the bypass is necessary for essential maintenance to assure efficient operation.
- d. "Severe property damage" when used to consider the allowance of a bypass means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

#### D. LIABILITIES

##### 1. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Notwithstanding this permit, the permittee shall remain liable for any damages sustained by the State of Tennessee, including but not limited to fish kills and losses of aquatic life and/or wildlife, as a result of the discharge of wastewater to any surface or subsurface waters. Additionally, notwithstanding this Permit, it shall be the responsibility of the permittee to conduct its wastewater treatment and/or discharge activities in a manner such that public or private nuisances or health hazards will not be created.

2. Liability Under State Law

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law.

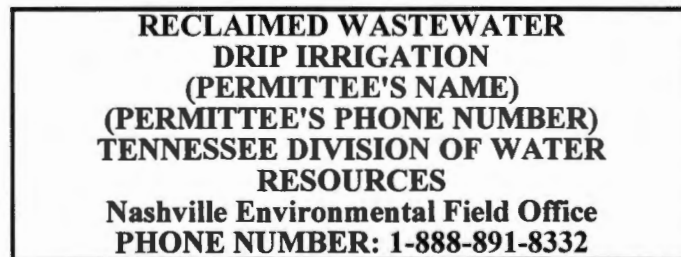
**PART III  
OTHER REQUIREMENTS**

**A. CERTIFIED OPERATOR**

The waste treatment facilities shall be operated under the supervision of a Biological Natural System certified wastewater treatment operator and collection system shall be operated under the supervision of a the grade I certified collection system operator in accordance with the Water Environmental Health Act of 1984.

**B. PLACEMENT OF SIGNS**

The permittee shall place a sign at the entrance to the land application area if fenced or all reasonsable approaches to the land application area. The sign should be clearly visible to the public. The minimum sign size should be two feet by two feet (2' x 2') with one inch (1") letters. The sign should be made of durable material



No later than sixty (60) days from the effective date of the permit, the permittee shall have the above sign(s) on display in the location specified. New facilities must have the signs installed upon commencing operation.

**C. ADDITION OF WASTE LOADS**

The permittee may not add wasteloads to the existing treatment system without the knowledge and approval of the division.

**D. SEPTIC (STEP) TANK OPERATION**

The proper operation of this treatment system depends, largely, on the efficient use of the septic tank. The solids that accumulate in the tank shall be removed at a frequency that is sufficient to insure that the treatment plant will comply with the discharge requirements of this permit.

#### **E. SEPTAGE MANAGEMENT PRACTICES**

The permittee must comply with the provisions of Rule 0400-48-01-.22. If the septage is transported to another POTW for disposal, the permittee shall note the amount of septage wasted in gallons and name of the facility the hauler intends to use for disposal of the septage on the monthly operation report. Sludge or any other material removed by any treatment works must be disposed of in a manner which prevents its entrance into or pollution of any surface or subsurface waters. Additionally, the disposal of such sludge or other material must be in compliance with the Tennessee Solid Waste Disposal Act, TCA 68-31-101 et seq. and Tennessee Hazardous Waste Management Act, TCA 68-46-101 et seq.

#### **F. OWNERSHIP OF THE TREATMENT FACILITIES**

a. The permittee shall own the treatment facilities (and the land upon which they are constructed) including the land to be utilized for wastewater dispersal. A perpetual easement (properly recorded) may be accepted in lieu of ownership. Evidence of ownership of the treatment facility land application site(s) and/or a copy of the perpetual easement(s) must be furnished to the division for approval prior to construction of the wastewater collection and dispersal system. Signed agreements stating the intent of the existing landowner to transfer ownership may be provided to support permit issuance. Evidence of such ownership or access rights must be provided to, and approved by, the Commissioner prior to commencement of operation.

b. Where the treatment facility serves private homes, condominiums, apartments, retirement homes, nursing homes, trailer parks, or any other place where the individuals being served have property ownership, rental agreements, or other agreements that would prevent their being displaced in the event of abandonment or noncompliance of the sewerage system, ownership of the treatment facilities must be by a municipality, a public utility, a wastewater authority, or a privately owned public utility (having a Certificate of Convenience and Necessity from the Tennessee Public Utility Commission) or another public agency.

Attachment 1



**RATIONALE**

**Joyfull Jackrabbits LLC**  
**STATE OPERATION PERMIT NO. SOP-23043**  
**College Grove, Williamson County, Tennessee**

**Permit Writer: Mr. Bryan Pope**

**FACILITY CONTACT INFORMATION:**

Mr. Dan Martin  
Owner  
Phone: ()  
danmartin2468@gmail.com  
8445 Horton Highway  
WATERTOWN, TN 37184

**Activity Description:** Treatment of domestic wastewater via a decentralized waste water system to support construction of Joyfull Jackrabbits TF.

**Facility location:** 34.80167 Latitude and -86.6716 Longitude

**Name of the nearest stream:** No discharge allowed.

**Treatment system:** STEP / STEG RMF Drip Dispersal with disinfected effluent to a fenced disposal field.

**Permit period:** This permit will be issued for a five year period effective from the issuance date on the title page.

**Terms & Conditions:** BOD<sub>5</sub> is a standard measure of sewage strength. The 45 mg/L daily maximum limit is the required treatment standard for domestic waste water in Tennessee. Ammonia and BOD<sub>5</sub> reporting serve to demonstrate the treatment system is meeting minimum treatment standards. Land application, versus stream discharge, enables reduced monitoring frequency for these parameters. Narrative conditions for drip disposal and septage management are proposed in support of proper system operation to prevent runoff to streams and avoidance of nuisance conditions. E.coli limits apply when the disposal area is not fenced.

**Financial Security:** Privately-owned public utilities provide financial security to the Public Utility Commission to comply with TCA 69-3-122.

**Annual Maintenance Fee:** An annual maintenance fee for the permit will apply after permit issue and upon receipt of an invoice. The fee is currently \$350.00 for non-discharging facilities with influent flow less than 0.075 MGD.

**Items Requisite for Operation:**

This draft permit proposes terms and conditions for planning purposes and to seek public comment on the potential water quality impacts of the proposed activity. Actual operation of the sewerage system is contingent on the following items (items may occur in any order):

- Approval of sewerage system construction plans and specifications per TCA 69-3-108(i),
- Final construction inspection and submission of O & M manual per Rule 0400-40-02-.09,
- Utility ownership of sewerage system assets consistent with Rule 0400-40-16-.02(8). Sewerage system assets broadly consist of those units integral to the collection, treatment and disposal of both the solid and liquid component of sewage (i.e. septic tanks and pumps, collection lines, treatment system and drip irrigation area and related appurtenances), and
- Final issue of the permit.

<b>SPECIAL WARRANTY DEED</b>  File No. 2023-0080	STATE OF TENNESSEE COUNTY OF WILLIAMSON
	THE ACTUAL CONSIDERATION OR VALUE, WHICHEVER IS GREATER FOR THIS TRANSFER IS \$6,309,900.00.
	<i>Hillary Turner</i> Affiant
	Subscribed and sworn to before me on September <u>29</u> , 2023.
NOTARY PUBLIC My Commission Expires: <u>1/20/2025</u>	

THIS INSTRUMENT WAS PREPARED BY:  
 ASHWORTH LAW FIRM, PLLC  
 237 2<sup>nd</sup> Avenue South  
 Franklin, TN 37064



NAME/ADDRESS OF NEW OWNER:	SEND TAX BILLS TO:	MAP - PARCEL #:
Joyful Jackrabbits LLC a Tennessee limited liability company Attn: Kristin Turner 540 W. Madison Street, Suite 2500 Chicago, Illinois 60661	New Owner	141-043.00 P/O 141-044.08

**FOR AND IN CONSIDERATION** of Ten (\$10.00) Dollars, cash in hand paid by the hereinafter named Grantee, and other good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, **KIRKLAND ESTATES, GP, A TENNESSEE GENERAL PARTNERSHIP**, hereinafter called "**GRANTOR**," has bargained and sold, and by these presents does transfer and convey unto **JOYFUL JACKRABBITS LLC, A TENNESSEE LIMITED LIABILITY COMPANY**, hereinafter called "**GRANTEE**," its successors and assigns, certain tract(s) or parcel(s) of land in Williamson County, State of Tennessee, described on Exhibit A attached hereto and incorporated herein by reference.

The conveyance of the parcel(s) and tract(s) of land described in Exhibit A are subject to the following: (i) 2023 property taxes and assessments, and subsequent years taxes and assessments; (ii) Application for Greenbelt Assessment of record in Book 3154, page 796, said Register's Office; (iii) Right of Way Easement of record in Book 4342, page 81, said Register's Office; (iv) Water Line Utility Easement of record in Book 7333, page 103, said Register's Office; (v) Easement for the flow of the water of Big Harpeth River and the rights of the public therein; (vi) Rights of upper and lower riparian owners to the flow of the water of Big Harpeth River, free from diminution or pollution; (vii) Changes in the boundary of the subject property resulting from erosion or accretion caused by the flow of Big Harpeth River; (viii) Title to that portion of the land lying below the ordinary low water mark of Big Harpeth River; (ix) Utility Easement of record in Book 2619, page 303, said Register's Office; (x) All limitations and restrictions regarding the ingress/egress easement and the use of the Farm Road Railroad Crossing and the Field Road Railroad Crossing as referenced in Book 2619, Page 303, said Register's Office; (xi) Easement for the flow of the water of the unidentified creek and the rights of the public therein; (xii) Rights of upper and lower riparian owners to the flow of the water of the unidentified creek, free from diminution or pollution; and (xiii) All matters shown on the plat of survey by J. Mark Cantrell, Tenn. RLS No. 1859, with T-Square Engineering, dated July 27, 2023, last revised September 21, 2023, and designated as Project 23-0625. The current year's property taxes have been prorated and paid by Grantor. Rollback taxes have been collected by Grantor and shall be paid to the Williamson County Trustee's Office. Subsequent years' taxes are assumed by Grantee.

This is improved property known as 8445 Horton Highway, College Grove, Tennessee 37046 (Map 141, Parcel 043.00; Approximately 80.77 acres +/-) and unimproved property being a portion of 6446 Drumright Road, College Grove, Tennessee 37046 (Part of Map 141, Parcel 044.08; approximately 36.08 acres +/- lying east of the CSX railroad tracks and adjoining a portion of the westerly boundary line of the aforementioned property known as 8445 Horton Highway, College Grove, Tennessee 37046).

**TO HAVE AND TO HOLD** the said tracts or parcels of land, with the appurtenances, estate, title and interest thereto belonging to the said GRANTEE, its successors and assigns, forever, and GRANTOR does covenant with the said GRANTEE that it is lawfully seized and possessed of said land in fee simple, has a good right to convey it, and the same is unencumbered, unless otherwise herein set out; and GRANTOR does further covenant and bind itself, its successors and assigns, to warrant and forever defend the title to the said land to the said GRANTEE, its successors and assigns, against the lawful claims of all persons claiming by, through, or under said GRANTOR, but not further or otherwise.

Wherever used, the singular number shall include the plural, the plural the singular, and the use of any gender shall be applicable to all genders.

WITNESS my hand on the date set forth below.

**Grantor:**

**KIRKLAND ESTATES, GP**  
**a Tennessee general partnership**

By: James H. Childress  
Name: James H. Childress  
Title: Managing Partner

STATE OF TENNESSEE                    )  
COUNTY OF WILLIAMSON            )

Before me, the undersigned authority, a Notary Public of the State and County mentioned, personally appeared James H. Childress, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence), and who, upon oath, acknowledged himself to be the Managing Partner (or other officer authorized to execute the instrument) of Kirkland Estates, GP, the within named bargainer, a Tennessee general partnership, and that such Managing Partner, executed the foregoing instrument for the purpose therein contained, by signing the name of the general partnership as Managing Partner.

Witness my hand, at office, this 29 day of September, 2023.

My Commission expires: 1/20/2025

Notary Public Rebekah Jolley





### EXHIBIT A

A certain tract or parcel of land lying and being situated in the Twentieth (20<sup>th</sup>) Civil District of Williamson County, Tennessee, and being more particularly described as follows:

Beginning at a Wood Fence Post on the west Right of Way (R.O.W.) of Horton Hwy (US Highway 31-A); Said Wood Fence Post being the eastern most northeast corner of Tandie Moore Trust, as recorded in Deed Book 6125, Page 172, Register's Office for Williamson County, Tennessee (R.O.W.C.); thence, leaving said road with Moore Trust and a fence the following calls: N 67°58'35" W, a distance of 1238.57' to a Wood Fence Post; thence, leaving said fence and continuing with Moore the following calls: N 06°47'19" E, a distance of 543.11' to an Iron Pin Found (IPF); N 72°18'26" W a distance of 1299.04' to an IPF; N 73°21'35" W a distance of 92.76' to an IPF on the easterly R.O.W. of CSX railroad at the northwest corner of Tandie Moore Trust, as recorded in Deed Book 6125, Page 172, R.O.W.C.; thence, leaving Tandie Moore Trust and with a new Kirkland Estates, GP, severance line and the easterly R.O.W. of said railroad, the following calls: with a curve to the left, said curve having an arc length of 377.81', a radius of 3560.51', and a chord bearing and distance of N 08°55'12" E, 377.59' to a Point; with a compound curve to the left, said curve having an arc length of 697.50', a radius of 2457.83', and a chord bearing and distance of N 03°18'49" W, 695.16' to an IPS on the south boundary of Harpeth Grove Farms LLC, as recorded in Deed Book 6423, Page 872, R.O.W.C.; thence, leaving said railroad and said severance line and with Harpeth Grove Farms LLC, the following calls: S 89°51'49" E a distance of 1267.31' to an IPS at the southeast corner of Harpeth Grove Farms LLC; N 08°02'51" E, a distance of 538.32' to an Iron Pin Found (IPF); N 10°19'53" E, a distance of 101.43' to a Point in the Harpeth River; Said Point being the southwest corner of Scott and Rose Walter; thence, with the Harpeth River and Walter, S 70°57'36" E, a distance of 527.06' to a Point in the center of the Harpeth River; thence, with the center of the Harpeth River and continuing with Walter the following calls: S 50°12'22" E, a distance of 104.18' to a Point; S 15°54'17" E, a distance of 97.23' to a Point at the southeast corner of Walter and the southwest corner of TFS Property TN LLC, as recorded in Deed Book 8869, Page 398, R.O.W.C.; thence, with TFS Property TN LLC and continuing with the center of said River the following calls: S 27°45'21" E, a distance of 63.53' to a Point; S 09°01'03" W, a distance of 40.32' to a Point; S 11°51'27" E, a distance of 40.81' to a Point; S 36°36'20" E, a distance of 55.23' to a Point; S 31°52'12" E, a distance of 50.46' to a Point; S 52°29'30" E, a distance of 58.76' to a Point; S 64°59'43" E, a distance of 64.00' to a Point; S 84°01'18" E, a distance of 66.10' to a Point; S 64°35'58" E, passing the northwest corner of State of Tennessee, as recorded in Deed Book 893, Page 359, R.O.W.C., and continuing with the center of said river, a distance of 94.86' to a Point; S 53°10'22" E, a distance of 58.53' to a Point; S 36°32'03" E, a distance of 59.01' to a Point; S 09°38'14" E, a distance of 31.85' to a Point; S 09°20'51" W, a distance of 53.60' to a Point; S 20°16'02" W, a distance of 110.63' to a Point; S 11°55'41" W, a distance of 34.42' to a Point; S 13°50'45" E, a distance of 124.74' to a Point; S 19°35'28" E, a distance of 54.79' to a Point; S 28°21'58" E, a distance of 48.34' to a Point; S 16°54'51" E, a distance of 74.49' to a Point; S 05°49'08" E, a distance of 69.76' to a Point; S 19°21'19" E, a distance of 71.74' to a Point; S 20°33'09" W, a distance of 24.48' to a Point; S 05°34'14" E, a distance of 54.09' to a Point; S 72°25'32" E, a distance of 128.32' to a Point; S 35°59'08" E, a distance of 36.40' to a Point; S 53°39'35" E, a distance of 65.73' to a Point; S 68°35'36" E, a distance of 52.29' to a Point; S 87°14'11" E, a distance of 51.18' to a Point; S 72°29'44" E, a distance of 45.38' to a Point; S 58°40'54" E, a distance of 100.83' to a Point; S 52°02'16" E, a distance of 87.24' to a Point; S 57°33'10" E, a distance of 107.41' to an IPS on the west R.O.W. of Horton Hwy (US Highway 31-A); Said IPS being the southeast corner of State of Tennessee; thence, leaving State of Tennessee with the west R.O.W. of said Hwy the following calls: with a curve turning to the right with an arc length of 246.41', with a radius of 5680.00', with a chord bearing of S 24°33'13" W, with a chord length of 246.39' to an IPS; S 64°12'13" E, a distance of 17.00' to an IPS; with a curve turning to the right with an arc length of 619.31', with a radius of 5697.00', with a chord bearing of S 28°54'38" W, with a chord length of 619.01' to a Point; S 32°01'30" W, a distance of 649.78' to the Point of Beginning, containing 116.85 acres, more or less, as surveyed by T-Square Engineering, J. Mark Cantrell, TN PLS# 1859, dated July 27, 2023, last revised September 21, 2023, and designated as Project 23-0625.

Being the same property conveyed to Kirkland Estates, GP, a Tennessee general partnership, by deed from Allen L. Russell and Caroline Isbey Russell, Husband and Wife, of record in Book 9057, page 421, dated July 15, 2022, as corrected by Scrivener's Affidavit of record in Book 9076,



page 197, Register's Office for Williamson County, Tennessee.

Being part of the same property conveyed to Kirkland Estates, GP, a Tennessee general partnership, by deed from Earl Miller Culberson, an unmarried man, of record in Book 9232, page 70, dated April 12, 2023, said Register's Office.

Being the same property conveyed to Kirkland Estates, GP, a Tennessee general partnership, by quitclaim deed from Kirkland Estates, GP, A Tennessee general partnership, to combine and merge tax parcels of record in Book 9278, page 778, dated June 22, 2023, said Register's Office.

**BK: 9343 PG: 197-200**

**23028467**

4 PGS:AL-DEED	
953827	
<b>09/29/2023 - 02:45 PM</b>	
BATCH	953827
MORTGAGE TAX	0.00
TRANSFER TAX	23346.63
RECORDING FEE	20.00
DP FEE	2.00
REGISTER'S FEE	1.00
TOTAL AMOUNT	23369.63

STATE OF TENNESSEE, WILLIAMSON COUNTY

**SHERRY ANDERSON**

REGISTER OF DEEDS

**Rogers C. Anderson**  
Williamson County Mayor



## **WILLIAMSON COUNTY GOVERNMENT**

March 6, 2024

Mr. James F. Reed, III  
SEC, Inc.  
850 Middle Tennessee Boulevard  
Murfreesboro, TN 37129

RE: Sewer Request – 8445 Horton Hwy  
Tax Map 141  
Parcels 43, 44.08  
Owners : Joyful Jackrabbits LLC

Dear Mr. Reed:

This letter serves as notice that Williamson County does not provide public sanitary sewer service and has no plans in the foreseeable future to provide said service, including but not limited to the above referenced property.

If you have any questions or need additional information, feel free to contact me.

Sincerely,

Rogers C. Anderson, Mayor  
Williamson County

RCA/jla





**Tre Hargett**  
Secretary of State

**Division of Business Services**  
**Department of State**  
**State of Tennessee**  
312 Rosa L. Parks AVE, 6th FL  
Nashville, TN 37243-1102

### Filing Information

**Name:** Joyful Jackrabbits LLC

#### General Information

<b>SOS Control #</b>	001431901	<b>Formation Locale:</b>	TENNESSEE
<b>Filing Type:</b>	Limited Liability Company - Domestic	<b>Date Formed:</b>	05/31/2023
	05/31/2023 3:02 PM	<b>Fiscal Year Close</b>	12
<b>Status:</b>	Active	<b>Member Count:</b>	1
<b>Duration Term:</b>	Perpetual		
<b>Managed By:</b>	Manager Managed		

#### Registered Agent Address

COGENCY GLOBAL INC.  
STE B  
992 DAVIDSON DR  
NASHVILLE, TN 37205-1051

#### Principal Address

C/O CATHERINE MCGIVNEY  
SUITE 2800  
111 E. WACKER  
CHICAGO, IL 60601

The following document(s) was/were filed in this office on the date(s) indicated below:

<u>Date Filed</u>	<u>Filing Description</u>	<u>Image #</u>
05/31/2023	Initial Filing	B1396-7302

<u>Active Assumed Names (if any)</u>	<u>Date</u>	<u>Expires</u>
--------------------------------------	-------------	----------------



12/20/2023

Jamie Reed P.E., R.L.S.  
CEO / President  
SEC. Inc.  
850 Middle Tenn Blvd  
Murfreesboro, TN 37129

RE: College Grove Athletic Facility – 8445 Horton Hwy  
WWTP Operations & Maintenance

Dear Mr. Reed,

Thank you for the opportunity to get on board with the College Grove Athletic Facility project on Horton Highway, TN. Arrow Utility Resources, LLC is pleased to be providing operations and maintenance services for the wastewater treatment and collection system that is being constructed onsite. All certifications pertaining to this are current and will be provided to you. We look forward to working with you on this.

Sincerely,

Dan Martin  
Owner  
Arrow Utility Resources, LLC  
P.O. Box 233  
Watertown, TN 37184

# College Grove Athletic Facility TF

8445 Horton Hwy

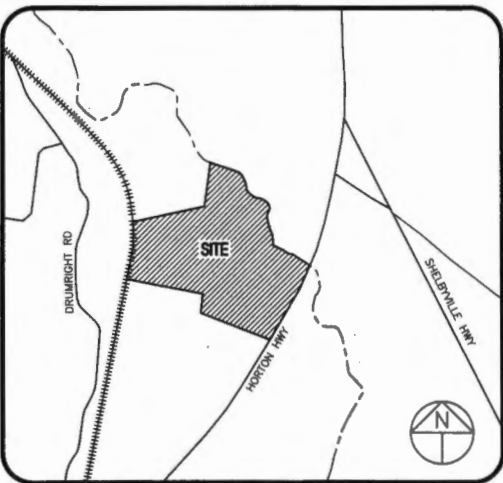
## STEP System Design Wastewater Site Plan

Williamson County, Tennessee

SOP No. \_\_\_\_\_  
Construction Drawings

### Drawing Index

Sheet No.	Title
C0.0	Cover Sheet
C0.1	Master Site Plan
C1.0-C1.1	Site Plan
C2.0	Grading & Drainage Plan
C3.0	Cross Sections
C4.0	Master Plan
C5.0	Soils Map
C6.0	Notes & Details
C6.1-C6.8	Details



Site Location Map  
Not To Scale

Watershed: West Harpeth River

### Owner/Developer:

Joyful Jacksonville, LLC  
540 W. Madison St. Suite 2000  
Chicago, IL 60601

### Floodplain Note:

A Portion of this site lies within a 100 Year Flood Hazard Area  
per F.E.M.A. Map No. 47167C0395F dated Sept. 25, 2005.

### Land Data:

116.85 Ac.  
Zoned: RD-1 (Rural Development-1)

### Deed Reference:

The property shown hereon is Tax Map 141, Parcels 43.00 and 43.08,  
in Williamson County, as recorded in R.B. 6043, Pg. 197-200.

### S.T.E.P. System Data:

Wastewater Lots: 8.875 Acres  
Design Flow = 1180 People x 10 gal/person = 11,800 GPD  
Required Land Application Area = 1.35a Ac.  
Provided Land Application Area = 1.35a Ac.  
Required Reserve Area = 1.35a Ac.  
Provided Reserve Area = 1.35a Ac.

### Contacts:

Williamson County Electric Membership Corp.  
2185 Edward Cud Lane  
Franklin, TN 37067  
Phone: (615) 784-3851  
Contact: Jacob Cain

Engineer/Surveyor:  
Site Engineering Consultants, Inc.  
650 Middle Tennessee Blvd.  
Memphis, TN 37129  
Phone: (915) 890-7901  
Contact: Jamie Reed

County Engineering:  
Williamson County Engineering Dept.  
Suite 400  
1320 West Main St.  
Franklin, TN 37064  
Phone: (615) 780-5808  
Contact: Floyd Hallin

Molokanville College Grove Utility District  
2002 Johnson Industrial Blvd.  
Molokanville, TN 37135  
Phone: (615) 776-2511  
Contact: Mike Polston

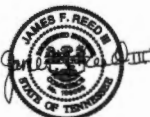
Tennessee Wastewater Systems, Inc.:  
649 Jackson Pkwy  
Beyers, TN 37107  
Contact: Matt Nicks  
Phone: (615) 898-0554

**SEC, Inc.** SITE ENGINEERING CONSULTANTS  
ENGINEERING - SURVEYING - LAND PLANNING  
LANDSCAPE ARCHITECTURE

830 MIDDLE TENNESSEE BOULEVARD MEMPHIS, TENNESSEE 37129  
PHONE: (615) 890-7901 E-MAIL: JREED@SEC-CIVIL.COM FAX: (615) 895-2367

NO PORTION OF THIS DRAWING MAY BE REPRODUCED WITHOUT THE EXPRESSED WRITTEN CONSENT OF S.E.C. INC.  
COPYRIGHT SEC, INC. 2024

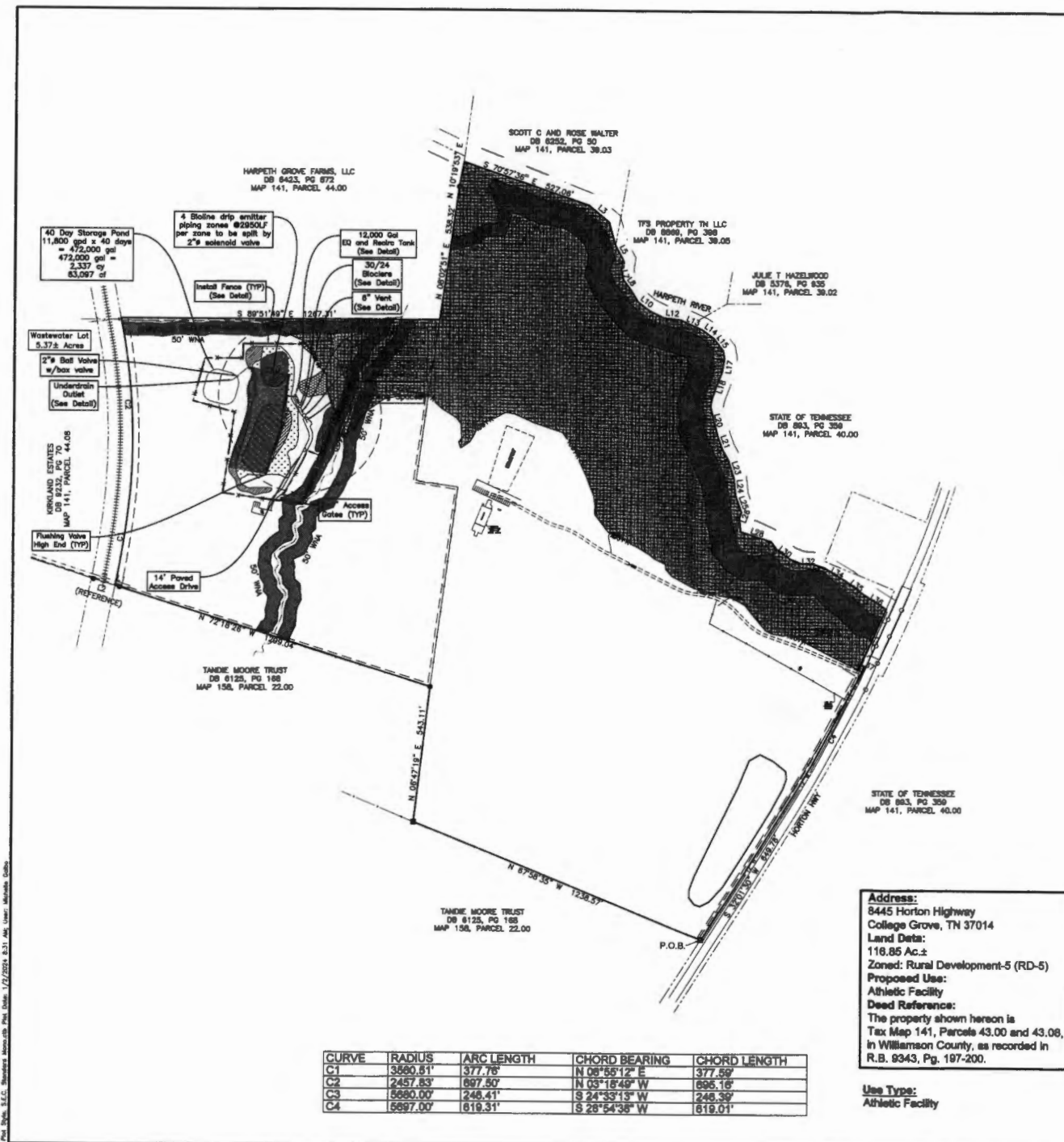
By: James F. Reed III Date: Jan. 2, 2024  
James F. Reed III, P.E. TN. Reg. #109038



Approved by the Williamson County Planning Commission, with such  
conditions as are indicated in the minutes of the Commission on \_\_\_\_\_

Sheet C0.0  
College Grove Athletic Facility TF  
S.E.C. Project #23722  
Date: 12-8-2023  
Revised:





- NOTES:**
- This property has been reviewed for the existence of intermittent and perennial streams. Streams that would require Watershed Natural Areas as described in Section 4 of the Williamson County Storm Water Management Regulations have been located as shown.
  - Within the Watershed Natural Area, there shall be no clearing, grading, construction or disturbance of vegetation except as permitted by the Williamson County Engineering Department.
  - This property has been evaluated in relation to Articles 13 and 19 of the Williamson County Zoning Ordinance for Resource Protection. The resources include, but are not limited to, Woodland and Tree Protection, Watershed Protection, Wetland Protection, and Steep Slope Protection. The resources not found on the property are Historic and Cultural Resources Protection, Karst Topographic Protection, Special Flood Hazard Area Protection, and Slippage Slopes Protection.
  - There are no critical lots within this development.

**TABLE 20.12-12-1: BUFFER ZONES**

APPLICABLE FOR TREATMENT AND STORAGE AREAS AND PRIMARY, SECONDARY, AND AUXILIARY AREAS

	Development Boundary	Internal Property Lines	Streams, Ponds, Reservoirs	Individually Situated Structures	Drinking Water Wells
Paving	25 Feet	25 Feet	25 Feet	50 Feet	300 Feet
Treatment Facility (Including Associated Equipment/Buildings)	300 Feet	150 Feet	25 Feet	300 Feet	300 Feet
Storage Facility	100 Feet	100 Feet	100 Feet	100 Feet	300 Feet
Application System					
Drip Emitters	100 Feet	25 Feet	50 Feet	100 Feet	300 Feet
Spray Nozzles	100 Feet	25 Feet	50 Feet	100 Feet	300 Feet

LINE	BEARING	DISTANCE
L1	S 73°21'35" E	92.76'
L2	S 73°21'35" E	92.76'
L3	S 50°12'22" E	104.18'
L4	S 15°54'17" E	97.23'
L5	S 27°45'21" E	63.53'
L6	S 09°01'03" W	40.32'
L7	S 11°51'27" E	40.81'
L8	S 36°36'20" E	55.23'
L9	S 31°52'12" E	50.46'
L10	S 52°29'30" E	58.76'
L11	S 64°59'43" E	64.00'
L12	S 84°01'18" E	66.10'
L13	S 64°35'58" E	94.86'
L14	S 53°10'22" E	58.53'
L15	S 36°32'03" E	59.01'
L16	S 09°38'14" E	31.85'
L17	S 09°20'51" W	53.60'
L18	S 20°16'02" W	110.63'
L19	S 11°55'41" W	34.42'
L20	S 13°50'45" E	124.74'
L21	S 19°35'28" E	54.79'
L22	S 28°21'58" E	48.34'
L23	S 16°54'51" E	74.49'
L24	S 05°49'08" E	69.76'
L25	S 19°21'19" E	71.74'
L26	S 20°33'09" W	24.48'
L27	S 05°34'14" E	54.09'
L28	S 72°25'32" E	128.32'
L29	S 35°59'08" E	36.40'
L30	S 53°39'35" E	65.73'
L31	S 68°35'36" E	52.29'
L32	S 87°14'11" E	51.18'
L33	S 72°29'44" E	45.38'
L34	S 58°40'54" E	100.83'
L35	S 52°02'16" E	87.24'
L36	S 57°33'10" E	107.41'
L37	S 64°12'13" E	17.00'

**Address:**  
8445 Horton Highway  
College Grove, TN 37014  
**Land Data:**  
116.85 Ac.±  
**Zoned:** Rural Development-5 (RD-5)  
**Proposed Use:**  
Athletic Facility  
**Deed Reference:**  
The property shown hereon is  
Tax Map 141, Parcels 43.00 and 43.06,  
in Williamson County, as recorded in  
R.B. 9343, Pg. 197-200.

**Use Type:**  
Athletic Facility

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	3660.51'	377.75'	N 08°55'12" E	377.69'
C2	2457.83'	697.50'	N 03°16'49" W	696.16'
C3	5680.00'	246.41'	S 24°33'13" W	246.39'
C4	5697.00'	619.31'	S 26°54'35" W	619.01'

**Legend:**

CONCRETE RETAINMENT	CONCRETE	CONCRETE
IRON PIPE SET (S.P.A.)	IRON PIPE SET (S.P.A.)	IRON PIPE SET (S.P.A.)
IRON PIPE PILING (S.P.A.)	IRON PIPE PILING (S.P.A.)	IRON PIPE PILING (S.P.A.)
EXIST. SIGN POST	EXIST. SIGN POST	EXIST. SIGN POST
EXIST. SIGN CLOSURE	EXIST. SIGN CLOSURE	EXIST. SIGN CLOSURE
EXIST. MANHOLE (SEWER & PHONE)	EXIST. MANHOLE (SEWER & PHONE)	EXIST. MANHOLE (SEWER & PHONE)
EXIST. GATE VALVE (HYDRAULIC)	EXIST. GATE VALVE (HYDRAULIC)	EXIST. GATE VALVE (HYDRAULIC)
EXIST. WATER/SEWER VALVE	EXIST. WATER/SEWER VALVE	EXIST. WATER/SEWER VALVE
EXIST. TELEPHONE RISER	EXIST. TELEPHONE RISER	EXIST. TELEPHONE RISER
EXIST. GAS RISER	EXIST. GAS RISER	EXIST. GAS RISER
ELECTRICAL ENCLOSURE	ELECTRICAL ENCLOSURE	ELECTRICAL ENCLOSURE
EXIST. WATER METER	EXIST. WATER METER	EXIST. WATER METER
EXIST. UTILITY POLE	EXIST. UTILITY POLE	EXIST. UTILITY POLE
EXIST. FIRE HYDRANT	EXIST. FIRE HYDRANT	EXIST. FIRE HYDRANT
POST INDICATOR VALVE	POST INDICATOR VALVE	POST INDICATOR VALVE
BLOW OFF VALVE	BLOW OFF VALVE	BLOW OFF VALVE
REDUCER	REDUCER	REDUCER
REMOTE FIRE DEPT. CONNECTION	REMOTE FIRE DEPT. CONNECTION	REMOTE FIRE DEPT. CONNECTION
CONCRETE THURSTER BLOCK	CONCRETE THURSTER BLOCK	CONCRETE THURSTER BLOCK
DOUBLE DETECTION CHECK VALVE	DOUBLE DETECTION CHECK VALVE	DOUBLE DETECTION CHECK VALVE
PIPE WYHOUST	PIPE WYHOUST	PIPE WYHOUST
GATE VALVE & BOX	GATE VALVE & BOX	GATE VALVE & BOX
WATER METER	WATER METER	WATER METER
GAS METER	GAS METER	GAS METER
GROVE TRIP	GROVE TRIP	GROVE TRIP
EXTENSION CLOSURE	EXTENSION CLOSURE	EXTENSION CLOSURE
MANHOLE	MANHOLE	MANHOLE
LIGHT POLE	LIGHT POLE	LIGHT POLE
EXISTING PHONE	EXISTING PHONE	EXISTING PHONE
EXISTING ELECTRIC	EXISTING ELECTRIC	EXISTING ELECTRIC
PROPERTY LINE	PROPERTY LINE	PROPERTY LINE
EXISTING	EXISTING	EXISTING
SEWER NETWORK	SEWER NETWORK	SEWER NETWORK
RIGHT OF WAY	RIGHT OF WAY	RIGHT OF WAY
EROSION CONTROL SLOPE	EROSION CONTROL SLOPE	EROSION CONTROL SLOPE
EROSION MD.	EROSION MD.	EROSION MD.
EXISTING TREE LINE	EXISTING TREE LINE	EXISTING TREE LINE
EXISTING FENCE LINE	EXISTING FENCE LINE	EXISTING FENCE LINE
MINIMUM BUILDING SETBACK LINE	MINIMUM BUILDING SETBACK LINE	MINIMUM BUILDING SETBACK LINE
PHASE BOUNDARY	PHASE BOUNDARY	PHASE BOUNDARY
EXISTING GAS LINE	EXISTING GAS LINE	EXISTING GAS LINE
PROPOSED GAS LINE	PROPOSED GAS LINE	PROPOSED GAS LINE
EXISTING BROWN	EXISTING BROWN	EXISTING BROWN
PROPOSED BROWN	PROPOSED BROWN	PROPOSED BROWN
EXISTING GREEN	EXISTING GREEN	EXISTING GREEN
PROPOSED GREEN	PROPOSED GREEN	PROPOSED GREEN
EXISTING CONTOUR LINES	EXISTING CONTOUR LINES	EXISTING CONTOUR LINES
PROPOSED CONTOUR LINES	PROPOSED CONTOUR LINES	PROPOSED CONTOUR LINES
EXISTING DRAINAGE SLOPE	EXISTING DRAINAGE SLOPE	EXISTING DRAINAGE SLOPE
PROPOSED DRAINAGE SLOPE	PROPOSED DRAINAGE SLOPE	PROPOSED DRAINAGE SLOPE
EXISTING WATER	EXISTING WATER	EXISTING WATER
PROPOSED WATER	PROPOSED WATER	PROPOSED WATER
POURBANK	POURBANK	POURBANK
POURBANK RETURN	POURBANK RETURN	POURBANK RETURN
FLOODING	FLOODING	FLOODING
JOINT TRENCH	JOINT TRENCH	JOINT TRENCH

**SEC. Inc.**  
ENGINEERING - SURVEYING - LAND PLANNING  
1500 MIDDLE TENNESSEE AVENUE, SUITE 200  
NASHVILLE, TENNESSEE 37203  
PHONE: (615) 897-7001  
FAX: (615) 897-7002  
E-MAIL: REED@SEC-CIVIL.COM  
WWW.REED@SEC-CIVIL.COM

**College Grove Athletic Facility IF**  
8445 Horton Hwy  
STEP System Design & Wastewater Site Plan  
Williamson County, Tennessee

**Master Site Plan**

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

**Scale:** 1" = 200'  
200' 0 200' 400'

**DATE:** 12-14-2023  
**CHECKED:** JPR  
**FILE NAME:** 8445HortonHwySTEP  
**SCALE:** 1" = 200'  
**JOB NO.:** 23722  
**SHEET:** C0.1





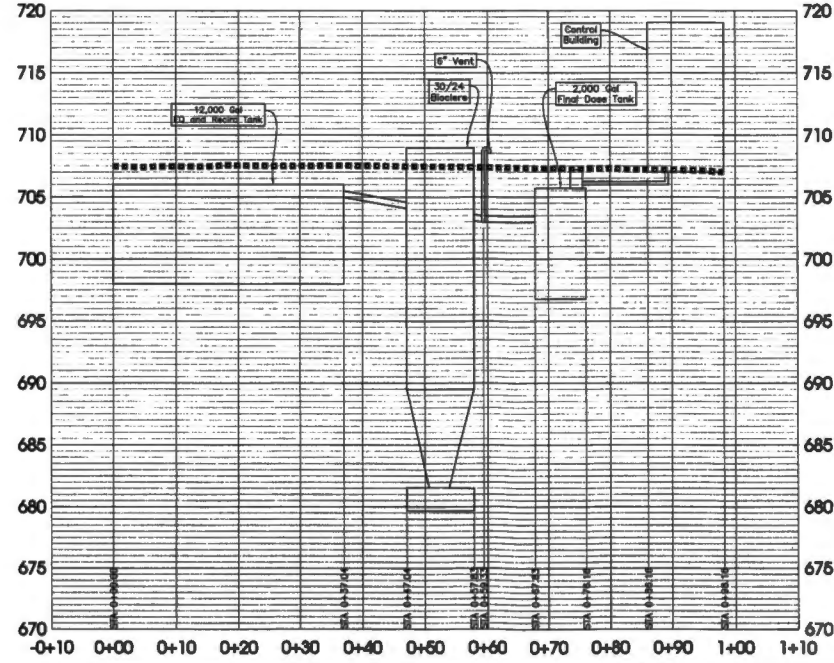
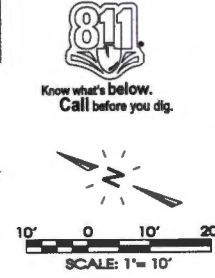
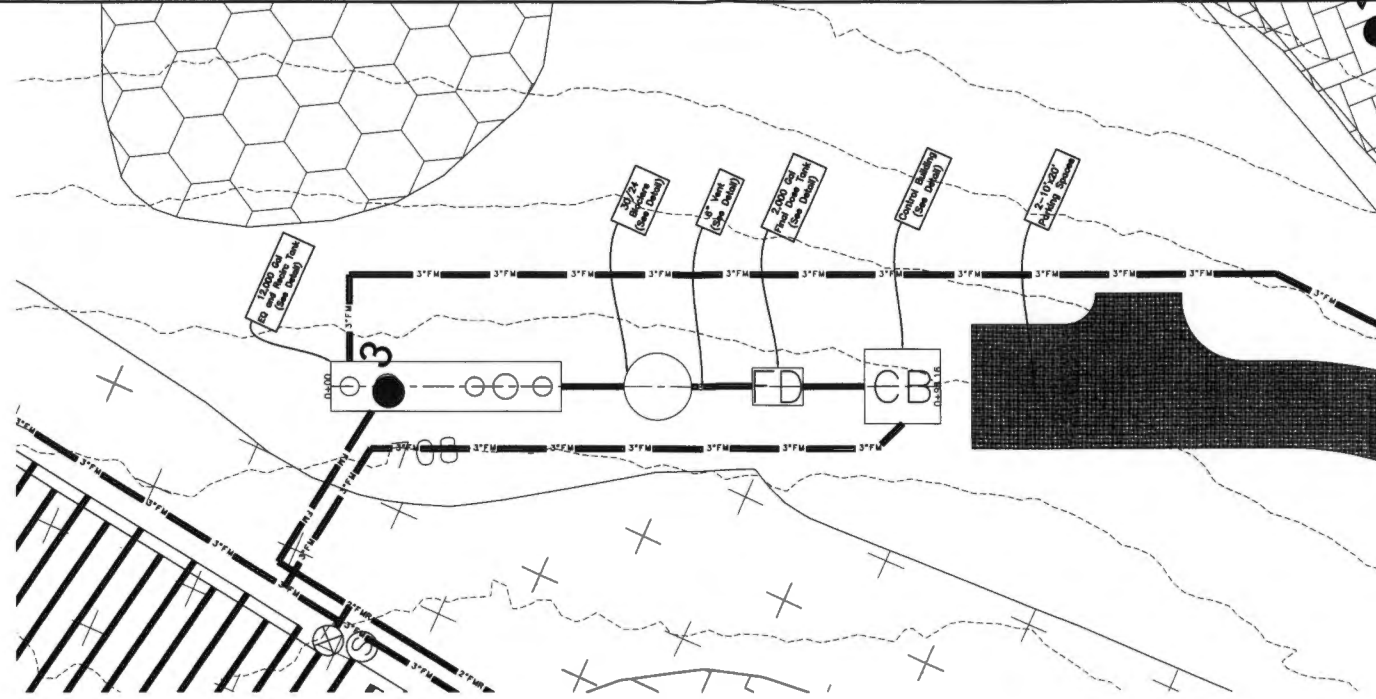








Proj. Sytle: S.E.C. Standard Manual: PWD Date: 1/2/2024 8:51 AM User: Mhanna, Caden



REVISED:

DRAWN: MLD

DATE: 12-8-2023

CHECKED:

JPL

FILE NAME:

237220-MhannaSTEP

SCALE:

1"=10' Horiz

1"=5' Vert

JOB NO.

23722

SHEET:

C3.0

Cross Sections

College Grove Athletic Facility TF  
8445 Horton Hwy  
STEP System Design & Wastewater Site Plan  
Williamson County, Tennessee

SEC, Inc.

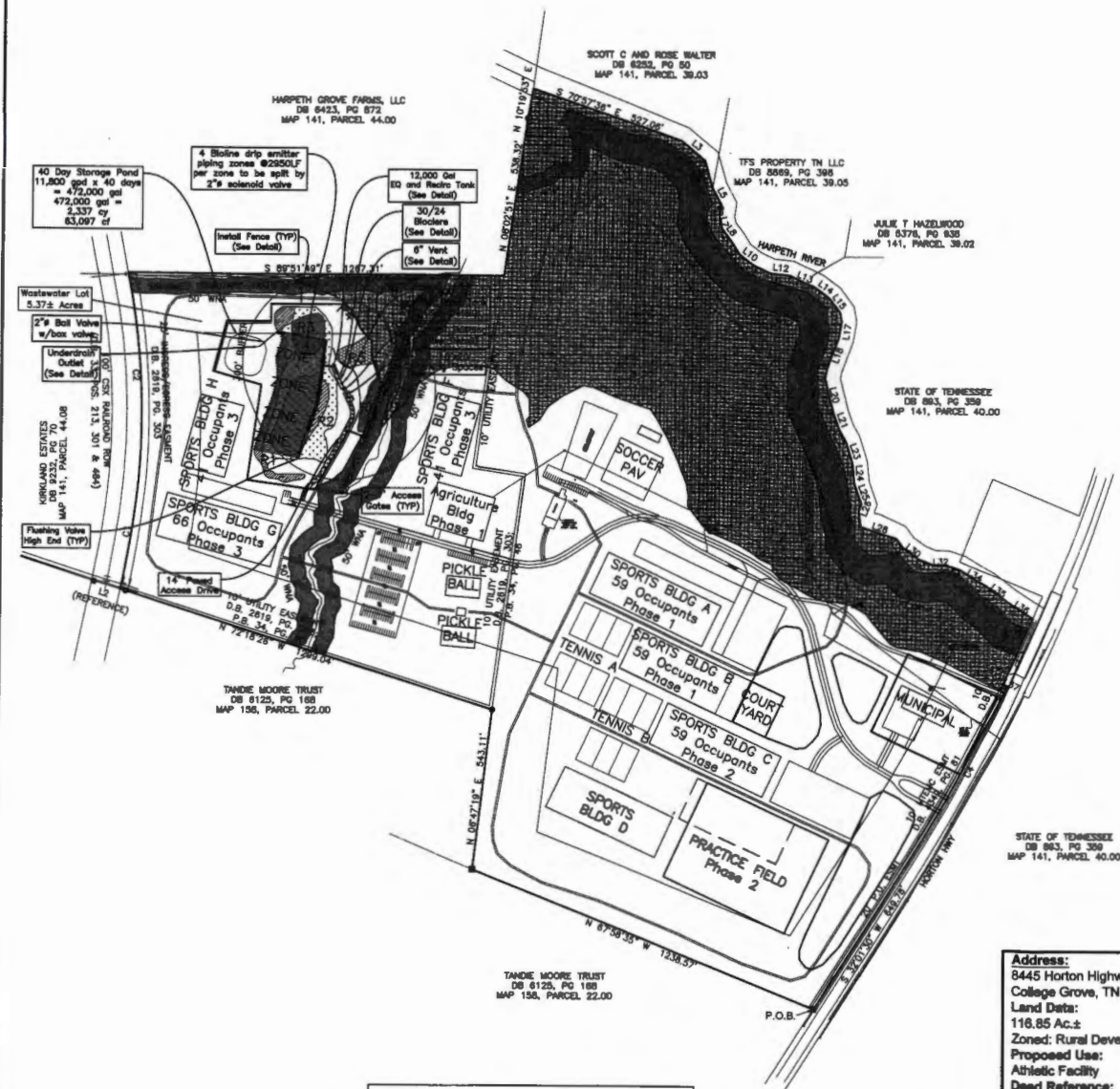
811

Know what's below.  
Call before you dig.

Professional Engineer  
JAMES F. REED  
No. 10000  
State of Tennessee

SITE ENGINEERING CONSULTANTS  
ENGINEERING • SURVEYING • LAND PLANNING  
450 MIDDLE TENNESSEE BOULEVARD  
MURFREESBORO, TENNESSEE 37139  
PHONE: (615) 890-1901 E-MAIL: REED@SEC-CIVIL.COM FAX: (615) 892-2567  
NO PORTION OF THE DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS  
WITHOUT THE WRITTEN CONSENT OF SEC, INC.







**Address:**  
8445 Horton Highway  
College Grove, TN 37014  
**Land Data:**  
116.85 Ac.±  
**Zoned:** Rural Development-5 (RD-5)  
**Proposed Use:**  
Athletic Facility  
**Deed Reference:**  
The property shown hereon is  
Tax Map 141, Parcels 43.00 and 43.08,  
in Williamson County, as recorded in  
R.B. 9343, Pg. 197-200.

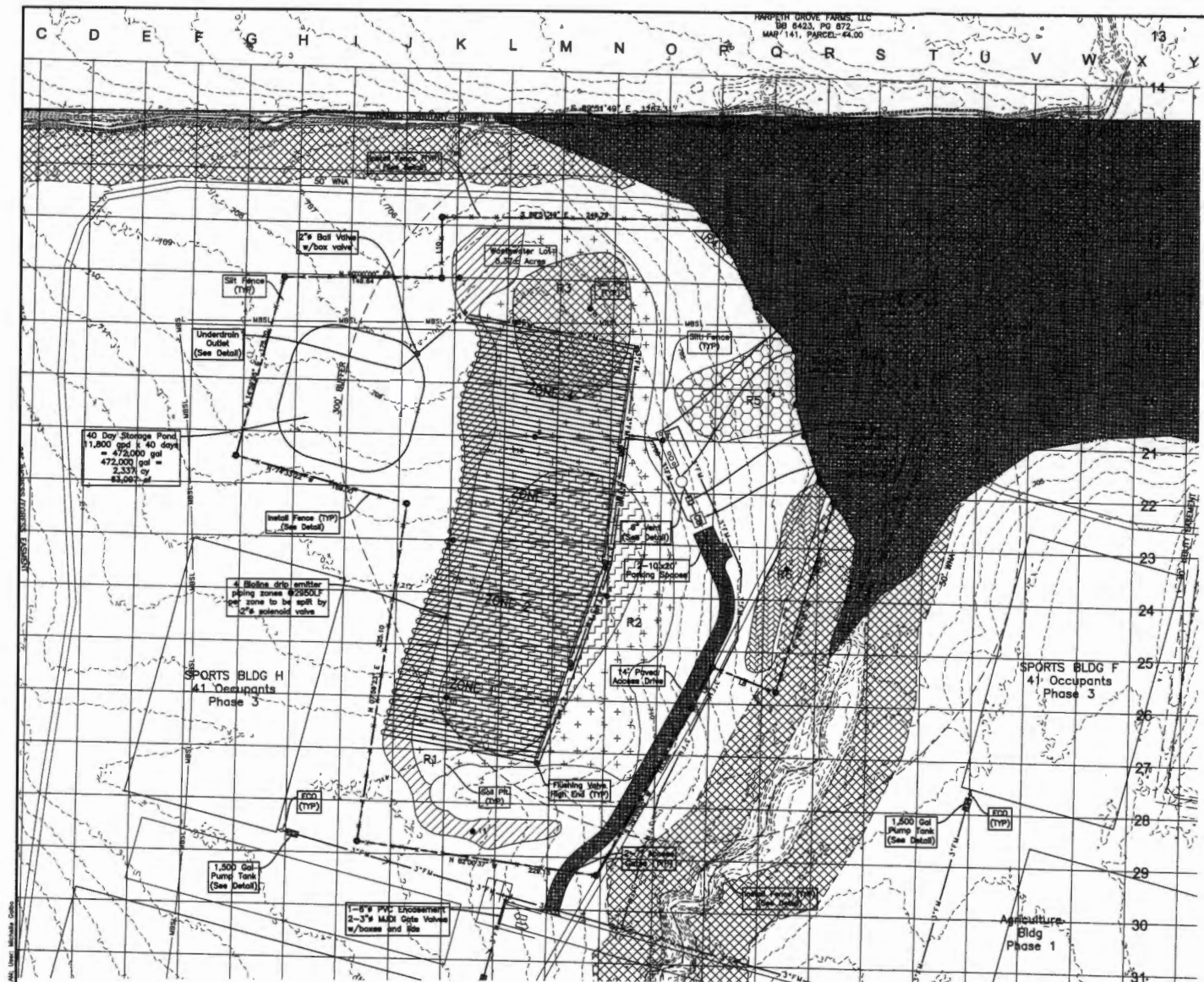
LINE	BEARING	DISTANCE
L1	S 73°21'35" E	92.76'
L2	S 73°21'35" E	92.76'
L3	S 50°12'22" E	104.18'
L4	S 15°54'17" E	97.23'
L5	S 27°45'21" E	63.53'
L6	S 09°01'03" W	40.32'
L7	S 11°51'27" E	40.81'
L8	S 36°36'20" E	55.23'
L9	S 31°52'12" E	50.46'
L10	S 52°29'30" E	58.76'
L11	S 84°59'43" E	64.00'
L12	S 84°01'18" E	66.10'
L13	S 84°35'58" E	94.86'
L14	S 53°10'22" E	58.53'
L15	S 36°32'03" E	59.01'
L16	S 09°38'14" E	31.85'
L17	S 09°20'51" W	53.60'
L18	S 20°16'02" W	110.83'
L19	S 11°55'41" W	34.42'
L20	S 13°50'45" E	124.74'
L21	S 19°35'28" E	54.79'
L22	S 28°21'58" E	48.34'
L23	S 16°54'51" E	74.49'
L24	S 05°49'08" E	69.76'
L25	S 19°21'19" E	71.74'
L26	S 20°33'09" W	24.48'
L27	S 05°34'14" E	54.09'
L28	S 72°25'32" E	128.32'
L29	S 35°59'08" E	36.40'
L30	S 53°39'35" E	65.73'
L31	S 68°35'36" E	52.29'
L32	S 87°14'11" E	51.18'
L33	S 72°29'44" E	45.38'
L34	S 58°40'54" E	100.83'
L35	S 52°02'16" E	87.24'
L36	S 57°33'10" E	107.41'
L37	S 64°12'13" E	17.00'



Know what's below.  
Call before you dig.

DATE: 12-5-2021 DRAWING: MLD DATE: 12-5-2023 CHECKED: JPL FILE NAME: 237229\client\STEP SCALE: 1" = 400' JOB NO: 23722 SHEET: C4.0		MASTER PLAN College Grove Athletic Facility 8445 Horton Hwy STEP System Design & Wastewater Site Plan Williamson County, Tennessee						SITE ENGINEERING CONSULTANTS ENGINEERING LAND-CAPE ARCHITECTURE 1500 MIDDLE TENNESSEE BOULEVARD MEMPHIS, TENNESSEE 38198 TEL: 901-522-1000 FAX: 901-522-1001 WWW.SEC-INC.COM NO PORTION OF THIS DOCUMENT MAY BE REPRODUCED WITHOUT THE WRITTEN CONSENT OF S.E.C., INC. COPYRIGHT © 1988, 2004		This seal is only valid on those construction documents prepared by the engineer or architect who is the holder of the seal. It is not valid for use on any other documents. It is the responsibility of the engineer or architect to ensure that the seal is not used on any documents that are not the responsibility of the engineer or architect. The seal is not valid for use on any documents that are not the responsibility of the engineer or architect.	
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Red Date: S.E.C. Standard Map and Plot Date: 1/2/2024, 8:30 AM, User: Mike Coker

Soils Type	Captiva-Cashew	Tress-Hobson	Boydland-Stratton	Arroyo-Hobson	Bluffs	Captiva	Total Stats
Area (Ac.)	17082.39	13363.01	64076.15	23855.39	4824.35	8862.37	121334.76

TABLE 20.12-12-1: BUFFER ZONES						
APPLICABLE FOR TREATMENT AND STORAGE AREAS AND PRIMARY, SECONDARY, AND AERIALITY AREAS						
	Development	Intervenor	Streams, Ponds, Roads	Highways	Drinking Water	
Paving	25 Feet	25 Feet	25 Feet	50 Feet	300 Feet	
Treatment Facility (Including	300 Feet	180 Feet	25 Feet	300 Feet	300 Feet	
Storage Facility	180 Feet	100 Feet	100 Feet	100 Feet	300 Feet	
Drp. Diffusers	100 Feet	25 Feet	50 Feet	100 Feet	300 Feet	
Spring Nozzle	180 Feet	25 Feet	50 Feet	100 Feet	300 Feet	

**NOTES:**

- This property has been reviewed for the existence of intermittent and perennial streams. Streams that would require Watershed Natural Areas as described in Section 4 of the Williamson County Storm Water Management Regulations have been located as shown.
- Within the Watershed Natural Area, there shall be no clearing, grading, construction or disturbance of vegetation except as permitted by the Williamson County Engineering Department.
- This property has been evaluated in relation to Articles 13 and 19 of the Williamson County Zoning Ordinance for Resource Protection. The resources include, but are not limited to, Woodland and Tree Protection, Watershed Protection, Wetland Protection, and Slope Protection. The resources not found on the property are Historic and Cultural Resources Protection, Karst Topographic Protection, Special Flood Hazard Area Protection, and Steep Slope Protection.
- There are no critical lots within this development.

**Address:**  
8445 Horton Highway  
College Grove, TN 37014

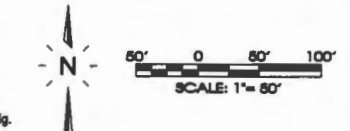
**Land Data:**  
116.85 Ac.±

**Zoned:** Rural Development-5 (RD-5)

**Proposed Use:**  
Athletic Facility

**Deed Reference:**  
The property shown hereon is  
Tax Map 141, Parcels 43.00 and 43.08,  
in Williamson County, as recorded in  
R.B. 9343, Pg. 197-200.

**Use Type:**  
Athletic Facility



**Legend:**

EXIST. CONCRETE MONUMENT	ROADWAY
EXIST. PAV. SURF (P.A.)	HANDICAP PARKING
IRON PIN FOUND (P.F.)	WALK ACCESSIBLE HANDICAP DESIGNATION
EXIST. SIGN POST	NO SIGN
EXIST. SINKY CULVERT	PROPOSED SIGN POST
EXIST. MANHOLE (SEWER & PHONE)	CONCRETE BOLLARD
EXIST. CATCH BASIN (STORM SEWER)	WHEEL STOP
EXIST. WATER/GAS VALVE	CONCRETE BOLLARD
EXIST. TELEPHONE RISER	EXTENDED CURB
EXIST. GAS RISER	CURB & GUTTER
ELECTRICAL ENCLOSURE	TRAFFIC ARROW
EXIST. WATER METER	TURN LANE ARROW
EXIST. UTILITY POLE	REVERSE MIRROR
EXIST. FIRE HYDRANT	DRAINAGE STRUCTURE DESIGNATION
POLE INDICATOR VALVE	DRAINAGE STRUCTURE DESIGNATION
SLURRY OFF VALVE	SPOT ELEVATION
REDUCER	RANDOM FLOW ARROW
REINFORCED CONCRETE MONUMENT	SAFETY FILTER PROTECTION
CONCRETE THURST BLOCK	PROPOSED SPOT ELEVATION
DOUBLE DETECTOR CHECK VALVE	EXIST. SPOT ELEVATION
FIRE DEPT. CONNECTION	SEWER/STORM FLOW DIRECTION
PIPE WYHOSE	CATCH BASIN
GRASS VALVE & BOX	CURB W/LET
WATER METER	AREA DRAIN
GAS METER	NO SIGN
GREENWAY	WALKED WALKWAY
EXTENSION CULVERT	CONCRETE BOLLARD
MANHOLE	TYPE 3-REINFORCED
UTILITY POLE	DRINKY LIGHT

EXISTING PHONE	PH
EXISTING ELECTRIC	EH
PROPERTY LINE	---
EXISTENTS	---
SEWER SEWER	SE
RIGHT OF WAY	ROW
CRASH CONTROL	SF
CRASH BIL	E
EXISTING FREELINE	X
EXISTING FENCELINE	X
MINIMUM BUILDING SETBACK LINE	MBSL
PHASE BOUNDARY	-----
EXISTING BNS LINE	---
PROPOSED BNS LINE	---
EXISTING SIGN	ST M
PROPOSED SIGN	ST M
EXISTING CONTOUR LINES	---
PROPOSED CONTOUR LINES	---
EXISTING SANITARY SEWER	SS
PROPOSED SANITARY SEWER	SS
EXISTING WATER	W
PROPOSED WATER	W
FORCERAIN	F M
FORCERAIN RETURN	F MR
FLOORING	F W
JOINT TRENCH	---

**SEC. Inc.**  
ENGINEERING & LAND PLANNING  
480 N. 10th St. Suite 100  
College Grove, TN 37014  
PHONE: (615) 840-7901  
FAX: (615) 895-2567  
E-MAIL: REED@SEC-CIVIL.COM  
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**College Grove Athletic Facility TF**  
8445 Horton Hwy  
STEP System Design & Wastewater Site Plan  
Williamson County, Tennessee

**Sols Plan**

**C5.0**



**Grading and Drainage Notes:**

1. The site work contractor shall coordinate the installation of all underground utilities with the work. All underground utilities (water, sanitary sewer, storm sewer, electrical conduit, irrigation channels, and any other miscellaneous underground utilities, ditches, or structures), shall be in-place prior to the placement of base course material.
2. The contractor shall not subgrade pavement as necessary to ensure a smooth R1 and uniform grade.
3. The contractor shall verify horizontal and vertical location of all existing storm sewer structures, pipes and of utilities prior to construction.
4. Clearing and grading shall include all areas disturbed by grading operations.
5. Any graded or disturbed areas shall have 4 inches of topsoil, seed, mulch, fertilizer and water applied until a healthy stand of grass is obtained. The restoration shall closely follow construction.
6. This site lies within Zone X, not in a 100 Year Flood Hazard Area per F.E.M.A. Map No. 47187C0302F dated September 25, 2006.
7. All cut/slope and drainage swales shall be stabilized to the satisfaction of the Williamson County Engineering Department. If stabilization is not achieved by seeding or sodding, then more adequate measures such as erosion control fabric, permanent turf reinforcement matting or concrete lining shall be used.
8. Contact the Williamson County Engineering Department at 615-750-5829 to request permits to perform work within the public right-of-way.
9. Any improvements or modifications within the public right-of-way require the approval of the Williamson County Highway Department.

**Erosion Control Notes:**

1. The site contractor is responsible for establishing and maintaining suitable erosion and sediment control devices on-site during construction as required to prevent dirt from leaving site. Erosion control shall be placed beyond construction limits.
2. The contractor is responsible for removing all from site if not reasonable on-site and ensuring plan alignment and grade in all ditches at completion of construction.
3. The contractor is responsible for cleaning all storm drainage structures, including flumes, pipes, etc., prior to completion of this project.
4. Erosion control shall be provided for all cut and fill operations within the limits of the construction site, throughout the construction period to provide the site with maximum protection from erosion at all times.
5. Erosion control measures are to be installed prior to any grading on-site and are to be maintained in place until stabilization of erodible soils has been accomplished.

**General Utility Notes:**

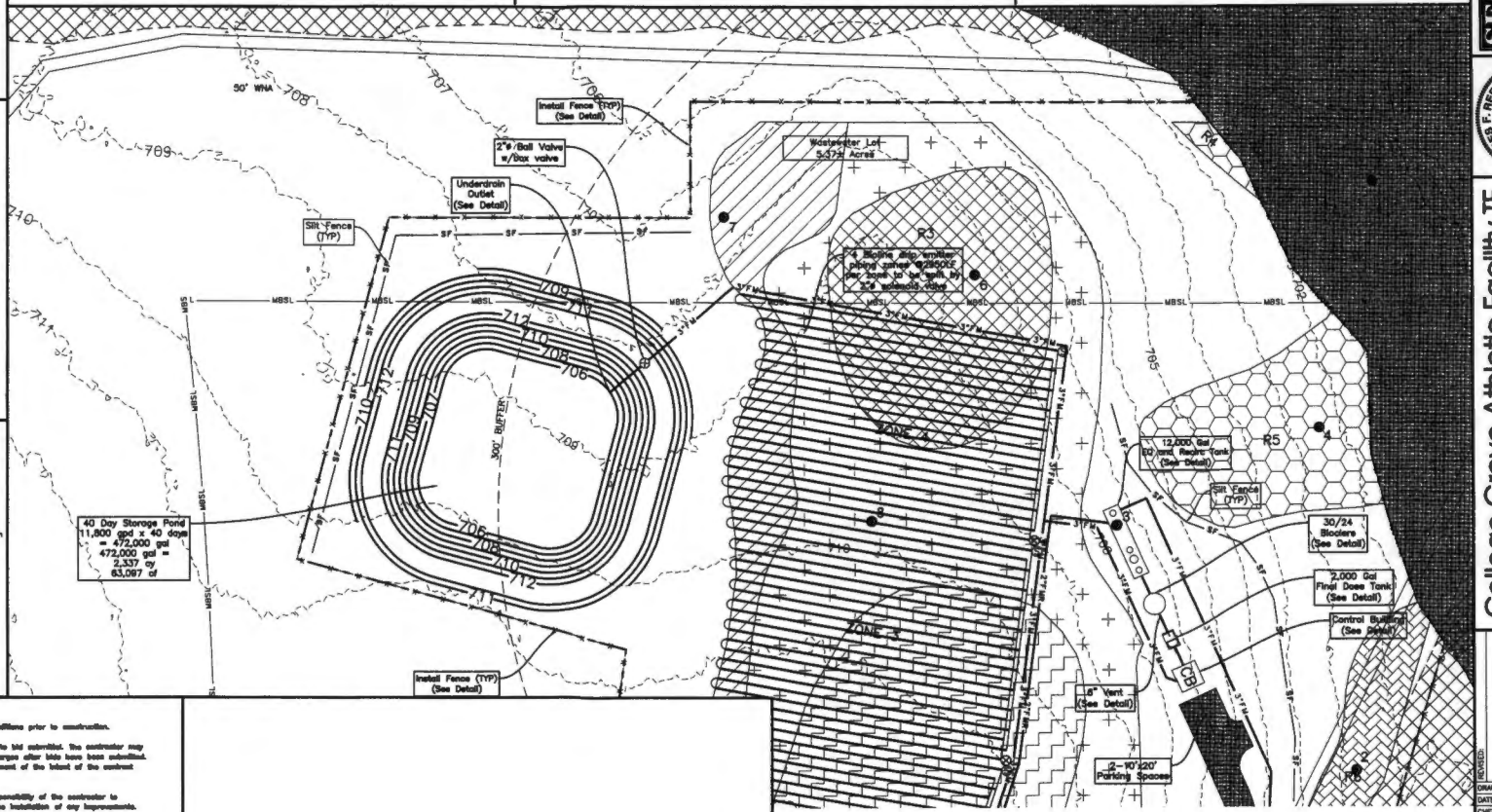
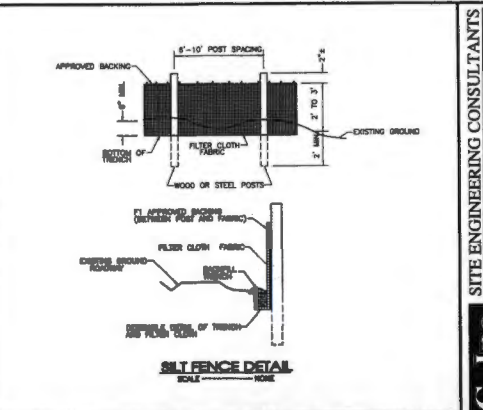
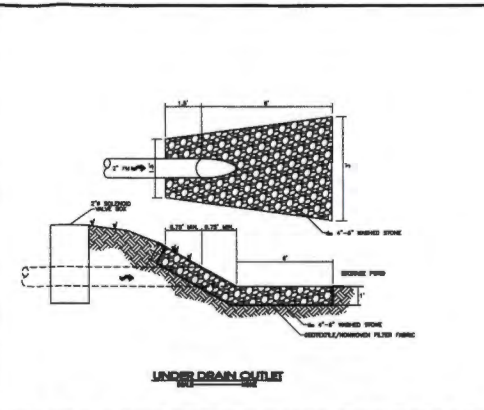
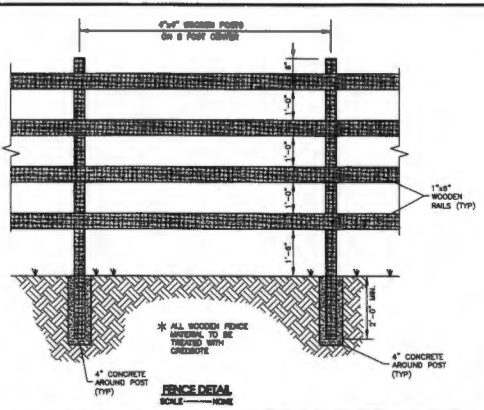
1. Existing utility lines shown are approximate locations only. The contractor shall field verify all existing utility line locations prior to any construction. Any deviations from the design locations shall be reported to the owner or engineer prior to beginning construction.
2. The contractor shall provide all necessary protective measures to safeguard existing utilities from damage during construction of this project. In the event that special equipment is required to work over and around the utilities, the contractor will be required to furnish such equipment. The cost of protecting utilities from damage and furnishing special equipment will be included in the price bid for other items of construction.
3. The contractor shall notify each individual utility owner of this plan of operations in the area of the utilities, prior to commencing work. The contractor shall contact the utility owners and request them to properly locate their respective utility on the ground. This notification shall be given at least three (3) business days prior to commencement of operations around the utility.
4. The contractor shall refer to engineer's plans and specifications for actual location of all utility entrances to include sanitary sewer laterals, domestic water, and electrical service. The contractor shall coordinate installation of utilities in such a manner as to avoid conflicts and ensure proper depths are achieved as well as coordinating with the regulatory agency as to location and scheduling of the on/connections to their facilities.
5. All underground utilities (water, sewer, storm sewer, electrical conduit, irrigation channels, and any other miscellaneous), shall be in-place prior to the placement of base course material.
6. Location of site utilities shall be verified with proper utility company providing service.
7. In Tennessee it is a requirement per "the underground utility damage prevention act" that anyone who engages in excavation must notify of known utility owners, no less than three nor more than ten working days, prior to their intended excavation. A list of these utility owners may be obtained from the county register of deeds these utility owners who participate in the Tennessee one call system can be notified toll free at 1-800-251-1111.

**S.T.E.P. System General Notes:**

1. The location of treatment system components as shown are general in nature. Minor field adjustments may be necessary. The contractor may request to modify the location of the components through the owner and the Tennessee Division of Water Pollution Control.
2. This design is for the treatment and disposal of wastewater collected from College Grove Athletic Facility Treatment Facility, design flow 11,800 gpd.
3. All flows for this system shall be controlled and monitored by control panel and compatible with Hach MS (Hach Monitoring System). This monitoring shall be considered the flow meter for this system.
4. The minimum horizontal separation between the closest two points of the water and sewer line is ten (10) feet. The minimum vertical separation between the closest two points of the water and sewer shall be 18 inches, with waterlines being above sewerlines.
5. Contractor shall comply with the most current requirements, specifications, and detail drawings for the installation of STEP system collection lines as outlined per specifications of TWS, INC. and T.D.E.C.
6. All trenches, pipe laying, and installation shall be in accordance with Federal O.S.H.A. regulations.
7. Utility contractor shall have approval of all governing agencies having jurisdiction over this system prior to installation.
8. All tanks shall be one-piece, structurally sound, watertight tanks as manufactured by Jotall Concrete Products, or approved equal.
9. Testing procedure for water tightness is as follows: PB test: 2" into the floor. After a period of 24 hours, the water level should have lowered no more than 1/8".
10. Collection force mains shall be 3" & 4" EDR17 grade PVC pipe (color to be coordinated with TWS, INC). Force mains shall be tested and rated for a 120 PSI working pressure.

**Site Notes:**

1. Contractor shall immediately notify the engineer of any discrepancies found between these plans, and/or field conditions prior to construction.
2. Apparent errors, discrepancies, or omissions on the drawing shall be brought to the attention of the owner prior to bid submittal. The contractor may not use apparent errors, discrepancies, or omissions proved on the drawings presented for bidding for additional charges after bids have been submitted. The architect shall be permitted to make corrections and interpretations as may be deemed necessary for the fulfillment of the intent of the contract documents.
3. The contractor shall obtain all improvements using the geometric data provided in the drawings. It is the sole responsibility of the contractor to completely check and check all improvements to ensure adequate positioning, both horizontal and vertical, prior to the installation of any improvements. No digital file will be provided.
4. The notes and plans shall call attention to certain required features of the construction but do not claim to cover all details of design and construction. The contractor shall furnish and install the work complete and ready for operation.
5. After completion of construction, the contractor shall perform site cleanup to remove all trash, debris, excess materials, equipment, and other deleterious materials associated with construction. The contractor is expressly responsible for ensuring the site is clean and in equitable condition at the time of final acceptance.
6. The contractor is responsible for the protection and replacement of all property pins on this site.
7. These drawings are intended for use on this site only and as an integrated set for this specific project. These drawings may not be used in whole or in part on any other project under the professional engineer's seal. The owner shall hold harmless and indemnify the architect and engineer from and against any and all claims of any nature whatsoever arising from such use.
8. A separate R.O.W. Easement Permit issued from Williamson County shall be required for any excavation or construction in the public R.O.W.



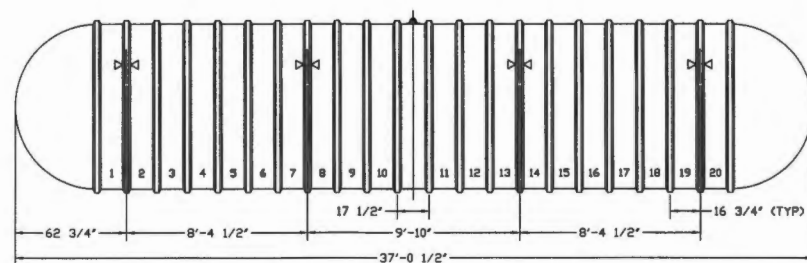
**SEC, Inc.**  
ENGINEERING - SURVEYING - LAND PLANNING  
830 MIDDLE TENNESSEE BOULEVARD, SUITE 200  
NASHVILLE, TENNESSEE 37129  
PHONE: (615) 890-7501 FAX: (615) 890-7502  
E-MAIL: JAMES@SEC-CIVIL.COM  
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**College Grove Athletic Facility TF**  
8445 Horton Hwy  
STEP System Design & Wastewater Site Plan  
Williamson County, Tennessee

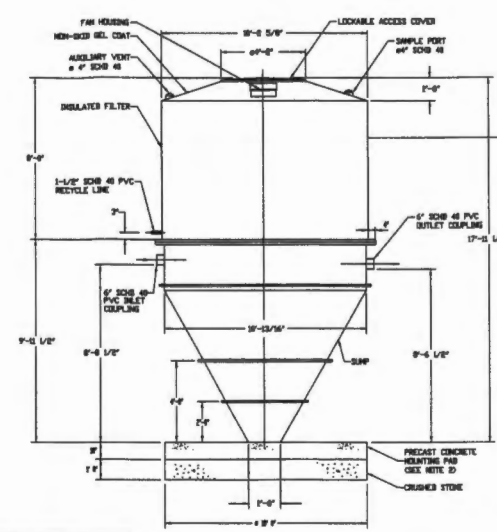
REVIEWED: \_\_\_\_\_  
DRAWN: MLO  
DATE: 12-8-2023  
CHECKED: JPN  
FILE NAME: 237226-HandSTP  
SCALE: 1"=30'  
JOB NO: 23722  
SHEET: C6.0







**XERXES CORPORATION**  
 TITLE: 8" DIA. S.V.T.  
 CAP. 12,000 GALLONS  
 DATE: 8-05  
 REV. NO.: S10-879.01

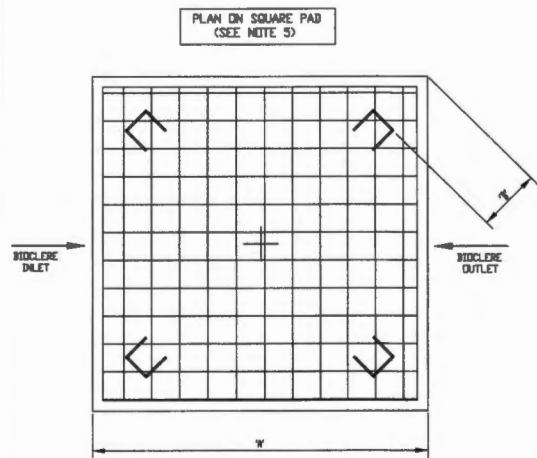


- NOTES:  
 1. VENT MAY BE RUN UP THE SIDE OF BUILDING.  
 2. SEE DRAWING 1244-9 FOR MOUNTING PAD CONSTRUCTION DETAILS.  
 3. FINISHED GRADE MAY BE BETWEEN 18" ABOVE RECYCLE LINE AND 14" BELOW TOP OF UNIT.

SHIPPING WEIGHTS	
WEIGHT DRY WITH MEDIA	= 4250 lbs
WEIGHT DRY WITH NO MEDIA	= 2800 lbs

**AQUAPOINT**  
 39 TARKILN PLACE  
 NEW BEDFORD, MA 02745  
 (508) 985-9050 FAX (508) 985-9072

TITLE: BIOCLEIRE 30/24 GENERAL ARRANGEMENT	
DRAWING NO.	UK1262-4
REVISED	E
DATE	MAY 9, 2009
BY	P. WILLEY
SCALE	1" = 4'
SHEET	1 OF 1



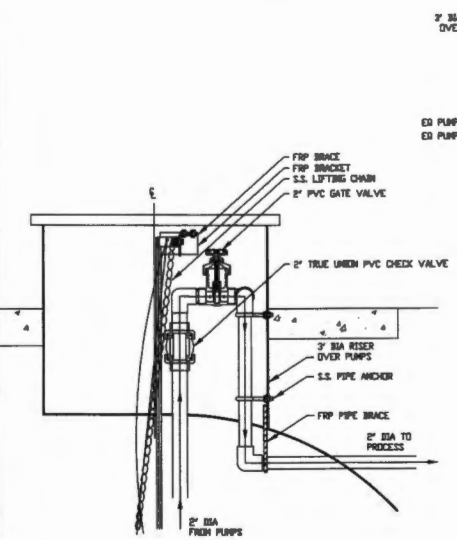
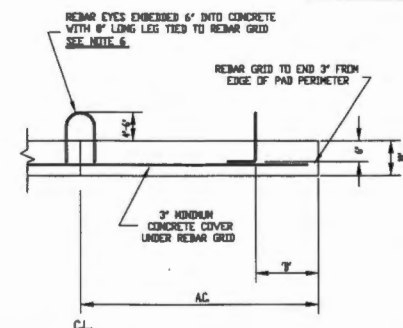
BIOCLEIRE MODEL	"H"	"D"	STEEL REINFORCEMENT GRID	APPROX. PAD WEIGHT
24	8"	1'6"	#3 REBAR @ 6" O.C.	6,000 lbs
30	10"	2'0"	#3 REBAR @ 6" O.C.	12,500 lbs
36	12"	2'6"	#4 REBAR @ 10" O.C.	18,000 lbs

- NOTES: UNLESS OTHERWISE SPECIFIED:  
 1. CONCRETE MINIMUM STRENGTH: 4,000PSI @ 28 DAYS.  
 2. DEFORMED REINFORCING BARS TO BE 60,000 PSI YIELD STRENGTH.  
 3. EYES (4) 1/2" DIAMETER REBAR CAST IN PLACE AS SHOWN.  
 4. PAD TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.  
 5. CIRCULAR PADS WITH "H" = DIAMETER, CAN BE SUBSTITUTED FOR SQUARE PADS.  
 6. REBAR EYES ARE NOT DESIGNED FOR LIFTING THE CONCRETE PAD.

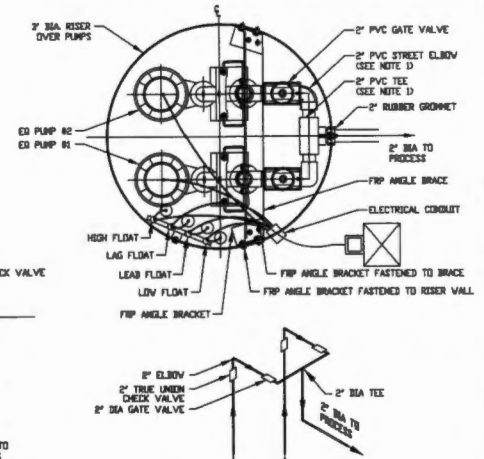
**AQUAPOINT**  
 39 TARKILN PLACE  
 NEW BEDFORD, MA 02745  
 (508) 985-9050 FAX (508) 985-9072

TITLE: PRECAST MOUNTING PAD FOR 24, 30 & 36 SERIES BIOCLEIRES	
DRAWING NO.	1244-9
REVISION	A
DATE	1 May 2009
BY	P. WILLEY
SCALE	1" = 2'0"
SHEET	B (A3)

PAD ELEVATION (ACROSS CORNERS)



FRP TANK DUAL PUMP RISER DETAIL



ISOMETRIC DETAIL SHOWING TRUE PIPEWORK GEOMETRY (SEE NOTE D)

- GENERAL NOTES:  
 1. USE ONLY PRESSURE RATED PVC FITTINGS. UNDER NO CIRCUMSTANCES ARE DRAINAGE WASTE VENT (DWV) FITTINGS ACCEPTABLE.

**AquaPoint**  
 39 TARKILN PLACE  
 NEW BEDFORD, MA 02745  
 (508) 985-9050 FAX (508) 985-9072

TITLE: PIPEWORK DETAIL FOR 2\"/>	
DRAWING NO.	1290-1
REVISION	A
DATE	AUGUST 11 2016
BY	K. LEACH
SCALE	NTS
SHEET	1 OF 1

**SITE ENGINEERING CONSULTANTS**  
 ENGINEERING - SURVEYING - LAND PLANNING  
 150 MIDDLE TENNESSEE BOULEVARD, SUITE 200  
 MURFREESBORO, TENNESSEE 37139  
 PHONE: (615) 895-7900 FAX: (615) 895-7901  
 E-MAIL: JAMES@SEC-CIVIL.COM  
 JAMES@SEC-CIVIL.COM  
 JAMES@SEC-CIVIL.COM

**SEC, Inc.**

**College Grove Athletic Facility**  
 8445 Horton Hwy  
 STEP System Design & Wastewater Site Plan  
 Williamson County, Tennessee

DATE: 12-8-2023  
 CHECKED: JPL  
 FILE NAME: 237229-MainStep

SCALE: N.T.S.  
 JOB NO.: 23722  
 SHEET: C6.2



- **Three phase:** Overload protection must be provided in starter unit with three phase pumps.
- **Power cord:** 20 feet long. Single phase 115 V and 230 V models are supplied with molded NEMA plugs and built-in capacitors. Three phase models are supplied with bare leads.

- Handling dirty waters
- Draining ditches and pits
- Excavating in the building trades
- Water transfer
- Industrial water drainage or transfer

- Discharge size: 1 1/2" NPT
- Capacities: up to 110 GPM
- Total heads: up to 66 feet TDH.
- Max. solids: 3/4" spherical.
- Mechanical seal: Drive lub. oil-free carbide-antimony.

- Maximum submergence: 120' (36.6 m).
- Temperature limit: 120°F (50°C) maximum.
- Footers: 300 series stainless steel.

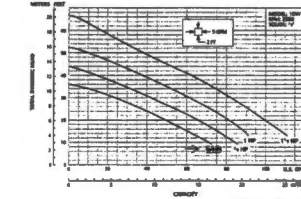
- Single phase: 60 Hz, 3500 RPM, 1/4 HP, 115 and 230 V; 1/4 and 1/2 HP, 230 V only.
- Three phase: 60 Hz, 3500 RPM, 1/4 to 1 1/2 HP, 230 or 480 V.
- Built-in thermal overload protection with automatic reset on single phase models.

- Three phase: Overload protection must be provided in starter unit with three phase pumps.
- Power cord: 20 feet long. Single phase 115 V and 230 V models are supplied with molded NEMA plugs and built-in capacitors. Three phase models are supplied with bare leads.
- Class F insulation.

**FEATURES**

- Impeller: A201 304 SS open impeller.
- Diffuser Plates A201 304 SS with Polysulfone lining for maximum resistance to abrasion.

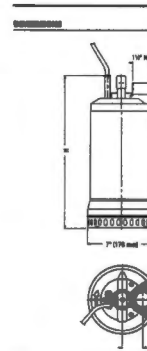
- **Shaft:** AISI type 304 stainless steel high strength pump shaft with keyed and locking cap screw impeller fastening.
- **Motor:** Air filled class F insulator design for continuous use.
- **Designed for Continuous Operation:** Pump ratings are within the motor's working limits and can be operated continuously without damage.
- **Bearings:** Upper and lower heavy duty ball bearing construction.



## Goulds Pumps

© 2005 AT Water Technology, Inc.  
Effective November, 2005  
01007

**Submersible  
Dewatering Pump**  
1½" Dewatering Pump



Order No.	RP	Volts	Phase	Max. Amps.	SPW	Weight (lb.)
10WV5C8A	2	230	3	4.5	100	20
10WV5C8A		400	3	2.5		27
10WV5C8A		400	3	1.3		27
10WV5D8A	1	230	1	5.7	100	23
10WV5D8A		400	1	3.6		30
10WV5D8A		400	1	1.8		30
10WV5E1A	1	230	1	6.3	100	26
10WV5E1A		400	1	4.0		30
10WV5E1A		400	1	2.0		30
10WV5F3A	110	230	3	5.6	100	27
10WV5F3A		400	3	2.7		27

Series	WP	Phase	Directions	Discharge Size
			In inches (mm)	
A	B	1	175 (443)	300
		2	175 (443)	
	11	1	175 (443)	
		2	140 (353)	
	1	1	175 (443)	
		2	175 (443)	
11	2	175 (443)		

### Goulds Pumps

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A cross-sectional diagram of a circular manhole. The manhole is shown as a large circle with a horizontal centerline. Above the circle, there are three vertical pipes or structures. The leftmost pipe has an arrow pointing into the manhole labeled "SEWER INLET". The middle pipe has an arrow pointing out of the manhole labeled "1'6\"". The rightmost pipe has an arrow pointing out of the manhole labeled "2'6\"". Below the circle, there is a horizontal line representing the ground surface. A vertical line with an arrow pointing down from the centerline is labeled "GRAVITY OF PUMP FLOW TO PROCESS". At the bottom of the diagram, there is a horizontal line labeled "SECTION".

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 ARE NOT TO BE USED EXCEPT IN  
 CONNECTION WITH OUR WORK DESIGN AND  
 IN RIGHTS ARE RESERVED. NO FURTHER  
 REPRODUCTION OR DISTRIBUTION OF THIS  
 DRAWING ARE PERMITTED WITHOUT PRIOR  
 WRITTEN PERMISSION.

1. RECYCLE PIPEWORK AND FITTINGS  
TO BE 1/2" PVC SCH 40

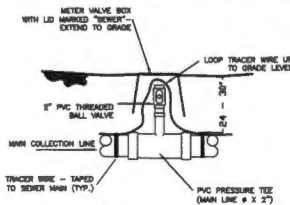
2. TAKE INSTALLATION AND SHROUD TO MEET  
MANUFACTURERS RECOMMENDATIONS AND LOCAL CODES

2 Recycle Glass only

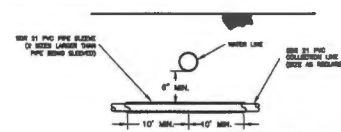
# AQUAPOINT

39 TARKILN PLACE  
NEW BEDFORD, MA 02745  
(508) 985-9050 FAX (508) 985-9072

TITLE	
TYPICAL GROUND INSTALLATION	
DRAWING NO.	1285-S
REVISION	--
DATE	Jan 12 2006
DRAWN BY	P.WILLEY
SCALE	1 = 50
SHEET	B / A3

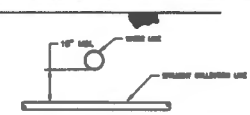


INSTALL ONE (1) TESTING PORT PER COLLECTION LINE. COORDINATE  
INSTALLATION/LOCATION WITH UTILITY INSPECTOR, OR AGENCIES ENGINEER.  
LOCATION OF TESTING PORT TO BE NOTED ON AS-BUILT DRAWINGS.

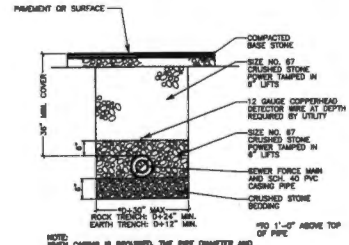
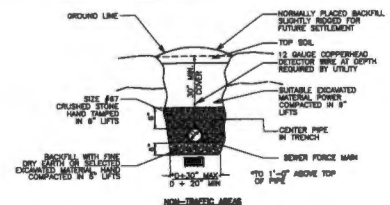


\* ONLY 6" (MIN.) OF SEPARATION MUST BE MAINTAINED IF SEWER LINE IS BLENDED 10" (MIN.) BEYOND BOTH SIDES OF CROSSING WITH WATER LINE. OTHERWISE, 16" (MIN.) OF SEPARATION MUST BE MAINTAINED.

\* ONLY 6" (MIN.) OF SEPARATION MUST BE MAINTAINED IF SENIOR LINE IS CLEARED 10" (MIN.) BEYOND BOTH SIDES OF CROSSING WITH WATER LINE. OTHERWISE, 16" (MIN.) OF SEPARATION MUST BE MAINTAINED.



OML: R.T.

**RECEIVED N.Y.S.**

NOTE: WHEN CASING IS REQUIRED, THE PIPE DIAMETER AND MINIMUM COVER SHALL REFER TO THE CASING DIAMETER.

**EMBEDMENT**

EMBED TRENCH AND ROCK TRENCH

**DIRT BEDDING #2**  
SCALE \_\_\_\_\_ NONE  
**COLLECTION PIPE**

**SITE ENGINEERING CONSULTANTS**  
ENGINEERING • SURVEYING • LAND PLANNING  
LANDSCAPE ARCHITECTURE  
BOULEVARD MURFREESBORO, TENNESSEE 37129  
MAIL: JREDD@SC-CIVIL.COM, FAX: (615) 895-2569  
WWW.JREDD@SC-CIVIL.COM • CONSULTING DESIGN GROUP OF E.L.C. INC.  
COPYRIGHT © E.L.C. INC. 2004  
Site is intended to achieve specific engineering design criteria and objectives. It is the sole responsibility of the client to ensure that the design and construction of the site abides by all applicable laws, codes, and regulations. The client is responsible for obtaining all necessary permits and approvals from the appropriate authorities. The client is responsible for ensuring that the design and construction of the site is in accordance with all applicable laws, codes, and regulations. The client is responsible for ensuring that the design and construction of the site is in accordance with all applicable laws, codes, and regulations.

**SEC, Inc.**  
150 MIDDLE TENNESSEE  
PHONE: (615) 890-7901  
NO PORTION OF THIS DRAWING MAY BE



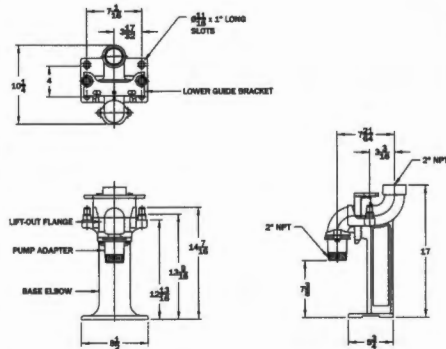
**College Grove Athletic Facility TF**  
8445 Horton Hwy  
STEP System Design & Wastewater Site Plan  
Williamson County, Tennessee

## Details

REVISED:	
DRAWN: MLC	
DATE: 12-8-2023	
CHECKED:	
JFR	
FILE NAME:	
23722KIntendSTEP	
SCALE:	
N.T.S.	
JOB NO.	
23722	
SHEET:	

### C6.3

NOTE: ALL DIMENSIONS ARE IN INCHES.  
MATERIALS OF CONSTRUCTION:  
PUMP ADAPTER: 304 SST  
BASE ELBOW: CAST DUCTILE IRON  
LIFT-OUT FLANGE: CAST DUCTILE IRON  
LOWER GUIDE BRACKET: 304 SST  
ALL FASTENERS ARE 304 SERIES SST  
USABLE RAIL SIZES: 1" & 1 1/2"  
MAXIMUM WEIGHT ALLOWANCE: 200 lbs



ALL INFORMATION CONTAINED IN THIS DRAWING IS  
CONFIDENTIAL AND PROPRIETARY TO CONERY MFG. INC.

CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS XXX = ±.005 XX = ±.010 X = ±.015	D. MIDDLETON	03/05/04
D	FRACTIONAL X/4 = ±.1/4 X/8 = ±.1/8 X = ±.1/2		
C			
B			
A			

**CONERY**  
MFG. INC.

SPECIFICATION SHEET  
DIMENSIONAL DATA

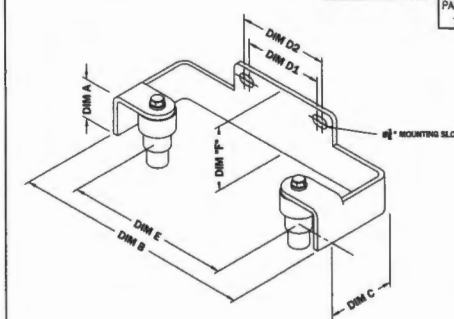
SCALE	PART NO.
1/8"	2" LIFT OUT DIM

BERS 200

PAGE 1

NOTE: BRACKET CAN BE USED FOR 1", 1 1/2" GUIDE RAILS.

GUIDE BRACKET



MODEL NO.	DIA. "A"	DIM "B"	DIM "C"	DIM "D1 + D2"	DIM "E"	DIM "F"
UGB-STNLS	1 3/4"	10 1/8"	2 11/16"	2 7/8" - 3 7/8"	7"	2 3/4"

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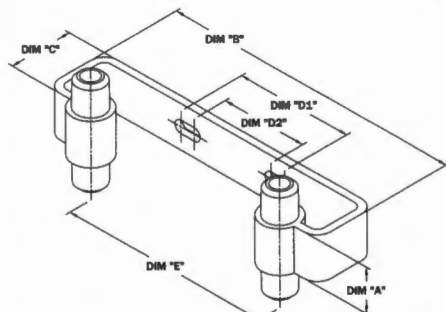
CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS XXX = ±.005 XX = ±.010 X = ±.015	D. MIDDLETON	03/22/04
D	FRACTIONAL X/4 = ±.1/4 X/8 = ±.1/8 X = ±.1/2		
C			
B			
A			

**CONERY**  
MFG. INC.

SPECIFICATION SHEET  
DIMENSIONAL DATA

SCALE	PART NO.
NONE	GUIDE BRACKET

NOTE: IGB-075-SS USED FOR 3" RAILS  
IGB-100-SS USED FOR 1" RAILS  
IGB-125-SS USED FOR 1 1/2" RAILS  
MOUNTING SLOTS ARE 9/16"



MODEL NO.	DIA. "A"	DIM "B"	DIM "C"	DIM "D1"	DIM "D2"	DIM "E"
IGB-075-SS	1 1/2"	10"	2 1/8"	3 7/8"	2 7/8"	7"
IGB-100-SS	1 1/2"	10"	2 1/8"	3 7/8"	2 7/8"	7"
IGB-125-SS	1 1/2"	10"	2 1/8"	3 7/8"	N/A	7"

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CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS XXX = ±.005 XX = ±.010 X = ±.015	D. MIDDLETON	12/15/04
D	FRACTIONAL X/4 = ±.1/4 X/8 = ±.1/8 X = ±.1/2		
C			
B			
A			

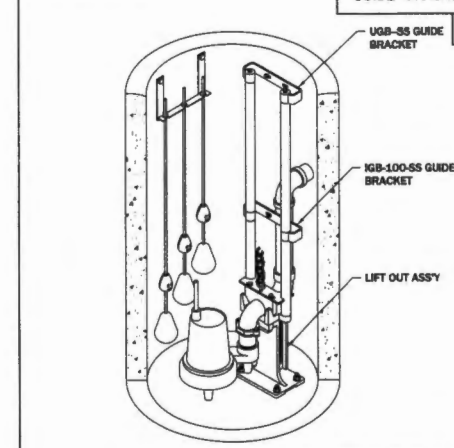
**CONERY**  
MFG. INC.

SPECIFICATION SHEET  
DIMENSIONAL DATA

SCALE	PART NO.
HALF	GUIDE BRACKET

TYPICAL APPLICATIONS

GUIDE BRACKET



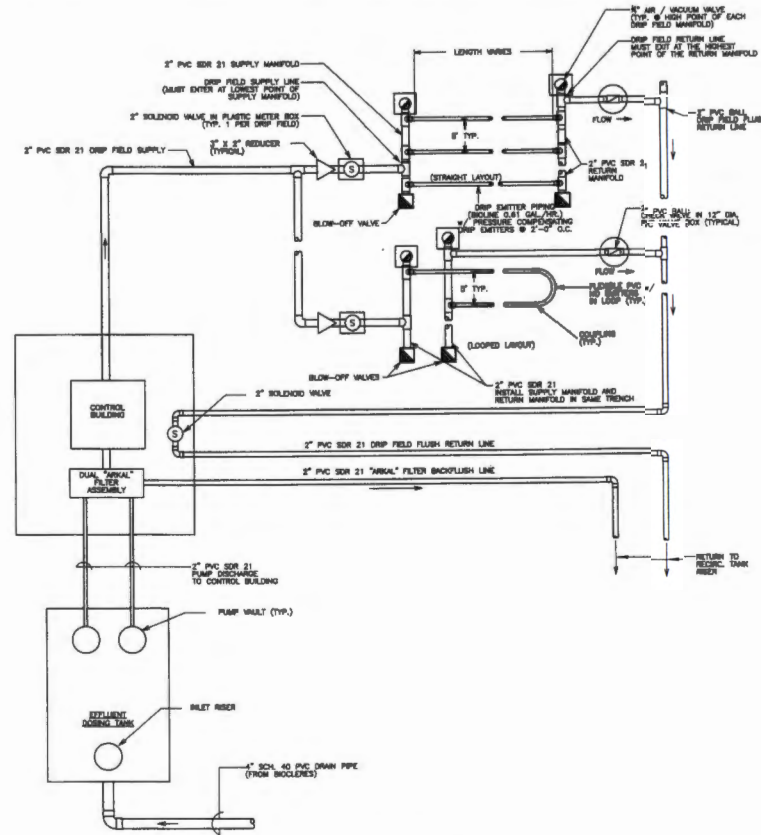
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CHANGES	TOLERANCES	DRAWN BY	DATE
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D	FRACTIONAL X/4 = ±.1/4 X/8 = ±.1/8 X = ±.1/2		
C			
B			
A			

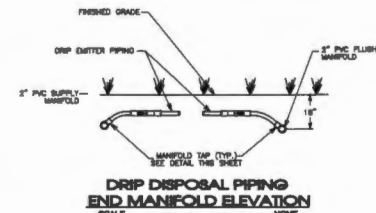
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SPECIFICATION SHEET  
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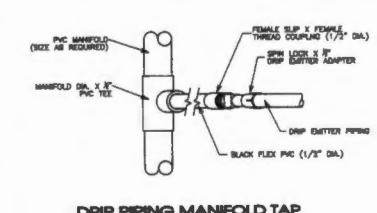
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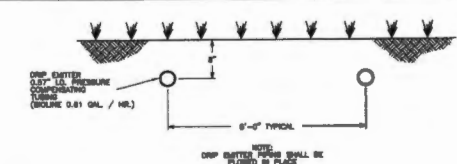
DRIP FIELD EFFLUENT DISPOSAL SCHEMATIC  
SCALE: NONE



DRIP DISPOSAL PIPING  
END MANIFOLD ELEVATION  
SCALE: NONE



DRIP PIPING MANIFOLD TAP  
SCALE: NONE



DRIP EMITTER PIPING  
SCALE: NONE

**SEC. Inc.**  
SITE ENGINEERING CONSULTANTS  
ENGINEERING  
LANDSCAPE ARCHITECTURE  
450 MIDTOWN TOWER BOULEVARD  
MEMPHIS, TENNESSEE 38119  
PHONE: (901) 948-7801  
FAX: (901) 948-7802  
WWW.SECINC.COM  
NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM SEC. INC.



College Grove Athletic Facility IF  
8445 Horton Hwy  
STEP System Design & Wastewater Site Plan  
Williamson County, Tennessee

REVISIONS:	
DATE: 12-15-2023	
CHECKED: JPM	
FILE NAME: 837220401STEP	
SCALE: N.T.S.	
JOB NO. 23722	
SHEET:	

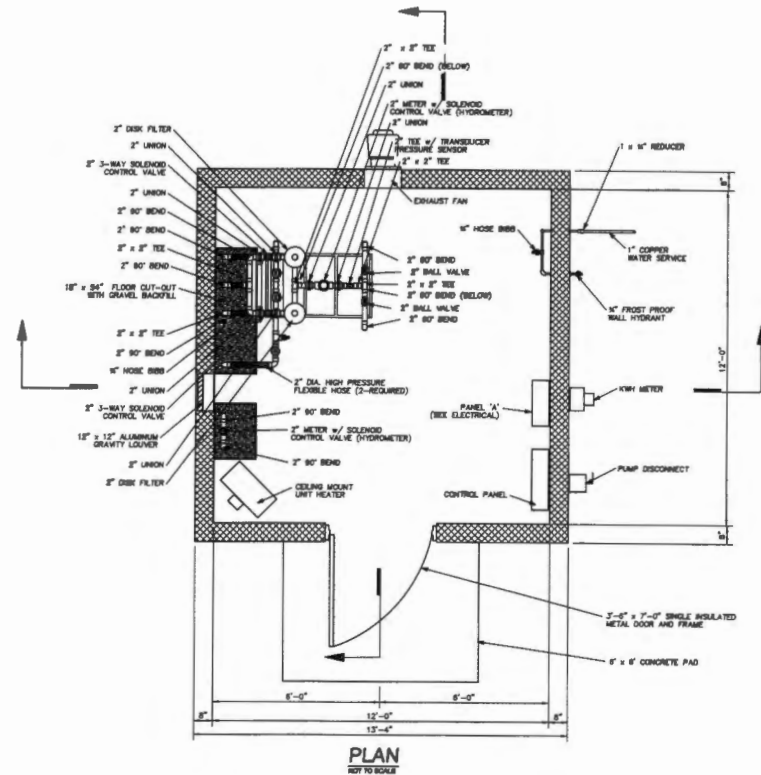
C6.4

Details

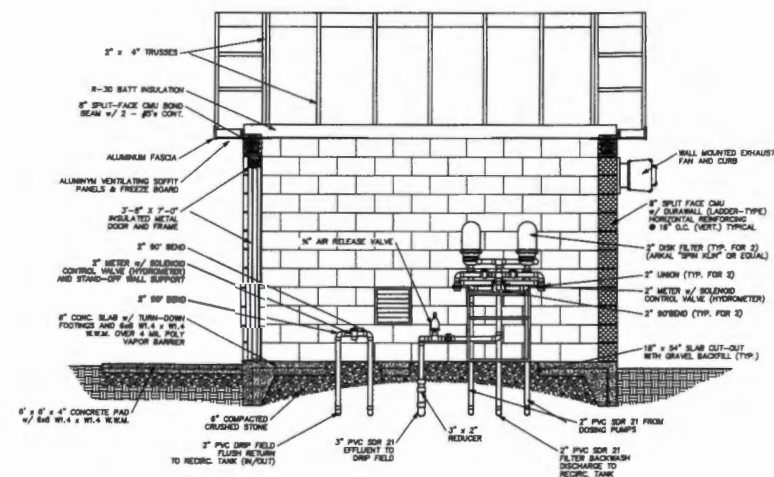
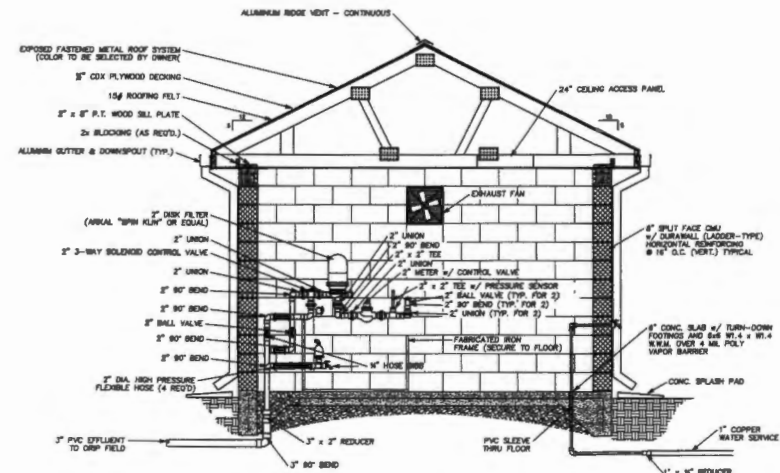








1. PIPING SHOWN IS FOR ONE (1) BIOCLUSE SYSTEM.
2. ALL BUILDING PRESSURE RATHER PIPING AND VALVES SHALL BE 1" SCH. 80 PVC.
3. CONTRACTOR SHALL LEAVE PIPE STUB-OUTS IN BUILDING IF FUTURE CONTROL BUILDINGS ARE PLANNED.
4. ALLOW SUFFICIENT SPACE BETWEEN WALL AND END OF CONTROL BUILDING FOR REMOVAL OF BULK.
5. FILTER UNITS AND CONTROL BUILDING TO BE SUPPORTED BY CUSTOM-BUILT 180 DEGREE BULK FRAME FRAMES TO BE PARTIED WITH TWO COTS BLACK BRASS. BRASS TO BE STURDY AND LEVEL.
6. STRUCTURAL CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF 4,000 PSI AT 28-DAYS.





FORM NO. 10-108 (Rev. 1-65) GSA GEN. REG. NO. 27

1. COMMENTS: NEW APPROVED SHOP DRAWING FOR POWER AIR COILS.  
RECOMMENDED FOR THE OFFICE OF THE CHIEF OF ENGINEERING.

**A. HANDLE OR RESPONSIBLE LOCK-OUT, TAG-OUT, LIFT INTERRUPTION**  
ENCLOSURE MUST BE EITHER EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT

Page 2 0000000000  
200 0000000000

5. FURNISH AND INSTALL COMPANY AND TEST FOR CORROSION AND STRESS CORROSION. SEE APPROPRIATE ELEMENTARY SHOP INSTRUCTIONS FOR LOCATION AND REQUIREMENTS.

OF STOCK, BONDS, AND OTHER SECURITIES. INVESTMENTS SHALL BE MADE IN PERFORMANCE AND ACCORDANCE TO THE POLICY LISTED.

4. PERSONAL AND BUSINESS CREDIT WORTH SUPPORT DOCUMENTS, FOR YOUR TYPE  
TYPE OR YOUR BUSINESS.

5. CONTRACT, RECENT ORDER, SUPPORT DOCUMENTS, ETC. AND TYPE TYPE, OR AS

6. NON-IDENTITY NUMBERING (LAMP)

7. OTHER INDEX - FILE START WITH AN INDEXING CODE BY COUNTRY.  
ELECTRIC OF FILING. (LAMP IS OPEN RECORDS WILL BE USED FOR OPEN USE.

2.04 DISPOSITION

A. PROVIDE LICENSEE PLATED TAGS FOR ALL PRELIMINARY AND SUBSEQUENT EXPOSURES. YOU SHALL COMPLETELY NOTIFY EXPOSURE MARKED OR CONTROLLED.

2.05 GENERAL

A. MODEL NUMBER AS SHOWN ON EXPOSURE

**GENERAL ELECTRICAL NOTES**

1. FURTHER CLASSIFY PERSONS KNOWN AT PRESENT AS WORKING  
ON EMPLOYMENT TO BE KNOWN FOR WORKING FOR MORE THAN AT PRESENT EMPLOYMENT  
AND KNOWN FOR MORE THAN AT PRESENT EMPLOYMENT. CLASSIFY PERSONS TO BE  
400 10/24/64

8. EXTERIOR LIGHTING FIXTURES SHALL BE 12 WATT COMPACT FLUORESCENT BALL  
TUBES, ELECTRIC GALLANT, REMOTE PHOTOCONTROL, ULTRAVIOLET RAY SHIELD OR  
EQUIVALENT. LIGHT FIXTURES AT 6'-0" ABOVE FLOOR WITH ONE FIXTURE OVER

[illegible]

— 0.05 g/100 g

— INDICATES NOT CONTROLLED BY WALL, CEILING, OR FLOOR



SCALE 1/4" = 1'-0"



**THE RESULTS**

---

SHUTTER/LOUVER SCHEDULE

GROUP, NO.	NAME	DATE OF BIRTH	IN	Q	U.S.A.	SECRETARY	WIFE	ADDRESS
1-1	IN BULGARIA	19	1914	1/1	1914	1914	1914	1914

\_\_\_\_\_

1

100