

shall be filled and tamped with clean dry sand or other approved material as shown on the Plans to the required grade. Obtain approval from the Resident Project Representative prior to over excavation.

6. Excavate the trench the proper width as shown. If the trench width below the top of pipe is wider than specified in this Section or shown, install additional backfill. No additional payment will be made for additional material or work required for installation.
  7. Accurately grade the trench bottom to provide proper bedding as required for pipe installation.
  8. If any excavation is carried beyond the lines and grades required or authorized, the Contractor shall, at his own expense, fill such space with concrete or other suitable material as directed by the Engineer. No additional payment will be made.
  9. Construct trench in accordance with Contractor's Trench Safety Plan.
- B. Sheeting and Bracing: Install sheeting and bracing necessary to support the sides of trenches and other excavations with vertical sides, as required by current OSHA regulations.
- C. Water In Excavation: Keep work free from ground or surface water at all times. Provide pumps of adequate capacity or other approved method to remove water from the excavation in such a manner that it will not interfere with the progress of the work or the proper placing of other work.
- D. Trenching Progress: Trenching operations shall not be in excess of 100 feet ahead of pipe laying operations in City streets or 2,000 feet in open country. Not more than two (2) consecutive cross-streets may be closed to traffic at any given time. Trench across only those streets identified to be open cut on the Plans.
- E. Existing Lawns and Shrubbery: The Contractor shall take particular care to preserve existing lawns and shrubbery. Make minor pipe alignment changes as may be necessary with the approval of the Engineer.
- F. Existing Pavement: Existing pavement over trenches shall be removed to a width of 6 inches outside of the trench on each side. Remove to a neat line by sawing method perpendicular to the pavement.

### 3.3 PIPE BEDDING

- A. Pipe Zone: The pipe zone is defined as including the pipe bedding, backfill with crushed aggregate to 50% of the pipe diameter and the initial backfill to 12 inches above the top of the pipe.
  
- B. Class A Bedding:
  - 1. Where shown, the Contractor shall install the pipe in concrete encasement.
  - 2. Concrete for encasement shall be 3000 psi compressive strength as specified in Section 03300.
  - 3. Precautions shall be used to prevent pipe movement or deflection during construction.
  - 4. Concrete for encasement, shall be included in the unit price bid per linear foot in place.
  
- C. Class B Bedding:
  - 1. Accurately grade the bottom of the trench 4 inches below the bottom of the pipe and limits of clear space on either side of the pipe.
  - 2. Place a minimum of 4 inches of compacted sand backfill up to the flow line of the pipe or above before pipe is laid. Install pipe, place additional sand backfill to springline and compact.
  - 3. Complete bedding with compacted sand to 6 inches above the top of the pipe.
  - 4. Compact the bedding and backfill to a minimum of 95 percent of maximum dry density per ASTM D698, maintaining moisture within  $\pm 2$  percent of optimum or 70 percent of relative density per ASTM D-4254.
  
- D. Class C Bedding:
  - 1. All pipe bedding shall be Class C, unless otherwise stated.
  - 2. Accurately grade the bottom of the trench 4 inches below the bottom of the pipe and to the limits of the clear space on either side of the pipe.
  - 3. Place a minimum of 4 inches of compacted granular embedment material (Type A2) below the pipe and to 50% of the pipe diameter.
  - 4. The initial layer of embedment material placed to receive the pipe shall be brought up to a grade slightly higher than that required for the bottom of the

pipe and the pipe shall be placed thereon and brought to grade by tamping, or by removal of the slight excess amount of embedment under the pipe.

5. Adjustment to grade line shall be made by scraping away or filling with embedment materials. Wedging or blocking up of pipe will not be permitted.
6. Each pipe section shall have a uniform bearing on the embedment for the full length of the pipe, except immediately at the joint.
7. After each pipe has been graded, aligned, placed in final position on the bedding material and joint made, sufficient embedment material shall be deposited and compacted under and around each side of the pipe and back of the bell or end thereof to hold the pipe in proper position and alignment during subsequent pipe jointing and embedment operations.
8. Embedment material shall be deposited simultaneously on each side of pipe and compacted uniformly to the spring line or the elevation shown on the plans, whichever is higher.
9. Sheeting and shoring will not be allowed in the pipe zone during or after installation of the pipe or embedment material, unless special provisions are made to ensure the specified compaction of bedding and pipe alignment is maintained after removal of sheeting and shoring.

E. Class D Bedding:

1. Accurately grade the bottom of the trench 4 inches below the bottom of the pipe and to limits of clear space on either side of the pipe.
2. Place and compact a minimum of 4 inches of earthen backfill up to the flow line of the pipe or above before pipe is laid.
3. Install the pipe and place additional earthen backfill to the springline of the pipe and compact.
4. Complete bedding with compacted earthen backfill to 12 inches above the top of the pipe.
5. Compact the bedding and backfill to minimum of 95 percent of maximum density per ASTM D698. Maintain moisture within  $\pm 2$  percent of optimum.

3.4 UTILITY INSTALLATION

- A. Utility Lines: Provide a minimum cover over the top of the pipe as indicated. Avoid interference with other utilities. Provide class of bedding as shown. Install piping and appurtenances as specified.
- B. Excavation for Appurtenances: Excavate sufficiently for valves, valve boxes, manholes, junction boxes, and similar structures to leave at least 2 feet clear distance between the outer surfaces and the embankment or timber that may be used to hold and protect the banks.
- C. Overexcavation: Any over-depth excavation below appurtenances not directed will be considered unauthorized and will be refilled with concrete or approved foundation material, as directed by the Engineer, at no additional cost to the Owner. Overexcavation shall include over-depth and over-width excavation.

### 3.5 BACKFILLING

- A. Criteria: Backfill trenches to ground surface with material as specified. Reopen trenches improperly backfilled to depth required for proper compaction. Refill and compact as specified, or otherwise correct the condition in an approved manner.
- B. Open Areas:
  - 1. Above the pipe zone, Common Fill meeting the requirement of Soil Type S2 in 6 inch lifts. Mound excess material over trench to allow for settlement.
  - 2. All forms, lumber, trash and debris shall be removed from trenches, manholes and other utility structures. Backfill for valves, valve boxes, and other utility structures shall be placed in accordance with applicable specification sections and the drawings.
- C. Pavement Section:
  - 1. Above pipe zone, Select Fill meeting the requirement of Soil Type S3 in 6 inch lifts.
  - 2. Compact to 95% of maximum density within 2% of optimum moisture per ASTM D698.
  - 3. Complete the backfill with aggregate base course and asphalt paving as specified and detailed.

### 3.6 DISPOSAL OF EXCESS MATERIAL

- A. Remove waste and excess excavated material from the construction site before final inspection. Legally dispose of material at a licensed site or with written and notarized permission from the property owner for a private disposal site. All costs associated with waste material removal and disposal shall be paid for by the Contractor.

END OF SECTION

SECTION 02314

PIPELINES CROSSING HIGHWAYS, STREETS, AND RAILROADS BY  
BORING, TUNNELING, OR OPEN CUT

PART 1 GENERAL

1.1 WORK INCLUDED

- A. Furnish labor, materials, equipment and incidentals necessary to install pipe casings or tunnel liners by boring, tunneling or open cut as specified. This section sets forth the requirements for utility lines crossing roadways or railroads using bore, tunneling, or open cut.

1.2 QUALITY ASSURANCE

- A. Installer's Qualifications:
  - 1. Installation shall be by a competent, experienced Contractor or sub-contractor.
  - 2. The installation contractor shall have a satisfactory experience record of at least three (3) years engaged in similar work of equal scope.
- B. Performance Requirements:
  - 1. Lateral or vertical variation in the final position of the pipe casing or tunnel liner from the line and grade established by the Engineer shall be acceptable only to the extent that it does not impact the line and grade of the carrier pip shown on the Plans.

1.3 SUBMITTALS

- A. Submittals shall be in accordance with Section 01300, SUBMITTALS and shall include:
  - 1. Provide shop drawings of casing insulators including sketches of insulators with material components and dimensions and proposed locations of insulators.

1.4 STANDARDS

- A. AWWA C-206 – "Field Welding of Steel Water Pipe"
- B. AWWA C-210 – "Liquid Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines"
- C. AASHTO M-190 – "Bituminous Coated Corrugated Metal Culvert Pipe and Pipe Arches"
- D. AASHTO – Standard Specifications for Highway Bridges, 1989.
- E. ASTM A-36 – "Structural Steel"
- F. ASTM A-123 – "Zinc (Hot Dipped Galvanized) Coatings on Iron and Steel Products"

- G. ASTM A-135 – "Electric - Resistance - Welded Steel Pipe"
- H. ASTM A-139 – "Electric - Fusion (Arc) - Welded Steel Pipe"
- I. ASTM A-153 – "Zinc Coating (Hot Dip) on Iron and Steel Hardware"
- J. ASTM A-307 – "Carbon Steel Bolts and Studs, 60,000 PSI Tensile"
- K. ASTM A-449 – "Quenched and Tempered Steel Bolts and Studs"
- L. ASTM A-569 – "Steel, Carbon, Hot-Rolled Sheet and Strip, Commercial Quality"
- M. ASTM A-570 – "Hot Rolled Carbon Steel Sheet and Strip, Structural Quality"
- N. ASTM C-76 – "Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe"
- O. ASTM D-4254 – "Test Methods for Minimum Index Density of Soils and Calculation of Relative Density"

1.5 JOB CONDITIONS; PERMITS AND EASEMENT REQUIREMENTS

- A. Where the work is in the public right-of-way or railroad company right-of-way, the Owner will secure the appropriate permits or easements.
  - 1. The Contractor shall observe regulations and instructions of the right-of-way Owner as to the methods of performing the Work and take precautions for the safety of the property and the public.
  - 2. Negotiations and coordination with the right-of-way Owner shall be carried on by the Contractor, not less than five (5) days prior to the time of his intentions to begin work on the right-of-way.
- B. Comply with the requirements of the permit and/or easement.
  - 1. The work within the Texas Department of Transportation (TxDOT) and Public Transportation shall comply with TxDOT specifications.
  - 2. If required by the Right-of-Way Owner, obtain Protective Liability Insurance in the amount required by the particular company or other insurance as is specified in the permit at no cost to the Owner.
  - 3. Acquire a permit, agreement, or work order from the right-of-way Owner as is required.
- C. Construction along roads and railroads shall be performed in such manner that the excavated material be kept off the roads and railroads at all times, as well as, all operating equipment.
  - 1. Construction shall not interfere with the operations of the roads and railroads.

- D. Barricades, warning signs, and flagmen, when necessary and specified, shall be provided by the Contractor.
- E. No blasting shall be allowed.
- F. Existing pipelines are to be protected.
  - 1. The Contractor shall verify location and elevation of any pipelines and telephone cable before proceeding with the construction and plan his construction so as to avoid damage to the existing pipelines or telephone cables.
  - 2. Verification of location of existing utilities shall be the complete responsibility of the Contractor.

1.6 OPTIONS

- A. Casing Material:
  - 1. Unless specified otherwise, the Contractor shall use steel pipe for all casing pipe.
  - 2. The material specification for casing pipe and tunnel liner are the minimum acceptable.
  - 3. The Contractor shall be fully responsible to insure the materials used are of sufficient strength for the installation method chosen and the soil conditions encountered.
- B. Bore And Tunnel Methods:
  - 1. Unless specified otherwise, the Contractor may use boring, and jacking for the installation method of casing material.
  - 2. The Contractor shall be fully responsible to insure the methods used are adequate for the protection of workers, pipe, property, and the public. Provide a finished product as required.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Steel Pipe:
  - 1. Steel casing pipe shall have a minimum yield strength of 35,000 psi.
  - 2. Steel casing pipe to be installed with Union Pacific Railroad Right-of-way shall be coated with coal tar epoxy meeting the requirements of Corp of Engineers Specification C-200A. Coal tar epoxy shall be installed in two 8 mil coats for a total DFT of 16 mils. Welded joints shall be field coated. All other casing installed outside of Union Pacific Railroad Right-of-way may be uncoated.

3. Casing shall meet ASTM A-36, ASTM A-570, ASTM A-135, ASTM A-139, or Engineer approved equal.
4. Pipe joints shall be welded in accordance with AWWA C-206.
5. Unless specified otherwise, the minimum wall thickness of steel casing pipe shall be as follows:

<u>Casing Diameter</u>	<u>Wall Thickness</u>
<12"	0.25"
13" - 18"	0.3125"
19" - 22"	0.375"
23" - 28"	0.4375"
29" - 34"	0.50"
35" - 42"	0.5625"
43" - 48"	0.625"

## 2.2 MIXES

### A. Cement Mortar:

1. Consisting of one (1) part cement to two (2) parts clean sand with sufficient water to make a thick workable mix.

### B. Pressure Grout Mix:

1. Comprised of 1 cubic foot of cement and 3.5 cubic feet of clean fine sand with sufficient water added to provide a free flowing thick slurry.
2. If desired to maintain solids in the mixture in suspension, one cubic foot of commercial grade bentonite may be added to each 12 to 15 cubic feet of the slurry.

## 2.3 MANUFACTURED PRODUCTS

### A. Casing Insulators:

1. Use casing insulators for all types of carrier pipe.
2. Insulators shall consist of pre-manufactured steel bands with plastic lining and plastic runners.
3. Insulators shall fit snug over the carrier pipe and position the carrier pipe approximately in the center of the casing pipe, to provide adequate clearance between the carrier pipe bell and the casing pipe.
4. Fasteners for insulators shall be stainless steel.

5. Insulators shall be as manufactured by Advanced Product and Systems, Inc., Model #SSI, or Engineer approved equal.

B. End Seals:

1. All casing shall be sealed.
2. Seals shall be one-piece rubber with stainless steel bands.
3. End seal shall be molded to fit the casing pipe and carrier pipe.
4. Advanced Product and Systems, Model #AC or Engineer approved equal.

PART 3 EXECUTION

3.1 GENERAL CONSTRUCTION PROCEDURES

A. Excavation And Backfill Of Access Pits

1. Do not allow excavation over the limits of the bore or tunnel as specified.
  - a. Trench walls of access pits adjacent to the bore or tunnel face shall be truly vertical
  - b. Shore the trench walls as necessary to protect workmen, the public, structures, roadways, and other improvements.
2. Excavations within the right-of-way and not under surfacing shall be backfilled and consolidated by tamping in 6" horizontal layers to 95% of maximum density as measured by ASTM D-698.
  - a. Surplus material shall be removed from the right-of-way and the excavation finished to original grades.
  - b. Backfill pits immediately after the installation of the carrier pipe is completed.
  - c. If carrier pipe is not installed immediately after casing pipe installation, the Right-of-Way Owner may require the access pits be temporarily backfilled until installation of carrier pipe.
3. Where seeding or sodding is disturbed by excavation or backfilling operations, such areas shall be replaced by seeding or sodding as specified.

B. Installing Carrier Pipe in Casings

1. Pipe to be installed within the casing or tunnel liner shall meet the requirements for this type of pipe as specified.
  - a. Where indicated, place, align, and anchor guide rails and/or casing insulators inside the casing.
  - b. If guide rails are used, place cement mortar on both sides of the rails.

2. Pull or skid pipe into place inside the casing.
  - a. Lubricants such as flax soap or drilling mud may be used to ease pipe installation.
  - b. Do not use petroleum products, oil or grease for this purpose.
  - c. If guide rails are used, install pipe and hold down jacks after installation of carrier pipe.
3. After installation of the carrier pipe, mortar inside and outside of the joints as applicable.
4. After carrier pipe installation is complete, install required end seals at each end of the casing.

C. Free-Air System:

1. If required by OSHA standards, free-air systems shall be installed and maintained.

D. Installation of Pressure Grout Mix

1. Install pressure grout mix in the void space between the outside of the casing pipe or tunnel liner and the excavation.
2. For bore or jacks with casing pipe, install pressure grout mix immediately upon completion of setting casing pipe.

3.2 CROSSINGS INSTALLED BY BORING

A. Perform the boring from the low or downstream end unless specified otherwise.

1. The casing bore shall be done by auger type boring method. The casing bore shall not be done by directional drilling unless approved by the Engineer prior to bidding.
2. Place excavated material near the top of the working pit and dispose of material as required.
3. The cutter head shall not extend outside the leading end of the pipe. There shall not be extended pauses during the installation of casing below roadways and/or railroads.
4. Jetting shall not be permitted.

B. In unconsolidated soil formations, a gel-forming colloidal drilling fluid consisting of at least 10% of high grade carefully processed bentonite may be used to consolidate cuttings of the bit, seal the walls of the hole, and furnish lubrication for subsequent removal of cuttings and installation of the pipe immediately thereafter.

C. In locations where the soil formation is other than consolidated rock, insert the casing pipe simultaneously with the boring operation.

1. This requirement applies to all bored holes of 18" or greater in diameter.
2. For smaller diameter bored holes, it is desirable that the casing be installed as the boring progresses, but because of differences in soil formations, the time for inserting the casing shall be the Contractor's responsibility.
3. In the event that caving sand or water bearing materials are encountered, insert the casing pipe simultaneously with the boring operation regardless of the diameter of the bored hole.
4. In all cases, the security and integrity of the roadway/railroad is the primary concern.
5. The Contractor shall be held fully responsible for the continued integrity of the structure of the roadway/railroad being crossed, whether or not a casing pipe is inserted simultaneously with the boring operation.

### 3.3 CROSSINGS INSTALLED BY TUNNELING AND JACKING

- A. Jack the pipe from the low or downstream end, unless specified otherwise.
  1. Provide heavy-duty jacks suitable for forcing the pipe through the embankment.
  2. In operating jacks, apply even pressure to the jacks used.
  3. Provide a suitable jacking head and bracing between jacks so that pressure will be applied to the pipe uniformly around the ring of the pipe.
  4. Provide a suitable jacking frame or backstop.
  5. Set the pipe to be jacked on guides, properly braced together, to support the section of the pipe and to direct it in the proper line and grade.
  6. Place the whole jacking assembly so as to line up with the direction and grade of the pipe.
  7. In general, excavate embankment material just ahead of the pipe and material removed through the pipe.
  8. Force the pipe through the embankment with jacks into the space provided.
- B. The excavation for the underside of the pipe, for at least 1/3 of the circumference of the pipe, shall conform to the contour and grade of the pipe.
  1. Provide a clearance of not more than 2" for the upper half of the pipe.
  2. This clearance shall be tapered off to zero at the point where the excavation conforms to the contour of the pipe.
  3. Extend the distance of the excavation beyond the end of the pipe depending on the character of the material, but do not exceed 2' in any case.

4. Decrease the distance if the character of the material being excavated makes it desirable to keep the advance excavation closer to the end of the pipe.
- C. If desired, use a cutting edge of steel plate around the head end of the pipe extending a short distance beyond the end of the pipe with inside angles or lugs to keep the cutting edge from slipping back onto pipe.
- D. When jacking of pipe has begun, carry on the operation without interruption to prevent the pipe from becoming firmly set in the embankment.
  1. Remove and replace any pipe damaged in the jacking operations.
  2. The Contractor shall absorb the entire expense.

3.4 CROSSINGS WITH CASING INSTALLED BY OPEN CUT

- A. This article covers the requirements for the construction of crossings where pipe casing is required for installation by the open cut method.
- B. Excavation, backfill, and embedment of casing pipe shall be as specified.
- C. Casing shall be bedded in gravel material to the springline of the casing.
- D. Contractor shall backfill with select fill material compacted in 8-inch lifts.
- E. Contractor shall complete the backfill and repair the pavement section as shown.
- F. If settlement occurs, the pavements shall be removed and the trench recompactd at the Contractor's expense.

END OF SECTION

SECTION 02370  
EROSION CONTROL FABRIC

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Erosion control fabric

1.2 RELATED SECTIONS

- A. Section 01200 –Bid Item Descriptions
- B. Section 02936 - Seeding.

1.3 SUBMITTALS FOR REVIEW

- A. Submit 8" x 8" sample if not by pre-approved supplier and product data sheets for materials to be used.

1.4 QUALITY CONTROL

- A. Pre-approved Acceptable Manufacturers
  - 1. American Excelsior Company, Arlington, Texas
  - 2. Erosion Control Systems, Inc., Tuscaloosa, Alabama

PART 2 PRODUCTS

2.1 MATERIALS

- A. Blanket:
  - 1. Plastic reinforced excelsior blanket shall be used for erosion control.
  - 2. Blanket shall be a machine produced mat of curled wood excelsior covered on one side with a photo-degradable plastic mesh.
  - 3. Product weight shall be 1.0 pounds per square yard +/- 10%.
- B. Staples:
  - 1. Staples shall be make of uncoated steel wire to provide for rapid decomposition.
  - 2. Staples shall be 10-gauge, U-shaped, with a length of 6 inches.

PART 3 EXECUTION

3.1 APPLICATION

- A. The area to be covered shall be prepared, fertilized, and seeded in accordance with Section 02936-Seeding before the blanket is applied.
- B. The blanket shall be unrolled down-slope with the plastic netting on top.
  - 1. It is essential that the length of the blanket be parallel to the flow surface runoff.
  - 2. Care should be taken to insure coverage of the entire area as designated without leaving gaps between the blankets.
  - 3. Staples shall be driven through the blanket into the ground at 6-foot intervals along the length of the blanket, and 2-foot intervals along the width of the blanket.
- C. Butted joints of adjacent blankets shall be fastened together along the joint with a single row of staples along the length of the blanket. This stapling procedure should result in use of staples at the rate of 0.75 staples per square yard of blanket.

3.2 SCHEDULE

- A. Erosion control matting shall be used on all slopes greater than 3:1 and in locations shown on the plans.

END OF SECTION

SECTION 02375  
FILTER FABRIC FENCE

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Filter fabric fence

1.2 DESCRIPTION

- A. This Item describes the installation of filter fabric fences utilized during construction and prior to the final development of the site.

1.3 RELATED SECTIONS

- A. Section 01200 –Bid Item Descriptions

1.4 SUBMITTALS FOR REVIEW

- A. Manufacturer's catalogue sheets and other pertinent information on geotextile fabric.

PART 2 PRODUCTS

2.1 FILTER FABRIC

- A. Provide woven or nonwoven geotextile filter fabric made of either polypropylene, polyethylene, ethylene, or polyamide material.
- B. Geotextile fabric shall have a grab strength of 100 psi in any principle direction (ASTM D-4632), Mullen burst strength exceeding 200 psi (ASTM D-3786), and the equivalent opening size of between 20 and 50.
- C. Filter fabric material shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six months of expected usable construction life at a temperature range of 0 ° F to 120°F.

PART 3 EXECUTION

3.1 FILTER FABRIC

- A. Provide erosion and sedimentation control systems at the locations shown on the construction plan/profile sheets or as directed by the Engineer. Such systems shall be of the type indicated and shall be constructed in accordance with the requirements shown on the construction plan/profile sheets and set out in this Item.
- B. Inspect and repair or replace components of all erosion and sedimentation control systems as specified for each system.

1. Unless otherwise directed, maintain the erosion and sedimentation control systems until the project is accepted by the Owner.
  2. Remove erosion and sedimentation control systems promptly, in an appropriate manner, when directed by the Owner.
- C. Remove and dispose of sediment deposits off-site.
1. Off-site disposal will be the responsibility of the Contractor.
  2. Sediment shall not be allowed to flush into streams or drainage ways.
  3. If sediment has been contaminated, it shall be disposed of in accordance with existing federal, state and local regulations.
- D. Damage caused by construction traffic to erosion and sedimentation control systems shall be repaired immediately at the expense of the Contractor.
- E. Conduct all construction operations under this Contract in conformance with the erosion control practices described.

### 3.2 CONSTRUCTION METHODS

- A. Provide filter fabric fence systems at locations specified in accordance with the construction plan/profile sheets. Filter fabric fence systems shall be installed in such a manner that surface runoff will percolate through the system in sheet flow fashion and allow sediment to be retained and accumulated.
- B. Attach the filter fabric and wire to 2 inch by 2 inch wooden stakes or 1.00-1.33 lb./linear foot steel posts spaced no more than six feet apart and embedded at least one foot deep.
1. All stakes shall be installed perpendicular to the slope of the land.
  2. Steel posts shall have projections for fastening wire and/or fabric.
- C. Trench in the toe of the filter fabric fence with a spade or mechanical trencher so that the downward face of the trench is flat and perpendicular to the direction of flow (as shown on the drawing included at the end of this Section).
1. Lay filter fabric and wire along the edges and bottom of the trench.
  2. Backfill and compact the trench.
- D. The filter fabric and wire should be provided in continuous rolls and cut to the length of the Silt Fence to minimize the use of joints.
1. When joints are necessary, the fabric and wire should only be spliced together at a support post and have at least six inches of overlap.
  2. The joint shall be securely sealed.

E. Inspection of sediment filter barrier systems shall occur after each rainfall or daily during periods of prolonged rainfall. Inspection shall occur at least once a week during rainless periods.

1. Repair or replace damaged section immediately to restore the requirements of this Item.
2. Sediment deposits shall be removed when they reach one-third of the height of the fence.

END OF SECTION

SECTION 02665

WATER SYSTEMS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Pipe and fittings for water lines including, supply lines, and potable water distribution lines.
- B. Fire hydrants, fittings, and appurtenances.

1.2 RELATED SECTIONS

- A. Section 01300 – Submittals.
- B. Section 01400 – Quality Control.
- C. Section 01600 – Material and Equipment.
- D. Section 02205 – Soil Materials.
- E. Section 02207 – Aggregate Materials.
- F. Section 02225 – Excavation, Backfill, and Compaction for Utilities.
- G. Section 02314 – Pipeline Crossing Creeks, Highways, Streets, and Railroads by Boring or Open Cut
- H. Section 02675 – Disinfection of Water Distribution Systems.
- I. Section 03300 – Cast-in-Place Concrete: Concrete for Thrust Restraints.

1.3 REFERENCES

- A. American Society for Testing and Materials (ASTM)
  - 1. ASTM A126 – Gray Iron Castings for Valves, Flanges and Pipe Fittings.
  - 2. ASTM A307 – Specification for Carbon Steel Bolts and Studs 60,000 psi Tensile.
  - 3. ASTM A536 – Ductile Iron Castings.
  - 4. ASTM B88 – Seamless Copper Water Tube.
  - 5. ASTM D698 – Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort.
  - 6. ASTM D1784 – Standard Specification for Rigid PVC Compounds and Chlorinated PVE Compounds.

7. ASTM D-1785 - Polyvinyl Chloride (PVC) Plastic Pipe, Schedules 40, 80, and 120.
  8. ASTM D-2464 - Polyvinyl Chloride (PVC) Plastic Pipe Fittings, Schedule 80.
  9. ASTM D-2466 - Polyvinyl Chloride (PVC) Plastic Pipe Fittings, Schedule 40.
  10. ASTM D-2467 - Polyvinyl Chloride (PVC) Plastic Pipe Fittings, Schedule 80.
  11. ASTM D-2855 - Making Solvent-Cemented Joints with Polyvinyl Chloride (PVC) Pipe and Fittings.
  12. ASTM D-3139 - Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals.
  13. ASTM F-477 - Elastomeric Seals (Gaskets) for Joining Plastic Pipe
  14. ASTM D2241 – Standard Specifications for Polyvinyl Chloride (PVC) Pressure-Rated Pipe (SDR Series).
  15. ASTM D2837 – Standard Test Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials
  16. ASTM D2922 – Standard Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
  17. ASTM D3017 – Standard Test Methods for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth).
  18. ASTM D3261 – Standard Specification for Butt Heat Fusion Polyethylene (PE) Plastic Pipe and Tubing
  19. ASTM D3350 – Standard Specification for Polyethylene Plastics Pipe and Fittings Materials
- B. American Water Works Association (AWWA)
1. AWWA C104 – Cement Mortar Lining for Ductile-Iron Pipe and Fittings
  2. AWWA C105 – Polyethylene Encasement for Ductile-Iron Pipe Systems
  3. AWWA C110 - Ductile-Iron and Gray-Iron Fittings, 3 inches through 48 inches, for Water and Other Liquids.
  4. AWWA C111 – Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings
  5. AWWA C115 – Flanged Ductile-Iron Pipe with Ductile-Iron or Gray Iron Threaded Flanges
  6. AWWA C116 – Protective Fusion-Bonded Epoxy Coatings for the Interior and Exterior Surfaces of Ductile-Iron and Gray-Iron Fittings
  7. AWWA C150 – Thickness Design of Ductile-Iron Pipe

8. AWWA C151 – Ductile-Iron Pipe, Centrifugally Cast
9. AWWA C153 - Ductile Iron Compact Fittings, 3 inches through 12 inches, for Water and Other Liquids.
10. AWWA C502 – Dry-Barrel Fire Hydrants
11. AWWA C600 – Installation of Ductile-Iron Water Mains and Their Appurtenances
12. AWWA C605 – Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water
13. AWWA C900 – Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 inches through 12 inches, for Water Transmission and Distribution
14. AWWA C901 – Polyethylene (PE) Pressure Pipe, Tubing, and Fittings, ½ inch through 3 inches for Water Service
15. AWWA C905 – Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 14 inches through 48 inches, for Water Transmission and Distribution
16. AWWA C906 – Polyethylene (PE) Pressure Pipe and Fitting, 4 inches through 63 inches for Water Distribution and Transmission
17. AWWA C909 – Molecularly Oriented Polyvinyl Chloride (PVCO) Pressure Pipe, 4 inches through 24 inches, For Water Distribution

C. National Sanitation Foundation (NSF)

1. NSF14 – Plastic Piping System Components and Related Materials.
2. NSF61 – Drinking Water System Components – Health Effects.

D. American National Standards Institute (ANSI).

1. ANSI B16.9 – Fittings.
2. ANSI B36.19 – Wall Thickness.
3. ANSI A21.11/AWWA C111 – Mechanical Joints.
4. ANSI B16.1 – Flanges and Flanged Fittings.

E. Texas Administrative Code, Volume 30, Chapter 290, Water Hygiene.

1.4 SUBMITTALS

Submit in accordance with Section 01300 – Submittals.

- A. Product data sheets on all materials used in the Project.

- B. Submit contract closeout documents in accordance with Section 01700 – Contract Closeout. Accurately record installed location of valves, hydrants, piping, service connections, and accessories.

1.5 QUALITY ASSURANCE

- A. Pipeline installation shall be in accordance with manufacturer's recommendations and as supplemented by these specifications.
- B. Pipe shall be kept clean of all foreign matter.
- C. Jointing shall be by trained employees.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products under provisions of Section 01600 – Material and Equipment.
- B. Each load of pipe delivered to the job site shall be inspected by the Engineer.
- C. Pipe transported without adequate protection shall be rejected and removed immediately from the job site.
- D. If requested by the Engineer, randomly selected samples of the pipe shall be forwarded immediately to an approved testing laboratory with instructions to check the pipe for compliance with applicable product standards, ASTM Specifications, and other applicable specifications.
- E. If the testing laboratory reports concur that the pipe does not meet specifications, the defective pipe shall be removed immediately from the job site by the Contractor.
- F. If the pipe is defective, all costs for shipping of samples, laboratory testing, removal of defective pipe, and replacement pipe shall be the sole responsibility of the Contractor. If the pipe is not defective, the Owner shall pay for shipping of samples, laboratory testing, and replacement of samples.

PART 2 PRODUCTS

2.1 PIPE

- A. Ductile Iron Water Pipe
  - 1. All ductile iron water pipe shall be in accordance with ANSI/AWWA C150/A21.50 and ANSI/AWWA C151/A21.51.
  - 2. Ductile iron water pipe shall be at least Pressure Class 250.
  - 3. All pipes shall bear the NSF 61 Seal of Approval.
  - 4. Interior surfaces shall be cement lined per AWWA C104.

5. Exterior surfaces shall be coated with bituminous coating per AWWA C110.
6. Pipe shall be free from excessive pits, scars, or other surface defects.
7. Joints shall be integral bell with flexible elastomeric seal per AWWA C111.
8. Install pipe as specified in AWWA C600.
9. All ductile iron pipe, fittings, and appurtenances shall be wrapped in eight mil polyethylene and tape encasement per AWWA C105.
10. Pre-approved Manufacturers
  - a. American Cast Iron Pipe Co.
  - b. U.S. Pipe.
  - c. Griffin.

B. PVC Water Pipe

1. AWWA C900 and AWWA C905 pipe four inches and larger in diameter shall be DR 18 pressure class 235. AWWA C909 pipe shall be pressure class 235.
2. Pipe three inch diameter shall be SDR 21 PVC with a pressure rating of 200 psi conforming to ASTM D2241.
3. Pipe less than three inches in diameter shall be Type 1, Grade 1, Polyvinyl Chloride, Schedule 40 pipe conforming to ASTM D1785., unless specified otherwise.
4. Pipe three inches and larger in diameter joints shall be integral bell with a flexible elastomeric seal per AWWA standards. Pipe two inches in diameter and smaller shall have glued joints.
5. Pipe three inches and larger in diameter shall be blue.
6. All pipe shall bear the NSF 61 seal of approval.
7. Pipe shall be free of excessive pits, scars, or other surface defects.
8. Install pipe as specified in AWWA C605.
9. Pre-approved Manufacturers for AWWA C900, C905, C909, and SDR 21 Pipe
  - a. North American Pipe.
  - b. Napco.
  - c. JM Eagle
  - d. Diamond Pipe Co.

C. Restrained Joint PVC Water Pipe

1. Pipe shall be DR 18 pressure class 235.
2. All pipe shall bear the NSF 61 seal of approval.
3. The restrained joint pipe system shall meet all short and long term pressure test requirements of AWWA C900 and C905.
4. Pipe and coupling shall be made from unplasticized PVC compounds having a minimum cell classification of 12454-B as defined in ASTM D1784.
5. The compound shall qualify for a Hydrostatic Design Base of 4000 psi of water at 73.4° F in accordance with the requirements of ASTM D2837.
6. Blue pipe shall be supplied unless otherwise agreed upon at time of purchase.
7. Restrained joint PVC pipe products shall have been tested and approved by an independent third-party laboratory for continuous use at rated pressures.
  - a. Copies of agency approval reports or product listing shall be provided to the Engineer if requested.
  - b. Products intended for contact with potable water shall be evaluated, tested, and certified for conformance with NSF Standard 61 or the health effects portion of NSF Standard 14 by an acceptable certifying organization when required by the regulatory authority having jurisdiction.
8. Pipe shall be joined using non-metallic couplings which, together, have been designed as an integral system for maximum reliability and interchangeability.
  - a. High-strength flexible thermoplastic splines shall be inserted into mating precision-machined grooves in the pipe and coupling to provide full 360° restraint with evenly distributed loading.
  - b. MJ Gland Adapters shall be used to anchor this restrained-joint PVC pipe to ductile iron accessories such as fittings and valves.
  - c. Couplings shall be designed for use at the rated pressures of the pipe with which they are utilized and shall incorporate twin elastomeric sealing gaskets meeting the requirements of ASTM F477.
  - d. Joints shall be designed to meet the leakage test requirements of ASTM D3139.
9. Install pipe as specified in AWWA C605
10. Pre-approved Manufacturer for Restrained Joint PVC Water Pipe
  - a. Certainteed – Certa-Lok.

D. Polyethylene Pipe (HDPE)

1. Pipe shall be manufactured of PE 3408 high-density polyethylene, meeting ASTM D3350
2. Pipe shall be DR 11 DIPS sized pipe and shall have three equally spaced pairs of longitudinal blue color stripes co-extruded into the pipe outside surface. Stripes printed on the outside surface shall not be acceptable.
3. All pipe shall bear the NSF seal of approval.
4. HDPE pipe shall be manufactured in accordance with the requirements of ASTM F714 and AWWA C906
5. Pipe plain ends shall be joined by butt fusion in accordance with the manufacturer's recommended procedure.
6. Install pipe by horizontal directional drilling method in accordance with the *Plastics Pipe Institute Handbook of Polyethylene Pipe* and ASTM D2774.

E. Pre-approved Manufacturer for Polyethylene Pipe (HDPE)

1. Performance Pipe – Driscopex.

2.2 FIRE HYDRANTS

A. Hydrants shall conform to AWWA C502, the following specifications and shall be compression type. Construction of the hydrants shall be in accordance with the following:

1. The minimum working pressure shall be 150 psi.
2. The size of the valve opening shall be a minimum of 5¼ inches.
3. The diameter of the inlet connection shall be six inches.
4. The inlet connection shall be mechanical joint with follower gland, gland bolts, and accessories.
  - a. Nozzles shall be 2 – 2½" w/NST Threads & 1 – 4½" pumper w/NST Threads.
  - b. Nozzles shall be "threaded" style and not "leaded" style.
5. Finish shall be one coat of primer and two coats of enamel. Hydrant color shall match the Owner's standard.
6. Hydrant assembly shall include extensions as required to bring the hydrant to the manufacturer's recommended level above grade.
7. The direction to open shall be counterclockwise.

B. Manufacturer

1. American Flow Control – American Darling B84B

2.3 FITTINGS

A. Buried Fittings (3 inches and larger in diameter)

1. Fittings shall be ductile iron according to AWWA C110 (full body) /AWWA C153 (compact) for fittings 3 inches in diameter and larger.
2. Interior surfaces shall be cement lined in conformance with AWWA C104.
3. Exterior surfaces shall be bituminous coated in accordance with AWWA C110.
4. All buried fittings shall be mechanical joint with mechanical thrust restraining devices and concrete thrust blocking unless otherwise specified.
5. Any of the following are acceptable types and manufacturers of mechanical thrust restraining devices for the pipe types listed unless otherwise specified or shown on the Plans. The method for thrust restraining all joints shall have a working pressure rating equal to or exceeding the pressure rating of the fitting which it restrains. The use of thrust restraining devices shall be at the direction of the Engineer.
  - a. Multiple Gripping Wedges
    - 1) Follower glands utilizing multiple gripping wedges shall utilize torque limiting twist off nuts.
    - 2) Pre-Approved Manufacturer
      - (a) For use on AWWA C900 and C905 PVC pipe - Series 2000PV by EBAA Iron, Inc.
      - (b) For use on ductile iron pipe – Series 1100 by EBAA Iron, Inc.
  - b. Full Circle Gripping Ring  
Pre-Approved Manufacturer for use on ductile iron pipe and AWWA C900 and C909 PVC pipe – Midco Perma-Grip by Midland Mfg. Co.
6. Fittings shall be rated for a working pressure of 350 psi.

B. Fittings (smaller than two inches in diameter)

Fittings for pipe smaller than two inches in diameter shall be in accordance with ASTM D2466.

## 2.4 COUPLINGS

- A. Supply couplings with a steel center band, steel gland rings, gaskets, and bolts.
- B. Couplings shall be rated for 1.25 times the maximum operating pressure of the line to be connected.
- C. All couplings near bends, fittings, or valves shall be restrained with an Engineer approved mechanical restraint system.
- D. Pre-approved Manufacturers
  - 1. Dresser Industries.
  - 2. Smith-Blair.

## 2.5 FLANGE ADAPTORS

- A. Restrained flange adaptors shall be used in place of threaded or welded flange pieces only where specified or shown on the Plans.
- B. Restraint for the flange adaptor shall consist of a number of individual gripping wedges. Torque limiting actuating screws shall be used to insure proper initial set of the gripping wedges.
- C. For PVC pipe, the flange adaptor shall have a pressure rating equal to that of the pipe. For ductile iron pipe, the flange adaptor shall have a safety factor of 2:1 minimum.
- D. The flange adapter shall be the Series 2100 Megaflange adaptor as manufactured by EBAA Iron, Inc. or engineer approved equal.

## 2.6 BOLTS AND GASKETS

- A. Gaskets shall be 1/16-inch cloth insert, red rubber, full face.
- B. Bolts shall be in accordance with the following:
  - 1. Non-Pressure Applications: ASTM A307A, hot dipped galvanized.
  - 2. Pressure Applications: ASTM A307B, hot dipped galvanized.
  - 3. Submerged/Splashed (Pressure or Non-Pressure): 316 stainless steel.

## 2.7 PIPE SUPPORTS

Install adjustable pipe supports manufactured by Grinnell Inc. or Engineer approved equal as shown on the Plans.

## 2.8 SERVICE LINES

- A. Water service lines shall be C901 polyethylene (HDPE) with integral tracer wire unless otherwise specified or shown on the Plans.

- B. The water service lines shall be sized to match existing services with a minimum line size of 3/4 inch.
- C. Pre-approved Manufacturers for HPDE Service Lines
  - 1. Endot Industries - Endotrace
- D. Service Saddles
  - 1. Service saddles to be installed on lines up to four inches shall be single stainless steel strap with NPT tap. Service saddles to be installed on lines over four inches shall be double stainless steel strap with NPT tap. Saddle body shall be ductile iron with epoxy coating.
  - 2. Pre-approved Manufacturers
    - a. Smith Blair.
- E. Pre-approved Manufacturers for Curb Stops
  - 1. Mueller.
- F. Corporation Stops
  - 1. Corporation stops shall be bronze with tapered plug and flat key operator. Stops shall have iron pipe threads on inlets and outlets.
  - 2. Pre-approved Manufacturers
    - a. Mueller.
- G. Bottom Load Multi-Jet Meters
  - 1. Water Meters to be installed on lines 3/4-inches in diameter shall be Bottom load multi- jet meters 3/4" x 5/8", meeting or exceeding all sections of AWWA C-708 standards and in compliance with SDWA, NSF ANSI 372 and NSF ANSI 61 standards.
  - 2. The Contractor shall verify and confirm that all items composing the bottom load multi-jet meter assembly are complete and installed in strict accordance with the manufacturer's specifications and recommendations. It is the contractor's responsibility to verify the make, model, and installation procedure for all proposed water meters with Southern Utilities prior to installation.
  - 3. Pre-approved manufacturer:
    - a. Master Meter.

H. Meter Boxes

1. Meter boxes shall be the standard D 1200 plastic rectangle meter box with a solid plastic blue lid with no reader covers.
2. Pre-approved manufacturer:
  - a. NDS, Inc.

2.10 BACK FLOW PREVENTERS

Backflow preventers shall be of the reduced pressure principle type compliant with all provisions of AWWA C511.

2.11 TRACER WIRE FOR PLASTIC PIPE

A continuous THHN 14 solid insulated copper wire shall be installed along with all PVC/HDPE water mains/service lines to assist in locating the line following installation.

PART 3 EXECUTION

3.1 PREPARATION

- A. Do not lay pipe in water or when trench or weather is unsuitable for work. Keep water out of trench until jointing is complete and bedding and backfill are placed to the top of the pipe. When work is not in progress, close the ends of the pipe and fittings securely so that no trench water, earth, or other substances will enter pipe or fittings.
- B. Keep the inside of the pipe free from foreign matter during operations by plugging or other Engineer approved method.
- C. Place pipe so that the full length of each section rests solidly upon pipe bedding with recesses excavated to accommodate joints. Take up and re-lay pipe when grade or joint is disturbed after laying.
- D. Handle pipe and accessories so that pipe placed in the trench is sound and undamaged. Take particular care not to injure pipe coating when applicable.
- E. Cut neatly using approved type mechanical cutter without damaging pipe. Use wheel cutters when possible.
- F. Install in locations shown using hangers, brackets, supports, etc. at spacings as recommended by the pipe manufacturer.
- G. Field cutting of stainless steel pipe will not be allowed.

3.2 PIPE BEDDING AND BACKFILL – SEE SECTION 02225

3.3 PLACING AND LAYING

- A. Bury/Bore water lines as shown on the Plans.
- B. Intersecting lines shall be joined by an appropriate fitting.

3.4 JOINTS

- A. Install mechanical joints in accordance with the manufacturer's recommendations.
- B. Make push-on joints in accordance with the manufacturer's recommendations.
- C. Install solvent weld joints in accordance with ASTM D2855.
- D. Joint lubricant shall be as recommended by the pipe manufacturer.
- E. Install joints in the field by cleaning all joint surfaces and gaskets with soapy water, tighten bolts alternately, evenly and to the specified torques. Extension wrenches shall not be used to secure greater leverage.
- F. Anchor tees, bends and plugged, valved or capped ends of pipe with concrete thrust blocks as necessary and as shown. Place blocks so that the pipe and fitting joints will be accessible for inspection and repair.
- G. Water lines shall not be laid within nine feet of sanitary sewer lines. When this separation distance can not be achieved, the water and sewer lines shall be made to comply with 30 TAC Chapters 290 and 217.

3.5 TESTING

- A. Hydrostatic Testing
  - 1. Perform testing in accordance with AWWA C600/AWWA C605
  - 2. Test pressure shall be 1.5 times the working pressure.
  - 3. Pipeline fill rate shall not exceed 1,000 gpm.
  - 4. Hydrostatic test shall be at least 2 hours in duration. During tests, test pressures shall not vary by more than +/- 5 psi
  - 5. Test pressure shall be maintained within the tolerance by adding makeup water into the pipeline. The amount of makeup water added shall be accurately measured and shall not exceed the testing allowance. No pipe installation will be accepted if the quantity of makeup water is greater than that determined by the testing allowance
  - 6. Testing allowance:

$$L = \frac{S \times D \times \sqrt{P}}{148,000}$$

Where:

L = testing allowance (makeup water), in gallons per hour

S = length of pipe tested, in feet

D = nominal diameter of the pipe, in inches

P = average test pressure during hydrostatic test, in psi

END OF SECTION

SECTION 02669  
VALVES AND COUPLINGS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. This section includes all material, labor and other items necessary to furnish, install, and test, all pipe, pipe supports, anchors, fittings, valves, specials as shown and specified, and the installation of in-line equipment and appurtenances furnished by others, for process piping systems, and plumbing piping systems.

1.2 RELATED SECTIONS

- A. Section 01300 – Submittals.
- B. Section 01400 – Quality Control.
- C. Section 01600 – Materials and Handling.
- D. Section 02665 – Water Systems.

1.3 SUBMITTALS

- A. Procedures for Submittals: Section 01300.
- B. The Contractor shall submit shop drawings of all fabricated piping and shall submit shop drawings and/or manufacturer's literature for all valves, gauges, and miscellaneous appurtenances, for review prior to ordering or installing any item.
- C. Product Data: Manufacturer's product data sheets on all materials incorporated into work.

PART 2 PRODUCTS

2.1 COUPLINGS AND FITTINGS

- A. Flanges, Gaskets and Bolts:
  - 1. Cast iron flanges shall conform to ANSI B16.1 Class 125 or 250 as required on the Plans.
  - 2. Flange gaskets shall be full-face type, rubber, suitable for the intended service. Substitution of other gasket materials shall be only with the express written consent of the Engineer.
    - a. Thickness shall be 1/16" for pipe 10" and less and 1/8" for larger pipe.
    - b. All screwed flanges on cast iron pipe shall be refaced, as required, after fabrication to ensure that pipe ends are flush with face of flange.

- c. Flange assembly bolts shall be in accordance with the following:
    - 1) Non-Pressure Applications: ASTM A307A with hot dipped galvanized finish
    - 2) Pressure Applications: ASTM A307B with hot dipped galvanized finish
    - 3) Submerged/Splashed (Pressure or Non-Pressure): 316 stainless steel
  - d. Bolt threads shall conform to ANSI B1.1, coarse thread series, Class 2 fit. Bolt length shall be such that after joints are made up the bolt shall protrude through the nut, but not more than ½".
3. Forged steel flanges shall conform to ANSI B16.5, R.F.
- a. Flange gaskets shall match raised faces and shall be asbestos composition.
  - b. Thickness shall be 1/16" for pipe 10" and less and 1/8" for larger pipe.
  - c. Flange assembly bolts shall be in accordance with the following:
    - 1) Non-Pressure Applications: ASTM A307A with hot dipped galvanized finish
    - 2) Pressure Applications: ASTM A307B with hot dipped galvanized finish
    - 3) Submerged/Splashed (Pressure or Non-Pressure): 316 stainless steel
  - d. Bolt threads shall conform to ANSI B1.1, coarse thread series, Class 2 fit. Bolt length shall be such that after joints are made up the bolt shall protrude through the nut, but not more than ½".
  - e. 150 psi steel flanges may be bolted to cast iron valves, fittings or other parts, having either integral Class 125 cast iron flanges or screwed Class 125 companion flanges. When such construction is used, the raised face on the steel flange shall be removed.
  - f. Where shown on the Plans, steel flanges shall match the bolt pattern of ANSI B16.1 Class 250.

B. Pipe Threads:

- 1. Unless noted otherwise, all pipe threads shall conform in dimensions and limits of size to ANSI B2.1, taper joint thread.

C. Flange Coupling Adapters:

1. Flange coupling adaptors shall be used in place of threaded or welded flange pieces only where specified or shown on the Plans.
2. For PVC pipe, the flange coupling adaptor shall have a pressure rating equal to that of the pipe. Restraint for the flange coupling adaptor shall consist of a number of individual multiple gripping wedges to secure flange adaptor to pipe. Flange coupling adapters installed on PVC pipe shall be Smith-Blair 920 or Engineer approved equal.
3. For ductile iron or steel pipe, the flange adaptor shall have a safety factor of 2:1 minimum. Restraint for the flange coupling adapter shall consist of a number of individual anchor studs. Flange coupling adapters install on ductile iron or steel pipe shall be Smith-Blair 913 with anchor studs or Engineer approved equal.
4. Additional mechanical thrust restraint shall be provided for flange coupling adapters when directed by the Engineer.

D. Compression Fittings:

1. Compression fittings for copper pipe shall be Dresser Style 88, McDonald, or Engineer approved equal.

E. Joints:

1. All other joints shall be mechanical type or push-on type.
2. Lubricant for push-on type shall be that recommended by the manufacturer of the pipe.
3. Ductile iron retainer glands shall be used in all mechanical joints.

F. Flexible Couplings:

1. Couplings shall be designed to fit accurately, the outside diameters of the pipe to which they are to connect. Supply couplings complete with a steel center band, steel gland rings, gaskets, and bolts.
2. Couplings shall be rated for 1.25 times the maximum operating pressure of the line to be connected.
3. Middle rings shall be made up without a pipe stop where necessary for pipe installation or future removal of valves and fittings.
4. The ends of pipe and fittings which are to receive sleeve-type couplings shall be dressed for a distance of not less than the length of the middle ring plus the width of one follower ring in order to remove welding beads or any obstruction to free the movement of the middle ring.

5. All flexible couplings shall be restrained with an Engineer approved mechanical restraint system including thrust rods and harnesses unless specified otherwise. The thrust rods and harnesses shall be designed for the design operating pressure of the pipeline with a safety factor of 2.
6. Pre-approved Manufacturers
  - a. Dresser Industries
  - b. Smith-Blair

## 2.2 VALVES

### A. General

1. Valves shall be as specified in the Piping Specification Sheets, or as specified herein. A union or flagged connection shall be provided within 2 feet of each threaded end valve unless the valve can be otherwise easily removed from the piping. Unless otherwise indicated, the direction of rotation of the valve operating wheel, wrench nut, or lever shall be to the left (counterclockwise) to open the valve.
2. All valves, except those, which are equipped with power/pneumatic operators, shall be provided with manual operators. Unless otherwise specified, each manual operator shall be equipped with an operating wheel.
3. Chain wheels and operating chains shall be provided on all valves 4" and larger with centerline more than 7'6" above the floor except where other operator types are specifically required. Each chain wheel operated valve shall be equipped with a chain guide which will permit rapid handling of the operating chain without "gagging" of the wheel and will also permit reasonable side pull on the chain. Operating chains shall be heavily plated with zinc or cadmium and shall be looped to extend to within 4 feet of the floor below the valve. Where recommended by the manufacturer, the operator shall be provided with a hammer blow wheel.
4. Wrench nuts shall be provided on all buried valves, on all valves which are to be operated through floor boxes, and where shown. All wrench nuts shall comply with Section 20 of AWWA C-500. Not less than two operating keys shall be provided for operation of the wrench nut operated valves.
5. For all valves buried at a depth of greater than 3 feet, an extension stem shall be provided to bring the operating nut within 2 feet of the finished elevation.
6. Bolt patterns for the flange connections shall match the pipe either Class 125 or Class 250 as shown on the Plans.

B. Buried Valve Boxes and Extension Stems

1. Valves buried in the ground shall be provided with cast iron valve boxes of proper dimensions to fit over the valve bonnets and shall extend to such elevation at or slightly above the finished ground line as directed by the Engineer.
2. Tops shall be complete with covers and shall be adjustable.
3. Valve boxes shall be set vertical and concentric with the valve stem.
4. Any valve box, which has so moved from its original position as to prevent the application of the valve key, shall be satisfactorily reset by the Contractor at his own expense.
5. A concrete pad 2' x 2' x 6" thick shall be poured around all valve boxes which are not to be located within proposed or existing pavements.
6. Extension stems shall be provided and installed for all valves with 2" square nut operators so that operating nut is within 2' of the ground surface.
7. Valve boxes shall be the H-10346, 562-A, two-piece, sliding type, 5½" shaft, 24-36" extension, with drop cover marked water as manufactured by the Mueller Co. or Engineer approved equal.

C. Gate Valves

1. Except as may be otherwise approved by the Engineer, all gate valves required for this Contract shall be from one manufacturer, and similar types and sizes shall be identical and the parts interchangeable.
2. Gate valves, 2 inches through 12 inches shall be designed for a working pressure of not less than 200 psi.
3. Valves shall conform to AWWA C509 R/S "550 Coated Epoxy" with iron bonnet (bronze mounted), non-rising stem resilient seat, two O-ring stem seals and 2" x 2" square operating nut.
4. Valves shall open when the operating nut is turned to the left (counterclockwise).
5. Unless otherwise specified, valves 12 inches in diameter and larger shall be designed for horizontal installation with totally enclosed gear cases.
6. Valve ends shall be mechanical joint complete with accessories or as specified.
7. Tapping valves shall conform to above specification except that the connections shall be ANSI B16.1, Class 125 flange on one side (inlet) and mechanical joint on the other (outlet) or as specified.

8. Wedge shall be constructed of ductile iron, fully encapsulated in synthetic rubber except for guide and wedge nut areas.
9. Wedge rubber shall be molded in place and bonded to the ductile iron portion, and shall not be mechanically attached with screws, rivets, or similar fasteners.
10. Valve operator shall be capable of seating and unseating valves and operating through their full stroke against pressures and velocities as shown by conditions on the Plans.
11. Manual operators shall be the worm gear type having permanently greased lubricated totally enclosed gearing with operating nut and gear ratio design to require not more than 40 lbs. pull. Operator shall be provided with adjustable limit stops on the input shaft to the operator. Limit stops on output shaft of operator will not be permitted. Operator shall be designed for direct burial service and valve box shall be provided over operating nut. Extension stem shall be provided to bring operating nut within 2 feet of ground surface.
12. Pre-approved Acceptable Manufacturers
  - a. Mueller
  - b. American flow control / American Darling
  - c. M & H
  - d. Clow R/S

D. Tapping Sleeves and Valves

1. Tapping sleeves shall be designed for a working pressure of at least 150 psi and furnished with a brass or stainless steel test plug through the body for hydrostatic pressure testing.
2. The outlet shall conform to ANSI B16.1, Class 125 flanges designed to accept tapping valves.
3. Tapping sleeves shall be designed to properly fit the type and class of pipe on which they will be used. Sleeves may be cast iron, ductile iron, or welded steel.
4. Tapping sleeves, unless otherwise specified, shall be epoxy coated, with stainless steel nuts and bolts; or all stainless steel.
5. Taping sleeves which are designed in such a manner that the watertight seal around the outlet is achieved by a gasket placed between the sleeve body and the pipe barrel shall be provided with a recess in the sleeve body to accommodate the gasket.
6. Tapping valves, 2 inches through 12 inches shall be designed for a working pressure 200 psi.

7. Tapping valves shall conform to AWWA C509 R/S "550 Coated Epoxy" with iron bonnet (bronze mounted), non-rising stem resilient seat, two O-ring stem seals and 2" x 2" square operating nut.
8. Tapping valves shall open when the operating nut is turned to the left (counterclockwise).
9. Unless otherwise specified, tapping valves 12 inches in diameter and larger shall be design for horizontal installation with totally enclosed gear cases.
10. Tapping valves ends shall be mechanical joint complete with accessories or as specified.
11. Tapping valves shall conform to above specification except that the connections shall be ANSI B16.1, Class 125 flange on one side (inlet) and mechanical joint on the other (outlet) or as specified.
12. Wedge shall be constructed of ductile iron, fully encapsulated in synthetic rubber except for guide and wedge nut areas.
13. Wedge rubber shall be molded in place and bonded to the ductile iron portion, and shall not be mechanically attached with screws, rivets, or similar fasteners.
14. Tapping valves operators shall be capable of seating and unseating valves and operating through their full stroke against pressures and velocities as shown by conditions on the Plans.
15. Manual operators shall be the worm gear type having permanently greased lubricated totally enclosed gearing with operating nut and gear ratio design to require not more than 40 lbs. pull. Operator shall be provided with adjustable limit stops on the input shaft to the operator. Limit stops on output shaft of operator will not be permitted. Operator shall be designed for direct burial service and valve box shall be provided over operating nut. Extension stem shall be provided to bring operating nut within 3 feet of ground surface.
16. Pre-approved Acceptable Manufacturers for Tapping Valves
  - a. Mueller
  - b. American flow control / American Darling
  - c. M & H
  - d. Clow R/S
17. Pre-approved Acceptable Manufacturers for Tapping Sleeves
  - a. Smith Blair
  - b. JCM

c. Ford

E. Coatings and Linings

1. General: Coatings and linings shall be as specified or shown on the Plans.
2. Galvanizing: Galvanizing shall be in accordance with ASTM A-153.

F. Pipe Supports

1. All exposed piping shall be supported in conformance with the pipe support and structural attachment details in the Plans.

G. Joint Restraint

1. Where thrust rod anchors are shown or specified the Star Joint Restraint System as manufactured by Star National Products of Columbus, Ohio or Engineer approved equal shall be utilized.
2. This system consists of the use of Super Star Tiebolts, Tienuts, Tierods ( $\frac{3}{4}$ " ) and Tiecouplings or Engineer approved equal.
3. The number of tie rods required is listed as follows:

<u>Pipe Size (in.)</u>	<u>Number of <math>\frac{3}{4}</math>" Rods Required</u>
6	2
8	2
10	2
12	4
14	4
16	6
18	6
20	8
24	10
30	12

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify building and trench backfilling have been inspected.
- B. Verify substrate base has been contoured and compacted.

3.2 SUBSTRATE PREPARATION

- A. Eliminate uneven areas and low spots.

- B. Remove debris, roots, branches, stones, in excess of 1 inch in size. Remove subsoil contaminated with petroleum products.
- C. Scarify surface to depth of 4 inches where topsoil is scheduled. Scarify in areas where equipment used for hauling and spreading topsoil has compacted subsoil.

### 3.3 PLACING TOPSOIL

- A. Place topsoil in areas where seeding, sodding, and planting is required, to thickness as scheduled. Place topsoil during dry weather.
- B. Fine grade topsoil to eliminate rough or low areas. Maintain profiles and contour of subgrade.
- C. Remove roots, weeds, rocks, and foreign material while spreading.
- D. Manually spread topsoil close to plant life, buildings, and structures to prevent damage.
- E. Lightly compact placed topsoil.
- F. Remove surplus subsoil and topsoil from site.
- G. Leave stockpile area and site clean and raked, ready to receive landscaping.

### 3.4 TOLERANCES

- A. Top of Topsoil: Plus or minus ½ inch.

### 3.5 PROTECTION

- A. Protect landscaping and other features remaining as final work.
- B. Protect existing structures, fences, sidewalks, utilities, paving, and curbs.

END OF SECTION

SECTION 02675

DISINFECTION OF WATER DISTRIBUTION SYSTEM

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Disinfection of potable water distribution and transmission system.
- B. Testing and reporting results.

1.2 RELATED SECTIONS

- A. Section 02665 – Water Systems

1.3 REFERENCES

- A. AWWA B300 - Standard for Hypochlorites.
- B. AWWA C651 - Standards for Disinfecting Water Mains.

1.4 SUBMITTALS FOR INFORMATION

- A. Section 01300 - Submittals: Procedures for submittals.
- B. Test Reports: Submit all test reports and indicate results comparative to specified requirements.
- C. Certificate: Certify that cleanliness of water distribution system meets or exceeds Texas Department of Health requirements.

1.5 PROJECT RECORD DOCUMENTS

- A. Submit under provisions of Section 01700.
- B. Disinfection report:
  - 1. Type and form of disinfectant used.
  - 2. Date and time of disinfectant injection start and time of completion.
  - 3. Test locations.
  - 4. Initial and 24 hour disinfectant residuals (quantity in treated water) in ppm for each outlet tested.
  - 5. Date and time of flushing start and completion.
  - 6. Disinfectant residual after flushing in ppm for each outlet tested.

C. Bacteriological report:

1. Date issued, project name, and testing laboratory name, address, and telephone number.
2. Time and date of water sample collection.
3. Name of person collecting samples.
4. Test locations.
5. Initial and 24 hour disinfectant residuals in ppm for each outlet tested.
6. Coliform bacteria test results for each outlet tested.
7. Certification that water conforms, or fails to conform, to bacterial standards of Texas Department of Health.

1.6 QUALITY ASSURANCE

- A. Perform Work in accordance with the latest version of AWWA C651.
- B. Water Treatment Firm: Company specializing in disinfecting potable water systems specified in this Section with minimum three (3) years documented experience.
- C. Testing Firm: Company specializing in testing potable water systems, certified by the State of Texas.
- D. Submit bacteriologist's signature and authority associated with testing.

1.7 REGULATORY REQUIREMENTS

- A. Conform to requirements of the latest version of AWWA C651 for performing the work of this Section.
- B. Provide certificate of compliance from Texas Department of Health indicating approval of water system.

PART 2 PRODUCTS

2.1 DISINFECTION CHEMICALS

- A. Chemicals: AWWA B300, Hypochlorite.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that piping system has been cleaned, inspected, and pressure tested.

- B. Perform scheduling and disinfecting activity with start-up, testing, adjusting and balancing, demonstration procedures, including coordination with related systems.

3.2 EXECUTION

- A. Provide and attach required equipment to perform the work of this Section.
- B. Introduce treatment into piping system.
- C. Maintain disinfectant in system for 24 hours.
- D. Flush, circulate, and clean until required cleanliness is achieved; use municipal domestic water.
- E. Replace permanent system devices removed for disinfection.
- F. Pressure test system. Repair leaks and re-test.

3.3 FIELD QUALITY CONTROL

- A. Section 01400 - Quality Assurance: Field inspection and testing.
- B. Test samples in accordance with the latest version of AWWA C651.

END OF SECTION

SECTION 02923  
LANDSCAPE GRADING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Final grade topsoil for finish landscaping.

1.2 RELATED SECTIONS

- A. Section 01400 - Quality Control
- B. Section 01410 - Testing Laboratory Services: Testing fill compaction.
- C. Section 02205 - Soil Materials.
- D. Section 02225 - Excavation, Backfilling and Compacting for Utilities
- E. Section 02936 – Seeding

PART 2 PRODUCTS

2.1 MATERIAL

- A. Topsoil: Fill Type S4 as specified in Section 02205.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify building and trench backfilling have been inspected.
- B. Verify substrate base has been contoured and compacted.

3.2 SUBSTRATE PREPARATION

- A. Eliminate uneven areas and low spots.
- B. Remove debris, roots, branches, stones, in excess of 1 inch in size. Remove subsoil contaminated with petroleum products.
- C. Remove existing soil to a depth of 10 inches below the existing surface in areas where topsoil is scheduled to accommodate the proposed topsoil and mulch. Scarify in areas where equipment used for hauling and spreading topsoil has compacted subsoil.

3.3 PLACING TOPSOIL

- A. Place topsoil in areas where seeding, sodding, and planting is required, to thickness as scheduled. Place topsoil during dry weather.
- B. Fine grade topsoil to eliminate rough or low areas. Maintain profiles and contour of subgrade.
- C. Remove roots, weeds, rocks, and foreign material while spreading.
- D. Manually spread topsoil close to plant life, buildings, and structures to prevent damage.
- E. Lightly compact placed topsoil.
- F. Remove surplus subsoil and topsoil from site.
- G. Leave stockpile area and site clean and raked, ready to receive landscaping.

3.4 TOLERANCES

- A. Top of Topsoil: Plus or minus ½ inch.

3.5 PROTECTION

- A. Protect landscaping and other features remaining as final work.
- B. Protect existing structures, fences, utilities, paving, and curbs.

END OF SECTION

SECTION 02936

SEEDING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Preparation of subsoil.
- B. Placing topsoil.
- C. Temporary Cool Weather Seed Mixture (For Installation if Requested By Engineer).
- D. Seeding, Hydroseeding, mulching, and fertilizer.
- E. Maintenance.

1.2 RELATED SECTIONS

- A. Section 02205 - Soil Materials: Topsoil material.
- B. Section 02923 - Landscape Grading: Preparation of subsoil and placement of topsoil in preparation for the work of this Section.

1.3 REFERENCES

- A. FS O-F-241 - Fertilizers, Mixed, Commercial.
- B. Texas Seed Law.

1.4 DEFINITIONS

- A. Weeds: Include Dandelion, Jimsonweed, Quackgrass, Horsetail, Morning Glory, Rush Grass, Mustard, Lambsquarter, Chickweed, Cress, Crabgrass, Canadian Thistle, Nutgrass, Poison Oak, Blackberry, Tansy Ragwort, Bermuda Grass, Johnson Grass, Poison Ivy, Nut Sedge, Nimble Will, Bindweed, Bent Grass, Wild Garlic, Perennial Sorrel, and Brome Grass.

1.5 MAINTENANCE DATA

- A. Submit under provisions of Section 01700.
- B. Maintenance Data: Include maintenance instructions, cutting method and maximum grass height; types, application frequency, and recommended coverage of fertilizer.

1.6 QUALITY ASSURANCE

- A. Provide seed mixture in containers showing percentage of seed mix, year of production, net weight, date of packaging, and location of packaging.

- B. All seed shall be labeled in accordance with the current rules and regulations of the Texas Seed Law and shall be free of noxious weeds as listed by the Board.
- C. All legumes must be inoculated with an approved culture as per the manufacturer's recommendations.

1.7 REGULATORY REQUIREMENTS

- A. Comply with all regulatory agencies for fertilizer and herbicide composition.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect and handle products to site under provisions of Section 01600.
- B. Deliver grass seed mixture in sealed containers unless otherwise authorized by the Engineer in writing. Seed in damaged packaging is not acceptable.
- C. Seed, which has become wet, moldy, or otherwise damaged in transit or storage will not be acceptable.
- D. Deliver fertilized in waterproof bags showing weight, chemical analysis, and name of manufacturer.

1.9 COORDINATION

- A. Coordinate work under provisions of Section 01039.

1.10 MAINTENANCE SERVICE

- A. Furnish maintenance of seeded areas for one year from Date of Substantial Completion.

PART 2 PRODUCTS

2.1 SEED MIXTURE

- A. Normal Application Seed Mixture (For Installation Between 5:1 and 6:1 inclusive, unless otherwise approved by the Engineer)

<u>Seed</u>	<u>Minimum Seed Purity (Percent)</u>	<u>Minimum Germination (Percent)</u>	<u>Rate of Application (lb./acre)</u>
Common Bermuda, hulled	95.0%	85.0%	90

B. Flower Seed Mixture

<u>Seed</u>	<u>Minimum Seed Purity (Percent)</u>	<u>Minimum Germination (Percent)</u>	<u>Rate of Application (lb./acre)</u>
Common			
Bermuda, hulled	95.0%	85.0%	20
Elbon rye	95.0%	85.0%	20
Crimson Clover	95.0%	85.0%	18

C. Temporary Cool Weather Seeding

<u>Seed</u>	<u>Minimum Seed Purity (Percent)</u>	<u>Minimum Germination (Percent)</u>	<u>Rate of Application (lb./acre)</u>
Elbon rye	95.0%	85.0%	60
Kentucky 31 Fescue	95.0%	85.0%	20

1. If required, temporary seeding shall be installed using a drill seeder without fertilizer.
2. If temporary seeding is required, the contractor will be required to disc and drag the topsoil to remove the temporary vegetation prior to the installation of the normal seed mixture.
3. The price for disking, dragging, and removing the temporary vegetation shall be subsidiary to seeding bid item.

D. Hydromulch, Seed, Lime, and Fertilizer (Slopes 0% to 5%)

1. All disturbed areas, apply the normal seed mixture using a hydroseeder along with the following components:
  - a. Seed, as noted above for normal seed mixture.
  - b. Fertilizer, as described below
  - c. Liquid Lime, as described below
  - d. Enviro-Tak fiber mulch binder, as distributed by Southwest Environment Services, Inc. (Tyler, Texas) at a rate of 60 lbs. Per acre.
  - e. Fiber mulch at a rate of 2,000 lbs. Per acre.
2. The contractor shall install a micronutrient such as Turblend, or equal, at the rate suggested by the supplier.
3. In addition to slopes between 0% and 5%, this mixture shall be applied to all areas receiving erosion control matting.

E. Bonded Fiber Matrix Much, Seed, Lime, and Fertilizer (Slopes >5%)

1. All disturbed areas shown on the plans, apply the normal seed mixture using a hydroseeder along with the following components:
  - a. Seed, as noted above for normal seed mixture.
  - b. Fertilizer, as described below.
  - c. Liquid Lime, as described below.
  - d. Bonded Fiber Matrix, as described below.
2. The Contractor shall install a micronutrient such as Turblend, or equal, at the rate suggested by the supplier.

F. Creeping Red Fescue or perennial rye: 50 percent.

2.2 SOIL MATERIALS

A. Topsoil: As specified in Section 02205.

2.3 ACCESSORIES

A. Liquid Lime:

1. Liming will be required for all area when the normal seed mixture is applied.
2. The lime to be used shall be liquid lime and shall be applied at a rate of 5 gallons per acre.
3. The liquid lime shall be flowable dolomitic limestone ground to a fineness whereby 100% will pass through a 300-mesh screen.
4. The liquid lime shall be as distributed by Southwest Environment Services, Inc. of Tyler, Texas or approved equal.
5. The liquid lime shall be applied at the same time as the seed and fertilizer with the use of a hydroseeder.

B. Mulching Material: Oat or wheat straw, free from weeds, foreign matter detrimental to plant life, and dry. Hay or chopped cornstalks are acceptable.

C. Bonded Fiber Matrix Mulch:

1. Bonded Fiber Matrix Mulch shall be one of the following products or Engineer approved equals.
  - a. Flex Term by Profile.
  - b. Spoil Guard by Mat Inc.

c. Sparmatt by Central Fiber

d. SC-150 by North American Green.

D. Plaster/cellulose Fiber Mulch:

1. Plaster/cellulose fiber mulch shall be a mixture of plaster and natural cellulose fiber mulch.
2. The plaster shall consist of naturally-occurring high purity processed gypsum and necessary additives, such as retarders and accelerators and water to form a cementitious binder that will produce a protective crust-like barrier within 4 to 8 hours after application.
3. The gypsum shall be produced from a quarried or mined source.
4. In addition, the gypsum shall be processed to be composed of a crushed, dry calcium sulfate hemihydrate (CA SO<sub>4</sub>.1/2 H<sub>2</sub>O) having a purity of not less than 88%.
5. The processed gypsum plus the necessary additives shall be furnished in bags or bulk and be accompanied by bills of landing and shipping invoices stating the gypsum purity content, dry weight, and source of manufacture.
6. Processed gypsum, which has become partially air set, lumpy, or caked prior to use will be rejected.
7. The cellulose fiber mulch shall be produced from grinding clean, whole wood chips, or fiber produced from ground newsprint with a labeled ash content not to exceed 7%.

E. Fertilizer:

1. FS O-F-241, Type I, Grade A; recommended for grass, with fifty percent of the elements derived from organic sources; of proportion necessary to eliminate any deficiencies of topsoil to the following proportions:
2. The contractor shall have a turf analysis performed for the topsoil (4 maximum).
3. Based upon the results of the turf analysis, the following fertilizer requirement may be adjusted to suit the existing topsoil.
  - a. Fertilizer shall be thirty percent (30%) nitrogen, thirty percent (30%) phosphorous, and thirty percent (30%) potash commercial fertilizer and shall be spread at the minimum rate of 650 lbs. per acre.
  - b. In addition, trace elements such a K-Mag may be required if the need is shown by the turn analysis.

F. Water:

1. Clean, fresh and free of substances or matter, which could inhibit vigorous growth of grass.
2. The Contractor shall water the seed and fertilizer as he deems necessary to establish the grass, at no expense to the Owner.

G. Prevent contamination.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that prepared soil base is ready to receive the work of this Section.

3.2 PREPARATION OF SUBSOIL

- A. Prepare sub-soil to eliminate uneven areas and low spots. Maintain lines, levels, profiles and contours. Make changes in grade gradual. Blend slopes into level areas.
- B. Remove foreign materials, weeds and undesirable plants and their roots. Remove contaminated sub-soil.
- C. Scarify subsoil to a depth of 4 inches where topsoil is to be placed. Repeat cultivation in areas where equipment, used for hauling and spreading topsoil, has compacted sub-soil.

3.3 PLACING TOPSOIL

- A. Spread topsoil to a minimum depth of 4 inches over area to be seeded. Rake until smooth.
- B. Place topsoil during dry weather and on dry unfrozen subgrade.
- C. Remove vegetable matter and foreign non-organic material from topsoil while spreading.
- D. Grade topsoil to eliminate rough, low or soft areas, and to ensure positive drainage.
- E. Install edging at periphery of seeded areas in straight lines to consistent depth.

3.4 FERTILIZING

- A. Apply fertilizer in accordance with manufacturer's instructions.
- B. Apply after smooth raking of topsoil and prior to roller compaction.
- C. For dry placing do not apply fertilizer at same time or with same machine as will be used to apply seed.
- D. Lightly water to aid the dissipation of fertilizer.

3.5 SEEDING (Cool Weather Only)

- A. Apply seed at a rate of 5 pounds per 1000 square foot evenly in two intersecting directions. Rake in lightly.
- B. Do not seed areas in excess of that which can be mulched on same day.
- C. Planting Season: September through March, fescue/rye only.
- D. Do not sow immediately following rain, when ground is too dry, or during windy periods.
- E. Roll seeded area with roller not exceeding 112 pounds.
- F. Immediately following seeding and compacting, apply mulch to a thickness of 1/8 inches. Maintain clear of shrubs and trees.
- G. Apply water with a fine spray immediately after each area has been mulched. Saturate to 3 inches of soil.

3.6 HYDROSEEDING

- A. Apply seeded slurry with a hydraulic seeder at a rate of 5 pounds per 1000 square feet evenly in two intersecting directions.
- B. Do not hydroseed area in excess of that which can be mulched on same day.
- C. Immediately following seeding, apply mulch to a thickness of 1/8 inches. Maintain clear of shrubs and trees.
- D. Apply water with a fine spray immediately after each area has been mulched. Saturate to 3 inches of soil.

3.7 MAINTENANCE

- A. Mow grass at regular intervals to maintain at a maximum height of 2½ inches. Do not cut more than 1/3 of grass blade at any one mowing.
- B. Neatly trim edges and hand clip where necessary.
- C. Immediately remove clippings after mowing and trimming.
- D. Water to prevent grass and soil from drying out.
- E. Immediately reseed areas which show bare spots.

3.8 SCHEDULE

- A. All disturbed areas shall be hydromulched with the Normal Application Seed Mixture unless specified otherwise.

END OF SECTION

DIVISION 03

SECTION 03100  
CONCRETE FORMWORK

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Formwork for cast-in place concrete, with shoring, bracing and anchorage.
- B. Openings for other work.
- C. Form accessories.
- D. Form stripping.

1.2 RELATED SECTIONS

- A. Section 03200 - Concrete Reinforcement.
- B. Section 03300 - Cast-in-Place Concrete.

1.3 REFERENCES

- A. ACI 301 - Structural Concrete for Buildings.
- B. ACI 318 - Building Code Requirements for Reinforced Concrete.
- C. ACI 347 - Recommended Practice For Concrete Formwork.
- D. PS 1 - Construction and Industrial Plywood.

1.4 DESIGN REQUIREMENTS

- A. Design, engineer and construct formwork, shoring and bracing to conform to design and code requirements; resultant concrete to conform to required shape, line and dimension.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Shop Drawings: Indicate pertinent dimensions, materials, bracing, and arrangement of joints and ties.
- C. Product Data: Provide data on void form materials and installation requirements.

1.6 QUALITY ASSURANCE

- A. Perform Work in accordance with ACI 347, 301, 318.

1.7 QUALIFICATIONS

- A. Design formwork under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the State of Texas.

1.8 REGULATORY REQUIREMENTS

- A. Conform to applicable code for design, fabrication, erection and removal of formwork.

1.9 FIELD SAMPLES

- A. Provide under provisions of Section 01400.
- B. Coordinate with requirements stated in Section 03100 and 03300.

1.10 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect and handle products to site under provisions of Section 01600.
- B. Deliver void forms and installation instructions in manufacturer's packaging.
- C. Store off ground in ventilated and protected manner to prevent deterioration from moisture.

1.11 COORDINATION

- A. Coordinate work under provisions of Section 01039.
- B. Coordinate this Section with other Sections of work, which require attachment of components to formwork.
- C. If formwork is placed after reinforcement resulting in insufficient concrete cover over reinforcement before proceeding, request instructions from Engineer.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Forms
  - 1. Forms shall be of wood, metal, highly water resistant plywood, or other material approved by the Engineer.
  - 2. Forms for sections greater than 18" thick shall be of wood.
  - 3. Form surfaces shall be smooth and free from irregularities, dents, sags, or holes when used for permanently exposed surfaces.
  - 4. Bolts and rods used for internal ties shall be so arranged that, when the forms are removed, all metal will not be less than 2" from any concrete surface.

5. Wire ties will not be permitted where concrete surface will be exposed to weathering, and discoloration would be objectionable.
6. Exposed concrete shall have approved form liners of masonite or plywood, or shall be constructed of smooth surfaced plywood.

B. Corner Forms

1. Corner forms forming  $\frac{3}{4}$ " chamfers or as otherwise specified on plans, shall be used on all outside corners that are to be exposed in the finished structure.
2. Chamfer forms shall be molded plastic or polyvinyl chloride radius or chamfer strips. Use one style of form throughout the project.

C. Rustication and Score Line Strips

1. Rustication and score line strips shall be a non-absorbent material such as extruded polyvinyl chloride, plastic, fiberglass or metal or they may be milled from good quality lumber and well sealed to prevent moisture absorption.
2. Wood strips may not have protruding splinters, which may become embedded in the concrete.
3. Sealing wood shall be accomplished by immersion or brushing on two coats of form coating.

D. Form Ties

1. Form ties for concrete shall have an approved waterstop barrier to prevent seepage of moisture along the ties.
2. The ends of the tie metal after breaking off shall be minimum of  $1\frac{1}{2}$ " from the finished wall face.
3. Submit samples to the Engineer for review.

PART 3 EXECUTION

3.1 EXAMINATION:

- A. Verify lines, levels and centers before proceeding with formwork.
- B. Ensure that dimensions agree with drawings.

3.2 ERECTION - FORMWORK

- A. Erect formwork, shoring and bracing to achieve design requirements, in accordance with requirements of ACI 301.
- B. Provide bracing to ensure stability of formwork. Shore or strengthen formwork subject to over stressing by construction loads.

- C. Arrange and assemble formwork to permit dismantling and stripping. Do not damage concrete during stripping. Permit removal of remaining principal shores.
- D. Align joints and make watertight. Keep form joints to a minimum.
- E. Obtain approval before framing openings in structural members, which are not indicated on Drawings.
- F. Provide fillet and chamfer strips on external corners of beams, joists, and columns.
- G. Install void forms in accordance with manufacturer's recommendations. Protect forms from moisture or crushing.

### 3.3 APPLICATION - FORM RELEASE AGENT

- A. Apply form release agent on formwork in accordance with manufacturer's recommendations.
- B. Apply prior to placement of reinforcing steel, anchoring devices, and embedded items.
- C. Do not apply form release agent where concrete surfaces will receive special finishes or applied coverings, which are effected by agent.
- D. Soak inside surfaces of untreated forms with clean water.
- E. Keep surfaces coated prior to placement of concrete.

### 3.4 INSERTS, EMBEDDED PARTS, AND OPENINGS

- A. Provide formed openings where required for items to be embedded in passing through concrete work.
- B. Locate and set in place items, which will be cast directly into concrete.
- C. Coordinate with work of other sections in forming and placing openings, slots, reglets, recesses, sleeves, bolts, anchors, other inserts, and components of other Work.
- D. Install accessories in accordance with manufacturer's instructions, straight, level, and plumb.
- E. Ensure items are not disturbed during concrete placement.
- F. Install waterstops continuous without displacing reinforcement.
- G. Heat seal joints watertight.
- H. Provide temporary ports or openings in formwork where required to facilitate cleaning and inspection.
- I. Locate openings at bottom of forms to allow flushing water to drain.

- J. Close temporary openings with tight fitting panels, flush with inside face of forms, and neatly fitted so joints will not be apparent in exposed concrete surfaces.

### 3.5 FORM CLEANING

- A. Clean forms as erection proceeds, to remove foreign matter within forms.
- B. Clean formed cavities of debris prior to placing concrete.
- C. Flush with water or use compressed air to remove remaining foreign matter.
- D. Ensure that water and debris drain to exterior through clean-out ports.
- E. During cold weather, remove ice and snow from within forms.
- F. Do not use de-icing salts.
- G. Do not use water to clean out forms, unless formwork and concrete construction proceed within heated enclosure.
- H. Use compressed air or other means to remove foreign matter.

### 3.6 FORMWORK TOLERANCES

- A. Construct formwork to maintain tolerances required by ACI 301.
- B. Camber slabs and beams  $\frac{1}{4}$  inch per 10 feet in accordance with ACI 301.

### 3.7 FIELD QUALITY CONTROL

- A. Inspect erected formwork, shoring, and bracing to ensure that work is in accordance with formwork design, and that supports, fastenings, wedges, ties, and items are secure.
- B. Do not reuse forms that are worn or damaged beyond repair. Do not patch formwork.

### 3.8 FORM REMOVAL

- A. Do not remove forms or bracing until concrete has gained sufficient strength to carry its own weight and imposed loads.
- B. Loosen forms carefully. Do not wedge pry bars, hammers, or tools against finish concrete surfaces scheduled for exposure to view.
- C. Store removed forms in manner that surfaces to be in contact with fresh concrete will not be damaged. Discard damaged forms.
- D. Forms or shores for supported slabs and beams shall not be removed until the concrete, so supported, has acquired 70 percent of its design strength; except where loads other than the dead weight of the concrete are added, the shores shall not be removed until 24 hours after the concrete has obtained 90 percent of its design strength.

- E. Forms shall be removed immediately after expiration of the lapsed time specified above or sooner, if required by the Engineer, where concrete is to receive a rubbed finish.

END OF SECTION

SECTION 03200  
CONCRETE REINFORCEMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Reinforcing steel bars, wire fabric and accessories for cast-in-place concrete.

1.2 RELATED SECTIONS

- A. Section 03100 - Concrete Formwork.
- B. Section 03300 - Cast-in-Place Concrete.

1.3 REFERENCES

- A. ACI 301 - Structural Concrete for Buildings.
- B. ACI 318 - Building Code Requirements For Reinforced Concrete.
- C. ACI SP-66 - American Concrete Institute - Detailing Manual.
- D. ANSI/ASTM A82 - Cold Drawn Steel Wire for Concrete Reinforcement.
- E. ANSI/ASTM A184 - Fabricated Deformed Steel Bar Mats for Concrete Reinforcement.
- F. ANSI/ASTM A185 - Welded Steel Wire Fabric for Concrete Reinforcement.
- G. ANSI/ASTM A496 - Deformed Steel Wire Fabric for Concrete Reinforcement.
- H. ANSI/ASTM A497 - Welded Deformed Steel Wire Fabric for Concrete Reinforcement.
- I. ANSI/AWS D1.4 - Structural Welding Code for Reinforcing Steel.
- J. ASTM A615 - Deformed and Plain Billet Steel Bars for Concrete Reinforcement.
- K. ASTM A767 - Zinc-Coated (Galvanized) Bars for Concrete Reinforcement.
- L. ASTM A775 - Epoxy-Coated Reinforcing Steel Bars.
- M. ASTM D3963 - Epoxy-Coated Reinforcing Steel.
- N. AWS D12.1 - Welding Reinforcement Steel, Metal Inserts and Connections in Reinforced Concrete Construction.
- O. CRSI - Concrete Reinforcing Steel Institute - Manual of Practice.
- P. CRSI - Placing Reinforcing Bars.
- Q. ASTM A884 - Epoxy-Coated Steel Wire and Welded Wire Fabric for Reinforcement.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Shop Drawings:
  - 1. Indicate bar sizes, spacings, locations, and quantities of reinforcing steel and wire fabric, bending and cutting schedules, and supporting and spacing devices.
- C. Manufacturer's Certificate:
  - 1. Certify that products meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

- A. Perform Work in accordance with CRSI - Manual of Standard Practice, ACI 301, ACI SP-66, ACI 318.
- B. Submit certified copies of mill test report of reinforcement materials analysis.
- C. Provide Engineer with access to fabrication plant to facilitate inspection of reinforcement.
- D. Provide notification of commencement and duration of shop fabrication in sufficient time to allow inspection
- E. Store steel reinforcement above ground on platforms, skids or other supports.

1.6 QUALIFICATIONS

- A. Design reinforcement under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the State of Texas.
- B. Welders' Certificates:
  - 1. Submit under provisions of Section 01400 Manufacturer's Certificates, certifying welders employed on the Work, verifying AWS qualification within the previous 12 months.

1.7 COORDINATION

- A. Coordinate work under provisions of Section 01039.
- B. Coordinate with placement of formwork, formed openings and other Work.

PART 2 PRODUCTS

2.1 REINFORCEMENT

- A. Reinforcing Steel:
  - 1. ASTM A615, 60 yield grade; deformed billet steel bars.

- B. Welded Steel Wire Fabric:
  - 1. ASTM A185 or ASTM A497 Deformed Type.

## 2.2 ACCESSORY MATERIALS

- A. Tie Wire:
  - 1. Minimum 16 gage annealed steel.
- B. Special Chairs, Bolsters, Bar Supports, Spacers Adjacent to Weather Exposed Concrete Surfaces: Plastic coated steel, Stainless steel type; size and shape as required.

## 2.3 FABRICATION

- A. Fabricate concrete reinforcing in accordance with CRSI Manual of Practice, ACI SP-66, ACI 318, ANSI/ASTM A184.
- B. Reinforcement bars shall be bent cold to the shapes indicated on the Plans.
- C. Fabrication tolerances, fabrication, and detailing of steel reinforcement shall conform to ACI – 315.
- D. Steel reinforcement shall be of the type and size, cut to lengths and bent to shapes as indicated on the Plans.
- E. Unless otherwise indicated, hooks, laps, splices, embedment lengths, and other details of reinforcement shall be provided as set forth in the ACI Building Code (ACI – 318) to develop the full tensile strength of the bar.
- F. Welding may not be used except with the specific approval of the Engineer. Welding, when approved, shall conform to ANSI/AWS D12.1.
- G. No splices of bars, except when shown on the Plans, will be permitted without the approval of the Engineer.
- H. Welded wire fabric shall be lap spliced a minimum of 2" plus the bar spacing.
- I. Splices in reinforcing bars shall conform to the general requirements of the ACI Code, except rung tension reinforcement splices, which should be a minimum of 40 bar diameters.
- J. Splices should be staggered where possible or increase by 30 percent.

## PART 3 EXECUTION

### 3.1 PLACEMENT

- A. Place, support and secure reinforcement against displacement by ties of annealed wire, or suitable clips at intersections.

1. Do not deviate from required position.
  2. Placing tolerances shall conform to ACI-318.
- B. Nails shall not be driven into the wall forms to support reinforcement nor shall any other device used for this purpose come in contact with the form on the waterside of any water containing structure.
- C. Metal devices used to provide the required clear distances from reinforcing steel to waterside of concrete surfaces shall be galvanized, or shall be as approved by the Engineer.
- D. The main reinforcement of slabs in contact with the ground shall be supported in its proper position, as indicated on Plans, by means of precast cement mortar blocks (composed of one part cement to two parts sand), of approved dimensions, resting on the slabs' sub-base.
- E. The slab reinforcement shall not be used to support planking or runways used in placing concrete.
- F. Bending of bars embedded in hardened concrete will not be permitted except when specifically approved by the Engineer for the field condition encountered.
- G. Floor slabs, galleries, deck slabs, beams, metal chairs, spacers and other metal accessories necessary to provide the required clear distances and proper alignment and spacing between bars shall be galvanized or shall have plastic protective covering over portions in contact with forms.
- H. Clean reinforcement free of scale, loose or flaky rust or other foreign material, including oil, mud or coating that will reduce bond to concrete.
- I. Accommodate placement of formed openings.
- J. Maintain concrete cover around reinforcing as follows:
1. Slabs:
 

1½ inches	in general, top and bottom.
1½ inches	at surfaces troweled as floor finish, walkway, or driveway.
2 inches	on bottom for slabs over water
  2. Footings:
 

2 inches	at top of footings.
3 inches	at bottom, sides, and end of footings.

- 3. Walls:
  - 2 inches on surfaces against earth.
  - 1 inch on interior surfaces.
- 4. Beams and Girders:
  - 2 inches minimum to stirrup steel.
  - 2½ inches minimum to longitudinal steel.
- 5. Columns:
  - 2 inches in general, to main vertical reinforcement.
  - 2 ½ inches to main reinforcement on surfaces in contact with water.

3.2 FIELD QUALITY CONTROL

- A. Field inspection will be performed under provisions of Section 01400.

END OF SECTION

SECTION 03300  
CAST-IN-PLACE CONCRETE

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Mix design requirements for cast-in-place concrete consisting of Portland cement, aggregate, water, and admixtures.
- B. Formwork, reinforcement, joints, and placing requirements for cast-in-place concrete.

1.2 RELATED SECTIONS

- A. Section 01400 - Quality Control
- B. Section 03100 - Concrete Formwork
- C. Section 03200 - Concrete Reinforcement

1.3 REFERENCES

- A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
  - 1. ASTM A615--Deformed and Plain Billet Steel Bars for Concrete Reinforcement.
  - 2. ASTM C31--Making and Curing Concrete Test Specimens in the Field.
  - 3. ASTM C33--Concrete Aggregates.
  - 4. ASTM C39--Compressive Strength of Cylindrical Concrete Specimens.
  - 5. ASTM C94--(1986; Rev. b) Ready-Mixed Concrete.
  - 6. ASTM C143--Slump of Portland Cement Concrete.
  - 7. ASTM C172--Sampling Freshly Mixed Concrete.
  - 8. ASTM C173--Air Content of Freshly Mixed Concrete by the Volumetric Method.

1.4 SUBMITTALS

- A. Section 01300--Submittals: Procedures for submittals.
- B. Certificates: Mill certificates for bulk cement.
- C. Product Data: Manufacturer's data sheets for Engineer approved additives and bonding agents.
- D. Submit test data on proposed design mixes for each type of concrete to be used in the project to verify that the Specification requirements are met or exceeded.

1.5 QUALITY ASSURANCE

- A. Project Controls: Provide necessary controls during evaluation of material, mix designs, production and delivery of concrete, placement, compaction, finishing and curing necessary to assure that Work will be accomplished in such a manner to produce the Work in accordance with Contract Documents.

1.6 DELIVERY, STORAGE, AND HANDLING:

- A. Materials shall be delivered, stored, and handled in a manner to prevent deterioration, contamination, or any other circumstance that would be harmful to cast-in-place concrete.

1.7 PROJECT CONDITIONS:

- A. Do not place concrete during rain, sleet, or snow unless protection is provided and approved by the Engineer.
- B. Coordinate concrete placement schedule with other related work.
- C. Notify Engineer at least 24 hours before placement.

PART 2 PRODUCTS

2.1 MATERIALS:

- A. Cement:
  - 1. ASTM C 94, Type I cement, unless approved by the Engineer.
  - 2. Only one brand of any one type of cement shall be used for exposed concrete surfaces of any individual structure.
- B. Fine Aggregate: Aggregate meeting the requirements of ASTM C33.
- C. Coarse Aggregate: Aggregate sizes No. 467 or No. 57 according to ASTM C33 or as approved by the Engineer.
- D. Water: Potable water free from detrimental chemicals and solids that will decrease the strength of the concrete.
- E. Embedded Items: Embedded items shall be of the size and type shown or as needed for the application.
- F. Curing Materials: Curing materials shall be burlap, impervious sheets, or membrane-forming compounds.
- G. Dowels: Plain carbon steel bars, minimum yield point of 40,000 psi for use in slabs on grade.

- H. Expansion Joint Filler Strips: Premolded nonextruding, resilient bituminous or non bituminous type for use in concrete paving or construction, thickness as shown.
- I. Form Materials: Wood, metal or other Engineer approved materials that will produce the specified finishes without adversely affecting the concrete surfaces.
- J. Form Coating: Nonstaining form oil or form-release agent that will not deleteriously affect concrete surfaces nor impair subsequent applications.
- K. Form Ties: Metal, factory-fabricated removable snap-off type, that will not leave holes less than 1/4 inch nor more than 1 inch deep and not more than 1 inch in diameter.
- L. Joint Sealant: As approved by Engineer for sealing joints in concrete against moisture infiltration. Reference Section 07900.
- M. Reinforcement: Bar reinforcement shall be deformed, Grade 60 conforming to ASTM A615. Mesh reinforcement shall be welded wire fabric with wires at right angles to each other.
- N. Bonding Agent: As approved by Engineer.
- O. Admixtures: Air-entraining, retarders, and other admixtures as approved by Engineer.

## 2.2 MIX DESIGN:

- A. Concrete Class: Concrete mixes shall be proportioned to obtain the following characteristics:
  - 1. Class "A": Minimum compressive strength of 3,500 psi at 28 days with a minimum of 5 bags of cement per cubic yard.
  - 2. Class "B": Minimum compressive strength of 2,500 psi at 28 days with a minimum of 4 bags of cement per cubic yard.
- B. All concrete shall be Class "A", unless specified otherwise.
- C. Air Content: Total air content of exterior concrete shall be maintained at 5 to 7 percent by volume of concrete.
- D. Slump: Slump shall be 3 to 5 inches. If admixtures are used, slump shall be as approved by Engineer.

## 2.3 STORAGE:

- A. Materials shall be stored so as not to deteriorate or become contaminated.

## PART 3 EXECUTION

### 3.1 FORMWORK:

- A. Formwork shall be made mortar tight, properly aligned and adequately supported to produce concrete conforming accurately to the indicated shapes, lines, dimensions, and with surfaces free of offsets, waviness, or bulges.
- B. Unless otherwise shown exposed external corners shall be chamfered, beveled, or rounded by moldings placed in the forms. Chamfer shall be 1" nominal.
- C. Surfaces shall be thoroughly cleaned and coated before each use.
- D. Forms shall be removed at a time and in a manner that will not damage the concrete.

3.2 REINFORCEMENT:

- A. Reinforcement shall be fabricated to the shapes required.
- B. Reinforcement shall be interrupted 2 inches clear on each side of expansion joints.
- C. Reinforcement shall be continuous through contraction and construction joints.
- D. Supports fabricated of plastic, or other Engineer approved material, shall be used to support reinforcement during placing operations.
- E. Dowels and tie bars shall be installed at right angles to joints, accurately aligned parallel to the finished surface, and rigidly held in place and supported during concrete placement.
- F. One end of dowels shall be oiled or greased.

3.3 INSTALLATION OF ANCHORAGE ITEMS:

- A. Installation of anchorage items shall be as shown or required to ensure sufficient anchorage for purpose intended.

3.4 JOINTS:

- A. Construction/expansion, traverse, longitudinal, and cold joints shall be installed in accordance with the attached geotechnical report and as shown in the plans. Any deviations from joint types or layouts shall be approved by the Engineer prior to placement.

3.5 PLACING:

- A. Surfaces to receive concrete shall be clean and free from frost, ice, mud, and water.
- B. Concrete may be placed directly on impervious surfaces that are thoroughly moistened but not muddy.
- C. During cold weather, in-place concrete shall be protected from freezing weather, throughout the curing period.
- D. During hot weather, a retarder may be used if approved by the Engineer.

- E. Concrete to receive other construction shall be struck to the proper level leaving a textured surface to receive the additional construction.

3.6 CONSOLIDATION OF CONCRETE:

- A. Except for slabs 4 inches or less, each layer of concrete shall be consolidated with internal concrete vibrators supplemented by handspading, rodding, and tamping.
- B. Vibrating equipment shall be adequate to thoroughly consolidate the concrete.
- C. Concrete in slabs 4 inches and less shall be consolidated by compacting and screening.

3.7 FINISHING CONCRETE:

- A. Formed Surfaces:
  - 1. Fins and loose material shall be removed.
  - 2. Unsound concrete, voids over 1/2 inch in diameter, and tie-rod and bolt holes shall be cut back to solid concrete, reamed, brush-coated with cement grout, and filled solid with a stiff portland-cement-sand mortar mix.
  - 3. Patchwork shall finished flush with adjoining concrete surfaces and, where exposed, shall match adjoining surfaces in texture and color.
- B. Unformed Surfaces:
  - 1. Surfaces shall finished to a true plane with no deviation exceeding 5/16 inch when tested with a 10-foot straightedge.
  - 2. Surfaces shall be screed and floated to the required finish level with no coarse aggregate visible before finishing as specified below.
- C. Monolithic Finish:
  - 1. Monolithic finish shall be given to flatwork unless otherwise specified.
  - 2. After the surface moisture has disappeared, floated surfaces shall be steel-trowled to a smooth, even, dense finish, free from blemish including trowel marks.

3.8 CURING:

- A. Curing shall start as soon as free water has disappeared from concrete surfaces after placing and finishing.
- B. Curing materials shall be applied and maintained so as to protect the concrete from moisture loss for 7 days.
- C. Curing shall be accomplished by impervious sheet or membrane-forming curing compound.

- D. Concrete surfaces shall be thoroughly wetted before covering with impervious sheet materials.
- E. Membrane-forming curing compound shall be applied with mechanical spraying equipment at a coverage rate as recommended by manufacturer.
- F. Curing compound shall not be used on surfaces receiving applications depending on adhesion or bonding.

3.9 TESTING:

- A. The frequency and type of tests shall be determined by the Engineer.
- B. Aggregates: Aggregates shall be sampled and tested in accordance with ASTM C33.
- C. Sampling of Concrete: Samples of concrete for air, slump, unit weight, and strength tests shall be taken in accordance with ASTM C172.
- D. Air Content: Tests for air content shall be performed in accordance with ASTM C173.
- E. Slump: Tests shall be performed in accordance with ASTM C143.
- F. Cylinders: Cylinders shall be molded and cured according to ASTM C31 and tested in accordance with ASTM C39.

END OF SECTION

#18

## TxCDBG 7216075 First Time Water Services Vega Verde Road

Meter No.	Name	Phone#	Address	LMI
170104431	Eduardo Hernandez	(210) 259-3060	3875 Vega Verde Road Del Rio, Tx. 78840	Yes
17010429	Randy Abbey	(830) 313-6972	3958 Vega Verde Road Del Rio, Tx. 78840	Yes
17010430	Randy Abbey	(830) 313-6972	3958 Vega Verde Road Del Rio, Tx. 78840	Yes
18076984	Michael Johnston	(830) 703-8335	3958 Vega Verde Road PO Box 421045 Del Rio, Tx. 78842	Yes
11292503	Fred Schumann	(830) 734-1673	108 Old Foster Road Del Rio, Tx. 78840	Yes
11292464	Corea	N/A	208 Old Foster Road Del Rio Tx. 78840	Yes
18240777	Tanya Brown	N/A	4700 Vega Verde Road Del Rio, Tx. 78840	Yes
11292463	Irma Vela	(210) 367-1200	4903 Vega Verde Road Del Rio, Tx. 78840	Yes
172161187	Angela Borcky	(830) 309-6280	4933 Vega Verde Road Del Rio, Tx. 78840	Yes
18240778	Carl Molly	(830) 734-3307	4951 Vega Verde Road Del Rio, Tx. 78840	Yes
18240779	Alfanzo Montes	N/A	5009 Vega Verde Road HCR 2 Box 6B Del Rio, Tx. 78840	Yes
18240781	James Dalman	N/A	5133 Vega Verde Road Del Rio, Tx. 788840	Yes
18240780	Nathan Corey	N/A	5167 Vega Verde Road Del Rio, Tx. 78840	Yes
11292461	Ingram Ready Mix	N/A	4712 Vega Verde Road Del Rio, Tx. 78840	No

VAL VERDE COUNTY RESOLUTION

#21

**WHEREAS**, The Val Verde County Commissioners Court finds it in the best interest of the citizens of Val Verde County that the State Criminal Justice Planning Fund for the Val Verde County DWI/ Drug Specialty Court be implemented; and

**WHEREAS**, The Val Verde County Commissioners Court agrees to provide applicable matching fund for the said project as required by the Office of the Governor grant application; and

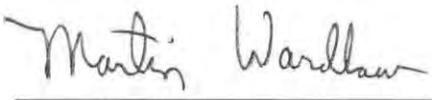
**WHEREAS**, The Val Verde County Commissioners Court agrees that in the event of loss or misuse of the Office of the Governor funds. Val Verde County Commissioners Court assures that the funds will be returned to the Office of the Governor in full.

**WHEREAS**, The Val Verde County Commissioners Court designates the Val Verde County Judge as the grantee's authorized official. The authorized official is given the power to apply for, accept, reject, alter or terminate the grant on behalf of the applicant agency.

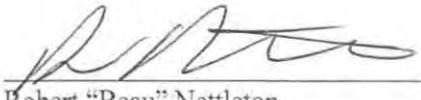
**NOW THEREFORE, BE IT RESOLVED** that the Val Vere County Commissioners Court approves submission of the grant application for the State Criminal Justice Planning Fund for the Val Verde County DWI/Drug Specialty Court Program Grant Number 3527802 to the Office of the Governor.

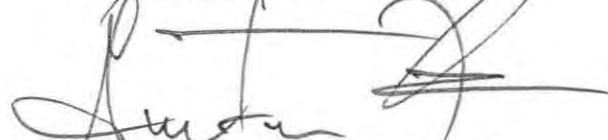
Passed and Approved this 6<sup>th</sup> of March 2019.

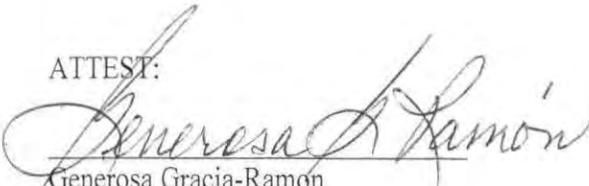
  
Hon. Lewis G. Owens, Jr.  
Val Verde County Judge

  
Martin Wardlaw  
Commissioner Pct. #1

  
Juan Carlos Vazquez  
Commissioner Pct. #2

  
Robert "Beau" Nettleton  
Commissioners Pct. #3

  
Gustavo Flores  
Commissioners Pct. #4

ATTEST:  
  
Generosa Gracia-Ramon  
County Clerk



Grant Number: 3527802  
Val Verde OOG DWI/Drug Specialty Court Resolution

#22

# QUOTE CONFIRMATION



DEAR RAMIRO BARRERA,

Thank you for considering CDW•G for your computing needs. The details of your quote are below. [Click here](#) to convert your quote to an order.

QUOTE #	QUOTE DATE	QUOTE REFERENCE	CUSTOMER #	GRAND TOTAL
KKMV325	2/5/2019	KKMR018	3005603	\$373.32

QUOTE DETAILS				
ITEM	QTY	CDW#	UNIT PRICE	EXT. PRICE
<a href="#">Adobe Acrobat Pro 2017 - license - 1 user</a> Mfg. Part#: 65280374AF01A00 UNSPSC: 43232112 Electronic distribution - NO MEDIA Contract: Sourcewell National Sherriff Associations Software (100614#CDW)	1	4644593	\$373.32	\$373.32

PURCHASER BILLING INFO		SUBTOTAL	\$373.32
<b>Billing Address:</b> VAL VERDE COUNTY ACCTS PAYABLE 901 N BEDELL AVE STE A DEL RIO, TX 78840-4170 <b>Phone:</b> (830) 774-7505 <b>Payment Terms:</b> Net 30 Days-Govt State/Local		SHIPPING	\$0.00
		SALES TAX	\$0.00
		GRAND TOTAL	\$373.32
		<b>DELIVER TO</b> <b>Shipping Address:</b> VAL VERDE COUNTY RAMIRO BARRERA 901 N BEDELL AVE STE A DEL RIO, TX 78840-4170 <b>Phone:</b> (830) 774-7505 <b>Shipping Method:</b> ELECTRONIC DISTRIBUTION	

Need Assistance? CDW•G SALES CONTACT INFORMATION

	Darius Menafield	(866) 448-3728	darimen@cdwg.com
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This quote is subject to CDW's Terms and Conditions of Sales and Service Projects at <http://www.cdw.com/content/terms-conditions/product-sales.aspx>  
For more information, contact a CDW account manager

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*Antonio Jr III*

#24

I, \_\_\_\_\_ (authorized signer on behalf of the county), approve proceeding with the Election Security Assessment program as outlined in the Solution Project Proposal provided. My county has no changes to the Proposal, and (please check one):

\_\_\_\_\_ Does not require approval from the Commissioners Court (my approval as the authorized approver is enough)

\_\_\_\_\_ Requires approval from the Commissioners Court, which met and voted its approval on \_\_\_\_\_ (Date). Minutes from the meeting are attached.

I am authorized by the county to approve this work and have the agreement of the IT Staff (if applicable), Voter Registrar, County Clerk, and/or Elections Administrator that all areas of voter registration and election management outlined in the Solution Project Proposal will participate in this assessment.

#27



Professional Turf Products, L.P.

9468 Selma Parkway  
Selma, Texas 78154  
Mike Heard  
(682) 217-7556  
heardm@proturf.com



Ship To	Val Verde County	Date:	2/27/2019
Bill To	BUYBOARD (CONTRACT # 529-17) - Credit Cards Not Accepted	Tax Rate	
Contact		Destination	2.00%
Address	400 Pecan Street, Del Rio, Texas 78840	Trade-In	
		Finance	
Phone	830.774.7501	Account Type	Contract
Email		QMS: ID	Q10740
Comments:			

Proposal

Qty	Model #	Description	Unit	Extended
1	08705	Sand Pro 5040	\$	17,579.33
1	08713	Flex Blade	\$	899.27
1	08712	Front Lift Frame Assembly	\$	1,582.59
1	08734	Solid Tine Toolbar	\$	864.62
1	08731	Mid-Mount Assembly	\$	1,288.47
1	08752	Spring Rake	\$	641.42
1	08757	Steel Drag Mat	\$	257.86
1	08767	QAS Flex Tooth Rake	\$	1,364.22
1	108-9427	QAS A-Frame Assembly	\$	374.72
1	08756	Drag Mat Carrier System	\$	1,201.45
1	08782	Front Remote Hydraulics	\$	577.76
1	30035	400 Hour Filter Maintenance Kit	\$	105.24
1	08766	Sport Field Edger	\$	3,295.72
1	LB-100-5040	Lip Broom - Front Mount Complete	\$	2,907.00
1	Freight	Freight	\$	280.50
		<b>Toro Sand Pro 5040</b>	\$	<b>33,220.18</b>

SubTotal	\$	33,220.18
Destination		Included
Tax (Exempt)	\$	-
<b>TOTAL</b>	<b>\$</b>	<b>33,220.18</b>

Comments:

For all New Equipment, Demo units may be available for up to 20% savings.  
For all New Equipment, Refurbished units may be available for up to 40% savings.

Terms & Conditions:

- Orders are considered contractual. Order cancellations are subject to fees up to 10% of the original order value.
- New equipment delivery time is estimated at six weeks from the time credit is approved & documents are executed.



ABI Attachments, Inc.  
520 S Byrkit Ave  
Mishawaka IN 46544  
United States  
877-788-7253  
www.ABIattachments.com

Quote #QO311691 #27  
ID #: 349912 Roy Musquiz  
Quote Date: 2/5/2019

**Bill To**

Roy Musquiz  
Val Verde County  
400 Pecan St.  
Del Rio TX 78840

**Ship To**

Roy Musquiz  
Val Verde County  
400 Pecan St.  
Del Rio TX 78840

**Quote Details**

Expires - End Of Month Quoted  
Terms -  
Quoted By - Jack L Owens

Quantity	Items	Weight	Price	Amount
1	<b>10-90229 ABI Force Z-18 V1S - Zero-Turn Machine (Sports Turf)</b> Base Unit: The patented ABI Force (V1) zero-turn chassis includes a commercial 18 hp V-Twin OHV (570cc) Vanguard engine, commercial hydrostatic drive system, patented hydraulic spring mid-mount system, attachment tool bar, Speed-Lock, Depth-Lock, removable scarifiers, and a Multi-function rake   Commercial 24-Month (or 1,500 operational Hours) Chassis Warranty and 36-Month Engine Warranty   (Some Customer Assembly & Uncrating Required   Required Attachments Sold Separately)	1,400	\$15,899.00	\$15,899.00
1	<b>10-90231 Rear Hydraulic Lift System for ABI Force</b> For ultimate efficiency and finesse the rear hydraulic lift system allows fingertip control of rear-mount attachments. (Customer Assembly Required)	50	\$529.00	\$529.00
1	<b>10-90165 VibraFlex 5' Infield Drag (Model 3800)</b> ABI's patent-pending VibraFlex attachment prepares infield surfaces with unmatched control and precision. The easily replaced u-pins are arranged in 4 staggered rows with 1/2" spacing between each. A complete set of 1/2" and 3/4" u-pins are provided. 1/2" pins are preinstalled. Change out pins based upon application and desired results. MODEL 3800 (60" wide mid-mount attachment)	75	\$549.00	\$549.00
1	<b>10-90253 Profile Blades For Rascal MVP &amp; Force (Set of 2)</b> Profile Blades de-compact the infield and warning track surfaces and eliminate vegetation at the root level without up-ending the infield's profile during light renovation work. (5'5" Wide)	36	\$229.00	\$229.00
1	<b>10-99029 Mini-Box Blade for ABI Force (Solid Edge)</b> The solid edge Mini-Box Blade attaches to the multi-function rake at the mid-point of the ABI Force. With fingertip control of height and pitch from the powerful hydraulic and spring-loaded arms, users can quickly and effectively level the infield, remove loosened debris and rocks, and distribute conditioner around the field. (Solid Edge / 60" Mid-mount Attachment / Customer Assembly Required)	60	\$329.00	\$329.00
1	<b>10-90105 Infield Lip Edger System For ABI Force (V2)</b> Renovate the infield lip with this patent-pending edger system. It mounts to the hydraulically controlled and patented mid-mount system for complete finger-tip control. The 18" disk cuts a vertical slit to create a turf edge while the sub-surface blade cuts the roots horizontally for easy removal. A sight gauge on the front of the ABI Force assists in cutting clean lines and it features a radius offset to cut a clean outfield ark with ease. (Version 2 / Customer Assembly Required)	150	\$799.00	\$799.00
1	<b>10-90164 7' Fine Finish Broom (For Hydraulic Lift) ABI Force</b> The Fine Finish Broom creates the perfect finish in both high and low moisture conditions on well-maintained surfaces. This broom is 7' wide and offers 3 rows of replaceable bristles. FOR ABI Force WITH HYDRAULIC LIFT. (Customer Assembly Required)	50	\$379.00	\$379.00
1	<b>10-90167 6' Rigid Drag Mat w/Leveling Bar</b> The Rigid Drag Mat with leveling bar is an all-purpose attachment to level, smooth, and finish. This drag mat is 6' wide and 1.5' long and is designed to float material from high areas into low areas WITHOUT following small contours of the ground. (Customer Assembly Required)	70	\$379.00	\$379.00
1	<b>10-90104 6' Coco Mat and Level Bar For ABI Force</b> The Coco Mat works amazingly well in dry conditions for a pristine finish. Coco Mats are also used in wet conditions to help absorb moisture to get game ready faster. (Customer Assembly Required)	40	\$479.00	\$479.00
1	<b>10-90323 40" Plug Aerator System For ABI Force</b> The 40" plug aerator, mounted to hydraulic lift system, enables 100,000 sq. ft. per hour of aerating production. With hydraulic down-pressure and 300 lbs. of weights, this machine outperforms many dedicated aerators while achieving core depths up to 3". (Requires customer to swap out mid-mount system. This process takes approximately 30 minutes.)	550	\$1,799.00	\$1,799.00
1	<b>12-00000 Hydraulic Broadcast Spreader For ABI Force (120lb)</b> The hydraulic seed & fertilizer spreader can hold 120 lbs. of material and has an adjustable spread pattern from 4 to 25 feet, with adjustable flow and side deflector. This commercial-grade and independently controlled hydraulic spreader is ideal for precisely broadcasting nearly any type of seed, fertilizer and even some infield surface conditioners. (Factory Installation Required)	150	\$1,599.00	\$1,599.00

<b>Subtotal</b>	<b>\$22,969.00</b>
Shipping Cost	\$1,067.86
Shipping Discounts (-)	(\$550.86)
Shipping Due	\$537.00
Tax Total (%)	\$0.00
<b>Total</b>	<b>\$23,506.00</b>
	Total Savings: \$550.86

**Shipping Method:**

Freight Carrier SAIA - Confirmation # BSOApYJu5y (Not A Tracking #)

**Freight Accessorials Ordered:**

- Residential with Notify - - Liftgate - - Limited Access -

**Notes:**

Customer Support: Phone Support 877-788-7253, Mon-Fri, 8am-5pm EST or [ABIsupport.com](http://ABIsupport.com) for product manuals, parts, and self-help



QO311691

COPY



#28

February 19, 2019

Mr. Ramiro Barrera  
207 E. Losoya Street  
Del Rio, TX 78840

RE: BIS Digital Technical Support Agreement Renewal

Annual Remote Support Agreement	
Effective Date	4/6/2019
Account Number	VAL600
Contract Number	20-04-A-70206-M-50010852
Contract Amount	\$850.00

Mr. Barrera,

Attached is your Remote Support Agreement and invoice.

To continue your technical support without disruption or unnecessary fees, please sign this electronic renewal form. Per our agreement, this invoice is due upon receipt.

Without a signed support agreement, you will be charged hourly for technical support in accordance with our on-demand technical support fees.

Thank you for the opportunity to serve your audio and video technology needs. If you have any questions, please do not hesitate to contact me at 800-834-7674, ext. 4523 or [dianne.corzo@bisdigital.com](mailto:dianne.corzo@bisdigital.com).

Best regards,

*Dianne Corzo*

Dianne Corzo  
Contracts Manager

COPY



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## Remote Support Agreement

*Between:*  
**BIS Digital, Inc.**  
 1350 NE 56<sup>th</sup> Street, Suite 300  
 Fort Lauderdale, FL 33334-6142  
 Phone: (800) 834-7674  
 Fax: (877) 858-5611  
 Email: support@bisdigital.com

*And:*  
**Val Verde County**  
 207 E. Losoya Street  
 Del Rio, TX 78840  
 Phone: (830) 774-7575  
 Contract #: 20-04-A-70206-M-50010852

BIS Digital, Inc. or its appointed service representative agrees to provide system support for the software and hardware listed below, in accordance with the terms and conditions of this agreement.

1. TERMS AND CONDITIONS

- A. The term of this agreement is for a period of twelve (12) months from the effective date. Upon expiration of the term, this agreement shall automatically renew for successive periods of twelve (12) months unless one party provides written notice to the other party of its intent to terminate this agreement in which case it shall terminate sixty (60) days from the date of the notice. In the event of early termination of service agreement, BIS Digital, Inc. will refund monies based upon contract amount prepaid by customer less actual cost of service provided during abbreviated term, or pro-rated amount based upon time remaining in contract term rounded to end of month of termination, whichever is less.
- B. The agreement entitles the user to 24 hours per day, 7 days per week telephone support.
- C. This support agreement is for the users integrated system. Any changes or enhancement will be billed for additionally.
- D. Charges for maintenance and support for reasons outside of BIS Digital control, arising from neglect, negligence, misuse, acts of god or modifications to, or failures of systems software and/or hardware not covered under this contract resulting in corruption of BIS Digital software setup/configuration shall be billed at BIS Digital published rates.
- E. BIS agrees to provide customer with no less than ninety 90 days notice in the event of any price increases.

2. COVERAGES

- A. DCR Software (all BIS Digital supplied licenses) will receive annual upgrades as they become available. BIS Digital will provide on-line user training as well as on-line diagnosis and repair (web connection required).
- B. Hardware & Hardware Accessories: Repair and/or replacements of defective hardware is not covered under this agreement. Customer may ship defective hardware to BIS Digital, Inc. for repair at BIS published service rates. If defective hardware sent to BIS Digital, Inc. is deemed un-repairable, customer will be responsible for replacement at their expense.
- C. On-site BIS Digital Technical Support: On-site Technical support is not covered under this agreement; however, BIS Digital can provide emergency on-site service at the BIS published on-site service & travel rates.

Initials:    
 BIS Digital Customer



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3. CUSTOMER RESPONSIBILITY
  - A. A proper backup of all data on a regular interval.
  - B. A user-appointed systems administrator to act as a liaison with the support department.
4. CONFIDENTIALITY
  - A. BIS Digital, Inc. agrees that all data that may be entered into the system is strictly confidential and shall remain the property of the user. BIS Digital shall not, without prior written consent, disclose to any third party any such data acquired in connection with this agreement or any other services.
5. PAYMENT
  - A. Invoices shall be sent once per year and payment shall be due in full upon receipt.
  - B. At BIS Digital option, support coverage may be halted for non-payment of any invoice greater than sixty (60) days beyond the due date.
6. LIABILITY
  - A. In no event shall BIS Digital, Inc. be liable for any direct or indirect losses or damages, or any other claims arising in connection with this agreement to the user, including loss of data or earnings due to equipment down time.
  - B. BIS Digital's sole responsibility with respect to the maintenance and support shall be limited to those outlined in this agreement.
  - C. The laws of the State of Florida shall govern this agreement and any litigation shall occur in Broward County, Florida.

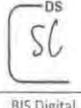
---

This contract covers the following equipment

Purchased on Invoice# 70206 PO# 45574 & 70143 PO# 45585  
Installed on:4/6/16  
Commissioners Court

- DCR2 (4 Channel) Digital Audio/Video Recording Software with Word Integration w/Software Assurance (1)
- DCR2 live broadcast (1)
- 2nd Video Channel for DCR Products (1)
- 3rd Video Channel for DCR Products (1)
- 4th Video Channel for DCR Products (1)

---

Initials:    
BIS Digital Customer



The terms and conditions stated herein form the complete agreement between the parties. Any additions to this agreement (new systems) will be prorated to coincide with this contract.

Effective Date: 4/6/2019  
Contract #: 120-04-A-70206-M-50010852  
Annual Contract Amount: \$850.00

Accepted By:

BIS Digital, Inc.

Val Verde County

DocuSigned by:  
Steve Coldren  
93D05F827436430  
By Steve Coldren

By Lewis J. Pugh

President  
Title

County Judge  
Title

February 19, 2019  
Date

3-6-19  
Date

Court Approved  
3.6.19

Initials: SC [Signature]  
BIS Digital Customer

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Beatriz I. Muñoz, PCC  
Assessor & Collector of Taxes  
Val Verde County  
P.O. Box 1368  
Del Rio, Texas 78841  
Telephone: 830-774-7530 Fax: 830-775-7282

02-28-19

To: Judge Lewis G. Owens Jr.

RE: Agenda items for Commissioner's Court meeting on March 6, 2019

Dear Judge,

I, Beatriz I. Munoz; Assessor Collector, am requesting from commissioner's court, an amendment to my 2018-2019 budget. I would like to transfer:

\$1,300 from Postage to Computer Maintenance

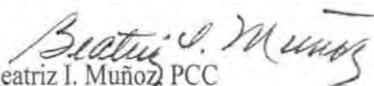
\$1,000 from Postage to Travel and Training

\$ 800 from Postage to Office Supplies

\$3,100

If you have any questions, please call me.

Respectfully,

  
Beatriz I. Muñoz, PCC  
Assessor-Collector

Copy:

- Commissioner Robert Nettleton
- Commissioner Martin Wardlaw
- Commissioner Gustavo Flores
- Commissioner Juan Vasquez



Harris Govern

760 North Watters Rd, Suite 100  
Allen, TX 75013  
Phone: 972-881-1858  
Fax: 972-722-0019

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## 2019 Summary Maintenance Statement

### Val Verde County Tax Office

Year	Software or Service	Amount
2019	PACS Collections	\$27,523.32
2019	Internet Property Search Hosting & Administration	\$0.00
2019	Internet Domain/Website Hosting & Administration	\$0.00
		<hr/>
		\$27,523.32

Maintenance rates are current as of April 2018.  
Any additions or removals may change these posted rates.  
If you have Marshall & Swift maintenance and/or Cloud Hosting maintenance, please be aware that these values are estimates.  
Billing for these services are based on actual parcels and billed in January of each year.

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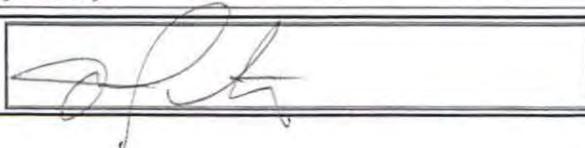
OMB Number: 4040-0004  
Expiration Date: 10/31/2019

Application for Federal Assistance SF-424	
<b>* 1. Type of Submission:</b> <input type="checkbox"/> Preapplication <input checked="" type="checkbox"/> Application <input type="checkbox"/> Changed/Corrected Application	
<b>* 2. Type of Application:</b> <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision	
<b>* If Revision, select appropriate letter(s):</b> _____ <b>* Other (Specify):</b> _____	
<b>* 3. Date Received:</b> _____	<b>4. Applicant Identifier:</b> _____
<b>5a. Federal Entity Identifier:</b> _____	<b>5b. Federal Award Identifier:</b> _____
<b>State Use Only:</b>	
<b>6. Date Received by State:</b> _____	<b>7. State Application Identifier:</b> _____
<b>8. APPLICANT INFORMATION:</b>	
<b>* a. Legal Name:</b> Val Verde County Sheriff's Office	
<b>* b. Employer/Taxpayer Identification Number (EIN/TIN):</b> 746000673	<b>* c. Organizational DUNS:</b> 6117541360000
<b>d. Address:</b>	
<b>* Street1:</b> P.O. Box 1201	_____
<b>Street2:</b>	_____
<b>* City:</b> Del Rio	_____
<b>County/Parish:</b>	_____
<b>* State:</b> TX: Texas	_____
<b>Province:</b>	_____
<b>* Country:</b> USA: UNITED STATES	_____
<b>* Zip / Postal Code:</b> 78841-1201	_____
<b>e. Organizational Unit:</b>	
<b>Department Name:</b> Val Verde County Sheriff's Off	<b>Division Name:</b> _____
<b>f. Name and contact information of person to be contacted on matters involving this application:</b>	
<b>Prefix:</b> _____	<b>* First Name:</b> Elizabeth
<b>Middle Name:</b> _____	_____
<b>* Last Name:</b> Soto	_____
<b>Suffix:</b> _____	_____
<b>Title:</b> Administrative Assistant	
<b>Organizational Affiliation:</b> _____	
<b>* Telephone Number:</b> 830/774-7621	<b>Fax Number:</b> 830/775-3845
<b>* Email:</b> esoto@valverdecountry.texas.gov	

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<b>Application for Federal Assistance SF-424</b>		
<b>* 9. Type of Applicant 1: Select Applicant Type:</b>		
<input type="text" value="B: County Government"/>		
Type of Applicant 2: Select Applicant Type:		
<input type="text"/>		
Type of Applicant 3: Select Applicant Type:		
<input type="text"/>		
* Other (specify):		
<input type="text"/>		
<b>* 10. Name of Federal Agency:</b>		
<input type="text" value="ONDCP"/>		
<b>11. Catalog of Federal Domestic Assistance Number:</b>		
<input type="text" value="95.001"/>		
CFDA Title:		
<input type="text"/>		
<b>* 12. Funding Opportunity Number:</b>		
<input type="text" value="HIDTA"/>		
* Title:		
<input type="text" value="HIDTA"/>		
<b>13. Competition Identification Number:</b>		
<input type="text"/>		
Title:		
<input type="text"/>		
<b>14. Areas Affected by Project (Cities, Counties, States, etc.):</b>		
<input type="text"/>	<input type="button" value="Add Attachment"/>	<input type="button" value="Delete Attachment"/>
	<input type="button" value="View Attachment"/>	
<b>* 15. Descriptive Title of Applicant's Project:</b>		
<input type="text" value="High Intensity Drug Trafficking Areas Programs"/>		
Attach supporting documents as specified in agency instructions.		
<input type="button" value="Add Attachments"/>	<input type="button" value="Delete Attachments"/>	<input type="button" value="View Attachments"/>

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<b>Application for Federal Assistance SF-424</b>	
<b>16. Congressional Districts Of:</b>	
* a. Applicant: <input type="text" value="23"/>	* b. Program/Project: <input type="text" value="TX465"/>
Attach an additional list of Program/Project Congressional Districts if needed.	
<input type="text"/>	<input type="button" value="Add Attachment"/> <input type="button" value="Delete Attachment"/> <input type="button" value="View Attachment"/>
<b>17. Proposed Project:</b>	
* a. Start Date: <input type="text" value="01/01/2019"/>	* b. End Date: <input type="text" value="12/31/2019"/>
<b>18. Estimated Funding (\$):</b>	
* a. Federal	<input type="text" value="259,872.00"/>
* b. Applicant	<input type="text"/>
* c. State	<input type="text"/>
* d. Local	<input type="text"/>
* e. Other	<input type="text"/>
* f. Program Income	<input type="text"/>
* g. TOTAL	<input type="text" value="259,872.00"/>
<b>* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?</b>	
<input type="checkbox"/> a. This application was made available to the State under the Executive Order 12372 Process for review on <input type="text"/> .	
<input type="checkbox"/> b. Program is subject to E.O. 12372 but has not been selected by the State for review.	
<input checked="" type="checkbox"/> c. Program is not covered by E.O. 12372.	
<b>* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)</b>	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If "Yes", provide explanation and attach	
<input type="text"/>	<input type="button" value="Add Attachment"/> <input type="button" value="Delete Attachment"/> <input type="button" value="View Attachment"/>
<p>21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)</p> <input checked="" type="checkbox"/> ** I AGREE	
** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.	
<b>Authorized Representative:</b>	
Prefix: <input type="text" value="Sheriff"/>	* First Name: <input type="text" value="Jose"/>
Middle Name: <input type="text" value="Francisco"/>	
* Last Name: <input type="text" value="Martinez"/>	
Suffix: <input type="text"/>	
* Title: <input type="text" value="Sheriff"/>	
* Telephone Number: <input type="text" value="830/774-7513"/>	Fax Number: <input type="text" value="830/775-3845"/>
* Email: <input type="text" value="jfmartinez@valverdecountry.texas.gov"/>	
* Signature of Authorized Representative: 	* Date Signed: <input type="text" value="3/11/19"/>

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OMB Number: 4040-0006  
Expiration Date: 01/31/2019

BUDGET INFORMATION - Non-Construction Programs

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. 95.001 High Intensity Drug Trafficking Area Program	95.001	\$	\$	\$ 259,872.00	\$	\$ 259,872.00
2.						
3.						
4.						
5. Totals		\$	\$	\$ 259,872.00	\$	\$ 259,872.00

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SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
	95.001 High Intensity Drug Trafficking Area Program				
a. Personnel	\$ 194,988.00	\$	\$	\$	\$ 194,988.00
b. Fringe Benefits	58,495.00				58,495.00
c. Travel	1,673.00				1,673.00
d. Equipment					
e. Supplies	1,350.00				1,350.00
f. Contractual	3,366.00				3,366.00
g. Construction					
h. Other					
i. Total Direct Charges (sum of 6a-6h)	259,872.00				\$ 259,872.00
j. Indirect Charges					\$
k. TOTALS (sum of 6i and 6j)	\$ 259,872.00	\$	\$	\$	\$ 259,872.00
7. Program Income	\$	\$	\$	\$	\$

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SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8. 95.001 High Intensity Drug Trafficking Area Program	\$	\$	\$	\$	\$
9.					
10.					
11.					
12. TOTAL (sum of lines 8-11)	\$	\$	\$	\$	\$
SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 259,872.00	\$ 64,968.00	\$ 64,968.00	\$ 64,968.00	\$ 64,968.00
14. Non-Federal	\$				
15. TOTAL (sum of lines 13 and 14)	\$ 259,872.00	\$ 64,968.00	\$ 64,968.00	\$ 64,968.00	\$ 64,968.00
SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program	FUTURE FUNDING PERIODS (YEARS)				
	(b) First	(c) Second	(d) Third	(e) Fourth	
16. 95.001 High Intensity Drug Trafficking Area Program	\$	\$	\$	\$	\$
17.					
18.					
19.					
20. TOTAL (sum of lines 16 - 19)	\$	\$	\$	\$	\$
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges:		22. Indirect Charges:			
23. Remarks:					

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OMB Number: 4040-0007  
Expiration Date: 01/31/2019

**ASSURANCES - NON-CONSTRUCTION PROGRAMS**

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

**NOTE:** Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

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9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.
19. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL 	TITLE Sheriff
APPLICANT ORGANIZATION Val Verde County Sheriff's Office	DATE SUBMITTED 3/11/19

Standard Form 424B (Rev. 7-97) Back

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**CERTIFICATION REGARDING LOBBYING**

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions. Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

* APPLICANT'S ORGANIZATION	
Val Verde County Sheriff's Office	
* PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE	
Prefix:	* First Name: Lewis Middle Name: G.
* Last Name: Owens	Suffix:
* Title: County Judge	
* SIGNATURE: 	* DATE: 3-11-19



#34

RESOLUTION TO ADOPT COUNTY INVESTMENT POLICY & FUND STRATEGIES, AND APPOINT  
COUNTY INVESTMENT COMMITTEE

STATE OF TEXAS §

COUNTY OF VAL VERDE §

VAL VERDE COUNTY RESOLUTION NO: \_\_\_\_\_

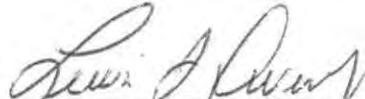
**WHEREAS**, the Texas Legislature set forth the Public Funds Investment Act in Government Code Section 2256, and

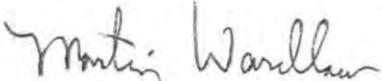
**WHEREAS**, the Val Verde County Investment Committee recommends aforementioned County Investment Policy for FY 18/19 be approved by resolution by the Commissioners Court of Val Verde County

**WHEREAS**, the Val Verde County Commissioners Court approve the appointment of Val Verde County Treasurer, Aaron D. Rodriguez as County Investment Officer(CIO), County Judge Lewis G. Owens, Jr., Commissioner Robert "Beau" Nettleton and Val Verde County Auditor, Matthew Weingardt, as County Investment Committee Members to comprise the County Investment Committee

**NOW, THEREFORE, BE IT RESOLVED BY THE COUNTY COMMISSIONERS COURT OF VAL VERDE COUNTY, TEXAS, IN A REGULAR MEETING DULY CONVENED AND ACTING IN ITS CAPACITY AS THE GOVERNING BODY OF VAL VERDE COUNTY, HEREBY AFFIRMS THE ATTACHED AMENDED 2019 VAL VERDE COUNTY INVESTMENT POLICY, SETTING FORTH ITS INVESTMENT STRATEGIES BY FUND TYPE AND DESIGNATING THE VAL VERDE COUNTY INVESTMENT COMMITTEE TO IMPLEMENT AND CARRY OUT THE STATE INVESTMENT POLICY**

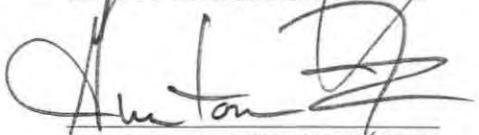
PASSED and APPROVED, this 6<sup>TH</sup> day of March, 2019

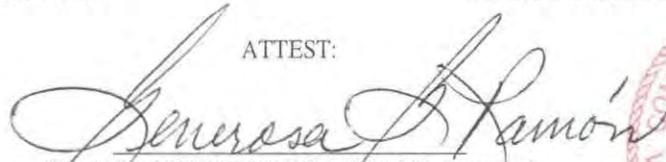
  
HONORABLE LEWIS G. OWENS, JR.  
COUNTY JUDGE

  
HONORABLE MARTIN WARDLAW  
COUNTY COMMISSIONER, PCT. 1

  
HONORABLE JUAN C. VAZQUEZ  
COUNTY COMMISSIONER, PCT. 2

  
HONORABLE ROBERT NETTLETON  
COUNTY COMMISSIONER, PCT. 3

  
HONORABLE GUSTAVO FLORES  
COUNTY COMMISSIONER, PCT. 4

ATTEST:  
  
HONORABLE GENEROSA GRACIA-RAMON  
COUNTY CLERK



# 34

## VAL VERDE COUNTY INVESTMENT POLICY

### General Statement

This policy serves to satisfy the statutory requirements of Local Government Code 116.112 and Government Code chapter 2256 to define and adopt a formal investment policy. This policy will be reviewed and adopted by resolution at least annually according to Government Code 2256.005(e).

### Funds Included

This investment policy applies to all financial assets of all funds of the County of Val Verde, Texas, at the present time and any funds to be created in the future and any other funds held in custody by the County Treasurer, unless expressly prohibited by law or unless it is in contravention of any depository contract between Val Verde County and depository bank.

### County's Investment Officer

In accordance with Sec. 116.112(a), Local Government Code and/or Government Code Sec. 2256.005(f) and (g), the County Investment Officer, under the direction of the Val Verde County Commissioners Court, may invest County funds that are not immediately required to pay obligations of the County. The commissioner court shall immediately require to pay obligations of the County. The commissioners court shall designate by resolution one or more officers or employees as investment officer.

If the investment officer has a personal business relationship (as defined in the Public Funds Investment Act) with an entity – or is related within the second degree by affinity or consanguinity to an individual-seeking to sell an investment to the county, the investment officer must file a statement disclosing that personal business interest-or relationship-with the Texas Ethics Commission and the Commissioners Court in accordance with Government Code 2256.005(i)

## I. INVESTMENT OBJECTIVES

### General Statement

Funds of the County will be invested in accordance with federal and state laws, this investment policy and written administrative procedures. The county will invest according to investment strategies for each fund as they are adopted by commissioner's court resolution in accordance with Sec. 2256.005(d).

### Safety and Maintenance of Adequate Liquidity

Val Verde County is concerned about the return of its principal; therefore, safety of principal is a primary objective in any investment transaction.

The County's investment portfolio must be structured in conformance with an asset/liability management plan which provides for liquidity necessary to pay obligations as they become due.

### Diversification

It will be the policy of Val Verde County to diversify its portfolio to manage the risk of loss resulting from over concentration of assets in a specific maturity, a specific issuer or a specific class of investments. Investments of the County shall always be selected that provide for stability of income and reasonable liquidity.

### **Yield**

It will be the objective of the County to earn the maximum rate of return allowed on its investments within the policies imposed by its safety and liquidity objectives, investment strategies for each fund, and state and federal law governing investment of public funds.

### **Maturity**

Portfolio maturities will be structured to meet the obligations of the County first and then to achieve the highest return of interest. When the County has funds that will not be needed to meet current-year obligations, maturity restraints will be imposed based upon the investment strategy for each fund. The maximum allowable stated maturity of any individual investment owned by the county is one year.

### **Quality and Capability of Investment Management**

It is the County's policy to provide training required by Government Code 2256.008 and periodic training in investments for the County Investment Officer through courses and seminars offered by professional organizations and associations in order to insure the quality, capability and currency of the County Investment Officer in making investment decisions.

## **II. INVESTMENT TYPES**

Due to the limited financial resources of Val Verde County, the only authorized investment tools will be PUBLIC FUNDS INVESTMENT ACT APPROVED POOLS and CD's.

In the event of a positive upswing in the county's financial position the Val Verde County Investment Officer may use and or all of the following authorized investment instruments consistent with governing law (Government Code 2256): and commissioners court approval.

- A. Except as provided by Government Code 2256.009(b), the following are authorized investments:
  - (1) Obligations of the United States or its agencies and instrumentalities;
  - (2) Direct obligations of this state or its agencies and instrumentalities;
  - (3) Other obligations, the principal and interest of which are unconditionally guaranteed or insured, by, or backed by the full faith and credit of this state or the United States or their respective agencies and instrumentalities.
  
- B. Certificates of deposit if issued by a state or national bank domiciled in this State or a savings and loan association domiciled in this state and is:
  - (1) Guaranteed or insured by the Federal Deposit Insurance Corporation or its successor or the National Credit Union Share Insurance Fund or its successor.
  
- C. A fully collateralized repurchase agreement, as defined in the Public Funds Investment Act, if it:
  - (1) Has a defined termination date;
  - (2) Is secured by obligations described by Section 256.009(a)(1) of the Public Funds Investment Act; and
  - (3) requires the securities being purchased by the county to be pledged to the county, held in the county's name, and deposited at the time the investment is made with the county or with a third party selected and approved by the county; and

- (4) is placed through a primary government securities dealer, as defined by the Federal Reserve, or a financial institution doing business in this state.
- (5) Notwithstanding any law, the term of any reverse security repurchase agreement may not exceed 90 days after the date the reverse security repurchase agreement is delivered. Money received by the county under the terms of a reverse security repurchase agreement shall be used to acquire additional authorized investments, but the term of the authorized investments acquire must mature not later than the expiration date stated in the reverse security repurchase agreement.

#### **Prohibited**

The Val Verde County Investment Officer has no authority to use any of the following investment instruments that are strictly prohibited;

- (1) Obligations whose payment represents the coupon payments on the outstanding principal balance of the underlying mortgage-backed security collateral and pays no principal;
- (2) Obligations whose payment represents the principal stream of cash flow from the underlying mortgage-backed security collateral and bears no interest;
- (3) Collateralized mortgage obligations that have a stated final maturity date of greater than 10 years; and
- (4) Collateralized mortgage obligations the interest rate of which is determined by an index that adjusts opposite to the changes in market index.

### **III. INVESTMENT RESPONSIBILITY AND CONTROL**

#### **Investment Institutions Defined**

The Val Verde County Investment Officer may invest County funds with any or all of the following institutions or groups consistent with federal and state law and the current Depository Bank contract:

- (1) Depository bank;
- (2) Other state or national banks domiciled in Texas that are insured by FDIC
- (3) Public funds investment pools or TEX POOL

#### **Audit Control**

The Val Verde County Investment Officer will establish liaison with the Val Verde County Auditor in preparing investment forms to assist the County Auditor for accounting and auditing control. The Investment Officer is subject to audit by the Val Verde County Auditor. In addition, the County Commissioners Court, at a minimum, will have an annual financial audit of all County funds by management controls on investments and adherence to the county's established investment policies in accordance with Government Code 2256.005(m).

#### **Standard of Care**

In accordance with Government Code 2256.006, investments shall be made with judgment and care, under prevailing circumstances, that a person of prudence, discretion, and intelligence would exercise in the management of the person's own affairs, not for speculation, but for investment, considering the probable safety of capital and probable income to be derived. Investment of funds shall be governed by the following investment objectives, in order of priority; preservation and safety of principal; liquidity; and yield

In determining whether an investment officer has exercised prudence with respect to an investment decision, the determination shall be made taking into consideration:

- (1) The investment of all funds, or funds under the county's control, over which the officer had responsibility rather than a consideration as to the prudence of a single investment; and
- (2) Whether the investment decision was consistent with the written investment policy of the county.

#### **IV. INVESTMENT REPORTING AND PERFORMANCE EVALUATION**

##### **Quarterly Report**

In accordance with Government Code 2256.023, not less than quarterly, the investment officer shall prepare and submit to the Commissioners Court a written report of investment transactions for all funds for the preceding reporting period within a reasonable time after the end of the period. An independent auditor, who will report findings to the Commissioner Court, shall formally review the report annually if the county invests in securities other than money market mutual funds, investment pools or accounts offered by the depository bank. The report must:

- (1) Describe in detail the investment position of the county on the date of the report;
- (2) Be prepared jointly by all investment officers of the county;
- (3) Be signed by each investment officer of the county;
- (4) Contain a summary statement of each pooled fund group that states the:
  - (a) Beginning market value for the reporting period;
  - (b) Fully accrued interest for the reporting period;
- (5) State the account or fund or pooled group fund in the county for which each individual investment was acquired.

##### **Notification of Investment Changes**

It shall be the duty of the County Investment Officer of Val Verde County, Texas to notify the Val Verde County Commissioners Court of any significant changes in current investment methods and procedures prior to their implementation.

#### **V. INVESTMENT COLLATERAL AND SAFEKEEPING**

##### **Collateral or Insurance**

The Val Verde County Investment Officer shall insure that all county funds are fully collateralized or insured consistent with federal and state law and the current Bank Depository Contract in one or more of the following manners:

- (1) FDIC insurance coverage;
- (2) Obligations of the United States or its agencies and instrumentalities

##### **Safekeeping**

All purchased securities shall be held in the safekeeping by the County, or a County account in a third party financial institution, or with the Federal Reserve Bank.

All certificated of deposit, insured by FCIC, purchased outside the Depository Bank shall be held in safekeeping by either the County or a County account in a third party financial institution.

All pledged securities by the Depository Bank shall be held in safekeeping by the County, or a County account in a third party financial institution, or with a Federal Reserve Bank.

#### **INVESTMENT COMMITTEE**

Val Verde County Treasurer, Aaron D. Rodriguez, CIO

Val Verde County Judge, Lewis, G. Owens, Jr., Investment Committee Member

Val Verde County Commissioner, Robert "Beau" Nettleton, Investment Committee Member

Val Verde County Auditor, Matthew Weingardt, Investment Committee Member



VAL VERDE COUNTY  
HUMAN RESOURCES DEPT

MEMORANDUM

#35

To: Lewis G. Owens Jr., County Judge  
From: Juanita Barrera, HR Director  
Date: February 28, 2019  
Subject: **AGENDA ITEMS FOR MARCH 2019**

Listed below are several personnel matters which need to be part of the upcoming March agenda for HR reporting period from February 20, 2019 through March 5, 2019.

- A. Juan C. Vazquez, Commissioner Pct. 2, requesting the issuance of checks to Rey Salgado, Light Equipment Operator, with a salary of \$24,207.23, effective February 19, 2019. Mr. Salgado is replacing Tiburcio Celedon who was terminated.
- B. Jerry Rust, Fire Chief, requesting to stop the issuance of checks to Miguel Mar, Fire Fighter, effective February 19, 2019. Mr. Mar has resigned.
- C. Joe Frank Martinez, Sheriff, requesting the issuance of checks to Christina Aguilar, Clerk, with a salary of \$22,072.05, effective March 4, 2019. Ms. Aguilar is replacing Rosalinda Zuniga who retired.
- D. Joe Frank Martinez, Sheriff, requesting the issuance of checks to Crystal Denney, Crime Victim Advocate, with a salary of \$27,409.99, effective March 4, 2019. Ms. Denney is replacing Deyanira Ortiz who resigned.
- E. Joe Frank Martinez, Sheriff, requesting the issuance of checks to Carla Valdez, Deputy Sheriff, with a salary of \$34,986.00, effective March 4, 2019. Ms. Valdez is replacing Brian Veliz who resigned.
- F. Joe Frank Martinez, Sheriff, requesting to stop the issuance of checks to Yolanda Trevino, Patrol Deputy, effective March 7, 2019. Ms. Trevino has resigned.
- G. Hilda Lopez, JP Pct. 4, requesting the issuance of checks to Debra Garcia, Deputy Clerk I, with a salary of \$22,072.05, effective March 4, 2019. Ms. Garcia is replacing Ruth Weeks who resigned.

#49



Val Verde County, TX

### Expense Approval Report By Segment (Select Below)

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
<b>Department: 1000 - 1000</b>					
Quill Corporation	5142246	02/15/2019	Co Atty - SWBI - Office	2666-1000-31-26085	459.99
Quill Corporation	5150909	02/15/2019	Co Atty - SWBI - Office	2666-1000-31-26085	13.58
Quill Corporation	5150909	02/15/2019	Co Atty - SWBI - Office	2666-1000-31-26085	18.99
Quill Corporation	5150909	02/15/2019	Co Atty - SWBI - Office	2666-1000-31-26085	25.48
Quill Corporation	5150909	02/15/2019	Co Atty - SWBI - Office	2666-1000-31-26085	26.26
Quill Corporation	5150909	02/15/2019	Co Atty - SWBI - Office	2666-1000-31-26085	32.10
Quill Corporation	5150909	02/15/2019	Co Atty - SWBI - Office	2666-1000-31-26085	43.32
Quill Corporation	5150909	02/15/2019	Co Atty - SWBI - Office	2666-1000-31-26085	159.99
Quill Corporation	5150909	02/15/2019	Co Atty - SWBI - Office	2666-1000-31-26085	191.22
Quill Corporation	5159258	02/18/2019	Co Atty - SWBI - Office	2666-1000-31-26085	79.69
<b>Department 1000 - 1000 Total:</b>					<b>1,050.62</b>
<b>Department: 1026 - .</b>					
KSA Engineers, Inc.	74506	02/25/2019	TCDBG #7218026 - Engineerin	2666-1026-34-26090	5,493.97
<b>Department 1026 - . Total:</b>					<b>5,493.97</b>
<b>Department: 1031 - .</b>					
Time Warner Cable	0067836021219	02/12/2019	HIDTA - Internet	2666-1031-33-26220	134.99
<b>Department 1031 - . Total:</b>					<b>134.99</b>
<b>Department: 1039 - T.C.D.B.G. #7216075</b>					
Esser & Company	01/31/2019-7216075	03/06/2019	TCDBG #7216075 - Administra	2666-1039-34-26460	5,000.00
<b>Department 1039 - T.C.D.B.G. #7216075 Total:</b>					<b>5,000.00</b>
<b>Department: 1057 - .</b>					
City Of Del Rio	255903	02/21/2019	TDHCA #7217013 - Pct 2 - Lan	2666-1057-35-26326	2.25
<b>Department 1057 - . Total:</b>					<b>2.25</b>
<b>Department: 1111 - General Fund</b>					
State Bar of Texas	SALES000000340850	01/24/2019	Law Lib - Books	1727-1111-00-16000	105.00
Thomson Reuter - West	839794972	02/04/2019	Law Lib - Subscription	1727-1111-00-16000	1,014.00
Thomson Reuter - West	6126649788	02/08/2019	Law Lib - Books	1727-1111-00-16000	231.00
Casares Sand Pit & Trucking In	2688	02/21/2019	TN - Pct 1 - Screened Red Clay	1178-1111-36-16008	864.00
Sentry Security Service	209383	03/01/2019	Sec Fund - Monitoring	1725-1111-00-16000	60.00
<b>Department 1111 - General Fund Total:</b>					<b>2,274.00</b>
<b>Department: 1200 - County Judge</b>					
CDW Government Inc.	QWX5094	01/31/2019	Co Judge - Monitor Arms	1111-1200-30-16420	9.14
CDW Government Inc.	QWX5094	01/31/2019	Co Judge - Monitor Arms	1111-1200-30-16420	347.59
Walmart	05550	02/06/2019	Co Judge - Water, Paper Plate	1111-1200-30-16000	4.53
Walmart	05550	02/06/2019	Co Judge - Water, Paper Plate	1111-1200-30-16000	9.87
Walmart	05550	02/06/2019	Co Judge - Water, Paper Plate	1111-1200-30-16000	11.94
Quill Corporation	4929941	02/07/2019	Co Judge - Office	1111-1200-30-16000	2.54
Quill Corporation	4929941	02/07/2019	Co Judge - Office	1111-1200-30-16000	11.46
Quill Corporation	4929941	02/07/2019	Co Judge - Office	1111-1200-30-16000	14.18
Lewis G. Owens	02/13/19	02/13/2019	Co Judge - Hotel	1111-1200-30-16200	370.24
Dixie Flag Company	0017101-IN	02/14/2019	Co Judge - Flag	1111-1200-30-16000	33.60
Dixie Flag Company	0017101-IN-1	02/14/2019	Co Judge - Shipping	1111-1200-30-16000	17.00
Quill Corporation	5127471	02/15/2019	Co Judge - Office	1111-1200-30-16000	17.42
Skyline Embroidery	6004	02/20/2019	Co Judge - Name Plates	1111-1200-30-16000	38.00
Skyline Embroidery	6004	02/20/2019	Co Judge - Name Plates	1111-1200-30-16000	38.00
Rowland Garza	03/12/19	03/12/2019	Co Judge - Meals	1111-1200-30-16420	64.00
Tom Garcia	03/13/19	03/12/2019	Co Judge - Meals	1111-1200-30-16200	64.00
<b>Department 1200 - County Judge Total:</b>					<b>1,053.51</b>
<b>Department: 1201 - County Clerk</b>					
Fedex	6-461-43892	02/21/2019	Co Clerk - Transport Charge	1111-1201-30-16000	14.89

**Expense Approval Report**

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Fedex	6-468-07170	02/21/2019	Co Clerk - Transport Charge	1111-1201-30-16000	10.65
<b>Department 1201 - County Clerk Total:</b>					<b>25.54</b>
<b>Department: 1203 - Veteran's Office</b>					
Quill Corporation	4895156	02/06/2019	Vet - Office	1111-1203-30-16000	40.49
Quill Corporation	4895156	02/06/2019	Vet - Office	1111-1203-30-16000	15.20
Quill Corporation	4895156	02/06/2019	Vet - Office	1111-1203-30-16000	19.62
Juan M. Vicuna	10004	02/08/2019	Cap Exp - Vet -Vehicle Wrap	1111-1203-40-16400	4,500.00
Quill Corporation	4747198	02/08/2019	Vet - Office	1111-1203-30-16000	19.97
Adrian Bitela	02/21/19	02/21/2019	Vet - Mileage	1111-1203-30-16200	11.02
Adrian Bitela	02/25/19	02/25/2019	Vet - Mileage	1111-1203-30-16200	11.02
Gloria Sanzone	02/27/2019	02/27/2019	Vet - Mileage	1111-1203-30-16200	81.66
Gloria Sanzone	03/06/19	03/06/2019	Vet - Meals	1111-1203-30-16200	28.00
Adrian Bitela	03/6/19	03/06/2019	Vet - Meals	1111-1203-30-16200	81.66
Adrian Bitela	03/6/19	03/06/2019	Vet - Meals	1111-1203-30-16200	28.00
Jazmin Garcia	03/6/19	03/06/2019	Vet - Meals	1111-1203-30-16200	28.00
<b>Department 1203 - Veteran's Office Total:</b>					<b>4,864.64</b>
<b>Department: 1204 - 63rd District Court</b>					
DS Waters of America Inc	11089708020819	01/28/2019	63rd - Water	1111-1204-31-16000	24.11
Card Service Center	0302-94	02/05/2019	63rd - Juror Meals	1111-1204-31-16460	25.68
Kyocera America Inc.	69343510	02/17/2019	63rd - Copier	1111-1204-31-16475	235.42
Quill Corporation	5219570	02/19/2019	63rd - Office	1111-1204-31-16000	23.79
Quill Corporation	5219570	02/19/2019	63rd - Office	1111-1204-31-16000	20.84
Quill Corporation	5219570	02/19/2019	63rd - Office	1111-1204-31-16000	9.34
Quill Corporation	5219570	02/19/2019	63rd - Office	1111-1204-31-16000	16.99
Quill Corporation	5219570	02/19/2019	63rd - Office	1111-1204-31-16000	8.98
<b>Department 1204 - 63rd District Court Total:</b>					<b>365.15</b>
<b>Department: 1205 - District Clerk</b>					
Xerox	095919241	02/01/2019	Dist Clerk - Billable Prints	1111-1205-31-16000	73.32
Xerox	095919241	02/01/2019	Dist Clerk - Copier	1111-1205-31-16415	224.66
DS Waters of America Inc	11089708020819-1	02/08/2019	Dist Clerk - Water	1111-1205-31-16000	38.12
Purchase Power	02/17/19	02/17/2019	Dist Clerk - Postage	1111-1205-31-16000	500.99
<b>Department 1205 - District Clerk Total:</b>					<b>837.09</b>
<b>Department: 1206 - JP#1</b>					
Card Service Center	1219-11	01/30/2019	JP 1 - Hotel	1111-1206-31-16200	198.39
Xerox	095919226	02/01/2019	JP 1 - Copier	1111-1206-31-16415	9.15
<b>Department 1206 - JP#1 Total:</b>					<b>207.54</b>
<b>Department: 1207 - JP#2</b>					
DS Waters of America Inc	11089708020819	01/28/2019	JP 2 - Water	1111-1207-31-16000	2.50
Card Service Center	0658-22	01/29/2019	JP 2 - Hotel	1111-1207-31-16200	28.35
Card Service Center	0658-22	01/29/2019	JP 2 - Parking	1111-1207-31-16200	15.00
Card Service Center	0658-22	01/29/2019	JP 2 - Hotel	1111-1207-31-16200	189.00
Antonio Faz III	01/31/19	02/05/2019	JP 2 - Magstration Mileage	1111-1207-31-16200	142.74
<b>Department 1207 - JP#2 Total:</b>					<b>377.59</b>
<b>Department: 1208 - JP#3</b>					
Quill Corporation	326024	08/21/2018	JP 3 - Credit Memo	1111-1208-31-16000	-31.03
Quill Corporation	4981014	02/11/2019	JP 3 - Office	1111-1208-31-16000	21.41
Quill Corporation	5004393	02/11/2019	JP 3 - Office	1111-1208-31-16000	2.80
Quill Corporation	5004393	02/11/2019	JP 3 - Office	1111-1208-31-16000	9.34
Quill Corporation	5004393	02/11/2019	JP 3 - Office	1111-1208-31-16000	9.34
Quill Corporation	5004393	02/11/2019	JP 3 - Office	1111-1208-31-16000	16.14
Quill Corporation	5004393	02/11/2019	JP 3 - Office	1111-1208-31-16000	148.74
Quill Corporation	5004393	02/11/2019	JP 3 - Office	1111-1208-31-16000	118.99
Quill Corporation	5004393	02/11/2019	JP 3 - Office	1111-1208-31-16000	118.99
Quill Corporation	5052350	02/13/2019	JP 3 - Office	1111-1208-31-16000	193.68
Quill Corporation	5090401	02/14/2019	JP 3 - Office	1111-1208-31-16000	23.40
American Association of Nota	02/20/19	02/20/2019	JP 3 - Notary	1111-1208-31-16000	96.90
Texas Justice Court Judges Ass	04/01/19	02/20/2019	JP 3 - Registration	1111-1208-31-16200	50.00
Texas Justice Court Judges Ass	04/01/19-1	02/20/2019	JP 3 - Registration	1111-1208-31-16200	50.00

Expense Approval Report

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Texas Justice Court Judges Ass	04/01/19-2	02/20/2019	JP 3 - Registration	1111-1208-31-16200	50.00
<b>Department 1208 - JP#3 Total:</b>					<b>878.70</b>
<b>Department: 1209 - JP#4</b>					
Hilda Lopez	01/31/19	01/31/2019	JP 4 - Magistrate Mileage	1111-1209-31-16200	47.44
Xerox	095919226	02/01/2019	JP 4 - Copier	1111-1209-31-16415	9.15
Quill Corporation	4762602	02/01/2019	JP 4 - Office	1111-1209-31-16000	178.48
Quill Corporation	4762602	02/01/2019	JP 4 - Office	1111-1209-31-16000	178.48
Quill Corporation	4769329	02/01/2019	JP 4 - Office	1111-1209-31-16000	16.84
Quill Corporation	4771662	02/01/2019	JP 4 - Office	1111-1209-31-16000	178.48
Quill Corporation	4774340	02/01/2019	JP 4 - Office	1111-1209-31-16000	4.61
Quill Corporation	4778053	02/01/2019	JP 4 - Office	1111-1209-31-16000	31.26
Quill Corporation	4778053	02/01/2019	JP 4 - Office	1111-1209-31-16000	18.18
Quill Corporation	4778053	02/01/2019	JP 4 - Office	1111-1209-31-16000	10.98
Quill Corporation	4778053	02/01/2019	JP 4 - Office	1111-1209-31-16000	7.89
Quill Corporation	4778053	02/01/2019	JP 4 - Office	1111-1209-31-16000	7.60
Quill Corporation	4778053	02/01/2019	JP 4 - Office	1111-1209-31-16000	1.09
Quill Corporation	4778053	02/01/2019	JP 4 - Office	1111-1209-31-16000	2.12
Quill Corporation	4778053	02/01/2019	JP 4 - Office	1111-1209-31-16000	4.33
Quill Corporation	4778053	02/01/2019	JP 4 - Office	1111-1209-31-16000	6.62
Quill Corporation	4778053	02/01/2019	JP 4 - Office	1111-1209-31-16000	5.50
Quill Corporation	4778053	02/01/2019	JP 4 - Office	1111-1209-31-16000	3.58
Quill Corporation	4812544	02/04/2019	JP 4 - Office	1111-1209-31-16000	229.48
Quill Corporation	4862437	02/06/2019	JP 4 - Office	1111-1209-31-16000	5.18
Quill Corporation	4862437	02/06/2019	JP 4 - Office	1111-1209-31-16000	4.33
<b>Department 1209 - JP#4 Total:</b>					<b>951.62</b>
<b>Department: 1210 - County Court at Law</b>					
DS Waters of America Inc	11089708020819	01/28/2019	CCL - Water	1111-1210-31-16000	2.50
Thomson Reuter - West	839823549	02/04/2019	CCL - Subscription Product Ch	1111-1210-31-16000	291.00
<b>Department 1210 - County Court at Law Total:</b>					<b>293.50</b>
<b>Department: 1211 - County Attorney</b>					
DS Waters of America Inc	11089708020819	01/28/2019	Co Atty - Water	1111-1211-31-16000	2.50
Thomson Reuter - West	839794973	02/04/2019	Co Atty - Books	1111-1211-31-16000	1,235.85
Anna R. Lafrenz	9039	02/14/2019	Co Atty - Transcript	1111-1211-31-16301	316.25
<b>Department 1211 - County Attorney Total:</b>					<b>1,554.60</b>
<b>Department: 1212 - County Auditor</b>					
CDW Government Inc.	QMH8635	12/26/2018	Auditor - Scanners	1111-1212-40-16400	2,646.00
DS Waters of America Inc	11089708020819	01/28/2019	Auditor - Water	1111-1212-30-16000	2.50
Amistad Heating & Air Cond.	7095	02/22/2019	Auditor - Storage	1111-1212-30-16000	80.00
<b>Department 1212 - County Auditor Total:</b>					<b>2,728.50</b>
<b>Department: 1213 - County Treasurer</b>					
DS Waters of America Inc	11089708020819	01/28/2019	Treas - Water	1111-1213-30-16000	7.00
Lone Star Copiers	130891	02/07/2019	Treas - Copier Yearly Mainten	1111-1213-30-16415	300.00
<b>Department 1213 - County Treasurer Total:</b>					<b>307.00</b>
<b>Department: 1214 - County Tax Collector</b>					
DS Waters of America Inc	11089708020819	01/28/2019	Tax - Water	1111-1214-30-16000	14.00
<b>Department 1214 - County Tax Collector Total:</b>					<b>14.00</b>
<b>Department: 1215 - IT Department</b>					
Southern Computer Warehou	IN-000557140	02/13/2019	IT - Ink Cartridges	1111-1215-30-16000	90.54
Southern Computer Warehou	IN-000557230	02/13/2019	IT - Magenta Toner	1111-1215-30-16000	104.84
John M. De La Garza	5439	02/21/2019	IT - Printhead Clip Assembly S	1111-1215-30-16000	15.00
John M. De La Garza	5439	02/21/2019	IT - Printhead Clip Assembly	1111-1215-30-16000	85.50
<b>Department 1215 - IT Department Total:</b>					<b>295.88</b>
<b>Department: 1216 - Purchasing Department</b>					
DS Waters of America Inc	11089708020819	01/28/2019	Purch - Water	1111-1216-30-16000	0.83
<b>Department 1216 - Purchasing Department Total:</b>					<b>0.83</b>
<b>Department: 1217 - County Agent</b>					
Card Service Center	2019-24	02/04/2019	Co Agent - Hotel	1111-1217-30-16202	167.24

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Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Baker Ranch Outdoor Power E	18658	02/06/2019	Co Agent - Mower Repairs	1111-1217-30-16205	191.38
DS Waters of America Inc	11089708020819-1	02/08/2019	Co Agent - Water	1111-1217-30-16000	4.99
Emily Grant	02/09/19	02/09/2019	Co Agent - Meals	1111-1217-30-16202	46.00
Emily Grant	02/11/19	02/11/2019	Co Agent - Meals	1111-1217-30-16202	36.00
Emily Grant	02/11/19	02/11/2019	Co Agent - Meals	1111-1217-30-16202	48.00
Emily Grant	02/11/19	02/11/2019	Co Agent - Meals	1111-1217-30-16202	72.00
Walmart	08847	02/27/2019	Co Agent - Office	1111-1217-30-16000	117.88
<b>Department 1217 - County Agent Total:</b>					<b>683.49</b>

**Department: 1218 - Library**

Baker & Taylor Books	5015128715	08/15/2018	Lib - Books	1111-1218-36-16680	15.34
Baker & Taylor Books	5015146388	08/28/2018	Lib - Books	1111-1218-36-16680	4.73
DS Waters of America Inc	11089708020819	01/28/2019	Lib - Water	1111-1218-36-16000	53.45
Ingram Library Services	38772299	02/08/2019	Lib - Books	1111-1218-36-16680	154.38
Ingram Library Services	38772300	02/08/2019	Lib - Books	1111-1218-36-16680	22.29
Ingram Library Services	38772301	02/08/2019	Lib - Books	1111-1218-36-16680	12.97
Ingram Library Services	38775769	02/08/2019	Lib - Books	1111-1218-36-16680	17.95
Quill Corporation	4943428	02/08/2019	Lib - Office	1111-1218-36-16000	37.38
Quill Corporation	4943428	02/08/2019	Lib - Office	1111-1218-36-16000	133.85
TFS Leasing	62477688	02/09/2019	Lib - Copier	1111-1218-36-16415	28.68
Weston Woods Studios Inc.	18745925	02/11/2019	Lib - Books	1111-1218-36-16680	223.18
Weston Woods Studios Inc.	18748386	02/11/2019	Lib - Books	1111-1218-36-16680	76.38
Baker & Taylor Books	H26979280	02/12/2019	Lib - Books	1111-1218-36-16680	21.38
Baker & Taylor Books	LS19020084	02/12/2019	Lib - Books	1111-1218-36-16680	105.00
The Penworthy Company	0549131-IN	02/15/2019	Lib - Books	1111-1218-36-16680	802.80
Ingram Library Services	38934955	02/20/2019	Lib - Books	1111-1218-36-16680	18.80
Baker & Taylor Books	H27725430	02/20/2019	Lib - Books	1111-1218-36-16680	78.34
Ingram Library Services	38961113	02/21/2019	Lib - Books	1111-1218-36-16680	189.78
Midamerica Books	475235	02/21/2019	Lib - Books	1111-1218-36-16680	909.60
Val Verde County	313	02/26/2019	Lib - Copy Paper	1111-1218-36-16000	314.90
Cybrarian Corporation	02-40981	02/27/2019	Lib - Subscription	1111-1218-36-16414	409.00
T-Shirts Etc.	2374	02/27/2019	Lib - Embroidering	1111-1218-36-16000	238.00
Movie Licensing USA	2631390	03/01/2019	Lib - Movie Lic	1111-1218-36-16680	346.00
<b>Department 1218 - Library Total:</b>					<b>4,214.18</b>

**Department: 1219 - Rural Fire & EMS**

Chief Supply	152735	01/28/2019	Fire - Uniforms	1111-1219-40-16400	179.99
Chief Supply	152735	01/28/2019	Fire - Uniforms	1111-1219-40-16400	179.99
Chief Supply	152735	01/28/2019	Fire - Uniforms	1111-1219-40-16400	69.99
Chief Supply	152735	01/28/2019	Fire - Uniforms	1111-1219-40-16400	539.97
Chief Supply	152735	01/28/2019	Fire - Uniforms	1111-1219-40-16400	179.99
Chief Supply	152735	01/28/2019	Fire - Uniforms	1111-1219-40-16400	69.99
Chief Supply	152735	01/28/2019	Fire - Uniforms	1111-1219-40-16400	161.94
Chief Supply	152735	01/28/2019	Fire - Uniforms	1111-1219-40-16400	380.00
Chief Supply	152735	01/28/2019	Fire - Uniforms	1111-1219-40-16400	139.98
Chief Supply	152735	01/28/2019	Fire - Uniforms	1111-1219-40-16400	139.98
Pro Auto Supply	424630	02/13/2019	Fire - Parts	1111-1219-33-16000	33.90
Pro Auto Supply	425528	02/20/2019	Fire - Parts	1111-1219-33-16000	71.59
Penguin Management Inc.	53432	02/21/2019	Fire - Audio Dispatch Services	1111-1219-33-16000	948.00
Penguin Management Inc.	53432	02/21/2019	Fire - Audio Dispatch Services	1111-1219-33-16000	199.00
Kimberly Dupill	3/29/19	03/15/2019	Fire - Meals	1111-1219-33-16200	92.00
<b>Department 1219 - Rural Fire &amp; EMS Total:</b>					<b>3,386.31</b>

**Department: 1220 - Parks & Building Maintenance**

Thyssenkrupp Elevator Corp.	6000339832	11/27/2018	BM - Repair Motor Starter Co	1111-1220-37-16520	489.00
Unifirst Corporation	8232688202	12/13/2018	Juvenile - Uniforms	1111-1220-37-16490	16.05
Unifirst Corporation	8232689135	12/20/2018	Juvenile - Uniforms	1111-1220-37-16490	16.05
Unifirst Corporation	8232690142	12/27/2018	Juvenile - Uniforms	1111-1220-37-16490	16.05
City Of Del Rio	51-000348-00-1/03/2019	01/03/2019	BM - Utilities	1111-1220-37-16503	11.56
City Of Del Rio	51-004810-00-1/03/2019	01/03/2019	BM - Utilities	1111-1220-37-16503	53.02
City Of Del Rio	51-033300-01-1/03/2019	01/03/2019	BM - Utilities	1111-1220-37-16503	142.95
Unifirst Corporation	8232691091	01/03/2019	Juvenile - Uniforms	1111-1220-37-16490	16.05

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Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
City Of Del Rio	40-004700-00-1/04/2019	01/04/2019	BM - Utilities	1111-1220-37-16503	157.74
Unifirst Corporation	8232692045	01/10/2019	Juvenile - Uniforms	1111-1220-37-16490	19.55
Unifirst Corporation	8232692981	01/17/2019	Juvenile - Uniforms	1111-1220-37-16490	16.05
Unifirst Corporation	8232693951	01/24/2019	Juvenile - Uniforms	1111-1220-37-16490	16.05
City Of Del Rio	55-118000-00-1/31/2019	01/31/2019	BM - Dumpsters	1111-1220-37-16503	107.61
City Of Del Rio	55-590000-00-1/31/2019	01/31/2019	BM - Dumpsters	1111-1220-37-16503	107.61
City Of Del Rio	55-618000-00-1/31/2019	01/31/2019	BM - Dumpsters	1111-1220-37-16503	107.61
City Of Del Rio	55-702000-00-1/31/2019	01/31/2019	BM - Dumpsters	1111-1220-37-16503	107.61
City Of Del Rio	55-754000-00-1/31/2019	01/31/2019	BM - Dumpsters	1111-1220-37-16503	107.61
City Of Del Rio	55-813000-00-1/31/2019	01/31/2019	BM - Dumpsters	1111-1220-37-16503	107.61
City Of Del Rio	55-814000-00-1/31/2019	01/31/2019	BM - Dumpsters	1111-1220-37-16503	207.91
City Of Del Rio	55-815000-00-1/31/19	01/31/2019	BM - Dumpsters	1111-1220-37-16503	207.91
City Of Del Rio	55-817000-00-1/31/2019	01/31/2019	BM - Dumpsters	1111-1220-37-16503	107.61
City Of Del Rio	55-825000-00-1/31/2019	01/31/2019	BM - Dumpsters	1111-1220-37-16503	149.69
Unifirst Corporation	8232694891	01/31/2019	Juvenile - Uniforms	1111-1220-37-16490	16.05
Unifirst Corporation	8232695839	02/07/2019	Juvenile - Uniforms	1111-1220-37-16490	16.05
AT&T Mobility	287248035160X02192019	02/11/2019	BM - Utilities	1111-1220-37-16503	3,596.42
Cavallo Energy Texas Llc	81902110078	02/11/2019	BM - Utilities	1111-1220-37-16503	22,587.25
McCoy's	8840829	02/13/2019	BM - Material	1111-1220-37-16490	47.26
McCoy's	8840830	02/13/2019	BM - Material	1111-1220-37-16490	4.74
Emilio Ruiz	134128	02/14/2019	BM - Tire Repair	1111-1220-37-16490	15.00
Unifirst Corporation	8232696784	02/14/2019	Lib - Uniforms	1111-1220-37-16490	43.35
Unifirst Corporation	8232696785	02/14/2019	Juvenile - Uniforms	1111-1220-37-16490	16.05
Unifirst Corporation	8232696786	02/14/2019	Crt Hse - Uniforms	1111-1220-37-16490	34.80
McCoy's	8840858	02/14/2019	BM - Material	1111-1220-37-16490	18.14
McCoy's	8840894	02/15/2019	BM - Material	1111-1220-37-16490	7.38
McCoy's	8840905	02/15/2019	BM - Material	1111-1220-37-16490	49.42
Jorge E. Huerta	160078	02/19/2019	BM - Shut Gates Welding	1111-1220-37-16311	250.00
Home Depot Dept 32-254092	3022850	02/19/2019	BM - Material	1111-1220-37-16490	165.92
Home Depot Dept 32-254092	3022851	02/19/2019	BM - Material	1111-1220-37-16490	90.47
Robles Plumbing	4265	02/19/2019	BM - Service Call	1111-1220-37-16490	142.50
Unifirst Corporation	8232697387	02/19/2019	BM - Uniforms	1111-1220-37-16490	111.24
Unifirst Corporation	8232697388	02/19/2019	Co Agent - Uniforms, Supplies	1111-1220-37-16490	19.95
McCoy's	8840950	02/19/2019	BM - Material	1111-1220-37-16490	7.56
McCoy's	8840951	02/19/2019	BM - Material	1111-1220-37-16490	12.13
Sherwin Williams	1253-6	02/20/2019	BM - Material	1111-1220-37-16490	26.98
Tractor Supply Co. Dept. 30-12	487070	02/20/2019	BM - Trufuel, Diesel Kleen	1111-1220-37-16340	62.91
Walmart	05224	02/21/2019	BM - Supplies	1111-1220-37-16490	68.28
Pico Propane Operating	06492294-I	02/21/2019	BM - Fuel	1111-1220-37-16201	435.00
Department of Information R	19011558N	02/21/2019	BM - Utilities	1111-1220-37-16503	129.10
Val Verde County	309	02/21/2019	BM - Paper Towels, Tissue Pap	1111-1220-37-16490	82.70
Val Verde County	309	02/21/2019	BM - Paper Towels, Tissue Pap	1111-1220-37-16490	71.08
T.J. Moore Lumber	443268	02/21/2019	BM - Material	1111-1220-37-16490	55.29
Russell True Value	446541	02/21/2019	BM - Drum Liner	1111-1220-37-16490	47.98
Unifirst Corporation	8232697723	02/21/2019	Lib - Uniforms, Supplies	1111-1220-37-16490	43.35
Unifirst Corporation	8232697724	02/21/2019	Juvenile - Uniforms	1111-1220-37-16490	16.05
Unifirst Corporation	8232697725	02/21/2019	Crt Hse - Uniforms	1111-1220-37-16490	34.80
Florentino Almeda	843135	02/21/2019	BM - Materials	1111-1220-37-16490	10.04
McCoy's	8841001	02/21/2019	BM - Material	1111-1220-37-16490	16.22
Frontier Southwest Informat	02/22/19	02/22/2019	BM - Utilities	1111-1220-37-16503	94.39
T.J. Moore Lumber	443336	02/22/2019	BM - Material	1111-1220-37-16490	92.33
T.J. Moore Lumber	443344	02/22/2019	BM - Material	1111-1220-37-16490	26.99
Russell True Value	446602	02/22/2019	BM - PVC Elbow, Coupling	1111-1220-37-16490	60.47
McCoy's	8841031	02/22/2019	BM - Material	1111-1220-37-16490	147.36
McCoy's	8841032	02/22/2019	BM - Material	1111-1220-37-16490	138.66
McCoy's	8841034	02/22/2019	BM - Credit Memo	1111-1220-37-16490	-135.75
Alvaro's Auto Sale	365028	02/25/2019	BM - Repairs	1111-1220-37-16490	94.90
Alvaro's Auto Sale	365028	02/25/2019	BM - Repairs	1111-1220-37-16490	362.00
Russell True Value	446664	02/25/2019	BM - Weed eaters	1111-1220-37-16520	639.98
Unifirst Corporation	8232698324	02/26/2019	Co Agent - Uniforms, Supplies	1111-1220-37-16490	19.95

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Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Sentry Security Service	209277	03/01/2019	BM - Monitoring	1111-1220-37-16480	70.00
Sentry Security Service	209532	03/01/2019	BM - Fire Monitoring	1111-1220-37-16480	40.00
Sentry Security Service	209532	03/01/2019	BM - Monitoring	1111-1220-37-16480	43.50
<b>Department 1220 - Parks &amp; Building Maintenance Total:</b>					<b>32,335.14</b>

**Department: 1221 - Sheriff**

DS Waters of America Inc	11089708020819	01/28/2019	Sheriff - Water	1111-1221-33-16600	36.12
Pico Propane Operating	06488674-I	02/08/2019	Sheriff - Fuel	1111-1221-33-17061	2,904.72
National Business Furniture	CV956614-TDQ	02/08/2019	Sheriff - Desks	1801-1221-00-16400	1,082.38
National Business Furniture	CV956614-TDQ	02/08/2019	Sheriff - Desks	1801-1221-00-16400	3,052.59
Correctional Risk Services	14349	02/12/2019	Sheriff - CRS Service	1111-1221-33-16630	13,834.04
Walmart	00286	02/13/2019	Sheriff - Supplies	1111-1221-33-16600	100.30
Thompson Tire Center	0024861	02/14/2019	Sheriff - Flat Tire Repair	1111-1221-33-17061	12.00
Goodyear Service Center	152562	02/14/2019	Sheriff - Tires	1111-1221-33-17061	59.80
Goodyear Service Center	152562	02/14/2019	Sheriff - Tires	1111-1221-33-17061	526.20
Goodyear Service Center	152562	02/14/2019	Sheriff - Tires	1111-1221-33-17061	16.00
Goodyear Service Center	152563	02/14/2019	Sheriff - Alignment	1111-1221-33-17061	94.95
Goodyear Service Center	152570	02/14/2019	Sheriff - Repairs	1111-1221-33-17061	94.95
Goodyear Service Center	152570	02/14/2019	Sheriff - Repairs	1111-1221-33-17061	526.20
Goodyear Service Center	152570	02/14/2019	Sheriff - Repairs	1111-1221-33-17061	16.00
Goodyear Service Center	152570	02/14/2019	Sheriff - Repairs	1111-1221-33-17061	59.80
USC Internal Merger Co LLC	199455-TMP	02/14/2019	Sheriff - Transport	1111-1221-33-17061	710.00
Claude A Pichard III	2552221-112549602	02/14/2019	Sheriff - Reg Garcia/Cervantes	1111-1221-33-16200	398.00
Bowlin's Ten Minute	4959	02/14/2019	Sheriff - State Inspection	1111-1221-33-17061	7.00
Government Forms and Suppl	0013706	02/15/2019	Sheriff - Bail Books	1111-1221-33-16600	820.00
Pico Propane Operating	06491202-I	02/15/2019	Sheriff - Fuel	1111-1221-33-17061	2,684.40
The Police and Sheriffs Press	117241	02/15/2019	Sheriff - ID Cards	1111-1221-33-16600	62.92
Brown Automotive Center	141226	02/15/2019	Sheriff - Auto Parts	1111-1221-33-17061	233.46
Brown Automotive Center	309162	02/18/2019	Sheriff - Fuel Pump Replacem	1111-1221-33-17061	433.67
Brown Automotive Center	309162	02/18/2019	Sheriff - Fuel Pump Replacem	1111-1221-33-17061	360.00
Brown Automotive Center	309162	02/18/2019	Sheriff - Fuel Pump Replacem	1111-1221-33-17061	84.15
Russell True Value	446464	02/19/2019	Sheriff - Batteries	1111-1221-33-16600	57.98
Flores Automotive	66101	02/19/2019	Sheriff - Tail Lamp	1111-1221-33-17061	55.00
Carlos D. Villarreal	0191	02/21/2019	Sheriff - Tire Repair	1111-1221-33-17061	10.00
Advanced Auto Parts	6666905279128	02/21/2019	Sheriff - Selector Cable	1111-1221-33-17061	40.46
Advanced Auto Parts	6666905279129	02/21/2019	Sheriff - Parts	1111-1221-33-17061	160.80
Advanced Auto Parts	6666905379156	02/22/2019	Sheriff - Battery	1111-1221-33-17061	39.68
Thompson Tire Center	0025073	02/25/2019	Sheriff - Tire Repair	1111-1221-33-17061	12.00
O'Reilly Auto Parts	0568-229462	02/25/2019	Sheriff - Actuator	1111-1221-33-17061	38.19
Walmart	07106	02/25/2019	Sheriff - Supplies	1111-1221-33-16600	56.98
Bowlin's Ten Minute	4967	02/25/2019	Sheriff - Oil Change	1111-1221-33-17061	88.95
Advanced Auto Parts	6666905679193	02/25/2019	Sheriff - Fuel Stabilizers	1111-1221-33-17061	26.58
<b>Department 1221 - Sheriff Total:</b>					<b>28,796.27</b>

**Department: 1223 - Other County Expenditures**

Webb County Treasury	M.E. 18-0968	12/24/2018	Ramirez	1111-1223-30-16760	1,700.00
Del Rio News Herald	520373-1	01/06/2019	Public Notice	1111-1223-30-16740	272.00
Del Rio News Herald	529392	01/13/2019	Public Notice	1111-1223-30-16740	238.00
Del Rio News Herald	529401	01/13/2019	Public Notice	1111-1223-30-16740	102.00
Del Rio News Herald	529401-1	01/16/2019	Public Notice	1111-1223-30-16740	102.00
Del Rio News Herald	529392-1	01/23/2019	Public Notice	1111-1223-30-16740	238.00
Del Rio News Herald	536497	01/27/2019	Public Notice	1111-1223-30-16740	272.00
Del Rio News Herald	536507	01/27/2019	Public Notice	1111-1223-30-16740	272.00
Texas Wildlife Damage	249740	01/31/2019	Trappers Salary	1111-1223-30-16770	2,083.33
Regional Public Defender	73	02/05/2019	FY 18/19 - Interlocal Allocatio	1111-1223-31-16780	20,085.00
Webb County Treasury	M.E. 19-00066	02/05/2019	Dugan	1111-1223-30-16760	1,700.00
Webb County Treasury	M.E. 19-0063	02/05/2019	Davila	1111-1223-30-16760	1,700.00
Cecilia A. Mascorro	18-135-CR-1	02/06/2019	Jorge Avila	1111-1223-31-16780	350.00
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	159.00
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	99.00
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	143.00
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	159.50

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Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	198.00
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	143.00
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	99.00
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	137.50
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	77.00
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	55.00
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	50.00
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	50.00
Anna R. Lafrenz	02/08/19	02/08/2019	CCL - Court Reporter	1111-1223-31-16780	88.00
Time Warner Cable	0155365021019	02/10/2019	Comm Cnt - Internet	1111-1223-30-16414	125.64
Time Warner Cable	0024975021219	02/12/2019	Pct 2 - Internet	1111-1223-30-16414	100.51
Time Warner Cable	0076514021219	02/12/2019	Crt Hse - Internet	1111-1223-30-16414	160.82
Law Offices of Ricardo E. Cald	14284CR	02/12/2019	Eliseo R Garcia	1111-1223-31-16780	650.00
Law Offices of Ricardo E. Cald	14296CR	02/12/2019	Eliseo R Garcia	1111-1223-31-16780	150.00
Law Offices of Ricardo E. Cald	14340CR	02/12/2019	Eliseo R Garcia	1111-1223-31-16780	150.00
Law Offices of Ricardo E. Cald	14406CR	02/12/2019	Jose L Gomez	1111-1223-31-16780	150.00
Law Offices of Ricardo E. Cald	14416CR	02/12/2019	Jose L Gomez	1111-1223-31-16780	500.00
Law Offices of Ricardo E. Cald	14419CR	02/12/2019	Eliseo R Garcia	1111-1223-31-16780	150.00
F. Gail Schroeter	12779CR	02/13/2019	Vanessa Salinas	1111-1223-31-16780	350.00
F. Gail Schroeter	12784CR	02/13/2019	Vanessa Salinas	1111-1223-31-16780	350.00
F. Gail Schroeter	14-319-CR	02/13/2019	Julio Sandoval	1111-1223-31-16780	500.00
Ruben Nino	14415-CR	02/13/2019	Jaime A Lozoya	1111-1223-31-16780	650.00
Andrea Casares	14418CR	02/13/2019	Luis A Castro	1111-1223-31-16780	500.00
Tom Green County	19P056	02/15/2019	Justin Wilson	1111-1223-35-16650	481.00
Jad P Harper	J-18-64	02/15/2019	Juvenile	1111-1223-31-16780	450.00
Sunset Memorial Oaks Funera	2019-047	02/18/2019	Felton	1111-1223-30-16760	500.00
Sunset Memorial Oaks Funera	2019-048	02/18/2019	Jimenez	1111-1223-30-16760	500.00
Quill Corporation	5158092	02/18/2019	Inv - Purch - Copy Paper	1111-1223-30-16510	1,259.60
David E. Martinez	3642CCL	02/19/2019	CPS	1111-1223-31-16780	2,020.00
F. Gail Schroeter	12783CR	02/20/2019	Vanessa Salinas	1111-1223-31-16780	350.00
Law Office of Priscilla Chacon	13938CR	02/20/2019	Nicolas Regalado	1111-1223-31-16780	650.00
Jad P Harper	17-325-CR	02/20/2019	Vikki Romero	1111-1223-31-16780	250.00
Jad P Harper	17-624-CR	02/20/2019	Vikki Romero	1111-1223-31-16780	250.00
Jeffrey S. Mahl	18-281-CR	02/20/2019	Joanna Thompson	1111-1223-31-16780	350.00
Jeffrey S. Mahl	18-379-CR	02/20/2019	Joanna Thompson	1111-1223-31-16780	250.00
Val Verde County Appraisal Di	2019-2	02/20/2019	2nd Qtr Allocation FY 18-19	1111-1223-30-16730	75,508.98
GCS Technologies Inc.	CW59413	02/20/2019	Comp Maint - OpenDNS Subs	1111-1223-30-16414	3,360.00
Bickerstaff Heath	108698	02/21/2019	Cont - Co Atty - Legal Fees	1111-1223-30-16820	2,730.00
Jad P Harper	14139-CR	02/21/2019	Juan A Hernandez Jr	1111-1223-31-16780	350.00
Law Office of Priscilla Chacon	13205CR	02/22/2019	James Castaneda	1111-1223-31-16780	350.00
Law Office of Priscilla Chacon	13804CR	02/22/2019	Wendy Ramirez	1111-1223-31-16780	350.00
Andrea Casares	13902CR	02/22/2019	Reyes A Sanchez	1111-1223-31-16780	350.00
Andrea Casares	14278CR	02/22/2019	Reyes A Sanchez	1111-1223-31-16780	650.00
Jeffrey S. Mahl	18-141-CR-1	02/22/2019	Michael Martinez	1111-1223-31-16780	350.00
David Clay Cowan	3619CCL-2	02/22/2019	CPS	1111-1223-31-16780	139.00
Esser & Company	02/25/2019	02/25/2019	Grant Administrator - TxDOT C	1111-1223-30-17240	1,496.64
Gregorio Flores	13-249-CR	02/27/2019	Jaime L Dominguez	1111-1223-31-16780	250.00
Guadalupe R. Rodriguez	17-439-CR	02/27/2019	Mario Martinez	1111-1223-31-16780	250.00
Guadalupe R. Rodriguez	18-220-CR	02/27/2019	Mark A Barragan	1111-1223-31-16780	350.00
Guadalupe R. Rodriguez	18-221-CR	02/27/2019	Mark A Barragan	1111-1223-31-16780	350.00
Guadalupe R. Rodriguez	18-266-CR	02/27/2019	Mark A Barragan	1111-1223-31-16780	350.00
Guadalupe R. Rodriguez	18-284-CR	02/27/2019	Eimy Rojas	1111-1223-31-16780	350.00
<b>Department 1223 - Other County Expenditures Total:</b>					<b>129,904.52</b>
<b>Department: 1224 - Road &amp; Bridge</b>					
Walmart	05440	02/22/2019	Comm Offc - Water	1222-1224-34-16000	23.88
Val Verde County	315	02/26/2019	Comm Offc - Copy Paper	1222-1224-34-16000	31.49
Val Verde County Payroll Clear	03/08/19-1	03/05/2019	Payroll Transfer	1222-1224-41-16005	50,361.01
<b>Department 1224 - Road &amp; Bridge Total:</b>					<b>50,416.38</b>
<b>Department: 1225 - Road &amp; Bridge Precinct 1</b>					
Ewald Kubota Inc.	3395297	02/08/2019	Pct 1 - Side Window	1222-1225-34-17000	283.07

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Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Tractor Supply Co.Dept. 30-12	274998	02/13/2019	Pct 1 - Smart Straw, Starting Fi	1222-1225-34-17000	64.88
South Texas County Judges & Unifirst Corporation	TCP-20-604	02/14/2019	Pct 1 - Registration	1222-1225-34-16200	250.00
Unifirst Corporation	8232697189	02/18/2019	Pct 1 - Uniforms	1222-1225-34-17000	37.20
FNL Money Investment LLC	87062	02/19/2019	Pct 1 - Tire Repair	1222-1225-34-17000	69.99
Pro Auto Supply	425425	02/20/2019	Pct 1 - Battery	1222-1225-34-17000	250.58
FNL Money Investment LLC	87072	02/20/2019	Pct 1 - Tire Repair	1222-1225-34-17000	17.50
Pro Auto Supply	425592	02/21/2019	Pct 1 - Battery, Battery Cable T	1222-1225-34-17000	134.68
Tractor Supply Co.Dept. 30-12	487138	02/21/2019	Pct 1 - Supplies	1222-1225-34-17000	38.93
O'Reilly Auto Parts	0568-229409	02/25/2019	Pct 1 - Parts	1222-1225-34-17000	156.12
T.J. Moore Lumber	443452	02/25/2019	Pct 1 - Material	1222-1225-34-17000	117.98
Unifirst Corporation	8232698137	02/25/2019	Pct 1 - Uniforms	1222-1225-34-17000	37.20
<b>Department 1225 - Road &amp; Bridge Precinct 1 Total:</b>					<b>1,458.13</b>
<b>Department: 1226 - Road &amp; Bridge Precinct 2</b>					
South Texas County Judges & Unifirst Corporation	TCP-20-605	02/14/2019	Pct 2 - Registration	1222-1226-34-16200	250.00
Unifirst Corporation	8232697190	02/18/2019	Pct 2 - Uniforms	1222-1226-34-17000	30.69
Candelario Montalvo	02/19/19	02/19/2019	Pct 2 - Meals	1222-1226-34-16200	28.00
Sunny Faz	02/19/19	02/19/2019	Pct 2 - Meals	1222-1226-34-16200	28.00
Pico Propane Operating	06491755-1	02/19/2019	Pct 2 - Propane	1222-1226-34-17000	45.00
Pro Auto Supply	425736	02/21/2019	Pct 2 - Parts	1222-1226-34-17000	65.61
Unifirst Corporation	8232698138	02/25/2019	Pct 2 - Uniforms	1222-1226-34-17000	30.69
<b>Department 1226 - Road &amp; Bridge Precinct 2 Total:</b>					<b>477.99</b>
<b>Department: 1227 - Road &amp; Bridge Precinct 3</b>					
City Of Del Rio	254903	02/07/2019	Pct 3 - Landfill	1222-1227-34-17000	34.20
Vulcan Materials Co.	61857931	02/11/2019	Pct 3 - LRA Premix TY D	1222-1227-34-17010	4,858.16
Holt Company of Texas	WIMS0181626	02/11/2019	Pct 3 - Unit 603 Repairs	1222-1227-34-17000	405.63
Carlos D. Villarreal	0145	02/12/2019	Pct 3 - Tire Repairs	1222-1227-34-17000	150.00
Unifirst Corporation	8232696445	02/12/2019	Pct 3 - Uniforms	1222-1227-34-17000	45.07
Del Rio Welders Equip.	D652205	02/12/2019	Pct 3 - Nonflammable Gas	1222-1227-34-17000	19.95
Walmart	02316	02/13/2019	Pct 3 - Supplies	1222-1227-34-17000	225.84
RC Ram Country	50154	02/13/2019	Pct 3 - Point Inspection Ram 2	1222-1227-34-17000	392.29
Alvaro's Auto Sale	365010	02/14/2019	Pct 3 - Steering Hydraulic Cyli	1222-1227-34-17000	892.00
South Texas County Judges & Carlos D. Villarreal	TCP-20-608	02/14/2019	Pct 3 - Registration	1222-1227-34-16200	250.00
Carlos D. Villarreal	4656	02/18/2019	Pct 3 - Flat Tire Repair	1222-1227-34-17000	10.00
Unifirst Corporation	8232697386	02/19/2019	Pct 3 - Uniforms, Supplies	1222-1227-34-17000	45.07
T.J. Moore Lumber	443125	02/20/2019	Pct 3 - Lever Flush Chrome	1222-1227-34-17000	4.15
<b>Department 1227 - Road &amp; Bridge Precinct 3 Total:</b>					<b>7,332.36</b>
<b>Department: 1228 - Road &amp; Bridge Precinct 4</b>					
Russell True Value	445821	02/01/2019	Pct 4 - Chainsaw	1222-1228-34-17000	349.99
Russell True Value	445822	02/01/2019	Pct 4 - Material	1222-1228-34-17000	140.95
Val Verde County	305	02/06/2019	Pct 4 - Paper Towels, Tissue Pa	1222-1228-34-17000	73.08
Val Verde County	305	02/06/2019	Pct 4 - Paper Towels, Tissue Pa	1222-1228-34-17000	82.70
Unifirst Corporation	8232695841	02/07/2019	Pct 4 - Uniforms	1222-1228-34-17000	45.00
Del Rio Welders Equip.	D651994	02/07/2019	Pct 4 - Chains, Ratchet Binder	1222-1228-34-17000	440.00
Home Depot Dept 32-254092	4011201	02/08/2019	Pct 4 - Flush Steel	1222-1228-34-17000	428.67
McCoy's	8840741	02/08/2019	Pct 4 - Material	1222-1228-34-17000	227.48
Tractor Supply Co.Dept. 30-12	274924	02/13/2019	Pct 4 - Worklight, Clamp Sets	1222-1228-34-17000	25.16
T.J. Moore Lumber	442658	02/13/2019	Pct 4 - Material	1222-1228-34-17000	45.30
Holt Company of Texas	PIMS0631898	02/14/2019	Pct 4 - Motorgrader Repairs	1222-1228-34-17000	145.58
Holt Company of Texas	PIMS0631898	02/14/2019	Pct 4 - Motorgrader Repairs	1222-1228-34-17000	176.90
Holt Company of Texas	PIMS0631898	02/14/2019	Pct 4 - Motorgrader Repairs	1222-1228-34-17000	197.54
Holt Company of Texas	PIMS0631898	02/14/2019	Pct 4 - Motorgrader Repairs	1222-1228-34-17000	197.84
Holt Company of Texas	PIMS0631898	02/14/2019	Pct 4 - Motorgrader Repairs	1222-1228-34-17000	242.36
Holt Company of Texas	PIMS0631898	02/14/2019	Pct 4 - Motorgrader Repairs	1222-1228-34-17000	271.95
Holt Company of Texas	PIMS0631898	02/14/2019	Pct 4 - Motorgrader Repairs	1222-1228-34-17000	549.50
Holt Company of Texas	PIMS0631898	02/14/2019	Pct 4 - Motorgrader Repairs	1222-1228-34-17000	74.45
Holt Company of Texas	PIMS0631898	02/14/2019	Pct 4 - Motorgrader Repairs	1222-1228-34-17000	89.30
Holt Company of Texas	PIMS0631898	02/14/2019	Pct 4 - Motorgrader Repairs	1222-1228-34-17000	57.25
Holt Company of Texas	PIMS0631898	02/14/2019	Pct 4 - Motorgrader Repairs	1222-1228-34-17000	98.83
South Texas County Judges &	TCP-20-609	02/14/2019	Pct 4 - Registration	1222-1228-34-16200	250.00

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Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Newman Traffic Signs	TRFINV009474	02/14/2019	Pct 4 - Signs/Emblems	1222-1228-34-17000	570.75
Newman Traffic Signs	TRFINV009474	02/14/2019	Pct 4 - Signs/Emblems	1222-1228-34-17000	233.66
W. W. Grainger, Inc	9089521489	02/15/2019	Pct 4 - Shovels, Rakes	1222-1228-34-17000	238.14
W. W. Grainger, Inc	9089521489	02/15/2019	Pct 4 - Shovels, Rakes	1222-1228-34-17000	187.76
W. W. Grainger, Inc	9089521489	02/15/2019	Pct 4 - Shovels, Rakes	1222-1228-34-17000	103.32
W. W. Grainger, Inc	9089521497	02/15/2019	Pct 4 - Rakes	1222-1228-34-17000	129.70
Vulcan Materials Co.	61862066	02/18/2019	Pct 4 - LRA Premix TY C	1222-1228-34-17010	9,884.82
Sears Commercial One	034069031649	02/19/2019	Pct 4 - Kenmore Freezer	1222-1228-34-17000	699.99
Pico Propane Operating	06491532-1	02/19/2019	Pct 4 - Fuel	1222-1228-34-17000	336.44
Pico Propane Operating	06491532-1	02/19/2019	Pct 4 - Fuel	1222-1228-34-17000	2,155.86
Ferguson Waterworks	1002964	02/19/2019	Pct 4 - Material	1222-1228-34-17000	136.00
Ferguson Waterworks	1002964	02/19/2019	Pct 4 - Material	1222-1228-34-17000	160.50
Ferguson Waterworks	1002964	02/19/2019	Pct 4 - Material	1222-1228-34-17000	353.16
Tractor Supply Co.Dept. 30-12	275940	02/19/2019	Pct 4 - Mouse Traps	1222-1228-34-17000	35.85
Pro Auto Supply	425306	02/19/2019	Pct 4 - Air Valve, Adapter, Trail	1222-1228-34-17000	33.12
Newman Traffic Signs	TRFINV009595	02/19/2019	Pct 4 - Signs	1222-1228-34-17000	273.95
Ferguson Waterworks	1002964-1	02/20/2019	Pct 4 - Material	1222-1228-34-17000	48.14
Russell True Value	446508	02/20/2019	Pct 4 - 2 Way Radios	1222-1228-34-17000	64.99
Unifirst Corporation	8232697726	02/21/2019	Pct 4 - Uniforms	1222-1228-34-17000	44.97
Pro Auto Supply	426031	02/25/2019	Pct 4 - Parts	1222-1228-34-17000	128.65
T.J. Moore Lumber	443500	02/25/2019	Pct 4 - Supplies	1222-1228-34-17000	274.42
Salvador Espinoza	02/26/19	02/26/2019	Pct 4 - Meals	1222-1228-34-16200	34.00
Roberto Vega	02/26/19	02/26/2019	Pct 4 - Meals	1222-1228-34-16200	34.00
Tractor Supply Co.Dept. 30-12	488068	02/26/2019	Pct 4 - Supplies	1222-1228-34-17000	16.95
Sandra A. Velez	03/05/19	03/04/2019	Pct 4 - Meals	1222-1228-34-16200	80.00
<b>Department 1228 - Road &amp; Bridge Precinct 4 Total:</b>					<b>20,468.97</b>
<b>Department: 1230 - 83rd District Court</b>					
DS Waters of America Inc	11089708020819	01/28/2019	83rd - Water	1111-1230-31-16000	29.12
Quill Corporation	4929971	02/07/2019	83rd - Office	1111-1230-31-16000	5.09
Quill Corporation	4929971	02/07/2019	83rd - Office	1111-1230-31-16000	26.99
Quill Corporation	4968883	02/08/2019	83rd - Office	1111-1230-31-16000	102.84
Quill Corporation	4968884	02/08/2019	83rd - Office	1111-1230-31-16000	205.68
Walmart	03288	02/12/2019	83rd - Drinks for Jury	1111-1230-31-16000	40.90
Quill Corporation	5017170	02/12/2019	83rd - Office	1111-1230-31-16000	23.08
US Postmaster	02/22/19	02/22/2019	83rd - PO Box Rental	1111-1230-31-16000	102.00
<b>Department 1230 - 83rd District Court Total:</b>					<b>535.70</b>
<b>Department: 1231 - Risk Management</b>					
DS Waters of America Inc	11089708020819	01/28/2019	RM - Water	1111-1231-30-16000	0.83
Quill Corporation	5115507	02/14/2019	RM - Office	1111-1231-30-16000	22.00
Pico Propane Operating	06491533-1	02/19/2019	RM - Fuel	1111-1231-30-17061	896.81
<b>Department 1231 - Risk Management Total:</b>					<b>919.64</b>
<b>Department: 1232 - General Fund Revenue</b>					
Linebarger Goggan Blair &	10/31/18-2	02/22/2019	JP 2 - Collection Fees	1111-1232-06-14110	888.57
Linebarger Goggan Blair &	11/30/18-2	02/25/2019	JP 2 - Collection Fees	1111-1232-06-14110	997.36
<b>Department 1232 - General Fund Revenue Total:</b>					<b>1,885.93</b>
<b>Department: 1247 - Community Center</b>					
DS Waters of America Inc	11089708020819	01/28/2019	Comm Cnt - Water	1111-1247-37-16000	19.99
Val Verde County	308	02/15/2019	Comm Cnt - Paper Towels, Tis	1111-1247-37-16000	82.70
Val Verde County	308	02/15/2019	Comm Cnt - Paper Towels, Tis	1111-1247-37-16000	73.00
Quill Corporation	5130315	02/15/2019	Comm Cnt - Open/Closed Sign	1111-1247-37-16000	41.28
Walmart	06163	02/21/2019	Comm Cnt - Supplies	1111-1247-37-16000	29.28
Walmart	06163	02/21/2019	Comm Cnt - Supplies	1111-1247-37-16000	4.47
Walmart	06163	02/21/2019	Comm Cnt - Supplies	1111-1247-37-16000	5.78
Walmart	06163	02/21/2019	Comm Cnt - Supplies	1111-1247-37-16000	19.92
Walmart	06163	02/21/2019	Comm Cnt - Supplies	1111-1247-37-16000	6.44
<b>Department 1247 - Community Center Total:</b>					<b>282.86</b>
<b>Department: 1248 - Human Resources</b>					
DS Waters of America Inc	11089708020819	01/28/2019	HR - Water	1111-1248-30-16000	0.84
Card Service Center	0147-195	01/30/2019	HR - Postage Stamps	1111-1248-30-16000	110.00

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Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Quill Corporation	4971138	02/08/2019	HR - File Cabinet	1111-1248-40-16400	269.00
Quill Corporation	4979087	02/11/2019	HR - Desk/Bookcase	1111-1248-40-16400	135.99
Quill Corporation	4979087	02/11/2019	HR - Desk/Bookcase	1111-1248-40-16400	405.00
4 Imprint	7058653	02/14/2019	HR - Office	1111-1248-30-16000	178.80
4 Imprint	7058653	02/14/2019	HR - Office	1111-1248-30-16210	147.50
4 Imprint	7058653	02/14/2019	HR - Office	1111-1248-30-16210	172.50
4 Imprint	7058653	02/14/2019	HR - Office	1111-1248-30-16210	172.50
Successories, Inc	IN-5686226	02/26/2019	HR - Office	1111-1248-30-16210	120.39
Successories, Inc	IN-5686226	02/26/2019	HR - Office	1111-1248-30-16210	39.99
Successories, Inc	IN-5686226	02/26/2019	HR - Office	1111-1248-30-16210	59.99
Successories, Inc	IN-5686226	02/26/2019	HR - Office	1111-1248-30-16210	99.99
Successories, Inc	IN-5686226	02/26/2019	HR - Office	1111-1248-30-16210	19.99
Successories, Inc	IN-5686226	02/26/2019	HR - Office	1111-1248-30-16210	99.99
<b>Department 1248 - Human Resources Total:</b>					<b>2,032.47</b>
<b>Department: 1250 - District Attorney</b>					
Quill Corporation	5216182	02/19/2019	DA - Office	1111-1250-31-16001	8.66
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	8.49
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	2.98
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	329.78
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	36.78
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	28.88
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	28.54
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	26.99
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	19.11
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	16.99
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	9.26
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	23.98
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	6.99
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	6.99
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	5.99
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	5.18
Quill Corporation	5219583	02/19/2019	DA - Office	1111-1250-31-16001	6.99
Quill Corporation	5248951	02/20/2019	DA - Office	1111-1250-31-16001	8.92
<b>Department 1250 - District Attorney Total:</b>					<b>581.50</b>
<b>Department: 1261 - Animal Control</b>					
Del Rio Feed & Supply	692264	02/22/2019	Animal Cont - Feed	1111-1261-30-16430	52.45
<b>Department 1261 - Animal Control Total:</b>					<b>52.45</b>
<b>Department: 1300 - Non-Departmental Expense</b>					
Texas Association Of Counties	232220/2330	01/01/2019	Co Judge - Membership Dues	1111-1300-30-16440	1,360.00
Zesch & Pickett Administrator	2019-1	02/12/2019	Administration Fees	1111-1300-30-16430	504.00
Texas Association of Counties	25511201903	02/20/2019	Insurance	1111-1300-30-17265	135,598.67
Val Verde County Payroll Clear	03/08/19	03/05/2019	Payroll Transfer	1111-1300-41-17510	391,941.47
<b>Department 1300 - Non-Departmental Expense Total:</b>					<b>529,404.14</b>
<b>Department: 1400 - Capital Expenditures</b>					
CDW Government Inc.	QM8635-1	12/26/2018	Auditor - Scanners	4121-1400-00-46005	1,135.04
Matthew S. Weingardt	02/26/2019	02/26/2019	Auditor - Meals/Mileage	4121-1400-00-46005	335.76
<b>Department 1400 - Capital Expenditures Total:</b>					<b>1,470.80</b>
<b>Department: 3900 - Court Costs</b>					
Emmanuel Perez	17-207-CR	12/31/2018	Co Clerk - Refund	3666-3900-00-16000	454.87
Del Rio News Herald	01/01/19	01/01/2019	Dist Clerk - Public Notice	3555-3900-00-16000	163.00
OmniBase Services of Texas, L	01/02/2019	01/02/2019	JP 1-4 - 4th Qtr Failure to App	3999-3900-00-16000	305.00
Del Rio News Herald	538405	01/30/2019	Dist Clerk - Public Notice	3555-3900-00-16000	142.50
Texas Parks and Wildlife	A8137431	02/20/2019	JP 1 - CIT18-0304	3999-3900-00-16000	85.00
Texas Parks and Wildlife	A8137433	02/20/2019	JP 1 - CIT18-0305	3999-3900-00-16000	127.50
Texas Parks and Wildlife	A8137434	02/20/2019	JP 1 - CIT18-0331	3999-3900-00-16000	76.50
Texas Parks and Wildlife	A8201953	02/25/2019	JP 1 - CIT18-0311	3999-3900-00-16000	127.50
Texas Parks and Wildlife	A8201954	02/25/2019	JP 1 - CIT18-0309	3999-3900-00-16000	93.50

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Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Texas Parks and Wildlife	A8201955	02/25/2019	JP 1 - CIT18-0310	3999-3900-00-16000	127.50
<b>Department 3900 - Court Costs Total:</b>					<b>1,703.87</b>
<b>Department: 4444 - 4444</b>					
Washington National Ins Co	P1882106	02/02/2019	Insurance	1444-4444-31-12070	5,064.71
Texas County & District Retire	INV0004128	02/08/2019	Retirement (County)	1444-4444-30-12130	70,335.91
Eyetopia PPA LLC	50581382	02/11/2019	Insurance	1444-4444-31-12070	2,188.86
Texas Association of Counties	25511201903-1	02/20/2019	Insurance	1444-4444-31-12070	16,454.48
Texas County & District Retire	INV0004169	02/22/2019	Retirement (County)	1444-4444-30-12130	70,180.19
National Family Care Life Ins.	03/01/2019	03/01/2019	Insurance	1444-4444-31-12070	106.00
<b>Department 4444 - 4444 Total:</b>					<b>164,330.15</b>
<b>Grand Total:</b>					<b>1,011,384.77</b>

## Fund Summary

Fund	Expense Amount
1111 - General Fund	745,635.32
1178 - Tax Note 2016	864.00
1222 - Balance Road & Bridge	80,153.83
1444 - Payroll Clearing County	164,330.15
1725 - Court House Security Fund	60.00
1727 - Law Library	1,350.00
1801 - Settlement Fund - Sheriff	4,134.97
2666 - Grants	11,681.83
3555 - District Clerk Court Costs	305.50
3666 - County Clerk Court Costs	454.87
3999 - JP 1-4 Court Costs	943.50
4121 - Val Verde County Auditors Special Account	1,470.80
<b>Grand Total:</b>	<b>1,011,384.77</b>

## Account Summary

Account Number	Account Name	Expense Amount
1111-1200-30-16000	County Judge - Office Su	198.54
1111-1200-30-16200	County Judge - Travel an	434.24
1111-1200-30-16420	County Judge - Emergen	420.73
1111-1201-30-16000	County Clerk - Office Sup	25.54
1111-1203-30-16000	Veteran's Office - Office	95.28
1111-1203-30-16200	Veteran's Office - Travel	269.36
1111-1203-40-16400	Veteran's Office - Capital	4,500.00
1111-1204-31-16000	63rd District Court - Offi	104.05
1111-1204-31-16460	63rd District Court - Juro	25.68
1111-1204-31-16475	63rd District Court - Copi	235.42
1111-1205-31-16000	District Clerk - Office Sup	612.43
1111-1205-31-16415	District Clerk - Copier Ex	224.66
1111-1206-31-16200	Justice of the Peace #1 -	198.39
1111-1206-31-16415	Justice of the Peace #1 -	9.15
1111-1207-31-16000	Justice of the Peace #2 -	2.50
1111-1207-31-16200	Justice of the Peace #2 -	375.09
1111-1208-31-16000	Justice of the Peace #3 -	728.70
1111-1208-31-16200	Justice of the Peace #3 -	150.00
1111-1209-31-16000	Justice of the Peace #4 -	895.03
1111-1209-31-16200	Justice of the Peace #4 -	47.44
1111-1209-31-16415	Justice of the Peace #4 -	9.15
1111-1210-31-16000	Court At Law - Office Su	293.50
1111-1211-31-16000	County Attorney - Office	1,238.35
1111-1211-31-16301	County Attorney - Civil Li	316.25
1111-1212-30-16000	County Auditor - Office S	82.50
1111-1212-40-16400	County Auditor - Capital	2,646.00
1111-1213-30-16000	County Treasurer - Offic	7.00
1111-1213-30-16415	County Treasurer - Copie	300.00
1111-1214-30-16000	Tax Assessor Collector -	14.00
1111-1215-30-16000	IT Department - Office S	295.88
1111-1216-30-16000	Purchasing Department	0.83
1111-1217-30-16000	County Agent - Office Su	122.87
1111-1217-30-16202	County Agent - Travel - G	369.24
1111-1217-30-16205	County Agent - Equipme	191.38
1111-1218-36-16000	County Library - Office S	777.58
1111-1218-36-16414	County Library - Comput	409.00
1111-1218-36-16415	County Library - Copier E	28.68
1111-1218-36-16680	County Library - Books	2,998.92
1111-1219-33-16000	Rural Fire & EMS - Office	1,252.49
1111-1219-33-16200	Rural Fire & EMS - Travel	92.00
1111-1219-40-16400	Rural Fire & EMS - Capit	2,041.82

Expense Approval Report

Account Summary

Account Number	Account Name	Expense Amount
1111-1220-37-16201	Parks and Building Maint	435.00
1111-1220-37-16311	Parks and Building Maint	250.00
1111-1220-37-16340	Parks and Building Maint	62.91
1111-1220-37-16480	Parks and Building Maint	153.50
1111-1220-37-16490	Parks and Building Maint	2,213.54
1111-1220-37-16503	Parks and Building Maint	28,091.21
1111-1220-37-16520	Parks and Building Maint	1,128.98
1111-1221-33-16200	Sheriff's Department - Tr	398.00
1111-1221-33-16600	Sheriff's Department - O	1,134.30
1111-1221-33-16630	Sheriff's Department - D	13,834.04
1111-1221-33-17061	Sheriff's Department - A	9,294.96
1111-1223-30-16414	Other - Computer Maint	3,746.97
1111-1223-30-16510	Other - Inventory	1,259.60
1111-1223-30-16730	Other - Appraisal Offices	75,508.98
1111-1223-30-16740	Other - Advertising	1,496.00
1111-1223-30-16760	Other - Autopsy and Me	6,100.00
1111-1223-30-16770	Other - Trappers Salary	2,083.33
1111-1223-30-16820	Other - Contingencies	2,730.00
1111-1223-30-17240	Grant Administrator	1,496.64
1111-1223-31-16780	Other - Attorney's Other	35,002.00
1111-1223-35-16650	Other - Hosptial	481.00
1111-1230-31-16000	83rd District Court - Offi	535.70
1111-1231-30-16000	Risk Management - Offic	22.83
1111-1231-30-17061	Risk Management - Auto	896.81
1111-1232-06-14110	Justice of the Peace #2	1,885.93
1111-1247-37-16000	Community Center - Offi	282.86
1111-1248-30-16000	Human Resources - Offic	289.64
1111-1248-30-16210	Staff Development/Pro	932.84
1111-1248-40-16400	Human Resources - Capi	809.99
1111-1250-31-16001	District Attorney - Office	581.50
1111-1261-30-16430	Animal Control - Feed	52.45
1111-1300-30-16430	Non-Departmental - Caf	504.00
1111-1300-30-16440	Non-Departmental - Me	1,360.00
1111-1300-30-17265	Non-Departmental - Ins	135,598.67
1111-1300-41-17510	Transfers to Payroll Clear	391,941.47
1178-1111-36-16008	Tax Note 2016 Parks	864.00
1222-1224-34-16000	Road and Bridge Office S	55.37
1222-1224-41-16005	Transfer for Payroll	50,361.01
1222-1225-34-16200	Road and Bridge Pct. #1	250.00
1222-1225-34-17000	Road and Bridge Pct. #1	1,208.13
1222-1226-34-16200	Road and Bridge Pct. #2	306.00
1222-1226-34-17000	Road and Bridge Pct. #2	171.99
1222-1227-34-16200	Road and Bridge Pct. #3	250.00
1222-1227-34-17000	Road and Bridge Pct. #3	2,224.20
1222-1227-34-17010	Road and Bridge Pct. #3	4,858.16
1222-1228-34-16200	Road and Bridge Pct. #4	398.00
1222-1228-34-17000	Road and Bridge Pct. #4	10,186.15
1222-1228-34-17010	Road and Bridge Pct. #4	9,884.82
1444-4444-30-12130	A/P Retirement	140,516.10
1444-4444-31-12070	A/P Insurance	23,814.05
1725-1111-00-16000	Court House Security Fu	60.00
1727-1111-00-16000	Law Library - Expenses	1,350.00
1801-1221-00-16400	Settlement Fund - Capita	4,134.97
2666-1000-31-26085	Southwest Border Initia	1,050.62
2666-1026-34-26090	TCD8G #7218026 Water	5,493.97
2666-1031-33-26220	Amistad Intell 2018 - Ser	134.99
2666-1039-34-26460	T.C.D.B.G #7216075 Adm	5,000.00
2666-1057-35-26326	TX Dept Housing PCT #2	2.25

Expense Approval Report

Account Summary

Account Number	Account Name	Expense Amount
3555-3900-00-16000	District Clerk Court Costs	305.50
3666-3900-00-16000	County Clerk Court Costs	454.87
3999-3900-00-16000	JP #1-4 Court Costs - Ex	943.50
4121-1400-00-46005	County Auditor Acct Exp	<u>1,470.80</u>
	Grand Total:	<u>1,011,384.77</u>

Project Account Summary

Project Account Key	Expense Amount
**None**	<u>1,011,384.77</u>
Grand Total:	<u>1,011,384.77</u>