J. C. Ripberger Construction Corporation
GENERAL CONTRACTORS
5300 WEST OLD 106TH STREET
P.O. BOX 493
ZIONSVILLE, INDIANA 46077-0493
TELEPHONE (317) 873-3383
FACSIMILE (317) 873-3688
www.jcripberger.com
A VETERAN-OWNED SMALL BUSINESS (VOSB)

INVITATION TO BID

Bid Date October 6, 2016 by 3:00PM

Minority and Women's Business Enterprises Division
402 W. Washington Street, Room 2469
Indianapolis, IN 46204

RE: Purdue University – Controlled Environment Phenotyping Facility – 2016

To Whom It May Concern:

J.C. Ripberger Const. Corp. will be bidding as a prime contractor for the project listed below. We would like to invite MBE/WBE/VBE/DBE subcontractor/supplier firms interested to submit a bid proposal.

PROJECT: Purdue University - Controlled Environment Phenotyping Facility – 2016
COUNTY: Tippecanoe

SCOPE OF PROJECT

A. The project consists of a 8,400 SF building constructed of load bearing pre-cast concrete panels with a metal roof joist/ deck system that will house two controlled environment growth houses (one to be installed at the end of construciont and one at a later date), an automated conveyor system used for moving potted plants around the facility, and imagining/ scanning equipment used to perform phenotyping activities on the plants. The pre-cast building will be constructed adjacent to the existing greenhouses south of the Life Science Plant and Soils Laboratory (LSPS) building. Metal stud construction of approximately 700 SF will be located on the northwest portion of the pre-cast structure and will contain the entry vestibule and building support service spaces. A connector, of approximately 1,125 SF, constructed of steel framing, metal stud and block will be located to the east of the Pre-cast portion and will be tied into the south face of LSPS and the north face of the existing greenhouse connector cooridor. Architectural components include, but are not limited to, demolition of an existing greenhouse and a portion of the existing connecting corridor, pre-cast load bearing panels, concrete slab, exterior metal panels, hollow metal doors and frames, metal stud and gyp board assemblies, painting, storefront systems, insulation and roofing assemblies.

Site will include site demolition and restoration, development of pedestrian and vehicular spaces immediately adjacent to the facility, and re-routing of existing storm sewer and sanitary sewer lines.

The MEP scope of work consists of, but is not limited to, the demolition of the existing greenhouse MEP services disconnected and capped in the greenhouse service corridor, new HVAC, plumbing, fire protection, electrical and telecommunications systems, compressed air, RO water and ventilation connections to the automation system, fertigation system, and growth house. New RO water and compressed air systems will be provided. Domestic hot water will be provided from point of use electric water heaters. The new HVAC system consists of a single zone Air Handling Unit for the main area with fan coil

units for support spaces. A steam to water heat exchanger will be provided to convert steam to hot water for heating. The steam service will be provided from the existing piping in the greenhouse service corridor. Chilled water will be provided from buried piping to the east. The building water service lateral will be connected to the existing water main northwest of the site. The building electrical service will be connected to an existing manhole northwest of the site.

Before Substantial completion is issued, the Owner's Equipment vendors, Conviron and AgriNomix will be onsite to begin equipment installation preparations. The General Contractor and their subcontractors will be required to make particular final connections, conduit and waterlines to the equipment as indicated by the contract documents.

Contractors should review this scope of work and be prepared to perform this work after the appropriate equipment is installed. Specific delivery dates, when confirmed, will be coordinated with the successful contractor. Once specific cut sheets and other equipment related information is produced it will be made available to the contractors for coordination. The connecting corridor between LSPS and the greenhouses to the south of the project site must remain available for use by the University, reserachers and students until April 1, 2017. After that date, path of travel between LSPS and the south greenhouses will be via the parking area and drive east of the project site. Therefore, all underground utility work in this area must be completed before that time so a surface sufficient to allow cart passage can be in place. During the period of construction before April 1, 2017, the connecting corridor will be protected in order to provide safety to occupants. If times of shut-down are required for particular installations, coordinate with Owner and post notification a min. of 48 hours in advance.

As noted, the Owner will purchase equipment to be housed in this facility. This equipment will be provided by Conviron and AgriNomix. Conviron will be providing an approximate 1000 SF growth house comprise of 4" foamed in place insulation between steel galvanized sheets. This will include walls and roof, no floor. Lighting, temperature control system, doors and electrical system will be provided by Conviron. Connection to the electrical panels by Conviron will be required by Contractor. Conviron will provide an Argus Fertigation system to be installed as shown on the documents.

AgriNomix will provide the conveyance system and associated electrical panels. Contractor to provide final connection to panels. Also included as provided by AgriNomix will be the imaging equipment and enclosure panels, any equipment located on the conveyor system, such as RFID readers, turning units, and stopper units. Imager units will require final connections by Contractor once installed.

B. Contract: Construction work under unified fixed price contract.

Drawing and Specification available and may be purchased from Purdue University ePlanroom - www.purdueplanroom.com.

MBE/WBE/VBE/DBE subcontractor/supplier firms interested in submitting a bid proposal to J.C. Ripberger, please email or fax to info@jcripberger.com or 317/873-3688. Include your company name, contact person, fax #, & phone#.

If you have any questions, please contact our office at 317/873-3383 or email info@jcripberger.com.

Thank you,
J.C. Ripberger Construction Corp.
A Veteran-Owned Small Business (VOSB), City/State VBE Certified