



INVITATION FOR BIDS
TEXAS DEPARTMENT OF CRIMINAL JUSTICE
CONTRACTS AND PROCUREMENT

IF NOT BIDDING
DO NOT RETURN THIS FORM.

AGENCY TO INVOICE

TEXAS DEPARTMENT OF CRIMINAL JUSTICE
ACCOUNTS PAYABLE
P.O. BOX 4018
HUNTSVILLE, TX 77342-4018

DESTINATION OF GOODS IF DIFFERENT THAN ABOVE

SEE BELOW

DELIVERY IN ____ DAYS, CASH DISCOUNT ____ % ____ DAYS OR NET 30
Check below if preference claimed under 34 TAC Rule 20.306

- Goods produced or offered by a Texas bidder that is owned by a Texas resident service-disabled veteran
- Goods produced in Texas or offered by a Texas bidder that is not owned by a Texas resident service-disabled veteran
- Agriculture products produced or grown in TX
- Agriculture products and services offered by TX bidders
- Services offered by a Texas bidder that is owned by a Texas resident service-disabled veteran
- Services offered by a Texas bidder that is not owned by a Texas resident service-disabled veteran
- Texas vegetation native to the region
- USA produced supplies, materials, equipment or agricultural products
- Products of persons with mental or physical disabilities
- Products made of recycled, remanufactured, or environmentally sensitive materials including recycled steel
- Energy efficient products
- Rubberized asphalt paving material
- Recycled motor oil and lubricants
- Products produced at facilities located on formerly contaminated property
- Products and services from economically depressed or blighted areas
- Vendors that meet or exceed air quality standards
- Recycled or reused computer equipment of other manufacturers
- Foods of higher nutritional value (for consumption in a public cafeteria only)
- Commercial production company or advertising agency located in Texas

QUOTE F.O.B. DESTINATION PREPAID AND ALLOWED

THE TEXAS DEPARTMENT OF CRIMINAL JUSTICE (TDCJ) IS CURRENTLY SEEKING BIDS TO ESTABLISH A PURCHASE ORDER FOR THE PROCUREMENT OF THREE (3) AIR HANDLING UNITS TO INCLUDE REMOVAL, INSTALLATION, START UP AND TRAINING.

CONTINUED ON NEXT PAGE

ISSUE DATE: **JANUARY 08, 2018**
 BID NO. **IT900086**
 BID OPENING **3 P.M.** **FEBRUARY 02, 2018**
 PURCHASER: **PRICE, NATALIE**
 PHONE: **936-437-7066**
FAXED BIDS WILL NOT BE ACCEPTED UNLESS NOTED BELOW

▼ FAILURE TO SIGN WILL DISQUALIFY BID ▼

AUTHORIZED SIGNATURE

DATE

TYPED NAME OF SIGNER

IF BIDDING, RETURN SEALED BIDS TO:
 TEXAS DEPARTMENT OF CRIMINAL JUSTICE
 CONTRACTS AND PROCUREMENT DEPARTMENT
 TWO FINANCIAL PLAZA, STE. 525
 HUNTSVILLE, TEXAS 77340

▼ VENDOR ADDRESS AND IDENTIFICATION NUMBER ▼

VENDOR ID NUMBER

See Bid Requirement 1.7 for Vendor ID Number instructions

- ❖ By signing this bid, bidder certifies that if a Texas address is shown as the address of the bidder, bidder qualifies as a Texas Bidder as defined in Section 2155.444(c) of the Texas Government Code.
- ❖ Bidder agrees to comply with all terms and conditions below and on attached pages

TEXAS DEPARTMENT OF CRIMINAL JUSTICE
CONTRACTS AND PROCUREMENT DEPARTMENT
TWO FINANCIAL PLAZA, STE. 525
HUNTSVILLE, TX 77340

Continuation Page 2 of 10

Bid Opening Date: 3 P.M.

FEBRUARY 02, 2018

Bid Number: IT900086

Name of Bidder: _____

BIDDER MUST FILL IN →

NOTICE: THE SOLICITATION OF THE FOLLOWING GOODS AND/OR SERVICES IS UNDER THE AUTHORITY OF THE TEXAS GOVERNMENT CODE 2166.003(B), CONSTRUCTION PROJECTS UNDERTAKEN BY THE TEXAS DEPARTMENT OF CRIMINAL JUSTICE.

ALL COMMUNICATIONS AND QUESTIONS CONCERNING THIS SOLICITATION, INCLUDING ANY OF A TECHNICAL NATURE, SHALL BE MADE IN WRITING TO PURCHASER REFERENCED ON THIS SOLICITATION. BIDDERS ARE SPECIFICALLY BARRED FROM MAKING CONTACT WITH ANY USER DEPARTMENT PERSONNEL INVOLVED IN THIS SOLICITATION FOR THE PURPOSE OF DISCUSSING THIS SOLICITATION. VIOLATION MAY RESULT IN BIDDER DISQUALIFICATION.

IN ACCORDANCE WITH TEXAS GOVERNMENT CODE 2161.252, THE TDCJ HAS DETERMINED THAT SUBCONTRACTING OPPORTUNITIES ARE AVAILABLE FOR THIS SOLICITATION. RESPONDENTS, THEREFORE, INCLUDING STATE OF TEXAS CERTIFIED HISTORICALLY UNDERUTILIZED BUSINESSES (HUB) MUST COMPLETE AND SUBMIT A STATE OF TEXAS HUB SUBCONTRACTING PLAN (HSP) WITH THEIR SOLICITATION RESPONSE. BID RESPONSES WILL BE DISQUALIFIED IF THE HSP IS INCOMPLETE OR NOT RECEIVED BY THE CLOSING DATE AND TIME OF THE SOLICITATION.

BIDS MUST INCLUDE COMPLETED HSP FORMS OR BIDS SHALL BE DISQUALIFIED. IT IS STRONGLY SUGGESTED THAT BIDDERS CONTACT SHARON SCHULTZ AT 936-437-7026 OR CYNTHIA GUAJARDO AT 936-437-7061 FOR ASSISTANCE IN COMPLETING THESE FORMS.

BOND REQUIREMENTS:

1. THE BIDDER SHALL PROVIDE TO THE OWNER, AT ITS OWN EXPENSE, WITHIN T (10) WORKING DAYS OF NOTIFICATION OF INTENT TO AWARD BY THE TDCJ PURCHASER, IN ACCORDANCE WITH THE PROVISIONS OF GOVERNMENT CODE TITLE 10, SECTION 2253.021 THE REQUIRED BONDS AS STIPULATED:
 - A. PAYMENT BOND IN THE AMOUNT OF THE BID ON ALL BIDS OVER \$25,000.00 FOR THE SOLE PROTECTION OF THOSE SUPPLYING LABOR, MATERIALS, AND/OR EQUIPMENT. SUBCONTRACTORS ARE NOT REQUIRED BY THE OWNER TO EXECUTE A PAYMENT BOND.
 2. FAILURE OF BIDDER TO PROVIDE REQUIRED BOND WITHIN THE TIME FRAME STIPULATED ABOVE MAY RESULT IN DISQUALIFICATION OF BID.
 3. BOND SHALL REMAIN IN EFFECT AND IN FULL FORCE PER APPLICABLE LAW AND UNTIL DOCUMENTED ACCEPTANCE BY THE OWNER OF WORK PERFORMED.
4. BOND PROVIDED SHALL MEET THE CRITERIA ESTABLISHED IN TEXAS GOVERNMENT CODE TITLE 10, SECTION 2253.021.

THERE WILL BE ONE (1) SITE VISIT OFFERED FOR THIS INVITATION FOR BIDS (IFB):

LOCATION: TDCJ HUTCHINS UNIT MAINTENANCE
1500 EAST LANGDON ROAD

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**TEXAS DEPARTMENT OF CRIMINAL JUSTICE
CONTRACTS AND PROCUREMENT DEPARTMENT
TWO FINANCIAL PLAZA, STE. 525
HUNTSVILLE, TX 77340**

Continuation Page 3 of 10

Bid Opening Date: 3 P.M. **FEBRUARY 02, 2018**

Bid Number: **IT900086**

Name of Bidder: _____

BIDDER MUST FILL IN →

DALLAS, TX 75241

DATE: **WEDNESDAY, JANUARY 17, 2018**
TIME: **11:00 AM**

BIDDERS INTERESTED IN ATTENDING THE SITE VISIT MUST CONTACT THE TDCJ PURCHASER LISTED BELOW, TO BE PLACED ON THE ATTENDANCE LIST, BEFORE C.O.B. TUESDAY, JANUARY 16, 2018. BE PREPARED TO PROVIDE NAME(S)/PHONE NUMBER(S) OF ALL VENDOR AND/OR MANUFACTURER REPRESENTATIVES WHO WILL PLAN TO ATTEND.
NATALIE PRICE, CTP, NATALIE.PRICE@TDCJ.TEXAS.GOV

CAMERAS ONLY WILL BE ALLOWED. NO PHONES WILL BE ALLOWED ON THE UNIT.

BIDDERS ARE CAUTIONED TO READ CAREFULLY THE SPECIFICATION(S). BIDDERS MUST DIRECT OUR ATTENTION TO ANY EXCEPTIONS TO THE SPECIFICATION(S); EVEN THOUGH YOUR CATALOG OR SPEC SHEET MAY OR MAY NOT LIST SPECIFICATIONS FOR YOUR PRODUCT.

ALL DIMENSIONS, RATINGS AND MEASUREMENTS ARE APPROXIMATE, NOT EXACT.

SUBMITTALS ARE REQUIRED AND SHOULD BE MARKED OR HIGHLIGHTED TO SHOW COMPLIANCE OR VARIANCE WITH THE CORRESPONDING SPECIFICATION DENOTATION (PARAGRAPH NUMBER 1.A, 1.B ETC).

NOTE: IF BIDDING OTHER THAN THE REFERENCED BRAND/MODEL, PLEASE SUBMIT FULL DESCRIPTIVE LITERATURE WITH BID.

THE VENDOR SHALL PROVIDE AN ADEQUATE PLAN OF INSURANCE THAT PROVIDES:

- 1) COVERAGE TO PROTECT THE TEXAS DEPARTMENT OF CRIMINAL JUSTICE AGAINST ALL CLAIMS ARISING FROM SERVICE PERFORMED BY THE VENDOR.
- 2) COVERAGE TO PROTECT THE TDCJ FROM ACTIONS BY A THIRD PARTY AGAINST THE VENDOR OR ANY SUBCONTRACTOR(S) OF THE VENDOR AS A RESULT OF THIS CONTRACT.

COVERAGE TO PROTECT THE TDCJ FROM ANY ACTIONS BY OFFICERS, EMPLOYEES, AGENTS, THE VENDOR OR ANY SUBCONTRACTOR(S). THE VENDOR SHALL NOT COMMENCE WORK UNDER THIS CONTRACT UNTIL VENDOR HAS OBTAINED ALL THE INSURANCE REQUIRED AND CERTIFICATES OF SUCH INSURANCE HAVE BEEN

FILED AND ACCEPTED BY THE TDCJ. UNLESS OTHERWISE EXCEPTED, THE VENDOR SHALL PROVIDE AND MAINTAIN, UNTIL THE WORK REQUIRED BY THE CONTRACT IS COMPLETE AND ACCEPTED BY THE TDCJ, THE MINIMUM INSURANCE THAT IS REQUIRED. INSURANCE COVERAGE SHALL PROVIDE FOR 30-DAY NOTICE OF CANCELLATION OR MATERIAL CHANGE TO THE POLICY COVERAGE AND LIMITS.

MINIMUM AMOUNTS TO BE NOT LESS THAN:

LIABILITY: \$1,000,000.00

AUTO: \$ 500,000.00

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TEXAS DEPARTMENT OF CRIMINAL JUSTICE
CONTRACTS AND PROCUREMENT DEPARTMENT
TWO FINANCIAL PLAZA, STE. 525
HUNTSVILLE, TX 77340

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Bid Opening Date: 3 P.M. FEBRUARY 02, 2018

Bid Number: IT900086

Name of Bidder: _____

BIDDER MUST FILL IN →

WORKER'S COMPENSATION: \$ STATUTORY

THE CONTRACTOR SHALL INDEMNIFY AND SAVE THE DEPARTMENT,
THE TEXAS BOARD OF CRIMINAL JUSTICE, THE STATE
OF TEXAS, AND ITS OFFICERS, AGENTS, AND EMPLOYEES (HEREINAFTER
THE STATE) HARMLESS FROM AND AGAINST:

- A. ANY AND ALL CLAIMS ARISING FROM THE CONDUCT, MANAGEMENT, OR PERFORMANCE OF THE CONTRACT BY CONTRACTOR, ITS AGENTS, SUBCONTRACTORS, OR EMPLOYEES, INCLUDING, WITHOUT LIMITATION, ANY AND ALL CLAIMS ARISING FROM:
 - 1) ANY BREACH OR DEFAULT ON THE PART OF THE CONTRACTOR IN THE PERFORMANCE OF ANY COVENANT OR AGREEMENT ON ITS PART TO BE PERFORMED, PURSUANT TO THE TERMS OF THIS CONTRACT;
 - 2) ANY ACT OR NEGLIGENCE OF THE CONTRACTOR OR ANY OF ITS AGENTS, SUBCONTRACTORS, SERVANTS, EMPLOYEES, OR LICENSEES; AND
 - 3) ANY ACCIDENT, INJURY, OR DAMAGE WHATSOEVER CAUSED TO ANY PERSON, FIRM, OR CORPORATION.
- B. ALL COSTS, REASONABLE ATTORNEY'S FEES, EXPENSES, AND LIABILITIES INCURRED IN OR ABOUT ANY SUCH CLAIM, ACTION, OR PROCEEDING BROUGHT THEREON.

NOTHING HEREIN IS INTENDED TO DEPRIVE THE STATE OR CONTRACTOR OF THE BENEFITS OF ANY LAW LIMITING EXPOSURE TO LIABILITY AND/OR SETTING A CEILING ON DAMAGES, OR ANY LAWS ESTABLISHING DEFENSES FOR THEM. BY ENTERING INTO THIS CONTRACT, THE STATE DOES NOT WAIVE ITS RIGHT OF SOVEREIGN IMMUNITY, NOR DOES THE CONTRACTOR WAIVE ANY IMMUNITY THAT MAY EXTEND TO IT BY OPERATION OF LAW.
THE AFOREMENTIONED INDEMNIFICATION SHALL NOT BE AFFECTED BY A CLAIM THAT NEGLIGENCE OF THE STATE OR ITS RESPECTIVE AGENTS, CONTRACTORS, EMPLOYEES, OR LICENSEES CONTRIBUTED IN PART TO THE LOSS OR DAMAGE INDEMNIFIED AGAINST.

UNIT PRICE SHALL INCLUDE ANY AND ALL EXPENSES RELATED TO THE DELIVERY AND INSTALLATION OF EQUIPMENT BEING BID UPON, AS WELL AS ANY EXPENSES RELATED TO THE DEMOLITION AND REMOVAL OF EQUIPMENT CURRENTLY IN PLACE.

UNIT PRICE SHALL INCLUDE ANY AND ALL EXPENSES RELATED TO THE START-UP OF EQUIPMENT AS WELL AS TRAINING REGARDING USE AND MAINTENANCE OF EQUIPMENT.

BIDDER IS REQUESTED TO PROVIDE THE NAME, PHONE NUMBER, FAX NUMBER, AND E-MAIL ADDRESS OF A POINT OF CONTACT FOR THE SUBMITTED BID RESPONSE; HOWEVER, BIDDER IS HEREBY ADVISED THAT THIS POINT OF CONTACT WILL NOT BE RECOGNIZED AS OR ACCEPTED IN LIEU OF THE "AUTHORIZED SIGNATURE" REQUIREMENT OF THIS INVITATION FOR BID.
NAME : _____

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TEXAS DEPARTMENT OF CRIMINAL JUSTICE
CONTRACTS AND PROCUREMENT DEPARTMENT
TWO FINANCIAL PLAZA, STE. 525
HUNTSVILLE, TX 77340

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Bid Opening Date: 3 P.M. FEBRUARY 02, 2018

Bid Number: IT900086

Name of Bidder: _____

BIDDER MUST FILL IN →

PHONE #: _____

FAX #: _____

E-MAIL: _____

ITEM	STOCK NUMBER	CONT	QUANTITY	U/M	UNIT PRICE	EXTENSIONS
1	031-06		1.0000	EA	_____	_____

DAIKIN ROOFTOP AIR HANDLER, AHU #1, GROUND LEVEL
SOUTHWEST SIDE, COOLING ONLY
(SEE ENGINEERING SPECIFICATIONS FOR EQUIPMENT DETAILS AND SCOPE OF
WORK.)
MODEL: RPS

EXISTING EQUIPMENT:

MAKE: MCQUAY

MODEL: RPS080CLA / SERIAL: 32J0169301

MANUFACTURER'S STANDARD WARRANTY FOR THE ABOVE EQUIPMENT IS ____ YEARS.
SUCCESSFUL BIDDER SHALL FURNISH MANUFACTURER'S WARRANTY TO RECEIVING
LOCATION AT TIME OF DELIVERY.

THE NAME AND ADDRESS OF SERVICING DEALER NEAREST THE F.O.B. POINT WHO
WILL PERFORM THE WARRANTY WORK IS:

NAME : _____

ADDRESS: _____

PHONE #: _____

NAME OF INDIVIDUAL TO CONTACT FOR WARRANTY: _____

DELIVER TO:

TDCJ

HUTCHINS - UNIT MAINTENANCE

1500 EAST LANGDON

DALLAS, TX 75241

2	031-06		1.0000	EA	_____	_____
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DAIKIN ROOFTOP AIR HANDLER, AHU #2, GROUND LEVEL
SOUTHEAST SIDE, COOLING & HEATING
(SEE ENGINEERING SPECIFICATIONS FOR EQUIPMENT DETAILS AND SCOPE OF
WORK.)
MODEL: RPS

EXISTING EQUIPMENT:

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TEXAS DEPARTMENT OF CRIMINAL JUSTICE
CONTRACTS AND PROCUREMENT DEPARTMENT
TWO FINANCIAL PLAZA, STE. 525
HUNTSVILLE, TX 77340

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Bid Opening Date: 3 P.M. FEBRUARY 02, 2018

Bid Number: IT900086

Name of Bidder: _____

BIDDER MUST FILL IN →

ITEM	STOCK NUMBER	CONT	QUANTITY	U/M	UNIT PRICE	EXTENSIONS
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MAKE: MCQUAY

MODEL: RPS045CSA / SERIAL: 32J0126201

MANUFACTURER'S STANDARD WARRANTY FOR THE ABOVE EQUIPMENT IS ____ YEARS.
SUCCESSFUL BIDDER SHALL FURNISH MANUFACTURER'S WARRANTY TO RECEIVING
LOCATION AT TIME OF DELIVERY.

THE NAME AND ADDRESS OF SERVICING DEALER NEAREST THE F.O.B. POINT WHO
WILL PERFORM THE WARRANTY WORK IS:

NAME : _____

ADDRESS: _____

PHONE #: _____

NAME OF INDIVIDUAL TO CONTACT FOR WARRANTY: _____

DELIVER TO:

TDCJ

HUTCHINS - UNIT MAINTENANCE

1500 EAST LANGDON

DALLAS, TX 75241

3 031-06 1.0000 EA _____

DAIKIN ROOFTOP AIR HANDLER, AHU #3, GROUND LEVEL

NORTHWEST SIDE, COOLING & HEATING

(SEE ENGINEERING SPECIFICATIONS FOR EQUIPMENT DETAILS AND SCOPE OF
WORK.)

MODEL: RPS

EXISTING EQUIPMENT:

MAKE: MCQUAY

MODEL: RPS045CSY / SERIAL: 32J0126301

MANUFACTURER'S STANDARD WARRANTY FOR THE ABOVE EQUIPMENT IS ____ YEARS.
SUCCESSFUL BIDDER SHALL FURNISH MANUFACTURER'S WARRANTY TO RECEIVING
LOCATION AT TIME OF DELIVERY.

THE NAME AND ADDRESS OF SERVICING DEALER NEAREST THE F.O.B. POINT WHO
WILL PERFORM THE WARRANTY WORK IS:

NAME : _____

ADDRESS: _____

PHONE #: _____

NAME OF INDIVIDUAL TO CONTACT FOR WARRANTY: _____

DELIVER TO:

TDCJ

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TEXAS DEPARTMENT OF CRIMINAL JUSTICE
CONTRACTS AND PROCUREMENT DEPARTMENT
TWO FINANCIAL PLAZA, STE. 525
HUNTSVILLE, TX 77340

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Bid Opening Date: 3 P.M. FEBRUARY 02, 2018

Bid Number: IT900086

Name of Bidder: _____

BIDDER MUST FILL IN →

ITEM	STOCK NUMBER	CONT	QUANTITY	U/M	UNIT PRICE	EXTENSIONS
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HUTCHINS - UNIT MAINTENANCE
1500 EAST LANGDON
DALLAS, TX 75241

SUSPENSION, DEBARMENT, AND TERRORISM:

BIDDER CERTIFIES THAT THE BIDDING ENTITY AND ITS PRINCIPALS ARE ELIGIBLE TO PARTICIPATE IN THIS TRANSACTION AND HAVE NOT BEEN SUBJECTED TO SUSPENSION, DEBARMENT, OR SIMILAR INELIGIBILITY DETERMINED BY ANY FEDERAL, STATE, OR LOCAL GOVERNMENTAL ENTITY AND THAT BIDDER IS IN COMPLIANCE WITH THE STATE OF TEXAS STATUTES AND RULES RELATING TO PROCUREMENT AND THAT BIDDER IS NOT LISTED ON THE FEDERAL GOVERNMENT'S TERRORISM WATCH LIST AS DESCRIBED IN EXECUTIVE ORDER 13224. ENTITIES INELIGIBLE FOR FEDERAL PROCUREMENT ARE LISTED AT [HTTPS://WWW.SAM.GOV/](https://www.sam.gov/)

BIDDER AGREES THAT ANY PAYMENTS DUE UNDER THIS CONTRACT WILL BE APPLIED TOWARDS ANY DEBT, INCLUDING BUT NOT LIMITED TO DELINQUENT TAXES AND CHILD SUPPORT THAT IS OWED TO THE STATE OF TEXAS.

RIGHT TO OFFSET:

IN THE EVENT TDCJ DETERMINES THAT THE BIDDER OWES MONEY TO TDCJ UNDER ANY CONTRACT OR PURCHASE ORDER, TDCJ UPON PROVIDING THE BIDDER WITH WRITTEN NOTICE OF ITS INTENT TO OFFSET, SHALL HAVE THE RIGHT TO WITHHOLD MONIES DUE VENDOR WITH RESPECT TO ANY CONTRACT OR PURCHASE ORDER RESULTING FROM THIS SOLICITATION OR WITH RESPECT TO ANY CONTRACT OR PURCHASE ORDER WITH TDCJ AND APPLY SUCH MONIES TO THE MONEY DUE TDCJ.

IN ACCORDANCE WITH SECTION 2252.907, GOVERNMENT CODE, THE BIDDER ACKNOWLEDGES THAT THIS CONTRACT AND INFORMATION CREATED OR MAINTAINED IN CONNECTION WITH THIS CONTRACT IS PUBLIC INFORMATION AND SUBJECT TO DISCLOSURE AS PROVIDED BY CHAPTER 552, GOVERNMENT CODE (TEXAS PUBLIC INFORMATION ACT). THE PUBLIC INFORMATION ACT MAY REQUIRE THE BIDDER TO MAKE INFORMATION RELATED TO THIS CONTRACT AVAILABLE TO THE PUBLIC PURSUANT TO A REQUEST FOR PUBLIC INFORMATION. THE BIDDER AGREES, UPON REQUEST, TO MAKE INFORMATION RELATED TO THIS CONTRACT THAT IS NOT OTHERWISE EXCEPTED FROM RELEASE BY THE PUBLIC INFORMATION ACT AVAILABLE TO THE PUBLIC IN HARD COPY, UNLESS THE

REQUESTOR OF THE INFORMATION CONSENTS TO RECEIVE THE INFORMATION IN ANOTHER MUTUALLY AGREEABLE FORMAT. THE BIDDER ACKNOWLEDGES THAT THE AGENCY SHALL NOT PROVIDE LEGAL COUNSEL RELATED TO THE BIDDER'S COMPLIANCE WITH THE PUBLIC INFORMATION ACT.

RECYCLED PRODUCTS :

ANY PRODUCT(S) BEING BID ON THIS SOLICITATION CONTAINING RECYCLED MATERIAL, WHETHER POST-CONSUMER OR PRE-CONSUMER, OR IS A PRODUCT THAT HAS BEEN REMANUFACTURED, REBUILT, OR OTHERWISE RESTORED TO A LIKE NEW CONDITION, SHALL BE INDICATED AS SUCH ON THE APPROPRIATE LINE ITEMS AS

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TEXAS DEPARTMENT OF CRIMINAL JUSTICE
CONTRACTS AND PROCUREMENT DEPARTMENT
TWO FINANCIAL PLAZA, STE. 525
HUNTSVILLE, TX 77340

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Bid Opening Date: 3 P.M. FEBRUARY 02, 2018

Bid Number: IT900086

Name of Bidder: _____

BIDDER MUST FILL IN →

ITEM	STOCK NUMBER	CONT	QUANTITY	U/M	UNIT PRICE	EXTENSIONS
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HAVING EITHER A RECYCLED CONTENT OR IS A REMANUFACTURED PRODUCT.

UNIT RULES & REGULATIONS:

WHEN PERFORMING SERVICES ON CORRECTIONAL FACILITIES,
CONTRACTOR'S COMPLIANCE WITH TDCJ SECURITY PROCEDURES IS
REQUIRED.

SPECIFIC REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO:

1. ALL CONTRACTOR STAFF PERFORMING SERVICES WITHIN A CORRECTIONAL FACILITY, AND THOSE AREAS WHERE OFFENDERS ARE ASSIGNED, WILL BE REQUIRED TO HAVE A SECURITY ESCORT THROUGHOUT THE DURATION OF THE CONTRACT. ALL CONTRACTOR STAFF SHALL BE REQUIRED TO FOLLOW THE DIRECTION OF SECURITY STAFF. CONTRACTOR STAFF SHALL NOT INTERACT WITH OFFENDERS.

FURTHERMORE, CONTRACTOR STAFF SHALL ADHERE TO THE PROVISIONS FOUND IN PERSONNEL DIRECTIVE PD-29, "SEXUAL MISCONDUCT WITH OFFENDERS", WHICH IS LOCATED ON THE TDCJ WEBSITE AT <HTTP://WWW.TDCJ.STATE.TX.US/DIVISIONS/HR/HR-POLICY/PD-29.PDF>.

(NOTE: THIS ADDRESS MUST BE IN LOWER CASE LETTERING WHEN ENTERED IN THE ADDRESS BAR OF YOUR BROWSER.)

THE CONTRACTOR SHALL NOTIFY EACH OF THE CONTRACTOR'S STAFF ACCESSING TDCJ'S PREMISES OF THE PROVISIONS WITHIN THIS DIRECTIVE, PRIOR TO COMMENCING WORK.

2. ALL CONTRACTOR STAFF, EQUIPMENT, AND VEHICLES ARE SUBJECT TO SEARCH AND INSPECTION AT ANY TIME WHILE ON TDCJ PROPERTY.
3. ALL VEHICLES WILL BE LOCKED AND SECURED WHEN NOT IN USE. DRIVERS ARE RESPONSIBLE TO KEEP KEYS IN THEIR DIRECT POSSESSION AT ALL TIMES.
4. CONTRACTOR STAFF SHALL NOT INTRODUCE ANY TYPE OF CONTRABAND ONTO ANY TDCJ FACILITY. EXAMPLES OF CONTRABAND INCLUDE, BUT ARE NOT LIMITED TO FIREARMS, KNIVES, WEAPONS OF ANY TYPE, TOBACCO OF ANY TYPE, ALCOHOL, CONTROLLED SUBSTANCES (ILLEGAL DRUGS), PAGERS, AND CELL PHONES. CONTRACTOR STAFF MAY NOT CARRY MORE THAN TWENTY-FIVE DOLLARS (\$25.00) IN CASH INTO ANY TDCJ FACILITY.
5. THE CONTRACTOR SHALL NOT ALLOW ANY PERSON WHO HAS A FELONY OR MISDEMEANOR CONVICTION, PENDING CHARGE, OR OUTSTANDING WARRANT TO ENTER ONTO TDCJ PROPERTY TO COMPLETE ANY PART OF THIS CONTRACT WITHOUT THE WRITTEN PERMISSION OF TDCJ. CONVICTION ALONE DOES NOT AUTOMATICALLY CAUSE AN EMPLOYEE TO BECOME INELIGIBLE FROM WORKING ON THIS CONTRACT. EACH EMPLOYEE SHALL BE REVIEWED ON A CASE BY CASE BASIS.
6. TDCJ MAY PERFORM A BACKGROUND CHECK ON THE AWARDED VENDOR.

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TEXAS DEPARTMENT OF CRIMINAL JUSTICE
CONTRACTS AND PROCUREMENT DEPARTMENT
TWO FINANCIAL PLAZA, STE. 525
HUNTSVILLE, TX 77340

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Bid Opening Date: 3 P.M. FEBRUARY 02, 2018

Bid Number: IT900086

Name of Bidder: _____

BIDDER MUST FILL IN →

ITEM	STOCK NUMBER	CONT	QUANTITY	U/M	UNIT PRICE	EXTENSIONS
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THE EMPLOYEES OF THE AWARDED VENDOR MAY BE REQUIRED TO COMPLETE A NON-EMPLOYEE BACKGROUND QUESTIONNAIRE. TDCJ RESERVES THE RIGHT TO ACCEPT OR REJECT EACH EMPLOYEE OF THE AWARDED VENDOR BASED UPON THE RESULTS OF THE BACKGROUND CHECK. NO EMPLOYEE OF THE CONTRACTED VENDOR WILL BE ALLOWED ON THE PREMISES PRIOR TO THE BACKGROUND CHECK APPROVAL IF THE TDCJ FACILITY REQUIRES A BACKGROUND CHECK.

7. CONTRACTOR STAFF MUST HAVE IN THEIR POSSESSION A VALID DRIVER'S LICENSE OR CURRENT PHOTO IDENTIFICATION.
8. CONTRACTOR STAFF ATTIRE MUST BE APPROPRIATE OR COMPATIBLE WITH THE CURRENT BUSINESS ENVIRONMENT.

TDCJ RESERVES THE RIGHT TO IMMEDIATELY REMOVE AND/OR REFUSE ENTRY TO ANY INDIVIDUAL WHO HAS VIOLATED THE ABOVE RESTRICTIONS. THE UNIT WARDEN OR FACILITY ADMINISTRATOR WILL ULTIMATELY BE RESPONSIBLE FOR INTERPRETING THESE RULES.

ALL TOOLS IN TOOL BOXES ARE TO BE INVENTORIED WITH THE TOTAL NUMBER OF TOOLS IN EACH BOX PLAINLY MARKED ON THE OUTSIDE OF THE BOX.

COPIES OF TOOL INVENTORIES ARE TO BE FILED WITH THE ENTRANCE GATE OFFICER, THE OWNER'S DESIGNATED REPRESENTATIVE AND THE CONTRACTOR'S PROJECT SUPERINTENDENT. ANY CHANGES TO AN INDIVIDUAL'S TOOL BOX INVENTORY SHALL BE IMMEDIATELY NOTED ON ALL INVENTORY SHEETS.

TOOLS SHALL BE CROSS-CHECKED AGAINST THE NUMBER ON THE TOOL BOX UPON ENTRY AND EXIT FROM THE FACILITY.

CLASS "A" TOOLS SHALL RECEIVE SPECIAL HANDLING. WHEN TOOLS ARE NOT IN USE, THEY SHALL BE KEPT AND LOCKED UNDER KEY IN A SECURE AREA AND IF POSSIBLE RENDERED INOPERABLE. CLASS "A" TOOLS INCLUDE, BUT ARE NOT LIMITED TO, TOOLS MOST LIKELY TO BE USED IN AN ESCAPE ATTEMPT OR DO BODILY HARM. THESE GENERALLY INCLUDE HACKSAW BLADES, FILES, PIPE WRENCHES, LADDERS, ACETYLENE CUTTING TIPS, PIPE, AND BOLT CUTTERS, ETC.

AT NO TIME ARE CLASS "A" TOOLS TO BE LEFT UNATTENDED AND WHEN IN USE, THE ON-SITE TDCJ SECURITY OFFICER WILL BE NOTIFIED.

ALL GENERATORS, LADDERS, AND ACETYLENE CUTTERS MUST BE SECURED AT THE END OF EACH WORKDAY.

EMERY WHEELS WILL BE LOCKED AND RENDERED INOPERABLE WHEN NOT IN USE UNLESS STORED OUTSIDE THE SECURE PERIMETER.

WHEN A CLASS "A" TOOL IS LOST, THE ASSISTANT WARDEN FOR SECURITY OR WARDEN SHALL BE IMMEDIATELY NOTIFIED.

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TEXAS DEPARTMENT OF CRIMINAL JUSTICE
CONTRACTS AND PROCUREMENT DEPARTMENT
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Bid Opening Date: 3 P.M. FEBRUARY 02, 2018

Bid Number: IT900086

Name of Bidder: _____

BIDDER MUST FILL IN →

ITEM	STOCK NUMBER	CONT	QUANTITY	U/M	UNIT PRICE	EXTENSIONS
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- A. ANY OFFENDERS WHO MAY HAVE HAD ACCESS TO THE AREA WILL BE HELD UNTIL A THOROUGH SEARCH IS MADE.
- B. A WRITTEN REPORT WILL BE MADE COVERING THE DETAILS OF THE LOSS.

ALL HAZARDOUS AND POISONOUS CHEMICALS, NOT IN USE, ARE TO BE STORED IN A LOCKED TOOL TRAILER OR OTHER SECURE AREA. AN INVENTORY SHALL BE MAINTAINED AND DIRECT SUPERVISION PROVIDED WHEN THE ITEMS ARE USED AT THE WORK SITE. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ALL HAZARDOUS MATERIALS AND ALL HAZARDOUS WASTE GENERATED UNDER HIS CONTROL.

FOR QUESTIONS OR INQUIRIES CONTACT:

KELLY SCOTT, CTPM
TDCJ CONTRACTS AND PROCUREMENT
TWO FINANCIAL PLAZA STE. 525
HUNTSVILLE, TX 77340
PH: 936-437-7047 FAX: 325-223-0310
EMAIL: KELLY.SCOTT@TDCJ.TEXAS.GOV

FOR QUESTIONS OR INQUIRIES CONTACT:

NATALIE PRICE, CTP
TDCJ CONTRACTS AND PROCUREMENT
TWO FINANCIAL PLAZA STE. 525
HUNTSVILLE, TX 77340
PH: 936-437-7066 FAX: 325-223-0310
EMAIL: NATALIE.PRICE@TDCJ.TEXAS.GOV

TEXAS DEPARTMENT OF CRIMINAL JUSTICE

TERMS AND CONDITIONS

ITEMS BELOW APPLY TO AND BECOME A PART OF BID
ANY EXCEPTIONS THERETO MUST BE IN WRITING

1. Bidding Requirements:

- 1.1 Bidders must comply with all rules, regulations and statutes relating to purchasing in the State of Texas in addition to the requirements of this form.
- 1.2 Bids should be submitted on this form. Bidders must price per unit shown. Unit prices shall govern in the event of extension errors. If a price quotation is submitted as part of the bid, the quotation must be referenced on the bid document and signed by the bidder to establish formal linkage to the bid.
- 1.3 Bids must be time stamped at the office designated in the solicitation on/or before the hour and date specified for the bid opening. Any bid received at the designated location after the exact time specified will not be considered unless TDCJ determines that it was properly addressed and in the possession of TDCJ prior to the specified time but was late due to mishandling by the agency.

FAXED OR E-MAILED BIDS WILL NOT BE ACCEPTED.

- 1.4 Late and/or unsigned bids will not be considered under any circumstances. Person signing bid must have the authority to bind the firm in a contract.
- 1.5 Quote F.O.B. destination, freight prepaid and allowed, unless otherwise stated within the specifications.
- 1.6 Bid prices are requested to be firm for TDCJ acceptance for 30 days from bid opening date. "Discount from list" bids are not acceptable unless requested. An offer for an early payment discount may be considered in making an award. Cash discounts offered will be taken if earned.
- 1.7 Bidder should enter Texas Identification Number System (T.I.N.S.) number, full firm name and address of bidder on the face of this form. Enter in the space provided, if not shown. Additionally, firm name should appear on each continuation page of a bid, in the block provided in the upper right hand corner. The Texas ID Number is the payee identification number assigned and used by the Comptroller of Public Accounts of Texas to process payment for goods/services. If this number is not known, please visit <http://www.window.state.tx.us/taxinfo/taxforms/ap-152.pdf> to set up a Texas Identification Number:

Enter Federal Employer's Identification Number

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In an effort to minimize identity theft, every company MUST have an Employer Identification Number (EIN), also known as a federal tax identification number prior to award of a contract. For information on obtaining you EIN, you may call 800-829-4933 or visit the following website: <http://www.irs.gov/businesses/>

- 1.8 Bid cannot be altered or amended after opening time. Alterations made before opening time should be initialed by bidder or his authorized agent. No bid can be withdrawn after opening time without approval by the TDCJ based on an acceptable written reason.

- 1.9 Purchases made for State use are exempt from the State Sales tax and Federal Excise tax. Do not include tax in bid. Excise Tax Exemption Certificates are available upon request.

1.10 **Award Notice:** The State reserves the right to make an award on the basis of low line item bid, low total of line items, or in any other combination that will serve the best interest of the State and to reject any and all bid items at the sole discretion of the State. The State also reserves the right to accept or reject all or any part of any bid, waive minor technicalities and award the bid to best serve the interests of the State. Any contract may also be extended up to three months at the sole discretion of the State.

1.11 Consistent and continued tie bidding could cause rejection of bids by the TDCJ and/or investigation for antitrust violations.

2. Specification:

2.1 Catalogs, brand names or manufacturer's references are descriptive only, and indicate type and quality desired. Bids on brands of like nature and quality will be considered unless advertised as a proprietary purchase under Government Code, Title 10, Subtitle D, Section 2155.067. If bidding on other than reference specification(s), bid should show manufacturer, brand, or trade name, and other description of product offered. If other than brand(s) specified is offered, illustrations and complete description of product offered are requested to be made part of the bid. Failure to take exception to specifications or reference data will require bidder to furnish specified brand names, numbers, etc.

2.2 Unless otherwise specified, items bid shall be new and unused and of current production.

2.3 All electrical items must meet all applicable OSHA standards and regulations, and bear the appropriate listing from UL, FMRC or NEMA.

2.4 Samples, when requested, must be furnished free of expense to the State. If not destroyed in examination, they will be returned to the bidder, on request, at bidder's expense. Each sample should be marked with bidder's name and address, and bid number. Do not enclose in or attach bid to sample.

2.5 The State will not be bound by any oral statement or representation contrary to the written specifications of this Invitation For Bids (IFB).

2.6 Manufacturer's standard warranty shall apply unless otherwise stated in the IFB.

3. Tie Bids:

Awards will be made in accordance with 34 TAC Rules 20.207 (c) (2) and 20.306 (preferences).

4. Delivery:

4.1 Show number of days required to place material in TDCJ's receiving location under normal conditions. Delivery days means calendar days, unless otherwise specified. Failure to state delivery time obligates bidder to delivery in 14 calendar days. Unrealistic delivery promises may cause bid to be disregarded.

4.2 If delay is foreseen, vendor shall give written notice to the TDCJ. Vendor must keep the TDCJ advised at all times of status of order. Default in promised delivery (without accepted reasons) or failure to meet specifications authorizes the TDCJ to purchase the goods and services of this IFB elsewhere and charge any increased costs for the

goods and services, including the cost of rebidding, to the bidder.

4.3 No substitutions permitted without written approval of the TDCJ Contracts and Procurement Department.

4.4 Delivery shall be made during normal working hours only, unless prior approval has been obtained from the TDCJ.

5. Inspection And Tests:

All goods will be subject to inspection and test by the State. Authorized TDCJ personnel shall have access to supplier's place of business for the purpose of inspecting merchandise. Tests shall be performed on samples submitted with the bid or on samples taken from regular shipment. All costs shall be borne by the vendor in the event products tested fail to meet or exceed all conditions and requirements of the specification. Goods delivered and rejected in whole or in part may, at the State's option, be returned to the vendor or held for disposition at vendor's expense. Latent defects may result in revocation of acceptance.

6. Award of Contract:

6.1 A response to this IFB is an offer to contract based upon the terms, conditions and specifications contained herein. Bids do not become contracts until they are accepted through a purchase order. The contract shall be governed, construed and interpreted under the laws of the State of Texas as the same may be amended from time to time. The factors listed in Texas Government Code, Title 10, Subtitle D, Section 2155.074 and Section 2156.007 shall also be considered in making an award when specified. Any legal actions must be filed in Travis County, Texas.

6.2 The TDCJ award policy shall consist of, but not be limited to, the following factors in combination, but not necessarily in their order of importance:

- A. Prices;
- B. Bidders previous record of performance and service;
- C. Quality and conformance to specifications;
- D. Any other best value factors so indicated.

7. Advertising of Award

The awarded vendor agrees not to refer to awards in commercial advertising in such a manner as to state or imply that the product or service provided is endorsed or preferred by the TDCJ or is considered by the TDCJ to be superior to other products or services.

8. Payment:

Payment shall be made thirty calendar days after the later of (1) the date an uncontested invoice is received, (2) the date goods are received, and (3) the date services are completed. Refer to Texas Government Code, Chapter 2251.

9. Right to Offset:

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In the event TDCJ determines that vendor owes money to TDCJ under any contract or purchase order, TDCJ, upon providing vendor with written notice of its intent to offset, shall have the right to withhold monies due vendor with respect to this purchase order or with respect to any contract or purchase order with TDCJ and apply such monies to the money due TDCJ.	ACTIONS, CLAIMS, DEMANDS, OR SUITS, AND ALL RELATED COSTS, ATTORNEY FEES, AND EXPENSES arising out of, or resulting from any acts or omissions of the Vendor or its agents, employees, subcontractors, Order Fulfillers, or suppliers of subcontractors in the execution or performance of the Contract and any Purchase Orders issued under the Contract. THE DEFENSE SHALL BE COORDINATED BY VENDOR WITH THE OFFICE OF THE ATTORNEY GENERAL WHEN TEXAS STATE AGENCIES ARE NAMED DEFENDANTS IN ANY LAWSUIT AND VENDOR MAY NOT AGREE TO ANY SETTLEMENT WITHOUT FIRST OBTAINING THE CONCURRENCE FROM THE OFFICE OF THE ATTORNEY GENERAL. VENDOR AND THE CUSTOMER AGREE TO FURNISH TIMELY WRITTEN NOTICE TO EACH OTHER OF ANY SUCH CLAIM.	12.3 The parties agree that the terms, covenants and provisions of paragraphs 12.1, and 12.2, shall survive the termination of this purchaser order.
10. Vendor Maintenance Direct Deposit and Substitute W-9 Form (Electronic Funds Transfer):	Government Code 403.016 (c) (3) encourages state agencies to transmit payments to vendors through electronic funds transfer (Direct Deposit). To set up your account, contact agency Accounts Payable Branch at (936) 437-8761 or (936) 437-6357. Regardless as to whether Direct Deposit is chosen, the awarded vendor shall submit a completed Vendor Maintenance Direct Deposit and Substitute W-9 Form to TDCJ Accounts Payable. Vendors who have already submitted a form for another separate purchase order are not required to submit another form. The form and instructions are found at the following link on the TDCJ website: www.tdcj.texas.gov/divisions/finance/finance_act_accounts_pay.html#vendor_forms . To enroll for advance notification of electronic funds transfer to your account, please contact the number listed above. Payment information may be obtained by calling the Comptroller of Public Accounts toll free at (800) 531-5441, ext. 3-3660 or in Austin, Texas, call (512) 463-3660 or to receive via fax, call (512) 936-3461 or via the Internet at https://fmx.cpa.state.tx.us/fm/payment/index.php . Vendors may select Option 3 (PIN not required) and enter their vendor identification number and 696 for the agency number.	13. Vendor Assignments: Vendor hereby assigns to TDCJ any and all claims for overcharges associated with this contract arising under the antitrust laws of the United States 15 U.S.C.A. Section 1, et seq. (1973), and the antitrust laws of the State of Texas, TEX. Bus. & Comm. Code Ann. Sec. 15.01 et seq. (1967).
	12.2 Infringements	Any product(s) being bid on this solicitation containing recycled material, whether post-consumer or pre-consumer, or is a product that has been remanufactured, rebuilt, or otherwise restored to a like new condition, shall be indicated as such on the appropriate line items as having either a recycled content or is a remanufactured product.
	14. Recycled Products:	
	15. Material Safety Data Sheets:	When applicable, Material Safety Data Sheets are to be provided with each shipment.
	16. Electronic and Information Resources Accessibility Standards, as required by 1 TAC Chapter 213:	
	16.1 State agencies shall procure products which comply with the State of Texas Accessibility requirements for Electronic and Information Resources specified in 1 TAC Chapter 213 when such products are available in the commercial marketplace or when such products are developed in response to a procurement solicitation.	
	16.2 Vendor shall provide the TDCJ with the URL to its Voluntary Product Accessibility Template (VPAT) for reviewing compliance with the State of Texas Accessibility requirements (based on the federal standards established under Section 508 of the Rehabilitation Act), or indicate that the product/service accessibility information is available from the General Services' Administration "Buy Accessible Wizard" (http://www.buyaccessible.gov). Vendors not listed with the "Buy Accessible Wizard" or supplying a URL to their VPAT must provide the TDCJ with a report that addresses the same accessibility criteria in substantively the same format. Additional information regarding the "Buy Accessible Wizard" or obtaining a copy of the VPAT is located at http://www.section508.gov .	
	17. E-Verify System	
	The TDCJ shall require the following as a condition of all service contracts:	
	By entering into this Contract, the Contractor certifies and ensures that it utilizes and will continue to utilize, for the term of this Contract, the U.S. Department of Homeland Security's E-Verify system to determine the eligibility of:	
	1. All persons employed to perform duties within Texas, during the term of the Contract;	
	2. All persons (including subcontractors) assigned by the Respondent to perform work pursuant to the Contract, within the United States of America.	
	The Contractor shall provide, upon request of the TDCJ, an electronic or hardcopy screenshot of the confirmation or tentative non-confirmation screen containing the E-Verify case verification number for	

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<p>attachment to the Form I-9 for the three most recent hires that match the criteria above, by the Contractor, and Contractor's subcontractors, as proof that this provision is being followed.</p> <p>If this certification is falsely made, the Contract may be immediately terminated, at the discretion of the state and at no fault to the state, with no prior notification. The Contractor shall also be responsible for the costs of any re-solicitation that the state must undertake to replace the terminated Contract.</p> <p>18. Bidder Affirmation:</p> <p>Signing this bid with a false statement is a material breach of contract and shall void the submitted bid or any resulting contracts, and the bidder shall be removed from all bid lists. By signature hereon affixed, the bidder hereby certifies that:</p> <p>18.1 Suspension, Debarment, and Terrorism: Bidder certifies that the bidding entity and its principals are eligible to participate in this transaction and have not been subjected to suspension, debarment, or similar ineligibility determined by any federal, state or local governmental entity and that bidder is in compliance with the State of Texas statutes and rules relating to procurement and that bidder is not listed on the Federal Government's Terrorism Watch List as described in Executive Order 13224. Entities ineligible for federal procurement are listed at https://www.sam.gov.</p> <p>18.2 The bidder has not given, offered to give, nor intends to give at anytime hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted bid.</p> <p>18.3 Neither the bidder nor the firm, corporation, partnership, or institution represented by the bidder, or anyone acting for such firm, corporation, or institution has violated the antitrust laws of this State or the Federal Antitrust Laws (see section 12, above), nor communicated directly or indirectly the bid made to any competitor or any other person engaged in such line of business.</p> <p>18.4 Pursuant to Section 2155.004, Government Code, neither the bidder nor any person or entity which will participate financially in any contract resulting from this IFB has received compensation for participation in the preparation of the specifications for this IFB. Under Section 2155.004, Government Code, the bidder certifies that the individual or business entity named in this bid or contract is not ineligible to receive the specified contract and acknowledges that this contract may be terminated and payment withheld if this certification is inaccurate. Section 2155.004 prohibits a person or entity from receiving a state contract if they received compensation for participating in preparing the solicitation or specifications for the contract.</p> <p>18.5 Pursuant to Section 231.006 (d), Family Code re: child support, the bidder certifies that the individual or business entity named in this bid is not ineligible to receive the specified payment and acknowledges that this contract may be terminated and payment may be withheld if this certification is inaccurate. Furthermore, any bidder subject to Section 231.006 must include names and Social Security numbers of each person with at least 25% ownership of the business entity submitting the bid.</p>	<p>Enter Name & Social Security Numbers for each person. This information must be provided prior to contract award.</p> <p>Name: _____</p> <p>Social Security Number: _____</p> <p>FEDERAL PRIVACY ACT NOTICE: This notice is given pursuant to the Federal Privacy Act. Texas Family Code Section 231.006 requires a bid or an application for a contract, grant, or loan paid from state funds to include the name and social security number of the individual or sole proprietor and each partner, shareholder, or owner with an ownership interest of at least 25 percent of the business entity submitting the bid or application. The Social Security number(s) will be kept confidential and only disclosed in accordance with Texas Family Code Section 231.302.</p> <p>18.6 Sections 2155.006 and 2261.053, Government Code, prohibit state agencies from awarding contracts to any person who, in the past five years, has been convicted of violating a federal law or assessed a penalty in connection with a contract involving relief for Hurricane Rita, Hurricane Katrina, or any other disaster, as defined by Section 418.004, Government Code, occurring after September 24, 2005. Under Section 2155.006, Government Code, the bidder certifies that the individual or business entity named in this bid or contract is not ineligible to receive the specified contract and acknowledges that this contract may be terminated and payment withheld if this certification is inaccurate.</p> <p>18.7 The contractor shall indemnify and save the Department, the Texas Board of Criminal Justice, the State of Texas and its officers, agents and employees (hereinafter the State) harmless from and against:</p> <p>A. Any and all claims arising from the conduct, management or performance of the contract by contractor, its agents, subcontractors or employees, including, without limitation, any and all claims arising from:</p> <p>1. Any breach or default on the part of the contractor in the performance of any covenant or agreement on its part to be performed, pursuant to the terms of this contract;</p>	<p>2. Any act or negligence of the contractor or any of its agents, subcontractors, servants, employees or licensees;</p> <p>3. Any accident, injury or damage whatsoever caused to any person, firm or corporation.</p> <p>B. All costs, reasonable attorney's fees, expenses and liabilities incurred in or about any such claim, action or proceeding brought thereon.</p> <p>Nothing herein is intended to deprive the State or contractor of the benefits of any law limiting exposure to liability and/or setting a ceiling on damages, or any laws establishing defenses for them. By entering into this contract, the State does not waive its right of sovereign immunity, nor does the contractor waive any immunity that may extend to it by operation of law. The aforementioned indemnification shall not be affected by a claim that negligence of the State or its respective agents, contractors, employees or licensees contributed in part to the loss or damage indemnified against.</p> <p>The parties agree that the terms, covenants and provisions of paragraph 18.7 shall survive the termination of this contract.</p> <p>18.8 As required by Section 2252.903, Government Code, bidder agrees that any payments due under a contract resulting from this IFB shall be directly applied towards eliminating any debt or delinquency including, but not limited to, delinquent taxes, delinquent student loan payments, and delinquent child support, until the debt is paid in full. Bidder shall comply with rules adopted by TDCJ under Sections 403.055, 403.0551, 2252.903, Government Code and other applicable laws and regulations regarding satisfaction of debts or delinquencies to the State of Texas.</p> <p>18.9 Bidder certifies that they are in compliance with Section 669.003 of the Government Code, relating to contracting with executive head of a State agency. If Section 669.003 applies, bidder will complete the following information in order for the bid to be evaluated:</p> <p>Name of Former Executive: _____</p> <p>Name of State Agency: _____</p> <p>Date of Separation from State Agency: _____</p> <p>Position with Bidder: _____</p> <p>Date of Employment with Bidder: _____</p> <p>18.10 In accordance with Section 2155.4411, Government Code, bidder agrees that during the performance of a contract for services it shall purchase products and materials produced in Texas when they are available at a price and time comparable to products and materials produced outside this state.</p> <p>18.11 Bidder represents and warrants that payment to the bidder and the bidder's receipt of appropriated or other funds under any contract resulting from this IFB are not prohibited by Section 556.005 or Section 556.008, Government Code, relating to the prohibition of using state funds for lobbying activities.</p> <p>18.12 Bidder represents and warrants that it has no actual or potential conflicts of interest in providing the requested items to TDCJ under the IFB and any resulting contract, if any, and that bidder's provision of the requested items under</p>
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<p>the IFB and any resulting contract, if any, would not reasonably create an appearance of impropriety.</p> <p>18.13 Bidder certifies that they are in compliance with Section 572.069 of the Government Code relating to employment of a former state officer or employee. A former state officer or employee of the TDCJ who during the period of state service or employment participated on behalf of the TDCJ on a procurement or contract negotiation involving a business entity may not accept employment from that business entity before the second anniversary of the date the officer's or employee's service or employment with the TDCJ ceased.</p> <p>18.14 Bidder certifies that they are in compliance with Chapter 2270 of the Government Code relating to the prohibition of a state agency contracting with companies that boycott Israel or boycotts Israel during the term of the contract. The bidder certifies that the individual or business entity named in this bid or contract is not ineligible to receive the specified contract and acknowledges that this contract may be terminated and payment withheld if the certification is inaccurate.</p> <p>18.15 Bidder certifies that they are in compliance with Chapter 2252.152 of the Government Code relating to the prohibition of a state agency contracting with companies that are engaged in business with Iran, Sudan, or foreign terrorist organizations. The bidder certifies that the individual or business entity named in this bid or contract is not ineligible to receive the specified contract and acknowledges that this contract may be terminated and payment withheld if this certification is inaccurate.</p>	<p>B. Neither the occurrence of an event nor the pendency of a claim constitutes grounds for the suspension of performance by the contractor, in whole or in part.</p> <p>C. This provision shall not be construed to prohibit contractor from seeking any other legal or equitable remedy to which it is entitled.</p> <p>22. Availability of Funds for Next Fiscal Year</p> <p>Funds are not presently available for performance under this contract beyond the current fiscal year for which the contract becomes effective. (Note: a state agency's fiscal year begins September 1st and runs through August 31st). TDCJ's obligation for performance of this contract beyond the fiscal year for which the contract becomes effective is contingent upon legislative approval and the availability of appropriated funds from which payment for contract purposes can be made. No legal liability on the part of TDCJ for any payment may arise for performance under this contract beyond the fiscal year for which the contract becomes effective until funds are made available to TDCJ for performance and until the contractor receives notice of availability. Refer to Section 22, Termination for Unavailability of Funds, for TDCJ's right to terminate this contract in the event it is appropriated insufficient funds.</p> <p>23. Termination for Unavailability of Funds</p> <p>The payment of money by TDCJ or the State under any provisions hereof is contingent upon the availability of funds appropriated by the Legislature to an agency or department of the State to cover the provisions hereof. Neither the State, TDCJ nor its elected officials, officers, employees, agents, attorneys or other individuals acting on behalf of the State, make any representations or warranty as to whether any appropriation will, from time to time during the term of this contract, be made by the Legislature of the State.</p> <p>The contractor acknowledges that TDCJ does not receive a "line item appropriation". If the funds appropriated are not sufficient to pay for TDCJ's operating expenses, contractual obligations and other financial obligations, TDCJ, in its sole discretion, will determine what operating expenses, contractual obligations and other financial obligations it will pay. In the event TDCJ determines it was not appropriated sufficient money, TDCJ may terminate this contract without paying contractor any additional money or penalty; provided that TDCJ will pay the contractor for obligation that occurred up to the time of termination.</p>	<p>25.1 In addition to and without limitation on the other audit provisions of this IFB, pursuant to Section 2262.003, Texas Government Code, the state auditor may conduct an audit or investigation of the bidder or any other entity or person receiving funds from the state directly under this contract or indirectly through a subcontract under this contract. The acceptance of funds by the bidder or any other entity or person directly under this contract or indirectly through a subcontract under this contract acts as acceptance of the authority of the state auditor, under the direction of the legislative audit committee, to conduct an audit or investigation in connection with those funds. Under the direction of the legislative audit committee, the bidder or other entity that is the subject of an audit or investigation by the state auditor must provide the state auditor with access to any information the state auditor considers relevant to the investigation or audit. This IFB or any contract resulting from this IFB may be amended unilaterally by TDCJ to comply with any rules and procedures of the state auditor in the implementation and enforcement of Section 2262.003, Texas Government Code. Bidder will ensure that this clause concerning the authority to audit funds received indirectly by subcontractors through the bidder and the requirement to cooperate is included in any subcontract it awards.</p> <p>25.2 The parties agree that the terms, covenants and provisions of paragraph 27.1 shall survive the termination of this purchase order.</p> <p>26. Fraud, Waste or Abuse</p> <p>In accordance with Texas Government Code, Chapter 321, the State Auditor's Office (SAO) is authorized to investigate specific acts or allegations of impropriety, malfeasance or nonfeasance in the obligation, expenditure, receipt or use of state funds. If there is a reasonable cause to believe that fraud, waste or abuse has occurred at this agency, it can be reported to the SAO by calling 1-800-892-8348 or at the SAO's website at www.sao.state.tx.us. It can also be reported to the TDCJ Office of the Inspector General at 1-866-372-8329, the TDCJ Internal Audit Division at 1-512-406-5935, or Crime Stoppers at 1-800-832-8477.</p> <p>27. Conflict of Interest</p> <p>Under Section 2155.003, Government Code, a TDCJ employee may not have an interest in, or in any manner be connected with a contract or bid for a purchase of goods or services by an agency of the state; or in any manner, including by rebate or gift, accept or receive from a person to whom a contract may be awarded, directly or indirectly, anything of value or a promise, obligation, or contract for future reward or compensation. Any individual who interacts with public purchasers in any capacity is required to adhere to the guidelines established in Section 1.2 of the State of Texas Procurement Manual, which outlines the ethical standards required of public purchasers, employees, and bidders who interact with public purchasers in the conduct of state business, and with any opinions or rules adopted by the Texas Ethics Commission. Entities who are interested in seeking business opportunities with the State must be mindful of these restrictions when interacting with public purchasers.</p> <p>28. Disclosure of Interested Parties</p> <p>In accordance with Texas Government Code 2252.908, a governmental entity or state agency may not enter into a contract valued at \$1 million dollars or greater with a business entity unless the business entity, in accordance with Texas Administrative Code, Title 1, Part 2, Chapter 46, Rules 46.1, 46.3 and 46.5,</p>
<p>19. Note to Bidder:</p> <p>Any terms and conditions attached to a bid will not be considered unless specifically referred to on this bid form and may result in disqualification of the bid.</p> <p>20. Protest Procedures:</p> <p>Any actual or prospective bidder who is aggrieved in connection with this IFB, evaluation, or award of any contract resulting from this IFB, may formally protest as provided in TDCJ's rules found in Texas Administrative Code, Title 37, Part 6, Chapter 155, Subchapter D, Rule 155.41.</p>	<p>21. Dispute Resolution:</p> <p>Any dispute arising under this Contract that is not disposed of by mutual agreement between the TDCJ and Contractor shall be resolved according to "Procedures for Resolving Contract Claims and Disputes," Rule Section 155.31, Texas Administrative Code, Title 37, Part 6, Chapter 155, Subchapter C.</p> <p>A. If authorized to adjudicate a breach of contract claim against the TDCJ under Chapter 114, Civil Practice and Remedies Code, Contractor, prior to filing suit, shall comply with the dispute resolution process in subsections 155.31(h) – (q) of Rule 155.31 "Procedures for Resolving Contract Claims and Disputes." However, references therein to Chapter 2260 or the State Office of Administrative Hearings shall be inapplicable if contractor files suit under Chapter 114, Civil Practice and Remedies Code, after completion of the dispute resolution process.</p>	<p>22. Texas Public Information Act</p> <p>Notwithstanding any provisions of this IFB to the contrary, bidder understands that TDCJ will comply with the Texas Public Information Act (Chapter 552, Government Code) as interpreted by judicial opinions and opinions of the Attorney General of the State of Texas. Information, documentation, and other material in connection with this solicitation or any resulting contract may be subject to public disclosure pursuant to the Texas Public Information Act. Within three (3) days of receipt, bidder will refer to TDCJ any third party requests, received directly by bidder, for information to which bidder has access as a result of or in the course of performance under any contract resulting from this IFB. Any part of the solicitation response that is of a confidential or proprietary nature must be clearly and prominently marked as such by the bidder.</p> <p>23. Right to Audit</p>
		<p>24. Right to Audit</p>

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submits a disclosure of interested parties to the governmental entity or state agency at the time the business entity submits the signed contract to the governmental entity or state agency.

The disclosure of interested parties must be submitted on a form, and in a manner, prescribed by the Texas Ethics Commission. The Disclosure of Interested Parties Form (Form 1295) and instructions may be found at:

https://www.ethics.state.tx.us/whatsnew/elf_info_for_m1295.htm.

29. Force Majeure:

Neither bidder nor TDCJ shall be liable to the other for any delay in, or failure of performance, of any requirement included in any contract resulting from this IFB caused by force majeure. The existence of such causes of delay or failure shall extend the period of performance until after the causes of delay or failure have been removed provided the non-performing party exercises all reasonable due diligence to perform. Force majeure is defined as acts of God, war, fires, explosions, hurricanes, floods, failure of transportation, or other causes that are beyond the reasonable control of either party and that by exercise of due foresight such party could not reasonably have been expected to avoid, and which, by the exercise of all reasonable due diligence, such party is unable to overcome. Each party must inform the other in writing, with proof of receipt, within three (3) business days of the existence of such force majeure, or otherwise waive this right as a defense.

30. Independent Contractor:

Bidder is and shall remain an independent contractor in relationship to the TDCJ. The TDCJ shall not be responsible for withholding taxes from payments made under any contract resulting from this IFB. Bidder shall have no claim against the TDCJ for vacation pay, sick leave, retirement benefits, social security, worker's compensation, health or disability benefits, unemployment insurance benefits, or employee benefits of any kind.

31. Rights to Data, Documents and Computer Software (State Ownership)

Any software, research, reports, studies, data, photographs, negatives or other documents, drawings or materials prepared by bidder in the performance of its obligations under this contract shall be the exclusive property of the State of Texas and all such materials shall be delivered to the State by the bidder upon completion, termination, or cancellation of this contract. Bidder may, at its own expense, keep copies of all its writings for its personal files. Bidder shall not use, willingly allow, or cause to have such materials used for any purpose other than the performance of bidder's obligations under this contract without the prior written consent of the State; provided, however, that bidder shall be allowed to use non-confidential materials for writing samples in pursuit of the work. The ownership rights described herein shall include, but not be limited to, the right to copy, publish, display, transfer, prepare derivative works, or otherwise use the works.



HUB Subcontracting Plan (HSP)

In accordance with Texas Gov't Code §2161.252, the contracting agency has determined that subcontracting opportunities are probable under this contract. Therefore, all respondents, including State of Texas certified Historically Underutilized Businesses (HUBs) must complete and submit this State of Texas HUB Subcontracting Plan (HSP) with their response to the bid requisition (solicitation).

NOTE: Responses that do not include a completed HSP shall be rejected pursuant to Texas Gov't Code §2161.252(b).

The HUB Program promotes equal business opportunities for economically disadvantaged persons to contract with the State of Texas in accordance with the goals specified in the 2009 State of Texas Disparity Study. The statewide HUB goals defined in 34 Texas Administrative Code (TAC) §20.284 are:

- **11.2 percent for heavy construction other than building contracts,**
- **21.1 percent for all building construction, including general contractors and operative builders' contracts,**
- **32.9 percent for all special trade construction contracts,**
- **23.7 percent for professional services contracts,**
- **26.0 percent for all other services contracts, and**
- **21.1 percent for commodities contracts.**

-- Agency Special Instructions/Additional Requirements --

In accordance with 34 TAC §20.285(d)(1)(D)(iii), a respondent (prime contractor) may demonstrate good faith effort to utilize Texas certified HUBs for its subcontracting opportunities if the total value of the respondent's subcontracts with Texas certified HUBs meets or exceeds the statewide HUB goal or the agency specific HUB goal, whichever is higher. When a respondent uses this method to demonstrate good faith effort, the respondent must identify the HUBs with which it will subcontract. If using existing contracts with Texas certified HUBs to satisfy this requirement, only the aggregate percentage of the contracts expected to be subcontracted to HUBs with which the respondent **does not** have a **continuous contract*** in place for **more than five (5) years** shall qualify for meeting the HUB goal. This limitation is designed to encourage vendor rotation as recommended by the 2009 Texas Disparity Study.

The TDCJ HUB goals are defined as:

- **17.5 percent for heavy construction other than building contracts,**
- **36.9 percent for all building construction, including general contractors and operative builders' contracts,**
- **32.7 percent for all special trade construction contracts,**
- **23.6 percent for professional services contracts,**
- **24.6 percent for all other services contracts, and**
- **21.0 percent for commodities contracts.**

The TDCJ has determined that the HUB Category for this contract falls under the

Special Trade Construction Contracts Category

The HUB Goal for this category is therefore identified as **32.9%**

For assistance in completing the HSP contact:

Sharon Schultz @ 936-437-7026

sharon.schultz@tdcj.texas.gov

SECTION 1: RESPONDENT AND REQUISITION INFORMATION

a. Respondent (Company) Name:	State of Texas VID #:
Point of Contact:	Phone #:
E-mail Address:	Fax #:
b. Is your company a State of Texas certified HUB? <input type="checkbox"/> - Yes <input checked="" type="checkbox"/> - No	
c. Requisition #: IT900086	Bid Open Date: _____ (mm/dd/yyyy)

Enter your company's name here:

Requisition #:

SECTION-2 RESPONDENT's SUBCONTRACTING INTENTIONS

After dividing the contract work into reasonable lots or portions to the extent consistent with prudent industry practices, and taking into consideration the scope of work to be performed under the proposed contract, including all potential subcontracting opportunities, the respondent must determine what portions of work, **including contracted staffing, goods, services will be subcontracted**. Note: In accordance with 34 TAC §20.282, a "Subcontractor" means a person who contracts with a prime contractor to work, to supply commodities, or to contribute toward completing work for a governmental entity.

- a. Check the appropriate box (Yes or No) that identifies your subcontracting intentions:

- Yes, I will be subcontracting portions of the contract. (If Yes, complete Item b of this SECTION and continue to Item c of this SECTION.)

- No, I will not be subcontracting any portion of the contract, and I will be fulfilling the entire contract with my own resources, including employees, goods, services, transportation and delivery. (If No, continue to SECTION 3 and SECTION 4.)

- b. List all the portions of work (subcontracting opportunities) you will subcontract. Also, based on the total value of the contract, identify the percentages of the contract you expect to award to Texas certified HUBs, and the percentage of the contract you expect to award to vendors that are not a Texas certified HUB (i.e., Non-HUB).

Item #	Subcontracting Opportunity Description	HUBs		Non-HUBs
		Percentage of the contract expected to be subcontracted to HUBs with which you <u>do not</u> have a <u>continuous contract*</u> in place for <u>more than five (5) years</u> .	Percentage of the contract expected to be subcontracted to HUBs with which you have a <u>continuous contract*</u> in place for <u>more than five (5) years</u> .	Percentage of the contract expected to be subcontracted to non-HUBs.
1		%	%	%
2		%	%	%
3		%	%	%
4		%	%	%
5		%	%	%
6		%	%	%
7		%	%	%
8		%	%	%
9		%	%	%
10		%	%	%
11		%	%	%
12		%	%	%
13		%	%	%
14		%	%	%
15		%	%	%
Aggregate percentages of the contract expected to be subcontracted:		%	%	%

(Note: If you have more than fifteen subcontracting opportunities, a continuation sheet is available online at <http://comptroller.texas.gov/purchasing/vendor/hub/forms.php>).

- c. Check the appropriate box (Yes or No) that indicates whether you will be using only Texas certified HUBs to perform all of the subcontracting opportunities you listed in SECTION 2, Item b.

- Yes (If Yes, continue to SECTION 4 and complete an "HSP Good Faith Effort - Method A (Attachment A)" for each of the subcontracting opportunities you listed.)

- No (If No, continue to Item d, of this SECTION.)

- d. Check the appropriate box (Yes or No) that indicates whether the aggregate expected percentage of the contract you will subcontract with Texas certified HUBs with which you do not have a continuous contract* in place with for more than five (5) years, meets or exceeds the HUB goal the contracting agency identified on page 1 in the "Agency Special Instructions/Additional Requirements."

- Yes (If Yes, continue to SECTION 4 and complete an "HSP Good Faith Effort - Method A (Attachment A)" for each of the subcontracting opportunities you listed.)

- No (If No, continue to SECTION 4 and complete an "HSP Good Faith Effort - Method B (Attachment B)" for each of the subcontracting opportunities you listed.)

***Continuous Contract:** Any existing written agreement (including any renewals that are exercised) between a prime contractor and a HUB vendor, where the HUB vendor provides the prime contractor with goods or service, to include transportation and delivery under the same contract for a specified period of time. The frequency the HUB vendor is utilized or paid during the term of the contract is not relevant to whether the contract is considered continuous. Two or more contracts that run concurrently or overlap one another for different periods of time are considered by CPA to be individual contracts rather than renewals or extensions to the original contract. In such situations the prime contractor and HUB vendor are entering (have entered) into "new" contracts.

Enter your company's name here: _____

Requisition #: _____

SECTION-3 SELF PERFORMING JUSTIFICATION (If you responded "No" to SECTION 2, Item a, you must complete this SECTION and continue to SECTION

If you responded "No" to SECTION 2, Item a, in the space provided below explain how your company will perform the entire contract with its own employees, supplies, materials and/or equipment, to include transportation and delivery.

SECTION-4 AFFIRMATION

As evidenced by my signature below, I affirm that I am an authorized representative of the respondent listed in SECTION 1, and that the information and supporting documentation submitted with the HSP is true and correct. Respondent understands and agrees that, if awarded any portion of the requisition:

- The respondent will provide notice as soon as practical to all the subcontractors (HUBs and Non-HUBs) of their selection as a subcontractor for the awarded contract. The notice must specify at a minimum the contracting agency's name and its point of contact for the contract, the contract award number, the subcontracting opportunity they (the subcontractor) will perform, the approximate dollar value of the subcontracting opportunity and the expected percentage of the total contract that the subcontracting opportunity represents. A copy of the notice required by this section must also be provided to the contracting agency's point of contact for the contract no later than ten (10) working days after the contract is awarded.
- The respondent must submit monthly compliance reports (Prime Contractor Progress Assessment Report – PAR) to the contracting agency, verifying its compliance with the HSP, including the use of and expenditures made to its subcontractors (HUBs and Non-HUBs). (The PAR is available at <http://www.comptroller.texas.gov/purchasing/docs/hub-forms/ProgressAssessmentReportForm.xls>).
- The respondent must seek approval from the contracting agency prior to making any modifications to its HSP, including the hiring of additional or different subcontractors and the termination of a subcontractor the respondent identified in its HSP. If the HSP is modified without the contracting agency's prior approval, respondent may be subject to any and all enforcement remedies available under the contract or otherwise available by law, up to and including debarment from all state contracting.
- The respondent must, upon request, allow the contracting agency to perform on-site reviews of the company's headquarters and/or work-site where services are being performed and must provide documentation regarding staffing and other resources.

Signature	Printed Name	Title	Date (mm/dd/yyyy)
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Reminder:

- If you responded "Yes" to SECTION 2, Items c or d, you must complete an "HSP Good Faith Effort - Method A (Attachment A)" for each of the subcontracting opportunities you listed in SECTION 2, Item b.
- If you responded "No" SECTION 2, Items c and d, you must complete an "HSP Good Faith Effort - Method B (Attachment B)" for each of the subcontracting opportunities you listed in SECTION 2, Item b.

HSP Good Faith Effort - Method A (Attachment A)

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Enter your company's name here: _____

Requisition #:

IMPORTANT: If you responded "Yes" to **SECTION 2, Items c or d** of the completed HSP form, you must submit a completed "HSP Good Faith Effort - Method A (Attachment A)" for each of the subcontracting opportunities you listed in **SECTION 2, Item b** of the completed HSP form. You may photo-copy this page or download the form at <http://www.comptroller.texas.gov/purchasing/docs/hub-forms/hub-sbcont-plan-qfe-achm-a.pdf>.

SECTION A-1: SUBCONTRACTING OPPORTUNITY

Enter the item number and description of the subcontracting opportunity you listed in SECTION 2, Item b, of the completed HSP form for which you are completing the attachment.

Item Number: _____ **Description:** _____

SECTION A-2: SUBCONTRACTOR SELECTION

List the subcontractor(s) you selected to perform the subcontracting opportunity you listed above in **SECTION A-1**. Also identify whether they are a Texas certified HUB and their Texas Vendor Identification (VID) Number or federal Employer Identification, the approximate dollar value of the work to be subcontracted, and the expected percentage of work to be subcontracted. When searching for Texas certified HUBs and verifying their HUB status ensure that you use the State of Texas' Centralized Master Bidders List (CMBL) - Historically Underutilized Business (HUB) Directory Search located at <http://mycpa.cpa.state.tx.us/tpasscmblsearch/index.jsp>. HUB status code "A" signifies that the company is a Texas certified HUB.

REMINDER: As specified in SECTION 4 of the completed HSP form, if you (respondent) are awarded any portion of the requisition, you are required to provide notice as soon as practical to all the subcontractors (HUBs and Non-HUBs) of their selection as a subcontractor. The notice must specify at a minimum the contracting agency's name and its point of contact for the contract, the contract award number, the subcontracting opportunity they (the subcontractor) will perform, the approximate dollar value of the subcontracting opportunity and the expected percentage of the total contract that the subcontracting opportunity represents. A copy of the notice required by this section must also be provided to the contracting agency's point of contact for the contract no later than ten ('10) working days after the contract is awarded.

HSP Good Faith Effort - Method B (Attachment B)

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Enter your company's name here: _____

Requisition #: _____

IMPORTANT: If you responded "No" to SECTION 2, Items c and d of the completed HSP form, you must submit a completed "HSP Good Faith Effort - Method B (Attachment B)" for each of the subcontracting opportunities you listed in SECTION 2, Item b of the completed HSP form. You may photo-copy this page or download the form at <http://www.comptroller.texas.gov/purchasing/docs/hub-forms/hub-sbcont-plan-gfe-achm-b.pdf>.

SECTION B-1: SUBCONTRACTING OPPORTUNITY

Enter the item number and description of the subcontracting opportunity you listed in SECTION 2, Item b, of the completed HSP form for which you are completing the attachment.

Item Number: _____ Description: _____

SECTION B-2: MENTOR PROTÉGÉ PROGRAM

If respondent is participating as a Mentor in a State of Texas Mentor Protégé Program, submitting its Protégé (Protégé must be a State of Texas certified HUB) as a subcontractor to perform the subcontracting opportunity listed in SECTION B-1, constitutes a good faith effort to subcontract with a Texas certified HUB towards that specific portion of work.

Check the appropriate box (Yes or No) that indicates whether you will be subcontracting the portion of work you listed in SECTION B-1 to your Protégé.

- Yes (If Yes, continue to SECTION B-4.)
 - No / Not Applicable (If No or Not Applicable, continue to SECTION B-3 and SECTION B-4.)

SECTION B-3: NOTIFICATION OF SUBCONTRACTING OPPORTUNITY

When completing this section you MUST comply with items a, b, c and d, thereby demonstrating your Good Faith Effort of having notified Texas certified HUBs and trade organizations or development centers about the subcontracting opportunity you listed in SECTION B-1. Your notice should include the scope of work, information regarding the location to review plans and specifications, bonding and insurance requirements, required qualifications, and identify a contact person. When sending notice of your subcontracting opportunity, you are encouraged to use the attached HUB Subcontracting Opportunity Notice form, which is also available online at <http://www.comptroller.texas.gov/purchasing/docs/hub-forms/HUBSubcontractingOpportunityNotificationForm.pdf>.

Retain supporting documentation (i.e., certified letter, fax, e-mail) demonstrating evidence of your good faith effort to notify the Texas certified HUBs and trade organizations or development centers. Also, be mindful that a working day is considered a normal business day of a state agency, not including weekends, federal or state holidays, or days the agency is declared closed by its executive officer. The initial day the subcontracting opportunity notice is sent/provided to the HUBs and to the trade organizations or development centers is considered to be "day zero" and does not count as one of the seven (7) working days.

- a. Provide written notification of the subcontracting opportunity you listed in SECTION B-1, to three (3) or more Texas certified HUBs. Unless the contracting agency specified a different time period, you must allow the HUBs at least seven (7) working days to respond to the notice prior to you submitting your bid response to the contracting agency. When searching for Texas certified HUBs, ensure that you use the State of Texas' Centralized Master Bidders List (CMLB) and Historically Underutilized Business (HUB) Search directory located at <http://mycpa.cpa.state.tx.us/tpasscmlsearch/index.jsp>. HUB Status code "A" signifies that the company is a Texas certified HUB.
- b. List the three (3) Texas certified HUBs you notified regarding the subcontracting opportunity you listed in SECTION B-1. Include the company's Vendor ID (VID) number, the date you sent notice to that company, and indicate whether it was responsive or non-responsive to your subcontracting opportunity notice.

Company Name	Texas VID (Do not enter Social Security Numbers.)	Date Notice Sent (mm/dd/yyyy)	Did the HUB Respond?
			<input type="radio"/> - Yes <input type="radio"/> - No
			<input type="radio"/> - Yes <input type="radio"/> - No
			<input type="radio"/> - Yes <input type="radio"/> - No

- c. Provide written notification of the subcontracting opportunity you listed in SECTION B-1 to two (2) or more trade organizations or development centers in Texas to assist in identifying potential HUBs by disseminating the subcontracting opportunity to their members/participants. Unless the contracting agency specified a different time period, you must provide your subcontracting opportunity notice to trade organizations or development centers at least seven (7) working days prior to submitting your bid response to the contracting agency. A list of trade organizations and development centers that have expressed an interest in receiving notices of subcontracting opportunities is available on the Statewide HUB Program's webpage at <http://www.comptroller.texas.gov/purchasing/vendor/hub/resources.php>.
- d. List two (2) trade organizations or development centers you notified regarding the subcontracting opportunity you listed in SECTION B-1. Include the date when you sent notice to it and indicate if it accepted or rejected your notice.

Trade Organizations or Development Centers	Date Notice Sent (mm/dd/yyyy)	Was the Notice Accepted?
		<input type="radio"/> - Yes <input type="radio"/> - No
		<input type="radio"/> - Yes <input type="radio"/> - No

HSP Good Faith Effort - Method B (Attachment B) Cont.

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Enter your company's name here:

Requisition #:

SECTION B-4: SUBCONTRACTOR SELECTION

Enter the item number and description of the subcontracting opportunity you listed in **SECTION 2, Item b**, of the completed HSP form for which you are completing the attachment.

- a. Enter the item number and description of the subcontracting opportunity for which you are completing this Attachment B continuation page.

Item Number: **Description:**

- b. List the subcontractor(s) you selected to perform the subcontracting opportunity you listed above in SECTION B-1. Also identify whether they are a Texas certified HUB and their Texas Vendor Identification (VID) Number or federal Employer Identification, the approximate dollar value of the work to be subcontracted, and the expected percentage of work to be subcontracted. When searching for Texas certified HUBs and verifying their HUB status ensure that you use the State of Texas' Centralized Master Bidders List (CMBL) - Historically Underutilized Business (HUB) Directory Search located <http://mycpa.cpa.state.tx.us/lpasscmblsearch/index.jsp>. HUB status code "A" signifies that the company is a Texas certified HUB.

- c. If any of the subcontractors you have selected to perform the subcontracting opportunity you listed in **SECTION B-1** is not a Texas certified HUB, provide written justification for your selection process (attach additional page if necessary):

REMINDER: As specified in SECTION 4 of the completed HSP form, if you (respondent) are awarded any portion of the requisition, you are required to provide notice as soon as practical to all the subcontractors (HUBs and Non-HUBs) of their selection as a subcontractor. The notice must specify at a minimum the contracting agency's name and its point of contact for the contract, the contract award number, the subcontracting opportunity it (the subcontractor) will perform, the approximate dollar value of the subcontracting opportunity and the expected percentage of the total contract that the subcontracting opportunity represents. A copy of the notice required by this section must also be provided to the contracting agency's point of contact for the contract no later than ten (10) working days after the contract is awarded.



HUB Subcontracting Opportunity Notification Form

In accordance with Texas Gov't Code, Chapter 2161, each state agency that considers entering into a contract with an expected value of \$100,000 or more shall, before the agency solicits bids, proposals, offers, or other applicable expressions of interest, determine whether subcontracting opportunities are probable under the contract. The state agency I have identified below in **Section B** has determined that subcontracting opportunities are probable under the requisition to which my company will be responding.

34 Texas Administrative Code, §20.285 requires all respondents (prime contractors) bidding on the contract to provide notice of each of their subcontracting opportunities to at least three (3) Texas certified HUBs (who work within the respective industry applicable to the subcontracting opportunity), and allow the HUBs at least seven (7) working days to respond to the notice prior to the respondent submitting its bid response to the contracting agency. In addition, at least seven (7) working days prior to submitting its bid response to the contracting agency, the respondent must provide notice of each of its subcontracting opportunities to two (2) or more trade organizations or development centers (in Texas) that serves members of groups (i.e., Asian Pacific American, Black American, Hispanic American, Native American, Woman, Service Disabled Veteran) identified in Texas Administrative Code, §20.282(19)(C).

We respectfully request that vendors interested in bidding on the subcontracting opportunity scope of work identified in **Section C, Item 2**, reply no later than the date and time identified in **Section C, Item 1**. Submit your response to the point-of-contact referenced in **Section A**.

SECTION A: PRIME CONTRACTOR'S INFORMATION

Company Name: _____ State of Texas VID #: _____
 Point-of-Contact: _____ Phone #: _____
 E-mail Address: _____ Fax #: _____

SECTION B: CONTRACTING STATE AGENCY AND REQUISITION INFORMATION

Agency Name: _____
 Point-of-Contact: _____ Phone #: _____
 Requisition #: _____ Bid Open Date: _____
 (mm/dd/yyyy)

SECTION C: SUBCONTRACTING OPPORTUNITY RESPONSE DUE DATE, DESCRIPTION, REQUIREMENTS AND RELATED INFORMATION

1. Potential Subcontractor's Bid Response Due Date:

If you would like for our company to consider your company's bid for the subcontracting opportunity identified below in Item 2,
 we must receive your bid response no later than _____ on _____.

Central Time

Date (mm/dd/yyyy)

In accordance with 34 TAC §20.285, each notice of subcontracting opportunity shall be provided to at least three (3) Texas certified HUBs, and allow the HUBs at least seven (7) working days to respond to the notice prior to submitting our bid response to the contracting agency. In addition, at least seven (7) working days prior to us submitting our bid response to the contracting agency, we must provide notice of each of our subcontracting opportunities to two (2) or more trade organizations or development centers (in Texas) that serves members of groups (i.e., Asian Pacific American, Black American, Hispanic American, Native American, Woman, Service Disabled Veteran) identified in Texas Administrative Code, §20.282(19)(C).

(A working day is considered a normal business day of a state agency, not including weekends, federal or state holidays, or days the agency is declared closed by its executive officer. The initial day the subcontracting opportunity notice is sent/provided to the HUBs and to the trade organizations or development centers is considered to be "day zero" and does not count as one of the seven (7) working days.)

2. Subcontracting Opportunity Scope of Work:

3. Required Qualifications:

- Not Applicable

4. Bonding/Insurance Requirements:

- Not Applicable

5. Location to review plans/specifications:

- Not Applicable



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HUB Subcontracting Plan (HSP)

Prime Contractor Progress Assessment Report

This form must be completed and submitted to the contracting agency each month to document compliance with your HSP.

Contract/Requisition Number:

Date of Award:

Object Code:

(Agency Use
Only)

**Contracting Agency/University
Name:**

Texas Department of Criminal Justice

Contract Administrator Name:

Contractor (Company) Name:

State of Texas VID #:

Point of Contact:

Phone #:

Reporting (Month) Period:

Total Amount Paid this Reporting Period to Contractor: \$

Report HUB *and* Non-HUB subcontractor information

***Note: Texas certified HUB status can be verified on line at: <https://mycpa.cpa.state.tx.us/tipasscmbl/search/index.jsp>**

Signature: _____

Title: _____

Date: _____

TRADE ORGANIZATIONS/DEVELOPMENT CENTERS

ORGANIZATION	MAILING ADDRESS	PHONE	FAX	EMAIL
Asian Contractor Association	4201 Ed Bluestein Blvd., Austin, TX 78721	512-926-5400	512-926-5410	asiancontractor@gmail.com
Black Contractors Association – Dallas/Fort Worth	1409 S. Lamar Street, Suite 251, Dallas, TX 75215	214-485-0483	214-485-0467	rwashington@blackcontractors.org
Dallas Black Chamber of Commerce	2838 Martin Luther King Jr. Boulevard, Dallas, TX 75215	214-421-5200	214-421-5510	chum@dbcc.org
DFW Minority Supplier Development Council	8828 N Stemmons Fwy, 5th Floor, Suite 550, Dallas, TX 75247	214-630-0747	214-637-2241	construction@dfwmsdc.com
Dallas Hispanic Chamber of Commerce	4622 Maple Avenue, Suite 207, Dallas, TX 75219	214-521-6007	214-520-1687	gquezada.gchcc.com
Del Mar College PTAC, Corpus Christi Black C of C	101 Baldwin Blvd., CGD-146, Corpus Christi, TX 78404	361-698-1025	361-698-1024	ptac@delmar.edu
El Paso Hispanic Chamber of Commerce	2401 E. Missouri, El Paso, TX 79903	915-566-4066	915-566-9714	treed@elpasombdcenter.com
Fort Worth Metropolitan Black Chamber of Commerce	1150 South Freeway, Suite 211, Fort Worth, TX 76104	817-871-6538	817-332-6438	bbolden@fwmbcc.org
Golden Triangle Minority Business Council	PO Box 5064, Beaumont, TX 77726-5064	409-962-8530	409-722-5402	hatcher.beverly@gtnmc.com
Greater Asian Chamber of Commerce	8001 Centre Park Dr. Suite 160, Austin, TX 78754	512-407-8240		Exec.Admin@AustinAsianChamber.org
Greater Austin Black Chamber	912 E. 11th Street, Suite A, Austin, TX 78702	512-459-1181	512-459-1183	nmc@austinmbcc.org
Greater Houston Business Procurement Forum	17071/2 South Post Oak Blvd., PMB 273, Houston, TX 77056	832-216-2185	713-436-8333	miltonthibodeaux@gmail.com
Hispanic Contractors Association - Houston	7 Parker Road, Houston, TX 77076	832-883-5078		randymagdaleno@yahoo.com
Hispanic Contractors Association -San Antonio	800 Quintana Road. # 333 San Antonio, TX 78211	210-444-1100	210-444-1101	admin@hcadesa.org
Hispanic Contractors Association – Regional	2210 W. Illinois Avenue, Dallas, TX 75224-1636	972-786-0909	972-786-0910	yolanda@regionalhca.org
Houston Hispanic Chamber of Commerce	1801 Main Street, Suite 890, Houston, TX 77002	713-644-7070	713-644-7377	mzarate@houstonhispanicchamber.com
Houston Minority Supplier Development Council	Three Riverway, Suite 555, Houston, TX 77056	713-271-7805	713-271-9770	angela.freeman@hmsdc.org
National Assoc. of Minority Contractors Inc –Houston	3825 Dacoma St., Houston, TX 77092	713-843-3791	713-843-3777	info@namctexas.org
San Antonio Hispanic Chamber of Commerce	200 East Grayson, Suite 203, San Antonio, TX 78215	210-225-0462	210-225-2485	poletf@sahcc.org
Southwest Minority Supplier Development Council	912 Bastrop Highway, Suite. 101, Austin, TX 78741	512-386-8766	512-386-8988	smsdc@smsdc.org
	4100 NW Loop 410 Suite 230, San Antonio, TX 78229	512-659-2160		xenia@smsdc.org
Texas Assoc. of African American Chambers of Commerce (TAAACC)	P.O. Box 13064, Austin, TX 78711-3064	512-535-5610		taaaccl79@yahoo.com
Texas Association of Mexican American Chambers of Commerce (TAMACC)	P.O. Box 41780, Austin, TX 78704	512-444-5727		panton@tamacc.org
Tri-County Black Chamber of Commerce	P.O. Box 88376, Houston, TX 77288	832-875-3977	281-336-0870	procurement@tcbcc.org
U.S. Hispanic Contractors Association de Austin	920 E. Dean Keeton, Austin, TX 78705	512-922-0507		info@ushca-austin.com
U.S. Pan Asian American Chamber of Commerce SW	202 E. Border Street, Suite 144, Arlington, TX 76010	682-367-1393	817-469-9485	gmcdermott@uspaacc-sw.org
Women's Business Council - Southwest	2201 North Collins, Suite 158, Arlington, TX 76011	817-299-0566	817-299-0949	asteelle@wbcswest.org
Women's Business Enterprise Alliance (WBEA)	9800 NW Fwy, Suite 120, Houston, TX 77092	713-681-9232	713-681-9242	bids@wbea-texas.org
Women Contractors Association (WCA)	P.O. Box 70966, Houston, TX 77270	713-807-9977	713-807-9917	director@womencontractors.org

*Texas Department of Criminal Justice
Updated – June 2017*



HUB Subcontracting Plan (HSP)

QUICK CHECKLIST

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While this HSP Quick Checklist is being provided to merely assist you in readily identifying the sections of the HSP form that you will need to complete, it is very important that you adhere to the instructions in the HSP form and instructions provided by the contracting agency.

- If you will be awarding all of the subcontracting work you have to offer under the contract to only Texas certified HUB vendors, complete:
 - Section 1 - Respondent and Requisition Information
 - Section 2a. - Yes, I will be subcontracting portions of the contract.
 - Section 2b. - List all the portions of work you will subcontract, and indicate the percentage of the contract you expect to award to Texas certified HUB vendors.
 - Section 2c. - Yes
 - Section 4-Affirmation
 - GFE Method A (Attachment A) - Complete an Attachment A for each of the subcontracting opportunities you listed in Section 2b.
- If you will be subcontracting any portion of the contract to Texas certified HUB vendors and Non-HUB vendors, and the aggregate percentage of all the subcontracting work you will be awarding to the Texas certified HUB vendors with which you do not have a continuous contract* in place for more than five (5) years meets or exceeds the HUB Goal the contracting agency identified in the "Agency Special Instructions/Additional Requirements", complete:
 - Section 1 - Respondent and Requisition Information
 - Section 2a. - Yes, I will be subcontracting portions of the contract.
 - Section 2b. - List all the portions of work you will subcontract, and indicate the percentage of the contract you expect to award to Texas certified HUB vendors and Non-HUB vendors.
 - Section 2c. - No
 - Section 2d. - Yes
 - Section 4-Affirmation
 - GFE Method A (Attachment A) - Complete an Attachment A for each of the subcontracting opportunities you listed in Section 2b.
- If you will be subcontracting any portion of the contract to Texas certified HUB vendors and Non-HUB vendors or only to Non-HUB vendors, and the aggregate percentage of all the subcontracting work you will be awarding to the Texas certified HUB vendors with which you do not have a continuous contract* in place for more than five (5) years does not meet or exceed the HUB Goal the contracting agency identified in the "Agency Special Instructions/Additional Requirements", complete:
 - Section 1 - Respondent and Requisition Information
 - Section 2a. - Yes, I will be subcontracting portions of the contract.
 - Section 2b. - List all the portions of work you will subcontract, and indicate the percentage of the contract you expect to award to Texas certified HUB vendors and Non-HUB vendors.
 - Section 2c. - No
 - Section 2d. - No
 - Section 4-Affirmation
 - GFE Method B (Attachment B) - Complete an Attachment B for each of the subcontracting opportunities you listed in Section 2b.
- If you will not be subcontracting any portion of the contract and will be fulfilling the entire contract with your own resources (i.e., employees, supplies, materials and/or equipment, including transportation and delivery), complete:
 - Section 1 - Respondent and Requisition Information
 - Section 2a. - No, I will not be subcontracting any portion of the contract, and I will be fulfilling the entire contract with my own resources.
 - Section 3 - Self Performing Justification
 - Section 4 - Affirmation

***Continuous Contract:** Any existing written agreement (including any renewals that are exercised) between a prime contractor and a HUB vendor, where the HUB vendor provides the prime contractor with goods or service, to include transportation and delivery under the same contract for a specified period of time. The frequency the HUB vendor is utilized or paid during the term of the contract is not relevant to whether the contract is considered continuous. Two or more contracts that run concurrently or overlap one another for different periods of time are considered by CPA to be individual contracts rather than renewals or extensions to the original contract. In such situations the prime contractor and HUB vendor are entering (have entered) into "new" contracts.

BECKETT ELECTRICAL SERVICES, L.L.C.	Maureen Beckett	AUSTIN	maureen@beckettelectrical.com	512-346-7462	512-231-0151	Electrical contractor with 75 employees capable of performing installations up to \$2 million. Very familiar with large tenant finish outs.
BENMAR ELECTRIC, LLC	BENITO MARTINEZ	MCALLEN	BENMAR@BENMARELECTRIC.COM	956-631-9995	956-631-9996	Electrical contractor - Commercial service and new construction.
BESTWAY HEATING & AIR	Brandon Burton	DALLAS	bestway2012@outlook.com	214-315-4240		Provide service install and repair of air conditioning systems.
BFP COMPANY	Peggy Osburn	ALEDO	posburn@BFPLLC.net	817-925-6171	817-594-5654	HVAC,air conditioning,heating and refrigeration wholesale distributor.We have parts,pieces,equipment and supplies to support all of your new construction, retro-fit or repairs in HVAC industry.Rooftop units go to 25 ton. Ice machine filtration
BLUE STAR ELECTRIC, LLC	SALLY L. WALKER	ARLINGTON	BLUESTARELECT@AOL.COM	817-253-7513	817-561-2812	Sale of Electrical and Mechanical Equipment and Material
BOYD REFRIGERATION, LLC	Boyd Krcha	PFLUGERVILLE	boyd@boydrefrigeration.com	512-832-9235	512-832-0228	Our company specializes in the installation and service of commercial refrigeration systems, HVAC, ice machines, and cooking equipment.
BRALY BUILDERS SUPPLY COMPANY, INC.	Vicki Braly	PALESTINE	vickibraly@embarqmail.com	903-723-2179	903-723-5789	retail hardware, lumber, doors, windows, floor covering, etc. also, provide professional floor covering installation.
BRENDA TORGAN, INC.	Donna Harness	HOUSTON	dharness@houstonnorth.com	713-265-4279	281-271-8167	Mechanical HVAC/ Refrigeration/ Electrical Chambers/ EMS Contractor
BRETT CONSTRUCTION COMPANY	Brett Johnson	HICO	shaye@brettconstruction.net	254-796-4817	254-796-4823	Heavy Equipment (Earth Moving, Site Preparation)and Utility (Site Services and Undergrounds)
BRIDGES ELECTRIC, INC.	President/Hollis J. Bridges	MESQUITE	bridgeselectricinc@sbcglobal.net	972-686-8100	972-686-8101	ELECTRICAL CONTRACTOR
BRIONES UTILITY COMPANY, LLC	Alfredo A. Briones	SAN ANTONIO	alfredoabriones@hotmail.com	210-687-0500	210-662-7865	Install wet underground utilities, storm water drain, swere lines, water mains and water mains extensions and excavations

BRIZO CONSTRUCTION, LLC	Natasha Lee	SANTA FE	estimating@brizoconstruction.com	409-750-3820		General Contractor specializing single and multi family residential disaster recovery construction and costal and waterway rehabilitation.
BRJ PAVING, INCORPORATED	BARBARA JONES	BURLESON	BARBARA@BRJPAVING.COM	817-478-0927	817-478-1672	SITE EXCAVATION, CONCRETE & ASPHALT PAVING INSTALLATION, SITE DEMOLITION, SOIL STABILIZATION.
BRYANT ELECTRIC, INC.	Terry Bader	SAN ANGELO	t.bader@bryelec.com	325-658-8485	325-653-2434	Electrical Contracting
BUCHANAN GENERAL STORE	MAUREEN EACHUS	BURNET	buchanangeneralstore@gmail.com	512-793-6600	512-793-6615	HARDWARE;PLUMBING;ELECTRICAL;GARDEN SUPPLIES (GENERAL STORE)
BULLCHASE, INC.	Marianne Galea	CEDAR PARK	marianne@bullchase.com	888-558-2855	888-531-2929	of Maintenance, Repair & Operations (MRO) products. Hauling services provided by dump truck, transport road construction aggregates, landscaping materials, demolition haul off.
BY TRUCK INC	Jeff Scott Jr	ARLINGTON	bytruck-corp@usa.net	817-455-6333	817-516-1866	aggregates, landscaping materials, demolition haul off.
C & C ALCOSER TRUCKING	Cristoval Alcoser	SAN ANTONIO	alcosertrucking@sbcglobal.net	210-771-5458	210-599-1197	Trucking Hauling-Earth Materials
C.D.S. MECHANICAL, INC.	SYLVIA JIMENEZ	SAN ANTONIO	sylvia@airsystemsac.com	210-738-2665	210-738-2668	We sell, service and install air conditioning, heating, and refrigeration
CALTIA CONSTRUCTION, LLC	Raul A. Perez	MISSION	raul@caltiaconstruction.com	956-522-7918	210-568-6759	General Contractor - commercial, residential, utility and industrial.
CAMACHO DEMOLITION LLC	Julian Camacho	CORPUS CHRISTI	julian@camachorecycling.net	361-289-1095	361-882-1944	Asbestos and Lead Abatement, Mold Remediation and Demolition Services
CARRIES' CONNECTIONS, INC.	Carrie Ann Moore	FORT WORTH	carriemoore@gotbigfreight.com	214-473-4045	214-723-7659	multiple modes of transportation and freight services which include LTL, Truckload, Intermodal, Expedite & Airfreight, International Ocean Import and Export, Pool Distribution, Kitting Operations & White Glove Services.
CBS MECHANICAL SERVICES, INC.	Israel Caballero	DENTON	israel@cbsmechanicalservices.com	940-383-4357	940-383-8713	HVAC (heating, ventilation and air-conditioning) contractors" Plumbing
CCT SUPPLY	Nancy Thomas	CORPUS CHRISTI	cctsupPLYelectrical@gmail.com	361-993-3567	361-334-0379	Electrical supplies, cables and wires, ballasts, bulbs & fixtures, circuit breakers, generators, all lamps, fixtures, poles, lighted signs, lighting controls, complete lighting systems, batteries

CECO SALES CORPORATION	Tom Bounds	FORT WORTH	tom@cecosales.com	817-429-1866	817-332-5103	INDUSTRIAL AND PERSONAL SERVICE PAPER WHOLESALERS
CEDAR BEETLE INC.	Katy Yaklin	LEAKEY	katyj26@hotmail.com	830-232-5820	830-232-5820	Right of way services including clearing, environmental work, gates, roads and culverts. All types of land clearing including dozing, mulching, tub grinding, hand cutting, etc. Excavation services including lake and pond construction
CENTRAL TEXAS HAULING	Javier Rodriguez	PEARLAND	cthpearland@aol.com	281-485-0849	281-485-0849	Tandem Truck - Earth Hauling
CHAMBERLIN SERVICES, LLC	Jocelyn R Chamberlin	FLOWER MOUND	jocelyn@ChamberlinServicesLLC.com	972-415-2332	972-539-2223	Technology Consulting, Technology, Technology Infrastructure Implementation and Design.
CHANGING SEASONS A/C & ELECTRIC	Saul T Segura	DEER PARK	ssegura@changingseasonsac.com	281-635-1303	281-872-7159	Air Conditioning Contractor, Electrical Contractor, Building Automation, Commercial Refrigeration, Commercial Kitchen Ventillation
CHT SERVICES, LLC	Jennifer Weedon	NORMANGEE	jweedon73@gmail.com	936-396-6017	936-396-6017	Distributor of mechanical, electrical, plumbing, building construction materials, products, parts, and services.
CLEAN AIR REMEDIATION ENVIRONMENTAL	Sylvester White	MESQUITE	caresweclean@att.net	214-324-1080	214-324-7572	Asbestos Abatement Removal and Demolition
CLEANING SOLUTIONS, INC.	WILLIE THORTON	ROWLETT	thorntn@airmail.net	972-412-2949	972-412-4927	coverings, Electrical, HVAC, Irrigation, Plumbing, Janitorial, & Safety Supplies, Kitchen/Bath Materials, Lighting, Lumber/Bldg Mtrls, Material Handling/Storage equipment, Hand Tools, Hardware, Power Tools.
COASTLINE REFRIGERATION & SERVICE, LLC	Moses DeAlejandro	CORPUS CHRISTI	mdealejandro@coastlinerefrigeration.com	361-445-4511	361-855-4511	Maintenance, Service and Installation of commercial and industrial refrigeration and HVAC systems.
COLAIR, INC.	Ruben Sanchez	MISSION	sales@colairinc.com	956-271-8124	956-581-6217	Company is a certified class "A" licensed HVAC/Mechanical contractor. Main business interests are commercial mechanical contracting, residential air conditioning installer, commercial & residential service & repair, and refrigeration contractor.

COMPLETE EFFICIENCY SERVICES, INC.	Nikki Blake	ABLIENE	nblake@completeefficiencyservices.com	325-672-8480	888-482-6035	We do spray foam insulation, spray foam roofing, attic insulation, wall insulation, insulation removal, solar screens, install windows, doors, HVAC systems and performing regular maintenance.
CONCEPT FACILITY SERVICES, LLC	Clifford Freeney	DUNCANVILLE	freeney@conceptsvcs.com	972-298-8300	972-298-8305	Plumbing, Heating, and Air-Conditioning Contractors
COSSELMON MECHANICAL LLC	Ranora Cosselmon	AMARILLO	ranora@cmamarillo.com	806-381-0180	806-381-2828	We provide service and installation for Plumbing, Heating and Air Conditioning for residential, commercial and industrial. We perform remodels and new construction as well. We offer Carrier and ICP units. We are able to work on most all HVAC units.
COVENANT A /C & HEATING	Michael Chattman	HOUSTON	tgtinc@yahoo.com	281-702-2238	281-586-9115	Sale, service & installation of a/c & heating equipment.
CRAGG'S DO IT BEST LUMBER AND	Douglas Cragg	SPRING BRANCH	craggsdib@gvtc.com	830-438-4732	830-438-4785	Building materials, hardware,electrical,plumbing,paint,houswares,lawn and garden supplies. Equipment rental.
CT WALKER LLC	CASSANDRA WALKER	AUSTIN	ct.walker@austin.rr.com	512-300-3080	512-233-2708	General contractor, site work, concrete, utilities, fencing, landscaping, demolition, drywall, roofing, painting, construction management, material and equipment suppliers
CUSTOM WELDING AND METAL FABRICATION	Micah Garza	BRYAN	anglertx23m@yahoo.com	979-224-4400		Concrete, Metal Buildings, Land Clearing, Fence building, Earth Work.
CONTRACTORS, INC.	Nancy Burton	TYLER	nancy@cwoodscompany.com	903-593-0246	903-593-2399	Air Conditioning and Plumbing.
D. GRIMM, INC.	Dawn Mallard	WILLIS	bids@dgrimminc.com	936-228-7802	936-228-2974	Site preparation, earth work, foundation installation, erosion control, Right of Way Clearing and Maintenance, foundation installation, pad installation, clearing and grubbing
D.E.R. TRUCKING, LLC	RAY, DERRICK	PALMER	DEERTRUCKINGLLC@YAHOO.COM	972-228-4615	972-228-4615	HAULING HVAC - Heating & Air Conditioning
DAGAR MECHANICAL, INC.	David Garcia	CARROLLTON	dgarcia@dagarair.com	972-200-7121	972-239-2106	Service, repair and Installation

DALE JOSEPH REEVES DBA ENCORE MECHANICAL	Dale J. Reeves	AUSTIN	tammi@encoremech.com	512-339-3012	512-339-3148	Install HVAC systems, ductwork, sheetmetal, all appurtenances.
DANNY SANDER CONSTRUCTION, INC.	SHAWN SANDER	EL PASO	shawn@dannysander.com	915-857-0695	915-857-2766	UTILITY CONSTRUCTION, BORES, DIRT WORK, EXCAVATION, ASPHALT & CONCRETE
DAVID'S QUALITY ELECTRIC INCORPORATED	David Elizalde	AMARILLO	info@dqenet.com	806-373-9397	806-373-9384	Electrical Contractor, General Contractor, Construction, Remodels, Renovations
DAYSTAR ELECTRI-COMM, INC.	Terry Arnold	TYLER	terry@daystar-electric.com	903-534-5850	903-534-5839	Electrical Contractors - Commercial/Industrial, Generator Systems
DECENT CONSTRUCTION COMPANY, INC	SYED HASHMI	PLANO	construction.decent@gmail.com	214-846-5113		General Contracting, Project Management, Site Work, Concrete, Masonry, MEP, Damp Proofing, Caulking, Sealing, Fire Safing and Selective Demolition
DELARIVA, INC DBA ART'S ELECTRIC	Arturo Delariva, Sr.	EL PASO	art@artselectric.net	915-755-5832	915-751-2361	PROVIDE ALL ELECTRICAL SERVICE FOR RESIDENTIAL AND COMMERCIAL
DELTA AIR CONDITIONING, INC.	CRIS CORONA	MCALLEN	CRIS@DELTaac.NET	956-583-3582	956-583-3580	HVAC SALES & SERVICE
DEPENDABLE HEATING & AIR CONDITIONING,	Raul Munoz	CORPUS CHRISTI	depairehvac@aol.com	361-857-7100		Heating and air conditioning services, equipment installations and sales for residential and commercial.
DFW LINQ TRANSPORT, INC.	Hector Dayer	IRVING	ldayer@linqtransport.com	972-522-1500	972-573-4238	General Freight Trucking, Long-Distance, Truckload
DIRECT SERVICE COMPANY	Letitia Pevhouse	WAXAHACHIE	directservicecom@aol.com	972-617-9977	972-617-1699	- all aspects including reha and new construction; small split systems to large chiller systems.
DISTRIBRAIRE, INC.	Mark E. Sacra	HOUSTON	msacra@distribaire.com	713-266-1761	713-781-6532	Air Conditioning Supplier
DIVISION 16 CONSTRUCTION CORPORATION	JUAN HERNANDEZ	CORPUS CHRISTI	juan@division16construction.com	361-241-8888	361-241-8889	All phases of Electrical Construction & GENERAL CONSTRUCTION
DK WINSHIP COMPANY, LLC	Darla K. Winship	CORPUS CHRISTI	winshipco@aol.com	361-241-6233	361-241-6233	General Construction. All interior construction finishes.
DMJ MECHANICAL, INC.	David Martinez	FORT WORTH	dmjmechanical@att.net	817-924-0100	817-924-0100	Plumbing and HVAC Construction.
DMS SALES & SERVICES, LLC	Diane M. Sutton	RICHMOND	dianemmarek@gmail.com	281-723-2216		Air conditioning, Heating, and Cooling Services and Products.
DNA TRUCKING, INC.	Arthur Pena	HOUSTON	dnatrucking@yahoo.com	281-650-5518	281-558-5427	Dump Truck Hauling Service
DOMINGUEZ SHEET METAL WORKS INC	FRANK DOMINGUEZ	EL PASO	dmzshmtl@elp.rr.com	915-542-1875	915-545-1813	GENERAL SHEETMETAL, HEATING, COOLING & STAINLESS STEEL FABRICATIONS,

DOMINION AIR & HEAT, L.L.C.	Heather C. Kelly	HOUSTON	heather@dominionairandheat.com	281-459-4400	281-459-4300	HVAC-Heating, Ventilation, Air Conditioning, Sales, Service, Installation, Commercial, Industrial, Residential
DS DELIVERY SERVICES	Steve Martinez	HOUSTON	Ds.deliveryservices@hotmail.com	281-844-8563		Delivery and transportations of general freight.
DSWOODS TRUCKING LLC	Diane Woods	MIDLAND	dwoods713@sbcglobal.net	432-978-4208	432-570-6168	We provide trucking and logistic services and hazmat services.
DYAMI DEVELOPMENT LLC	LLOYD GRAHAM HANLEY III	HOUSTON	LLOYD.HANLEY@DYAMIDEVELOPMENT.COM	713-681-4285		General contracting: HVAC; MEP; Centrifugal; Building control systems; Refrigeration & chillers water systems; Air handlers; Exhaust & smoke ventilation; Tenant Build-out.
EAGLE REMEDIATION AND DEMO SERVICES, LLC	Mark Anderson	AZLE	mark.anderson@eremservices.com	214-884-2096	682-302-0148	ASBESTOS & LEAD ABATEMENT DEMOLITION ASSET RECOVERY MOLD REMEDIATION IAQ SERVICES DISASTER RESPONSE SUPPORT & STAFFING SELECT DEMOLITION & GREEN DEMOLITION DECONTAMINATION CONSTRUCTION MANAGEMENT
EASY RECYCLING AND SALVAGE, INC.	Diane Ferrara	FLOWER MOUND	diane.ferrara@easyrecycling.com	469-766-1889	903-589-1770	Metal Recycling - roll off containers.
EEC ENVIRO SERVICE COMPANY, L.L.C	ANJANETTE JONES	RED OAK	ANJI@eecenviro.com	972-938-1131	972-576-5700	Commercial Refrigeration, Air conditioning and Plumbing
EFFICIENT AIR CONDITIONING, INC.	Molly Drazic	AUSTIN	mdrazic@efficienttexas.com	512-928-2470	512-928-2920	Air conditioning and solar PV design, fabrication, installation and service.
EHH ELECTRIC SERVICE, LLC	Stella Grinage	SAN ANTONIO	ehardemon@sbcglobal.net	210-385-0220	866-943-7308	Electrical--Layout, Bid, Demo, Install outlets, Power, Fixtures
EL TAN HEATING & COOLING LLC	Timothy Marshall	LANCASTER	eltan75146@yahoo.com	469-223-9067	972-227-8007	Install and service HVAC equipment. upgrade old system to high efficient system and weatherization
ELSTONAIRE, INC.	Demetra Elston	DESOTO	demetra@elstonaire.com	972-224-0805	972-274-1764	CONSTRUCTION, FACILITIES MAINTENANCE, HVAC SALES, SERVICE & INSTALLATION
ESPREE JOHNSON ENTERPRISES LLC	Espree Johnson Enterprises LLC	BEAUMONT	espreejohnsonenterprises@gt.rr.com	409-553-3010		Hauling of hazardous and non-hazardous chemicals and materials, debris clearing & removal.
EVCO PARTNERS, L.P. D/B/A	Donna Hanson	GALVESTON	office@burgooncompany.com	800-287-4666	800-724-0267	Value added hub, sources and supplies AEDs, MRO, Safety, Lab, Medical, and Emergency Notice Supplies and Equipment. We team with major suppliers to offer a
EXIOM SITE SERVICES LLC	Anthony Roman	PLANO	julio@exioms2.com	903-498-7827	903-498-7829	Excavation, demolition, erosion control, site preparation, grading, clearing and grubbing

F. HALL MOWING	Floydell Hall	DALLAS	halldevin@msn.com	214-381-5570	214-381-5570	demolition, asbestos abatement, sand and gravel
FCD CONSTRUCTION CONSULTANTS, INC.	Carl Alexander	HOUSTON	faithconstruction.demo@gmail.com	832-891-4738		Land clearing, demolition, asphalt paving, concrete, commercial and residential construction.
FELIX MALDONADO TRUCKING, INC.	Felix Maldonado	SAN ANTONIO	maldtrkg@aol.com	210-628-1605	210-628-6217	Transportation of materials end dump and roll off services
FILTRATION & EQUIPMENT CO., INC.	Mary Erwin	BEAUMONT	maryerwin@filtrationandequipment.com	409-842-8228	409-842-8118	Sales of industrial filtration and plant related equipment.
FIXYA LLC	Joanna Breach	SAN ANTONIO	Joanna@Fixyaplumbing.com	210-585-6361		Residential and commercial plumbing and HVAC
FMW DISTRIBUTORS, INC.	FRAN WHITEHEAD	MONTGOMERY	fran@fmwtx.com	936-228-4699	936-448-4699	MANUFACTURER'S REPRESENTATIVE AND DISTRIBUTOR OF MRO EQUIPMENT & SUPPLIES, INCLUDING HVAC, SECURITY, ELECTRONICS, ELECTRICAL, SAFETY PRODUCTS.
FPI MECHANICAL CONTRACTORS, INC.	Sybil Pringle	WALLER	fpimech@yahoo.com	936-931-3906	936-372-2097	Heating, Ventilation & Air Conditioning (HVAC) installation and piping
FRANKLIN MOUNTAIN ALLIANCE LLC	Oscar Prieto	EL PASO	oprieto@temperaturepro.com	915-881-8801	844-270-1919	Heating Ventilation and Air Conditioning Contractor. Indoor Air Quality Services. Custom Duct Work. Commercial Hoods
FRESH AIR FILTER SERVICE, INC.	Marcella Murrah	SAN ANTONIO	freshair@moment.net	210-872-7957	830-833-1288	A/C filters-sales and service (installation);UVC for HVAC for energy savings and indoor air quality improvement
FRESH WIND A/C & HEATING	Dale D Rogers	DESOTO	freshwind09@yahoo.com	214-869-7354		I provide air conditioning and heating services, residential and commercial. I also repair and install all applications of air conditioning, heating and refrigeration. I can design systems and install from blue prints.
G & C CUSTOM EQUIPMENT CORPORATION	Jaime Gamon	DALLAS	gamonjr@yahoo.com	214-415-7452	972-564-6030	MANUFACTURE OF EQUIPMENT (CUSTOM)
GATEWAY AIR CONDITIONING AND	Laura Diaz	EL PASO	diazlaura@sbcglobal.net	915-533-1756	915-533-2698	Heating , Ventilation, Air Conditioning, and Ductwork, general construction ,
GEMINI MECHANICAL SERVICES, INC.	Belinda Payne	ROUND ROCK	bpayne@geminimech.com	512-244-3436	512-244-3498	Heating/ Air Conditioning Sales & Service
GLOBE ELECTRIC SUPPLY COMPANY, INC.	EDNA DOUADI	HOUSTON	stever@globelectric.com	289-933-0909	281-933-1001	Wholesale Distributor

GOLDEN MECHANICAL CONTRACTORS, INC.	JOANIE FOWLER	ARLINGTON	goldenmech@sbcglobal.net	817-469-8857	817-469-6034	HVAC & REFRIGERATION NEW CONSTRUCTION-TENANT FINISH OUT-REMODEL HUB CERTIFIED
GRANT EQUIPMENT INC.	Suzanne S. Grant	HOUSTON	sgrant@grantequip.com	713-201-8269	713-668-9123	Equipment sales
GREEN EARTH CONTRACTING LLC	Kristie Howard	WICHITA FALLS	green.earth.inc@outlook.com	940-782-0891	940-538-0544	Asbestos Abatement Demolition
GUETTLER SERVICES LLC	Dennis Guettler	DAYTON	Guettlerservices@att.net	936-258-7170	936-258-3081	excavation and underground storage tank contractor.
GZS LLC	Gabriel Z Sanchez	SAN ANTONIO	gabrielzsanchez@gmail.com	210-862-9189		Residential, commercial, industrial, and service Hvac and Electric contractor
HARRIS UNLIMITED	DARIRON L HARRIS	DESOTO	darironh@yahoo.com	214-683-3584		Interstate trucking company that specializes in expedited freight delivery.
HAUL-LINE, INC.	Ricardo Gomez	EL PASO	RICK@HAUL-LINE.COM	915-346-2132		Truckload carrierB,broker of freight all kinds through out the Continental United States
HAZEL'S HOT SHOT, INC.	Dustin Marshall	DALLAS	dustin@hazelshotshot.com	972-620-8812	972-242-5533	Expedited freight service and air freight forwarders
HEPCO DRYWALL & PAINTING CONTRACTORS INC	Nick Hernandez	HOUSTON	BidsHEPCO@gmail.com	713-433-6135	713-433-0428	Metal stud framing, drywall, texturing, painting, acoustical ceiling, insulation, interior light demolition,
HOLES INCORPORATED	SUSAN M. HOLLINGSWORTH	HOUSTON	kvazquez@holesinc.com	281-469-7070	281-469-6207	CONCRETE SAWING, DRILLING, BREAKING, DEMOLITION, LOAD & HAUL
HSC ELECTRIC COMPANY, INC.	Henry Gonzalez	SAN ANTONIO	hsc_electric@yahoo.com	210-488-2012	210-735-1560	ELECTRICAL CONTRACTOR, NEW CONSTRUCTION AND ELECTRICAL TESTING SERVICES. REMODEL MAINTENANCE & SERVICE CALLS.
HUNT ELECTRIC, INC.	Kathryn H. Hunt	CLEBURNE	kathrynhunt@huntelectricinc.com	817-558-7227	817-645-9141	Electrical Contracting - Commercial, Industrial, Residential.
HUNTER DEMOLITION & WRECKING CORP.	Debbie Hunter	POTEET	dhunterdemo@aol.com	210-227-5100	830-742-4903	Demolition and Abatement Contractors
IDEMO SERVICES, INC.	Cindy Frost	HUMBLE	cindy@idemoservices.com	281-318-7163		Interior and Exterior Demolition.
INDEPENDENT A/C REFRIGERATION	Christopher Craig Leger, Sr.	HOUSTON	chrisleger@sbcglobal.net	281-458-7722	281-458-4154	*HEATING, VENTILATION,AIR CONDITIONING & REFRIGERATION CONTRACTOR Sales,Service,Installation&maintenance
INFINITY CREATIONS AND ELECTRIC COMPANY	RICARDO GONZALEZ	WESLACO	INFINITYCREATIONSELECTRIC@YAHOO.COM	956-578-9251		Electrical contractor.
INTERSTATE EXPRESS DELIVERY SERVICE	RODERICK ADDISON	AUSTIN	interstate815@aol.com	512-873-0104		DELIVERY SERVICE

INTERSTATE MECHANICAL	David Gomez	ARLINGTON	davidgomez@interstate-mechanical.com	469-556-2494		Heating/ Air Conditioning Repair and Maintenance of Residential and Commercial equipment.
IV WILLIAMS, INC.	Leonard Williams	FORT WORTH	williamsac@sbcglobal.net	817-293-1838	817-293-1797	HVAC
J & J INSULATION AND ACOUSTICS INC	MARTHA ANN MAJEK	CORPUS CHRISTI	marthaann@jandjinsulation.com	361-887-6603	361-882-5872	DEMOLITION, ASBESTOS ABATEMENT, LEAD ABATEMENT, MOLD REMEDIATION, FIRE AND FLOOD RESTORATION AND LAND CLEARING
J&B TRANSPORT, INC	Jorge Sosa	ROSHARON	jbtransporttexas@live.com	832-971-3586	281-431-4207	(End-Dump) Dump Trucking Services
J. R. (JOE) RAMON & SONS, INC.	Timothy Ramon	SAN ANTONIO	tnramon@ramondemolition.com	210-225-1583		Demolition, Selective demolition Excavation, Site Cleaning, Site Preparation, debris clean-up, natural disaster recovery, asset reclamation, recycling, concrete crushing, site restoration
J.C. JOHNSON CONSTRUCTION	JC Johnson	TYLER	jc_johnsonjr@yahoo.com	903-530-0998	903-593-2898	excavation paving concrete, underground utilities tree removal.
J.R.O. ELECTRICAL SERVICES	Joe Orcasitas	SAN ANTONIO	orcasitas_j@yahoo.com	210-360-0377	210-455-6441	Electrical contracting such as electrical repairs, ground up construction remodeling of existing facilities
J.S. ELECTRIC, INC.	Jamie Schmidt	BUDA	jselectric@jselectric.com	512-243-2700	512-243-2702	ELECTRICAL CONTRACTING & SERVICE
J.T. HILL COMPANY	Dana G. Hill	AUSTIN	danahill@jthillelectric.com	512-836-3950	512-836-4624	Electrical Subcontracting Public/Private Projects-Universities, Schools, State Agencies, County Projects
JACO GENERAL CONTRACTORS, INC.	ROSINA FRESCAS	EL PASO	jaco2@sbcglobal.net	915-595-3941	915-595-9961	facilities, dormitories, demolition, carpentry, concrete, flooring, masonry, tile, special trades
JACOBS-CATHEY/PERRYMAN, INC.	Bradley H Bullock	WACO	jcacwaco@aol.com	254-772-9572	254-772-9570	Sales, service, and installation of heating, ventilation, and air conditioning equipment, parts and supplies. Custom ductwork and sheetmetal fabrication and installation.
JAKECO CONSTRUCTION, INC.	Nicole	LA VERNIA	jacoinc@aol.com	210-745-1302	210-745-1357	Industrial/commercial Contracting, general contracting Electrical contracting
JAMCO INTERNATIONAL, INC.	JUAN MENCHACA	LAREDO	juanm@jamcointl.com	956-717-3322	956-693-2929	CUSTOMS CLEARANCE, WAREHOUSE & DISTRIBUTION, AND TRANSPORTATION LOGISTICS.

JANDRELECTRIC	james lemon	ABILENE	jandrelectric@suddenlink.net	325-721-7813		electrical new construction on commercial and residential. electrical repair.
JF FILTRATION, INC.	Joe Fly III	DALLAS	trey@joeflyco.com	512-441-4448	512-441-4483	Commercial and Industrial air filter sales and service for all HVAC systems.
JM MECHANICAL SERVICES	Janet McNerney	HOUSTON	janetm@jmmechsvc.com	713-868-3753	713-863-0033	JM MECHANICAL SERVICES IS A FULL SERVICE HEATING VENTILATION AND AIR CONDITIONING COMPANY. WE PROVIDE DESIGN INSTALLATION AND SERVICE OF ALL TYPES
JMR DEMOLITION, LTD.	Martha Robles	EL PASO	jmrdemolition@yahoo.com	915-858-0376	915-858-3387	Demolition of Commercial and Residential Properties; Interior and Exterior, For Private Owners and/or General Contractors.
JOSHUA MECHANICAL SERVICES, LLC	Noe Lopez	CEDAR HILL	noe@joshuamechanical.com	855-777-6795	855-777-6795	HVAC, Boiler, and Small Mechanical supplies vendor. Sales and Services of Install, equipment maintenance, and startups. Global Sales of HVAC and Boilers to Mexico, Central America, South America, and Caribbean.
JR'S DEMOLITION & EXCAVATING, INC.	Tami Lindamood	IRVING	Tami@JRDemolition.com	972-254-1212	972-254-1211	Complete site demolition and removal of both residential and commercial structures.
JUSTRUCK	RATHER LEE LOMAX JR.	COLDSPRING	SEASPRINGINC@GMAIL.COM	936-447-0412	936-447-3745	Transportation / Trucking
K & N CONTROLS, INC.	NATALIE HERZOG	ROBINSON	nherzog@hot.rr.com	254-881-7660	254-881-8966	HVAC CONTROLS INSTALLER/ Energy Management Systems
K-AIR CORPORATION	Kyle Villarreal	SAN ANTONIO	estimate@k-aircorporation.com	210-888-5247	210-338-8573	Service, repair, and install air conditioning, heating, and refrigeration products. We also offer commercial electrical service, repair, and installation.
KG AC & HEATING LLC	Elda Green	CROSS ROADS	kgacandheat@att.net	214-893-1007		HVAC Mechanical contractor that repairs, services and installs HVAC equipment. Superior knowledge of DAIKIN, Mitsubishi, LG Systems and a wide array of other commercial products. Duct work, troubleshooting, copper line sets.
K-INDUSTRIAL SUPPLY & SALES	Karon L. Syracuse	CLEVELAND	k_industrial_supply@yahoo.com	281-853-7195	281-592-8468	INDUSTRIAL SUPPLY-WELDING, SUPPLY PIPE VALVES, FITTINGS-STEEL; JANITORIAL SUPPLY ELECTRICAL SUPPLY COMPRESSORS POWER TOOLS SAFETY, SUPPLY LUB
KING AC SUPPLY LLC	King AC Supply LLC	LAREDO	ceo@kingacsupply.com	956-602-1847		HVAC Supplies/Central Air Units and Appliance Parts

KINGSAIRE, INC.	Jose Villa	EL PASO	jhvilla@kingsaire.com	915-592-2997	915-598-6710	Repair, Replace, and Maintain Heating, Venting and Air Conditioning systems and
KJK LOGISTICS INCORPORATED	Kristy J Kroll	BANDERA	kris@ets-atlanta.com	830-928-1717	210-247-9379	Transportation of freight via truckload, expedited truck, domestic air charter, international air & ocean.
LANDMARK ELECTRIC CO.	James Hernandez	CORPUS CHRISTI	jamesmhernandez@yahoo.com	361-533-8124	361-334-2571	Electrical construction and maintenance; Energy management systems, renewable energy program
LARGIN CONSTRUCTION SERVICES, LLC	Jerry Jo Largin	CORPUS CHRISTI	jerryjo@larginconstruction.com	361-723-1573	361-723-1579	General Contractor - Commercial construction
LASSITER, INC.	WANDA SUE LASSITER	TERRELL	sue@lassiterinc.com	972-962-7805	972-962-7905	HVAC INSTALLATION (COMMERCIAL).
LEMCO CONSTRUCTION SERVICES, L.P.	JUDY LEMBKE	ADDISON	jlembke@lemcos.com	214-637-4222	214-637-4220	LEMCO Construction Services, L.P., is a full service commercial construction firm providing construction management, general contracting, design-build and
LEMONS TRANSPORTS, LLC	Charnise Lemons	ROUND ROCK	lemonstransports@gmail.com	512-786-9613		courier and delivery transport services
LEXINE INC	Frank	MCALLEN	f.martinez@lexinegroup.com	956-992-0690	956-992-0765	Electrical, Lighting, Surveillance, Fire Alarm, Data & Communications, Solar PV Systems, Energy Management, Building Automation
LIBER HOLDINGS LLC	Dale Betz	CYPRESS	dale@liberholding.com	832-791-2535		transmission equipment, safety, and industrial supplies.
LINDAMOOD DEMOLITION, INC.	KAYLA LINDAMOOD	IRVING	kayla@lindamood.net	972-721-0898	972-438-6745	Demolition of structures and excavating
LLANO MASONRY, LLC	Kathryn L. Sisson	LUBBOCK	brent@llanomasonry.com	806-771-9510	806-771-9511	Commercial Masonry construction
LMN TRANSPORT	Linda Porras	LUBBOCK	lporras30@yahoo.com	806-773-4828	806-833-1150	Trucking and Hauling Services: gravel, sand, asphalt, etc.
LOGIC MECHANICAL, INC.	Justine M. Gooding	KYLE	logicmechanical@austin.rr.com	512-392-2760	512-392-2751	HVAC-installation & repairs, service, maintenance
LOGISTICORP, LLC	Garry D. Castro	GRAPEVINE	garry.castro@logisticorp.us	214-956-0400		All Other Support Activities for Transportation
LOGISTICS TRADE INTERNATIONAL	Yezbel Garcia	COLLEGE STATION	yebelg@ltint.net	979-268-4200	979-690-1900	Logistics- transportation of goods
LOGNET WORLDWIDE, INC.	VANDARISE CLARK	HOUSTON	van_clark@lognetworldwide.com	281-449-5067	281-449-9285	PROVIDING CARGO TRANSPORTATION AND LOGISTICAL SERVICES WORLDWIDE VIA AIR, SEA, OR GROUND TRANSPORTATION.

LONE STAR GRADING & MATERIALS, LLC	Vicki Helm	SALADO	vicki.helm@lonestargrading.com	254-947-0149	254-933-7904	EXCAVATION, SITWORK ,STREETS,DRIVeways,SUBDIVISIONS, BUILDING PADS,LAND CLEARING/LEVELING, CONCRETE CURB,& GUTTER, SIDE WALKS, PADS, ETC. PARKING LOTS, HAULING, PIT MATERIALS, SITE CLEAN UP, TOP SOIL SALES & INSTALLATION. CHIP & SEAL COATING, ETC
LOUANNE FOSTER ENTERPRISES, INC.	Louanne Foster	MANSFIELD	louanne@dot11net.net	817-478-4747	817-225-0334	Freight brokerage providing customers with the means to transport goods utilizing the most cost effective way as possible. Vans, flatbeds, hotshots to heavy haulers for partial or full loads. We do it all.
LOZANO CONSTRUCTION CO., INC.	Pete G. Lozano, Jr.	SAN ANTONIO	rosanloza@aol.com	210-626-2880	210-626-9958	BUILDING AND CONSTRUCTION
LOZANO TRUCKING COMPANY, INC.	Irma Camarillo	SAN ANTONIO	irma.camarillo@sbcglobal.net	210-924-4311		Demolition, Hauling, Sitework, Excavation
LTT TRUCKING LLC	LeAnn Manning	MABANK	leann@ltttrucking.com	903-451-2532	888-286-8923	Arrange the transportation of freight. Auto Hauler
LUIS DOORS & CLOSER SERVICE	LUIS ESTRADA	AUSTIN	luisdoors1329@sbcglobal.net	512-785-6054	512-933-1906	DOORS, FRAMES, HARDWARE, INSTALLATION & SERVICES & DEMOLITION.
LUZ TRUCKING, INC.	Maria Luz Samaniego	EULESS	marialuz6122@yahoo.com	817-684-0435	817-684-0435	Transport asphalt, sand, rock, gravel, and all road building meterials.
LVR PRODUCTS CO.	Vince Romeo	HOUSTON	vince@5starfilter.com	713-290-1972	713-290-1870	HVAC Pleated filter, poly rolls, ring panel, HEPA, frame, washable, housing ODORS activated carbon, tank breathers, carbon cells PAINT filters, DUST COLLECTOR filters COMPRESSOR Air, oil, spin on, separators, gas turbine intake LIQUID bag filters, vessel
M.J. CARGILE TRUCKING	Melvin J. Cargile	BEAUMONT	cargilemj@yahoo.com	409-752-7676	409-752-3868	Trucking Company, Hauling Dirt, Sand, Gravel and Miscellanies Hauling Freight Equipment by Flatbed Trailer
MADDEN ELECTRIC SERVICE, INC.	Kimberly R. Madden	TERRELL	kim@maddenelectricservicesinc.com	972-524-4449	972-524-4449	Electrical Contracting & Construction; Electrical Maintenance & Repair.

MAHAN FOUNDATION & CONTRACTORS, LLC	Henry Mahan	CORPUS CHRISTI	mahanfci@yahoo.com	361-687-3901	361-299-5365	Erecting metal buildings, demolition,near construction, renovations,heavy equipment use,dirtwork,concrete,electrical,plumbing and glazed glass.
MALDONADO MECHANICAL AIR	Larry Maldonado	SAN ANTONIO	malair@sbcglobal.net	210-521-2448	210-521-2445	Plumbing, Heating & Air-Conditioning Sales and Services, Repair and Maintenance, Sheet Metal Manufac
MALTBY BUILDERS INC	SANDRA MALTBY	KINGSVILLE	maltbybuilders@sbcglobal.net	361-592-8426	361-592-8447	COMMERCIAL & RESIDENTIAL-NEW & REMODELING
MAPCO, INC.	Michael Padron	SAN ANTONIO	michael@mapcoinc.net	210-444-9711	210-444-9712	Plumbing, HVAC, mechanical. Demolition, cabling
MARINE CONNECTION SERVICES, INC.	Georganne L. Gray	DICKINSON	glg@powerfieldservices.com	281-337-7683	281-337-7684	Back-up, Standby, Industrial GENERATOR Maintenance, 24-hr emergency repair, sales and service
MAR-TEK CONTRACTOR SUPPLY, LLC	Marty Belt	AUSTIN	marty@martekusa.com	512-488-0101	512-448-0267	Commercial-Industrial-Government Contractor Supplies; Tools; Equipment; Fasteners; Etc.. Mar-teK delivers 100 years of combined Construction expertise. Our products with customer support will maximize productivity on every order, project and timeline.
MATH 4 TRUCKING LLC	Hector Machado	AUSTIN	math4trucking.austin@gmail.com	512-865-1092	512-614-0063	Transportation. General freight and construction materials. Flatbed transport solutions.
MAVICH, LLC	FAITH GORDON	SOUTHLAKE	SALES@MAVICH.COM	682-503-4484		Mavich is a distributor industrial supplies, Janitorial supplies from top industry suppliers. Mavich provides printing services as well as marketing and promotional products.
MCLO HOTSHOT SERVICE LLC	Rosie V Lopez	ODESSA	lopezrv6204@cableone.net	432-413-2177		Transportation of Goods, hotshot service and hauling.
MEGA AIR CONDITIONING, HEATING &	Toby Franco	ODESSA	megacompany@sbcglobal.net	432-580-6342	432-337-1094	Heating, Ventilation, air conditioning (HVAC)& Electrical repairs & installations.
MELVIN R KELLEY ENTERPRISES LLC	Melvin Kelley	DUNCANVILLE	melvin.kelley@mrkfabrication.com	888-380-2205	888-262-4708	MRK Fabrication specializes in and is certified in welding, pipe and metal fabrication, commercial HVAC installation and maintenance.
MERRIGAN ELECTRIC, LLC	CHRISTINE L MERRIGAN	CEDAR PARK	chris@merriganelectric.com	512-944-3217	512-287-4070	ELECTRICAL INSTALLATION, SERVICE AND REPAIR.

MESQUITE MECHANICAL SERVICES, LLC	AMINTA AGUILAR	ROBSTOWN	NOAM55@MSN.COM	361-215-2960	361-387-0933	HVAC MECHANICAL AND EQUIPMENT SALES
MFG SHELTER, LLC	GEORGE SELVERA	MCALLEN	GEORGE.ECOLOGY@YAHOO.COM	956-402-1521	956-782-5298	Whole sale of solar panels, installation, maintenance and the electricity provider management service. LED lighting indoor and outdoor products.
MFH ENVIRONMENTAL CORP.	PRES/JOSIE NICKOLAS	EL PASO	rnickolas@mfh-corp.com	915-351-6004	915-351-6166	Asbestos Removal, And Demolition
MGV SERVICES, L.L.C.	Ted Dever	HOUSTON	Ted@MGVServices.com	713-681-0407		Full service Commercial/Residential Construction, General Contractor, Remodel, Builder, Demo, Electrical, Plumbing, HVAC, Flooring, Paint, Roofing, and Siding
MIDWEST STEEL COMPANY, INC.	Tammy Horton	HOUSTON	thorton@midwest-steel.com	713-991-7843	713-991-4745	Plant and tank dismantling, process equipment removal, surplus process equipment sales
WILLIS MECHANICAL A/C AND HEAT	Charles Miles	BALCH SPRINGS	milesmechanical85@yahoo.com	214-584-4164		Mechanical a/c and heat
MINA DE ORO, INC.	Mina De Oro, Inc.	DALLAS	redchowdog@att.net	972-765-1246		New construction, renovation, duct work, trucking, timber cutting, demolition, trash removal, forestry & landscaping
MIRE TRUCKING & SERVICES	shelia mire	BEAUMONT	mirestrucking@aol.com	409-892-9173		Hauling,material,equipment,excavtion
MR. E'S AC AND HEATING, INC.	Erich Ehlinger	DEVINE	EEHLINGER@GRSANANTONIO.COM	210-509-4653	210-519-2802	HVAC and Heating, Maintenance and Installation, Civilian and Federal, Chillers, Boilers, HVAC Rental, Controls, Air Balancing
MW LOGISTICS, LLC	Virginia Gonzales	DALLAS	mward@mwlogistics.com	972-669-4259		Freight Transportation Arrangement
N.A.E. ENTERPRISES, INC.	Chantal Dauenhauer	SPRINGTOWN	ce.dauen@naecontracting.com	817-220-2200	817-220-2221	Electrical Contracting. General Contracting
NACOGDOCHES SHEET METAL & PLUMBING, LTD	Jason Bradford	NACOGDOCHES	jason@nachvac.com	936-564-5276	936-560-4526	Service company for HVAC, Plumbing and Sheet Metal fabrication. Also involved in residential and commercial new construction.
NATIVE MECHANICAL SUPPLY, LLC	Nicholas Brown	AUSTIN	nativemechanicalsupply@gmail.com	303-359-7811		Sheet metal supplies for HVAC/heating and cooling applications including, but not limited to rectangular ductwork, spiral and round ductwork and all associated joints and fittings

NECHEMYA CONSTRUCTION SOLUTIONS, L.L.C.	Principal/Daleth Johnson	NORTH RICHLAND HILLS	daleth@nechemyasolutions.com	214-274-0750	817-427-1165	Design/Build - collaborative architectural services - construction administration - General Contracting
NICKIE'S APPLIANCE SERVICE, LLC	Breezi Reynolds	MT PLEASANT	authorizedappl@att.net	903-572-1841	903-572-3303	we work on all appliances residential and commercial. we also do hvac work and insulation.
NOE'S ELECTRIC & A/C SERVICE	Noe Villarreal Jr	WESLACO	noeselectric.ac@gmail.com	956-968-8385	956-973-2237	Service and new installation of electrical and HVAC systems in commercial and residential settings.
NORMAN AIRE SERVICES, INC	Donneka Jones	DESOTO	comfort@normanaireservices.com	972-230-8497	972-947-3055	HVAC corporation which provides sales, repair, service, and installation for heating and air conditioning systems. We service the needs of both residential and commercial clients.
NORTH HOUSTON TRUCKING	Betty Jo Patton	MAGNOLIA	bettyjo@northhoustontrucking.com	281-440-6500	281-440-6502	Hauling By Dump Truck
NORTH TEXAS DUCTWORKS LLC	Carmen C Smith	ROCKWALL	ductworks4@sbcglobal.net	469-323-0454		HVAC Contractor and supplier including ductwork, equipment, controls.
NORTH TEXAS FAB, LLC	John Barnett	RENO	j.barnett@ntisparis.com	903-784-7079	903-784-6272	Industrial welding & fabrication; HVAC, mechanical & plumbing installation.
NOVIUM GROUP LLC	Tyler Walbridge	AUSTIN	tylerw@noviumgroup.net	512-767-2478	512-428-8193	General contractor, commercial building remodels, exterior site work, interior remodel, HVAC, Electrical, Sheetrock, framing, texture and paint, flooring, ceiling, roofing
O G H SERVICE COMPANY INC	David Ogle	HOUSTON	ogleboy@msn.com	713-686-3037	713-686-3091	HVAC service and installation of central air package units and all types of HVAC equipment
OBERKAMPF SUPPLY, INC. OF LUBBOCK	SANDRA REASONER	LUBBOCK	info@oberkampflbk.com	806-747-4481	806-747-2213	Wholesaler of plumbing, heating, & air conditioning equipment and related supplies
OCEAN AIR SOLUTIONS	Fernando Garcia	CORPUS CHRISTI	fernando196819@yahoo.com	361-319-4989	361-452-1082	Air Conditioning new installs and Fix or replace your current heating system with our furnace and heat pump services. We provide mowing, landscape services to ensure your yard, trees and landscaping always look their best.

OHLEN COMMERCIAL SERVICES, LLC	Julie J Ohlen	COPPELL	julie@ohlenac.com	972-315-2500	972-315-2033	MECHANICAL/HVAC CONTRACTOR DALLAS FT WORTH METROPLEX AND SURROUNDING AREAS. CHILLERS & AIR HANDLING UNITS. ROOFTOP UNITS. BOILERS HYDRONIC PIPING (CHILLED & HOT WATER) COMPUTER ROOM UNITS DX UNITS EXHAUST FANS COOLING TOWERS DESIGN BUILD
PANCHO'S TRANSPORTATION SERVICES, LLC	Frank Quesada	LAREDO	pquesada@pnqs.com	956-722-6446	956-726-3810	Regionally Trucking and transportation.
PARSONS HEATING AIR CONDITION AND	Donnie Parsons	BALLINGER	donnie.parsons@yahoo.com	325-812-2854	325-365-3110	Residential and light commercial HVAC installation, service and repair on gas furnaces, air handler, heat pump and ductless mini splits systems. Repair and service small appliances
PAYLESS INSULATION, INC.	ELISA DIAS	HOUSTON	lmk@paylessinsulation.com	713-868-1021	713-868-7014	INSTALLATION OF INSULATION, FIREPROOFING & ACOUSTICAL-DISTRIBUTORS OF COTTON INSULATION & DUCTS
PC AUTOMATED CONTROLS, INC.	Daniel Shelton	EL PASO	dshelton@pcautomatedcontrols.com	915-751-0313	915-751-2018	Building Energy Systems and Services Company. Energy Management & Temperature Control Systems, Building Automation Systems & HVAC Service for Commercial, Government, and Industrial facilities. Energy efficient lighting retrofits.
PEAK CONTRACTORS, LLC	Michael Herrera	SAN ANTONIO	mhererra@peakcontractorstx.com	210-227-4322	210-495-0990	General Contracting, painting, flooring install, demo, new construction, remodel, finish work, carpentry, electrical, plumbing, drywall, telecommunications installation
PEDRAZA HVAC INC	DAVID PEDRAZA	HOUSTON	hvacedpedraza@hotmail.com	281-970-4834	281-970-3206	Air Conditioning & Heating residential & multy family
PEREZ CONSTRUCTION	Henry Perez	SAN ANGELO	construct411@hotmail.com	325-703-6111	325-703-6112	concrete work, including stampcrete, excavation & site work, demolition work.
PHARR FRONTERA PAVING	ALEJANDRO VILLAREAL	PHARR	TX05ALEX@YAHOO.COM	956-215-4775		Paving, curb & gutter, utilities and site work.
PICASSO CONTRACTORS, LLC	Elizabeth Ponce	DALLAS	eponce@picassollc.com	469-268-9965		Interior Demolition Gut-outs, strip-outs, walls, floors, ceilings, fixtures, finishes, etc. Selective Demolition slab & beam removal, penetrations. Saw Cutting and Coring Slab, wall and coring services. Asbestos, Lead and Site Remediation.

POSEY'S CONSTRUCTION & DEVELOPMENT INC.	Babby Posey	HUMBLE	poseytractor@yahoo.com	832-754-5683	281-361-5683	Demolition, Land Clearing, Grading, Water line and Underground Utility Services/Broker of Plumbing Pipes and Supplies
POTERE CONSTRUCTION LLC	OLGA DOUGLAS	FORT WORTH	sdouglas@potereconstruction.com	817-429-2443	817-429-6062	NEW CONSTRUCTION, DEMOLITION, STREET WORK, SITE CLEAN UP
PREMIER COMFORT A/C & HEATING INC.	Ramon Ramos	SAN ANTONIO	rramos@premiercomfortair.com	210-979-9100		We provide service to all branches of the Heating, Air Conditioning, Refrigeration & ventilation industry, no matter how big or small the job. We focus on delivering a quality job on time and on budget.
PRIDE GENERAL CONTRACTORS LLC	Ramon T. Salgado	EL PASO	info@pridegc.com	915-771-9601	915-771-9600	Commercial and Institutional Building Construction Poured Concrete Foundation and Structure Framing Roofing Electrical Plumbing, Heating, and Air-Conditioning Site Preparation Contractors All Other Specialty Trade Contractors
PRIME IRRIGATION & LANDSCAPE, INC.	RICARDO GUTIERREZ	EL PASO	rgutierrez@primeirrigation.org	915-532-6215	915-351-9569	LANDSCAPING, IRRIGATION, DEMOLITION, ROCKWALLS, CONCRETE WORK
PRISM DEVELOPMENT INC	Michael von Ohlen	AUSTIN	betty@prismdevelopmentinc.com	512-479-9587	512-479-9591	Heavy Construction other than Building Contracts
PROFAM SERVICES LLC	Marlon Peoples	SAN ANTONIO	mpeoples2014@gmail.com	210-417-6080	210-855-3488	Local Freight transportation courier and delivery service.
PRO-HAUL AND DEMOLITION SERVICES OF	Hector Javier Gonzales	LAREDO	prohaulanddemo@gmail.com	956-251-6582		Truck Hauling of Earthly materials and demolition at residential and commercial buildings/structures.
PRONTO SHIPPING AND PACKAGING	Tramell Kukoyi	HOUSTON	tramell.kukoyi@prontoairfreight.com	713-782-1703	713-782-1713	Pronto Shipping and Packaging Services is an air freight and trucking company that provides shipping, packaging, crating, courier and trucking services. We also sell office supplies and packaging material.
PS MIDDLEBROOK ENTERPRISES LLC	Steven Middlebrook	SAN ANTONIO	steve.bgmech@gmail.com	210-632-6713		COMMERCIAL INDUSTRIAL HVAC SALES, SERVICE & INSTALLATION
PUNCH LOGISTICS, LLC	ANTOINETTE C. PUNCH	HOUSTON	punchlogistics@gmail.com	832-270-5610		FREIGHT BROKER SERVICES AND HAULING SERVICES
PURPOSE TRANSPORTATION LLC	KELLEY H CRAWFORD	GRAPEVINE	kelley@purposetransportation.com	972-746-4585	972-746-4584	Full service transportation company, providing truckloads, hot shots, less than truckloads, and heavy haul.

QUALITY AIR CONTROLLERS, INC.	Yazdi D. Kharas, REM	RICHARDSON	nancyyazdani@qualityaircontrollers.com	972-437-2100	972-437-6338	ENVIRONMENTAL CONTRACTING COMPANY SPECIALIZING IN ASBESTOS ABATEMENT, LEAD ABATEMENT, MOLD REMEDIATION, DUCT/HVAC UNIT CLEANING AND DEMOLITION
QUINTANILLA TRANSPORTATION SERVICES	ROLANDO QUINTANILLA	LAREDO	ROQUIN@TQ.COM.MX	956-796-9775		Transportation Services.
R&R HEATING AND COOLING	Guillermo Ramon	CALDWELL	giramont6@yahoo.com	979-450-5847		Commercial and residential central air conditioning and heating new installation, electrical, repair, maintenance.
R.E.C. ENTERPRISES, LLC	Patricia J. Hamilton	TEXARKANA	phamil4460@aol.com	903-748-8732	903-255-0923	Dirt excavation, base and paving construction and grading and drainage work.
R3 DEMO & REMOVAL, LLC	Tom Reilly	AUSTIN	tom@r3removal.com	512-771-5585		and Demolition debris. We offer 20yd; 30yd, and 40yd Roll-off containers. Additionally, we have demolition services, silt fencing, tree protection and job site
RAMOS REFRIGERATION & A/C	RODOLFO E. RAMOS	KINGSVILLE	ramosac1942@yahoo.com	361-592-4293	361-595-0393	COMMERCIAL & RESIDENTIAL HVAC, REFRIGERATION
RC MECHANICAL, INC.DBA	RUDOLPHO CHAVEZ	HOUSTON	GENERALAIR@SBCGLOBAL.NET	713-896-8944	713-896-8944	HVAC; A/C RESIDENTIAL & COMMERCIAL
REYES HVAC SERVICES	RODOLFO E. REYES	IRVING	reyeshvac2116@hotmail.com	214-223-5108		heating, air conditioning and ventilation, new installations, remodel, service and maintenance
RICHIE AUTO TRANSPORT, INC.	Amy N. Richie	FORNEY	amy@richieautotransport.com	903-873-8118	903-873-8667	Trucking and freight transportation.
RINCON AIR & HEAT COMPANY, LLC	Joseph Rincon, III	HOUSTON	j.rincon@rinconair.com	713-721-4012	713-721-8548	Heating, Ventilation, and A/C (HVAC) Contracting Services
RIO VISTA HARDWARE	Rodney Rowlett	RIO VISTA	rodney@rowlethhardware.com	817-373-3389	817-373-3529	Hardware Store, Propane, Feed, Culverts, Electrical, Plumbing, Paint, Hand Tools, Dickies Clothing.
RISCO SUPPLY CO., INC.	Linda Read	CEDAR PARK	risco@riscosupply.com	512-257-1477	512-257-1482	industrial supplier of, but not limited to: air, water and industrial filtration, plumbing, electrical, janitorial and hardware supplies, pressure gauges, industrial thermometers, pumps, motors, ETC.
RMZ KLEANING ZOLUTIONS, LLC	jesus alberto ramirez	MISSION	rudygarza80@gmail.com	956-598-4265		commercial kitchen equipment repairs/installation. Air conditioning repairs and installation
ROBLES 1, LLC	SAUL ROBLES	CIBOLO	SROBLES@ROBLES1.NET	210-566-8787	210-568-2611	DEMOLITION CONTRACTOR

ROCKIN' G CONSTRUCTION, LLC	Amy greer	HUNTSVILLE	Rockin.gconstructionllc@yahoo.com	936-577-5006		Land clearing and grubbing, drainage, earth moving, demolition, road instillation including ditches and culverts, structural foundations, drainage ponds
ROK9, LLC	Sonja Alexander	ROCKWALL	sflash9@yahoo.com	214-395-1380	927-771-6121	Asbestos Abatement, Demolition and Interior Demolition.
ROWLETT HARDWARE - GRANDVIEW	Rodney Rowlett	GRANDVIEW	rodney@rowlethhardware.com	817-866-2070	817-866-2080	Hardware Store, Propane, Feed, Culverts, Electrical, Plumbing, Paint, Hand Tools, Dickie Clothing
RPI ELECTRICAL SOLUTIONS LLC	Rick Perez	LAREDO	rick@rpielectric.com	956-796-1003	956-284-0750	Electrical Contractor. Electrical Repair Services, new installations and maintenance.
S.Y.B. CONSTRUCTION CO., INC.	Cody Phillips	IRVING	estimating@sybconstruction.com	972-399-1066	972-399-1586	Concrete paving & underground utilities
SALA & ASSOCIATES, INC.	Shaun Hartley	DALLAS	sales@salaair.com	214-742-7252	214-749-8363	Service, Maintenance, Repair, and Installation. HVAC Mechanical Contractor. Air Cleaning Products.
SALMAC CONSTRUCTION & EXCAVATING, LLC	Roy Salinas	AUSTIN	salmacco@aol.com	512-385-2209	512-385-2289	Labor, Backhoe, Bobcat, Concrete Repairs-Demolition
SAR TRANSPORTATION LLC	Pam Davis	JUSTIN	pam@sartrans.com	940-242-0666	940-242-0674	Trucking and sale of aggregates and road building materials.
SIGMA AIR, L.L.C.	JANELLE IMAD	SAN ANTONIO	ajimad@sbcglobal.net	210-657-4462	210-657-4464	HEATING AND AIR CONDITIONING SERVICES.
SILVAS TRUCKING, LLC	Rafael M. Gonzalez Iglesias	FORT WORTH	rgir@silvastruckingllc.com	817-401-9317	817-549-5666	Trucking, transportation, delivery, long/short hauls, construction dumptrucks services. Construction Demolition and Excavation and all kind of dirtworks
SILVER STAR LOGISTICS LLC	Adrian Jarrell	DALLAS	ajarrell10@gmail.com	214-734-8336		We provide contracted transportation services. We Haul dirt, asphalt, concrete, rock, and other materials.
SIMBA INDUSTRIES	Vickie Kasten	GRAPEVINE	sales@simbaindustries.com	817-251-4800	817-722-8377	industrial supplies of all catagories for Government entities. including elec, HVAC, mech, Safety, Watertreatment, Aviation (GSE), fire, police, health, electronics, plumbing, etc., and much more.
SMITH - MOBLEY, INC.	Anthony Smith	HOUSTON	ldsmith@smithmobleyinc.com	713-831-6817	713-831-6888	Carpentry, Concrete Work, Construction Management And Underground Utilities; Stadium & Auditorium Seat Installation, And Demolition Work; Stadium &
SOUTHERN PLUMBING	Lawrence A. Zamora	ELMENDORF	southern_contracting@hotmail.com	210-601-8664	210-435-5534	PLUMBING, A/C, HEATING, WELDING, COMMERCIAL CONSTRUCTION, ARCHITECTURAL

SOUTHERN RELIANT ELECTRIC, INC.	Michael Rudd	LUFKIN	estimating@southernreliantelectric.com	936-875-4008	936-875-4009	Electrical Contractors providing electrical services & repairs in new and Existing construction for residential, commercial, and industrial
SRS SERVICES, LP	Beverly Schlebach	FORNEY	BeverlyS@premierservicestx.com	972-564-3896	972-564-3899	Commercial Mechanical: HVAC Sheetmetal, Ductwork, Test & Balance, Insulation Plumbing Construction (Retrofit, Upgrade, Remodel, Tenant Finish) HVAC Service & Preventative Maintenance Plumbing Service & Preventative Maintenance
STATEWIDE SERVICES, INC	Camell Alison Jr.	HOUSTON	mel@statewidetree.net	713-864-3368	713-868-0993	Land Clearing, Tree Removal Tree Trimming, Hauling, Debris, Concrete Contractor, manhole work and excavation, storm sewer installation, sanitary sewer
STB LOGISTICS SERVICE, LLC	Rodney C. Edwards, Jr.	LIBERTY	stblogistics@yahoo.com	936-776-8284	713-677-0120	Hauling heavy hauling trucking and logistic services for construction industry.
STEVEN R. HILL CONSTRUCTION CO., INC.	STEVEN HILL	HOUSTON	steven@srrhillconstruction.com	713-956-5861	713-956-5817	CONCRETE SUBCONTRACTOR, EARTHWORK, DEMOLITION
STRONGTOWER HEATING & AIR LLC.	Kevin Evans	DALLAS	klevans40@gmail.com	469-364-9658	214-381-4359	HVAC commercial and residential services
SUNBELT AIR CONDITION AND	Hector Rosas	LAREDO	rudy@sunbelt-air.com	956-723-5418	956-727-8128	Installation and service of HVAC equipment to commercial and residential.
SUNRISE DELIVERY INC	Flores, Denise	HOUSTON	df@sditex.com	713-864-2020	713-864-6055	same day on demand delivery service across Texas.
T & B MECHANICAL, INC.	DIANE BELL	BAIRD	diane@tbtminc.net	325-854-2609	325-854-0140	Mechanical contractor, install, sell & service boilers, backflows, piping, hvac, pumps, burners, feedwater tanks
T. B. TRANSPORT SERVICES, LLC	Terry L. Brown	BEAUMONT	tbrown1009@yahoo.com	409-454-1782		We specialize in demolition,debris clean up,construction builing,highway road construction,material hauling,dirt,sand,gravel,limestone,site preparation,excavation,dozers,bobcat, and any type of rock hauling.
T2G ENTERPRISES, LLC	Crystal Metzger	SAN ANTONIO	cleansitetx@yahoo.com	210-913-8031	866-349-1514	Demolition, excavation,mowing,clearing,site-prep,
TCH SERVICE CO.	Robert Collins	DAYTON	admin@tchservice.com	936-257-8123	936-257-8128	HVAC CONTRACTOR AND INDUSTRIAL SUPPLIES. LICENSE & CERTIFICATIONS: LIC. Master Plumber & Journeyman Plumber CERT. Med-Gas, Heliarc Welding, Inter-Shield Welding, Stick Welding & Orbital

TDS EXPRESS INC	Virginia Kirk	ATHENS	skgk01@aol.com	903-681-6891	903-338-2148	TRANSPORTATION OF GOODS (FREIGHT)
TDT, INC.	David Rivera	COLLEGE STATION	Shellytdt@verizon.net	979-846-3339	979-260-2979	Dirt Contractors/Demolition HVAC sales, service and installation and equipment sales. All models, makes, residential, commercial and process heating and cooling.
TE HVAC SERVICES, LLC	Amy Hausey	SAGINAW	total_e.hvac@yahoo.com	817-694-0919	817-924-9406	MECHANICAL CONTRACTORS, A/C, REFRIGERATION AND HEATING SERVICE, SALES AND REPAIRS
TEMP CONTROL, INC.	FELIPE GARCIA	BROWNSVILLE	tempcontrolinc@sbcglobal.net	956-546-8937	956-542-3165	MANAGEMENT, DESIGN BUILDER JOB ORDER CONTRACT, CMAR
THE TREVINO GROUP, INC.	Matt Baker	HOUSTON	mbaker@trevinogroup.com	713-863-8333	713-863-8522	WE ARE AN ASSET BASED FULL-SERVICE TRUCKING COMPANY
THE UNBEATABLE CONNECTION LLC	La Teasha Smith	STAFFORD	tuctrucking@gmail.com	832-363-2566	832-518-1615	STRUCTURAL CONCRETE AND SITE PREPARATION
TIERRA FIRME CONSTRUCTION, INC.	ADRIAN RUIZ	EL PASO	tierrafirmeco@aol.com	915-881-0200	915-881-0269	TRUCKING INDUSTRY
TIGER TRANSPORTATION, INC.	Lynda Kroneman	BELLAIRE	lynda@tigertransportation.com	713-666-5200	713-666-4848	Plumbing, Mechnaical and HVAC
TITAN MECHANICAL, LLC	Carlos DeHoyos	LONGVIEW	cdehoyos@titan-mech.com	903-297-3725	903-297-3729	Construction Services for Commercial/Industrial, Systm Design, Analysis, EMS/UPS, PA/Sound, High Volt & 30x24x7 Service dpmt for Controls, Critical Systms, Int/Ext lighting Srvcs, Facility Srvcs, Infrared Diagnostics, General Diag/Repairs/Routine Maint
TITUS ELECTRICAL CONTRACTING, LP	Shelly K. Runyan	ROUND ROCK	marketing@teamtitus.com	512-339-1111	512-339-0000	Dump Trucking, Hauling, and the Locating of Materials & Dumping Space
TOP-CHOICE CONSTRUCTION	Mable Carter	HOUSTON	tccmcllc@gmail.com	713-859-9328	832-940-2015	To delivery quality commercial construction management and transportation services
TRANSPORTATION SUPPORT SERVICES,	PAMELA REGAN HAYES	IRVING	PHAYES@TSSMOVES.COM	972-438-4151	972-438-3907	FREIGHT TRANSPORTATION LOGISTICS
TRAVIS MECHANICAL, LLC	Steve Davis	CARROLLTON	sdavis@travismechanical.com	972-242-7079	972-323-1090	Air Conditioning, Heating, Refrigeration and Installation
TRI-CITY AIR CONDITIONING AND HEATING	CHRISTOPHER J GARCIA	SAN ANTONIO	chrisg@tri-cityac.com	210-825-0194		Commercial, up to 25 Ton. Residential ducted Central air, and ductless, Mini-Split system. Thermostatic controls wired, wireless and Smart. Hygienic pathogenic destroying accessories. Refrigerated coolers; walk-in, and preventive maintenance.

TRIPLE CREEK PLUMBING &	Darla Powell	BEN WHEELER	powell.plumbing20@gmail.com	903-833-5763		Installation of all phases of plumbing for commercial and residential. Water heaters, boilers, radiant floor heating, roof drains, sewer and drain cleaning, lift stations, slab leaks, camera and line locating; Demolition Services. Small Excavations.
TROY STEEL, INC.	Carole Kent	LULING	magmat01@att.net	830-875-9088	830-875-8769	Demolition, Salvage, Tank Removal, Shearing of Metal Structures, Removal of concrete slabs, trucking, sand, gravel, materials
VALENCIA ELECTRIC, LLC	Audel Valencia	DALLAS	aj@valenciaelec.com	469-471-2682	972-591-5606	Electrical Contactor
VANGUARD ELECTRICAL SERVICES, LLC	Santiago Dominguez	DALLAS	sd@vesdfw.com	214-534-0627		Electrical Contractors and Other Wiring Installation Contractors
VELMER HEATING & AIR CONDITIONING INC	RICHARD PEREZ	IRVING	velmer.hvac@verizon.net	972-790-0407	972-790-1554	Light to mid commercial HVAC
VERITAS SUPPLY, INC.	Elvira T Ocampo	HOUSTON	mel.ocampo@veritassupply.com	281-213-9200	281-304-7566	Provides Turn-Key Solutions as a Supplier of Products and Services for Electrical, HVAC, Energy Efficient Lighting and Safety.
VERYA, INC.	Kristen Decker-Ali	AUSTIN	kdeckeralisarc@gmail.com	512-497-9887	512-497-9887	HVAC service/repair, sales, and installation
V-TEC MECHANICAL, INC.	Carolina Van Vleet	ARLINGTON	vtec.carolina@yahoo.com	817-478-8700	817-478-8703	COMMERCIAL & INDUSTRIAL HVAC SERVICE & REPAIR, HVAC EQUIPMENT SALES. SECURITY ACCESS SYSTEMS.
W.J. FOSTER ENTERPRISES	DR. WILLIE J. FOSTER	FORT WORTH	williejfoster02@gmail.com	972-589-5516		CONSTRUCTION CLEAN-UP DEMOLITION CONTRACT LABOR SERVICES DIVERSITY TRAINING AND SENSITIVITY TRAINING
WCSA, INC.	Joe Whiteside	AMARILLO	joewhiteside@wcsainc.com	806-383-1060	806-383-0550	Construction excavation, maint., demolition, & vacuum truck services to industrial plants/municipal operations. Excavation-demolition, building/repairing pads, ponds, ditches, roads & project management. Vac Truck-spills, ponds, tanks,silos,& vaults.
WEIR 777, LLC	Al Weir	DALLAS	alweir777@gmail.com	469-708-8549		General Civil Excavation, underground and paving. Aggregate materials, crushing and recycling. Bridge Work, Roadways and Demolition.
WEISINGER ELECTRIC, INC	Beth Weisinger	LUFKIN	weisingr@consolidated.net	936-639-6076	936-639-6078	Electrical Contractor - commercial, industrial, residential service
WHOLE ENVIRONMENTAL	Brenda Keilers	ROCKWALL	Brenda@WholeEnvironmental.com	214-500-6338	972-771-1838	Licensed asbestos, lead, mold and demolition contractors.

WILLETT WOODS, LLC	Jim Willett	NEDERLAND	jim@easttexaslandservices.com	409-779-9618		Land clearing, excavation, backfill, demolition and forest conservation services. Right of Way clearing and maintenance. Debris removal and disposal.
WILLIAMS PAVING AND EXCAVATION, INC.	ROBERT Williams, SR.	ODESSA	dward@willpave.com	432-332-8901	432-332-9606	ASPHALT PAVING, SITE WORK & HAULING SERVICES
WILLIAMS SERVICES AC & HEATING LLC	Derek G Williams	FORNEY	williams8430@sbcglobal.net	214-676-5909	972-552-1541	HVAC Contractor for residential and light commercial, sales, service, and installations.
WILLIS DEMOLISHING/DISPOSAL CO.	Harold Willis	HOUSTON	willisdemolishing@hotmail.com	713-299-4182	832-433-7646	Demolition amd Debris Hauling
WOODLEY CONTRACTING INC	Freddie L. Woodley	MISSOURI CITY	Info@cxtitan.com	832-451-2004		General Contracting Personel Management Permit Site work Procurement Sub-contracting Inspections Masonry Debris Removal Site Work Concrete installation services Painting Interior and Exterior Painting Gypsum/Drywall Electrical Plumbing HVAC
WORLD-WIDE AIR FREIGHT, INC.	Timothy Berry	AUSTIN	wwaf2001@yahoo.com	512-659-9610	512-524-8091	We are a commercial freight company. We also are a delivery service & we do both commercial & residential moving.
YUCCA CONTRACTING	Israel Vaquera	EL PASO	yuccaconstruction@yahoo.com	915-525-7135	915-564-0648	Painting, insulation, plumbing, electrical, demolitions, flooring, roofing, suspending ceilings, door/window frames all types,concrete slabs, sidewalks,footings asphalt excavation, field and shop welding, field and shop steel fabrication
ZOMAC ELECTRICAL SYSTEMS, INC.	Tommy J. Gutierrez	GRANDVIEW	glenda@zomacelectric.com	817-535-0112	817-535-8747	We are a residential and commercial electrical contractor. We do commercial, industrial, new construction and tenant finish throughout the state of Texas.
Natalie Price - December 13, 2017						

HUB SUBCONTRACTOR LISTING - TURNKEY INSTALLATION OF PACKAGED ROOFTOP AIR HANDLER UNITS

Company Name	Contact Person	City	Email	Phone	Fax	Business Description
#1 QUALITY ELECTRIC, INC.	JOE SANCHEZ	HARLINGEN	QUALSAN@AOL.COM	956-421-2078	956-421-4026	ELECTRICAL CONTRACTOR
24/6 LOGISTICS, LLC	Jesse J. Victor	HUFFMAN	a246log@yahoo.com	713-539-4191	281-324-4925	Trucking Transportation Local
3 B'S CONSTRUCTION	Andrew Rosas	LYTLE	andrewrosas@sbcglobal.net	210-382-0984		New construction, remodeling to include wood frame, metal stud,drywall. Installation of suspended ceiling, concrete work and demolition.
3J CONTRACTING	Jose Mondragon	CORPUS CHRISTI	3jcontracting@gmail.com	361-548-4937	361-961-1207	Remodel, repair, Paint, Lawn Services,constructions,electrical, plumbing, fencing all types, demolition of small building,& hauling land waste.
5S SERVICE COMPANY LLC	Phyllis Siebert	BUDA	phyllis@5sserviceco.com	512-633-3346		Electrical Contractor. Specializing in the water/wastewater industry
8A ELECTRIC, INC.	Hilda Ochoa	SAN ANTONIO	hilda@8aelectric.com	210-736-1840	210-736-1844	Electrical installations: commercial, industrial and government projects. Specialties: emergency backup, fire alarm, mass notification, explosion-proof and cell tower systems, roadway illumination. Remote, hazardous locations and maintenance window.
A/C TECHNICAL SERVICES, LTD.	CAROL A. ZINSMEYER	CASTROVILLE	carolz@ac-technical-svcs.com	210-677-0001	830-985-9291	HVAC DESIGN & INSTALLATION SERVICE AND PREVENTATIVE MAINTENANCE CONTRACTOR
ABATEMENT SPECIALISTS, LLC	JOSE R. ORTIZ	HOUSTON	JOE@ABATEMENTSPECIALISTS.COM	832-230-4293	832-850-7478	REMEDIATION SERVICES (ASBESTOS, LEAD & MOLD);STRUCTURE (OUTSIDE & INSIDE) BUILDING DEMOLITION
ABSOLUTE DEMOLITION, INC.	Melanye Gabel	CEDAR PARK	kelli@absolutedemolition.com	512-515-0705	512-515-0706	Demolition, deconstruction, recycling
ACCU-AIRE MECHANICAL LLC	Monica Harris	SAN ANTONIO	ACCUAIRE000@ACCUAIREONLINE.COM	210-455-9003	210-648-7377	Repair, Installation & Maintenance of Commercial HVAC and Refrigeration Equipment
AC-DC INC	Maurilio H Martinez	LAREDO	maurym@acdclaredo.com	956-724-4684	956-724-8084	We do electrical services, new electrical construction, Data and Voice installation
ACE HARDWARE OF MINERAL WELLS	Mitch Bradshaw	MINERAL WELLS	lesliebrdshw@gmail.com	940-325-5952	940-325-1505	Commercial & DIY Hardware store.
ACTION TRANSPORTATION SERVICES INC.	Lucy Bowerman	HOUSTON	actiontransport@sbcglobal.net	713-673-4817	713-422-2556	transportation of partial specialized full truckloads from one location to another

ACUMEN ENTERPRISES, INC.	Wayne Boyter	DESOTO	wayne@acumen-enterprises.com	972-572-0701	972-572-0889	Mechanical HVAC & plumbing contractor, mechanical insulation, & general construction
AD CONSTRUCTION AND DEVELOPMENT INCORPOR	Hugo C. Alvarez	HOUSTON	hugo@hcahomesltd.com	713-847-8300	713-847-8333	Demolition Only/Debris & Tree Removal
ADAMS REMODELING AND REPAIR, LLC	Georgiann Crawford	THE COLONY	remodelwithadams@gmail.com	214-783-7948	469-579-5033	Services include: Painting, staining, parking lot striping & seal coating, framing & drywall, tree removal, janitorial, excavation & site preparation.
ADVANCED AIR CONDITIONING COMPANY	Benito Juarez	HARLINGEN	juar5012@yahoo.com	956-421-2116	956-421-4283	Air Conditioning Installation Sales and Service
ADVANCED ARROW SOLUTIONS INC.	PETE ACEVES	SAN ANTONIO	pete.aceves@arrowmechanical1.com	210-627-9600		offers complete servicing and replacement of commercial HVAC Equipment including, but not limited to: Pumps Chillers Drives Controls Rooftop Units Minisplit Systems Spot Coolers and much more!
ADVANCED FILTRATION PRODUCTS, LLC	Andrea Mock	AUSTIN	andrea@advfilterproducts.com	512-834-2237	512-834-4337	HVAC Air Filter Sales and Service. HVAC Ultraviolet Lamps. Everpure Water Filters. Gates HVAC Belts.
ADVANCED ROOFING SERVICES, INC.	Cruz Mendez	LONGVIEW	sammie@advancedroofingservices.com	903-759-9298	903-297-6215	commercial, residential and industrial roofing. Weatherproofing. Custom sheetmetal. Also do demolition work.
ADVANTAGE SUPPLY	Carol Bane	FORT WORTH	bids@advantagesupply.us	817-377-8094	817-377-8095	plumbing, HVAC, industrial, janitorial, promotional products, parts and equipment. Office products, business furniture & installation, computer supplies & safety products.
AFRICA 2000, INCORPORATED	Ndiago Lo	HOUSTON	lo@africa2000inc.com	281-209-2400	281-209-2402	Broker of International Freight Forwarding, Container Loading, Wood Crating Service (Ocean and Air)
AIM OVER-THE-ROAD, LLC	Angelica Garcia-Dunn	KATY	agarcia@aimgloballogistics.com	713-489-8911	866-562-5988	Transportation arrangement- We provide transportation services by Ocean, Air, and land. We specialize in domestic and International freight, Heavy Haul cargo, Rig Movements, Containers, break-bulk
AIR CONDITIONING & HEATING SERVICE BY TR	Tracy James	SUGAR LAND	tracy@tracyac.com	281-277-0697	281-277-0709	HVAC sales, installations, repairs and maintenance.
AIR CONTROL SYSTEMS INC	Luis Moya	CORPUS CHRISTI	comfortzone@grandecom.net	361-563-8462	361-334-7356	HVAC - Heating, Ventilating & Air Conditioning
AIR MECHANICAL SERVICES	Victoria Sanchez	SAN ANTONIO	sairmechanical@satx.rr.com	210-219-9396	210-534-6012	service and installation of heating and air conditioning, boilers, chill water, and rooftop units

AIR SOLUTIONS COOLING, HEATING &	Jorge Huerta	DEL RIO	airsolutions10@gmail.com	325-387-9400		Sales and installation of cooling and heating equipment; also, service and repair of equipment
AIR STREAM GENERAL CONSTRUCTION, INC	Rebecca Flores	SAN ANTONIO	bflores@air-streamservices.com	210-533-3264	210-534-1349	Mechanical Services, and Facilities Support Services
AIRCOOL TECH - ACT CORPORATION	Jose Saul Cantu	ALAMO	aircooltech@aol.com	956-702-8700	956-702-8704	Air Conditioning and Heating New Service and Installation. Refrigeration Service
AIR-TECH SERVICES	Kervin Robertson	CYPRESS	kdairstech@yahoo.com	281-212-7629	832-593-4392	Commercial & Residential HVAC Services Only
ALAMO XTREME A/C & HEATING LLC	Jose Martinez Jr.	SAN ANTONIO	alamoxtreme@gmail.com	210-723-8998	888-400-2711	Air Conditioning & Heating (Residential and Commercial) Service, Repair & Equipment Change Out
ALBO CONSTRUCTION, LLC	Felesia D. Boegner	BRYAN	office@albollc.com	979-450-8088	979-314-0003	Demolition, Asbestos & Lead Abatement
ALDEROM, LLC	Leticia Cisneros	SAN ANTONIO	alderomllc@yahoo.com	210-667-6111	210-348-6666	Distributor of Mechanical,Electronical, and Plumbing Products,Parts, and Equipment.
ALL WORKS CONSTRUCTION CORPORATION	Jose Saul Cantu	ALAMO	allianceconstructionworks@aol.com	956-702-8700	956-702-8704	Bull dozer Services, Root Plow Works, Root Rack and Stacker; Disc Work; Demolition Services; Chain Works; Back hole service; Brush Clearing; Land clearing; Pond Building and Dams.
ALLIED ELECTRIC SERVICES, INC.	Paige Paul	GEORGETOWN	paige@alliedelectric.us	512-930-0767	512-868-1250	Electrical Contractor
ALLISON ENTERPRISES, INC.	Carla Allison	GROESBECK	carla@kleenairfilters.com	254-729-0254	254-729-5786	Manufacturer of HVAC air filters. Also, provide HVAC air filter installation services.
AMER ELECTRIC	OLGA ESPERICUETA	SAN ANTONIO	amer.electric@yahoo.com	210-473-1685	210-627-2937	ELECTRIC CONTRACTOR
AMERICA TRANSPORTATION GROUP, INC.	Veronica Castaneda	LAREDO	vcastaneda@americatransportation.net	956-725-7700	956-725-8800	Over the road transportation services.
AMERICAN ELECTRIC CORPORATION	MARGARITA BEHRENDT	NEW BRAUNFELS	margie_americanelectric@yahoo.co m	830-606-1345	830-606-0128	ELECTRICAL CONTRACTING
AMERICAN HVAC, INC	Sherri Morris	HOCKLEY	sherri@americanServ.com	281-355-9100	281-288-4465	Mechanical and specialty construction to include: HVAC, Electrical, Lightning Protection & Electrical Generator Service. Utilizing our own labor and work force and our own equipment. References gladly provided.
AMISTAD HEATING AND AIR CONDITIONING	JUAN F. LOPEZ	DEL RIO	amistadair@stx.rr.com	830-774-1313	830-778-5925	HAVC SALES, INSTALLATION AND SERVICE

APPLIANCE PARTS CO.	SHERRY HARRELL	LONGVIEW	sherry@appliancepartsco.com	903-759-3983	903-759-9676	Parts & Supplies for domestic & commercial appliances & HVAC, flags.
ARWEN AIR MECHANICAL LLC	Mentory Bennett	AUSTIN	arwenairmechanical@gmail.com	512-888-1131		Providing air conditioning and heating services to residential homes and commercial businesses.
AS GENERAL CONTRACTORS LLC	Flor Lujan	EL PASO	contracting@answeringsupport.com	915-308-3750	866-231-2505	specializing in HVAC, electrical and plumbing. Specialty in Residential and Commercial of all abovementioned trades. Includes installations, Service, Retrofitting and remodeling.
ASHER CONTRACTORS LLC	Martha M. Garza	SAN ANTONIO	martha@ashercontractors.com	210-598-9409	877-497-3402	provides plumbing, HVAC, utility site work, underground utilities, Pipe & Structural Steel Welding, underground natural gas, general construction and demolition.
ASSURED MECHANICAL SOLUTIONS, LLC	Byron Bailey	CEDAR HILL	byron@amsdfw.com	972-291-2653	888-213-7868	Plumbing, Heating, and Air-Conditioning Contractors
ASTAR HEAT & AIR INC	Eliseo Esparza	GARLAND	alex@astardfw.com	972-485-0813	972-278-1529	Commercial and Residential HVAC and Plumbing, service, repair and installation
AXXON SERVICES, INC.	Genevieve Mendoza	SAN ANTONIO	genmendoza@axxonservices.com	210-558-8420	210-558-9089	HVAC Contractor and Commercial Kitchen Repair
B & E TRUCKING CO.	Bill Hall	SAN ANTONIO	bhall69032@gmail.com	210-267-8188	210-267-8188	Trucking & Material Hauling
BAKERS BACKHOE SERVICES	Kathy Baker	ELGIN	bakersbackhoe@sbcglobal.net	559-287-6267	512-285-9656	Excavation, Grading, Trenching Wet, Dry & Plumbing, communication, fire, Auger, Footings, Compacting and consulting (Brush & Land clearing)
BAR-H TRANSPORTATION, INC.	Shannon Hays	LA COSTE	barh.transportation@yahoo.com	830-985-3880		Specialized transportation and hauling. (Trucking)
BATTSON HEAT & AIR, LLC	Cheyenne Battson	JUSTIN	battsonac@hotmail.com	817-851-8155	817-887-2110	HVAC service sales and maintenance, for residential and commercial applications
BAYTECH SUPPLY INC	Bonnie YABLONSKI	SAN ANTONIO	baytincorp@aol.com	210-828-3100	210-828-3294	Diversified distributor of products from more than 20,000 manufacturers. We cross-reference and discount products from out-of-state-catalogs.
BEA DISTRIBUTORS	BETTY MANBECK	HOUSTON	beadistributors@comcast.net	281-970-1006	281-970-7311	I am a distributor (I am not a contractor or a sub-contractor) for heating and a/c

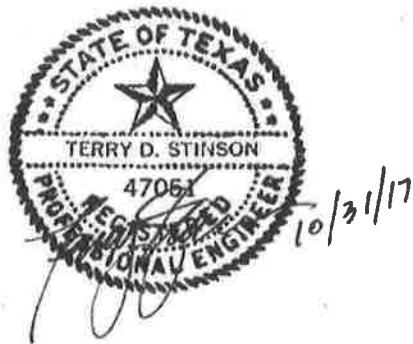
Texas Department of Criminal Justice



Hutchins Unit

MWR # 09916003

Replace Air Handlers-K
Bldg. 1-3



TEXAS DEPARTMENT OF CRIMINAL JUSTICE

**Hutchins Unit
Replace Air Handlers – K Bldg. 1-3
MWR #09916003**

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SECTION 01 00 00 – SCOPE OF WORK [Standard TDCJ Specification]

PART 1 – GENERAL

1.1 SCOPE OF WORK

A. (SCOPE OF WORK) FOR TDCJ PERSONNEL

1. Provide oversight only.

B. (SCOPE OF WORK) FOR CONTRACTOR

1. In addition to equipment, products and/or material to be provided per these specifications, provide Field Services per requirements of 2.3 of included specification section(s) and construction/installation per requirements of **PART 3 – EXECUTION** of included specification section(s).
2. Supply and install three packaged outdoor central station air handler units as shown in attached drawings to include all required disconnections and reconnections.
3. Remove the existing HVAC Packaged units using a crane sized for the load and install the new units.
4. Modify ductwork as necessary.
5. Place old equipment at a location designated by the PA.

PART 2 – PRODUCT, EQUIPMENT, MATERIAL AND/OR FIELD SERVICES

2.1 GENERAL

A. Brand or manufacturer's references are descriptive only, and indicate type and quality to be provided. All references to brand or manufacturer names shall be interpreted to include the language "or A/E approved equal". Any brand or manufacturer meeting specifications will be considered, irrespective of the language "or A/E approved equal" appearing in conjunction with the brand or manufacturer name.

B. Source and/or Manufacturer Qualifications:

1. Provided elements shall be the standard products of a manufacturer regularly engaged in the production of such and is the manufacturer's current and standard design.
2. Provided elements shall be from a manufacturer legally authorized to sell such in the United States.
3. To the extent possible, package elements shall be from a manufacturer with a service center located within 200 miles of the project site that is capable of providing training, parts, and emergency repairs.
4. To the extent possible, provided elements that interface with and/or connects to other provided elements shall be provided from the same manufacturer. (Example: fitting for PVC conduit shall be provided by same manufacturer as PVC conduit: etc.)

- a. Provided elements that interface with and/or connect to existing elements ARE NOT required to be provided from the same manufacturer as existing elements.
- b. Provided fittings, mountings, and/or connectors shall be designed, produced, listed and approved for such purpose for application and conditions; and shall be from a manufacturer approved by the producer of the elements to be fitted, mounted, connected, etc.
- 5. Manufacturers of equipment assemblies, which include components made by others, shall assume complete responsibility for specified performance of final assembled unit and shall meet UL requirements for intended use as an assembled unit.

2.2 PRODUCT, EQUIPMENT AND/OR MATERIAL REQUIREMENTS

- A. New products, equipment, and/or material suitable for project conditions, temperature and location, produced, manufactured and distributed for purpose.
- B. References to codes and standards are provided as a basis for compliance requirements; if there is a conflict between specifications and the code or standard, the code prevails.
- C. All provided products, material, equipment, equipment, shall be in accordance with applicable AHJ, per applicable trade standards, and per manufacturer instructions and/or recommendations and shall be customarily used for intended purpose.
- D. Store, transport, and handle all products, material and equipment per manufacturer's instructions and recommendations and all accepted industry standard practices.

2.3 PRODUCT, EQUIPMENT, MATERIAL AND/OR FIELD SERVICES WARRANTY REQUIREMENTS

- A. All warranties shall include all travel, shipping, labor and other expenses related to removal, transport, and reinstallation of warrantied items.

2.4 PRODUCT, EQUIPMENT, MATERIAL AND SERVICES SUBMITTAL REQUIREMENTS

- A. Detailed product submittals for equipment, material, products etc. to be considered as an "Equal" as determined by the A/E, shall be submitted with Bid.
- B. Unless otherwise noted, provide all Submittals identified in paragraph 2.5 of each attached Specification Section with Bid.
 - 1. Check for coordination with other requirements.
 - 2. Mark with Contractor's approval stamp and provide Contractor's signature before submission.
 - a. Stamp each submittal with a uniform approval stamp with a statement certifying that submittal has been reviewed, checked and approved for compliance with the Solicitation Documents.
- C. Provide product, equipment and/or material delivery schedule with Bid.
- D. Where applicable, provide schedule for field inspections, start-up, and training in terms of number of days from notification.

PART 3 - EXECUTION

3.1 DEFINITIONS

- A. A/E's Representative – is defined as A/E's designated resource for certain approvals (other than approvals of technical requirements identified on documents bearing A/E's seal and signature). For subject project, the A/E's Representative is designated as the entity designated as the Project Administrator.
- B. AHJ – Authority Having Jurisdiction.
- C. Beneficial Occupancy – for subject project shall be interpreted to intend the date an identifiable portion of the Work is sufficiently complete. The PA and Contractor may agree for that portion of the Work to be released to TDCJ's operation and/or control for the use for which it is intended.
- D. Closeout – is defined as final activities as may be identified to demonstrate compliance with Construction Documents requirements and/or to transfer of operation, maintenance, and/or control to TDCJ.
- E. Exposed – is defined as any area less than 16' above finished floor, or grade, or less than 10' from any platform that can be climbed in areas accessible by offenders as determined by PA.
 - 1. Unless otherwise stated in writing, Contractor shall interpret areas such as basements, offices, equipment rooms, pipe chases where occupants can traverse while standing as designated as 'Exposed' until after Notice of Award and an RFI is submitted and approved to indicate otherwise.
 - 2. Areas with lay-in type ceilings in these areas shall be interpreted to be 'Exposed' unless other is approved in writing.
- F. Owner's Representative – see Project Administrator.
- G. Project Administrator (PA) – is defined as TDCJ resource assigned project coordination responsibilities for this solicitation.
 - 1. The PA for this solicitation may be an individual employed by TDCJ as a Project Administrator or be an individual designated as the PA such as the TDCJ Region Maintenance Manager or the TDCJ Region Maintenance Manager's Representative. Contact TDCJ Region Maintenance Manager for designation. All references to PA shall be interpreted to intend the entity designated.
 - 2. All required project coordination including specifically identified submittals required After Award, submissions identified and/or required during the course of implementation, and obtaining approvals associated with "or A/E approved equal" requirement(s), shall be through the PA.
 - 3. All references of 'Owner's Representative', 'TDCJ Representative', 'Building Manager', or similar language shall be interpreted to intend the PA.
 - 4. All submittals required After Award shall be to PA regardless of how stated.
 - 5. If requirements indicate that an approval, etc. is to be obtained from the PA, Owner's Representative, etc., it shall be interpreted to mean the PA will obtain subject approval, etc. from the appropriate entity, which may or may not be the PA, and provide to the Contractor.
 - 6. Unless otherwise indicated, provide PA with 72 hours' notice of all coordination, inspection, testing, outages, etc.
- H. Quality Assurance/Quality Control (QA/QC) – is defined as tasks and/or documents required to demonstrate compliance with specific requirement(s) of the Construction Documents.

3.2 PREPARATION

- A. Ten (10) calendar days After Award, provide a Project Schedule to the PA for approval.
 1. Project Schedule shall be prepared on 8 1/2" x 11", blank ink on white paper, using Microsoft Word, Excel or similar electronic preparation means (not hand drawn/written).
 2. Project Schedule shall indicate and include 14 calendar days for response from PA, if such is required for Contractor to proceed with provided information. (PA shall act promptly to obtain approval from actual entity to provide approval such as the A/E.)
 - a. Where applicable, Schedule shall indicate dates for submission of items identified in 3.6 of attached Specification Section(s).
 3. Project Schedule shall indicate all activities and significant milestones required to achieve Contractor's Scope as identified above.
 - a. Where applicable, schedule shall incorporate schedule provided with Bid.
- B. TDCJ will occupy site and/or existing building(s) and continue day-to-day operations during entire performance period.
 1. Unless otherwise approved in writing, maintain existing exits, access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities.
 2. Coordinate offender relocation and schedule shut-downs of equipment and utilities, as required.
 - a. Provide not less than 48 hours' notice of activities that will affect TDCJ's operations.
 - b. All interruptions to TDCJ operations shall be minimized to the fullest extent possible.
 - 1) Provide temporary services for planned outages of permanent services for periods in excess of 4 hours (consecutive or cumulative) in any 24 hour period unless otherwise approved.
 - 2) Where required, auxiliary equipment and services for extended outages required for construction activities shall meet applicable codes and standards for such equipment and services; shall utilize equipment listed, labeled, produced, and/or manufactured for intended purpose; and shall be maintained and operated, to include consumable products and materials required for operation, provided on project site.
 - 3) Correct inadvertent interruption of TDCJ operations due to construction activities immediately.
 - c. Protect areas being utilized by TDCJ from dust, debris, and as required for appropriate safety precautions by construction barriers, where required due to proximity of TDCJ occupation to Work area.
 3. Extension of water and electricity from TDCJ provided services for construction activities is permitted.
 - a. Extensions shall meet applicable codes and standards for such equipment and services; shall utilize equipment listed, labeled, produced, and/or manufactured for intended purpose; and shall be maintained and operated, to include consumable products and materials required for operation, provided on project site.
 - b. Unless otherwise approved in writing, return all temporary extensions to pre-project conditions at conclusion of construction activities. Removed elements shall remain property of contractor.

3.3 EXECUTION REQUIREMENTS

- A. All installation and/or construction shall be in accordance with applicable AHJ, per applicable trade standards, and per manufacturer instructions and/or recommendations.
 - 1. Comply with codes, ordinances, rules, regulations, orders, standards, and other legal requirements of AHJ, which bear on performance or Work.
 - 2. Promptly submit written notice of observed variance of Construction Documents from legal requirements.
 - a. Assume responsibility for Work known to be contrary to such requirements and completed without providing this notification.
 - 3. Install, construction, test, and service all products, material and equipment per manufacturer's instructions and recommendations and all accepted industry standard practices until operation and control is accepted by TDCJ.
- B. Construct Work in stages or phases with each to be substantially complete before beginning next to accommodate TDCJ occupancy requirements during the construction.
 - 1. Coordinate implementation schedules and operation with PA.
 - 2. For interior work to the extent possible, all work including demolition, installation, repair, restoration, functional testing, etc. shall be completed in one area before beginning work in another area.

3.4 EXECUTION SUBMITTALS

- A. Per Project Schedule approved by PA, provide submittals identified in 3.6 of attached specification section(s).
 - 1. Check for coordination with other requirements.
 - 2. Provide shop drawing for approval of modifications to duct work with proposal.
 - 3. Mark with Contractor's approval stamp and provide Contractor's signature before submission.
 - a. Stamp each submittal with a uniform approval stamp with a statement certifying that submittal has been reviewed, checked and approved for compliance with the Solicitation Documents.

3.5 CLOSE OUT

- A. Provide 3 copies of all manufacturer installation, maintenance and operation data originally bound and originally printed, 1 in each of 3 standard 3-ring binders labeled with Project Name and MWR number.
- B. Provide all executed Warranties.

END OF SECTION 01 10 00
[Revision July 2017]

SECTION 23 74 13– Outdoor Packaged Central-Station Air-Handling Units Heating and Cooling [Standard TDCJ Specification]

PART 1 - GENERAL

1.1 SUMMARY

- A. Requirements for Central Air Handling Units.
- B. References
 - 1. AFBMA 9-Load Ratings and Fatigue Life for Ball.
 - 2. AMCA 210-Laboratory Methods of Testing Fans for Rating Purposes.
 - 3. ARI 4301 - Central Air-Handling Units.
 - 4. NFPA National Electric Code.
 - 5. SMACNA HVAC Duct Construction Standards – Metal and Flexible.

PART 2 - PRODUCT, EQUIPMENT, MATERIAL AND/OR FIELD SERVICES

2.1 GENERAL

- A. Brand or manufacturer's references are descriptive only, and indicate type and quality to be provided. All references to brand or manufacturer names shall be interpreted to include the language "or A/E approved equal". Any brand or manufacturer meeting specifications will be considered, irrespective of the language "or A/E approved equal" appearing in conjunction with the brand or manufacturer name.
- B. Additional Source and/or Manufacturer Qualifications:
 - 1. Manufacturer: Company specializing in manufacturing the products specified in this section with a minimum of five years documented experience, who issues complete catalog data on complete products.
 - 2. Startup must be performed by trained personnel experienced with the specified product.
 - 3. Units shall be rated and certified in accordance with ANI/ARI Standard 340/360-2007 including Addenda 1 and 2.
 - 4. TDCJ will accept products on site in factory-fabricated protective containers, with factory installed shipping skids.

2.2 PRODUCT, EQUIPMENT AND/OR MATERIAL REQUIREMENTS

- A. The HVAC Units to be replaced are shown on the equipment schedule on the plans.

- B. Unit shall be designed to conform to ANSI (American National Standards Institute)/ASHRAE (American Society of Heating, Refrigeration and Air Conditioning) 15 (latest edition), ASHRAE 62, and UL Standard 1995.
- C. Units with heating shall be designed to conform to ANSI Standard Z21.47 (Fired Central Furnaces).
- D. Insulation and adhesive shall meet NFPA (National Fire Protection Association) 90A requirements for flame spread and smoke generation.
- E. Unit shall have an EER of 10.5 or greater and an IEER of 12.0 or greater.
- F. Unit shall be stored and handled per manufacturer's recommendations.
- G. Factory-assembled, single-piece heating and cooling unit. Contained within the unit enclosure shall be all factory wiring, piping, refrigerant charge (R-410A), operating oil charge, dual refrigerant circuits, microprocessor-based control system and associated hardware, and all special features required prior to field start-up.
- H. Unit Cabinet:
 - 1. Constructed of galvanized steel (designated G90 per ASTM (American Society for Testing and Materials) Standard A653 — minimum coating weight of 0.9 oz of zinc per square foot), bonderized and primer-coated on both sides and coated with a baked polyester thermosetting powder-coating finish on the outer surface.
 - a. Units can be shipped in two pieces as long as the split is between fan and coil sections are separate and the refrigeration system is in tact
 - 2. Unit casing shall be capable of withstanding ASTM Standard B117 750-hour salt spray test.
 - 3. Sides shall have insulated, double wall, hinged access doors for easy access to the control box and other areas requiring servicing. Each door shall seal against a rubber gasket to prevent air and water leakage.
 - 4. Interior cabinet surfaces, except heat exchanger section, shall be insulated with flexible fire-retardant dual-density (1.75-lb/cu ft) fiberglass blanket, coated on the air side. Insulation coating shall be cleanable and shall contain an EPA-registered immobilized antimicrobial agent to effectively resist the growth of bacteria and fungi as proven by tests in accordance with ASTM Standards G21 and G22.
 - 5. Interior cabinet surfaces within heat exchanger section shall be lined with sheet metal on all surfaces, insulated on the side opposite the airstream.
 - 6. Insulation shall be applied by means of adhesion using a water reducible adhesive sprayed onto interior surface. Adhesive shall maintain a satisfactory adhesion and cohesion within the temperature range of -20

- to 180 F and have excellent resistance to water and water vapor when cured.
7. Unit shall contain a drain pan sloped two ways, to prevent standing water from accumulating. Pan shall be fabricated of stainless steel. Unit shall contain a factory-installed nonferrous main condensate drain connection.
 8. Units shall be equipped with lifting lugs to facilitate overhead rigging.
 9. Unit shall supply 55°F dry bulb air to the space and at design conditions the exterior of the AHU shall not form condensation
 10. Unit shall include Marine light in sections accessible to maintenance.

I. Fans

1. Supply Fan:
 - a. Unit shall have only one fan wheel, scroll, and motor.
 - b. Motor shall meet or exceed all NEMA Standard Publication MG 1-2006 requirements and comply with NEMA Premium efficiency or NEMA energy ODP or TEFC operable at 480/60/3, exceeding EPAct efficiency requirements.
 - c. Fan scroll, wheel, shaft, bearings, drive components and motor shall be mounted on a formed steel assembly which shall be isolated from the unit outer casing with factory-installed 2-in. deflection spring isolators and vibration-absorbent fan discharge seal.
 - d. Fan shall be double-width, double-inlet, centrifugal belt driven forward-curve type with single outlet discharge (standard) or centrifugal belt driven airfoil blade section type with single outlet discharge (optional).
 - e. Fan wheel shall be designed for continuous operation at the maximum rated fan speed and motor horsepower.
 - f. Fan wheel and shaft shall be selected to operate at 25% below the first critical speed and shall be statically and dynamically balanced as an assembly.
 - g. Fan shaft shall be solid steel, turned, ground and polished, and coated with rust preventative oil.
 - h. Fan shaft bearings shall be self-aligning, pillow-block, greasable ball or roller-type selected for a minimum average life of 200,000 hours at design operating conditions in accordance with ANSI B3.15.
 - i. A single motor shall be mounted within the fan section casing on slide rails equipped with adjusting screws. Motor shall be mounted on a horizontal flat surface and shall not be supported by the fan or its structural members.
 - j. At the manufacturer's option, a Plenum fan can be supplied with manufacturer approved thrust restraint system and safety cage.

- k. Fan drive shall be constant-speed fixed-pitch. All drives shall be factory-mounted, with belts aligned and tensioned. At the manufacturer's option, a direct drive fan with an inverter rated motor is acceptable.
 - l. Cooling Design Cooling conditions: 80°F db/68°F wb.
 - m. Heating Design Cooling conditions: 35°F db.
2. Condenser Fans:
- a. Direct-driven propeller type.
 - b. Units shall have a direct driven, blade airfoil cross section, reinforced polymer construction, and shrouded-axial type fans with inherent corrosion resistance.
 - c. Discharge air vertically upward. NOTE: Where the condensing fans are to be installed under the overhang of the existing building, AHU manufacturer shall provide a means to discharge air from the condensing section so the air from the condensing section does not "deadhead" or recirculate.
 - d. Protected by PVC-coated steel wire safety guards.
 - e. Fans shall be statically and dynamically balanced.
 - f. Motors shall be totally enclosed motors.

J. Variable Frequency Drive:

Unit shall have a variable frequency drive to operate the AHU at cooling air flow and reduce the blower speed to the air flow required for heating. The VFD adjustable variable-frequency motor controller shall have the following features:

- 1. Variable Frequency Drive (VFD) shall be UL listed as a complete system.
- 2. VFD shall be a solid state with Pulse Width Modulated (PWM) output.
- 3. VFD shall be in a NEMA 1 enclosure, completely assembled and tested by the manufacturer.
- 4. VFD shall employ a full wave rectifier, capacitors, and Gate Bipolar Transistors (IGBT's) as output switching device.
- 5. The drive efficiency shall be 96% or better at full speed.
- 6. The drive shall incorporate mechanisms that lower the harmonic currents by the drive as compared to standard six-pulse drives onto the AC power line. This design shall be HVAC specific low DC link capacitance. Harmonic distortion at the drive is not to exceed 29 percent without the use of additional components such as line reactors or DC link chokes.
- 7. The VFD shall be interlocked to a run permissive circuit with the service disconnects via an auxiliary contact at the service disconnect. When the disconnect is closed, a permissive run signal restarts the VFD at low voltage and frequency.
- 8. Where the motor contactor, or disconnect, is between the VFD and the motor, the VFD shall only be operated when the VFD is in a STOP mode.

Where the VFD is installed in this manner, an "early break" auxiliary set of contacts on the device shall be interlocked with the VFD's External Fault input so that when the device is opened while the VFD is running, it will shut off the output of the VFD. Where wired to the VFD's Stop input, the stop method must be set to coast.

9. Input voltage shall be 480/3/60.
10. VFD shall have a control pad for local control.
11. The following operational information shall be displayed using a VFD digital display. All parameters shall be capable of being displayed at all times:
 - a. Output frequency
 - b. Motor Speed (RPM, % or engineering units)
 - c. Motor current
 - d. Calculated Motor torque
 - e. Calculated Motor Power (kW)
 - f. DC bus voltage
 - g. Output voltage
 - h. Heat sink temperature
 - i. Analog input values
 - j. Analog output values
 - k. Elapsed Time Meter (resettable)
 - l. Kwh meter
 - m. Digital input status
 - n. Digital output status
12. The VFD shall be capable of automatically restart after an over current, over voltage, under voltage, or loss of input signal protective trip. The number of restart attempts, trial time, and time between reset attempts shall be programmable.
13. The VFD shall be capable of starting into a rotating load (forward or reverse) and accelerate or decelerate to set-point without safety tripping or component damage.
14. The VFD shall be capable of DC injection braking that can be employed to stop a freewheeling motor prior to starting to avoid over-voltage nuisance tripping.
15. The VFD shall have the ability to be programmed to automatically extend the ramp down time, as required, to keep the drive from tripping on over voltage caused by regeneration of power by the load.
16. The VFD shall have the following protection circuits. In the case of a protective trip, the drive shall announce the fault condition to the keypad display:
 - a. Over-current
 - b. Over-voltage
 - c. Under-voltage

- d. Over temperature, Heat sink temperature
17. Speed Command Input shall be via any of the following:
- a. Keypad
 - b. Two analog inputs, each capable of accepting a 0-20 ma, 4-20 ma, 0-10V signal, and direct N1 1000 temperature sensor input.
 - c. Serial communication.

K. Compressors:

- 1. Fully hermetic scroll type compressors with overload and short cycle protection with minimum on and off timers.
- 2. Factory rubber-in-shear mounted for vibration isolation.
- 3. Reverse rotation protection capability.
- 4. Crankcase heaters shall only be activated during compressor off mode.

L. Coils:

- 1. Evaporator Coil:
 - a. Intertwined circuiting constructed of aluminum fins mechanically bonded to seamless copper tubes.
 - b. Full-face active type during full and part load conditions.
 - c. Coils shall be leak tested at 150 psig and pressure tested at 650 psig.
- 2. Condenser Coils:
 - a. Coil construction shall consist of aluminum alloys for the fins, and copper for tubes and manifolds.
 - b. Air-cooled condenser coils shall be leak tested at 150 psig and pressure tested at 650 psig.

M. Outdoor-Air Hood Assembly:

- 1. Factory-installed manual outdoor-air damper shall allow intake of up to 25% nominal airflow (on units not equipped with optional economizer).

N. Heating Section:

- 1. Induced-draft combustion type with energy saving direct spark electronic ignition systems and redundant main gas valves. Provide flame sensor to prove pilot flow and then turn on the main gas valve with two stages. Provide manual main gas shutoff valve.

2. The heat exchanger shall be constructed of minimum 20-gage Type 409 Stainless Steel for corrosion resistance. Tubing material shall be suited for high temperature and corrosion resisting service. Tubing material shall comply with ASTM A268, Grade TP409. Tubing shall be welded and annealed.
3. A natural gas fired furnace shall be installed in the unit heat section. The heat exchanger shall include a type 321 stainless steel cylindrical primary combustion chamber, a type 321 stainless steel header, type 321 stainless steel secondary tubes and type 321 stainless steel turbulators. Carbon and aluminized steel heat exchanger surfaces are not acceptable. The heat exchanger shall have a condensate drain. Clean out of the primary heat exchanger and secondary tubes shall be accomplished without removing casing panels or passing soot through the supply air passages. The furnace section shall be positioned downstream of the supply air fan. The furnace will be supplied with a modulating forced draft burner. The burner shall be controlled for low fire start. The burner shall be capable of continuous modulation between 33% and 100% of rated capacity and shall operate efficiently at all firing rates.
4. The furnace shall be a forced draft burner capable of continuous modulation between 5% and 100% of rated capacity, without steps. The burner shall operate efficiently at all firing rates. The burner shall have proven open damper low-high-low pre-purge cycle, and proven low fire start. The combustion air control damper shall be in the closed position during the off cycle to reduce losses.
5. The burner shall be specifically designed to burn natural gas and shall include a microprocessor based flame safeguard control, combustion air proving switch, pre-purge timer and spark ignition. The gas train shall include redundant gas valves, [5–10psi high pressure regulator], shutoff cock, pilot gas valve, pilot pressure regulator, and pilot cock. The burner shall be fabricated of 321 stainless steel. The burner shall be specifically designed to burn natural gas and shall include a microprocessor based flame safeguard control, combustion air proving switch, pre-purge timer and spark ignition. The gas train shall include redundant gas valves, maximum 0.5psi pressure regulator] [2–3psi high pressure regulator] [5–10psi high pressure regulator], shutoff cock, pilot gas valve, pilot pressure regulator, and pilot cock.
6. Induced Draft Fans:
 - a. Direct-driven, single inlet, forward-curved centrifugal type.
 - b. Statically and dynamically balanced.
 - c. Made from steel with a corrosion-resistant finish.
7. High-corrosion areas such as flue gas collection and exhaust areas shall be lined with corrosion-resistant material.

8. If the flue is under the existing building overhang, the manufacturer shall provide sufficient flue piping to route the combustion gases to the exterior of the building overhang.
9. All gas piping shall enter the unit cabinet at a single location.

O. Refrigerant Components:

Unit shall be equipped with dual refrigerant circuits, each containing:

1. Filter drier.
2. Moisture indicating sight glass.
3. Thermostatic expansion valve.
4. Fusible plug.

P. Filter Section:

1. Filter section shall consist of 2-in. thick, MERV (Minimum Efficiency Reporting Value) 7 disposable fiberglass filters of commercially available sizes.
2. Factory 2-in. filter track shall allow easy field conversion to accept 4-in. thick, disposable fiberglass filters of commercially available sizes.

Q. Controls, Safeties, and Diagnostics:

Unit shall be equipped with the following protections:

1. Compressors:
 - a. Overcurrent using calibrated circuit breakers (shuts down individual compressor).
 - b. Crankcase heaters.
 - c. High-pressure switch (shuts down individual circuit, automatic reset type).
 - d. Low-pressure switch (shuts down individual circuit, automatic reset type).
 - e. Check filter switch.
 - f. Phase Monitor protection.

2. Belt-Drive Fan Motors:

- a. Overcurrent protection manual reset circuit breakers.

3. Heating Section:

- a. Redundant gas valves.
- b. Flame proving controls.
- c. Induced-draft fan motor speed sensor.
- d. High-temperature limit switch.

e. Flame rollout switch.

R. Operating Characteristics:

1. Unit shall be capable of starting and running at 115° F ambient outdoor temperature per maximum load criteria of AHRI Standard 340/360, latest edition.
2. Unit shall be capable of mechanical cooling operation down to 32 F ambient outdoor temperature (-20 F with low ambient accessory).
3. Provides multi-stage cooling capability.

S. Motors:

1. Compressor motors shall be cooled by suction gas passing over motor windings.
2. Condenser-fan motors shall be 3-phase, totally enclosed type with permanently lubricated ball bearings and internal over-temperature protection.
3. Supply and exhaust fan motors shall be of the 3-phase, NEMA (National Electrical Manufacturers Association) rated, open drip-proof (ODP), ball bearing type, inverter rated with efficiencies per EISA (Energy Independence and Security Act) of 2007 (U.S.A.) requirements.

T. Electrical Requirements:

1. All unit power wiring shall enter unit cabinet at a single location.
2. Provide a Disconnect for the AHU. Provide one point of electrical service.

U. Special Features:

1. Digital Compressor: A digital compressor shall be available on the lead circuit for constant volume and variable air volume configurations. The compressor shall have a control system capability of unloading this compressor in an infinite number of steps from 100% of unit capacity down to 50% of compressor capacity.
2. Pleated Air Filters: Unit shall be factory equipped with MERV 7 pleated filters having the following characteristics:
 - a. Efficiency of no less than 30% based on testing per ASHRAE Standard 52.
 - b. Minimum average arrestance of 95%.
3. Suction and Liquid Service Valves shall be equipped with ball type service valves in the suction and liquid line for each circuit.
4. Discharge Service Valve: Unit shall be equipped with a ball type service valve in the discharge line of each circuit.

5. Replaceable Core Filter Drier: Unit shall be equipped with a replaceable core filter drier in each liquid line.
6. Provide units with a three-phase monitor.
7. Short Circuit Current Rating (SCCR): A SCCR of 10kA shall be provided for 208/230 and 460 volt units. It is acceptable to provide a SCCR of 5kA with a current limiting fused disconnect for the power entering the unit.
8. Low Compressor Sound Blanket: Low compressor sound blanket accessory shall be available for field installation.

2.3 FIELD SERVICES REQUIREMENTS

A. Field Inspections:

1. No Additional Requirements.

B. Start-up:

1. Do not operate any of the specified units for any purpose, temporary or permanent, until the ductwork is clean, filters and remote controls are in place, bearings lubricated, and manufacturers' instructions have been followed.
2. Do not operate the unit until ductwork is attached, filters are in place, bearings lubricated (if applicable), condensate drain and natural gas piping is installed, belts aligned and all SHIPPING BRACES are removed. Operate the supply air fan and ensure all screws are torqued and the fan is operating properly.
3. To ensure the proper startup of the new unit for the first time, provide startup personnel trained by the AHU manufacturer at the time of initial startup.

C. Training:

1. Provide instruction for installation, maintenance and service.

2.4 PRODUCT, EQUIPMENT, MATERIAL AND/OR FIELD SERVICES WARRANTY REQUIREMENTS

- A. AHU manufacturer shall provide a standard parts warranty that covers a period of one year from unit startup or 18 months from shipment, whichever occurs first. This warrants that all products are free from defects in material and workmanship and shall meet the capacities and ratings set forth in the manufacturer's catalog, bulletins and this specification.

2.5 PRODUCT, EQUIPMENT, MATERIAL AND/OR FIELD SERVICES SUBMITTAL REQUIREMENTS

- A. Shop drawings shall be submitted which show the following:
 1. Size of equipment footprint and cabinet dimensions.
 2. Location of access doors and general layout of the air handler components in the cabinet.
 3. Location of electrical connection point.
 - B. Manufacturer shall provide a list of recommended spare parts.
 - C. Provide literature that indicates dimensions, weights, capacities, ratings, fan performance, gauges and finishes of materials, and electrical characteristics and connection requirements.
 - a. Provide data on filter media, filter performance, filter assembly, and filter frames.
 - b. Provide computer generated fan curves with specified operating point clearly plotted.
 - c. Manufacturer's Installation Instructions.

PART 3 - EXECUTION

3.1 INSTALLER QUALIFICATIONS

- A. For other than TDCJ personnel, installing entity shall be a company with at least five years of experience, licensed as a Class A HVAC contractor by the State of Texas and with at least five years of experience in the installation of the type of equipment to be supplied.

3.2 PREPARATION

- A. Installation activities shall be coordinated with unit security and maintenance personnel prior to start of work to ensure no conflicts with other work or activities at the unit where the equipment is being installed.

3.3 EXECUTION REQUIREMENTS.

- A. No additional requirements.

3.4 QUALITY CONTROL

- A. No additional requirements.

3.5 COMMISSIONING

- A. No additional requirements.

3.6 EXECUTION SUBMITTALS

- A. Documentation of requirements shown in Section 3.1 above.

3.7 INSTALLATION AND/OR WORKMANSHIP WARRANTY REQUIREMENTS

- A. No additional requirements.

3.8 CLOSE-OUT

- A. No additional requirements.

END OF SECTION

[Revision 07/2017]

SECTION 23 74 13.13 Outdoor Packaged Central-Station Air Handling Units Cooling Only

[Standard TDCJ Specification]

PART 1 - GENERAL

1.1 SUMMARY

- A. Requirements for Central Air Handling Units.

References:

1. AFBMA 9-Load Ratings and Fatigue Life for Ball.
2. AMCA 210-Laboratory Methods of Testing Fans for Rating Purposes.
3. ARI 4301 – Central Air Handling Units.
4. NFPA National Electric Code.
5. SMACNA HVAC Duct Construction Standards – Metal and Flexible.

PART 2 - PRODUCT, EQUIPMENT, MATERIAL AND/OR FIELD SERVICES

2.1 GENERAL

- A. Brand or manufacturer's references are descriptive only, and indicate type and quality to be provided. All references to brand or manufacturer names shall be interpreted to include the language "or A/E approved equal. Any brand or manufacturer meeting specifications will be considered, irrespective of the language "or A/E approved equal" appearing in conjunction with the brand or manufacturer name.

Additional Source and/or Manufacturer Qualifications:

1. Manufacturer: Company specializing in manufacturing the products specified in this section with a minimum of five years documented experience, who issues complete catalog data on complete products.

2.2 PRODUCT, EQUIPMENT AND/OR MATERIAL REQUIREMENTS

- A. The HVAC Unit to be replaced is shown on the plans.

Unit shall be designed to conform to ANSI (American National Standards Institute)/ASHRAE (American Society of Heating, Refrigeration and Air Conditioning) 15 (latest edition), ASHRAE 62, and UL Standard 1995. Insulation and adhesive shall meet NFPA (National Fire Protection Association) 90A requirements for flame spread and smoke generation. Unit shall have an EER of 10.5 or greater and an IEER of 12.0 or greater. Unit shall be stored and handled per manufacturer's recommendations.

Factory-assembled, single-piece heating and cooling unit. Contained within the unit enclosure shall be all factory wiring, piping, refrigerant charge (R-410A), operating oil charge, dual refrigerant circuits, microprocessor-based control system and associated hardware, and all special features required prior to field start-up.

Unit Cabinet:

1. Constructed of galvanized steel (designated G90 per ASTM (American Society for Testing and Materials) Standard A653 — minimum coating weight of 0.9 oz of zinc per square foot), bonderized and primer-coated on both sides and coated with a baked polyester thermosetting powder-coating finish on the outer surface.
 - a. Units can be shipped in two pieces as long as the split is between fan and coil sections are separate and the refrigeration system is intact
2. Unit casing shall be capable of withstanding ASTM Standard B117 750-hour salt spray test.
3. Sides shall have insulated, double wall, hinged access doors for easy access to the control box and other areas requiring servicing. Each door shall seal against a rubber gasket to prevent air and water leakage.
4. Interior cabinet surfaces, except heat exchanger section, shall be insulated with flexible fire-retardant dual-density (1.75-lb/cu ft) fiberglass blanket, coated on the air side. Insulation coating shall be cleanable and shall contain an EPA-registered immobilized antimicrobial agent to effectively resist the growth of bacteria and fungi as proven by tests in accordance with ASTM Standards G21 and G22.
5. Interior cabinet surfaces within heat exchanger section shall be lined with sheet metal on all surfaces, insulated on the side opposite the airstream.
6. Insulation shall be applied by means of adhesion using a water reducible adhesive sprayed onto interior surface. Adhesive shall maintain a satisfactory adhesion and cohesion within the temperature range of –20 to 180 F and have excellent resistance to water and water vapor when cured.
7. Unit shall contain a drain pan sloped two ways, to prevent standing water from accumulating. Pan shall be fabricated of stainless steel. Unit shall contain a factory-installed nonferrous main condensate drain connection.
8. Units shall be equipped with lifting lugs to facilitate overhead rigging.
9. Unit shall supply 55°F dry bulb air to the space and at design conditions the exterior of the AHU shall not form condensation.
10. Provide a Marine light in sections accessible to maintenance.

Fans

1. Supply Fan:
 - a. Unit shall have only one fan wheel, scroll, and motor.
 - b. Motor shall meet or exceed all NEMA Standard Publication MG 1-2006 requirements and comply with NEMA Premium efficiency or NEMA energy ODP or TEFC operable at 480/60/3, exceeding EPAct efficiency requirements.
 - c. Fan scroll, wheel, shaft, bearings, drive components and motor shall be mounted on a formed steel assembly which shall be isolated from the unit outer casing with factory-installed 2-in. deflection spring isolators and vibration-absorbent fan discharge seal.
 - d. Fan shall be double-width, double-inlet, centrifugal belt driven forward-curve type with single outlet discharge (standard) or centrifugal belt driven airfoil blade section type with single outlet discharge (optional).
 - e. Fan wheel shall be designed for continuous operation at the maximum rated fan speed and motor horsepower.
 - f. Fan wheel and shaft shall be selected to operate at 25% below the first critical speed and shall be statically and dynamically balanced as an assembly.
 - g. Fan shaft shall be solid steel, turned, ground and polished, and coated with rust preventative oil.
 - h. Fan shaft bearings shall be self-aligning, pillow-block, greasable ball or roller-type selected for a minimum average life of 200,000 hours at design operating conditions in accordance with ANSI B3.15.
 - i. A single motor shall be mounted within the fan section casing on slide rails equipped with adjusting screws. Motor shall be mounted on a horizontal flat surface and shall not be supported by the fan or its structural members.
 - j. At the manufacturer's option, a Plenum fan can be supplied with manufacturer approved thrust restraint system and safety cage.
 - k. Fan drive shall be constant-speed fixed-pitch. All drives shall be factory-mounted, with belts aligned and tensioned. At the manufacturer's option, a direct drive fan with an inverter rated motor is acceptable.
 - l. Cooling Design Cooling conditions: 80°F db/68°F wb.
 - m. Heating Design Cooling conditions: 35°F db.
2. Condenser Fans:
 - a. Direct-driven propeller type.

- b. Units shall have a direct driven, blade airfoil cross section, reinforced polymer construction, and shrouded-axial type fans with inherent corrosion resistance.
- c. Discharge air vertically upward. NOTE: Where the condensing fans are to be installed under the overhang of the existing building, AHU manufacturer shall provide a means to discharge air from the condensing section so the air from the condensing section does not "deadhead" or recirculate.
- d. Protected by PVC-coated steel wire safety guards.
- e. Fans shall be statically and dynamically balanced.
- f. Motors shall be totally enclosed motors.

Variable Frequency Drive:

1. Unit shall have a variable frequency drive to operate the AHU at cooling air flow and reduce the blower speed to the air flow required for heating. The VFD adjustable variable-frequency motor controller shall have the following features:
 2. Variable Frequency Drive (VFD) shall be UL listed as a complete system.
 3. VFD shall be a solid state with Pulse Width Modulated (PWM) output.
 4. VFD shall be in a NEMA 1 enclosure, completely assembled and tested by the manufacturer.
 5. VFD shall employ a full wave rectifier, capacitors, and Gate Bipolar Transistors (IGBT's) as output switching device.
 6. The drive efficiency shall be 96% or better at full speed.
 7. The drive shall incorporate mechanisms that lower the harmonic currents by the drive as compared to standard six-pulse drives onto the AC power line. This design shall be HVAC specific low DC link capacitance. Harmonic distortion at the drive is not to exceed 29 percent without the use of additional components such as line reactors or DC link chokes.
 8. The VFD shall be interlocked to a run permissive circuit with the service disconnects via an auxiliary contact at the service disconnect. When the disconnect is closed, a permissive run signal restarts the VFD at low voltage and frequency.
 9. Where the motor contactor, or disconnect, is between the VFD and the motor, the VFD shall only be operated when the VFD is in a STOP mode. Where the VFD is installed in this manner, an "early break" auxiliary set of contacts on the device shall be interlocked with the VFD's External Fault input so that if the device is opened while the VFD is running, it will shut off the output of the VFD. When wired to the VFD's Stop input, the stop method must be set to coast.
 10. Input voltage shall be 480/3/60.
 11. VFD shall have a control pad for local control.
 12. The following operational information shall be displayed using a VFD digital display. All parameters shall be capable of being displayed at all times:
 - Airflow rates
 - Temperature
 - Humidity
 - Power consumption
 - Fault detection and recovery status

- a. Output frequency
 - b. Motor Speed (RPM, % or engineering units)
 - c. Motor current
 - d. Calculated Motor torque
 - e. Calculated Motor Power (kW)
 - f. DC bus voltage
 - g. Output voltage
 - h. Heat sink temperature
 - i. Analog input values
 - j. Analog output values
 - k. Elapsed Time Meter (resettable)
 - l. Kwh meter
 - m. Digital input status
 - n. Digital output status
13. The VFD shall be capable of automatically restart after an over current, over voltage, under voltage, or loss of input signal protective trip. The number of restart attempts, trial time, and time between reset attempts shall be programmable.
14. The VFD shall be capable of starting into a rotating load (forward or reverse) and accelerate or decelerate to set-point without safety tripping or component damage.
15. The VFD shall be capable of DC injection braking that can be employed to stop a freewheeling motor prior to starting to avoid over-voltage nuisance tripping.
16. The VFD shall have the ability to be programmed to automatically extend the ramp down time, as required, to keep the drive from tripping on over voltage caused by regeneration of power by the load.
17. The VFD shall have the following protection circuits. In the case of a protective trip, the drive shall announce the fault condition to the keypad display:
- a. Over-current
 - b. Over-voltage
 - c. Under-voltage
 - d. Over temperature, Heat sink temperature
18. Speed Command Input shall be via any of the following:
- a. Keypad
 - b. Two analog inputs, each capable of accepting a 0-20 ma, 4-20 ma, 0-10V signal, and direct N1 1000 temperature sensor input.
 - c. Serial communication.

Compressors:

1. Fully hermetic scroll type compressors with overload and short cycle protection with minimum on and off timers.
2. Factory rubber-in-shear mounted for vibration isolation.
3. Reverse rotation protection capability.
4. Crankcase heaters shall only be activated during compressor off mode.

Coils:

1. Evaporator Coil:
 - a. Intertwined circuiting constructed of aluminum fins mechanically bonded to seamless copper tubes.
 - b. Full-face active type during full and part load conditions.
 - c. Coils shall be leak tested at 150 psig and pressure tested at 650 psig.
2. Condenser Coils:
 - a. Condenser coils shall be copper tubes with aluminum fins.
 - b. Air-cooled condenser coils shall be leak tested at 150 psig and pressure tested at 650 psig.

Outdoor-Air Hood Assembly:

1. Factory-installed manual outdoor-air damper shall allow intake of up to 25% nominal airflow (on units not equipped with optional economizer).

Heating Section:

1. Not required.

Refrigerant Components:

Unit shall be equipped with dual refrigerant circuits, each containing:

1. Filter drier.
2. Moisture indicating sight glass.
3. Thermostatic expansion valve.
4. Fusible plug.

Filter Section:

1. Filter section shall consist of 2-in. thick, MERV (Minimum Efficiency Reporting Value) 7 disposable fiberglass filters of commercially available sizes.
2. Factory 2-in. filter track shall allow easy field conversion to accept 4-in. thick, disposable fiberglass filters of commercially available sizes.

Controls, Safeties, and Diagnostics:

Unit shall be equipped with the following protections:

1. Compressors:

- a. Overcurrent using calibrated circuit breakers (shuts down individual compressor).
- b. Crankcase heaters.
- c. High-pressure switch (shuts down individual circuit, automatic reset type).
- d. Low-pressure switch (shuts down individual circuit, automatic reset type).
- e. Check filter switch.
- f. Phase Monitor protection.

2. Belt-Drive Fan Motors:

- a. Overcurrent protection manual reset circuit breakers.

Operating Characteristics:

1. Unit shall be capable of starting and running at 115° F ambient outdoor temperature per maximum load criteria of AHRI Standard 340/360, latest edition.
2. Unit shall be capable of mechanical cooling operation down to 32 F ambient outdoor temperature (-20 F with low ambient accessory).
3. Provides multi-stage cooling capability.

Motors:

1. Compressor motors shall be cooled by suction gas passing over motor windings.
2. Condenser-fan motors shall be 3-phase, totally enclosed type with permanently lubricated ball bearings and internal over-temperature protection.
3. Supply and exhaust fan motors shall be of the 3-phase, NEMA (National Electrical Manufacturers Association) rated, open drip-proof (ODP), ball bearing type, inverter rated with efficiencies per EISA (Energy Independence and Security Act) of 2007 (U.S.A.) requirements.

Electrical Requirements:

1. All unit power wiring shall enter unit cabinet at a single location.
2. Provide a Disconnect for the AHU. Provide one point of electrical service.

Special Features:

1. Digital Compressor: A digital compressor shall be available on the lead circuit for constant volume and variable air volume configurations. The compressor shall have a control system capability of unloading this compressor in an infinite number of steps from 100% of unit capacity down to 50% of compressor capacity.
 - a. Hot gas reheat mode shall mix a portion of the hot gas from the discharge of the compressor with the hot liquid refrigerant leaving the condenser coil to create a two-phase heat transfer in the system, resulting in a neutral leaving-air temperature. The system shall be equipped with modulating control valves to provide precise leaving-air temperature control. On-off, cycling type control shall not be acceptable.
4. Pleated Air Filters: Unit shall be factory equipped with MERV 7 pleated filters having the following characteristics:
 - a. Efficiency of no less than 30% based on testing per ASHRAE Standard 52.
 - b. Minimum average arrestance of 95%.
3. Suction and Liquid Service Valves shall be equipped with ball type service valves in the suction and liquid line for each circuit.
4. Discharge Service Valve: Unit shall be equipped with a ball type service valve in the discharge line of each circuit.
5. Replaceable Core Filter Drier: Unit shall be equipped with a replaceable core filter drier in each liquid line.
6. Provide units with a three-phase monitor.
7. Short Circuit Current Rating (SCCR): Provide with an SCCR rating of 10kA for 208/230 and 460 volt units. An optional SCCR of 5kA can be provided for 208/230 and 460 volt units if fused overcurrent protection is provided at the unit.
8. Low Compressor Sound Blanket: Low compressor sound blanket accessory shall be available for field installation.

2.3 FIELD SERVICES REQUIREMENTS

A. Field Inspections:

1. No Additional Requirements.

Start-up/Acceptance Testing:

1. Do not operate any of the specified units for any purpose, temporary or permanent, until the ductwork is clean, filters and remote controls are in

place, bearings lubricated, and manufacturers' instructions have been followed.

2. Do not operate the unit until ductwork is attached, filters are in place, bearings lubricated (if applicable), condensate drain and natural gas piping is installed, belts aligned and all SHIPPING BRACES are removed. Operate the supply air fan and ensure all screws are torqued and the fan is operating properly.
3. To ensure the proper startup of the new unit for the first time, factory trained personnel shall be provided to witness the initial startup of the equipment.

Training:

No Additional Requirements.

2.4 PRODUCT, EQUIPMENT, MATERIAL AND/OR FIELD SERVICES WARRANTY REQUIREMENTS

- A. AHU manufacturer shall provide a standard parts warranty that covers a period of one year from unit startup or 18 months from shipment, whichever occurs first. This warrants that all products are free from defects in material and workmanship and shall meet the capacities and ratings set forth in the manufacturer's catalog, bulletins and this specification.

2.5 PRODUCT, EQUIPMENT, MATERIAL AND/OR FIELD SERVICES SUBMITTAL REQUIREMENTS

- A. Shop drawings shall be submitted which show the following:

1. Size of equipment footprint and cabinet dimensions.
2. Location of access doors and general layout of the air handler components in the cabinet.
3. Location of electrical connection point.

- B. Manufacturer shall provide a list of recommended spare parts.

Provide literature that indicates dimensions, weights, capacities, ratings, fan performance, gauges and finishes of materials, and electrical characteristics and connection requirements.

- a. Provide data on filter media, filter performance; filter assembly, and filter frames.
- b. Provide computer generated fan curves with specified operating point clearly plotted.
- c. Manufacturer's Installation Instructions.

PART 3 - EXECUTION

3.1 INSTALLER QUALIFICATIONS

- A. For other than TDCJ personnel, installing entity shall be a company licensed as a Class A HVAC contractor by the State of Texas and with at least five years of experience in the installation of the type of equipment to be supplied.

3.2 PREPARATION

- A. Installation activities shall be coordinated with unit security and maintenance personnel prior to start of work to ensure no conflicts with other work or activities at the unit where the equipment is being installed.

3.3 EXECUTION REQUIREMENTS.

- A. No additional requirements.

3.4 QUALITY CONTROL

- A. No additional requirements.

3.5 COMMISSIONING

- A. No additional requirements.

3.6 EXECUTION SUBMITTALS

- A. Documentation of requirements shown in Section 3.1 above.

3.7 INSTALLATION AND/OR WORKMANSHIP WARRANTY REQUIREMENTS

- A. No additional requirements.

3.8 CLOSE-OUT

- A. No additional requirements.

END OF SECTION

[Revision 07/2017]

SECTION 26 00 00 - BASIC ELECTRICAL METHODS [Standard TDCJ Specification]

PART 1 - GENERAL

1.1 SUMMARY

- A. General requirements for electrical installations, including electrical connections to equipment specified under other sections, if applicable.

PART 2 - PRODUCTS, EQUIPMENT, MATERIALS AND/OR REQUIRED FIELD SERVICES

2.1 GENERAL REQUIREMENTS:

- A. Brand or manufacturer's references are descriptive only, and indicate type and quality to be provided. All references to brand or manufacturer names shall be interpreted to include the language "or A/E approved equal", unless advertised as a proprietary purchase under Government Code, Title 10, Subtitle D, Section 2155.067. Any brand or manufacturer meeting specifications will be considered, irrespective of the language "or A/E approved equal" appearing in conjunction with the brand or manufacturer name.
- B. Equipment, products, material, and/or services provided under Division 26 shall comply with:
 1. Terms and conditions of the electrical utility and other authorities having lawful jurisdiction pertaining to the work required.
 2. National Electrical Code (NEC).
 3. National Electrical Contractors Association (NECA) Standards
 4. National Electrical Safety Code (NESC).
 5. American National Standards Institute.
 6. Conform to applicable codes and regulations regarding toxicity of combustion products of insulating materials.
 7. All material shall be listed, inspected, and approved by a nationally accepted testing laboratory such as UL and/or ETL for purpose and conditions. All material shall bear the UL or ETL label where available.
- C. The electrical requirements for equipment specified in Division 26 and other Divisions, if applicable, are based on information available at the time of design.
 1. If furnished elements have electrical requirements other than specified, make required changes to wire and conduit size, controls, overcurrent protection, installation accommodations, and perform coordination with other trades as required.

2. Employ an A/E, either directly or by contract, to sign/seal required changes and document on an RFI.

2.2 PRODUCT, EQUIPMENT AND/OR MATERIAL REQUIREMENTS

- A. No splices or taps with crimp or indenter-type connectors.
- B. All bolts, nuts, and washers used to connect connections and terminations to bus bars or other termination points shall be zinc-plated, cadmium-plated, or steel.
- C. As required per individual Division 26 Specification Sections.

2.3 GENERAL REQUIRED FIELD SERVICES

- A. Field Inspections: If required for warranty purposes for elements provided under Division 26, provide for inspection of installation by manufacturer trained and certified personnel.
- B. Start-Up: If required for warranty purposes for elements provided under Division 26, provide for start-up by manufacturer trained and certified personnel.
- C. Training: If required for warranty purposes for elements provided under Division 26, provide for training by manufacturer trained and certified personnel.

2.4 GENERAL WARRANTY REQUIREMENTS (PRODUCT, EQUIPMENT, MATERIAL, AND/OR FIELD SERVICES)

- A. As required by individual Specification Sections.

2.5 GENERAL SUBMITTALS (PRODUCT, EQUIPMENT, MATERIAL, AND/OR FIELD SERVICES)

- A. Manufacturer's catalog data, cut sheets, testing data, schematic drawings, etc. for elements to be provided under Division 26.
- B. For elements specified under other than Division 26 sections requiring electrical connection, if applicable, shop drawings, product data, and manufacturer's instructions for proposed elements demonstrating electrical connection requirements together with product data for proposed wiring device(s) indicating application conditions and limitations of use stipulated by Product testing agency.

PART 3 - EXECUTION

3.1 GENERAL INSTALLERS QUALIFICATION REQUIREMENTS

- A. For installers other than TDCJ personnel: For all installation work under Division 26 Sections:
 1. Electrician licensed under Subchapter D, Occupations Code, unless otherwise specifically identified for special installations.

2. A person with documented experience for installations similar in scope, or larger, shall be on project site while installation of elements provided under Division 26 is in progress.

3.2 GENERAL PREPARATION REQUIREMENTS

- A. Determine connection locations and requirements for all elements to be electrically connected as part of project scope, including elements specified in other Divisions, if applicable.
 1. Refer to manufacturer reference drawings to determine manufacturer specific conduit and wiring requirements and provide conduit, wiring, boxes and devices as indicated on these documents.
 2. Provide and install matching cord/receptacle for all equipment not furnished with such equipment and required for scope of project.
 3. Verify and install power and control wiring as required to serve equipment per manufacturer recommendations and instructions and per NEC.
- B. Sequence rough-in of electrical connections to coordinate with installation schedule for equipment.
- C. Sequence electrical connections to coordinate with start-up schedule for equipment.

3.3 GENERAL INSTALLATION REQUIREMENTS

- A. Fabrication, erection and installation of the complete electrical system shall be done in accordance with accepted good practice and shall proceed in an orderly manner so as not to impede the progress of the project.
 1. Comply with latest published version of:
 - a. American National Standards Institute (ANSI)
 - b. American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE) – 90.1
 - c. National Electrical Code (NEC)
 - d. National Electrical Safety Code (NESC)
 - e. National Electrical Installation Standards (NEIS)
 - f. National Electrical Testing Association (NETA)
 2. Check all areas and surfaces where electrical equipment material is to be installed, removed or relocated and report any unsatisfactory conditions before starting work. Commencement of work signifies acceptance of existing conditions.
 3. Surfaces requiring coatings shall be completed prior to installation of any electrical work on these surfaces.

- B. All equipment and material shall be installed and connections made in accordance with the applicable manufacturer's recommendations, instructions and applicable trade standards.
- C. All work shall be concealed in walls, ceilings, chases, etc. to the extent possible, including conduit serving roof-mounted equipment.
 - 1. If project objectives require provision of roof-mounted equipment requiring electrical connection, if available from proposed manufacturer, equipment that provides for connections interior to the mounting curb shall be provided.
 - a. Where connections interior to the mounting curb are not available from proposed manufacturer, connections shall be accomplished meeting specifications for Exposed areas.
 - 1) Rigid conduit shall be attached and supported per trade standards.
 - 2) Roof mounting of conduit and/or provided supports shall be approved by A/E prior to installation.
 - 2. In areas identified as Exposed:
 - a. All conduit shall be rigid galvanized steel secured with two-hole straps with security-type screws to within 12-inches of enclosure or connection. Make final connections to equipment using flexible conduit. Use liquid tight flexible conduit with watertight connectors in damp or wet locations.
 - b. All junction boxes and similar elements, regardless of location and conditions, shall not have knock-outs and be provided with covers secured with security type screws.
- D. Do not install conductors until raceway system is complete and properly cleaned.
- E. Pulling Lubricant: Use a manufacturer-approved wire-pulling compound when pulling large conductors and where necessary for smaller conductors.
- F. Appearance: Neatly and securely bundle or cable all conductors in an enclosure using nylon straps with a locking hub or head on one end and a taper on the other.
- G. Tighten electrical connectors and terminals, including screws and bolts, in accordance with Manufacturer's published torque tightening values. Where Manufacturer's torqueing requirements are not indicated, tighten connectors and terminals to comply with tightening torques specified in UL 486A and UL 486B.
- H. For electrical connections to electrically energized equipment:
 - 1. Install disconnect switches, controllers, control stations, and control devices as required for project scope.
 - a. Modify equipment control wiring with terminal block jumpers as required.

2. Install interconnecting conduit and wiring between devices and equipment.
 - a. Unless otherwise indicated, connection "runs" greater than five (5)-ft in length shall be made utilizing rigid conduit to within 12-in of connection. Make final connections to equipment using flexible conduit. Use liquid tight flexible conduit with watertight connectors in damp or wet locations.
 - b. Make wiring connections using wire and cable with insulation suitable for temperatures encountered in heat producing equipment.
 - c. Install receptacle outlet where connection with attachment plug is required. Install cord and cap where field-supplied attachment plug is required. Install matching cord/receptacle for all equipment provided for project scope not furnished with such equipment.
 - d. Install suitable strain-relief clamps and fittings for cord connections at outlet boxes and equipment connection boxes.
3. Check and modify phase connections as required for proper motor rotation.
4. Make final connection to equipment only after equipment supplier (TDCJ Maintenance personnel for existing) verifies acceptance to receive and approves energization in writing.

3.4 GENERAL QUALITY CONTROL REQUIREMENTS

- A. Perform all testing required by Division 26 Sections for conformance with specifications, project requirements and required by manufacturers of elements installed as part of project scope prior to connection to permanent utility unless other is approved in writing.

3.5 COMMISSIONING

- A. Where complete electrical systems are installed as part of project scope, in addition to requirements under other Division 26 Specification Sections, prepare Prefunctional Checklist(s) and Functional Performance Test(s) (FPT) for each independent electrical system, developed from, at minimum, Manufacturer's Detailed Start-Up procedures, full Sequences of Operation, Operating and Maintenance data, Performance data, Functional Performance Test Procedures, Control Drawings, and details of other required test(s) and as recommended by applicable trade testing standards.
 1. Incorporate Shop Drawings and other product submittal data for elements provided under other Divisions.
 2. Incorporate information from Start-up certification forms.
 3. Incorporate testing required to confirm accuracy and functionality for interfaces between two systems or equipment from differing manufacturers.

3.6 GENERAL INSTALLATION SUBMITTALS

- A. Ten (10) days prior to Commissioning or Pre-Final Inspection, whichever is earlier, submit drafts of Pre-functional Checklist(s) and Functional Performance Test(s) for review and approval.

3.7 GENERAL CLOSE-OUT REQUIREMENTS

- A. Submit completed Pre-functional Checklist(s) and Functional Performance Test(s).

END OF SECTION

[Revised May 2016]