West Travis County Public Utility Agency
Wholesale Rate Study
January 11, 2019
Individual Capital Amortization Schedule

City of Dripping Springs (Eastern Service Area and New Discovery Golf Course)

Series 2013-2019 Debt Payment Schedule

Effective Interest Rate		3.78%
Capital Cost Allocation	$	1,412,544
Plus Reserves		80,600
Plus Issuance Costs (2%)		30,263
Capital Cost Allocation	$	1,543,407
Build-out LUEs		
Current LUEs (January 2019)	-	
Annual Payment per LUE	$	365
Effective Impact Fee Credit		19%

	Projected LUEs	Beginning Balance	Interest Expense	Subtotal	Total Annual Debt Payment	Ending Balance	Annual Minimum Bill Paid to PUA*	Monthly Minimum per LUE
2020	-	$ 1,543,407	$ 58,269	$ 1,601,676	$ 13,852	$ 1,587,824	$ 14,729.64	
2021	38	$ 1,587,824	$ 59,946	$ 1,647,770	$ 13,852	$ 1,633,918	$ 14,729.64	$ 32.30
2022	77	$ 1,633,918	$ 61,687	$ 1,695,604	$ 28,069	$ 1,667,535	$ 29,846.91	$ 32.30
2023	116	$ 1,667,535	$ 62,956	$ 1,730,491	$ 42,286	$ 1,688,205	$ 44,964.18	$ 32.30
2024	155	$ 1,688,205	$ 63,736	$ 1,751,941	$ 56,503	$ 1,695,439	$ 60,081.44	$ 32.30
2025	194	$ 1,695,439	$ 64,009	$ 1,759,448	$ 70,719	$ 1,688,728	$ 75,198.71	$ 32.30
2026	233	$ 1,688,728	$ 63,756	$ 1,752,484	$ 84,936	$ 1,667,548	$ 90,315.98	$ 32.30
2027	272	$ 1,667,548	$ 62,956	$ 1,730,504	$ 99,153	$ 1,631,351	$ 105,433.24	$ 32.30
2028	311	$ 1,631,351	$ 61,590	$ 1,692,941	$ 113,370	$ 1,579,571	$ 120,550.51	$ 32.30
2029	350	$ 1,579,571	$ 59,635	$ 1,639,205	$ 127,587	$ 1,511,619	$ 135,667.77	$ 32.30
2030	350	$ 1,511,619	$ 57,069	$ 1,568,688	$ 127,587	$ 1,441,101	$ 135,667.77	$ 32.30
2031	350	$ 1,441,101	$ 54,407	$ 1,495,508	$ 127,587	$ 1,367,922	$ 135,667.77	$ 32.30
2032	350	$ 1,367,922	$ 51,644	$ 1,419,566	$ 127,587	$ 1,291,979	$ 135,667.77	$ 32.30
2033	350	$ 1,291,979	$ 48,777	$ 1,340,756	$ 127,587	$ 1,213,169	$ 135,667.77	$ 32.30
2034	350	$ 1,213,169	$ 45,802	$ 1,258,971	$ 127,587	$ 1,131,384	$ 135,667.77	$ 32.30
2035	350	$ 1,131,384	$ 42,714	$ 1,174,098	$ 127,587	$ 1,046,512	$ 135,667.77	$ 32.30
2036	350	$ 1,046,512	$ 39,510	$ 1,086,022	$ 127,587	$ 958,435	$ 135,667.77	$ 32.30
2037	350	$ 958,435	$ 36,185	$ 994,619	$ 127,587	$ 867,033	$ 135,667.77	$ 32.30
2038	350	$ 867,033	$ 32,734	$ 899,766	$ 127,587	$ 772,180	$ 135,667.77	$ 32.30
2039	350	$ 772,180	$ 29,153	$ 801,332	$ 127,587	$ 673,746	$ 135,667.77	$ 32.30
2040	350	$ 673,746	$ 25,436	$ 699,182	$ 127,587	$ 571,595	$ 135,667.77	$ 32.30
2041	350	$ 571,595	$ 21,580	$ 593,175	$ 127,587	$ 465,589	$ 135,667.77	$ 32.30
2042	350	$ 465,589	$ 17,578	$ 483,166	$ 127,587	$ 355,580	$ 135,667.77	$ 32.30
2043	350	$ 355,580	$ 13,424	$ 369,004	$ 127,587	$ 241,417	$ 135,667.77	$ 32.30
2044	350	$ 241,417	$ 9,114	$ 250,532	$ 127,587	$ 122,945	$ 135,667.77	$ 32.30
2045	350	$ 122,945	$ 4,642	$ 127,587	$ 127,587	$ 0	$ 135,667.77	$ 32.30

**Annual minimum bill paid to PUA includes impact fee credit, plus times coverage requirements*

INFRAMARK
WATER & INFRASTRUCTURE SERVICES

February 20, 2019

Memorandum for: Aaron Reed

From: Jesse L. Kennis II

Subject: Weekly Operations Summary Week of 13 to 20 February 2019

Inframark LLC

14050 Summit Drive,
#113 Austin, TX 78728
United States

T: +1 512 246 0498
F: +1 512 716 0024

www.inframark.com

Below is a summary of operational activities:

1) **Wastewater Treatment Plant**
   a) We have purchased 200 waterproof connectors for the drip field wiring and will replace them. That work is scheduled for the last week of February.
   b) The Caliterra irrigation fields are operating at 60% capacity. The pond level has dropped 8" in the last week and 660,000 gallons of effluent have been irrigated onto the fields.
   c) The daily average flows to the drip fields the last few days is .075 MGD. There has not been any water sent to the pond.
2) **Drip Fields**
   a) Nothing significant to report.
3) **Collection System**
   a) Nothing significant to report.

CITY OF DRIPPING SPRINGS

ORDINANCE NO. 1725.01

WATER RATE ORDINANCE

AN ORDINANCE ESTABLISHING RETAIL WATER SERVICE RULES, RATES, AND POLICIES WITHIN THE CITY OF DRIPPING SPRINGS; AND PROVIDING FOR THE FOLLOWING: FINDINGS OF FACT; ENACTMENT; REPEALER; SEVERABILITY; CODIFICATION; EFFECTIVE DATE; AND PROPER NOTICE AND MEETING.

WHEREAS, the City of Dripping Springs has the authority under Chapter 552 of the Texas Local Government Code (the "Code") to purchase, construct, and operate a water utility system inside or outside the municipal boundaries and may regulate the system in a manner that protects the interests of the municipality; and

WHEREAS, the Wholesale Water Supply Agreement between the Lower Colorado River Authority (now the West Travis County Public Utility Agency or WTCPUA) and the City of Dripping Springs (Blue Blazes Service Property Amendment) (executed in 2003) allows the City to provide retail water service under certain circumstances; and

WHEREAS, the City desires to operate a water utility and provide retail water service; and

WHEREAS, the City has determined that providing retail water service in a manner the City deems necessary and as is described in "Attachment A" benefits the City and its residents.

NOW, THEREFORE, BE IT ORDAINED by the City Council of Dripping Springs, Texas:

1. FINDINGS OF FACT

The foregoing recitals are incorporated into this Ordinance by reference as findings of fact as if expressly set forth herein.

2. ENACTMENT

Chapter 20, Article 20.06 is added to the City of Dripping Springs Code of Ordinances in accordance with Attachment A, which is attached hereto and incorporated into this Ordinance for all intents and purposes. Any underlined text shall be inserted into the Code, as stated on Attachment A.

3. REPEALER

All ordinances, resolutions, or parts thereof, that are in conflict or inconsistent with any provision of this Ordinance, are hereby repealed to the extent of such conflict, and the provisions of this Ordinance shall be and remain controlling as to the matters regulated, herein.

4. SEVERABILITY

Should any of the clauses, sentences, paragraphs, sections or parts of this Ordinance be deemed invalid, unconstitutional, or unenforceable by a court of law or administrative agency with jurisdiction over the matter, such action shall not be construed to affect any other valid portion of this Ordinance.

5. CODIFICATION

The City Secretary is hereby directed to record and publish the attached rules, regulations and policies in the City's Code of Ordinances as authorized by Section 52.001 of the Texas Local Government Code.

6. EFFECTIVE DATE

This Ordinance shall be effective immediately upon passage.

7. PROPER NOTICE & MEETING

It is hereby officially found and determined that the meeting at which this Ordinance was passed was open to the public, and that public notice of the time, place and purpose of said meeting was given as required by the Open Meetings Act, Texas Government Code, Chapter 551. Notice was also provided as required by Chapter 52 of the Texas Local Government Code.

NOW THEREFORE, BE IT ORDAINED BY THE City Council of the City of Dripping Springs, Texas:

PASSED & APPROVED this, the 16th day of May 2017, by a vote of 5 (*ayes*) to 0 (nays) to (*abstentions*)

CITY OF DRIPPING SPRINGS

By: _____
Todd Purcell, Mayor

ATTEST:

Deborah L. Loesch
_____
Deborah L. Loesch, Deputy City Secretary

CHAPTER 20 UTILITIES

ARTICLE 20.06 RETAIL WATER SERVICE

ARTICLE 20.06 RETAIL WATER SERVICE

Division 1. Generally

Division 1. Generally

Sec. 20.06.001 Retail water service rules and policies

This article sets forth the city's rules and policies that apply to any retail water service that is provided by the city.

Division 1. Generally

Sec. 20.06.002 Definitions

The following words, terms and phrases, when used in this division, shall have the meanings ascribed to them in this article, except where the context clearly indicates a different meaning:

LCRA. The Lower Colorado River Authority.

MOU. That certain memorandum of understanding between LCRA and USFWS dated May, 2000.

New development. As that term is defined in the MOU.

TCEQ. The Texas Commission on Environmental Quality.

USFWS. The United States Fish and Wildlife Service.

WTCPUA. The West Travis County Public Utility Agency.

Division 1. Generally

Sec. 20.06.003 Initiation and continuation of retail water service

(a) The city has agreed by contract with its wholesale water provider to provide retail potable water utility service only in a manner that complies with the MOU. Any new development will only be provided with retail water service where the new development complies with:

(1) Measures approved by the USFWS through separate section 7 [sic] consultation, or other independent consultation;

(2) TCEQ optional enhanced measures, appendix A and appendix B to RG-348; or

(3) USFWS recommendations for Protection of Water Quality of the Edwards Aquifer dated September 1, 2000.

(b) As a condition to obtaining retail water service from the city, the landowner for any new development must provide for the development to the city an engineer's certification that the plat for the development contains enforceable restrictions against altering physical elements of any applicable water quality protection measures or alternatives, such as buffer zones and impervious cover, and the landowner must also provide an engineer's certification after completion of construction of a development or subdivision to ensure that the construction of the development or subdivision has been in accordance with the plat restrictions.

(c) All WTCPUA's service extension policies apply to retail water utility service provided by the city as if the WTCPUA were the retail service provider.

(d) The city hereby adopts by reference the same service availability and plumbing regulations as contained in the duly adopted WTCPUA tariff.

(Ordinance 1725.01 adopted 5/16/17)

Division 1. Generally

Sec. 20.06.004 Water rates and charges

(a) Applicability. These rates and charges are applicable to all sales or service of water within and outside the corporate limits of the city.

(b) Rates and charges. The city's rates and charges to customers for the sales or service of water shall consist of two parts: (i) base rates, (ii) Special charges, and (iii) administrative fee.

(1) Base rates. The city shall charge as its base rates the same rates, fees, and charges (including, but not limited to, water impact fees, connection fees, minimum monthly charges, capital charges, and volumetric charges), (A) that are charged to the city by its wholesale water provider, WTCPUA pursuant to WTCPUA tariff and policies for water service and all contracts with the WTCPUA, and (B) that are charged to the city by any service provider or contractor that is engaged by the city for to assist with the operation or maintenance of the city's retail water system. Except for special charges, all rates, charges, and fees imposed by the WTCPUA or by a city contractor providing services that allow the city to provide water service on the city will be passed through to each customer on a pro rata basis so that the city fully recoups from its retail customers the rates, fees, and charges that are billed to the city. The base rate will be shown separately on customer's water bill. Costs associated with water loss in the city's retail water system shall be allocated to retail customers on a pro rata basis.

(2) Special charges. Each retail water customer shall be responsible to pay costs incurred that are attributable to a specific retail customer or retail customer account (such as, but not limited to, returned check fees, disconnect charges, and resumption of service charges).

(3) Administrative fee. Except for wholesale water impact fees, the city shall charge an administrative fee calculated as a percentage of the sum of the base rates and special charges charged pursuant to subsection (b)(1) and (b)(2) above. The applicable percentage shall initially be six percent (6%) and periodically reviewed and revised, as appropriate. The administrative fee will be shown separately on customer's water bill.

(Ordinance 2019-26 adopted 8/20/19)

Division 1. Generally

Secs. 20.06.005–20.06.030 Reserved

ARTICLE 20.06 RETAIL WATER SERVICE

Division 2. Reclaimed Water

Division 2. Reclaimed Water

Sec. 20.06.031 Definitions

The following words, terms and phrases, when used in this division, shall have the meanings ascribed to them in this division, except where the context clearly indicates a different meaning:

Reclaimed water. Effluent owned or controlled by the city that is produced from the treatment of the city's wastewater through a wastewater treatment plant and treated to the standards required in 30 Texas Admin. Code § 210 et seq.

Reclaimed water system. The distribution, transmission and storage facilities designed to meet the requirements of 30 Texas Admin. Code § 210 et seq. as described in this division for the distribution of reclaimed water to users.

Users. Entities or individuals that purchase reclaimed water from the city through the city's reclaimed water system.

Division 2. Reclaimed Water

Sec. 20.06.032 Prohibitions

(a) It shall be unlawful to tap into, connect, or obtain reclaimed water from the reclaimed water system except in accordance with the terms of an executed reclaimed water use agreement with the city and this division.

(b) It shall be unlawful to use reclaimed water in a manner that violates this division or the rules and regulations of the Texas Commission on Environmental Quality.

Division 2. Reclaimed Water

Sec. 20.06.033 Construction standards for reclaimed water system

The reclaimed water system shall be constructed in accordance with the following standards:

(1) Transmission lines. Any reclaimed water transmission lines shall be constructed with a minimum separation from potable waterlines of nine feet whenever possible. When it is not possible to maintain such separation, the reclaimed waterlines shall be constructed in accordance with 30 Texas Admin. Code ch. 290 concerning separation of potable and nonpotable water piping. A nondegradable warning tape shall be placed in the trench above the pipe to reduce the possibility of inadvertent connections. Pipe used for the construction of any additional reclaimed waterlines shall be purple, covered with a purple polywrap bag, or marked with purple tape. Construction plans for any additional reclaimed waterlines shall be submitted to the Texas Commission on Environmental Quality for review and approval in accordance with 30 Texas Admin. Code § 210.25(h).

(2) Internal lines. Users shall be responsible for the design of any internal reclaimed water distribution piping or irrigation piping. The user shall design all piping in accordance with 30 Texas Admin. Code § 210.25.

(3) Storage ponds. All reclaimed water storage ponds shall be designed and constructed in accordance with 30 Texas Admin. Code § 210.25(c).

Division 2. Reclaimed Water

Sec. 20.06.034 User responsibilities

Reclaimed water users shall comply with the following requirements:

(1) Users shall post signs at all storage areas, hose bibs, faucets and other points of access to the reclaimed water that comply with the requirements of 30 Texas Admin. Code 210.25b.

(2) Users shall design all hose bibs, faucets, and valves in accordance with 30 Texas Admin. Code § 210.25a.

(3) Users shall ensure that irrigation activities occur during times that will minimize the risk of inadvertent human exposure.

(4) Users shall operate irrigation systems in a manner that will not cause any surface or airborne discharge of reclaimed water.

(5) Users shall not operate irrigation systems when the earth is frozen or saturated with water.

(6) Users shall utilize operational procedures for irrigation systems that will minimize wet grass conditions in unrestricted landscape areas during the periods the areas could be in use.

(7) Users shall maintain transmission mains, storage pond, pumping facilities and internal irrigation piping beyond the point of delivery.

(8) Users shall design a routine maintenance schedule that includes a routine check of the sprinkler heads, distribution piping, pumps, valves, and other mechanical equipment and shall conduct repairs as necessary. Preventive maintenance on all mechanical equipment shall be as specified by the manufacturer.

Division 2. Reclaimed Water

Sec. 20.06.035 Judicial enforcement remedies applicable to reclaimed water use

(a) Criminal penalty. Any person who has violated any provision of this division regarding the use of reclaimed water shall be strictly liable for such violation and shall, upon conviction, be subject to a fine of not more than $2,000.00 per violation per day.

(b) Pursuant to Texas Local Government Code section 552.0025, the compensation due to the city shall be a delinquent cost of providing utility services, and the city may impose a lien on the landowner's real property, unless the property is a homestead as protected by the state constitution.

(c) Remedies nonexclusive. The remedies provided for in this division are not exclusive of any other remedies that the city may have under state or federal law or other city ordinances. The city may take any, all, or any combination of these actions against a violator. The city is empowered to take more than one enforcement action against any violator. These actions may be taken concurrently.

(d) Supplemental enforcement action.

(1) Whenever a user has violated or continues to violate any provision of this division, reclaimed water service to the user may be severed. Service will only recommence, at the user's expense, after he has satisfactorily demonstrated his ability to comply.

(2) The misuse of reclaimed water in violation of this division is hereby declared a public nuisance and shall be corrected or abated as directed by the city public works director. Any person creating a public nuisance shall be subject to the provisions of this code governing such nuisances, including reimbursing the city for any costs, including but not limited to, attorneys fees and costs of court, incurred in removing, abating, or remedying said nuisance.

(3) In addition to prohibiting certain conduct by natural persons, it is the intent of this division to hold a corporation or association legally responsible for prohibited conduct performed by an agent acting on behalf of a corporation or association and within the scope of his office or employment.

(4) Any user that violates any provision of this division and thereby causes the city to violate a rule or regulation of the Texas Commission on Environmental Quality or any other state or federal agency, and as a consequence causes the city to incur any civil or criminal penalty, shall be liable to the city for the amount of any such civil or criminal penalty, as well as any costs of compliance with any order issued by the Texas Commission on Environmental Quality or any state or federal court and, additionally, any costs and/or attorneys fees incurred by the city in defense or compliance with such judicial or administrative action.

Division 2. Reclaimed Water

Secs. 20.06.036–20.06.060 Reserved

ARTICLE 20.06 RETAIL WATER SERVICE

Division 3. Water Connections

Division 3. Water Connections

Sec. 20.06.061 Definitions

The following words, terms and phrases, when used in this division, shall have the meanings ascribed to them in sections 20.06.062 through 20.06.068, except where the context clearly indicates a different meaning:

Air gap. The unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet conveying water or waste to a tank, plumbing fixture, receptor, or other assembly and the flood level rim of the receptacle. These vertical, physical separations must be at least twice the diameter of the water supply outlet, never less than one inch (25 millimeters).

Approved. Accepted by the authority responsible as meeting an applicable specification stated or cited in this division or as suitable for the proposed use.

Auxiliary water supply. Any water supply on or available to the premises other than the city's approved public water supply. These auxiliary waters may include water from another purveyor's public potable water supply or any natural source, such as a well, spring, river, stream, harbor, and so forth; used waters; or industrial fluids. These waters may be contaminated or polluted, or they may be objectionable and constitute an unacceptable water source over which the city does not have sanitary control.

Backflow. The undesirable reversal of flow in a potable water distribution system as a result of a cross connection.

Backflow preventer or backflow prevention assemblies. An assembly or means designed to prevent backflow.

Backpressure. A pressure, higher than the supply pressure, caused by a pump, elevated tank, boiler, or any other means that may cause backflow.

Backsiphonage. Backflow caused by negative or reduced pressure in the supply piping.

City administrator. The administrator of the city, and the agents, officers or employees of the city designated by the city administrator to be in charge of the water department of the city, and the designees of such agents and officers. The city administrator is invested with the authority and responsibility for the implementation of an effective cross-connection control program and for the enforcement of the provisions of this division. The city administrator may further, with the approval of the city council, designate the county health department as an agent authorized to enforce this division.

Contamination. An impairment of a potable water supply by the introduction or admission of any foreign substance that degrades the quality and creates a health hazard.

Cross connection. Connection or potential connection between any part of a potable water system and any other environment containing other substances in a manner that, under any circumstances would allow such substances to enter the potable water system. Other substances may be gases, liquids, or solids, such as chemicals, waste products, steam, water from other sources (potable or nonpotable), or any matter that may change the color or add odor to the water.

Cross-connection control by containment. The installation of any approved backflow prevention assembly at the water service connection to any customer's premises, where it is physically and economically unfeasible to find and permanently eliminate or control all actual or potential cross connections within the customer's water system; or the term "cross-connection control by containment" means the installation of an approved backflow prevention assembly on the service line leading to and supplying a portion of a customer's water system where there are actual or potential cross connections that cannot be effectively eliminated or controlled at the point of the cross connection.

Cross connections, controlled. A connection between a potable water system and a nonpotable water system with an approved backflow prevention assembly properly installed and maintained so that it will continuously afford the protection commensurate with the degree of hazard.

Double check valve assembly. The approved double check valve assembly consists of two internally loaded check valves, either spring loaded or internally weighted, installed as a unit between two tightly closing resilient-seated shutoff valves and fittings with properly located resilient-seated test cocks. This assembly shall only be used to protect against a nonhealth hazard (i.e., a pollutant).

Hazard, degree of. The term is derived from an evaluation of the potential risk to public health and the adverse effect of the hazard upon the potable water system.

Hazard, health. A cross connection or potential cross connection involving any substance that could, if introduced in the potable water supply, cause death, illness, spread disease, or have a high probability of causing such effects.

Hazard, nonhealth. A cross connection or potential cross connection involving any substance that generally would not be a health hazard but would constitute a nuisance or be aesthetically objectionable, if introduced into the potable water supply.

Hazard, plumbing. A plumbing-type cross connection in a consumer's potable water system that has not been properly protected by an approved air gap or an approved backflow prevention assembly.

Hazard, system. An actual or potential threat of severe damage to the physical properties of the public potable water system or the consumer's potable water system or of a pollution of contamination that would have a protracted effect on the quality of the potable water in the system.

Industrial fluids system. Any system containing a fluid or solution that may be chemical, biologically, or otherwise contaminated or polluted in a form or concentration, such as would constitute a health, system, pollution or plumbing hazard, if introduced into an approved water supply. The term "industrial fluids system" may include, but not be limited to:

(1) Polluted or contaminated waters;

(2) All types of process waters and used waters originating from the public potable water system that may have deteriorated in sanitary quality;

(3) Chemicals in fluid form;

(4) Plating acids and alkalies;

(5) Circulating cooling waters connected to an open cooling tower;

(6) Cooling towers that are chemically or biologically treated or stabilized with toxic substances; and/or

(7) Contaminated natural waters, such as wells, springs, streams, rivers, bays, harbors, seas, irrigation canals or systems, and so forth; oils, gases, glycerine, paraffins, caustic and acid solutions, and other liquid and gaseous fluids used in industrial or other purposes for firefighting purposes.

Pollution. The presence of any foreign substance in the water that tends to degrade its quality so as to constitute a nonhealth hazard or impair the usefulness of the water.

Reduced-pressure backflow prevention assembly. The approved reduced-pressure principle backflow prevention assembly consisting of two independently acting approved check valves together with a hydraulically operating, mechanically independent pressure differential relief valve located between the check valves and below the first check valve. These units are located between two tightly closing resilient-seated shutoff valves as an assembly and equipped with properly located resilient-seated test cocks.

Regulations. The provisions of any applicable ordinance, rule, regulation or policy.

Service connection. The terminal end of a service connection from the public potable water system, that is, where the water purveyor loses jurisdiction and sanitary control over the water at its point of delivery to the customer's water system. The term "service connection" means, if a meter is installed at the end of the service connection, the downstream end of the meter. There should be no unprotected takeoffs from the service line ahead of any meter or backflow prevention assembly located at the point of delivery to the customer's water system. The term "service connection" also includes water service connections from the public potable water system.

Water, nonpotable. Water that is not safe for human consumption or that is of questionable quality.

Water, potable. Water that is safe for human consumption as described by the public health authority having jurisdiction.

Water, used. Any water supplied by a water purveyor from a public potable water system to a consumer's water system after it has passed through the point of delivery and is no longer under the sanitary control of the water purveyor.

Division 3. Water Connections

Sec. 20.06.062 Purpose

The purpose of sections 20.06.061 through 20.06.068 of this division is the following:

(1) Protect public water. To protect the public potable water supply of the city from the possibility of contamination or pollution by isolation within the customer's internal distribution system or the customer's private water system such contaminants or pollutants that could backflow into the public water system;

(2) Eliminate cross connections. To promote the elimination or control of existing cross connections, actual or potential, between the customer's in-plant potable water system and nonpotable water systems, plumbing fixtures, and industrial piping systems; and

(3) Continuing program. To provide for the maintenance of a continuing program of cross-connection control that will systematically and effectively prevent the contamination or pollution of all potable water systems.

Division 3. Water Connections

Sec. 20.06.063 Prohibitions and enforcement

(a) General. No water service connection shall be made to any establishment where a potential or actual contamination hazard exists unless the water supply is protected in accordance with the Texas Commission on Environmental Quality rules and regulations for public water systems (the Texas Commission on Environmental Quality rules) and this division. The city shall discontinue water service if a required backflow prevention assembly is not installed, maintained and tested in accordance with the Texas Commission on Environmental Quality rules and this division.

(b) Enforcement. The city administrator shall be responsible for the enforcement of the Texas Commission on Environmental Quality rules and this division for the protection of the public potable water distribution system from contamination or pollution due to the backflow of contaminants or pollutants through the water service connection. If, in the judgment of the city administrator an approved backflow prevention assembly is required (at the customer's water service connection; or, within the customer's private water system) for the safety of the water system, the city administrator or his designated agent shall give notice in writing to said customer to install such an approved backflow prevention assembly at specific locations on his premises. The customer shall immediately install such approved assembly at his own expense; and, failure, refusal, or inability on the part of the customer to install, have tested, and maintain said assembly shall constitute grounds for discontinuing water service to the premises until such requirements have been satisfactorily met.

Division 3. Water Connections

Sec. 20.06.064 Water system–Composition

(a) The water system shall be considered as made up of two parts: the utility system and the customer system.

(b) The utility system shall consist of the source facilities and the distribution system, and shall include all those facilities of the water system under the complete control of the utility, up to the point where the customer's system begins.

(c) The source shall include all components of the facilities utilized in the production, treatment, storage, and delivery of water to the distribution system.

(d) The distribution system shall include the network of conduits used for the delivery of water from the source to the customer's system.

(e) The customer's system shall include those parts of the facilities beyond the termination of the utility distribution system that are utilized in conveying utility-delivered domestic water to points of use.

Division 3. Water Connections

Sec. 20.06.065 Requirements for connection

(a) Protection required. No water service connection to any premises shall be installed or maintained by the city unless the water supply is protected as required by the Texas Commission on Environmental Quality rules and this division. Service of water to any premises shall be discontinued by the city if a backflow prevention assembly required by this division is not installed, tested, and maintained, or if it is found that a backflow prevention assembly has been removed, bypassed, or if an unprotected cross connection exists on the premises. Service will not be restored until such conditions or defects are corrected.

(b) Customer's system. The customer's system should be open for inspection at all reasonable times to authorized representatives of the city to determine whether cross connections or other structural or sanitary hazard, including violations of these regulations, exist. When such a condition becomes known, the city administrator shall deny or immediately discontinue service to the premises by providing for a physical break in the service line until the customer has corrected the conditions in conformance with state, provincial and city statutes relating to plumbing and water supplies and the regulations adopted pursuant thereto.

(c) Location. An approved backflow prevention assembly shall be installed on each service line to a customer's water system at or near the property line or immediately inside the building being served; but in all cases, before the first branch line leading off the service line wherever the following conditions exist:

(1) In the case of premises having an auxiliary water supply that is not or may not be of safe bacteriological or chemical quality and that is not acceptable as an additional source by the city administrator, the public water system shall be protected against backflow from the premises by installing an approved backflow prevention assembly in the service line, appropriate to the degree of hazard.

(2) In the case of premises on which any industrial fluids or any other objectionable substances are handled in such a fashion as to create an actual or potential hazard to the public water system, the public system shall be protected against backflow from the premises by installing an approved backflow prevention assembly in the service line, appropriate to the degree of hazard. This shall include the handling of process waters and waters originating from the utility system that have been subject to deterioration in quality.

(3) In the case of premises having:

(A) Internal cross connections that cannot be permanently corrected and controlled; or

(B) Intricate plumbing and piping arrangements or where entry to all portions of the premises is not readily accessible for inspection purposes, making it impracticable or impossible to ascertain whether or not dangerous cross connections exist;

the public water system shall be protected against backflow from the premises by installing an approved backflow prevention assembly in the service line.

(4) In all cases where such device is required by the Texas Commission on Environmental Quality rules.

(d) Type of assembly required. The type of protective assembly required under subsections (c)(1), (2) and (3) of this section shall depend upon the degree of hazard that exists, as follows:

(1) In the case of any premises where there is an auxiliary water supply as stated in subsection (c)(1) of this section and it is not subject to any of the following rules, the public water system shall be protected by an approved air gap separation or an approved reduced-pressure principle backflow prevention assembly.

(2) In the case of any premises where there is water or substance that would be objectionable but not hazardous to health, if introduced into the public water system, the public water system shall be protected by an approved double check valve assembly.

(3) In the case of any premises where there is any material dangerous to health that is handled in such a fashion as to create an actual or potential hazard to the public water system, the public water system shall be protected by an approved air gap separation or an approved reduced-pressure principle backflow prevention assembly. Examples of premises where these conditions will exist include sewage treatment plants, sewage pumping stations, chemical manufacturing plants, hospitals, mortuaries, and plating plants.

(4) In the case of any premises where there are uncontrolled cross connections, whether actual or potential, the public water system shall be protected by an approved air gap separation or an approved reduced-pressure principle backflow prevention assembly at the service connection.

(5) In the case of any premises where, because of security requirements or other prohibitions or restrictions, it is impossible or impracticable to make a complete in-plant cross-connection survey, the public water system shall be protected against backflow from the premises by either an approved air gap separation or an approved reduced-pressure principle backflow prevention assembly on each service to the premises.

(6) In the case of any premises where, in the opinion of the city administrator, an undue health threat is posed because of the presence of extremely toxic substances, the city administrator may require an air gap at the service connection to protect the public water system. This requirement will be at the discretion of the city administrator and is dependent on the degree of hazard.

(7) In any case where the Texas Commission on Environmental Quality rules require a backflow prevention device or other provision to prevent contamination, the requirements of the Texas Commission on Environmental Quality rules shall govern and control if more stringent than the provisions of this subsection.

(e) Standards for approved device. Any backflow prevention assembly required herein shall be a model and size in compliance with the Texas Commission on Environmental Quality rules, and approved by the city administrator. The term "approved backflow prevention assembly" means an assembly that has been manufactured in full conformance with the standards established by the American Water Works Association titled: AWWA C510-89, Standard for Double Check Valve Backflow Prevention Assembly, and AWWA C511-89, Standard for Reduced-Pressure Principle Backflow Prevention Assembly, and have met completely the laboratory and field performance specifications of the Foundation for Cross-Connection Control and Hydraulic Research of the University of Southern California established by Specification of Backflow Prevention Assemblies, section 10 of the most current issue of the Manual of Cross-Connection Control. The American Water Works Association and Foundation for Cross-Connection Control and Hydraulic Research standards and specifications have been adopted by the city administrator. Final approval shall be evidenced by a certificate of approval issued by an approved testing laboratory certifying full compliance with said American Water Works Association standards and Foundation for Cross-Connection Control and Hydraulic Research specifications. The backflow preventers approved and certified by the Texas Commission on Environmental Quality, or an agency certified by the Texas Commission on Environmental Quality to approve and certify such devices. Backflow preventers that may be subjected to backpressure or backsiphonage that have been fully tested and have been granted a certificate of approval by said qualified laboratory and are listed on the laboratory's current list of approved backflow prevention assemblies may be used without further testing or qualification.

(f) Customer inspections mandated. It shall be the duty of the customer-user at any premises where backflow prevention assemblies are installed to have certified inspections and operational tests made at least once per year. In those instances where the city administrator deems the hazard to be great enough, certified inspections may be required at more frequent intervals. These inspections and tests shall be at the expense of the water user and shall be performed by the assembly manufacturer's representative, water department personnel, or by a certified tester approved by the city administrator. It shall be the duty of the city administrator to see that these tests are made in a timely manner. The customer-user shall notify the city administrator in advance when the tests are to be undertaken so that the customer-user may witness the tests if so desired. These assemblies shall be repaired, overhauled, or replaced at the expense of the customer-user whenever said assemblies are found to be defective. Records of such tests, repairs, and overhaul shall be kept and made available to the city administrator.

(g) Compliance with West Travis County Public Utility Agency Requirements. Customers must comply with any applicable rules or regulations of the West Travis County Public Utility Agency.

Division 3. Water Connections

Sec. 20.06.066 General installation and testing requirements

(a) Installation. All backflow prevention assemblies shall be tested upon installation by a recognized backflow prevention assembly tester and certified to be operating within specifications. Backflow preventers which are installed to provide protection against health hazards must also be tested and certified to be operating with specifications at least annually by a recognized backflow prevention assembly tester.

(b) Installation and testing requirements. All backflow prevention assemblies shall be installed and tested in accordance with the manufacturer's instructions, the American Water Works Association's Recommended Practice for Backflow Prevention and Cross-Connection Control (Manual M14) or the University of Southern California Manual of Cross-Connection Control.

(c) Replacement. Backflow preventers shall be repaired, overhauled, or replaced at the expense of the customer whenever said assemblies are found to be defective. The original documentation of each such test, repair, and overhaul shall be kept and submitted to the city within five working days of the test, repair or overhaul of each backflow prevention assembly.

(d) Removal and replacement. No backflow prevention assembly or device shall be removed from use, relocated, or other assembly or device substituted without the approval of the city. Whenever an existing assembly or device is moved from its location or cannot be repaired, the backflow assembly or device shall be replaced with a backflow prevention assembly or device that complies with this division, the American Water Works Association's Recommended Practice for Backflow Prevention and Cross-Connection Control (Manual M14), the University of Southern California Manual of Cross-Connection Control, or the current plumbing code of the city, whichever is more stringent.

(e) Test equipment. Test gauges used for backflow prevention assembly testing shall be calibrated at least annually in accordance with the American Water Works Association's Recommended Practice for Backflow Prevention and Cross-Connection Control (Manual M14), or the University of Southern California Manual of Cross-Connection Control. The original calibration form must be submitted to the city within five working days after calibration.

(f) Certification. A backflow prevention assembly tester must hold a current endorsement from the Texas Commission on Environmental Quality.

Division 3. Water Connections

Sec. 20.06.067 Customer service inspections

(a) Inspection required. A customer service inspection shall be completed prior to providing continuous water service to all new construction, or any existing service when the city has reason to believe that cross connections or other contaminant hazards exist, or after any material improvement, correction, or addition to the private water distribution facilities.

(b) Qualified inspectors. Only persons with the following credentials shall be recognized as capable of conducting a customer service inspection:

(1) Plumbing inspectors and water supply protection specialists that have been licensed by the state board of plumbing examiners.

(2) Certified waterworks operators, and members of other water related professional groups who have completed a training course, passed an examination administered by the Texas Commission on Environmental

Quality or its designated agent, and hold a current endorsement issued by the Texas Commission on Environmental Quality.

(c) Required certifications. No direct connection between the city water system and a potential source of contamination is permitted. Potential sources of contamination shall be isolated from the public water system by a properly installed air gap or an appropriate backflow prevention assembly. The water service shall be discontinued unless the qualified inspector that inspects the customer's water system certifies that:

(1) There is no direct connection between the city water system and a potential source of contamination.

(2) No cross connection between the public water supply and the private water source exists. Where an actual properly installed air gap is not maintained between the public water supply and the private water supply, the inspector must certify that an approved reduced pressure-zone backflow prevention assembly is properly installed and a service agreement exists for annual inspecting and testing by a recognized backflow prevention assembly tester.

(3) No connection exists which allows water to be returned to the public drinking water supply.

(4) No pipe or pipefitting which contains more than eight percent lead is used for installation or repair of plumbing at any connection that provides water for human use.

(5) No solder or flux which contains more than 0.2 percent lead is used for the installation or repair of plumbing at any connection that provides water for human use. A minimum of one lead test shall be performed for each inspection.

Division 3. Water Connections

Sec. 20.06.068 Amendment and application

The plumbing code of the city is hereby amended to the extent required to be read and construed in a manner to give effect to this division. In the event of a conflict between this division and any other ordinance or law, the most restrictive standard applies.

(Ordinance 1725.01 adopted 5/16/17)

Attachment #2 – TCEQ requests for approval

PWS_1050208_CO_20191024_Status
CN602491284
RN110874146

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 24, 2019

New owner/proposed letter/1050208
ROBERT CALLEGARI
DRIFTWOOD GOLF AND RANCH CLUB
PO BOX 384
DRIPPING SPRINGS, TX 78620-0384

Received
OCT 30 2019
City of Dripping Springs

Subject: **Information for a Proposed Public Water System**
DRIFTWOOD GOLF AND RANCH CLUB - PWS ID 1050208
HAYS County, Texas

Dear Water System Official:

The Public Drinking Water Section has assigned a public water system identification number (PWS ID) to the proposed project submitted by your engineer to our Texas Commission on Environmental Quality (TCEQ) Utilities Technical Review Team at some time in the past. The seven digit number can be found in the second line of the subject or on the top right corner of this letter. Please refer to this number in any correspondence or conversations with TCEQ with respect to public drinking water activities.

Your system is classified as a COMMUNITY public water system at this time. Though it may be many months or several years until your project is completed, approved by TCEQ, and meets the definition of an active PWS, we would like this opportunity to introduce you to the regulatory requirements under the authority of the TCEQ. A water system that provides drinking water to **15 connections or 25 people** is a PWS by rule, please refer to 30 Texas Administrative Code (TAC) Chapter 290.38. You must let us know when your project reaches either of these numbers. At that time we will activate your PWS and you will be subject to all the rules and regulations applicable for your type of water system.

The TCEQ assigns PWS ID numbers in order to track public health matters; **such assignment does not imply approval of the system.** Please note that any modifications to your water system require you to submit new plans and specifications to TCEQ for approval.

We have prepared this list which provides information on design, operations, maintenance, and monitoring, reporting, public notice protocols for public water supplies and opportunities for assistance. Included are the following guidance links:

- Drinking Water Watch Database, used to view data currently stored by TCEQ for a PWS - https://www.tceq.texas.gov/goto/dww
- TCEQ Central Registry Database, used to search your customer and regulated entity as well as any permits you may have - http://www15.tceq.texas.gov/crpub/

- TCEQ Core Data Form, complete a Core Data Form if ownership for this PWS is incorrect or changes - http://www.tceq.texas.gov/permitting/central_registry/
- New Public Water System - https://www.tceq.texas.gov/drinkingwater/newsystems.html
- Operating a Public Water System - http://www.tceq.texas.gov/drinkingwater/index.html
- Environmental Laboratory Accreditation - https://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html or https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/txnelap_lab_list.pdf
- Public Water System Monitoring Plan - http://www.tceq.texas.gov/drinkingwater/monitoring_plans/monitoring_plans.html
- Residual Disinfectant Reporting for Public Water Systems - http://www.tceq.texas.gov/drinkingwater/disinfection/dl_qor
- Public Notice Language for Drinking Water Contaminants - https://www.tceq.texas.gov/drinkingwater/chemicals/public_notices
- Location map/contact information for TCEQ Regional offices - http://www.tceq.texas.gov/about/directory/maps_index.html

Public water systems in Texas can receive free, on-site help with financial, managerial, and technical topics. The TCEQ's Financial, Managerial, and Technical (FMT) Assistance Program utilizes qualified contractors to assist newly-activated public water systems with understanding TCEQ rules, avoiding rule compliance violations, achieving adequate disinfection, and submitting monthly operating reports. Additional or follow up on site FMT assistance may be requested at any time and at no cost to the system. Please email FMT@tceq.texas.gov or call Ms. Jessika Gunn-Reece at (512) 239-5278 for more information, including a list of available assistance topics, or to request FMT assistance.

If your water system inventory or ownership information is incorrect, documentation concerning data or legal ownership must be submitted to the Public Drinking Water Section Inventory team by email address at PWSInven@tceq.texas.gov. Failure to do so is a violation of 30 TAC Section 290.46(p).

Sincerely,

Michele Risko, Manager
Drinking Water Special Functions Section
Water Supply Division
Texas Commission on Environmental Quality

MR/CF/db

PWS_1050208_CO_20191029_Plan Ltr

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 29, 2019

Mr. Dennis Lozano, P.E.
Murfee Engineering Company, Inc.
1101 Capital of Texas Hwy., South, Bldg. D, Ste. 110
Austin, TX 78746

Re: Driftwood Golf and Ranch Club - Public Water System ID No. 1050208
Proposed Interconnect with West Travis County PUA (WTCPUA) to serve Driftwood Golf and Ranch Club (DGRC)
Engineer Contact Telephone: (512) 327-9204
Plan Review Log No. P-08302019-187
Hays County, Texas

CN: 602491284; RN: 110874146

Dear Mr. Lozano:

On August 30, 2019, the Texas Commission on Environmental Quality (TCEQ) received planning material for the proposed interconnect. Based on our review, the project generally meets the minimum requirements of Title 30 Texas Administrative Code (TAC) Chapter 290 - Rules and Regulations for Public Water Systems and is **approved for construction.**

We note the following:

- DGRC to be served under direct pressure.
- Distribution system for DGRC by future contract.

The submittal consisted of engineering drawings, technical specifications, engineering summary and **wholesale contract between the City of Dripping Springs and WTCPUA** to serve the DGRC (350 connections). **The proposed project consists of:**

- Interconnect with WTCPUA with 300 linear feet of 12-inch AWWA C151 CL250 ductile iron pipe, meter vault and backflow preventer.

This approval is for the construction of the above listed items only. Any wastewater components contained in this design were not considered.

The project is located at the intersection of FM 1826 and FM 967 in Hays County.

An appointed engineer must notify the TCEQ's Region 11 Office in Austin at (512) 339-2929 when construction will start. Please keep in mind that upon completion of the water works project, the engineer or owner will notify the commission's Water Supply Division, in writing, as to its completion and attest to the fact that the completed work is substantially in accordance with the plans and change orders on file with the commission as required in 30 TAC §290.39(h)(3).

Please refer to the Plan Review Team's Log No. **P-08302019-187** in all correspondence for this project.

Please complete a copy of the most current Public Water System Plan Review Submittal form for any future submittals to TCEQ. Every blank on the form must be completed to minimize any delays in the review of your project. The document is available on TCEQ's website at the address shown below. You can also download the most current plan submittal checklists and forms from the same address.

https://www.tceq.texas.gov/drinkingwater/udpubs.html

For future reference, you can review part of the Plan Review Team's database to see if we have received your project. This is available on TCEQ's website at the following address:

https://www.tceq.texas.gov/drinkingwater/planrev.html/#status

You can download the latest revision of 30 TAC Chapter 290 - Rules and Regulations for Public Water Systems from this site.

If you have any questions, please contact John Lock at (512)239-4710 or by email at john.lock@tceq.texas.gov or by correspondence at the following address:

Plan Review Team, MC-159
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Sincerely,

John Lock, P.E.
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

Vera Poe, P.E., Team Leader
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

VP/JL/db

cc: City of Dripping Springs, P.O. Box 384, Dripping Springs, TX 78620
WTCPUA, 12117 Bee Cave Rd., Bldg. 3, 120, Bee Caves, TX 78738

bcc: TCEQ Central Records PWS File 1050208 (Driftwood Golf and Ranch Club/ P-08302019-187)
TCEQ Central Records PWS File 2270235
TCEQ Region No. 11 Office - Austin
TCEQ PWSINV, MC-155

PWS_1050208_CO_20200103_Plan Ltr

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 3, 2020

Ms. Tricia S. Tichenor-Altamirano, P.E.
Tricia Altamirano Consulting Engineer, Inc.
1101 Capital of Texas Highway South, Building D, Suite 210
Austin, TX 78746

Re: Driftwood Golf and Ranch Club - Public Water System ID No. 1050208
Proposed Distribution System Improvements for Driftwood Phase 1, Section 2
Engineer Contact Telephone: (512) 328-2203
Plan Review Log No. P 11052019-039
Hays County, Texas

CN: 602491284; RN: 110874146

Dear Ms. Tichenor Altamirano:

On November 5, 2019, the Texas Commission on Environmental Quality (TCEQ) received planning material with your letter dated September 9, 2019 for the proposed distribution system improvements for Driftwood Phase 1, Section 2. Based on our review of the information submitted, the project generally meets the minimum requirements of Title 30 Texas Administrative Code (TAC) Chapter 290 - Rules and Regulations for Public Water Systems and is **conditionally approved for construction** if the project plans and specifications meet the following requirement:

- Dechlorination of disinfecting water shall be in strict accordance with current American Water Works Association (AWWA) Standard C655-09 or most recent.

The submittal consisted of 32 sheets of engineering drawings and technical specifications. The approved project consists of:

- Approximately 4,374 linear feet of 8-inch, AWWA Standard C-900, Dimension Ratio 18, polyvinyl chloride pipe; and

- Various valves, fittings, and appurtenances.

This approval is for the construction of the above listed items only. Any wastewater components contained in this design were not considered.

The Driftwood Golf and Ranch Club public water supply system provides water treatment.

The Driftwood Phase 1, Section 2 project is located along Thurman Roberts Way, in Hays County, Texas.

An appointed engineer must notify the TCEQ's Region 11 Office in Austin at (512) 339-2929 when construction will start. Please keep in mind that upon completion of the water works project, the engineer or owner will notify the commission's Water Supply Division, in writing, as to its completion and attest to the fact that the completed work is substantially in accordance with the plans and change orders on file with the commission as required in 30 TAC §290.39(h)(3).

Please refer to the Plan Review Team's Log No. **P-11052019-039** in all correspondence for this project.

Please complete a copy of the most current Public Water System Plan Review Submittal form for any future submittals to TCEQ. Every blank on the form must be completed to minimize any delays in the review of your project. The document is available on TCEQ's website at the address shown below. You can also download the most current plan submittal checklists and forms from the same address.

https://www.tceq.texas.gov/drinkingwater/udpubs.html

For future reference, you can review part of the Plan Review Team's database to see if we have received your project. This is available on TCEQ's website at the following address:

https://www.tceq.texas.gov/drinkingwater/planrev.html/#status

You can download the latest revision of 30 TAC Chapter 290 - Rules and Regulations for Public Water Systems from this site.

If you have any questions concerning this letter or need further assistance, please contact Mr. Romulus Atanasiu at (512) 239 2288 or by email at romulus.atanasiu@tceq.texas.gov or by correspondence at the following address:

Plan Review Team, MC 159
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Sincerely,

Jonathan Pi, P.E.
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

for

Vera Poe, P.E., Team Leader
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

VP JPI/ra/sg

cc: Driftwood Golf and Ranch Club, Attn: Mr. Todd Purcell, P.O. Box 384, Dripping Springs, TX 78620-0384

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 3, 2020

Ms. Tricia S. Tichenor-Altamirano, P.E.
Tricia Altamirano Consulting Engineer, Inc.
1101 Capital of Texas Highway South, Building D, Suite 210
Austin, TX 78746

Re: Driftwood Golf and Ranch Club Public Water System ID No. 1050208
Proposed Distribution System Improvements for Driftwood Phase 1, Section 1 and Driftwood Development
Engineer Contact Telephone: (512) 328-2203
Plan Review Log No. P 11052019 038
Hays County, Texas

CN: 602491284; RN: 110874146

Dear Ms. Tichenor Altamirano:

On November 5, 2019, the Texas Commission on Environmental Quality (TCEQ) received planning material with your letter dated September 9, 2019 for the proposed distribution system improvements for Driftwood Phase 1, Section 1 and Driftwood Development. Based on our review of the information submitted, the project generally meets the minimum requirements of Title 30 Texas Administrative Code (TAC) Chapter 290 - Rules and Regulations for Public Water Systems and is **conditionally approved for construction** if the project plans and specifications meet the following requirements:

1. The hydrostatic leakage rate for polyvinyl chloride (PVC) pipe or ductile iron pipe and appurtenances shall not exceed the amount allowed or recommended by formulas in American Water Works Association (AWWA) Standard C605 or C600, respectively, as required by 30 TAC §290.44(a)(5). Please ensure that the formula for this calculation is correct and in use;

$$Q = \frac{LD\sqrt{P}}{148{,}000}$$

Where:
Q = the quantity of makeup water, in gallons per hour;
L = the length of the pipe section being tested, in feet;
D = the nominal diameter of the pipe, in inches; and
P = the average test pressure during the hydrostatic test, in pounds per square inch.

2. Dechlorination of disinfecting water shall be in strict accordance with current AWWA standard C655-09 or most recent.

The submittal consisted of 24 sheets of engineering drawings and technical specifications. The approved project consists of:

Driftwood Phase 1, Section 1

- 4,341 linear feet of 8-inch, AWWA Standard C-900, Dimension Ratio (DR) 18, polyvinyl chloride (PVC) pipe; and,
- Various valves, fittings, and appurtenances.

Driftwood Development

- 6,397 linear feet of 12-inch, AWWA Standard C 900, DR18, PVC;
- 2,539 linear feet of 8-inch, AWWA Standard C-900, DR18, PVC; and,
- Various valves, fittings, and appurtenances.

This approval is for the construction of the above listed items only. Any wastewater components contained in this design were not considered.

The Driftwood Golf and Ranch Club public water supply system provides water treatment.

The Driftwood Phase 1, Section 1 project is located along Thurman Roberts Way and Maile Crossing and the Driftwood Development project is located northeast of the intersection of Farm to Market (FM) Road 1826 and FM 967, in Hays County, Texas.

An appointed engineer must notify the TCEQ's Region 11 Office in Austin at (512) 339 2929 when construction will start. Please keep in mind that upon completion of the water works project, the engineer or owner will notify the commission's Water Supply Division, in writing, as to its completion and attest to the fact that the completed work is substantially in accordance with the plans and change orders on file with the commission as required in 30 TAC §290.39(h)(3).

Please refer to the Plan Review Team's Log No. **P-11052019-038** in all correspondence for this project.

Please complete a copy of the most current Public Water System Plan Review Submittal form for any future submittals to TCEQ. Every blank on the form must be completed to minimize any delays in the review of your project. The document is available on TCEQ's website at the address shown below. You can also download the most current plan submittal checklists and forms from the same address.

https://www.tceq.texas.gov/drinkingwater/udpubs.html

For future reference, you can review part of the Plan Review Team's database to see if we have received your project. This is available on TCEQ's website at the following address:

https://www.tceq.texas.gov/drinkingwater/planrev.html/#status

You can download the latest revision of 30 TAC Chapter 290 - Rules and Regulations for Public Water Systems from this site.

If you have any questions concerning this letter or need further assistance, please contact Mr. Romulus Atanasiu at (512) 239 2288 or by email at romulus.atanasiu@tceq.texas.gov or by correspondence at the following address:

Plan Review Team, MC-159
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Sincerely,

Jonathan Pi, P.E.
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

For

Vera Poe, P.E., Team Leader
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

VP/JPI/ra/sg

cc: Driftwood Golf and Ranch Club, Attn: Mr. Todd Purcell, P.O. Box 384, Dripping Springs, TX 78620-0384

Attachment #3 – List of water supply service providers within a 2-mile radius

CCN #13207
West Travis County Public Utility Agency
12117 Bee Cave Rd., Bldg 3, Ste. I20
Austin, TX 78738

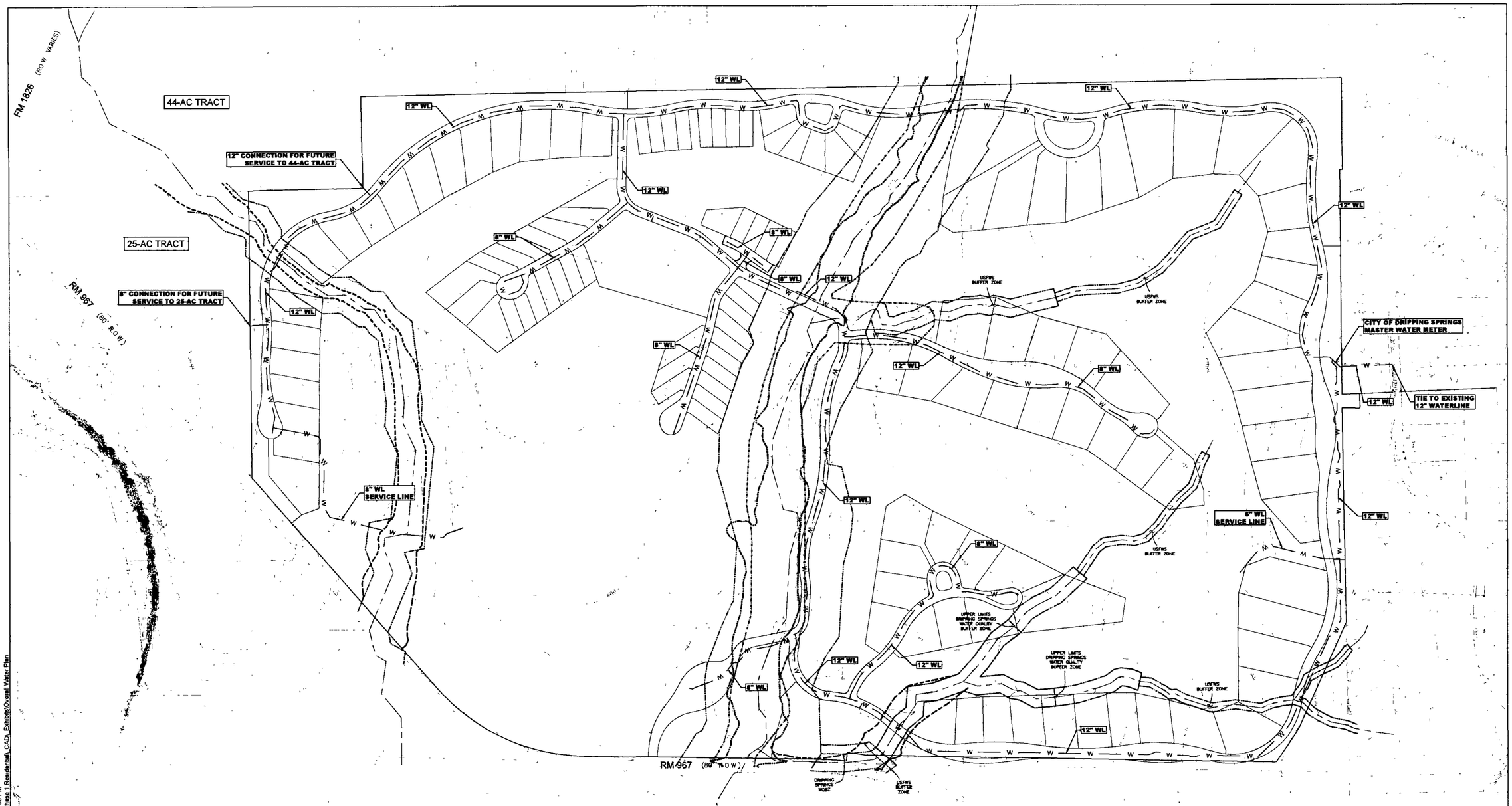
CCN #12239
Goldenwood West WSC
26550 Ranch Road 12 Unit 1
Dripping Springs, TX 78620

CCN #12413
Radiance WSC
108 Royal Way Ste 1006
Austin, TX 78737

CCN #12920
Southwest Liquids Inc.
1600 Stagecoach Ranch Road
Dripping Springs, TX 78620

CCN #10315
Dripping Springs WSC
101 Hays Street, Suite 416
Dripping Springs, TX 78620

Attachment #4 – Map of proposed and existing facilities



LEGEND

- W — PROPOSED WATERLINE
- FEMA FLOODPLAIN (100-YR)
- BEST AVAILABLE FLOODPLAIN (100-YR)
- FULLY DEVELOPED FLOODPLAIN (100-YR)
- CITY OF DRIPPING SPRINGS AND U.S. FISH AND WILDLIFE SERVICE WATER QUALITY BUFFER ZONE (SAME EXCEPT WHERE NOTED)

250' 125' 0 250'
Approximate Scale in Feet

N

PLOT DATE: Tuesday, November 19, 2019 2:31:50 PM
FILE PATH: W:\Driftwood\Driftwood Ranch\DR Phase 1 Residential_CAD_Exhibits\Overall Water Plan

NO	DESCRIPTION	BY	DATE

DESIGNED BY KWM/ JKB
DRAWN BY JKB
CHECKED BY KWM/ JKB
APPROVED BY KWM
DATE November 13, 2019

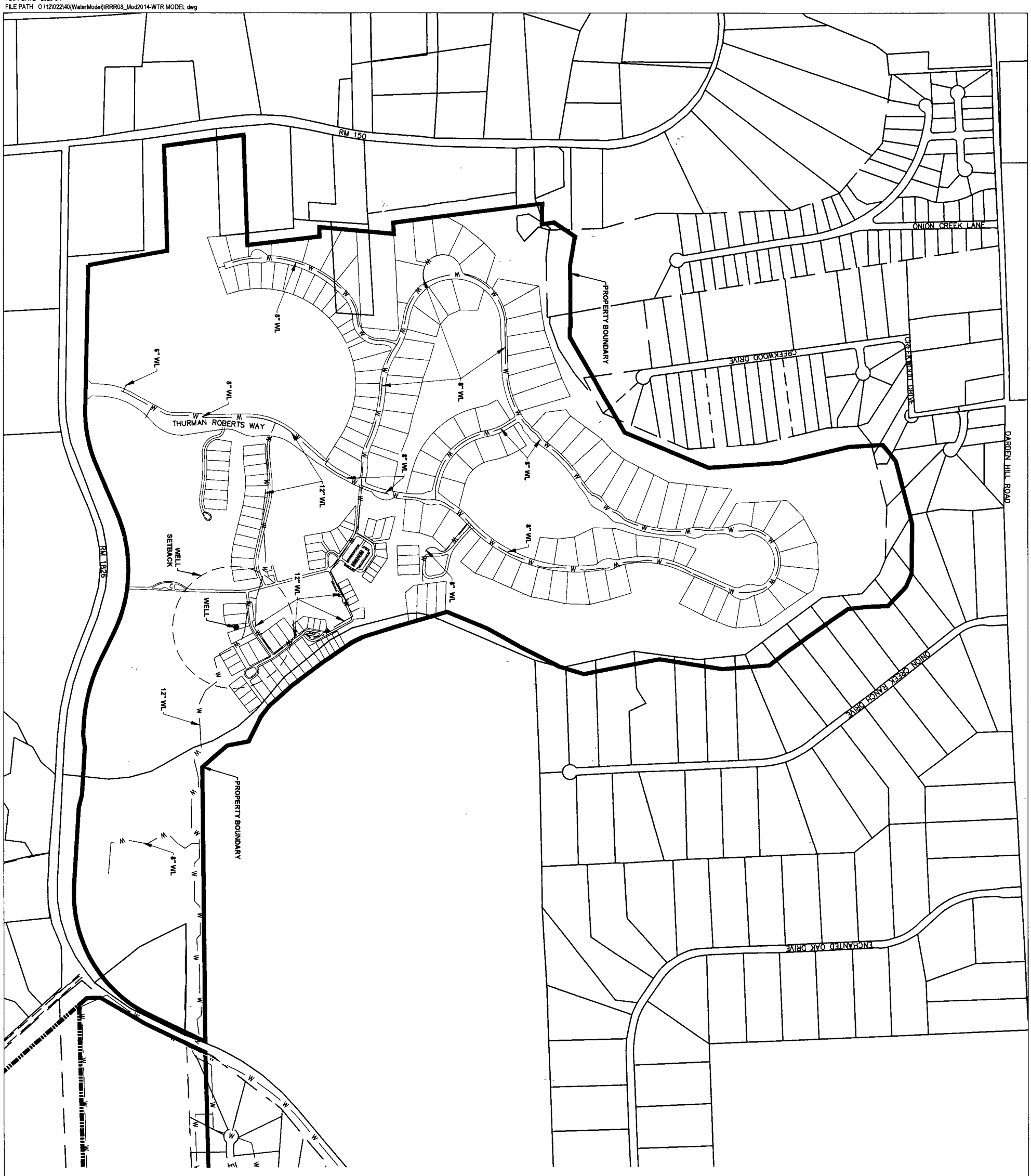
MEC
MURFEE ENGINEERING COMPANY
1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
Texas Registered Engineering Firm F-353

DRIFTWOOD GOLF AND RANCH CLUB
RANCH TRACT

OVERALL WATER MASTERPLAN

SHEET NO 1 OF 1
FILE NO
JOB NO 18004 100

PLOT DATE 2020-5-7
FILE PATH O:\12\022140(WaterModel)\RRR08_Mod2014-WTR MODEL.dwg



DESIGNED BY	KWM
DRAWN BY	RRB
CHECKED BY	KWM
APPROVED BY	KWM
DATE	5/7/2020
FILE NO	RRR08_Mod2014-WTR MODEL.dwg
JOB NO	18 004 10
SHEET NO	1 OF 1

MURFEE ENGINEERING COMPANY
1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
Texas Registered Engineering Firm F-353

DRIFTWOOD CREEK

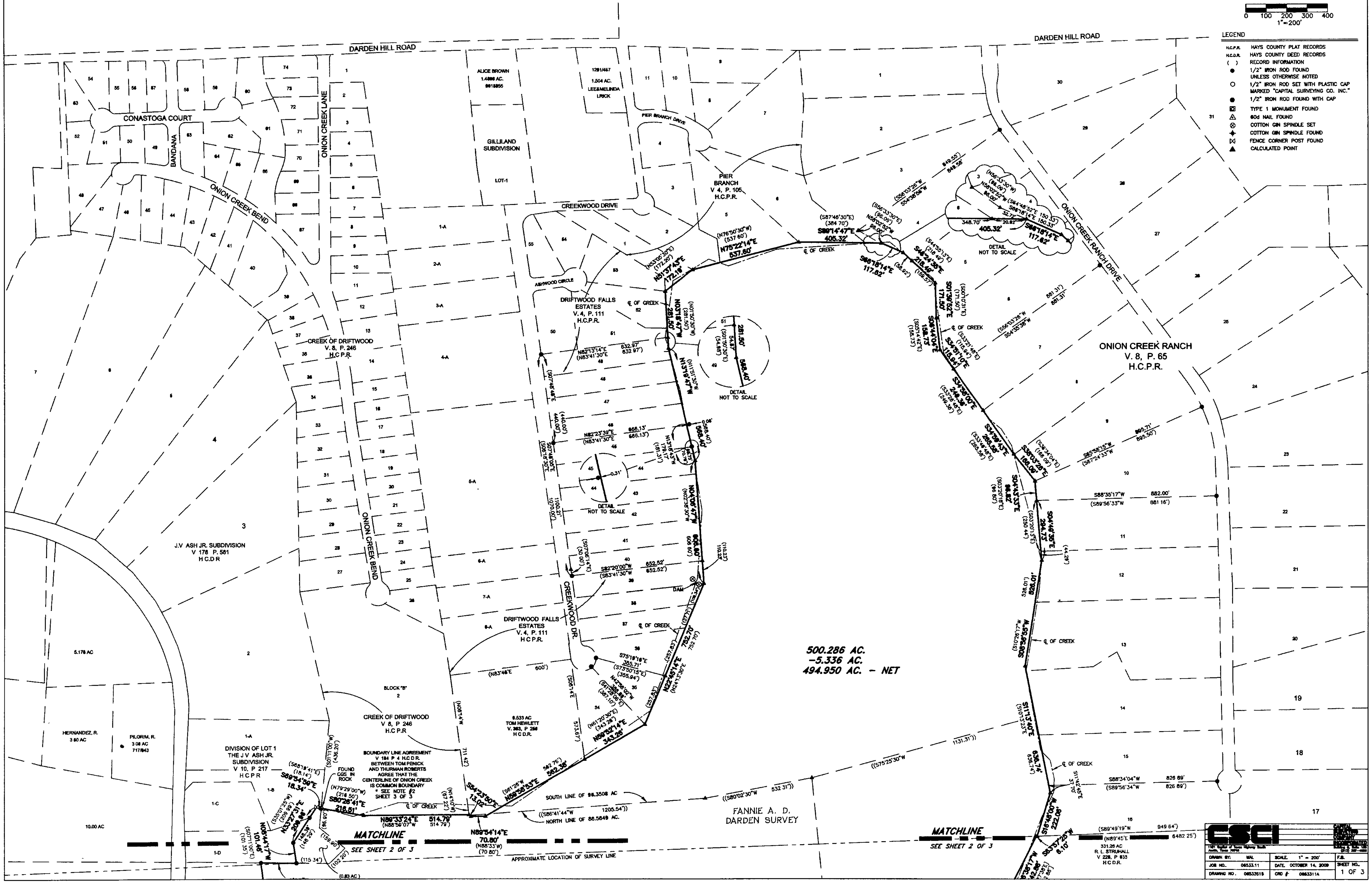
HAYS COUNTY, TEXAS

WATER SCHEMATIC

NO	DESCRIPTION	BY	DATE

Attachment #5 – Metes and bounds surveys and maps of the requested area

MAP OF DRIFTWOOD ECONOMIC DEVELOPMENT MUNICIPAL DISTRICT
HAYS COUNTY, TEXAS



MAP OF DRIFTWOOD ECONOMIC DEVELOPMENT MUNICIPAL DISTRICT
HAYS COUNTY, TEXAS

SEE SHEET 1 OF 3 MATCHLINE

SEE SHEET 1 OF 3 MATCHLINE

APPROXIMATE LOCATION OF SURVEY LINE

FREELOVE WOODY SURVEY No 23

TRACT II
100 AC
MASA SCOTT ROBERTS
V. 966 P 677
AND DESCRIBED IN
V 168, P. 156
H.C.D.R

TRACT III
288 AC.
MASA SCOTT ROBERTS
V. 168, P. 196
H.C.D.R

331.26 AC.
R. L. STRUHALL
V. 226, P. 633
H.C.D.R.

SAVE AND EXCEPT
5.336 AC,
5.2 AC
CHRISTELLA ALBERADO
V 302, P 464
H.C.D.R.

500.286 AC.
-5.336 AC.
494.950 AC. - NET

POINT OF BEGINNING
500.286 AC.

FM 150 (80' R.O.W.)

FM 1826 (80' R.O.W.)

24' WIDE ROADWAY EASEMENT RESERVED ADJACENT TO NORTH LINE OF 10.283 ACRE TRACT
V 346, P 207
V 346, P 210
H.C.D.R.

WEST LINE OF 100 ACRES
V. 301, P. 865
H.C.D.R.

DRIFTWOOD
V. 14

DEED LINE FOR 331.28 AC. TRACT

DOUBLE FENCE

¢ OF CREEK

MARAH DRIVE

"SOUTHERLY DIRECTION" 438 vrs = 1216.67' DEED LINE V 168 P. 156

DEED LINE V 135 P. 38

DETAIL NOT TO SCALE

DETAIL NOT TO SCALE

DETAIL NOT TO SCALE

DETAIL NOT TO SCALE

DETAIL NOT TO SCALE

T-DOT ¢ CURVE DATA
Δ=4°03'
D=1°00'
R=5729.58'
A=405.0'

¢ CURVE DATA
Δ=01°34'
D=1°00'
R=5729.58'
A=156.7'

¢ CURVE DATA
Δ=24°24'
D=5°00'
R=1145.92'
A=488.0'

¢ CURVE DATA
Δ=49°34'
D=5°00'
R=1225.92'
A=991.3'

¢ CURVE DATA
Δ=22°46'
D=4°00'
R=1432.39'
A=569.2'

LEGEND

H.C.P.R.	HAYS COUNTY PLAT RECORDS
H.C.D.R.	HAYS COUNTY DEED RECORDS
( )	RECORD INFORMATION
[ ]	RECORD INFORMATION – V.226 P 633
●	1/2" IRON ROD FOUND UNLESS OTHERWISE NOTED
○	1/2" IRON ROD SET WITH PLASTIC CAP MARKED "CAPITAL SURVEYING CO INC"
●	1/2" IRON ROD FOUND WITH CAP
⊠	TYPE 1 MONUMENT FOUND
△	60d NAIL FOUND
⊗	COTTON GIN SPINDLE SET
⊙	5/8" IRON PIPE FOUND
✦	COTTON GIN SPINDLE FOUND IN ROCK
⋈	FENCE CORNER POST FOUND
▲	CALCULATED POINT

0 100 200 300 400
1"=200'

CSCI
CAPITAL SURVEYING COMPANY, INC.
1100 Eagle's Nest Boone North, Austin, Texas 78746

DRAWN BY:	WAL	SCALE:	1" = 200'
JOB NO.:	085311	DATE:	OCTOBER 14 2008
DRAWING NO.:	085311S	ORD #:	085311A

F.B.
SHEET NO
2 OF 3

MAP OF DRIFTWOOD ECONOMIC DEVELOPMENT MUNICIPAL DISTRICT HAYS COUNTY, TEXAS

331 26 AC
R L. STRUHALL
V 226, P. 633
H.C D.R

TRACT III
288 AC.
MASA SCOTT ROBERTS
V. 168, P. 196
H.C.D.R.

AREA IN CONFLICT
0.2317 ACRES

DEED LINE FOR 331 26 AC TRACT

DEED LINE FOR 331 26 AC. TRACT

DEED LINE FOR 44 1134 AC TRACT AND LOT LINE FOR SALT LICK SUBDIVISION

SURVEY LINE IS DEED LINE FOR 331 26 AC. TRACT V. 226, P. 633 H.C.D.R.

DETAIL NOT TO SCALE

WEST LINE OF 100 ACRES V. 301, P. 865 H.C.D.R.

SALTLICK SUBDIVISION No. 1 V. 10 P. 125 H.C.P.R.

LOT 1 (8 883 AC.)

(44.1134 AC.) DRIFTWOOD EQUITIES, LTD V 1433, P. 776 H C.D.R.

500.286 AC.
-5.336 AC.
494.950 AC. - NET

SEE SHEET 2 OF 3

MATCHLINE

CAMP BEN MCCOLLOCH
37.50 AC.
151/136

LOT-1
12.21 AC

LOT-2
11.25 AC

LOT-3
10.39 AC

LOT-4
10 12 AC

AMENDED GRAND CYPRESS AT ONION CREEK

FM 1826 (80' R.O.W.)

FM 967 (80' R.O.W.)

FLINT ROCK LOOP (60' R.O.W.)

SOUTHERN SUNSET COVE 'C' (60' R.O.W.)

RIM ROCK PH.2 SEC 3

1060 214 AC.
LSM RANCH, LTD.
V. 1628, P 206
H.C.D R

GOVERNMENTAL, UTILITY, INSTITUTIONAL & PARK

POINT OF BEGINNING
44.1722 AC.

44.1722 AC.
100 ACRES
MASA SCOTT ROBERTS
V. 301 P. 865
H.C.D.R.

REMAINDER OF 700.03 ACRES
JOHN RICHARD RUTHERFORD
V.1214 P.548
H.C.D.R

60d NAIL FOUND IN FENCE POST AT THE SOUTHWEST CORNER OF THE 535.13 ACRE TRACT
V 685, P. 203, H.C.D.R
REFERENCE A 1/2" IRON ROD N00°59'18"W, 1039.04'

TRACT 196

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8 LOT 9 LOT 10 LOT 11 LOT 12 LOT 13 LOT 14 LOT 15 LOT 16 LOT 17 LOT 18 LOT 19 LOT 20 LOT 21 LOT 22 LOT 23 LOT 24 LOT 25 LOT 26 LOT 27 LOT 28 LOT 29 LOT 30 LOT 31 LOT 32 LOT 33 LOT 34 LOT 35 LOT 36 LOT 37 LOT 38 LOT 39 LOT 40 LOT 41 LOT 42 LOT 43 LOT 44 LOT 45 LOT 46 LOT 47 LOT 48 LOT 49 LOT 50 LOT 51 LOT 52 LOT 53 LOT 54 LOT 55 LOT 56 LOT 57 LOT 58 LOT 59 LOT 60 LOT 61 LOT 62 LOT 63 LOT 64 LOT 65 LOT 66 LOT 67 LOT 68 LOT 69 LOT 70 LOT 71 LOT 72 LOT 73 LOT 74 LOT 75

0 100 200 300 400
1"=200'

LEGEND

H.C.P.R.	HAYS COUNTY PLAT RECORDS
H.C.D.R.	HAYS COUNTY DEED RECORDS
( )	RECORD INFORMATION
[ ]	RECORD INFORMATION – V 226 P.633
●	1/2" IRON ROD FOUND UNLESS OTHERWISE NOTED
○	1/2" IRON ROD SET WITH PLASTIC CAP MARKED "CAPITAL SURVEYING CO INC."
●	1/2" IRON ROD FOUND WITH CAP
⊠	TYPE 1 MONUMENT FOUND
△	60d NAIL FOUND
⊗	COTTON GIN SPINDLE SET
⊙	5/8" IRON PIPE FOUND
✦	COTTON GIN SPINDLE FOUND
⋈	FENCE CORNER POST FOUND
⊠	1/2" IRON ROD FOUND WITH CAP MARKED "KC ENGINEERING"
▲	CALCULATED POINT

MAP OF DISTRICT PREPARED FROM INFORMATION CONTAINED IN THE ACTUAL SURVEYS PREPARED BY CAPITAL SURVEYING CO. INC., COMPLETED IN MARCH, 2007 NO EFFORT WAS MADE TO UPDATE TO CURRENT INFORMATION

THIS DOCUMENT WAS PREPARED UNDER 22TAC663.21, AND DOES NOT REFLECT THE RESULTS OF A CURRENT ON THE GROUND SURVEY, AND IS NOT TO BE USED TO CONVEY OR ESTABLISH INTERESTS IN REAL PROPERTY EXCEPT THOSE RIGHTS AND INTERESTS IMPLIED OR ESTABLISHED BY THE CREATION OR RECONFIGURATION OF THE BOUNDARY OF THE POLITICAL SUBDIVISION FOR WHICH IT WAS PREPARED.

WITNESS MY HAND AND SEAL at Austin, Travis County, Texas thes the 14th day of October, 2009, A.D.

STATE OF TEXAS
REGISTERED
JERRY FULTS
1999
PROFESSIONAL
LAND SURVEYOR

JERRY FULTS
Registered Professional Land Surveyor
No 1999 – State of Texas

BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE GRID BEARINGS BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83 (HARN) DATUM, SOUTH CENTRAL ZONE. DERIVED BY GLOBAL POSITIONING SYSTEMS SURVEYS.

GENERAL NOTES

1) THE BOUNDARY ALONG THE CENTER OF ONION CREEK IS BASED ON THE RECORD INFORMATION OF THE ADJOINING SUBDIVISIONS AND TRACTS BY LOCATION OF THE AVAILABLE CONTROLLING MONUMENTATION OF SAID SUBDIVISIONS AND TRACTS. (ALMOST ALL ADJOINERS AND THE SUBJECT TRACTS CALL FOR THIS BOUNDARY AS UNMONUMENTED)

2) THE BOUNDARY LINE AGREEMENT IN VOLUME 184, PAGE 4 OF THE HAYS COUNTY DEED RECORDS ESTABLISHES THE CENTER OF ONION CREEK AS THE AGREED BOUNDARY LINE IN THE AREA OF THE 0 83 ACRE TRACT

CSCI
CAPITAL SURVEYING COMPANY, INCORPORATED
1101 Capital of Texas Highway South, Building C, Suite 100, Austin, Texas 78746, 512 327-4006

DRAWN BY: MAL	SCALE: 1" = 200'	F.B.
JOB NO.: 06533 11	DATE: OCTOBER 14, 2008	SHEET NO.: 3 OF 3
DRAWING NO.: 06533S15	CRD #: 0653311A	

SURVEY OF 394.112 ACRES OUT OF THE FREELOVE WOODY SURVEY No.23, HAYS COUNTY, TEXAS

TITLE COMMITMENT NOTE.

THIS SURVEY WAS PREPARED USING THAT INFORMATION CONTAINED IN SCHEDULE "B", OF THE TITLE REPORT FURNISHED BY SOUTHWESTERN TITLE COMPANY, GF No. 99-0138 DATED MAY 5, 1999 AND SHOWS THE INFORMATION CONTAINED THEREIN WITH THE FOLLOWING EXCEPTIONS AND/OR CLARIFICATIONS:

9d) PIPELINE EASEMENT GRANTED TO UNITED PRODUCERS PIPE LINE COMPANY, DATED JULY 21, 1928, EXECUTED BY M.B.D. INGLEHART, RECORDED IN VOLUME 97, PAGE 9, DEED RECORDS OF HAYS COUNTY, TEXAS. (BLANKET TYPE) [UNABLE TO LOCATE]

9e) EASEMENTS RESERVED IN DEED FROM W.I. KUYKENDALL AND WIFE, HELEN KUYKENDALL TO J.E. GREENSHAW, DATED 4/16/43, RECORDED IN VOLUME 128, PAGE 457, DEED RECORDS OF HAYS COUNTY, TEXAS. (BLANKET TYPE) [DOES NOT AFFECT]

9f) ROAD EASEMENT RIGHTS RESERVED IN DEED RECORDED IN VOLUME 138, PAGE 602, DEED RECORDS OF HAYS COUNTY, TEXAS. (BLANKET TYPE) [DOES NOT AFFECT]

9g) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 4/30/53, EXECUTED BY A. MINOR JAMES, RECORDED IN VOLUME 157, PAGE 45 DEED RECORDS OF HAYS COUNTY, TEXAS. [AS SHOWN]

9h) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 6/18/53, EXECUTED BY MRS. LOIS J. HOWARD, RECORDED IN VOLUME 157, PAGE 47, DEED RECORDS OF HAYS COUNTY, TEXAS. [AS SHOWN]

9i) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 5/7/53, EXECUTED BY J.R. WILHELM, RECORDED IN VOLUME 157, PAGE 48, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

9j) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 5/19/53, EXECUTED BY J.E. GREENSHAW, RECORDED IN VOLUME 157, PAGE 49, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

9k) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 5/14/53, EXECUTED BY E.R.L. WADE, RECORDED IN VOLUME 157, PAGE 50, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

9l) CHANNEL EASEMENT GRANTED TO THE STATE OF TEXAS, DATED 2/19/55, EXECUTED BY MRS. LOIS J. HOWARD, ET AL, RECORDED IN VOLUME 163, PAGE 554, DEED RECORDS OF HAYS COUNTY, TEXAS. [AS SHOWN]

9m) RIGHT OF WAY EASEMENT EXECUTED BY ASHBY M. JAMES, ET AL TO THE STATE OF TEXAS, DATED 6/11/56, RECORDED IN VOLUME 166, PAGE 181, DEED RECORDS OF HAYS COUNTY, TEXAS. (BLANKET TYPE) [DOES NOT AFFECT]

9o) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 6/18/71, EXECUTED BY MICHAEL GILES RUTHERFORD, RECORDED IN VOLUME 243, PAGE 952, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

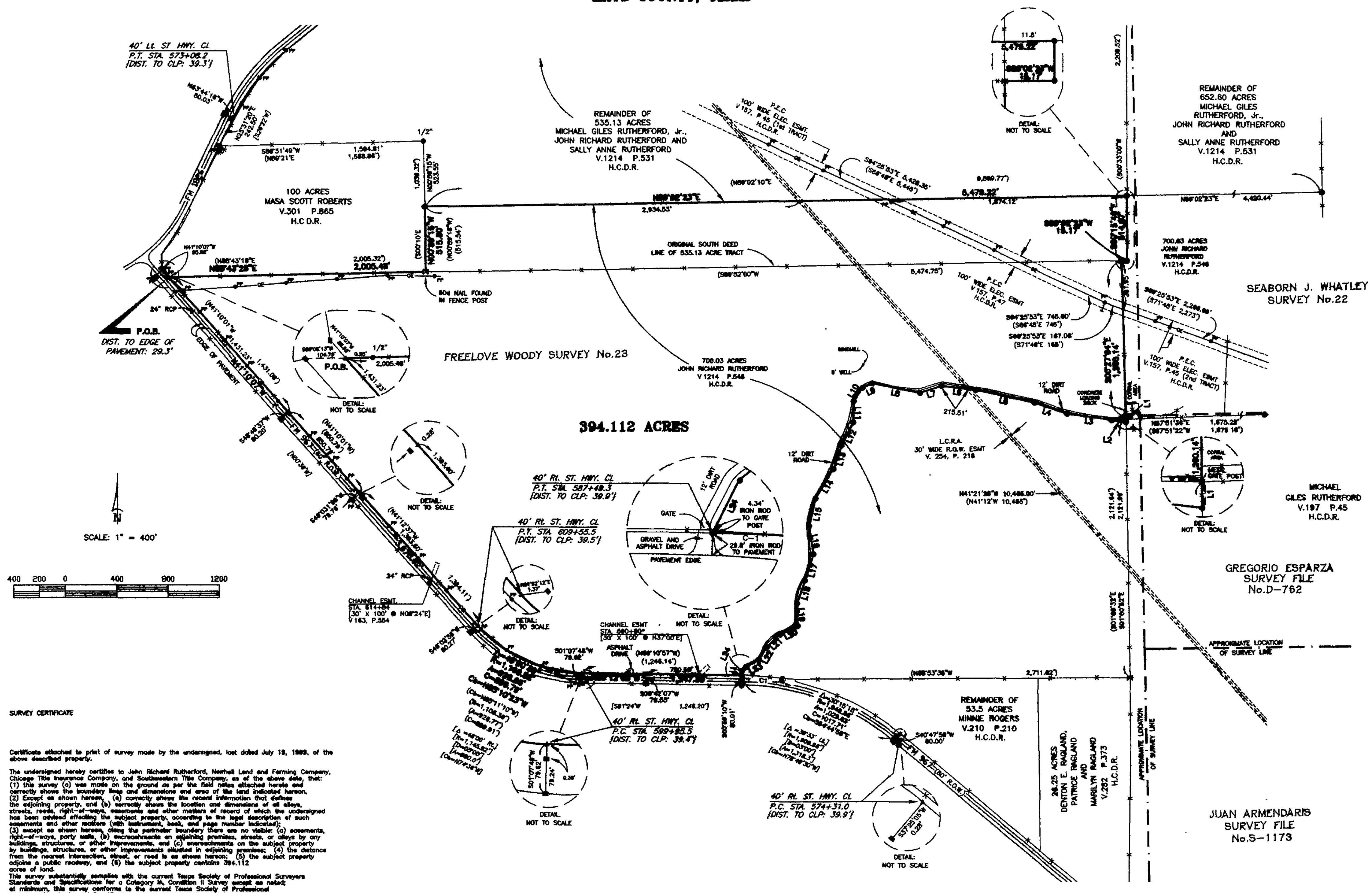
9p) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 6/18/71, EXECUTED BY MICHAEL GILES RUTHERFORD, RECORDED IN VOLUME 243, PAGE 955, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

9q) RIGHT OF WAY EASEMENT GRANTED TO LOWER COLORADO RIVER AUTHORITY BY MIKE G. RUTHERFORD BY INSTRUMENT DATED 6/25/72, RECORDED IN VOLUME 254, PAGE 218, DEED RECORDS OF HAYS COUNTY, TEXAS. [AS SHOWN]

9r) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 6/16/87, EXECUTED BY MICHAEL G. RUTHERFORD, RECORDED IN VOLUME 767, PAGE 409, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

NOTES:

1) THE BEARING BASIS USED FOR THE SURVEY SHOWN HEREON IS THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, HARN / NAD 83 (GRID)
2) CHANNEL EASEMENTS SHOWN WITH AN ASTERISK (*) ARE AS SHOWN ON HIGHWAY STRIP MAP
3) PERIMETER SURVEY ONLY, EXCEPT AS NOTED, NO INTERNAL IMPROVEMENTS WERE LOCATED OR SHOWN HEREON.



LEGEND

H.C.D.R.	HAYS COUNTY DEED RECORDS
L.C.R.A.	LOWER COLORADO RIVER AUTHORITY
P.E.C.	PEDERNALES ELECTRIC COOPERATIVE, INC.
R.O.W.	RIGHT-OF-WAY
RCP	REINFORCED CONCRETE PIPE
P.O.B.	POINT OF BEGINNING
( )	RECORD INFORMATION
[ ]	RECORD CENTERLINE INFORMATION FROM TEXAS DEPARTMENT OF TRANSPORTATION STRIP MAPS: C-S-J # 1764-02-001 (FM 1826) C-S-J # 1776-01-002 (FM 967)
{ }	TIE TO EXISTING CENTERLINE OF PAVEMENT {CLP}
■	TxDOT CONCRETE MONUMENT FOUND
◉	5/8" IRON PIPE FOUND
●	5/8" IRON ROD FOUND (UNLESS OTHERWISE NOTED)
●	1/2" IRON ROD WITH PLASTIC CAP MARKED "CAPITAL SURVEYING COMPANY INC." SET
◉	5/8" IRON ROD WITH ALUMINUM CAP MARKED "KENT McMILLAN, LAND SURVEYOR, RPLS 4341" FOUND
▲	CALCULATED POINT
⋈	FENCE CORNER POST
PP	POWER POLE
	DOWN GUY
—x—	FENCE
—OE—	OVERHEAD ELECTRIC LINE
	BREAK IN SCALE

SURVEY CERTIFICATE

Certificate attached to print of survey made by the undersigned, last dated July 19, 1999, of the above described property.

The undersigned hereby certifies to John Richard Rutherford, Newhall Land and Farming Company, Chicago Title Insurance Company, and Southwestern Title Company, as of the above date, that: (1) this survey (a) was made on the ground as per the field notes attached hereto and correctly shows the boundary lines and dimensions and area of the land indicated hereon, (2) Except as shown hereon, (a) correctly shows the record information that defines the adjoining property, and (b) correctly shows the location and dimensions of all alleys, streets, roads, right-of-ways, easements and other matters of record of which the undersigned has been advised affecting the subject property, according to the legal description of such easements and other matters (with instrument, book, and page number indicated); (3) except as shown hereon, along the perimeter boundary there are no visible: (a) easements, right-of-ways, party walls, (b) encroachments on adjoining premises, streets, or alleys by any buildings, structures, or other improvements, and (c) encroachments on the subject property by buildings, structures, or other improvements situated in adjoining premises; (4) the distance from the nearest intersection, street, or road is as shown hereon; (5) the subject property adjoins a public roadway, and (6) the subject property contains 394.112 acres of land.
This survey substantially complies with the current Texas Society of Professional Surveyors Standards and Specifications for a Category IA, Condition II Survey except as noted; at minimum, this survey conforms to the current Texas Society of Professional Surveyors Standards and Specifications for a Category 1A, Condition IV Survey.

Executed on this the 19th day of July, 1999

Gregory A. Way
RPLS 4567
State of Texas

STATE OF TEXAS REGISTERED GREGORY A. WAY 4567 PROFESSIONAL LAND SURVEYOR

FLOODPLAIN NOTE.

ACCORDING TO THE FLOOD INSURANCE RATE MAPS, No.487209 C 0085 E, No.48209 C 007 E, No.48209 C 0105 E AND No.48209 C 0110 E, ALL DATED FEBRUARY 18, 1998, FOR HAYS COUNTY, TEXAS, AND INCORPORATED AREAS, PORTIONS OF THIS TRACT LIE WITHIN ZONE "A" OF THE DESIGNATED 100-YEAR FLOODPLAIN.

CURVE TABLE

CURVE No.	DELTA	RADIUS	ARC	CHORD	Ch BEARING
C-1	9°18'06'	1,949.86'	316.55'	316.20'	S84°31'41"E
(C-1)		1,950.09'	316.53'	316.18'	N84°30'57"W

LINE TABLE

LINE No.	BEARING	DISTANCE	LINE No.	BEARING	DISTANCE
L1	[illegible]	17.91'	L13	S17°[illegible]W	[illegible]
L2	[illegible]	111.[illegible]'	L14	[illegible]	[illegible]
L3	[illegible]	[illegible]	L15	[illegible]	[illegible]
L4	[illegible]	[illegible]4.16'	L16	[illegible]	[illegible]
L5	[illegible]	[illegible].31'	L17	[illegible]	[illegible]
L6	[illegible]	287.35'	L18	[illegible]	[illegible]
L7	[illegible]	177.3[illegible]'	L19	S01°[illegible]	1[illegible].11'
L8	[illegible]	378.19'	L20	[illegible]	[illegible]
L9	[illegible]	84.41'	L21	[illegible]	[illegible]
L10	[illegible]	1[illegible].87'	L22	[illegible]	11[illegible]
L11	[illegible]	[illegible]	L23	[illegible]	11[illegible]
L12	[illegible]	2[illegible].14'	L24	S20°35'43"W	75.[illegible]'

CAPITAL SURVEYING COMPANY INCORPORATED
1101 Capital of Texas Highway South
Austin, Texas 78746
Building D, Suite 110
(512) 327-4006

DRAWN BY: WAL, RASmith	SCALE: 1" = 400'	F.B.
JOB NO.: 99522 10	DATE. JUNE 21, 1999	SHEET NO.: 1 OF 1
DRAWING NO.: 99522S2	CRD #: 99522	

E:\99\522\99522S2.dwg Mon Jul 19 14:59:48 1999

SURVEY OF 128.166 ACRES
OUT OF THE
FREELOVE WOODY SURVEY No.23
HAYS COUNTY, TEXAS

TITLE COMMITMENT NOTE.

THIS SURVEY WAS PREPARED USING THAT INFORMATION CONTAINED IN SCHEDULE "B", OF THE TITLE REPORT FURNISHED BY SOUTHWESTERN TITLE COMPANY, GF No. 99-0138 DATED MAY 5, 1999 AND SHOWS THE INFORMATION CONTAINED THEREIN WITH THE FOLLOWING EXCEPTIONS AND/OR CLARIFICATIONS:

9d) PIPELINE EASEMENT GRANTED TO UNITED PRODUCERS PIPE LINE COMPANY, DATED JULY 21, 1928, EXECUTED BY M.B.D. INGLEHART, RECORDED IN VOLUME 97, PAGE 8, DEED RECORDS OF HAYS COUNTY, TEXAS. (BLANKET TYPE) [UNABLE TO LOCATE]

9e) EASEMENTS RESERVED IN DEED FROM W.I. KUYKENDALL AND WIFE, HELEN KUYKENDALL TO J.E. GREENSHAW, DATED 4/18/43, RECORDED IN VOLUME 126, PAGE 457, DEED RECORDS OF HAYS COUNTY, TEXAS. (BLANKET TYPE) [DOES NOT AFFECT]

9f) ROAD EASEMENT RIGHTS RESERVED IN DEED RECORDED IN VOLUME 130, PAGE 602, DEED RECORDS OF HAYS COUNTY, TEXAS. (BLANKET TYPE) [DOES NOT AFFECT]

9g) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 4/30/53, EXECUTED BY A. MINOR JAMES, RECORDED IN VOLUME 157, PAGE 45 DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

9h) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 6/18/53, EXECUTED BY MRS. LOIS J. HOWARD, RECORDED IN VOLUME 157, PAGE 47, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

9i) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 5/7/53, EXECUTED BY J.R. WILHELM, RECORDED IN VOLUME 157, PAGE 48, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

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9k) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 5/14/53, EXECUTED BY E.R.L. WROE, RECORDED IN VOLUME 157, PAGE 50, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

9l) CHANNEL EASEMENT GRANTED TO THE STATE OF TEXAS, DATED 2/19/55, EXECUTED BY MRS. LOIS J. HOWARD, ET AL, RECORDED IN VOLUME 163, PAGE 554, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

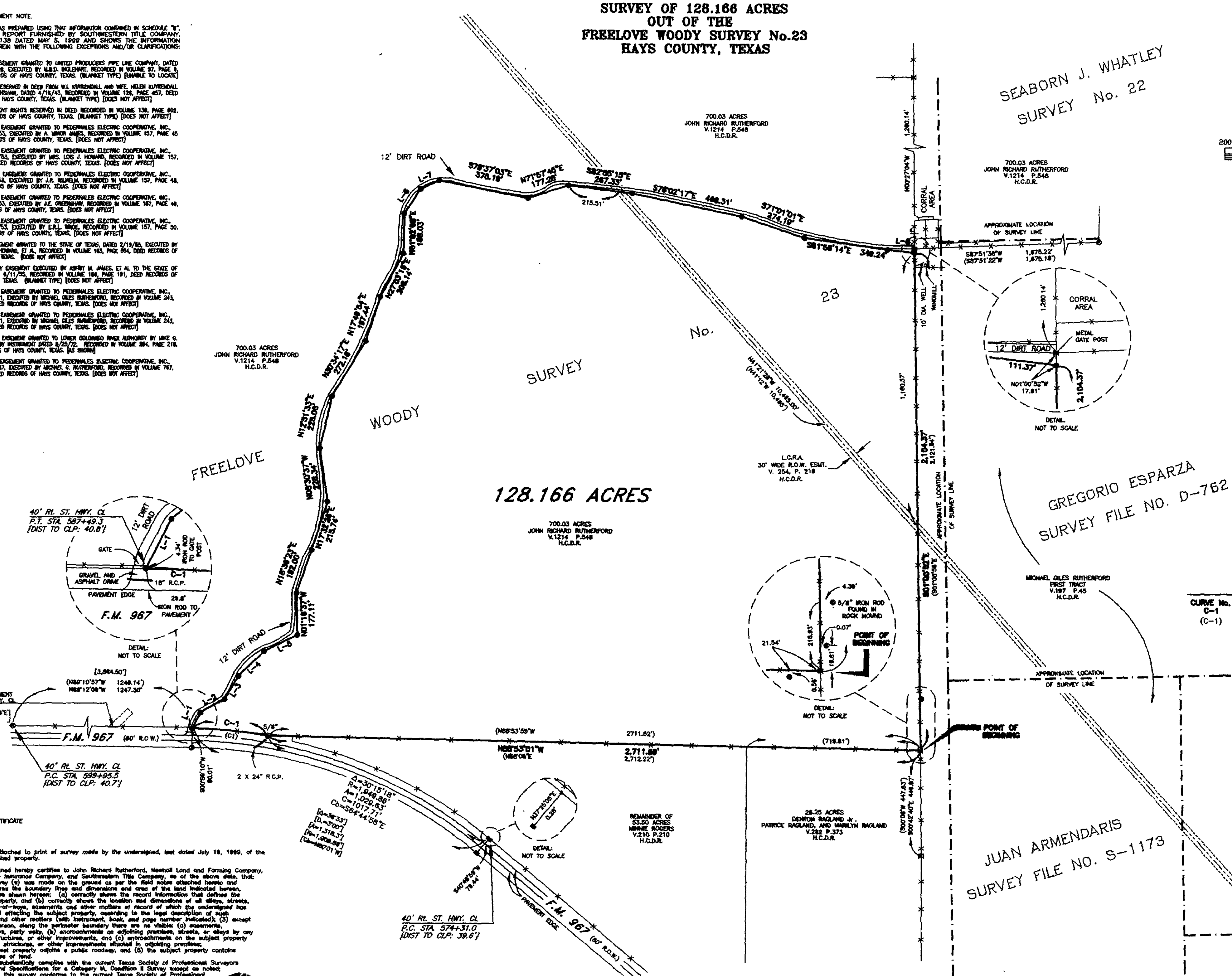
9m) RIGHT OF WAY EASEMENT EXECUTED BY ASHBY M. JAMES, ET AL TO THE STATE OF TEXAS, DATED 6/11/55, RECORDED IN VOLUME 164, PAGE 191, DEED RECORDS OF HAYS COUNTY, TEXAS. (BLANKET TYPE) [DOES NOT AFFECT]

9o) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 6/18/71, EXECUTED BY MICHAEL GILES RUTHERFORD, RECORDED IN VOLUME 243, PAGE 802, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

9p) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 6/18/71, EXECUTED BY MICHAEL GILES RUTHERFORD, RECORDED IN VOLUME 243, PAGE 805, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]

9q) RIGHT OF WAY EASEMENT GRANTED TO LOWER COLORADO RIVER AUTHORITY BY MIKE G. RUTHERFORD BY INSTRUMENT DATED 8/25/72, RECORDED IN VOLUME 254, PAGE 218, DEED RECORDS OF HAYS COUNTY, TEXAS. [AS SHOWN]

9r) DISTRIBUTION EASEMENT GRANTED TO PEDERNALES ELECTRIC COOPERATIVE, INC., DATED 6/16/87, EXECUTED BY MICHAEL G. RUTHERFORD, RECORDED IN VOLUME 767, PAGE 409, DEED RECORDS OF HAYS COUNTY, TEXAS. [DOES NOT AFFECT]



SCALE: 1" = 200'

200 100 0 200 400 600

LEGEND

H.C.D.R.	HAYS COUNTY DEED RECORDS
L.C.R.A.	LOWER COLORADO RIVER AUTHORITY
R.O.W.	RIGHT-OF-WAY
R.C.P.	REINFORCED CONCRETE PIPE
CLP	CENTERLINE OF PAVEMENT
■	TxDOT CONCRETE MONUMENT FOUND
●	IRON PIPE FOUND (SIZE NOTED)
●	5/8" IRON ROD FOUND (UNLESS OTHERWISE NOTED)
●	1/2" IRON ROD WITH PLASTIC CAP MARKED "CAPITAL SURVEYING COMPANY INC." SET
●	5/8" IRON ROD WITH ALUMINUM CAP STAMPED "KENT McMILLAN, LAND SURVEYOR, RPLS 4341" FOUND
M	FENCE CORNER POST
▲	CALCULATED POINT
—x—	WIRE FENCE
	BREAK IN SCALE
[ ]	RECORD CENTERLINE INFORMATION FROM TEXAS DEPARTMENT OF TRANSPORTATION STRIP MAP: C-S-J # 1776-01-002 (FM 967)
( )	RECORD DEED INFORMATION
{ }	TIE TO CENTERLINE OF PAVEMENT {CLP}

LINE TABLE

LINE No.	BEARING	DISTANCE
L1	N28°38'43"E	75.87'
L2	N80°22'28"E	114.28'
L3	N29°59'27"E	113.85'
L4	N46°13'37"E	180.25'
L5	N63°12'48"E	153.98'
L6	N33°11'59"E	124.67'
L7	N85°03'19"E	84.41'
L8	S83°13'40"E	111.37'

CURVE TABLE

CURVE No.	DELTA	RADIUS	ARC	CHORD	Ch. BEARING
C-1	09°18'08"	1,949.86'	316.55'	316.20'	N84°31'41"W
(C-1)		(1,950.09')	(316.53')	(316.18')	(N84°30'57"W)

SURVEY CERTIFICATE

Certificate attached to print of survey made by the undersigned, last dated July 19, 1999, of the above described property.

The undersigned hereby certifies to John Richard Rutherford, Newhall Land and Farming Company, Chicago Title Insurance Company, and Southwestern Title Company, as of the above date, that: (1) this survey (a) was made on the ground as per the field notes attached hereto and correctly shows the boundary lines and dimensions and area of the land indicated hereon. (2) Except as shown hereon: (a) correctly shows the record information that defines the adjoining property, and (b) correctly shows the location and dimensions of all alleys, streets, roads, right-of-ways, easements and other matters of record of which the undersigned has been advised affecting the subject property, according to the legal description of such easements and other matters (with instrument, book, and page number indicated); (3) except as shown hereon, along the perimeter boundary there are no visible: (a) easements, right-of-ways, party walls, (b) encroachments on adjoining premises, streets, or alleys by any buildings, structures, or other improvements, and (c) encroachments on the subject property by buildings, structures, or other improvements situated in adjoining premises; (4) the subject property adjoins a public roadway, and (5) the subject property contains 128.166 acres of land.
This survey substantially complies with the current Texas Society of Professional Surveyors Standards and Specifications for a Category IA, Condition II Survey except as noted; at minimum, this survey conforms to the current Texas Society of Professional Surveyors Standards and Specifications for a Category 1A, Condition IV Survey.

Executed on this the 19th day of July, 1999

Gregory A. Way
RPLS 4567, State of Texas

STATE OF TEXAS REGISTERED GREGORY A. WAY 4567 PROFESSIONAL LAND SURVEYOR

NOTES:

1) THE BEARING BASIS USED FOR THE SURVEY SHOWN HEREON IS THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, HARN/NAD 83 (GRID)
2) PERIMETER SURVEY ONLY, EXCEPT AS NOTED, NO INTERNAL IMPROVEMENTS WERE LOCATED OR SHOWN HEREON.
3) CHANNEL EASEMENTS SHOWN WITH AN ASTERISK (*) ARE AS SHOWN ON HIGHWAY STRIP MAP

FLOODPLAIN NOTE:

ACCORDING TO THE FLOOD INSURANCE RATE MAPS, No.487209 C 0065 E, No.48209 C 007 E, No.48209 C 0105 E AND No.48209 C 0110 E, ALL DATED FEBRUARY 18, 1996, FOR HAYS COUNTY, TEXAS, AND INCORPORATED AREAS, PORTIONS OF THIS TRACT LIE WITHIN ZONE "A" OF THE DESIGNATED 100-YEAR FLOODPLAIN.

CSCI

DRAWN BY: RASMITH	SCALE: 1" = 200'	F.B. 1178,1183
JOB NO.: 99522-01	DATE: JUNE 15, 1999	SHEET NO.:
DRAWING NO.: 9952253	CRD #: 99522	1 OF 1

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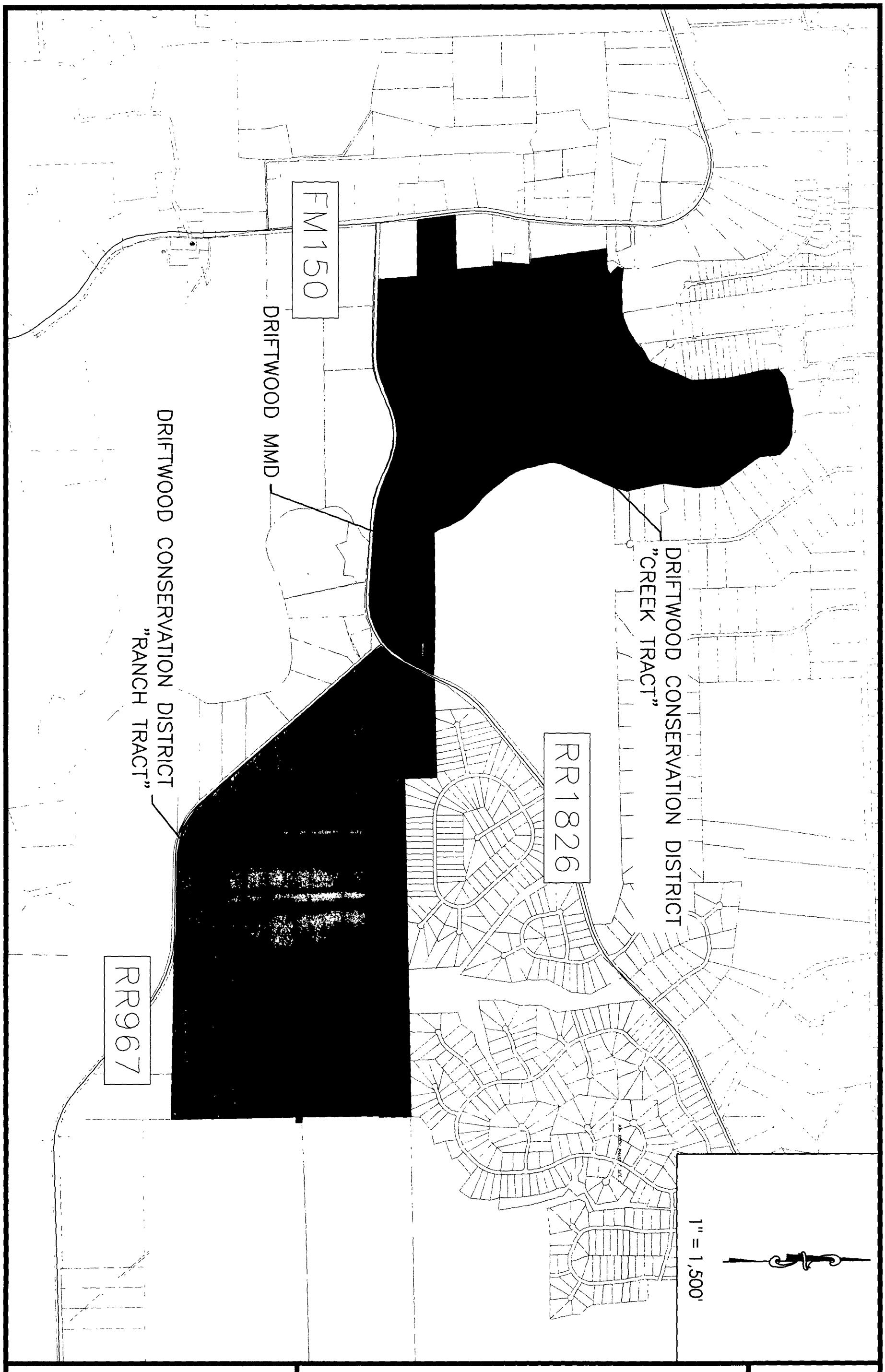
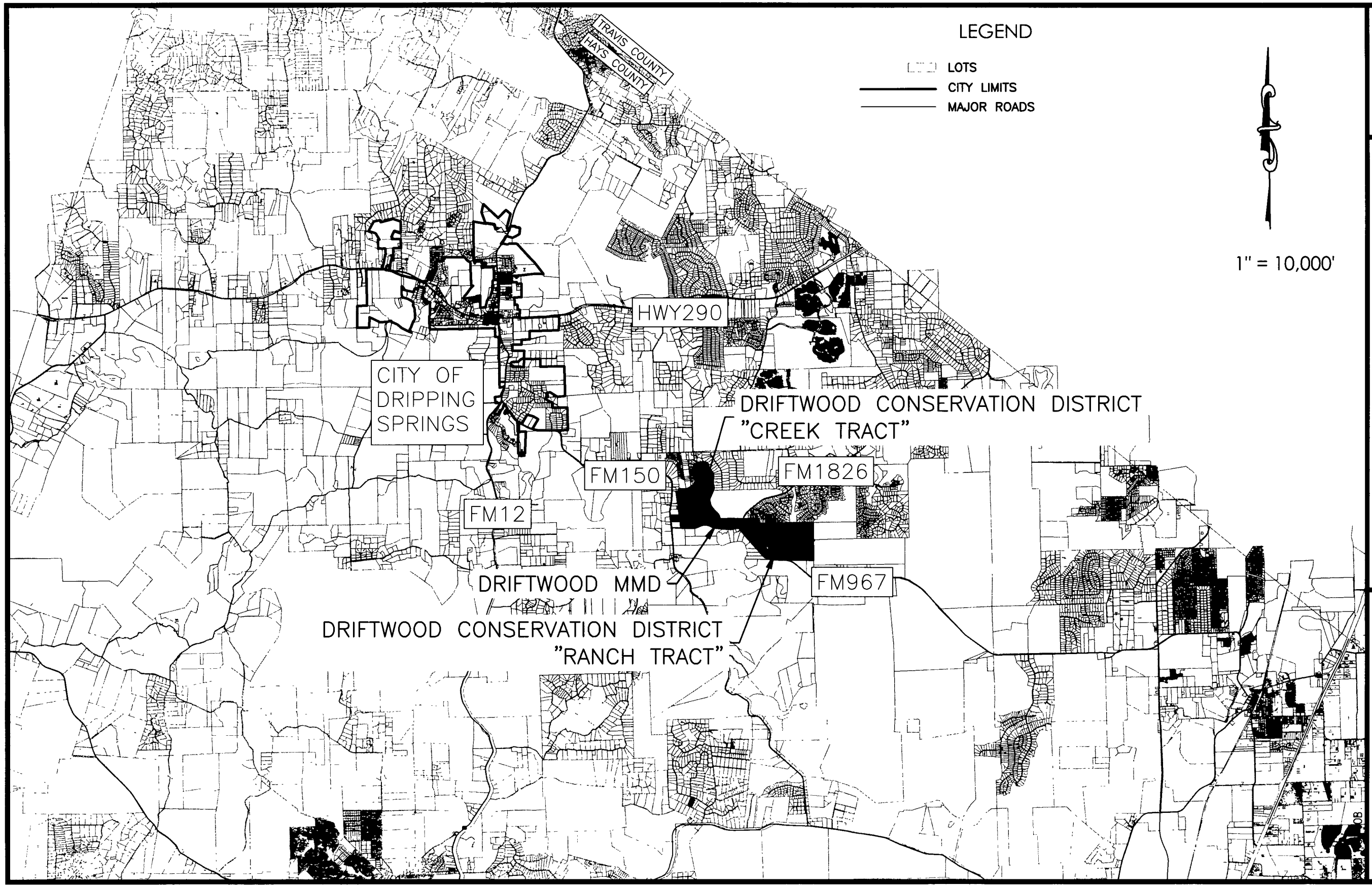


CMA ENGINEERING, INC.
235 LEDGE STONE DRIVE
AUSTIN, TEXAS 78737
(512) 432-1000 Fax: (512) 432-1015
Registration # F-3053

CITY OF DRIPPING SPRINGS
WATER CCN#13030 AMENDMENT
DETAILED MAP

tlawrence – Apr 15, 2020 – 9:41am – File: N:\1965 C of DS Driftwood Water CCN\Detail Map.dwg



CITY OF DRIPPING SPRINGS
WATER CCN#13030 AMENDMENT
GENERAL LOCATION MAP

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