



JOLIET JUNIOR COLLEGE

1901

(Business & Auxiliary Services)
1215 Houbolt Road
Joliet, Illinois 60431-8938

INSTRUCTIONS TO BIDDERS

Sealed proposals are invited for **WELDING LAB SAFETY IMPROVEMENTS** pursuant to specifications. Vendors who do not submit a bid or who do not respond with a "no bid" will be removed from our vendor list for this item.

PROPOSALS:

Proposals will be received and publicly read aloud by the Joliet Junior College District #525, Joliet, Will County, Illinois, at the place, date and time hereinafter designated. You are invited to be present if you so desire.

PLACE: Joliet Junior College District #525
Office of Facility Services
L-BUILDING Room #L1005
1215 Houbolt Road
Joliet, IL 60431-8938

DATE: APRIL 20, 2011

FAXES ARE NOT ACCEPTABLE

TIME: 9:00 AM

Proposals received after this time will not be accepted.

Proposals must be made in accordance with the instructions contained herein. They shall be submitted on the forms provided on the College's website in a sealed envelope addressed to the Director of Business & Auxiliary Services, L-Building Room L1005, plainly marked, with the Bidder's Name and Address and the notation:

BID: WELDING LAB SAFETY IMPROVEMENTS

PRE-BID MEETING:

A mandatory pre-bid meeting will be held on April 13, 2011 at 9:00AM. The meeting will be at

B11023

the Main Campus, L Building, Room L1005, 1215 Houbolt Road, Joliet, IL. Bidders who do not attend the mandatory pre-bid meeting will have their bid returned unopened.

DELIVERY:

All prices must be quoted F.O.B., Joliet Junior College, 1215 Houbolt Road, Joliet, IL 60431 unless otherwise noted.

TAX EXEMPTION:

Joliet Junior College District #525 is exempt from Federal, State, and Municipal taxes.

SIGNATURE ON BIDS:

Joliet Junior College District #525 requires the signature on bid documents to be that of an authorized representative of said company.

Each bidder, by making his bid, represents that he has read and understands the bidding documents and that these instructions to bidders are a part of the specifications.

BIDDING PROCEDURES:

1. No bid shall be modified, withdrawn, or cancelled for sixty (60) days after the bid opening date without the consent of the College Board of Trustees.
2. Changes or corrections may be made in the bid documents after they have been issued and before bids are received. In such case, a written addendum describing the change or correction will be issued by the College to all bidders of record. Such addendum shall take precedence over that portion of the documents concerned, and shall become part of the bid documents. Except in unusual cases, addendum will be issued to reach the bidders at least five (5) days prior to date established for receipt of bids.
3. Each bidder shall carefully examine all bid documents and all addenda thereto, and shall thoroughly familiarize themselves with the detailed requirements thereof prior to submitting a proposal. Should a bidder find discrepancies or ambiguities in, or omissions from documents, or should they be in doubt as to their meaning, they shall, at once, and in any event, not later than ten (10) days prior to bid due date, notify the College who will, if necessary, send written addendum to all bidders. The college will not be responsible for any oral instructions. All inquiries shall be directed to the Director of Business & Auxiliary Services. After bids are received, no allowance will be made for oversight by bidder.

SUBSTITUTIONS:

1. Each bidder represents that his bid is based upon the materials and equipment described in the bidding documents.
2. Any dealer bidding an equal product must specify brand name, model number, and supply specifications of product. The Board shall be the sole judge of whether an article shall be deemed to be equal.
3. A bidder's failure to meet the minimum specifications as listed may result in disqualification of his bid.

REJECTION OF BIDS:

The bidder acknowledges the right of the College Board to reject any or all proposals and to waive informality or irregularity in any proposal received and to award each item to different bidders or all items to a single bidder. In addition, the bidder recognizes the right of the College Board to reject a proposal if the proposal is in any way incomplete or irregular. The College Board may also award, at its discretion, only certain items quoted on. The College Board also reserves the right to reject the proposal of a Bidder who has previously failed to perform properly or complete on time contracts of a similar nature or a bid of a Bidder when investigation shows that Bidder is not in a position to perform the contract.

ACKNOWLEDGEMENT OF ADDENDA:

Signature of company official on original document shall be construed as acknowledgement of receipt of any and all addenda pertaining to this specific proposal. Identification by number of addenda and date issued should be noted on all proposals submitted.

FAILURE TO ACKNOWLEDGE RECEIPT OF ADDENDA ON PROPOSAL SUBMITTED MAY RESULT IN DISQUALIFICATION OF PROPOSAL.

Bidders who obtain a copy of the bid from our web site are responsible for checking back on the site for any addenda issued.

CLERICAL ERRORS:

If applicable, all errors in price extensions will be corrected by Joliet Junior College and totals for award determination corrected accordingly, unless the bidder specifies that no change be made in the total submitted. In this case, all incorrect price extensions will be noted at "lot", and award determination made on the basis of total price submitted.

SAMPLES:

Bidder may be required to furnish samples upon request and without charge to the College.

BID SECURITY:

A certified check or bank draft or bid bond, made payable to Joliet Junior College District #525, Will County, Illinois, **MUST** be submitted with the bid in the amount of **five (5) percent of your total bid**. The bid security will be forfeited by the successful bidder in the event of the bidders failure to enter into a contract. Checks or drafts of unsuccessful bidders will be returned as soon as practicable after opening and checking the bids.

PAYMENTS:

Certified Payroll

1. With each pay application, contractors shall submit certified payroll in a format acceptable to Junior College District #525.

Partial Lien Waivers

1. The contractors' partial lien waiver, for the full amount of the payment, shall accompany the first payment application. Each subsequent payment application shall be accompanied

by the contractor's partial waiver, and by partial waivers from all subcontractors and suppliers who were included in the immediately preceding payment application, to the extent of that payment.

2. Lien waivers from the Contractor and all subcontractors and suppliers shall accompany the first payment application when the amount of payment exceeds 50 percent of the total contract sum.

Final Lien Waivers: The contractor's request for final payment shall include:

1. The contractor's final lien waiver in the full amount of the contract.
2. Final lien waivers in the full amount of their contracts from all subcontractors and suppliers for which final lien waivers have not previously been submitted.

INSURANCE:

The successful bidder will be required to furnish a certificate of insurance in the following amounts:

The insurance coverage required here-in-under shall be the minimum amounts maintained by the Contractor and Subcontractors until all Work is completed and accepted by the Owner.

The Contractor will purchase and maintain "all risks" Builder's Risk property insurance subject only to such exclusions as have been specifically approved by the Owner in writing.

A. Workers Compensation

1. State: Statutory
2. Applicable Federal: Statutory
3. Employer's Liability:
 - a. \$1,000,000 per Accident
 - b. \$1,000,000 Occupational Disease

B. Commercial Comprehensive Liability

1. Each Occurrence: \$2,000,000
2. Products/Completed Operations Aggregate: \$2,000,000
3. Personal/Advertising Injury: \$2,000,000
4. General Aggregate: \$2,000,000
5. Policy shall include: \$2,000,000
 - a. Premises: Operations
 - b. Independent Contractors Liability
 - c. Products and Completed Operations: Maintained for minimum of one year after date of final Certificate for Payment, in full amount of the limits specified above.
 - d. Contractual Liability
 - e. Coverage for explosion (x), collapse (c), and underground (u).
6. The Commercial Comprehensive Liability policy shall include a contractual liability

endorsement insuring the indemnity required by the contract. The indemnities shall be named as additional insured on the Contractor's Commercial Comprehensive Liability policy using Form CG 20 10 or its equivalent and shall name Joliet Junior College, its Board of Trustees, officers, employees and agents as additional insured's at a minimum. The Contractor hereby agrees to effectuate the naming of such additional insured's as unrestricted additional insured's on the Contractor's policy. The additional insured endorsement shall provide the following:

- a. That the coverage afforded the additional insurance will be primary insurance for the additional insurance with respect to claims arising out of operations performed by or on behalf of the Contractor.
- b. That the policy shall contain a thirty (30) day notice of cancellation prior to the effective date thereof.
- c. That the additional insureds have other insurance which is applicable to the loss, such other insurance will be on an excess or contingent basis.
- d. That the amount of the company's liability under the insurance policy will not be reduced by the existence of such other insurance.
- e. That the additional insureds will not be given less than thirty (30) days prior written notice of any cancellation thereof.
- f. That the Contractor agrees to indemnify the College for any applicable deductibles.
- g. That the insurance policy from an A.M. Best rated "secured" Illinois State licensed insurer.
- h. The Contractor shall provide the College with a copy of its insurance policy or in the alternative and subject to the College's agreement, an excerpt of a page from the actual policy evidencing the additional insureds as provided for herein.
- i. Contractor acknowledges that failure to obtain such insurance on behalf of the College constitutes a material breach of the contract and subjects Contractor to liability for damages, indemnification and all other legal remedies available to College. The Contractor is to provide the College at all times with a certificate of insurance, evidencing the above requirements have been met. The failure of the College to object to the contents of the certificate or the absence of it shall not be deemed a waiver of any and all rights held by the College.
- j. That enclosed is a copy of the endorsement providing additional insured's status and that the Contractor will furnish a Certificate of insurance evidencing the foregoing provisions.
- k. Please include clause below in the policy:
It is agreed that Joliet Junior College, its Board of Trustees, officers, employees, agents and (Architect/Engineer Name) are additional insureds on the policy.

C. Business Auto Liability (including owned, non-owned and hired vehicles).

1. Bodily injury
 - a. \$1,000,000 per person

- b. \$2,000,000 per accident
2. Property damage: \$1,000,000 OR
3. Combined Single limit: \$1,000,000

D. Umbrella

1. Umbrella Excess Liability: \$4,000,000
2. If the Contractor's Workers Compensation, Commercial General Liability and Business Auto policies do not have these minimum limits, an Umbrella policy written by an insurance company acceptable to the Owner may be used to meet the minimum limits required.

All such policies of insurance shall be written by companies approved by the College and Certificates of Insurance shall be furnished to the College. The College shall be listed as an additional insured under such policies. Each policy shall require at least 30 days notice to the College in the event of cancellation. The contractor agrees to indemnify, defend, and hold harmless the College from and against all suits or claims, which may be based upon any injury to or death of any person or persons or damage to property, which may occur or which may be alleged to have occurred in the course of the performance of this Agreement by the Contractor, whether such sum claim shall be made by an employee of the Contractor, by a third person or their representatives, or whether or not it shall be claimed that the said injury, death, or damage or cause through a negligence act or omission of the Contractor; and the all charges of attorneys and all costs and other expenses arising there from or incurred in connection therewith; and if any judgment shall be rendered against the College in any such action or actions, the Contractor, at its own expense, shall satisfy and discharge the same.

PERFORMANCE BONDS:

The successful bidder on this proposal must furnish a performance bond and a labor and material payment bond made out to Junior College District #525, prepared on an approved form, as security for the faithful performance of their contract, within ten (10) days of their notification that their bid has been accepted. The surety thereon must be such surety company or companies as are authorized and licensed to transact business in the State of Illinois and have an A-XIV best rating. Attorneys in fact who sign bid bonds must file with each bond a certified copy of their power of attorney to sign said bonds. The performance bond is an amount equal to one hundred and ten percent (110%) of the contract sum. Such bonds shall be in force from the date of signing of the contract until one year after issuing of final certificate of payment. The cost of the bonds shall be included in the bidder's proposal.

LAWS AND ORDINANCES:

In execution of the work, the Contractor shall comply with applicable state and local laws, ordinances and regulation, the rules and regulations of the Board of Fire Underwriters, and OSHA standards.

DAMAGE AND NEGLIGENCE:

The Contractor agrees to indemnify and save harmless the College and employees from and against all loss, including costs and attorney's fees, by reasons or liability imposed by law upon the

College for damages because of bodily injury, including death at any time resulting therefrom, sustained by any person or persons or on account of damage to property including loss of use thereof as provided in the General Conditions and Supplementary Conditions.

College shall not be responsible for damages, delays, or failure to perform on its part resulting from acts or occurrences of force majeure. "Force majeure" means any (a) act of God, landslide, lightning, earthquake, hurricane, tornado, blizzard, floods and other adverse and inclement weather conditions; (b) fire, explosion, flood, acts of a public enemy, war, blockade, insurrection, riot or civil disturbance; (c) labor dispute, strike, work slow down, picketing, primary boycotts, secondary boycotts or boycotts of any kind and nature, or work stoppages; (d) any law, order, regulation ordinance, or requirement of any government or legal body or any representative of any such government or legal body; (e) inability to secure necessary materials, equipment, parts or other components of the project as a result of transportation difficulties, fuel or energy shortages, or acts or omission of any common carriers; or (f) any other similar cause or similar event beyond the reasonable control of College.

INVESTIGATION OF BIDDERS:

The College will make any necessary investigation to determine the ability of the bidder to fulfill the proposal requirements. Joliet Junior College reserves the right to reject any proposal if it is determined that the bidder is not properly qualified to carry out the obligation of the contract.

APPRENTICESHIP AND TRAINING PROGRAMS:

The bidder and all bidder's subcontractors must participate in applicable apprenticeship and training programs approved by and registered with the United States Department of Labor Bureau of Apprenticeship and Training. The apprenticeship and training programs(s) must be in the same trade in which the firm shall be performing work on behalf of the College under the Contract. This provision shall not apply to federally funded construction projects if, in the opinion of College, such application would jeopardize the receipt or use of federal funds in support of such project.

A STATEMENT TO THE ABOVE EFFECT HAS BEEN ADDED TO THE BID FORM. BIDDERS MUST BE A MEMBER OF AN APPROVED APPRENTICESHIP PROGRAM PRIOR TO BID OPENING ON THE PROJECT.

SUBCONTRACTORS:

Bidders must state on the proposal form all subcontractors he intends to use for this project. Failure to do so may be cause for rejection of bid.

PREVAILING WAGE RATE:

The successful bidder must pay not less than the prevailing hourly wage rate determined by the Illinois Department of Labor for the county where the contract is executed and the craft or type of worker needed to execute the contract. See the prevailing wage scale attached.

If, during the course of work under this contract, the Department of Labor revises the prevailing rate hourly wages to be paid under this contract for any trade or occupation, Owner, will notify Contractor and each Subcontractor of the changes in the prevailing rate of hourly wages. Contractor shall have the sole responsibility and duty to ensure that the revised prevailing rate of

hourly wages is paid by contractor and all Subcontractors to each worker to whom a revised rate is applicable. Revisions to the prevailing wage as set forth above shall not result in an increase in the Contract Sum.

In compliance with the Office of the Attorney General the following is also required of all bidders:

Payment of Prevailing Wage:

- The Act requires that all laborers, workers and mechanics employed by or on behalf of a public body in the construction of public works be paid the general prevailing rate of hourly wages (including allotments for training and approved apprenticeship programs, health and welfare, insurance, vacation and pension benefits) for work of a similar character in the locality in which the work is performed. See 820 ILCS 103/3. The Act contains all relevant definitions, including those for the terms “public body”, “public works” and “general prevailing rate of hourly wages”, which will assist you in the understanding its requirements and your responsibilities. See 820 ILCS 130/2.
- The Illinois Department of Labor publishes the current prevailing wage rate. See <http://www.state.il.us/agency/idol/rates/rates.htm>. The rate is revised regularly and such revision takes effect immediately.

Specifications and Contractual Language:

- Public bodies must insert a provision or stipulation requiring the payment of the prevailing wage rate into every public works resolution or ordinance, call for bids, project specification and contract. See 820 ILCS 130/4(a).
- Contractors and subcontractors must insert a provision or stipulation regarding the payment of the prevailing wage rate into every public works project and bid specification, subcontract, and contractor’s bond. See 820 ILCS 130/4(b), (c).
- Contractors or construction managers who have been awarded public works contracts must post the relevant prevailing wage rate(s) at a location on the project site that is easily accessible by workers. See 820 ILCS 130/4(f).

Record-Keeping Responsibilities:

- All contractors and subcontractors must create and keep for at least three years, records of all laborers, mechanics, and other workers employed by them on a public works project. See 820 ILCS 130/5(a) (1).
- These records must include each worker’s name, address, telephone number (if available), social security number, classification(s), hourly wages paid in each pay period, number of hours worked each day, and the starting and ending times of each work day. Each contractor and subcontractor is required to make these records available for inspection by the public body’s agents or Illinois Department of Labor officials at a reasonable time and place upon seven business days notice. See 820 ILCS 130/5(a) (1), (b).

Certified Payroll Records:

- A contractor or subcontractor participating in a public works project must also submit a Certified Payroll the public body every month. This Certified Payroll must consist of a complete copy of the records required to be kept under Section 5(a)(1) of the Act, discussed above (with the exception of daily work starting and ending times). See 820 ILCS

130/5(a)(2).

- The monthly Certified Payroll shall also include a statement signed by the contractor or subcontractor submitting that: (1) the records are true and accurate; (2) the hourly rate paid to each worker is not less than the general prevailing wage rate required; and (3) the contractor or subcontractor is aware that filing a Certified Payroll that he or she knows to be false is a class B misdemeanor. See 820 ILCS 130/5(a)(2).
- The Act requires that a public body shall keep all Certified Payrolls submitted pursuant to the Act for at least three years. See 820 ILCS 130/5(a)(2). The retention of these monthly Certified Payroll submissions for three years by public bodies is crucial to the State of Illinois' efforts to enforce the Act and will be of particular interest to the Attorney General's office in the coming months.

Failure to comply with the Act's Requirements:

- No public works project may be instituted unless the provisions of the Act have been met. The Illinois Department of Labor is empowered to sue for injunctive relief against the awarding of any public works contract, or continuation of work under any such contract, if it is not in compliance with the Act's prerequisites. Contracts that are not in compliance with the Act's prerequisites are void as against public policy. See 820 ILCS 103/11.

Please note that this is not a complete list of all relevant requirements and prerequisites under the Act. All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties. For a full understanding of all of the Act's requirements and prerequisites, as well as the text of the Act and all related regulations, please see the Illinois Department of Labor's website at www.state.il.us/agency/idol/laws/Law130.htm.

BLACKOUT PERIOD:

After the College has advertised for bids, no pre-bid vendor shall contact any College officer(s) or employee(s) involved in the solicitation process, except for interpretation of bid specifications, clarification of bid submission requirements or any information pertaining to pre-bid conferences. Such bidders or sub-bidders making such request shall be made in writing at least seven (7) days prior to the date for receipt of bids. No vendor shall visit or contact any College officers or employees until after the bids are awarded, except in those instances when site inspection is a prerequisite for the submission of a bid. During the black-out period, any such visitation, solicitation or sales call by any representative of a prospective vendor in violation of this provision may cause the disqualification of such bidder's response.

OTHER:

This contract is subject to and governed by the rules and regulations of the Illinois Human Rights Act. The Customer reserves the right to request additional information after your proposal has been submitted.

BID QUANTITIES:

The College Board will reserve the right to increase or decrease, within reasonable limits, such quantities as need requires and at the unit price stated.

BID AWARDS:

The successful contractor, and/or any contractor shall not proceed on this bid until it receives a purchase order from the college. Failure to comply is the risk of that contractor.

CHANGES TO CONTRACT AFTER BID AWARD:

There shall be no deviations from any work without a written change order. All change orders must be approved by the Director of Business & Auxiliary Services or Vice President of Administrative Services as well as executed by the successful contractor.

If a change order or aggregate of change orders are 10% or more of the contract price, and such change orders are not approved, in writing, by either the Director of Business & Auxiliary Services or Vice President of Administrative Services, the successful contractor shall not be entitled to any type of compensation for services or materials provided.

GENERAL:

Joliet Junior College is committed to a policy of non-discrimination on the basis of sex, handicap, race, color, and national or ethnic origin in the admission, employment, educational programs, and activities it operates. Inquiries should be addressed to the Director of Human Resources.

The contractor (or vendor) shall agree to save and hold harmless the Joliet Junior College District #525, the members of its College Board, its agents, servants and employees, from any and all actions or causes of action, or claim for damages, including the expense of defending suit, arising or growing out of the performance of, or failure to perform its contract.



Judy L. Mitchell
Director of Business & Auxiliary Services

JOLIET JUNIOR COLLEGE DISTRICT #525
(Business & Auxiliary Services)
1215 Houbolt Road
Joliet, Illinois 60431-8938
Telephone: (815) 280-6640
Fax: (815) 280-6631

INFORMATION PERTAINING TO OUR BIDS CAN BE FOUND AT THE FOLLOWING WEBSITE:
<http://www.jjc.edu/info/purchasing>

QUESTIONS PERTAINING TO OUR BIDS CAN BE EMAILED TO:
purchasing@jjc.edu

SECTION 11510

WELDING EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fume Extraction Arms.
- B. Dust Collector Drive Control Panel.
- C. ALTERNATE #1: Automatic Gate Controllers.

1.02 RELATED REQUIREMENTS

- A. Section 15810 - Ducts.
- B. Section 16050 - Basic Electrical Requirements.

1.03 REFERENCE STANDARDS

- A. Industrial Ventilation Guide (22nd Edition)
- B. UL (electrical codes)

1.04 SUBMITTALS

- A. Product Data: Provide data on fume extraction arms and dust collector control panels and components.
- B. Project Documents: Provide manufacturers operation and maintenance manuals and all control schematics and sequences of operation.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing of Products specified in this section with minimum three years documented experience.
- B. Installer Qualifications: Company trained and specializing in performing the work on this section with minimum three experience.
- C. Equipment and Components: Provide products that bear the UL label or marking.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver just in time for project installation or provide local storage and handling of equipment specified in the project.
- B. Coordinate project delivery with academic scheduling.

1.07 WARRANTY

- A. Drive Control Panel: Provide Manufacturer's Warranty for Two Years from date of substantial completion.
- B. Automatic Gate Control Panel: Provide Manufacturer's Warranty for Two Years from date of substantial completion.

PART 2 PRODUCTS

2.01 FUME EXTRACTION ARMS

- A. Manufacturers
 - 1. PlymoVent; Model No. LM-2
 - 2. Substitutions: Approved Equal.
- B. A 6.25 inches telescopic ball bearing fume extraction arm shall be provided with a wall mounting bracket, counterweight system and weight guide tube, internal support shoulder mechanism, multi section telescopic tube, universal wrist joint, hood positioning collar and clip on hood with safety mesh all connected by 6.25" flexible hose.
 - 1. The wall mounting bracket shall be provided with 3/8" mounting bolt holes and extend from the wall surface by 15"; support a counter weight guide tube and double pulley system; a hanging flange will have a female spider pivot joint for connection to the machined steel shaft and house a ball bearing pivot and externally adjustable friction brake.
 - 2. The counterweight system shall be comprised of: counterweight guide tube mounted 2" off the wall surface and directly to the wall mounting bracket; a double pulley and cable guide sleeve system mounted to the wall bracket and machined steel pivot to smoothly feed the cable to counterweight. The counterweight will not exceed 10 lbs and will have a pulley and cable connection point. The cable will be fed through the shoulder joint and down three square shafts; the shafts will decrease in size and will have nylon bushings to allow for smooth telescopic action.
 - 3. The internal support shoulder mechanism shall consist of an airfoil friction pad pivot connected to the largest square telescopic tube, a short counterbalance steel spring connected to the telescopic tube and the airfoil shoulder pivot.
 - 4. The universal wrist joint will be supplied with an adjustable double plane double pivot to allow the hood to be angled 110 degrees throughout a 360 degree rotation; connect the hood mounting collar and 11.5" diameter positioning ring with ratcheted manual shut off damper.
 - 5. The capture hood will be durable spun metal hood housing a safety mesh to prevent debris from entering the arm. It will have a specific cone shape angle of 60 degrees for greatest capture efficiency and will have an opening of 11.75" in diameter connected to the hood collar through the use of an adjustable latch. The hood will have the capacity to be retrofitted with a halogen light kit.
 - 6. The flexible hose will be flame resistance double wall, neoprene coated, woven polyamide with an internal steel helix.
 - 7. The 6.25" diameter fume extraction arm shall have precise airflows and static pressure curves as tested in accordance with AMCA standard 500-D-98.

2.02 DRIVE CONTROL PANEL

- A. Manufacturers
 - 1. IVEC Systems; Intelligent Panel System (IPS).
 - 2. Ecogate Systems.
 - 3. PlymoVent.
- B. Variable frequency drive and controls to modulate dust collector fan speed to match air flow requirements of welding booths in use.
 - 1. Nema 12 enclosure.

2. 0-5 Inch Differential Pressure Transducer.
 3. Hand/Off/Auto selector switch.
 4. Thermostatically controlled fan with filter.
 5. Electrical Diagram and termination/installation diagram.
 6. Drive ok indication LED.
 7. Emerson Control Techniques Frequency drive with Modbus RTU Communications port.
 8. Remote Start/Stop Capability.
 9. Zero Speed Relay.
 10. Main Fuses.
 11. Programming receptacle for easy programming and cloning.
 12. Pilot tube kit for ambient air cleaner with installation bracket, tie straps, brass barb for ductwork, and 1/4 - inch tubing between control panel and ductwork sensor.
 13. Electrical: 460/3/60.
- C. Sequence of Operation;
1. The enclosure shall have a "Hands-Off-Auto" selector switch on the front door. In "Hand" position the fan will run at a preset speed that is set in a VFD parameter. In "Auto" position the fan speed will follow the differential pressure transducer to maintain the inches of w.c. that is set in a VFD parameter. In "Off" position the VFD is disabled and the fan will not run.
 2. As dampers are manually opened and closed the output of the differential pressure transducer changes in relation to the differential pressure and the VFD controls the speed of the fan in maintaining the inches of water column.

2.03 AUTOMATIC GATE CONTROLLERS

- A. Manufacturers
1. IVEC Systems; Steward System.
 2. Ecogate Systems.
 3. PlymoVent.
- B. Automatic control system to be open and close gates as welders are being utilized. System shall communicate with dust collector drive control panel for operation of fan speed.
1. Nema 1 fiberglass enclosure.
 2. 6" color touch screen.
 3. 4-wire power and data control cable (network) between control panel and gate controller.
 4. 24 VDC power supply.
 5. 24 VDC DC to DC converter.
 6. DC control fuses.
 7. Terminals.
 8. 115 VAC power cord.
 9. UL Label.
 10. Current sensors with amp adjustment setpoint.
 11. Input/Output box for communication between damper gate controller.
 12. 24 VDC motorized gates.
 13. Power and data cable network taps.
 14. Network repeaters as required for system.

15. All other necessary operating equipment, devices and system components not specifically listed, as required for a complete and operational automatic control system.
- C. Sequence of Operation:
1. When the Drive Control Panel (DCP) "Hand-Off-Auto" selector switch is in the "Hand" position, the fan will run present speed that is set in a VFD parameter and can be changed from the Automatic Gate Controller (AGC). In "Auto" position the fan speed shall follow the differential pressure transducer to maintain the inches of w.c. that is set in a VFD parameter known as "closed loop" and can be changed from the AGC. In "Off" position the VFD shall be disabled and the fan shall not run.
 2. Controls must be wired and UL Approved in a UL 508A Panel assembly facility.
 3. When the DCP is in "Auto" mode, the AGC shall control the starting and stopping of the fan via the Modbus serial communications link.
 4. If the Modbus serial communication cable is not connected or the power to the VFD is removed a message indicating "No Comms" shall be displayed on the AGC and cannot be reset until communications is re-established.
 5. The status of the VFD shall be monitored and if it should fault a message shall be displayed on the AGC indicating "VFD Fault". The VFD fault shall be capable of being reset from the AGC.
 6. A drive status screen shall display the motor current, motor frequency and the inches of water column, as well as if the fan is enabled and if it is running.
 7. Each damper, air cleaner and dust collector shall have a dedicated I/O module. Sensors and/or switches and the damper motor/solenoid shall be wired to the I/O modules. Each I/O module shall have a Node number assigned to it and set with switches mounted in the module. The AGC shall monitor the Network status for each node and when it detects that node is "Configured" and "Online" it shall enable the program for that node. Dampers shall be assigned a block of node numbers as well as air cleaners, filters, dust collectors and auxiliary devices.
 8. The AGC shall monitor the inputs to automatically open and close dampers.
 9. Whenever an input calls for a damper to open, the AGC shall send a signal to the damper to open it and also send a "Run" signal to the VFD that starts the fan. Whenever the "Open" signal from a damper is no longer calling for the damper to be open, an off-delay timer shall start timing and when it times out the "run" signal to the VFD is removed and the fan shall stop. For set up and trouble shooting, dampers shall be capable of being operated manually by selecting the Manual Mode on the AGC screen.
 10. Sweep Mode: In the event the main duct velocity is unable to convey dust velocity is unable to convey dust to the collector and there is fallout, a sweep mode shall be enabled so the fan can increase to maximum capacity to send material to the dust collector.
 11. A three color light indicated when to change the filter (green indicates ok, yellow indicates filter warning, and red indicates filter needs to be changed).
 12. The system shall be provided with sequential pulse controllers (SPC) to clean the dust collector filters when the fan stops. If the differential pressure switch indicates a high pressure in the dust collector, the SPC shall cycle until the pressure drops below the setting. The cleaning system must be on the network.
 13. Motorized Gates: Shall be 24 Vdc, 100% clear through, non pneumatic, limit

switch interruption must be in a separate enclosure, maximum 2 second 100% open time when 24 vdc is applied and maximum 2 second 100% close time when 24 vdc is applied. Must have a seal at the blade entry to guarantee the 100% seal around closed blade and 100% seal at the duct entry when blade is removed from the air stream. 24 v wire Quick disconnect coupling. Individually fused at the gate.

14. DCP to include a zero stop relay, electrical termination diagrams, an enclosure to meet NFPA 70E with a filtered fan thermostatically controlled, completely programmed to communicate with the AGC.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that utility services are available, in proper location and ready for use.
- B. Beginning of installation means installer accepts existing conditions.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Provide Owner's manuals including maintenance instructions and warranties.

3.03 DEMONSTRATION

- A. Provide 4 hour Owner demonstration of equipment operation.

END OF SECTION

SECTION 15810

DUCTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Metal ductwork.
- B. Duct cleaning.

1.02 RELATED REQUIREMENTS

- A. Section 11510 - Welding Equipment.

1.03 REFERENCE STANDARDS

- A. ASTM A 36/A 36M - Standard Specification for Carbon Structural Steel; 2008.
- B. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2009a.
- C. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2010.
- D. NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilating Systems; National Fire Protection Association; 2009.
- E. SMACNA (DCS) - HVAC Duct Construction Standards - Metal and Flexible; Sheet Metal and Air Conditioning Contractors' National Association; 2005.

1.04 REGULATORY REQUIREMENTS

- A. Construct ductwork to NFPA 90A standards.

1.05 FIELD CONDITIONS

- A. Do not install duct sealants when temperatures are less than those recommended by sealant manufacturers.
- B. Maintain temperatures within acceptable range during and after installation of duct sealants.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Galvanized Steel for Ducts: Hot-dipped galvanized steel sheet, ASTM A 653/A 653M FS Type B, with G90/Z275 coating.
- B. Joint Sealers and Sealants: Non-hardening, water resistant, mildew and mold resistant.
 - 1. Type: Heavy mastic or liquid used alone or with tape, suitable for joint configuration and compatible with substrates, and recommended by manufacturer for pressure class of ducts.
 - 2. VOC Content: Not more than 250 g/L, excluding water.
 - 3. Surface Burning Characteristics: Flame spread of zero, smoke developed of zero, when tested in accordance with ASTM E 84.

- C. Hanger Rod: ASTM A 36/A 36M; steel, galvanized; threaded both ends, threaded one end, or continuously threaded.
- D. All Ducts: Galvanized steel, unless otherwise indicated.
- E. Medium and High Pressure Exhaust: 4 inch w.g. pressure class, galvanized steel.

2.02 DUCTWORK FABRICATION

- A. Fabricate and support in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and as indicated.
- B. Provide duct material, gages, reinforcing, and sealing for operating pressures indicated.
- C. Increase duct sizes gradually, not exceeding 15 degrees divergence wherever possible; maximum 30 degrees divergence upstream of equipment and 45 degrees convergence downstream.
- D. Fabricate continuously welded round and oval duct fittings in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible.

2.03 MANUAL BLAST GATES

- A. Manufacturers
 - 1. K & B Duct.
 - 2. Substitutions: Approved Equal.
- B. Full diameter, clear through gate, aluminum body with galvanized blade and thumb screw lock. Provide with raw end for spiral, rolled lip for clamping, or flanged end as required to match ductwork system.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install, support, and seal ducts in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible.
- B. Install in accordance with manufacturer's instructions.
- C. During construction provide temporary closures of metal or taped polyethylene on open ductwork to prevent construction dust from entering ductwork system.
- D. Duct sizes indicated shall be of sizes indicated. However, necessary changes in shape offsets or crossovers to clear piping, lighting, building construction obstructions, etc. shall be made without additional cost.
- E. Provide openings in ductwork where required to accommodate controllers. Provide pilot tube openings where required for testing of systems, complete with metal can with spring device or screw to ensure against air leakage. Where openings are provided in insulated ductwork, install insulation material inside a metal ring.
- F. Locate ducts with sufficient space around equipment to allow normal operating and maintenance activities.
- G. Use double nuts and lock washers on threaded rod supports.

3.02 CLEANING

- A. Clean duct system and force air at high velocity through duct to remove accumulated dust. To obtain sufficient air, clean half the system at a time. Protect equipment that could be harmed by excessive dirt with temporary filters, or bypass during cleaning.

END OF SECTION

SECTION 16050

BASIC ELECTRICAL REQUIREMENTS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SECTION INCLUDES

- A. Basic Electrical Requirements specifically applicable to Division 16 Sections, in addition to General Requirements.

1.03 REGULATORY REQUIREMENTS

- A. Provide all materials and labor in conformance with the following codes and standards:
 1. City of Joliet - Code of Ordinances.
 2. ANSI/NFPA 70 - National Electrical Code 2002 Edition as adopted and Amended by the City of Joliet, IL.
 3. IBC International Building Code, 2003 Edition, with local amendments.
 4. IECC International Energy Conservation Code, 2003 Edition with local amendments.
 5. International Fire Prevention Code, First Edition, 2003, with local amendments.
 6. NFPA 72 - National Fire Alarm Code ; 2003.
 7. ADA-AG - American with Disabilities Act - Accessibility Guidelines.
 8. Illinois Accessibility Code, 1997 Edition (Illinois Administrative Code, Title 71, Chapter I, Subchapter b, Part 400).
 9. Underwriter's Laboratory.
 10. Install electrical Work in accordance with the NECA Standard of Installation.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Store and protect all materials as specified under the provisions of this specification.
- B. Deliver products to the project properly identified with names, model numbers, types, grades, compliance labels, and other information needed for identification.
- C. Ship products to the job site in their original packaging. Receive and store products in a suitable manner to prevent damage or deterioration. Keep equipment upright at all times.
- D. Investigate the spaces through which equipment must pass to reach its final destination. Coordinate with the manufacturer to arrange delivery at the proper stage of construction and to provide shipping splits where necessary.

1.05 PROJECT/SITE CONDITIONS

- A. Install work in locations shown on Drawings, unless prevented by Project conditions. Drawings have omitted certain branch circuitry in areas for ease of reading. All branch circuitry is to be provided by Contractor.
- B. Prepare drawings showing proposed rearrangement of Work to meet Project

conditions, including changes to Work specified in other Sections. Obtain permission from Architect/Engineer before proceeding as specified under modification procedures.

1.06 MODIFICATION PROCEDURES

- A. Procedures for modification of Work are specified under the provisions of this specification.

1.07 QUALITY ASSURANCE

- A. Provide Work as required for a complete and operational electrical installation.
- B. All products shall be designed, manufactured, and tested in accordance with industry standards. Standards, organizations, and their abbreviations as used hereafter, include the following:
 - 1. American National Standards Institute, Inc (ANSI).
 - 2. American Society for Testing and Materials (ASTM).
 - 3. National Electrical Manufacturers Association (NEMA).
 - 4. Underwriters Laboratories, Inc. (UL).
- C. Install all Work in accordance with the NECA Standard of Installation.

1.08 SUBMITTALS

- A. Submit all requested items in Division 16 Sections under provisions of this specification.

1.09 PROJECT RECORD DOCUMENTS

- A. Cooperate and assist in the preparation of project record documents under the provisions of this specification.

1.10 CONSTRUCTION PROCEDURES

- A. Construct Work in sequence with all other trades and Owner's schedule as specified under the provisions of this specification.
- B. Prepare Work as specified under the provisions of this specification.
- C. Provide cleaning as specified under provisions of this specification.

1.11 PROJECT MANAGEMENT AND COORDINATION

- A. Proper project management and coordination is critical for a successful project. Manage and coordinate the Work with all other trades in accordance with this specification. Reliance on the Drawings and Specifications only for exact project requirements is insufficient for proper coordination.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

END OF SECTION

SECTION 16075

ELECTRICAL IDENTIFICATION

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Wire and cable markers.

1.02 REFERENCES

- A. ANSI/NFPA 70 - National Electrical Code.

PART 2 PRODUCTS

2.01 WIRE MARKERS

- A. Manufacturers:
 - 1. Brady Model PCPS.
 - 2. Panduit Model PCM.
 - 3. T & B Model WM.
- B. Description: Cloth type wire markers.
- C. Locations: Each conductor at panelboard gutters, pull boxes, and each load connection.
- D. Legend:
 - 1. Power and Lighting Circuits: Branch circuit or feeder number indicated on drawings.

END OF SECTION

SECTION 16091

ELECTRICAL DEMOLITION

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Electrical demolition: Remove all electrical items noted on drawings in their entirety.

PART 2 PRODUCTS

2.01 Not Used.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Demolition Drawings are based on casual field observation and are intended to identify the limits of the construction site. Remove all electrical systems in their entirety in proper sequence with the Work.
- B. Beginning of demolition means installer accepts existing conditions.

3.02 DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK

- A. Remove all existing electrical installations to accommodate new construction.
- B. Remove abandoned wiring to source of supply.
- C. Repair adjacent construction and finishes damaged during demolition and extension work.

END OF SECTION

SECTION 16110

RACEWAYS AND BOXES

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Raceway Requirements.
 - 2. Metallic Conduit and Fittings.
 - 3. Electrical Boxes.

1.02 REFERENCES

- A. American National Standards Institute (ANSI)
 - 1. ANSI C80.3 - Specification for Electrical Metallic Tubing, Zinc-Coated.
- B. ANSI/NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit and Cable Assemblies.
- C. NECA "Standard of Installation"
- D. Underwriter's Laboratory Fire Resistance Directory.

1.03 QUALITY ASSURANCE

- A. Install all raceways in accordance with applicable building codes and NECA "Standard of Installation."

1.04 PROJECT CONDITIONS

- A. Verify routing and termination locations of conduit prior to rough-in.
- B. Electrical boxes are shown on Drawings in approximate locations unless dimensioned. Install at locations required for box to serve intended purpose. Include in base bid, installation within 10 feet of location shown.

PART 2 PRODUCTS

2.01 RACEWAY REQUIREMENTS

- A. Use only specified raceway in the following locations:
 - 1. Branch Circuits and Feeders:
 - a. Concealed Dry Interior Locations: Electrical metallic tubing.
 - b. All other locations: Galvanized Rigid Metallic Conduit.
- B. Size raceways for conductor type installed.
 - 1. Minimum Size Conduit Homerun to Panelboard: 3/4-inch.

2.02 METALLIC CONDUIT AND FITTINGS

- A. Conduit:
 - 1. Rigid Steel Conduit: ANSI C80.1.
 - 2. Electrical metallic tubing: ANSI C80.3.
 - 3. Flexible Conduit: UL 1, zinc-coated steel.
 - a. Liquidtight Flexible Conduit: UL360. Fittings shall be specifically approved

for use with this raceway.

- B. Conduit Fittings:
 - 1. Metal Fittings and Conduit Bodies: NEMA FB 1.
 - a. EMT fittings: Use set-screw indentor-type fittings.

2.03 ELECTRICAL BOXES

- A. Manufacturers:
 - 1. Raco.
 - 2. Steel City.
 - 3. Appleton.
 - 4. Substitutions: Or Approved Equal.
- B. Sheet Metal Outlet Boxes: ANSI/NEMA OS 1, galvanized steel, suitable for installation in masonry:

2.04 PENETRATION SEALANTS

- A. Fire-rated assemblies: Provide firestopping of all penetrations made by Work under this Contract in accordance with provisions of this specification.

PART 3 EXECUTION

3.01 EXAMINATION AND PREPARATION

- A. Verify that mechanical work which is likely to injure conductors has been completed.
- B. Completely and thoroughly swab raceway system before installing conductors.
- C. Verify that supporting surfaces are ready to receive work.
- D. Electrical boxes are shown on Drawings, in approximate locations, unless dimensioned.
 - 1. Obtain verification from Architect/Engineer for locations of outlets throughout prior to rough-in.
- E. Degrease and clean surfaces to receive wire markers.

3.02 INSTALLATION

- A. Arrange conduit to maintain headroom and to present neat appearance.
 - 1. Route raceway parallel and perpendicular to walls and adjacent piping.
 - 2. Maintain minimum 6 inch clearance to piping and 12 inch clearance to heat surfaces such as flues and heating appliances.
 - 3. Maintain required fire, acoustic, and vapor barrier rating when penetrating walls, floors, and ceilings.
 - 4. Use conduit hangers and clamps; do not fasten with wire or perforated pipe straps.
 - 5. Use conduit bodies to make sharp changes in direction.
 - 6. Terminate conduit stubs with insulated bushings.
 - 7. Use suitable caps to protect installed raceway against entrance of dirt and moisture.
 - 8. Install expansion joints where raceway crosses building expansion joints.
- B. Install electrical boxes as shown on the drawings, and as required for splices, taps, wire pulling, equipment connections and regulatory requirements.
 - 1. Locate and install electrical boxes to allow access. Provide access panels if

- required.
2. Locate and install electrical boxes to maintain headroom and to present neat mechanical appearance.
 3. Install pull boxes and junction boxes above accessible ceilings or in unfinished areas.
 4. Provide knockout closures for unused openings.
 5. Coordinate mounting heights and locations of outlets above counters, benches, backsplashes and furniture.
- C. Install conduit to preserve fire resistance rating of walls, floors, partitions and other elements, using materials and methods recognized by Underwriters Laboratory Fire Resistance Directory.
- D. Provide anchors, fasteners, and supports in accordance with NECA "Standard of Installation".
- E. Do not fasten supports to pipes, ducts, mechanical equipment, and conduit.
- F. Do not use powder-actuated anchors.

END OF SECTION

SECTION 16120

CONDUCTORS AND DEVICES

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Wiring Methods.
 - 2. Wire and Cable
 - 3. Wiring Connections.

1.02 SUBMITTALS

- A. Submit Under Provisions of this specification:
 - 1. Product Data: Provide data on wiring devices and cover plates.

1.03 QUALITY ASSURANCE

- A. Perform Work in accordance with NECA Standard of Installation.

PART 2 PRODUCTS

2.01 WIRING METHODS

- A. All locations: Building wire in raceway.
- B. Use no wire smaller than 12 AWG for power and lighting circuits, and no smaller than 14 AWG for control wiring.
 - 1. Use 10 AWG conductor for 20 ampere, 120 volt branch circuit home runs longer than 100 feet. Use minimum #10 AWG conductor wire in all the following locations:
 - a. All programmable panel branch circuits (larger where indicated).
 - b. All emergency lighting and exit branch circuits.

2.02 WIRE AND CABLE

- A. Manufacturers:
 - 1. Okonite.
 - 2. Southwire.
 - 3. Collyer.
- B. Building Wire:
 - 1. Feeders and Branch Circuits 6 AWG and Smaller: Copper conductor, 600 volt insulation, THHN/THWN. 6 and 8 AWG, stranded conductor; smaller than 8 AWG, stranded conductor (solid for device terminations).
 - 2. Control Circuits: Copper, stranded conductor, 600 volt insulation, THW.

2.03 WIRING CONNECTIONS:

- A. Make permanent splice connections to achieve no measurable temperature rise:
 - 1. Wire size up to #6 AWG: Spring wire cap.
- B. Make terminations to achieve no measurable temperature rise:
 - 1. Wire size upto #6 AWG: Set screw type compression terminal lug.

PART 3 EXECUTION

3.01 EXAMINATION AND PREPARATION

- A. Verify that mechanical work which is likely to injure conductors has been completed.
- B. Completely and thoroughly swab raceway system before installing conductors.

3.02 INSTALLATION

- A. Neatly train and secure wiring inside boxes, equipment, and panelboards.
- B. Make splices, taps, and terminations to carry full ampacity of conductors without perceptible temperature rise.

END OF SECTION

SECTION 16190
SUPPORTING DEVICES

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Conduit and equipment supports.
 - 2. Anchors and fasteners.

1.02 REFERENCES

- A. NECA - National Contractors Association.
- B. ANSI/NFPA 70 - National Electrical Code.

PART 2 PRODUCTS

2.01 PRODUCT REQUIREMENTS

- A. Materials and Finishes: Provide adequate corrosion resistance.
- B. Provide materials, sizes, and types of anchors, fasteners and supports to carry the loads of equipment and conduit. Consider weight of wire in conduit when selecting products.
- C. Anchors and Fasteners:
 - 1. Steel Structural Elements: Use beam clamps.
 - 2. Solid Masonry Walls: Use expansion anchors and preset inserts.
 - 3. Sheet Metal: Use sheet metal screws.

2.02 CONDUIT HANGERS

- A. Manufacturers:
 - 1. Minerrallac Electric Company.
 - 2. Substitutions: Or Approved Equal.
- B. Description:
 - 1. Standard conduit hanger, zinc-plated steel with bolts.
 - 2. Threaded rod and hardware: Plated finish, size and length as required for loading and conditions.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Provide anchors, fasteners, and supports in accordance with NECA "Standard of Installation".
- C. Do not fasten supports to pipes, ducts, mechanical equipment, and conduit.
- D. Do not use powder-actuated anchors; Do not drill or cut structural members.

END OF SECTION

SECTION 16400

SERVICE AND DISTRIBUTION

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Circuit Breakers

1.02 SUBMITTALS

- A. Submit Under Provisions of this specification:
 - 1. Product Data: Provide data on circuit breakers.

1.03 REFERENCES

- A. NECA (National Electrical Contractors Association) "Standard of Installation."

PART 2 PRODUCTS

2.01 CIRCUIT BREAKERS

- A. Underwriter Laboratories listed for intended branch circuit:
 - 1. Lighting: SWD.
 - 2. Heating, Ventilating and Air Conditioning: HACR rated.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install equipment in accordance with manufacturer's instructions.

3.02 CLEANING

- A. Clean equipment finishes to remove paint and concrete splatters.

END OF SECTION

determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

B11023

CERTIFICATION OF CONTRACT/BIDDER

The below signed contractor/bidder hereby certifies that it is not barred from bidding on this or any other contract due to any violation of either Section 33E-3 or 33E-4 of Article 33E, Public Contracts, of the Illinois Criminal Code of 1961, as amended. This certification is required by Public Act 85-1295. This Act relates to interference with public contracting, bid rigging and rotating, kickbacks and bribery.

SIGNATURE OF CONTRACTOR/BIDDER

TITLE

DATE

THIS FORM **MUST** BE RETURNED WITH YOUR BID TO:

Joliet Junior College District #525
Office of Facility Services
Main Campus L Building, L1005
1215 Houbolt Road
Joliet, IL 60431-8938

**CERTIFICATE OF COMPLIANCE WITH
ILLINOIS DRUG-FREE WORKPLACE ACT**

_____, does hereby certify pursuant to the *Illinois Drug-Free Workplace Act* (30 ILCS 580/) that [he, she, it] shall provide a drug-free workplace for all employees engaged in the performance of work under the contract by complying with the requirements of the *Illinois Drug-Free Workplace Act* and, further certifies, that [he, she, it] is not ineligible for award of this contract by reason of debarment for a violation of the *Illinois Drug-Free Workplace Act*.

By Authorized Agent

Date

SUBSCRIBED AND SWORN TO before me
This ____ day of _____, 20__.

NOTARY PUBLIC

EXECUTE AND ATTACH TO PROPOSAL FORM

JOLIET JUNIOR COLLEGE – REQUEST FOR BID

DRAWINGS ARE AVAILABLE ON THE FOLLOWING WEBSITE:
WWW.JJC.EDU/INFO/PURCHASING

BID FORM

To: Joliet Junior College
1215 Houbolt Road
Joliet, IL 60431-8938

Project: _____

Date: _____

Submitted by:

(Full Name)

(Address)

(City, State, Zip)

(Phone)

(Fax)

(Email)

PART 1 OFFER

Having examined the site and having familiarized itself with the conditions affecting the cost of the work associated with the _____, and with the bidding documents, Bidder hereby proposes to perform everything required and to furnish all labor, materials, necessary tools, expendable equipment and transportation services necessary to complete in a workmanlike manner the subdivision of work stated above in accordance with the bidding documents for the following sums:

Base Bid:

Dollars(\$_____)

Write amount in both alpha and numeric, in case of discrepancy the lesser amount shown will govern.

Alternate #1: Automatic Gate Control System

Dollars(\$_____)

Write amount in both alpha and numeric, in case of discrepancy the lesser

We have included herewith, the Security Deposit as required by the Instructions to Bidders.

PART 2 ACCEPTANCE

This offer shall be open to acceptance and is irrevocable for thirty (30) days from the Bid closing date.

If the bid is accepted by the Owner within the time period stated above, we will:

- A. Execute the Agreement within ten (10) days of receipt of Notice of Award.
- B. Furnish the required bonds within ten (10) days of receipt of Notice of Award in the form described in the Instruction to Bidders.
- C. Furnish the required Certificate of Insurance within ten (10) days of receipt of Notice of Award in the form and amounts described in the Instruction to Bidders.
- D. Commence work as established by the written Notice to Proceed.

If this Bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bonds(s), the Security Deposit shall be forfeited as damages to the Owner by reason of our failures.

In the event our Bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

PART 3 CONTRACT TIME

If the Bid is accepted, we will:

- A. Complete the work in manner consistent to meet the requirements of the schedule (_____) consecutive calendar days from the date established as the Date of Commencement in the Notice to Proceed.

B11023

B. Contractor has examined the Schedule included in these documents and takes no exception, or records the following exceptions:

PART 4 CONTRACTOR’S FEES FOR CHANGES IN THE WORK

Lump Sum of Time and Materials Changes: We the undersigned bidder agree that the following percentages for overhead and profit shall be added to job costs for the net amount of work added to or deleted from the contract by written lump sum or time and material change orders recommended by the Engineer and approved by the Owner:

Add to net extra for job costs for additional work performed by:

Our own forces 12%

Our subcontractor 5% (including assigned subcontractors)

Note: Insurance, bond, and taxes are considered as job cost items and are not included in the percentages listed above.

PART 5 ADDENDA

The following Addenda have been received. The modifications to the Bid Documents noted therein have been considered and all costs thereto are included in the Bid Sum.

Addendum # _____ Dated _____

Addendum # _____ Dated _____

Addendum # _____ Dated _____

PART 6 SUBCONTRACTORS

A. The following work will be performed (or provided) by the Subcontractors we have indicated below:

	<u>Name of Subcontractor</u>	<u>Work Performed</u>
1.	_____	_____

B11023

2. _____
3. _____
4. _____

B. We understand, and hereby agree, that we are obligated to use the indicated subcontractors, unless prior written permission to change has been obtained from the Owner.

PART 7 RELATED WORK EXPERIENCE

List a minimum of three jobs of similar type and scope performed in the last five years:

1. Client: _____
Building: _____
Phone: _____
Contact Name: _____
Dollar Amount: _____

2. Client: _____
Building: _____
Phone: _____
Contact Name: _____
Dollar Amount: _____

3. Client: _____
Building: _____
Phone: _____
Contact Name: _____
Dollar Amount: _____

PART 8 BID FORM ADDITION

Apprenticeship and Training Certification

In accordance with the Illinois Procurement Code, the Bidder certifies that the work to be performed by it and/or its subcontractors shall, at the time of such bid opening and at the time of the performance of work pursuant to the terms of this Contract, shall have participated in the approved apprenticeship and training programs as provided for above. The bidder shall list, in the space below, the official name of the program sponsor holding the certificate of registration or all types of work or crafts in which the bidder is a participant and that will be performed by the bidder and its sub-contractor's employees. Work that will be sub-contracted shall be indicated to be subcontracted work as provided for herein.

PART 9 CONTRACTOR EVALUATION

Upon completion of the project, a Construction Contractor Performance Evaluation form will be completed by the A/E and the JJC Project Coordinator. The contractor will be evaluated in the following categories:

- Professionally Administered and Supervised Work
- Business Practices
- Overall Performance
- Workmanship
- Timeliness
- Project Management

PART 10 BID FORM SIGNATURE(S)

The Corporate Seal of:

B11023

(Bidder – please print the full name of your Proprietorship, Partnership, or Corporation)

Was hereunto affixed in the presence of:

(Authorized signing officer)

(Title)

(Seal)

(Authorized signing officer)

(Title)

If the bid is a joint venture or partnership, add additional forms of execution for each member of the joint venture in the appropriate form or forms as above.

END OF SECTION