

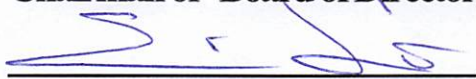
**STARR CENTRAL APPRAISAL
DISTRICT
BIENNIAL REAPPRAISAL PLAN
2027 - 2028**



Approved on this the 18th day of August 2026.



Chairman of Board of Directors



Secretary

Starr Central Appraisal District

Biennial Reappraisal Plan 2027-2028

INTRODUCTION

Scope of Responsibility

The Starr Central Appraisal District has prepared and published this reappraisal plan and appraisal report to provide our Board of Directors, citizens and taxpayers with a better understanding of the district's responsibilities and activities. This report has several parts: a general introduction and then, several sections describing the appraisal effort by the appraisal district.

The Starr County Appraisal District (CAD) is a political subdivision of the State of Texas created effective January 1, 1980. The provisions of the Texas Property Tax Code govern the appraisal district's legal, statutory, and administrative requirements. A member Board of Directors, appointed by the taxing units within the boundaries of Starr County, constitutes the district's governing body. The chief appraiser, appointed by the Board of Directors, is the chief administrator and chief executive officer of the appraisal district.

On May 14, 2024, the Starr County Appraisal District board of directors voted to change the name to the Starr Central Appraisal District. The board believes this change will help property owners distinguish between the responsibilities of the county government and the appraisal district. Other than the name, there will be no other changes. The name change will officially take effect on January 01, 2025.

The appraisal district is responsible for local property tax appraisal and exemption administration for nine (9) jurisdictions or taxing units in the county. Each taxing unit, such as the county, a city, school district, etc., sets its own tax rate to generate revenue to pay for such things as police and fire protection, public schools, road and street maintenance, courts, water and sewer systems, and other public services. Property appraisals and estimated values by the appraisal district allocate the year's tax burden on the basis of each taxable property's market value. We also determine eligibility for various types of property tax exemptions such as those for homeowners, the elderly, disabled veterans, charitable or religious organizations and agricultural productivity valuation.

Except as otherwise provided by the Property Tax Code, all taxable property is appraised at its "market value" as of January 1st. Under the tax code, "market value" means the price at which a property would transfer for cash or its equivalent under prevailing market conditions if:

- Exposed for sale in the open market with a reasonable time for the seller to find a purchaser,
- Both the seller and the buyer know of all the uses and purposes to which the property is adapted and for which it is capable of being used and of the enforceable restrictions on its use, and;
- Both the seller and buyer seek to maximize their gains and neither is in a position to take advantage of the exigencies of the other.

The Property Tax Code defines special appraisal provisions for the valuation of residential homestead property (Sec. 23.23), productivity (Sec. 23.41), real property inventory (Sec. 23.12), dealer inventory (Sec. 23.121, 23.124, 23.1241 and 23.127), nominal (Sec. 23.18) or restricted use properties (Sec. 23.83) and allocation of interstate property (Sec. 23.03). The owner of real property inventory may elect to have the inventory appraised at its market value as of September 1st of the year preceding the tax year to which the appraisal applies by filing an application with the chief appraiser requesting that the inventory be appraised as of September 1st.

TAX CODE REQUIREMENT

Sec. 6.05 (i). Appraisal Office.

To ensure adherence with generally accepted appraisal practices, the board of directors of an appraisal district shall develop biennially a written plan for the periodic reappraisal of all property within the boundaries of the district according to the requirements of Section 25.18 and shall hold a public hearing to consider the proposed plan. Not later than the 10th day before the date of the hearing, the secretary of the board shall deliver to the presiding officer of the governing body of each taxing unit participating in the district a written notice of the date, time, and place for the hearing. Not later than September 15 of each even-numbered year, the board shall complete its hearings, make any amendments, and by resolution finally approve the plan. Copies of the approved plan shall be distributed to the presiding officer of the governing body of each taxing unit participating in the district and to the comptroller within 60 days of the approval date.

Sec. 25.18. Periodic Reappraisals.

(a) Each appraisal office shall implement a plan for periodic reappraisal of property approved by the board of directors under Section 6.05(i).

(b) The plan shall provide for the following reappraisal activities all real and personal property in the district at least once every three years:

(1) identifying properties to be appraised through physical inspection or by other reliable means of identification, including deeds or other legal documentation, aerial photographs, land-based photographs, surveys, maps, and property sketches;

Starr CAD physically inspects all real properties at least once every three (3) years. The appraisal opinion of value for all property located in the district is reviewed and evaluated each year by ratios studies. Only in cases where physical access is denied or impossible, will the CAD resort to the other means of property identification mentioned above. For 2027-2028, the county has been divided into Three (3) sections. The sections consist of three (3) School Districts are identified as Area 1 for Roma ISD, Area 2 Rio Grande City CISD and Area 3 San Isidro ISD. It has been assigned to all appraisers. See Exhibit A for a map of the three (3) reappraisal section. Tax year 2027 will be reappraisal year for E/2 Area 1 Roma ISD, E/2 Area 2 Rio Grande CISD & S/2 Area 3 San Isidro ISD. 2028 Tax year will be reappraisal year for W/2 Area 1 Roma ISD, W/2 Area 2 Rio Grande CIS and N/2 Area 3 San Isidro ISD. See attachment Exhibit A included is our 2027-2028 map showing the Areas by School Districts that will be appraised.

Tax Year 2027

Tax year 2027 is a reappraisal year. E/2 Area 1 (Roma CISD), E/2 Area 2 (Rio ISD) and S/2 Area 3 (San Isidro ISD) will receive field inspection. All new construction will be picked up; all adjustments in property characteristics that affect value will be applied for all property types and classes, within the District.

<i>CATEGORY</i>	<i>PARCEL COUNT</i>
<i>A</i>	<i>9,519</i>
<i>B</i>	<i>249</i>
<i>C</i>	<i>2,470</i>
<i>D</i>	<i>5,191</i>
<i>E</i>	<i>6,134</i>
<i>F</i>	<i>944</i>
<i>L</i>	<i>3,687 (ANNUALLY)</i>
<i>M</i>	<i>462 (ANNUALLY)</i>
<i>S</i>	<i>38 (ANNUALLY)</i>
<i>X</i>	<i>1,014</i>

Tax Year 2028

Tax year 2028 is a reappraisal year. W/2 Area 1 (Roma CISD), W/2 Area 2 (Rio ISD) and N/2 Area 3 (San Isidro ISD) will receive field inspection. All new construction will be picked up; all adjustments in property characteristics that affect value will be applied for all property types and classes, within the District.

<i>CATEGORY</i>	<i>PARCEL COUNT</i>
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<i>X</i>	<i>1,014</i>

(2) Identifying and updating relevant characteristics of each property in the appraisal records;

Identifying and updating relevant property characteristics occurs by physical inspection, building permits and by property owner interviews. Changes in age, condition, quality, size, remodels, demolitions and other property specific attributes contribute to relevant property characteristics. Relevant property characteristics are maintained on the property record card and within the CAMA system for each property account.

(3) Defining market areas in the district;

Market areas are defined and determined by market activity (sales). Historically, Starr CAD has not experienced sufficient market activity (sales) to identify significant market differences based on location or property type. Sales are collected by mailing sales confirmation/verification letters to recent buyers, from realtors, fee/land appraisers and neighboring CADs. The CAD has three school districts and three incorporated cities. For purposes of statistical analysis and appraisal schedule maintenance, Starr CAD conducts ratio studies for property categories by school district, and defines its market areas as Rio Grande City ISD, Roma ISD and San Isidro ISD.

(4) Identifying property characteristics that affect property value in each market area, including:

(A) The location and market area of property;

(B) Physical attributes of property, such as size, age, and condition;

(C) Legal and economic attributes; and

(D) Easements, covenants, leases, reservations, contracts, declarations, special assessments, ordinances, or legal restrictions;

When Starr CAD has sufficient market data (sales) it uses techniques of the Market Approach to Value to adjust comparable sales to determine what differences in property characteristics, if any, are affecting market value. Comparable sales analysis will identify and adjust differences in location, physical attributes, legal and economic attributes, easements, covenants, leases, reservations, contracts, declarations, special assessments, ordinances and legal restrictions.

(5) Developing an appraisal model that reflects the relationship among the property characteristics affecting value in each market area and determines the contribution of individual property characteristics;

Starr CAD utilizes an appraisal model (CAMA) developed by its software vendor that values individual property characteristics based on their contributory value to the total property value. Contributory value for each property segment (characteristic) is determined by sales analysis and local building costs. The model accesses appraisal cost schedules for each segment developed and maintained by Starr CAD and calculates a total market value for each property.

(6) Applying the conclusions reflected in the model to the characteristics of the properties being appraised; and

Starr CAD uses conclusions reflected in appraisal model results to construct and maintain property classification guides, identifying minimum property characteristics typical for each property class.

(7) Reviewing the appraisal results to determine value.

Starr CAD tests the results of its appraisal model values (appraisals) against market data (sales) to determine the accuracy and level of appraisal, as well as to monitor the integrity of the appraisal model (CAMA). Ratio study results are used to maintain and update appraisal schedules to achieve market value appraisals.

The Texas Property Tax Code, under Sec. 25.18, requires each appraisal office to implement a plan to update appraised values for real property at least once every three years. The district's current policy is to conduct a general reappraisal of taxable property every year. Appraised values are reviewed annually and are subject to change. Business personal properties, minerals and utility properties are appraised every year.

The appraised value of real estate is calculated using specific information about each property. Using computer-assisted mass appraisal programs, and recognized appraisal methods and techniques, we compare that information with the data for similar properties, and with recent cost and market data. The district follows the standards of the International Association of Assessing Officers (IAAO) regarding its appraisal practices and procedures, and subscribes to the standards promulgated by the Appraisal Foundation known as the Uniform Standards of Professional Appraisal Practice (USPAP) to the extent they are applicable.

Personnel Resources

The office of the Chief Appraiser is primarily responsible for overall planning, organizing, staffing, coordinating, and controlling of district operations. The administration department's function is to plan, organize, direct and control the business support functions related to human resources, budget, finance, records management, purchasing, fixed assets, facilities and postal services. The appraisal department is responsible for the valuation of all real and personal property accounts. The property types appraised include commercial, residential, business personal, mineral, utilities, and industrial. The district's appraisers are subject to the provisions of the Property Taxation Professional Certification Act and must be duly registered with the Texas Department of Licensing and Regulation (TDLR). Support functions including records maintenance, information and assistance to property owners, and hearings are coordinated by personnel in support services. The Appraisal District is located at 100 N. FM 3167, Suite 300, Rio Grande City, Texas.

The Appraisal District Staff Consist of Twenty-Two Employees:

- 1- Official Administrator (Executive level administration)
- 3-Supervisory Administrators
- 18-Administrative Support (Professional, Clerical Data and Customer Service)

Staff Education and Training

All personnel that are performing appraisal work are registered with the Texas Department of Licensing and Regulation and are required to take appraisal courses to achieve the status of Registered Professional Appraiser within five years of employment as an appraiser. After they are awarded their license, they must receive additional training of a minimum of 75 hours of continuing education units every five years. Failure to meet these minimum standards results in the termination of the employee.

Additionally, all appraisal personnel receive extensive training in data gathering processes including data entry into pen pads used in fieldwork and statistical analyses of all types of property to ensure equality and uniformity of appraisal of all types of property. On-the-job training is delivered by department managers for new appraisers and managers meet regularly with staff to introduce new procedures and regularly monitor appraisal activity to ensure that standardized appraisal procedures are being followed by all personnel.

Data

The district is responsible for establishing and maintaining approximately 52,425 real and personal property and 17,716 mineral accounts covering 1,236 square miles within Starr County. This data includes property characteristics, ownership, and exemption information. Property characteristic data on new construction is updated through an annual field effort; existing property data is maintained through a field review. Sales are routinely validated during a separate field effort; however, numerous sales are validated as part of the new construction and field inspections. General trends in employment, interest rates, new construction trends, cost and market data are acquired through various sources, including internally generated questionnaires to buyer and sellers, university research centers, and market data centers and vendors.

The district has a near complete geographic information system (GIS) that maintains cadastral maps and various layers of data and aerial photography.

INDEPENDENT PERFORMANCE TEST

According to Chapter 5 of the TPTC and Section 403.302 of the Texas Government Code, the State Comptroller's Property Tax Assistance Division (PTAD) conducts an annual property value study (PVS) of each Texas school district and each appraisal district. As part of this annual study, the code requires the Comptroller to: use sales and recognized auditing and sampling techniques; review each appraisal district's appraisal methods, standards and procedures to determine whether the district used recognized standards and practices (MAP review); test the validity of school district taxable values by sampling sales and appraisals in the district and presume the appraisal roll values are correct when values are valid; and, determine the level and uniformity of property tax appraisal in each appraisal district. The methodology used in the property value study includes stratified samples to improve sample representativeness and techniques or procedures of measuring uniformity.

This study utilizes statistical analyses of sold properties (sale ratio studies) and appraisals of unsold properties (appraisal ratio studies) as a basis for assessment ratio reporting. For appraisal districts, the reported measures include median level of appraisal, coefficient of dispersion (COD), the percentage of properties within 10% of the median, the percentage of properties within 25% of the median and price-related differential (PRD) for properties overall and by state category.

There are 3 independent school districts in Starr CAD for which appraisal rolls are annually developed. The preliminary results of this study are released February 1 in the year following the year of appraisement the final results of this study are certified to the Education Commissioner of the Texas Education Agency (TEA) the following July of each year. This outside (third party) ratio study provides additional assistance to the CAD in determining areas of market activity or changing market conditions.

Appraisal Activities

INTRODUCTION

Appraisal Responsibilities

The field appraisal staff is responsible for collecting and maintaining property characteristic data for classification, valuation, and other purposes. Accurate valuation of real and personal property by any method requires a comprehensive physical description of personal property, and land and building characteristics. This appraisal activity is responsible for administering, planning and coordinating all activities involving data collection and maintenance of all commercial, residential and personal property types located within the boundaries of Starr County and the jurisdictions of this appraisal district. The data collection effort involves the field inspection of real and personal property accounts, as well as data entry of all data collected into the existing information system. The goal is to periodically field inspect residential, commercial, and personal properties in the district every other year. Improved residential properties with improvements less than 25 years in age are field inspected every other year. All other property is inspected every year. The appraisal opinion of value for all property located in the district is reviewed and evaluated each year.

Appraisal assignments for each appraisal year can be found in Exhibit A.

Appraisal Resources

- **Personnel** - The appraisal activities are conducted by Twenty-one (21) staff appraisers and contractors.
- **Data** - The data used by field appraisers is printed on a property record card (PRD), or personal property data sheets. Data used includes maps, sales data, fire and damage reports, building permits, photos and actual cost and market information. Sources of information are gathered using excellent reciprocal relationships with other participants in the real estate market place. The district cultivates sources and gathers information from both buyers and sellers participating in the real estate market.

Appraisal Frequency and Method Summary

- **Residential Property-** Residential property is physically examined at least once every 3 years with appraisers walking in front of each home, noting condition of the improvement and looking for changes that might have occurred to the property since the last on-site check. In some subdivisions where change of condition is frequent, homes are examined annually. Exterior pictures are taken of homes every other year. Every subdivision is statistically analyzed annually to ensure that sales that have occurred in the subdivision during the past 12 months are within a $\pm 3\%$ range of appraised value. If the sales do not indicate that range, adjustments are made to the subdivision using a process outlined in detail in the Residential Appraisal section of this report.
- **Commercial Property-** Commercial and industrial real estate is observed at least once every three (3) years to verify class and condition. The inspection occurs as Business Personal Property appraisers are checking BPP accounts. Pictures are taken of the improvements every other year. Real estate accounts are analyzed against sales of similar properties in Starr CAD. The income approach to value is also utilized to appraise larger valued commercial properties such as shopping centers, apartment complexes, office buildings, restaurants, motels and hotels, and other types of property that typically sell based on net operating income.
- **Business Personal Property-** Business personal property is observed at least once every three (3) with appraisers actually going into businesses to develop quality and density observations. Renditions are reviewed annually. A rendition is left for new businesses to complete. Similar businesses to a subject are analyzed annually to determine consistency of appraisal per square foot. Businesses are categorized using SIC codes. Rendition laws provide additional information on which to base values of all BPP accounts.
- **Minerals-** Working and royalty interests of producing oil and gas wells are appraised annually by a contractor (Wardlaw Appraisal Group, LC) for Starr CAD. The most recent production data available from the Texas Railroad Commission is downloaded into appraisal software that estimates economically recoverable reserves. Those reserves are then valued based upon State mandated pricing using the previous year's average of oil or gas values. A discount is applied over the anticipated life of the well in order to consider the value of money over time to recover those reserves. Each producing lease is valued as a unit and then that value is divided according to the various owners of the lease listed in division orders.
- **Utilities and Pipelines-** Utility companies and pipelines are appraised annually by a contractor (Wardlaw Appraisal Group, LC) for Starr CAD using a unit value developed using all three approaches to value. For example, a utility company's total value in the State is estimated using cost, market, and income approaches to value and then the entire value is allocated using the components of that utility company that have situs in the various tax units of Starr CAD. Components include such things as miles of transmission lines, miles of distribution lines, substations and the like for an electric utility.
 - See Attachment B 2027-2028 Reappraisal plan from Wardlaw Appraisal Group, LC.

PRELIMINARY ANALYSIS

Data Collection/Validation

Data collection of real property involves maintaining data characteristics of the property every year. The information contained includes site characteristics, such as land size and topography, and improvement data, such as square foot of living area, year built, quality of construction, and condition. Field appraisers are required to use a property classification system that establishes uniform procedures for the correct listing of real property. All properties are coded according to a classification system. The approaches to value are structured and calibrated based on this coding system and property description and characteristics. The field appraisers use property classification references during their initial training and as a guide in the field inspection of properties.

Data collection for personal property involves maintaining information on software designed to record and appraise business personal property. The type of information contained in the BPP file includes personal property such as business inventory, furniture and fixtures, machinery and equipment, with details such as cost and location. The field appraisers conducting on-site inspections use a personal property classification system during their initial training and as a guide to correctly list all personal property that is taxable.

The listing procedure utilized by the field appraisers is available in the district offices. Appraisers periodically update the classification system with input from the valuation group.

Sources of Data

The sources of data collection are through property inspection, new construction field effort, data review/relist field effort, data mailer questionnaires, hearings, sales validation field effort, commercial sales verification and field effort, newspapers and publications, and property owner correspondence by mail. A principal source of data comes from building permits received from taxing jurisdictions that require property owners to take out a building permit. Paper permits are received and matched manually with the property's tax account number for data entry. Area and regional real estate brokers and managers are also sources of market and property information. Data surveys of property owners requesting market information and property description information is also valuable data. Soil surveys and agricultural surveys of farming and ranching property owners and industry professionals are helpful for productivity value calibration. The Texas Railroad Commission is the source for mineral production data and leasing information. Improvement cost information is gathered from local building contractors and Marshall and Swift Valuation Service. Various income and rental surveys are performed by interviewing property managers and operators to determine operating income and expenses for investment and income producing real property.

Data review of entire neighborhoods is generally a good source for data collection. Appraisers walk entire neighborhoods to review the accuracy of our data and identify properties that have to be relisted. The sales validation effort in real property pertains to the collection of market data for properties that have sold. In residential* the sales validation effort involves on-site inspection by field appraisers to verify the accuracy of the property characteristics and confirmation of the sales price

Property owners are one of the best sources for identifying incorrect data that generates a field check. Frequently, the property owner provides reliable data to allow correction of records without having to send an appraiser on-site. Properties identified in this manner are added to a work file and inspected at the earliest opportunity. Accuracy and validity in property descriptions and characteristics data is the highest goal and is stressed throughout the appraisal process from year to year. Appraisal opinion quality and validity relies on data accuracy as its foundation.

Data Collection Procedures

The appraisers appraise by sections. Sections consist of three (3) areas being the three (3) School Districts in Starr County to conduct field inspections. These geographic areas of assignment are maintained for several years to enable the appraiser by sections to become knowledgeable of all the factors that drive values for that section. Appraisers of real estate and business personal property conduct field inspections and record information using an appraisal field card.

The quality of the data used is extremely important in estimating market values of taxable property. While work performance standards are established and upheld for the various field activities, the quality of data is emphasized as the goal and responsibility of each appraiser. New appraisers are trained in the specifics of data collection and the classification system set forth and recognized as "rules" to follow. Experienced appraisers are routinely re-trained in listing procedures prior to major field projects such as new construction, sales validation or data review. A quality assurance process exists through supervisory review of the work being performed by the field appraisers. Quality assurance supervision is charged with the responsibility of ensuring that appraisers follow listing procedures, identify training issues and provide uniform training throughout the field appraisal staff.

Data Maintenance

The field appraiser is responsible for the data entry of his/her fieldwork into the computer file. This responsibility includes not only data entry, but also quality assurance. The majority of the data collected in the field is input by computer staff with supervision by the field appraiser. Data updates and file modification for property descriptions and input accuracy is conducted as the responsibility of the field appraiser and appraisal supervisors.

INDIVIDUAL VALUE REVIEW PROCEDURES

Field Review

The date of last inspection and the CAD appraiser responsible are listed on the property card. If a property owner or jurisdiction dispute the district's records concerning this data during a hearing, via a telephone call or other correspondence received, the record may be corrected based on the evidence provided or an on-site inspection may be conducted. Typically, a field inspection is requested to verify this information for the current year's valuation or for the next year's valuation. Every year a field review of real property located in certain areas or neighborhoods in the jurisdiction is done during the data review/re-list field effort. A field review is performed on all personal property accounts, with available situs, each year.

Office Review

Office reviews are completed on properties where update information has been received from the owner of the property and is considered accurate and correct. Data mailers, sent in mass, or at the request of the property owner, frequently verify some property characteristics or current condition of the property. When the property data is verified in this manner, and considered accurate and correct, field inspections may not be required. The personal property department mails property rendition forms in January of each year to assist in the annual review of the property.

PERFORMANCE TEST

The property appraisers are responsible for conducting ratio studies and comparative analysis. Ratio studies are conducted on properties located within certain neighborhoods or districts by appraisal staff. The sale ratio and comparative analysis of sale property to appraised property forms the basis for determining the level of appraisal and market influences and factors for the neighborhood. This information is the basis for updating property valuation for the entire area of property to be evaluated. Field appraisers, in many cases, may conduct field inspections to ensure the accuracy of the property descriptions at the time of sale for this study. This inspection is to ensure that the ratios produced are accurate for the property sold and that appraised values utilized in the study are based on accurate property data characteristics observed at the time of sale. Also, property inspections are performed to discover if property characteristics had changed as of the sale date or subsequent to the sale date. Sale ratios should be based on the value of the property as of the date of sale not after a subsequent or substantial change was made to the property after the negotiation and agreement in price was concluded. Properly performed ratio studies are a good reflection of the level of appraisal for the district.

PLANNING AND ORGANIZATION

A calendar of key events with critical completion dates is prepared for each major work area. This calendar identifies the date of events for appraisal, clerical, customer service, and information system. A separate calendar is prepared for tax years 2027 and 2028. Production standards for field activities are calculated and incorporated in the planning and scheduling process:

2027 TAX YEAR CALENDAR EVENTS

- August 01, 2026 – December 31, 2026: Personal Property Appraiser conducts field Inspection of properties.
- August 01, 2026 – March 15, 2027: Appraisers will begin and complete filed inspections of real property within the sections that apply in the re-appraisal plan.
- October 01, 2026 – March 15, 2027: Commercial and Residential Appraisers modify cost schedules and depreciation tables to reflect current market conditions.
- October 01, 2026 – March 15, 2027: Conduct and complete residential, rural and commercial land valuation studies.

- January 01 – Formal date of property values for 2027 (Sec 23.01). New property records added; reappraise due to added improvements or other property value changes; correction of clerical errors in the records.
 - January 01, 2027 – April 15, 2027: Receive and process property owners submitted property renditions (Sec 22.23).
 - January 01, 2027 – May 01, 2027: Receive and process applications for exemptions and special appraisal through March 31, 2027.
 - January, 2027: Personal Property Appraiser modifies personal property schedules for 2027.
 - January, 2027: Appraisers work tenant list of mobile home parks.
 - January—March 2027: Complete specifications of all valuation models.
 - February—March 2027: Work commercial vehicle registration list.
 - February—June 2027: Work with personal property renditions.
 - March 2027: Review and consider conclusions and recommendations of District's Agricultural Advisory Board.
 - August 08, 2026 – March 15, 2027: Complete work of city permits and for the inspection of demolished or burned property of the tax year 2027.
 - March 2027: Test Valuation Models and complete final statistical analysis.
 - April 2027: Calculate Agricultural values based on local data. (5-year average).
 - April 2027: Review exemption and special-use appraisal applications.
 - April 01, 2027 or as soon thereafter: Mail written Appraisal Notices in compliancy with Section 25.19(g) of Property Tax Code.
 - April 1, 2027 - May 31, 2027: Informal meetings with taxpayers and or agents.
 - June 1, 2027 – July 20, 2027: Formal protest hearings with ARB.
 - July 20, 2027: Target date for Chief Appraiser to present the appraisal records to the ARB for approval.
- July 20, 2027: Integrate contactor's valuation for minerals and industrial personal property into the district CAMA computer system.

- July 25, 2027: Target date for Chief Appraiser to certify the appraisal roll to each of the taxing jurisdictions in Starr County.

2028 TAX YEAR CALENDAR EVENTS

- August 13, 2027 – December 31, 2027: Personal Property Appraiser conducts field Inspection of properties.
- August 13, 2027 – March 15, 2028: Appraisers will begin and complete filed inspections of real property within the sections that apply in the re-appraisal plan.
- October 01, 2027 – March 15, 2028: Commercial and Residential Appraisers modify cost schedules and depreciation tables to reflect current market conditions.
- October 01, 2027 – March 15, 2028: Conduct and complete residential, rural and commercial land valuation studies.
- January 01 – Formal date of property values for the year 2028 (Sec 23.01). New property records added; reappraise due to added improvements or other property value changes; correction of clerical errors in the records.
- January 01, 2028 –April 15, 2028: Receive and process property owners submitted property renditions (Sec 22.23).
- January 01, 2028 – May 01, 2028: Receive and process applications for exemptions and special appraisal through March 31, 2028.
- January, 2028: Personal Property Appraiser modifies personal property schedules for 2028.
- January, 2028: Appraisers work tenant list of mobile home parks.
- January—March 2028: Complete specifications of all valuation models.
- February—March 2028: Work commercial vehicle registration list.
- February—June 2028: Work with personal property renditions.
- March 2028: Review and consider conclusions and recommendations of District's Agricultural Advisory Board.
- August 13, 2027 – March 15, 2028: Complete work of city permits and for the inspection of demolished or burned property of the tax year 2028.
- March 2028: Test Valuation Models and complete final statistical analysis.

- April 2028: Calculate Agricultural values based on local data. (5-year average).
 - April 2028: Review exemption and special-use appraisal applications.
 - April 01, 2028 or as soon thereafter: Mail written Appraisal Notices in compliance with Section 25.19(g) of Property Tax Code.
 - April 1, 2028 - May 31, 2028: Informal meetings with taxpayers and or agents.
 - June 1, 2028 – July 20, 2028: Formal protest hearings with ARB.
 - July 20, 2028: Target date for Chief Appraiser to present the appraisal records to the ARB for approval.
- July 20, 2028: Integrate contactor's valuation for minerals and industrial personal property into the district CAMA computer system.
- July 25, 2028: Target date for Chief Appraiser to certify the appraisal roll to each of the taxing jurisdictions in Starr County.

Residential Valuation Process

INTRODUCTION

Scope of Responsibility

The residential appraisers are responsible for estimating equal and uniform market values for residential improved and vacant property. There are approximately 19,039 (A's) residential improved single and multiple family parcels and 4,941 (C's) vacant residential properties in Starr County and adjoining overlapping jurisdictional areas.

Appraisal Resources

- **Personnel** - The residential appraisal staff consists Fourteen (14) appraisers and contractors. The following appraisers are responsible for estimating the market value of residential property:
- **Data** - An individualized set of data characteristics for each residential dwelling and multiple family units in this district are collected in the field and data entered to the computer.

VALUATION APPROACH

Land Analysis

Residential land valuation analysis is conducted prior to neighborhood sales analysis. The value of the land component to the property is estimated based on available market sales for comparable and competing land under similar usage. A comparison and analysis of comparable land sales is conducted based on a comparison of land characteristics found to influence the market price of land located in the neighborhood. A computerized land table files stores the land information required to consistently value individual parcels within neighborhoods given known land characteristics. Specific land influences are considered, where necessary, and depending on neighborhood and individual lot or tract characteristics, to adjust parcels outside the neighborhood norm for such factors as access, view, shape, size, and topography. The appraisers use abstraction and allocation methods to insure that estimated land values best reflect the contributory market value of the land to the overall property value.

Area Analysis

Data on regional economic forces such as demographic patterns, regional locational factors, employment and income patterns, general trends in real property prices and rents, interest rate trends, availability of vacant land, and construction trends and costs are collected from private vendors and public sources and provide the field appraiser a current economic outlook on the real estate market. Information is gleaned from real estate publications and sources such as continuing education in the form of IAAO and TDLR classes.

Neighborhood and Market Analysis

Neighborhood analysis involves the examination of how physical, economic, governmental and social forces and other influences affect property values. The effects of these forces are also used to identify, classify, and stratify comparable properties into smaller, manageable subsets of the universe of properties known as neighborhoods. Residential valuation and neighborhood analysis is conducted on various market areas within each of the political entities known as Independent School Districts (ISD). Analysis of comparable market sales forms the basis of estimating market activity and the level of supply and demand affecting market prices for any given market area, neighborhood or district. Market sales indicate the effects of these market forces and are interpreted by the appraiser into an indication of market price ranges and indications of property component change considering a given time period relative to the date of appraisal. Cost and Market Approaches to estimate value are the basic techniques utilized to interpret these sales. For multiple family properties the Income Approach to value is also utilized to estimate an opinion of value for investment level residential property.

The first step in neighborhood analysis is the identification of a group of properties that share certain common traits. A "neighborhood" for analysis purposes is defined as the largest geographic grouping of properties where the property's physical, economic, governmental and social forces are generally similar and uniform. Geographic stratification accommodates the local supply and demand factors that vary across a jurisdiction. Once a neighborhood with similar characteristics has been identified, the next step is to define its boundaries. This process is known as "delineation". Some factors used in neighborhood delineation include location, sales price range, lot size, age of dwelling, quality of construction and condition of dwellings, square footage of living area, and story height. Delineation can involve the physical drawing of neighborhood boundary lines on a map, but it can also involve statistical separation or stratification based on attribute analysis. Part of neighborhood analysis is the consideration of discernible patterns of growth that influence a neighborhood's individual market.

Few neighborhoods are fixed in character. Each neighborhood may be characterized as being in a stage of growth, stability or decline. The growth period is a time of development and construction. As new neighborhoods in a community are developed, they compete with existing neighborhoods. An added supply of new homes tends to induce population shift from older homes to newer homes. In the period of stability, or equilibrium, the forces of supply and demand are about equal. Generally, in the stage of equilibrium, older neighborhoods can be more desirable due to their stability of residential character and proximity to the workplace and other community facilities. The period of decline reflects diminishing demand or desirability. During decline, general property use may change from residential to a mix of residential and commercial uses. Declining neighborhoods may also experience renewal, reorganization, rebuilding, or restoration, which promotes increased demand and economic desirability.

Neighborhood identification and delineation is the cornerstone of the residential valuation system at the district. All the residential analysis work done in association with the residential valuation process is neighborhood specific. Neighborhoods are field inspected and delineated based on observable aspects of homogeneity. Neighborhood delineation is periodically reviewed to determine if further neighborhood delineation is warranted.

Whereas neighborhoods involve similar properties in the same location, a neighborhood group is simply defined as similar neighborhoods in similar locations. Each residential neighborhood is assigned to a neighborhood group based on observable aspects of homogeneity between neighborhoods. Neighborhood grouping is highly beneficial in cost-derived areas of limited or no sales, or use in direct sales comparison analysis. Neighborhood groups, or clustered neighborhoods, increase the available market data by linking comparable properties outside a given neighborhood. Sales ratio analysis, discussed below, is performed on a neighborhood basis, and in soft sale areas on a neighborhood group basis.

Highest and Best Use Analysis

The highest and best use of property is the reasonable and probable use that supports the highest present value as of the date of the appraisal. The highest and best use must be physically possible, legal, financially feasible, and productive to its maximum. The highest and best use of residential property is normally its current use. This is due in part to the fact that residential development, in many areas, through use of deed restrictions and zoning, precludes other land uses. Residential valuation undertakes reassessment of highest and best use in transition areas and areas of mixed residential and commercial use. In transition areas with ongoing gentrification, the appraiser reviews the existing residential property use and makes a determination regarding highest and best use. Once the conclusion is made that the highest and best use remains residential, further highest and best use analysis is done to decide the type of residential use on a neighborhood basis. As an example, it may be determined in a transition area that older, non-remodeled homes are economic mis improvements, and the highest and best use of such property is the construction of new dwellings. In areas of mixed residential and commercial use, the appraiser reviews properties in these areas on a periodic basis to determine if changes in the real estate market require reassessment of the highest and best use of a select population of properties.

VALUATION AND STATISTICAL ANALYSIS (Model Calibration)

Cost Schedules

All residential parcels in the district are valued with a replacement cost estimated from identical cost schedules based on the improvement classification system using a comparative unit method. The district's residential cost schedules are estimated from Marshall and Swift, a nationally recognized cost estimator service.

These cost estimates are compared with sales of new improvements and evaluated from year to year and indexed to reflect the local residential building and labor market. Costs may also be indexed for neighborhood factors and influences that affect the total replacement cost of the improvements in a smaller market area based on evidence taken from a sample of market sales. The cost schedules are reviewed regularly as a result of recent state legislation requiring that the appraisal district cost schedules be within a range of plus or minus 10% from nationally recognized cost schedules.

A review of the residential cost schedule is performed annually. As part of this review and evaluation process of the estimated replacement cost, newly constructed sold properties representing various levels of quality of construction in district are considered. The property data characteristics of these properties are verified and photographs are taken of the samples. CAD replacement costs are compared against Marshall & Swift, a nationally recognized cost estimator, and the indicated replacement cost abstracted from these market sales of comparably improved structures. The results of this comparison are analyzed using statistical measures, including stratification by quality and reviewing of estimated building costs plus land to sales prices. As a result of this analysis, a new regional multiplier or economic index factor and indications of neighborhood economic factors are developed for use in the district's cost process.

These new economic indexes estimated and used to adjust the district's cost schedule to be in compliance with local building costs as reflected by the local market.

Sales Information

A sales file for the storage of "snapshot" sales data at the time of sale is maintained for real property. Residential vacant land sales, along with commercial improved and vacant land sales are maintained in a sales information system. Residential improved and vacant sales are collected from a variety of sources, including: district questionnaires sent to buyer and seller, field discovery, protest hearings, Board of Realtor's MLS, various sale vendors, builders, and realtors. A system of type, source, validity and verification codes has been established to define salient facts related to a property's purchase or transfer and to help determine relevant market sale prices. The effect of time as an influence on price was considered by paired comparison and applied in the ratio study to the sales as indicated within each neighborhood area. Neighborhood sales reports are generated as an analysis tool for the appraiser in the development and estimation of market price ranges and property component value estimates. Abstraction and allocation of property components based on sales of similar property is an important analysis tool to interpret market sales under the cost and market approaches to value. These analysis tools help determine and estimate the effects of change, with regard to price, as indicated by sale prices for similar property within the current market.

Monthly time adjustments are estimated based on comparative analysis using paired comparison of sold property. Sales of the same property were considered and analyzed for any indication of price change attributed to a time change or influence. Property characteristics, financing, and conditions of sale were compared for each property sold in the pairing of property to isolate only the time factor as an influence on price.

Statistical Analysis

The residential valuation appraisers perform statistical analysis annually to evaluate whether estimated values are equitable and consistent with the market. Ratio studies are conducted on each of the residential valuation neighborhoods in the district to judge the two primary aspects of mass appraisal accuracy-level and uniformity of value.

Appraisal statistics of central tendency generated from sales ratios are evaluated and analyzed for each neighborhood. The level of appraised values is determined by the weighted mean ratio for sales of individual properties within a neighborhood, and a comparison of neighborhood weighted means reflect the general level of appraised value between comparable neighborhoods.

The appraiser, through the sales ratio analysis process, reviews every neighborhood annually. The first phase involves neighborhood ratio studies that compare the recent sales prices of neighborhood properties to the appraised values of these sold properties. This set of ratio studies affords the appraiser an excellent means of judging the present level of appraised value and uniformity of the sales. The appraiser, based on the sales ratio statistics and designated parameters for valuation update, makes a preliminary decision as to whether the value level in a neighborhood needs to be updated or whether the level of market value in a neighborhood is at an acceptable level.

Market and Cost Reconciliation and Valuation

Neighborhood analysis of market sales to achieve an acceptable sale ratio or level of appraisal is also the reconciliation of the market and cost approaches to valuation. Market factors are developed from appraisal statistics provided from market analyses and ratio studies and are used to ensure that estimated values are consistent with the market and to reconcile cost indicators. The district's primary approach to the valuation of residential properties uses a hybrid cost-sales comparison approach. This type of approach accounts for neighborhood market influences not particularly specified in a purely cost model.

The following equation denotes the hybrid model used:

$$MV = LV + (RCN-AD)$$

Whereas, in accordance with the cost approach, the estimated market value (MV) of the property equals the land value (LV) plus the replacement cost new of property improvements (RCN) less accrued depreciation (AD). As the cost approach separately estimates both land and building contributory values and uses depreciated replacement costs, which reflect only the supply side of the market, it is expected that adjustments to the cost values may be needed to bring the level of appraisal to an acceptable standard as indicated by market sales. Thus, demand side economic factors and influences may be observed and considered. These markets, or location adjustments, may be abstracted and applied uniformly within neighborhoods to account for locational variances between market areas or across a jurisdiction. Whereas, in accordance with the Market Approach, the estimated market value (MV) of the property equals the basic unit of property, under comparison, times the market price range per unit for sales of comparable property. For residential property, the unit of comparison is typically the price per square foot of living area or the price indicated for the improvement contribution. This analysis for the hybrid model is based on both the cost and market approaches as a correlation of indications of property valuation. A significant unknown for these two indications of value is determined to be the rate of change for the improvement contribution to total property value, the measure of change for this property component can best be reflected and based in the annualized accrued depreciation rate. This cost related factor is most appropriately measured by sales of similar property. The market approach, when improvements are abstracted from the sale price, indicates the depreciated value of the improvement component, in effect, measuring changes in accrued depreciation, a cost factor. The level of improvement contribution to the property is measured by abstraction of comparable market sales, which is the property sale price less land value.

The primary unknown for the cost approach is to accurately measure accrued depreciation affecting the amount of loss attributed to the improvements as age increases and condition changes. This evaluation of cost results in the depreciated value of the improvement component based on age and condition. The evaluation of this market and cost information is the basis of reconciliation and indication of property valuation under this hybrid model.

When the appraiser reviews a neighborhood, the appraiser reviews and evaluates a ratio study that compares recent sales prices of properties, appropriately adjusted for the effects of time, within a delineated neighborhood, with the value of the properties* based on the estimated depreciated replacement cost of improvements plus land value. The calculated ratio derived from the sum of the sold properties* estimated value divided by the sum of the time adjusted sales prices indicates the neighborhood level of appraisal based on sold properties. This ratio is compared to the acceptable appraisal ratio, 96% to 100%, to determine the level of appraisal for each neighborhood. If the level of appraisal for the neighborhood is outside the acceptable range of ratios, adjustments to the neighborhood are made.

If reappraisal of the neighborhood is indicated, the appraiser analyzes available market sales, appropriately adjusted for the apparent effects of time, by market abstraction of property components. This abstraction of property components allows the appraiser to focus on the rate of change for the improvement contribution to the property by providing a basis for calculating accrued depreciation attributed to the improvement component.

This impact on value is usually the most significant factor affecting property value and the most important unknown to determine by market analysis. Abstraction of the improvement component from the adjusted sale price for a property indicates the effect of overall market suggested influences and factors on the price of improvements that were a part of this property, recently sold. Comparing this indicated price or value allocation for the improvement with the estimated replacement cost new of the improvement indicates any loss in value due to accrued forms of physical, functional, or economic obsolescence. This is a market driven measure of accrued depreciation and results in a true and relevant measure of improvement marketability, particularly when based on multiple sales that indicate the trending of this rate of change over certain classes of improvements within certain neighborhoods. Based on this market analysis, the appraiser estimates the annual rate of depreciation for given improvement descriptions considering age and observed condition. Once estimated, the appraiser recalculates the improvement value of all property within the sale sample to consider and review the effects on the neighborhood sale ratio. After an acceptable level of appraisal is achieved within the sale sample, the entire neighborhood of property is recalculated utilizing the indicated depreciation rates taken from market sales. This depreciation factor is the basis for trending all improvement values and when combined with any other site improvements and land value, brings the estimated property value through the cost approach closer to actual market prices as evidenced by recent sale prices available within a given neighborhood. Therefore, based on analysis of recent sales located within a given neighborhood, estimated property values will reflect the market influences and conditions only for the specified neighborhood, thus producing more representative and supportable values. The estimated property values calculated for each update neighborhood are based on market indicated factors applied uniformly to all properties within a neighborhood. Finally, with all the market-trend factors applied, a final ratio study is generated that compares recent sale prices with the proposed appraised values for these sold properties. From this set of ratio studies, the appraiser judges the appraisal level and uniformity in both update and non-update neighborhoods and verifies appraised values against overall trends as exhibited by the local market, and finally, for the school district as a whole.

TREATMENT OF RESIDENCE HOMESTEADS

Beginning in 1998, the State of Texas implemented a constitutional classification scheme concerning the appraisal of residential property that receives a residence homestead exemption. Under that law, beginning in the second year a property receives a homestead exemption, increases in the assessed value of that property are "capped." The value for tax purposes (assessed value) of a qualified residence homestead

will be the LESSER of:

- The market value; or
- The preceding year's appraised value;
-

PLUS, 10 percent for each year since the property was re-appraised; PLUS, the value of any improvements added since the last re-appraisal.

Assessed values of capped properties must be recomputed annually. If a capped property sells, the cap automatically expires as of January 1st of the year following sale of the property and the property is appraised at its market value. An analogous provision applies to new homes. While a developer owns them, unoccupied residences may be partially complete and appraised as part of an inventory. This valuation is estimated using the district's land value and the percentage of completion for the improvement contribution that usually is similar to the developer's construction costs as a basis of completion on the valuation date. However, in the year following changes in completion, occupancy, or sale, they are appraised at market value.

INDIVIDUAL VALUE REVIEW PROCEDURES

Field Review

The appraiser identifies individual properties in critical need of field review through sales ratio analysis. Sold properties are field reviewed on a monthly and periodic basis to check for accuracy of data characteristics.

As the district's parcel count has increased through new home construction, and the homes constructed in the boom years of the late 70's and early 80's experience remodeling, the appraisers are required to perform the field activity associated with transitioning and high demand neighborhoods. Increased sales activity has also resulted in a more substantial field effort on the part of the appraisers to review and resolve sales outliers. Additionally, the appraiser frequently field reviews subjective data items such as quality of construction, condition, and physical, functional and economic obsolescence, factors contributing significantly to the market value of the property. After preliminary estimates of value have been determined in targeted areas, the appraiser takes valuation documents to the field to test the computer-assisted values against his own appraisal judgment. During this review, the appraiser is able to physically inspect both sold properties and unsold properties for comparability and consistency of values.

Office Review

Once field review is completed, the appraiser conducts a routine valuation review of all properties as outlined in the discussion of ratio studies and market analysis. Valuation reports comparing previous values against proposed and final values are generated for all residential improved and vacant properties. The percentage of value difference are noted for each property within a delineated neighborhood allowing the appraiser to identify, research and resolve value anomalies before final appraised values are released.

Previous values resulting from a hearing protest are individually reviewed to determine if the value remains appropriate for the current year.

Once the appraiser is satisfied with the level and uniformity of value for each neighborhood within his area of responsibility, the estimates of value go to noticing.

PERFORMANCE TESTS

Sales Ratio Studies

The primary analytical tool used by the appraisers to measure and improve performance is the ratio study. The district ensures that the appraised values that it produces meet the standards of accuracy in several ways. Overall sales ratios are generated for each neighborhood to allow the appraiser to review general market trends within their area of responsibility, and provide an indication of market appreciation over a specified period of time. The PC-based ratio studies are designed to emulate the findings of the state comptroller's annual property value study for category "A" property.

Management Review Process

Once the proposed value estimates are finalized, the appraiser reviews the sales ratios by neighborhood and presents pertinent valuation data, such as weighted sales ratio and pricing trends, to the appraisal supervisors and the Chief Appraiser for final review and approval. This review includes comparison of level of value between related neighborhoods within and across jurisdiction lines.

The primary objective of this review is to ensure that the proposed values have met preset appraisal guidelines appropriate for the tax year in question.

Commercial and Industrial Property Valuation Process

INTRODUCTION

Appraisal Responsibility

This mass appraisal assignment includes all of the commercially described real property which falls within the responsibility of the commercial valuation appraisers of the Starr Central Appraisal District and located within the boundaries of this taxing jurisdiction. Commercial appraisers appraise the fee simple interest of properties according to statute and court decisions. However, the effect of easements, restrictions, encumbrances, leases, contracts or special assessments are considered on an individual basis, as is the appraisal of any non-exempt taxable fractional interests in real property (i.e. certain multi-family housing projects). Fractional interests or partial holdings of real property are appraised in fee simple for the whole property and divided programmatically based on their prorated interests.

Appraisal Resources

Personnel - The improved real property appraisal responsibilities are categorized according to major property types of multi-family or apartment, office, retail, warehouse and special use (i.e. hotels, hospitals and, nursing homes).

Commercial & Personal Property Appraisers Data - The data used by the commercial appraisers includes verified sales of vacant land and improved properties and the pertinent data obtained from each (sales price levels, capitalization rates, income multipliers, equity dividend rates, marketing period, etc.). Other data used by the appraisers includes

actual income and expense data (typically obtained through the hearings process), actual contract rental data, leasing information (commissions, tenant finish, length of terms, etc.), and actual construction cost data. In addition to the actual data obtained from specific properties, market data publications are also reviewed to provide additional support for market trends.'

PRELIMINARY ANALYSIS

Market Study

Market studies are utilized to test new or existing procedures or valuation modifications in a limited sample of properties located in the district and are also considered and become the basis of updating whenever substantial changes in valuation are made. These studies target certain types of improved

property to evaluate current market prices for rents and for sales of commercial and industrial real property. These comparable sale studies and ratio studies reveal whether the valuation system is producing accurate and reliable value estimates or whether procedural and economic modifications are required. The appraiser implements this methodology when developing cost approach, market approach, and income approach models.

Starr CAD coordinates its discovery and valuation activities with adjoining appraisal districts. Numerous field trips, interviews and data exchanges with adjacent appraisal districts have been conducted to ensure compliance with state statutes. In addition, Starr CAD administration and personnel interact with other assessment officials through professional trade organizations including the International Association of Assessing Officers, Texas Association of Appraisal Districts and its subchapter Texas Metropolitan Association of Appraisal Districts and the Texas Association of Assessing Officers. District staff strives to maintain appraisal skills and professionalism by continuing education in the form of courses that are offered by several professional associations such as International Association of Assessing Officers (IAAO), Texas Association of Assessing Officers (TAAO), Texas Association of Appraisal Districts (TAAD) and Texas Department of Licensing and Regulation (TDLR) courses.

VALUATION APPROACH

Land Value

Commercial land is analyzed annually to compare appraised values with recent sales of land in the market area. If appraised values differ from sales prices being paid, adjustments are made to all land in that region. Generally, commercial property is appraised on a price per square foot basis. Factors are placed on individual properties based on corner influence, depth of site, shape of site, easements across site, and other factors that may influence value. The land is valued as though vacant at the highest and best use.

Area Analysis

Area data on regional economic forces such as demographic patterns, regional locational factors, employment and income patterns, general trends in real property prices and rents, interest rate trends, availability of vacant land, and construction trends and costs are collected from private vendors and public sources.

Neighborhood Analysis/Market Areas

For purposes of statistical market analysis and appraisal schedule maintenance, Starr CAD defines market areas by school district boundary lines. Rio Grande City ISD, Roma ISD and San Isidro ISD are the CAD'S three identifiable market areas. These areas consist of a wide variety of property types including multiple-family residential, commercial and industrial. Neighborhood and area analysis involves the examination of how physical economic, governmental and social forces and other influences may affect property values within subgroups of property locations. The effects of these forces are also used to identify, classify, and organize comparable properties into smaller, manageable subsets of the universe of properties known as neighborhoods. In the mass appraisal of commercial and industrial properties these subsets of a universe of properties are generally referred to as market areas, neighborhoods, or economic areas.

Economic areas are defined by each of the improved property use types (apartment, office, retail, warehouse and special use) based upon an analysis of similar economic or market forces. These include but are not limited to similarities of rental rates, classification of projects (known as building class by area commercial market experts), date of construction, overall market activity or other pertinent influences. Economic area identification and delineation by each major property use type is the benchmark of the commercial valuation system.

All income model valuation (income approach to value estimates) is economic area specific. Economic areas are periodically reviewed to determine if redeliberation is required. The geographic boundaries as well as income, occupancy and expense levels and capitalization rates by age within each economic area for all commercial use types and its corresponding income model have been estimated for these properties.

Highest and Best Use Analysis

The highest and best use is the most reasonable and probable use that generates the highest net to land and present value of the real estate as of the date of valuation. The highest and best use of any given property must be physically possible, legally permissible, financially feasible, and maximally productive. For improved properties, highest and best use is evaluated as improved and as if the site were still vacant. This perspective assists in determining if the existing improvements have a transitional use, interim use, nonconforming use, multiple uses, speculative use, is excess land, or a different optimum use if the site were vacant. For vacant tracts of land within this jurisdiction, the highest and best use is considered speculative based on the surrounding land uses. Improved properties reflect a wide variety of highest and best uses which include, but are not limited to: office, retail, apartment, warehouse, light industrial, special purpose, or interim uses. In many instances, the property's current use is the same as its highest and best use. This analysis ensures that an accurate estimate of market value (sometimes referred to as value in exchange) is derived.

On the other hand, value in use represents the value of a property to a specific user for a specific purpose. This perspective for value may be significantly different than market value, which approximates market price under the following assumptions:

(i) no coercion of undue influence over the buyer or seller in an attempt to force the purchase or sale, (ii) well-informed buyers and sellers acting in their own best interests, (iii) a reasonable time for the transaction to take place, and (iv) payment in cash or its equivalent.

Market Analysis

A market analysis relates directly to examining market forces affecting supply and demand. This study involves the relationships between social, economic, environmental, governmental, and site conditions.

Current market activity including sales of commercial properties, new construction, new leases, lease rates, absorption rates, vacancies, allowable expenses (inclusive of replacement reserves), expense ratio trends, capitalization rate studies are analyzed to determine market ranges in price, operating costs and investment return expectations.

DATA COLLECTION / VALIDATION

Data Collection Manuals

Data collection and documentation for Commercial/Industrial property is continually updated, providing a uniform system of itemizing the multitude of components comprising improved properties. All properties located in Starr CAD's inventory are coded according to a specific classification system and the approaches to value are structured and calibrated based on this coding system.

Annually, after the sales of property have been researched, verified, keyed into the database, and quality control has been completed, the sales data is summarized and produced into list form. The confirmed sales reports, known as the Commercial Improved and Vacant Land sales listings categorize the sales by property and use type, and sort the data by location and chronological order. Many of these sales are available to the public for use during protest hearings, and are also used by the Starr CAD appraisers during the hearings process.

Sources of Data

In terms of commercial sales data, Starr CAD receives a copy of the deeds recorded in Starr County and adjoining counties that convey commercially classed properties. These deeds involving a change in commercial ownership are entered into the sales information system and researched in an attempt to obtain the pertinent sale information. Other sources of sale data include the protest hearings process and local, regional and national real estate and financial publications.

For those properties involved in a transfer of commercial ownership, a sale file is produced which begins the research and verification process. The initial step in sales verification involves a computer-generated questionnaire, which is mailed to both parties in the transaction (Grantor and Grantee). If a questionnaire is answered and returned, the documented responses are recorded into the computerized sales database system. If no information is provided, verification of many transactions is then attempted via phone calls to parties thought to be knowledgeable of the specifics of the sale. Other sources contacted are the brokers involved in the sale, property managers or commercial vendors. In other instances, sales verification is obtained from local appraisers or others that may have the desired information. Finally, closing statements are often provided during the hearings process.

The actual closing statement is the most reliable and preferred method of sales verification.

VALUATION ANALYSIS

Model calibration involves the process of periodically adjusting the mass appraisal formulae, tables and schedules to reflect current local market conditions. Once the models have undergone the specification process, adjustments can be made to reflect new construction procedures, materials and/or costs, which can vary from year to year. The basic structure of a mass appraisal model can be valid over an extended period of time, with trending factors utilized for updating the data to the current market conditions. However, at some point, if the adjustment process becomes too involved, the model calibration technique can mandate new model specifications or a revised model structure.

Cost Schedules

The cost approach to value is applied to improve real property utilizing the comparative unit method. This methodology involves the utilization of national cost data reporting services as well as actual cost information on local comparable properties whenever possible. Cost models are typically developed based on the Marshall Valuation Service which indicate estimated hard or direct costs of various improvement types. Cost models include the derivation of replacement cost new (RCN) of all improvements represented within the district. These include comparative base rates, per unit adjustments and lump sum adjustments for variations in property description, design, and types of improvement construction. This approach and analysis also employ the sales comparison approach in the evaluation of soft or indirect costs of construction. Evaluating market sales of newly developed improved property is an important part of understanding total replacement cost of improvements.

What total costs may be involved in the development of the property, as well as any portion of cost attributed to entrepreneurial profit can only be revealed by market analysis of pricing acceptance levels. In addition, market related land valuation for the underlying land value is important in understanding and analyzing improved sales for all development costs and for the abstraction of improvement costs for construction and development. Time and location modifiers are necessary to adjust cost data to reflect conditions in a specific market and changes in costs over a period of time. Because a national cost service is used as a basis for the cost models, locational modifiers and estimates of soft cost factors are necessary to adjust these base costs specifically for various types of improvements located in Starr County. Thusly, local modifiers are additional cost factors applied to replacement cost estimated by the national cost service. Estimated replacement cost new will reflect all costs of construction and development for various improvements located in Starr CAD as of the date of appraisal.

Accrued depreciation is the sum of all forms of loss affecting the contributory value of the improvements. It is the measured loss against replacement cost new taken from all forms of physical deterioration, functional and economic obsolescence. Accrued depreciation is estimated and developed based on losses typical for each property type at that specific age. Depreciation estimates have been implemented for what is typical of each major class of commercial property by economic life categories. Estimates of accrued depreciation have been calculated for improvements with a range of variable years expected life based on observed condition considering actual age. These estimates are continually tested to ensure they are reflective of current market conditions. The actual and effective ages of improvements are noted in the

system. Effective age estimates are based on the utility of the improvements relative to where the improvement lies on the scale of its total economic life and its competitive position in the marketplace. Effective age estimates are considered and reflected based on five levels or rankings of observed condition, given actual age.

Additional forms of depreciation such as external and/or functional obsolescence can be applied if observed. A depreciation calculation override can be used if the condition or effective age of a property varies from the norm by appropriately noting the physical condition and functional utility ratings on the property data characteristics.

These adjustments are typically applied to a specific condition adequacy or deficiency, property type or location and can be developed via ratio studies or other market analyses.

The result of estimating accrued depreciation and deducting that from the estimated replacement cost new of improvements indicates the estimated contributory value of the improvements. Adding the estimated land value, as if vacant, to the contributory value of the improvements indicates a property value by the cost approach. Given relevant cost estimates and market related measures of accrued depreciation, the indicated value of the property by the cost approach becomes a very reliable valuation technique.

Income Models

The income approach to value is applied to those real properties which are typically viewed by market participants as "income producing", and for which the income methodology is considered a leading value indicator. The first step in the income approach pertains to the estimation of market rent on a per unit basis. This is derived primarily from actual rent data furnished by property owners and from local market surveys conducted by the district and by information from area rent study reviews. This per unit rental rate multiplied by the number of units results in the estimate of potential gross rent

A vacancy and collection loss allowance is the next item to consider in the income approach. The projected vacancy and collection loss allowance is established from actual data furnished by property owners and local market survey trends. This allowance accounts for periodic fluctuations in occupancy, both above and below an estimated stabilized level. This feature may also provide for a reasonable lease-up period for multi-tenant properties, where applicable. The market derived stabilized vacancy and collection loss allowance is subtracted from the potential gross rent estimate to yield an indication of estimated annual effective gross rent to the property.

Next, a secondary income or service income is considered and, if applicable, calculated as a percentage of stabilized effective gross rent. Secondary income represents parking income, escalations, reimbursements, and other miscellaneous income generated by the operations of real property. The secondary income estimate is derived from actual data collected and available market information. The secondary income estimate is then added to effective gross rent to arrive at an effective gross income, when applicable.

Allowable expenses and expense ratio estimates are based on a study of the local market, with the assumption of prudent management. An allowance for non-recoverable expenses such as leasing costs and tenant improvements may be included in the expenses. A non-recoverable expense represents costs that the owner pays to lease rental space. Relevant expense ratios are developed for different types of commercial property based on use and market experience.

For instance, retail properties are most frequently leased on a triple-net basis, whereby the tenant is responsible for all operating expenses, such as ad valorem taxes, insurance, and common area and property maintenance. In comparison, a general office building is most often leased on a base year expense stop. This lease type stipulates that the owner is responsible for all expenses incurred during the first year of the lease. As a result, expense ratios are implemented and estimated based on observed market experience in operating various types of commercial property.

Another form of allowable expense is the replacement of short-lived items (such as roof or floor coverings, air conditioning or major mechanical equipment or appliances) requiring expenditures of lump sum costs. When these capital expenditures are analyzed for consistency and adjusted, they may be applied on an annualized basis as stabilized expenses. When performed according to local market practices by commercial property type, these expenses when annualized are known as replacement reserves. For some types of property, typical management does not reflect expensing reserves and is dependent on local and industry practices.

Subtracting the allowable expenses (inclusive of non-recoverable expenses and replacement reserves when applicable) from the annual effective gross income yields an estimate of annual net operating income to the property.

Return rates and income multipliers are used to convert operating income expectations into an estimate of market value for the property under the income approach. These include income multipliers, overall capitalization rates, and discount rates. Each of these multipliers or return rates are considered and used in specific applications. Rates and multipliers may vary between property types, as well as by location, quality, condition, design, age, and other factors. Therefore, application of the various rates and multipliers must be based on a thorough analysis of the market for individual income property types and uses. These procedures are supported and documented based on analysis of market sales for these property types.

Capitalization analysis is used in the income approach models to form an indication of value. This methodology involves the direct capitalization of net operating income as an indication of market value for a specific property.

Capitalization rates applicable for direct capitalization method and yield rates for estimating terminal cap rates for discounted cash flow analysis are derived from the market Sales of improved properties from which actual income and expense data are obtained provide a very good indication of property return expectations a specific market participant is requiring from an investment at a specific point in time. In addition, overall capitalization rates can be derived and estimated from the built-up method (band-of-investment). This method relates to satisfying estimated market return requirements of both the debt and equity positions in a real estate investment. This information is obtained from available sales of property, local lending sources, and from real estate and financial publications.

Rent loss concessions are estimated for specific properties with vacancy problems. A rent loss concession accounts for the impact of lost rental income while the building is moving toward stabilized occupancy. The rent loss is calculated by multiplying the rental rate by the percent difference of the property's stabilized occupancy and its actual occupancy. Build out allowances (for first generation space or retrofit/second generation space as appropriate) and leasing expenses are added to the rent loss estimate. The total adjusted loss from these real property operations is discounted using an acceptable risk rate. The discounted value (inclusive of rent loss due to extraordinary vacancy, build out allowances and leasing commissions) becomes the rent loss concession and is deducted from the value indication of the property at stabilized occupancy. A variation of this technique allows a rent loss deduction to be estimated for every year that the property's actual occupancy is less than stabilized occupancy.

Sales Comparison (Market) Approach

Although all three of the approaches to value are based on market data, the Sales Comparison Approach is most frequently referred to as the Market Approach. This approach is utilized not only for estimating land value but also in comparing sales of similarly improved properties to parcels on the appraisal roll. As previously discussed in the Data Collection / Validation section of this report, pertinent data from actual sales of properties, both vacant and improved, is pursued throughout the year in order to obtain relevant information which can be used in all aspects of valuation. Sales of similarly improved properties can provide a basis for the depreciation schedules in the Cost Approach, rates and multipliers used in the Income Approach, and as a direct comparison in the Sales Comparison Approach. Improved sales are also used in ratio studies, which afford the appraiser an excellent means of judging the present level and uniformity of the appraised values.

Final Valuation Schedules

Based on the market data analysis and review discussed previously in the cost, income and sales approaches, the cost and income models are calibrated and finalized. The calibration results are keyed to the schedules and models in the information system for utilization on all commercial properties in the district. Market factors reflected within the cost and income approaches are evaluated and confirmed based on market sales of commercial and industrial properties. The appraisers review the cost, income, and sales comparison approaches to value for each of the types of properties with available sales information. The final valuation of a property is estimated based on reconciling these indications of value considering the weight of the market information available for evaluation and analysis in these approaches to value.

Statistical and Capitalization Analysis

Statistical analysis of final values is an essential component of quality control. This methodology represents a comparison of the final value against the standard and provides a concise measurement of the appraisal performance. Statistical comparisons of many different standards are used including sales of similar properties, the previous year's appraised value, audit trails, value change analysis and sales ratio analysis.

Appraisal statistics of central tendency and dispersion generated from sales ratios are calculated for each property type with available sales data. These summary statistics including, but not limited to, the weighted mean, provide the appraisers an analytical tool by which to determine both the level and uniformity of appraised value of a particular property type. The level of appraised values can be determined by the weighted mean for individual properties within a specific type, and a comparison of weighted means can reflect the general level of appraised value.

The appraisers review every commercial property type annually through the sales ratio analysis process. The first phase involves ratio studies that compare the recent sales prices of properties to the appraised values of the sold properties. This set of ratio studies affords the appraiser an excellent means of judging the present level of appraised value and uniformity of the appraised values. The appraiser, based on the sales ratio statistics and designated parameters for valuation update, makes a preliminary decision as to whether the value level of a particular property type needs to be updated in an upcoming reappraisal, or whether the level of market value is at an acceptable level.

Potential gross rent estimates, occupancy levels, secondary income, allowable expenses (inclusive of non-recoverable and replacement reserves), net operating income and capitalization rate and multipliers are continuously reviewed. Income model estimates and conclusions are compared to actual information obtained on individual commercial and industrial income properties during the protest hearings process, as well as with information from published sources and area property managers and owners.

INDIVIDUAL VALUE REVIEW PROCEDURES

Field Review

The date of last inspection, extent of that inspection, and the Starr Central CAD appraiser responsible are listed in the system. If a property owner disputes the district's records concerning this data in a protest hearing, our records may be altered based on the credibility of the evidence provided. Normally, a new field check is then requested to verify this information for the current year's valuation or for the next year's valuation. In addition, if a building permit is filed for a particular property indicating a change in characteristics, that property is added to a work file for review

Commercial appraisers are somewhat limited in the time available to field review all commercial properties of a specific use type. However, a major effort is made by appraisers to field review as many properties as possible or economic areas experiencing large numbers of remodels, renovations, or retrofits, changes in occupancy levels or rental rates, new leasing activity, new construction, or wide variations in sale prices. Field review of real property accounts is accomplished while business personal property is reviewed and inspected in the field. Additionally, the appraisers frequently field review subjective data items such as building class, quality of construction (known as cost modifiers), condition, and physical, functional and economic obsolescence factors contributing significantly to the market value of the property. In some cases field reviews are warranted when sharp changes in occupancy or rental rate levels occur between building classes or between economic areas. With preliminary estimates of value in these targeted areas, the appraisers test computer assisted values against their own appraisal judgment. While in the field, the appraisers physically inspect sold and unsold properties for comparability and consistency of values.

Office Review

Office reviews are completed on properties subject to field inspections and are performed in compliance with the guidelines required by the existing classification system. Office reviews are typically limited by the available market data presented for final value analysis. These reviews summarize the pertinent data of each property as well as comparing the previous value to the proposed value conclusions of the various approaches to value. These evaluations and reviews show proposed value changes, income model attributes or overrides, economic factor (cost overrides) and special factors affecting the property valuation such as new construction status, and a three years sales history (USPAP property history requirement for non-residential property). The appraiser may review methodology for appropriateness to ascertain that it was completed in accordance with USPAP or more stringent statutory and district policies. This review is performed after preliminary ratio statistics have been applied. If the ratio statistics are generally acceptable overall the review process is focused primarily on locating skewed results on an individual basis.

Previous values resulting from protest hearings are individually reviewed to determine if the value remains appropriate for the current year based on market conditions. Each appraiser's review is limited to properties in their area of responsibility by property type (improved) or geographic area (commercial vacant land).

Once the appraiser is satisfied with the level and uniformity of value for each commercial property within their area of responsibility, the estimates of value go to noticing. Each parcel is subjected to the value parameters appropriate for its use type.

PERFORMANCE TESTS

The primary tool used to measure mass appraisal performance is the ratio study. A ratio study compares appraised values to market prices. In a ratio study, market values (value in exchange) are typically represented with the range of sale prices, i.e. a sales ratio study. Independent, expert appraisals may also be used to represent market values in a ratio study, i.e. an appraisal ratio study. If there are not enough examples of market price to provide necessary representativeness, independent appraisals can be used as indicators for market value. This can be particularly useful for commercial or industrial real property for which sales are limited. In addition, appraisal ratio studies can be used for properties statutorily not appraised at market value, but reflect the use-value requirement. An example of this are multi-family housing projects subject to subsidized rent provisions or other governmental guarantees as provided by legislative statutes (affordable housing) or agricultural lands to be appraised on the basis of productivity or use value.

Starr CAD has adopted the policies of the IAAO STANDARD ON RATIO STUDIES, circa July 1999 regarding its ratio study standards and practices. Ratio studies generally have six basic steps: (1) determination of the purpose and objectives, (2) data collection and preparation, (3) comparing appraisal and market data, (4) stratification, (5) statistical analysis, and (6) evaluation and application of the results.

Sales Ratio Studies

Sales ratio studies are an integral part of estimating equitable and accurate market values, and ultimately property assessments for these taxing jurisdictions.

The primary uses of sale ratio studies include the determination of a need for general reappraisal; prioritizing selected groups of property types for reappraisal; identification of potential problems with appraisal procedures; assist in market analyses; and, to calibrate models used to estimate appraised values during valuation or reappraisal cycles. However, these studies cannot be used to judge the accuracy of an individual property appraised value. The Starr-Central Appraisal Review Board may make individual value adjustments based on unequal appraisal (ratio) protest evidence submitted on a case-by-case basis during the hearing process.

Overall sales ratios are generated by use type semi-annually (or more often in specific areas) to allow appraisers to review general market trends in their area of responsibility and for the Property Study from the Property Tax Assistance Division of the Comptroller's Office. On the desktop, this may be customized and performed by building class and age basis. In many cases, field checks may be conducted to ensure the ratios produced are accurate and the appraised values utilized are based on accurate property data characteristics. These ratio studies aid the appraisers by providing an indication of market activity by economic area or changing market conditions (appreciation or depreciation).

Comparative Appraisal Analysis

The commercial appraiser performs an average unit value comparison in addition to a traditional ratio study. These studies are performed on commercially classed properties by property use type (such as apartment, office, retail and warehouse usage or special use). The objective to this evaluation is to determine appraisal performance of sold and unsold properties. Appraisers' average unit prices of sales and average unit appraised values of the same parcels and the comparison of average value changes of sold and unsold properties. These studies are conducted on substrata such as building class and on properties located within various economic areas. In this way, overall appraisal performance is evaluated geographically, by specific property type to discern whether sold parcels have been selectively appraised. When sold parcels and unsold parcels are appraised equally, the average unit values are similar. These sales and equity studies are performed prior to final appraisal and to annual noticing.

Business Personal Property Valuation Process

INTRODUCTION

Appraisal Responsibility

There are four different personal property types appraised by the district's personal property section: Business Personal Property accounts; leased assets; vehicles and aircraft; and multi-location assets.

- **Personnel** – Griselda Quezada, *Personal Property Appraiser*
- **Data** - A common set of data characteristics for each personal property account in Starr CAD is collected in the field and data entered using a pen pad. The property characteristic data drives the computer-assisted personal property appraisal (CAPPA) system. The personal property appraisers collect the field data and maintain electronic property files making updates and changes gathered from field inspections, newspapers, property renditions, sales tax permit listing and interviews with property owners.

VALUATION APPROACH

SIC Code Analysis

Business personal property is classified and utilizes a four-digit numeric codes, called Standard Industrial Classification (SIC) codes that were developed by the federal government to describe property. These classifications are used by Starr CAD to classify personal property by business type

SIC code identification and delineation is the cornerstone of the personal property valuation system at the district. All of the personal property analysis work done in association with the personal property valuation process is SIC code specific. SIC codes are delineated based on observable aspects of homogeneity and business use.

Highest and Best Use Analysis

The highest and best use of property is the reasonable and probable use that supports the greatest income and the highest present value as of the date of the appraisal. The highest and best use must be physically possible, legal, financially feasible, and productive to its maximum. The highest and best use of personal property is normally its current use.

DATA COLLECTION/VALIDATION

Data Collection Procedures

Personal property data collection procedures are published and distributed to all appraisers involved in the appraisal and valuation of personal property. The appraisal procedures are reviewed and revised to meet the changing requirements of field data collection.

Sources of Data

Business Personal Property

The district's property characteristic data was collected through a massive field data collection effort coordinated by the district over the recent past and from property owner renditions. From year to year, reevaluation activities permit district appraisers to collect new data via an annual field inspection. This project results in the discovery of new businesses, changes in ownership, relocation of businesses, and closures of businesses not revealed through other sources. Tax assessors, city and local newspapers, and the public often provide the district information regarding new personal property and other useful facts related to property valuation.

Vehicles

An outside vendor provides Starr CAD with a listing of vehicles within the jurisdiction. The vendor develops this listing from the Texas Department of Transportation (TX-DOT) Title and Registration Division records. Other sources of data include property owner renditions and field inspections.

Leased and Multi-Location Assets

The primary source of leased and multi-location assets is property owner renditions of property. Other sources of data include field inspections.

VALUATION AND STATISTICAL ANALYSIS (model calibration)

Cost Schedules

Cost schedules are developed based on the SIC code by the Property Tax Assistance Division of the Comptroller's Office and by district personal property valuation appraisers. The cost schedules are developed by analyzing cost data from property owner renditions, hearings, state schedules, and published cost guides. The cost schedules are reviewed as necessary to conform to changing market conditions.

The schedules are typically in a price per square foot format, but some exception SIC's are in an alternate price per unit format, such as per room for hotels.

Statistical Analysis

Summary statistics including, but not limited to, the median, weighted mean, and standard deviation provide the appraisers an analytical tool by which to determine both the level and uniformity of appraised value by SIC code. Review of the standard deviation can discern appraisal uniformity within SIC codes.

Depreciation Schedule and Trending Factors:

Business Personal Property

Starr CAD's primary approach to the valuation of business personal property is the cost approach. The replacement cost new (RCN) is either developed from property owner reported historical cost or from CAD developed valuation models. The trending factors used by the CAD to develop RCN are based on published valuation guides. The percent good depreciation factors used by Starr CAD are also based on published valuation guides. The index factors and percent good depreciation factors are used to develop present value factors

$$(PVF), \text{ by } PVF \gg \text{INDEX FACTOR} \times \text{PERCENT GOOD FACTOR}$$

The PVF is used as an "express" calculation in the cost approach. The PVF is applied to reported historical cost as follows:

$$\text{MARKET VALUE ESTIMATE} = PVF \times \text{HISTORICAL COST}$$

This mass appraisal PVF schedule is used to ensure that estimated values are uniform and consistent within the market and reflect current economic pressures of supply and demand.

Computer Assisted Personal Property Appraisal (CAPPA)

The CAPPA valuation process has two main objectives: 1) Analyze and adjust estimated asset cost with existing SIC models. 2) Develop new models for business classifications not previously integrated into CAPPA. The delineated sample is reviewed for accuracy of SIC code, square footage, field data, and original cost information. Models are created and refined using actual original cost data to derive a typical replacement cost new (RCN) per square foot for a specific category of assets. The RCN per square foot is depreciated by the estimated age using the depreciation table adopted for the tax year.

CAPPA model values are used in the general business personal property valuation program to estimate the value of new accounts for which no property owner's rendition is filed. Model values are also used to establish tolerance parameters for testing the valuation of property for which prior data years' data exist or for which current year rendered information is available. The calculated current year value or the prior year's value is compared to the indicated model value by the valuation program. If the value being tested is within an established acceptable percentage tolerance range of the model value, the account passes that range check and moves to the next valuation step. If the account fails the tolerance range check, it is flagged for individual review. Allowable tolerance ranges may be adjusted from year to year depending on the analysis of the results of the prior year.

Vehicles

Value estimates for vehicles are provided by an outside vendor and are based on Red Book published book values, and there are also considerations available for high mileage. Vehicles that are not valued by the vendor are valued by an appraiser using PVF schedules or published guides.

Leased and Multi-Location Assets

Leased and multi-location assets are valued using the PVF schedules mentioned above. If the asset to be valued in this category is a vehicle, then Red Book published book values are used. Assets that are not valued by the vendor are valued by an appraiser using PVF schedules or published guides.

INDIVIDUAL VALUE REVIEW PROCEDURES

Office Review

Business Personal Property

A district valuation computer program exists in a mainframe environment that identifies accounts in need of review based on a variety of conditions. Property owner renditions, accounts with field or other data changes, accounts with prior hearings, new accounts, and SIC cost table changes are all considered. The accounts are processed by the valuation program and pass or fail preset tolerance parameters by comparing appraised values to prior year and model values. The appraisers review accounts that fail the tolerance parameters.

PERFORMANCE TESTS

Ratio Studies

Each year the Property Tax Assistance Division of the state comptroller's office conducts a property value study (PVS). The PVS is a ratio study used to gauge appraisal district performance. Results from the PVS play a part in school funding. Rather than a sales ratio study, the personal property PVS is a ratio study using state cost and depreciation schedules to develop comparative personal property values. These values are then compared to Starr CAD's personal property values and ratios are indicated

STAFF PROVIDING SIGNIFICANT MASS APPRAISAL ASSISTANCE

NAME	TITLE	TDLR NUMBER
Sonia R. Garza	Chief Appraiser, RPA	74212
Karina Mayte Gomez	Asst. Chief Appraiser, RPA	75294
Angel A. Balderas	Appraiser, RPA	74357
Abel A. Pena	Appraiser	73289
Anna Villarreal	Data /Appraiser, RPA	75539
Rafael Rendon	Appraiser	75769
Jorge Luis Villarreal Jr.	Appraiser, RPA	76055
Araceli R. Saenz	Data/Appraiser RPA	76090
Sandra J. Giles	Appraiser	63680
Eduardo Rivas, Jr.	Appraiser, RPA	77000
Griselda Quezada	BPP Appraiser	77967
Garza Baldemar	Appraiser	78464
Ana A Sepulveda	Appraiser	78484

EXHIBIT "A"

APPRAISAL SECTIONS:

AREA 1: ROMA ISD

AREA 2: RIO ISD

AREA 3: SAN ISIDRO ISD

REAPPRAISAL CALENDER:

<u>YEAR</u>	<u>AREA</u>
2027	E/2 Area 1
	E/2 Area 2
	S/2 Area 3
2028	W/2 Area 1
	W/2 Area 2
	N/2 Area 3

EXHIBIT A 2027-2028 REAPPRAISAL PLAN MAP

APPRAISAL SECTIONS

AREA 1: ROMA ISD
AREA 2: RIO GRANDE ISD
AREA 3: SAN ISIDRO ISD

REAPPRAISAL CALENDAR

YEAR	AREA
2027	E/2 of AREA 1
	E/2 of AREA 2
	S/2 of AREA 3
2028	W/2 of AREA 1
	W/2 of AREA 2
	N/2 of AREA 3

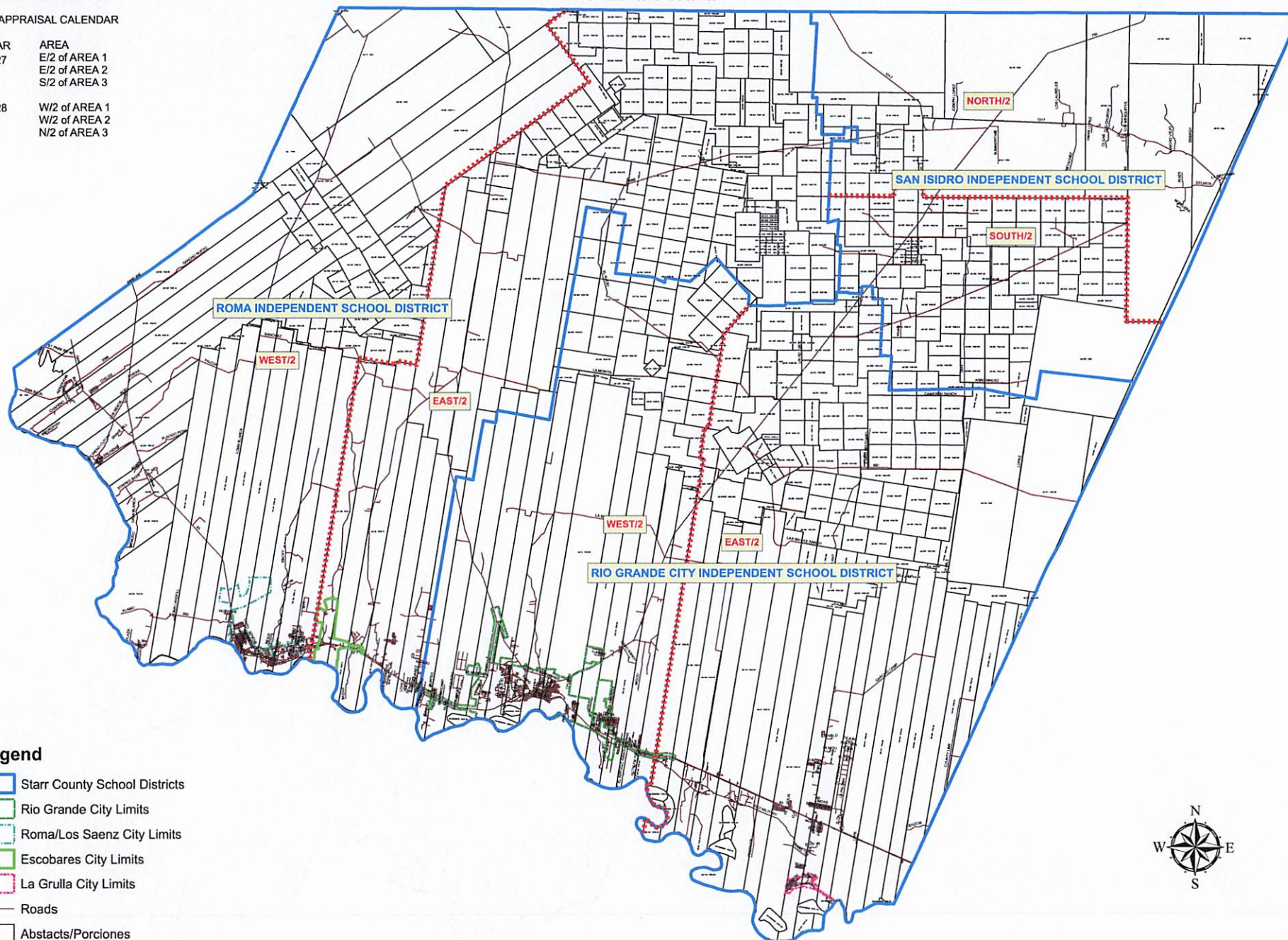


EXHIBIT “B”

**WARDLAW APPRAISAL GROUP
2027-2028
REAPPRAISAL PLAN
(ATTACHED)**

WARDLAW APPRAISAL GROUP

CLIENT APPRAISAL DISTRICT

Reappraisal Plan 2027-2028

Contract Valuation Support

Appraisal Responsibility

Wardlaw Appraisal Group, LC (Wardlaw) provides complex property appraisal support services for the client County and Central Appraisal Districts (CAD). Client CADs contract with Wardlaw because we have specialized expertise that the CADs may not have in appraising these complex properties. The complex properties Wardlaw appraises are generally referred to as mineral, utility, industrial, commercial, and real properties and fall under the Texas Property Tax Classification Categories F, G, J, and L.

The specific contract between Wardlaw and each client CAD specifies appraisal responsibilities. Generally, those responsibilities include discovering, inspecting, appraising, maintaining, and providing ownership and valuation records for the specific properties that are the subject of the contract. The contracts establish that Wardlaw acts as an agent of the CAD to provide many of the appraisal and support services required under the Texas Property Tax Code and the Uniform Standards of Professional Appraisal Practice (USPAP). This document details the reappraisal practices that Wardlaw performs on behalf of our clients and is intended to be incorporated by the CADs into their own Reappraisal Plan.

Appraisal Calendar & Timetable

Wardlaw adheres to the property tax calendar as established by the State of Texas Property Tax Code. The Wardlaw appraisal calendar generally follows this schedule:

<u>Convert to New Year Database:</u>	~ October 1
<u>October – March:</u>	Field Inspections of Properties for upcoming tax year
<u>January 1:</u>	Beginning of the Tax Year
<u>Prior to January 31:</u>	Mail Rendition Request Letters & Operator Data Requests
<u>January 31:</u>	Last day for receipt of 25.25 protests from prior year
<u>April 15th to May 15th:</u>	Renditions due (dates dependent property type)
<u>Around April 15:</u>	Send out Preliminary Mineral Appraisals
<u>Around May 1:</u>	Mail Initial Notices of Appraised Value
<u>May 1:</u>	Begin Equalization Process. Work with property owners to settle formal and informal protests
<u>By June 1:</u>	Mail Remaining Notices of Appraised Value
<u>Late June – Early July:</u>	Informal and Formal ARB Hearings
<u>Mid-July:</u>	Deliver Totals and Certified Rolls & Export to CADs
<u>August – November:</u>	Process Property Supplements, Additions & Deletions
<u>Ongoing:</u>	New Property Discovery

Equalization Period

The equalization period begins when the Chief Appraiser submits the appraisal records to the Appraisal Review Board (ARB) for review. Preliminary values established by the 25.19 Notices of Appraised Value are subject to change during this period. These changes can be initiated by the property owner through formal or informal protests. The changes can also be initiated by Wardlaw if new information regarding a property becomes available. Formal and informal protests regarding mineral, utility, industrial, commercial, and real properties are handled directly by Wardlaw within the timetables established by the Property Tax Code. Wardlaw attempts to contact protesting taxpayers so that we can;

- 1) Provide the taxpayer an opportunity to explain the reason for their protest,*
- 2) Explain the appraisal methodology and appraisal parameters used on each protested property,*
- 3) Consider whether the preliminary appraisal should be adjusted considering taxpayer evidence, and*
- 4) Provide settlement and withdrawal paperwork to the taxpayer if appropriate.*

Wardlaw directly responds to taxpayer requests for appraisal information and supporting appraisal documentation by providing the requested information in a timely manner. Wardlaw then represents the CAD before the ARB to justify the appraised values of all protested properties that fall under the mineral, utility, industrial, commercial, and real estate contracts.

Documentary evidence of formal and informal changes is then provided to the CAD and ARB in the form of Withdrawal of Protest Settlement waivers on formally protested accounts. The final values are then delivered for certification.

Minerals (Oil and Gas Reserves) Valuation Process

Appraisal Responsibility

Minerals-in-place (oil and gas reserves) are real property classified as Category G property under the Texas Property Tax Code. As a commodity, minerals-in-place are part of a national market, so there is no local market area to consider. Wardlaw performs an appraisal as of January 1 each year on every producing mineral property in the CAD to determine the market value of the oil and gas mineral reserves for ad valorem tax purposes.

DCF analysis is the primary method used for appraising mineral properties. The Market Data Comparison Method of Appraisal (Section 23.013) can be used when appropriate and when the necessary data is available. However, because the sales and purchase prices of oil and gas properties are not generally disclosed, the Market Data Comparison method is seldom used. The Cost Method of Appraisal (Section 23.011) does not estimate the market value as defined in Section 1.04 of the Texas Property Tax Code, and because the cost of drilling a well is unrelated to the value of the production, the cost method is invalid.

Discounted Cash Flow (DCF) analysis is the Income Method of Appraisal (Section 23.012 of the Texas Property Tax Code) and is used as the most appropriate technique for determining the market value of mineral properties. WAG uses DCF analysis to appraise every producing lease in the appraisal districts we support. The appraised value of each lease is distributed to each working interest, royalty interest, and overriding royalty interest owner based upon their decimal interest in the lease.

Mineral interests are commonly divided into property ownership interests known as working interests, overriding interests, and royalty interests. The valuation of each type of interest begins with the valuation of the producing well on the mineral lease. That value is then allocated to the property ownership interests based on the decimal ownership value identified in the division orders for each lease. It is the goal and purpose of the CAD to identify every producing mineral property within the district and estimate the market value of each property listed on the roll.

Appraisal Resources

Personnel – Wardlaw provides adequate personnel to meet all contract appraisal requirements.

Data – A common set of production data for each mineral property account in each CAD is collected from the Texas Railroad Commission Records and entered into the appraisal firm's database. The property characteristic data is gleaned from the production data and drives the computer-assisted mineral property appraisal system. Railroad Commission records are searched to identify new leases as of January 1 of each year, and descriptive information is gathered to determine the lease's location within the CAD jurisdictional boundaries. Records are also reviewed for changes in production for existing wells, for abandoned wells, and for non-producing wells with salvage value for the equipment, tanks, and tubular goods. Production history for each mineral lease is gathered from Enverus (formerly Drilling Info and HPDI), S&P Global Commodity Insights (formerly IHS Markit / Petroleum Information), and the Texas Railroad Commission. Division Orders on each lease are requested annually from lease operators and checked against the existing division orders for changes as well as for accuracy of owner name, address, and ownership percentage interest. To help determine operating expense information on each active lease, lease-specific operating expenses are requested annually. A Confidential Lease Operating Expense Detail request letter is e-mailed or mailed to the operators or agents representing operators requesting lease-specific operating expenses.

- To assist with the economic parameters influencing these properties, general economic data is gathered for the valuation process. The method of appraisal for minerals-in-place is the discounted cash flow analysis, which evaluates the net present value of future income derived from operating the lease. Current interest rates, market rates of return, and levels of investment discounting are factors to consider when evaluating the returns required to attract investment capital for this type of property. The annual capitalization rates are calculated using the "Manual for Discounting Oil and Gas Income" as developed by the Texas Comptroller's Office. Data are obtained from the Kroll Cost of Capital Navigator (formerly the Duff & Phelps Valuation Handbook and Ibbotson's SBBI Valuation Edition), the Wall

Street Journal, the Standard & Poor's Bond Guide, and Value Line Investment Survey "Ratings and Reports".

▪ **Valuation and Statistical Analysis (model calibration)**

Pricing, Operating Expenses, and Reserve Analysis

Crude oil and natural gas prices are required information for the valuation of mineral property because they are necessary to determine income from the lease and the economic life of production from the lease. The crude oil and natural gas sales prices used for the first year of the appraisal analysis are based on the previous year's average price multiplied by the Price Adjustment Factor (PAF). The prices are then escalated or de-escalated for five (5) years according to the Texas Property Tax Code Sec. 23.175 Section (a). Lease operating expenses are estimated based on rendered information, actual operating costs and expenses, and from surveys of lease operators in the CAD. The January 1 production starting rate is based on the actual production rate or upon a projection of past average production. The past oil and gas production history of the lease is analyzed to estimate the future rate of production decline of the lease. Other considerations include past lease expenses and recent operating parameters such as water production, workover operations, and secondary recovery efforts. Current operating income and expenses for the lease are calculated in a discounted cash flow model used by the appraiser to evaluate and estimate the net present value of producing oil and gas income from the lease. Discount rates are established for each lease based upon the particular risks inherent in the production of oil and gas from that property. The discounted cash flow model allows the appraiser to establish the current market value of the lease based on the discounted value of the estimated future recoverable reserves. This methodology is approved and recommended by the Property Tax Division of the Comptroller's Office and is recognized by industry standards as a method of appraisal. The appraisal firm has used the discounted cash flow model to estimate the market value of each lease in each CAD.

Value Review Procedures

The method of value review for this type of property is based on an assessment of factors estimated in the discounted cash flow analysis, such as the discount rate, production, product prices, and operating expenses. Evaluation and verification of these economic factors, as to their validity in current economic times and based on current capital requirements for investment in this type of property, are reconfirmed and reviewed for reasonableness. Sales of mineral properties are considered, but adequate sales data are usually unavailable. The market for this type of property is neither active nor efficient. There are very few participants, and pricing information is mostly confidential. There is no source to track these transactions, and property owners are reluctant to disclose market information about prices paid or transaction terms, making it difficult to confirm sales. Because of the lack of market sales for mineral properties, appraised values are regularly compared to similar properties within the same production field, exploration formation field, strata of strata, or production history and expense level. The State Comptroller of Public Accounts' property value Ratio studies serve as a basis for comparison of the evaluation level

and uniformity of appraisal. When market sales are available the ratio study is based on a comparison of the appraised value to the sale price. For a mineral property that lacks available market sales, a ratio study compares another appraisal opinion with the district opinion to determine the level and uniformity of the appraisal. The Comptroller's Property Tax Assistance Division (PTAD) conducts biennial ratio studies of selected mineral properties to gauge the district's appraisal performance. PTAD utilizes the same valuation methodology as Wardlaw to appraise individual mineral properties. This opinion of value is then utilized as market evidence with the same significance as if the property had been sold for that value. The estimated value of the property in each CAD is compared to the appraisal by the PTAD to calculate the ratio and the indicated level of appraisal. This study indicates the median and mean levels of appraisal for mineral property and is considered reliable as a review and evaluation tool.

Utility, Industrial & Commercial Property Valuation Process

▪ Appraisal Responsibility

Utility, Industrial, and Commercial properties are the tangible assets of various businesses, including electric production, transmission, and distribution companies, railroads, petroleum product gathering and delivery pipelines, telephone and communication providers, and others. Utility properties are identified in the Texas Property Tax Code as Category J property. Industrial properties are identified under the Texas Property Tax Code as categories L2 (Industrial, Personal), F2 (Industrial, Real), and L1 (Commercial). The valuation of these properties is considered to be complex due to the involvement of both tangible and intangible property elements that comprise these businesses and due to the size of some of the utilities that are regional and national companies. The appraisal of these companies becomes complex when considering the valuation of the property as a unit in place, evaluating the property by the approaches to value at the company level. The appraisal district does not have personnel qualified to perform this type of appraisal. An appraisal firm is employed to provide the expertise to perform this type of appraisal. Once the estimated value of the unit is determined by the appraisal firm, that estimated market value is allocated based on the tangible property assets that are located within each CAD.

▪ Appraisal Resources

Personnel – Wardlaw provides adequate personnel to meet all contract appraisal requirements.

Data - A common set of data characteristics for each utility, industrial, and commercial property account in each CAD is collected from the various government regulatory agency records, field inspections, data resources, and property owner renditions. This data is entered into the appraisal firm's computer. Individual company financial information is gathered from industry-specific government filings, such as Federal Energy Regulatory Commission Reports, Securities and Exchange Commission Form 10-K filings, Railroad Commission filings, and Public Utility Commission publications. Other company information is gathered from annual reports, internal appraisals, and other in-house and industry publications. Property owner renditions are

requested to document and list property owned and located within our jurisdictions (e.g., track mileage, number of meters, pipeline size and mileage, substation and transmission capacity, etc.). The property characteristic data drives the computer-assisted appraisal of the property.

The appraisal of utility and industrial property uses a three-approach analysis to form an opinion of value. Financial and capital market information is essential to understanding the factors that affect the valuation of complex property. It is necessary to gather financial data to assess investor and corporate attitudes toward capital return expectations and to consider return components such as current interest rates, capital debt structure, bond market rates, and capital supply and demand trends. These financial factors determine overall return rates and capital structure for these companies and affect capitalization rates. The weighted average cost of capital is the most commonly used method for estimating capitalization rates for utility properties. Capitalization rates are estimated using capital return expectations from various publications: the Kroll Cost of Capital Navigator (formerly the Duff & Phelps Valuation Handbook), Wall Street Journal, Mergent Bond Record, Moody's Corporate Bond Yield Averages, and Standard & Poor's Capital IQ. Industry-specific information is also gathered from websites, publications, periodicals, and reference manuals. Wardlaw then estimates the capitalization rate for utility appraisal under the income approach.

▪ **Valuation And Statistical Analysis (Model Calibration)**

Approaches to Valuation, Reconciliation

Valuation of tangible assets for utility and industrial companies relies primarily on indications of value based on the cost and income approaches to value under the unit value approach. This methodology involves developing and estimating market value considering the entirety of the company's tangible assets and resolving an allocated value for that portion of specific tangible assets located in particular tax jurisdictions. The valuation opinion is based on three approaches analysis utilized for the indicated unit appraisal of all company tangible assets, then an estimated allocation of unit value for only assets located in the district and particular jurisdictions. This methodology is approved and recommended by the Property Tax Assistance Division of the Comptroller's Office and is an accepted standard within the industry and appraisal community.

Value Review Procedures

Review of the valuation of utility property is based on verifying economic and financial factors utilized in the methodology as relevant to current capital markets and that these factors reflect current return expectations. Market sales of utility properties do occur and are a good source for comparison and review when the price of the tangible assets can be abstracted or allocated from the selling price. Typically, the sale of utility companies involves significant intangible property assets such as customer base, goodwill, favorable contracts, name recognition, etc., and the contributory value and allocation of these assets are subjective and unknown. In Texas, intangible property assets are exempt from taxation and must not be included on the appraisal roll as taxable property. Therefore, because of the lack of specific market information on sales of utility properties, appraised value is regularly compared to the valuation of similar properties within the same set of property characteristics, business type, and size. More of comparison for equity

concerns on valuation rather than the full recognition of a market level certainty about appraisal level. Of course, the estimated value is based on a recognized methodology for considering the valuation of these tangible assets, but true market confirmation of these factors may not be possible due to minimal market knowledge and experience.

Ratio studies are also a method of review for the relevance of appraisal valuation to market value. Again, in the absence of full disclosure of prices paid and without the abstraction of prices paid for the tangible asset components from recent utility property acquisitions or sales, market-based analysis and review are not possible. Ratio studies for utility property must rely on a comparison of one appraisal opinion as the basis for the reasonable property valuation with the district's appraised value to determine the ratio for level and uniformity of appraisal. The PTAD conducts the annual ratio study of selected utility properties to gauge the appraisal district's performance. The PTAD utilizes the same valuation methodology to estimate appraisal valuations of utility properties, and the results, when compared to the appraisal valuation estimated by the appraisal firm for these properties, yield ratios. This ratio study of certain utility properties indicates the level and uniformity of appraisal for this category of property.

STAFF PROVIDING SIGNIFICANT MASS APPRAISAL ASSISTANCE

Attachment A

Wardlaw Appraisal Group Personnel

PROPERTY TAX APPRAISER CERTIFICATION		
TDLR #	NAME	TYPE
74200	CRAIN, MALLORY M.	APPRAISER, RPA
74717	SHERWIN, PROCTOR	APPRAISER, RPA
66026	WARDLAW, MARGARET A.	APPRAISER, RPA
67635	VILLARREAL, MARTIN	APPRAISER, RPA
68139	WARDLAW, MALCOLM	APPRAISER, 3
77317	MADDIN, ELIZABETH	APPRAISER, 3
78046	MCGINNIS, CLAIRE	APPRAISER, 3
77854	CASTRO, AMANDA	APPRAISER, 3
PROFESSIONAL ENGINEERING CERTIFICATION		
PE#	NAME	BRANCH
76914	WARDLAW, MARGARET PEGGY ANNE	PETROLEUM
PROFESSIONAL ENGINEERING FIRM CERTIFICATION		
FIRM #	FIRM NAME	
5194	WARDLAW APPRAISAL GROUP LC	

Starr Central Appraisal District



Sonia R. Garza, CCA, RPA, RTA
Chief Appraiser

RESOLUTION NO. 2026 – 3

WHEREAS Section 6.05 (i) of the Texas Property Tax Code requires that the Starr Central Appraisal District Board of Directors (B.O.D.) biennially approve a written plan for Periodic reappraisal of all property within the boundaries of the district, according to Section 25.18 of the Texas Property Tax Code, and

WHEREAS the Starr Central Appraisal District B.O. D. has noticed the presiding Officer of the governing body of each taxing unit participating in the Starr County Appraisal District a written notice of the time, date, and place of public hearing, and

WHEREAS the Starr Central Appraisal District B.O.D. has held a public hearing on August 18, 2026, to approve the written plan, and

NOW, THEREFORE, be it RESOLVED that the Starr Central Appraisal District adopts The 2027 – 2028 written reappraisal Plan.

RESOLVED FURTHER that the CHIEF APPRAISER of the STARR CENTRAL – APPRAISAL DISTRICT is authorized and directed to deliver copies of the approved written Reappraisal plan in compliance with the remainder of section 6.05 (i) to the presiding officer of the governing body of each taxing unit participating in the STARR CENTRAL APPRAISAL DISTRICT and the State Comptroller of Public Accounts within 60 days of the approval date.

READ, PASSED AND APPROVED THIS THE 18TH DAY OF AUGUST 2026.

BY: 
Rogerio Olivarez – Chairman

ATTEST:


Encarnación Sáenz III, Secretary