



ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

## ADDENDUM

**PROJECT:** South Dakota State University  
New Headhouse & Greenhouse  
Greenhouse Package  
Brookings, South Dakota

### ADDENDUM NUMBER

AD-1

### ISSUED BY:

Matt Metcalf, Architect  
Brad Wermers, Civil Engineer (Banner)  
Mike Wachal, Structural Engineer  
Bryce Johnson, Mechanical Engineer  
Jon Dalton, Electrical Engineer

**PROJECT #:** 12-0124 / OSE R0312-19X / SDSU 201202336

**DATE ISSUED:** Thursday, March 31, 2016

*This addendum is issued by the Architect to all known bidders before receipt of proposals, for the purpose of explaining, interpreting, or modifying the original plans and specifications. When enumerated by the bidder upon the proposal sheet, the information or instructions given hereon will be equally binding upon all parties as if included in the original plans and specifications.*  
**BIDDER MUST ENTER THE NUMBER OF THIS ADDENDUM ON HIS PROPOSAL SHEET**

### THE FOLLOWING ITEMS ARE GENERAL INFORMATION:

#### AD-1, ITEM 1:

As a matter of clarification, no rolling benches are to be included in the base bid amount.

#### AD-1, ITEM 2:

In reference to the Pre-Bid Meeting held on Tuesday, March 29, 2016, beginning at 11:00 am, see attached agenda and sign-in sheet for those in attendance.

#### AD-1, ITEM 3:

As a matter of clarification, no videotaping of Owner training is required.

### THE FOLLOWING ITEMS ARE APPLICABLE TO THE SPECIFICATIONS:

#### AD-1, ITEM 4:

In reference to Exhibit A – Bid Form, see attached revised Bid Form showing the following changes:

Under Alternate No. 2, change “as shown on Sheet E-103” to read “as shown on Sheet A-103”.

Revisions to Alternate No. 4.

Addition of Alternate No. 6.

**AD-1, ITEM 5:**

**In reference to Exhibit A-1 – Modification to Bid Form**, see attached revised Modification to Bid Form showing the following changes:

Under Alternate No. 2, change “as shown on Sheet E-103” to read “as shown on Sheet A-103”.

Revisions to Alternate No. 4.

Addition of Alternate No. 6.

**AD-1, ITEM 6:**

**In reference to the Agreement for Construction**, Article III – Date of Commencement and Completion, change the substantial completion date from June 30, 2017 to July 21, 2017. (NOTE: July 21, 2017 is the date liquidated damages will start being assessed.)

**AD-1, ITEM 7:**

**In reference to Section 012300 – Alternates**, under Article 3.1, make and add the following:

Under Alternate No. 4, add Rooms 120, 124, 126, 128, and 130.

F. Alternate No. A-6:

1. Alternate No. A-6: Complete all construction (substantially complete) by March 3, 2017.

*(Note: Liquidated damages DO NOT apply to this early completion date.)*

**AD-1, ITEM 8:**

**In reference to Section 131230 – Greenhouse Structures**, make the following corrections:

Article 1.1 – Summary, Paragraph A, under Subparagraph 3, delete the reference to “rolling benches”. (Rolling benches are only to be provided in the rooms noted under Alternate No. 2.)

Article 1.2 – References, delete Paragraph A. (NOTE: All aluminum to be mill finish.)

Article 2.1 – Greenhouse Manufacturer, Paragraph A, under Sub-paragraph 1, add the following approved manufacturers:

- c. Winandy Greenhouse Company, Inc. Indiana (Telephone: 765-935-2111)

Article 2.2 – Greenhouse System, Paragraph B, Subparagraph 1, revise sub-subparagraph j to read as follows:

- j. Glass lite widths will divide the bay into four lites maximum or 30” width versus 40” width.

Article 2.2 – Greenhouse System, Paragraph B, Subparagraph 1, revise sub-subparagraph k to read as follows:

- k. Roof system shall apply as standard 3/8 inch lap for sloped roof glazing.

Article 2.2 – Greenhouse System, Paragraph C, revise Subparagraph 1, to read as follows:

1. Roof glazing shall be 3/16 inch clear, tempered glass. Lapped 3/8 of an inch.

Article 2.6 – Greenhouse Equipment, Paragraph B, revise first sentence to read as follows:

Rolling Benches (Alternate No. 2): Provide 5 ft wide by 27 ft long rolling benches where shown / described for Alternate No. 2.

**AD-1, ITEM 9:**

In reference to Section 235216 – Condensing Boilers, under Article 3.5, Paragraph A, delete sentence reading “Video training sessions.”

**AD-1, ITEM 10:**

In reference to Section 260533 – Raceways and Boxes for Electrical Systems, remove any mention of Alternate E-2, and any mention of aluminum conduit, fittings, boxes, etc.

**THE FOLLOWING ITEMS ARE APPLICABLE TO THE DRAWINGS:**

**AD-1, ITEM 11:**

In reference to Sheet A-201, add note reading “Metal panel faced knee wall to be equal to Type CS, 26-gauge; color to be Parchment; Kynar finish (ultra-kote) by Chief Industries. To match vertical metal siding on existing headhouse.

**AD-1, ITEM 12:**

In reference to Sheet P-501, refer to Plumbing Fixture Schedule, Hubbel Power Systems Polycast 600 Series is an approved manufacturer for TD-1.

**AD-1, ITEM 13:**

In reference to Sheet E-101, refer to sketch E-101.1, and E-101.2 for changes on Lighting Sheet.

**AD-1, ITEM 14:**

In reference to Sheet E-601, refer to all Combo Control Panels note 4, change to read. “Provide lighting load contactors as required”.

**END AD-1**

SDSU Greenhouse

Pre-Bid Meeting

Location: Onsite/Facilities and Services Building

Date: 3/29/16, 11:00

Present:        Jon Healy        Project Manager        SDSU F&S  
                     John Ullmann    Project Manager        SD OSE

1. Discussion

- a. Bid Date: April 6<sup>th</sup>, 2:00pm. Bids submitted to the Office of the State Engineer
  - i. Fax Mods; Only one fax machine, submit early
- b. All Pre-bid questions routed through Davis Design
- c. Bid Bulletin
  - i. Added alternate for early completion date (March 3<sup>rd</sup> 2017)
  - ii. Change contractual completion date to July 21<sup>st</sup>
- d. Bid Form
  - i. Acknowledge addendum
  - ii. Acknowledge alternates
- e. Site Access
  - i. Details of site and staging areas will be discussed post bid
    - 1. Projects in surrounding areas and school schedule will impact staging areas and construction areas
- f. Product Substitutions
  - i. Discuss with architect/engineer prior to bidding
- g. Questions?



# **EXHIBIT “A”**

## **BID FORM**

**BID FORM**

South Dakota State University  
New Headhouse and Greenhouse  
Greenhouse Package  
Brookings, South Dakota  
OSE No. R0312--19X

April 6, 2016

To: State Engineer, Office of the State Engineer  
Joe Foss Building  
523 East Capitol  
Pierre, South Dakota 57501

Phone: 605-773-3466  
Fax: 605-773-5980

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bid Form, Explanation of Alternates, Modification to Bid Form, Bid Bond Form, Performance and Payment Bond, Acknowledgment of Surety, Sample Certification of Surety, Non-Resident Bidder Affidavit, Form of Agreement for Construction, General Conditions, Special Conditions, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

South Dakota State University  
New Headhouse and Greenhouse  
Greenhouse Package  
Brookings, South Dakota  
OSE No. R0312--19X

as provided for in the Plan and accompanying Specifications dated \_\_\_\_\_

for the following base bid and alternates:

**BASE BID** \_\_\_\_\_  
\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)

**Alternate No. 1:** Lower the greenhouse eaves (center line of gutter) from 11' - 6" to 10' - 0".

Deduct from the base bid the sum of  
\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)

**Alternate No. 2:** Add rolling benches in Rooms 125, 127, 128, and 129.

Add to the base bid the sum of

\_\_\_\_\_ DOLLARS \$ \_\_\_\_\_ on a per room

basis for a total add of \_\_\_\_\_ DOLLARS \$ \_\_\_\_\_  
for all 4 rooms as shown on Sheet A-103.

**Alternate No. 3:** Provide and install necessary pumps, piping, and controls associated with below floor heating system in existing headhouse as shown on drawing Sheet M-101.

Add to the base bid the sum of

\_\_\_\_\_ DOLLARS \$ \_\_\_\_\_

**Alternate No. 4:** Provide / install metal halide / high pressure sodium grow lights in Rooms 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, and 131.

Add to the base bid the sum of

\_\_\_\_\_ DOLLARS \$ \_\_\_\_\_ on a per  
room

basis for a total add of \_\_\_\_\_ DOLLARS \$ \_\_\_\_\_  
for all 7 rooms as shown on Sheet E-101

**Alternate No. 5:** Provide / install LED grow lights in lieu of metal halide / high pressure sodium grow lights in Rooms 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, and 131.

Add to the base bid the sum of

\_\_\_\_\_ DOLLARS \$ \_\_\_\_\_ on a per room

basis for a total add of \_\_\_\_\_ DOLLARS \$ \_\_\_\_\_  
for all 12 rooms as shown on Sheet E-101

**Alternate No. 6:** Complete all construction (substantially complete) by March 3, 2017.

Add to / deduct from the base bid the sum of

\_\_\_\_\_ DOLLARS \$ \_\_\_\_\_

*(Note: Liquidated damages DO NOT apply to this early completion date.)*

**TEMPERATURE CONTROL COST BREAKOUT:**

Included in the base bid amount above is the following cost for "campus" temperature control costs as defined in specification sections 230900 and 230993.

\_\_\_\_\_ DOLLARS \$ \_\_\_\_\_

NOTE: This cost is not to include temperature control costs for the greenhouse as defined in specification Section 131230.

The Owner also reserves the unrestricted privilege to reject any unit prices for additions to or deductions from the scheduled amount of work as given in the Bid, if the same are considered excessive or unreasonable, or to accept by including the same in the contract as unit prices applicable in the event of addition to or deduction from the work to be performed under the contract, any or all such unit prices which may be considered fair or reasonable.

The above bid includes all applicable State and Municipal Sales and Use Taxes on materials, and State and Municipal Excise Taxes and all other State and Federal Taxes that would affect the amount of the bid. (See Instructions to Bidders-SD Sales and Use Tax Information for Public Contracts.)

In addition, any material furnished by the State for use in this project is subject to Use Tax and Excise Tax. The total taxable value of materials furnished by the State for this project is \$ \_\_\_\_\_ N/A \_\_\_\_\_ .

*A Performance and Payment Bond as required by General Conditions will not be required on contracts which do not exceed Fifty Thousand Dollars (\$50,000). (See SDCL 5-21-1.1 as amended).*

*If discrepancies remain at the time of substantial completion, a value will be assigned to each of the discrepancies and two (2) times their estimated value will be retained from payment to the Contractor until completed and accepted. (See SDCL 5-18-13 as amended).*

**Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Office of the State Engineer, the executed Agreement for Construction, Performance and Payment Bond, Certificates of Insurance and Affirmative Action Plan (if applicable).**

**Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the State Engineer and shall be substantially completed**

\_\_\_\_\_.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. \_\_\_\_\_ dated \_\_\_\_\_ respectively.

Addenda Nos. \_\_\_\_\_ dated \_\_\_\_\_ respectively.

The undersigned acknowledges that they have read and understand the Asbestos-Containing Materials Statement contained in the project manual.

Accompanying this proposal is a certified check, cashier's check or draft in the amount of 5% of the base bid and all add alternates, and drawn on a State or National Bank in the amount of \$ \_\_\_\_\_ or a 10% bid bond issued by a surety authorized to do business in the State of South Dakota, in the amount of \$ \_\_\_\_\_. (Not applicable if Bid is under \$50,000.)

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within 30 days after the actual opening thereof.

In submitting this bid, bidder asserts it has reviewed all provisions of the General Conditions including the provision for assessment of liquidated delay damages found in Article 10 of the General Conditions. Bidder agrees that the damages anticipated by the Owner in the event of delay in completion of the project are uncertain in amount and difficult to prove; the amount stipulated in Article III of the Agreement for Construction is a reasonable amount in light of the anticipated loss and injury; and the Owner's actual damages in the event of delay would be impracticable or extremely difficult to fix. Bidder agrees to be bound by the liquidated damages set forth in Article III of the Agreement for Construction. Bidder further agrees that the liquidated amount stipulated in Article III of the Agreement for Construction is not a penalty.

BIDDER: _____ (Type Name of Firm)
BY: _____ (Signature of Firm's Representative)
_____ (Type Name and Title of Firm's Representative)
TELEPHONE NO. _____
FACSIMILE NO. _____
E-MAIL ADDRESS _____
BUSINESS ADDRESS _____ _____
STATE OF INCORPORATION _____

**EXHIBIT “A-1”**

**MODIFICATION  
TO BID FORM**

**MODIFICATION  
To Bid Form**

South Dakota State University  
New Headhouse and Greenhouse  
Greenhouse Package  
Brookings, South Dakota

OSE No. R0312--19X

April 6, 2016

**To:** State Engineer, Office of the State Engineer  
Joe Foss Building  
523 East Capitol  
Pierre, South Dakota 57501

Phone: 605-773-3466  
Fax: 605-773-5980  
Email: [OSE.BIDMOD@state.sd.us](mailto:OSE.BIDMOD@state.sd.us)

Please make the following modifications to our bid on the referenced project. This modification is per the Instructions to Bidders Item #3 included in the original bid documents and modifies our sealed bid.

*Note To Bidder: Please circle the appropriate ADD/DEDUCT and "X" out the undesired action.*

**Modification to Base Bid - ADD / DEDUCT to our Base Bid the Sum of**

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)

**Modification to Alternate #1 - ADD / DEDUCT to our Alternate #1 Bid the Sum of**

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)

**Modification to Alternate #2 - ADD / DEDUCT to our Alternate #2 Bid the Sum of**

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_) on a per room

basis for a total add / deduct of \_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)  
for all 4 rooms as shown on Sheet A-103.

**Modification to Alternate #3 - ADD / DEDUCT to our Alternate #3 Bid the Sum of**

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)

**Modification to Alternate #4 - ADD / DEDUCT to our Alternate #4 Bid the Sum of**

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_) on a per room

basis for a total add / deduct of \_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)  
for all 12 rooms as shown on Sheet E-101.

**Modification to Alternate #5 - ADD / DEDUCT to our Alternate #5 Bid the Sum of**

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_) on a per room basis for a total add / deduct of \_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_) for all 12 rooms as shown on Sheet E-101.

**Modification to Alternate #6 - ADD / DEDUCT to our Alternate #6 Bid the Sum of**

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)

*(Note: Liquidated damages DO NOT apply to this early completion date.)*

**TEMPERATURE CONTROL COST BREAKOUT:**

**Modification to the Temperature Control Cost Breakout - ADD / DEDUCT to our the Bid the Sum of**

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)

NOTE: This cost does not include temperature control costs for the greenhouse as defined in specification Section 131230.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. \_\_\_\_\_ dated \_\_\_\_\_ respectively.

In submitting this modification to bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within 30 days after the actual opening thereof.

BIDDER: _____ (Type Name of Firm)
BY: _____ (Signature of Firm's Representative)
_____ (Type Name and Title of Firm's Representative)
TELEPHONE NO. _____
FACSIMILE NO. _____
E-MAIL ADDRESS _____
BUSINESS ADDRESS _____ _____
STATE OF INCORPORATION _____

## LIGHTING FIXTURE SCHEDULE

TYPE NO.	DESCRIPTION / SPEC. NO.	LAMPS			VOLT	MOUNTING	NOTES	OTHER MANUFACTURERS PROVIDED BY
		NO.	WATT	TYPE				
A	METAL HALIDE GROW FIXTURE PARSOURCE (SEE NOTE 1)	1	1000	METAL HALIDE	208	BRACKET MOUNT	1, 5, 7	GREENHOUSE PROVIDER
A1	LED GROW LIGHT (NOTE 6) A-5 ALTERNATE PARSOURCE LUMIGROW PRO325 LED	1	325	LED	208	CHAIN MOUNT	5, 6, 8	GREENHOUSE PROVIDER
B	HIGH PRESSURE SODIUM GROW FIXTURE PARSOURCE (SEE NOTE 2)	1	1000	HPS	208	BRACKET MOUNT	2, 5, 7	GREENHOUSE PROVIDER
C	INDUSTRIAL SEALED FIXTURE METALUX #VT2-232-DR-UNV-ER81-WL	2	32	F032-T8 4100K OCT	120	SURFACE MOUNT	3, 4, 9, 10	1, 2, 3
D	INDUSTRIAL SEALED FIXTURE W/EMERG. BALLAST METALUX #VT2-232-DR-UNV-EL-ER81-WL	2	32	F032-T8 4100K OCT	120	SURFACE MOUNT	3, 4, 9	1, 2, 3
G	LED EMERGENCY WALL PACK COOPER #ISC-C02-LED-E1-BL3-BZ-CWB	7	54	3249 LUMENS 70cr-4000k	120	WALL MOUNT		1, 2
K	INDUSTRIAL SEALED FIXTURE W/EMERG. BALLAST METALUX #VT2-232-DR-UNV-EL-ER81-WL	2	32	F032-T8 4100K OCT	129	SURFACE MOUNT	10	1, 2, 3

**OTHER MANUFACTURERS**

- 1 LITHONIA
- 2 COLUMBIA
- 3 DAY-BRITE

**NOTES:**

- 1 PARSOURCE 1000W/240V ELECTRONIC ATTACHED BALLAST - 'GLE1240A' WITH 'GLX' REFLECTOR WITH SOCKET AND GLASS LENS 'GLXLENSYS' AND WIRE SUPPORT 'GLX55031A/GLX55018' AND 1000W MH LAMP 'HX53967'. PROVIDE WITH 15A, 8FT. POWER CORD AND 240V (6-15P) PLUG AND 2 'C' BRACKETS. FUSE FIXTURE PER MANUFACTURER RECOMMENDATIONS.
- 2 PARSOURCE 1000W/240V ELECTRONIC ATTACHED BALLAST - 'GLE124A' WITH 'GLX' REFLECTOR WITH SOCKET AND GLASS LENS 'GLXLENSYS' AND WIRE SUPPORT 'GLX55031A/GLX55017' AND 1000W HPS LAMP 'BUSD1TH'. PROVIDE WITH 15A, 8FT. POWER CORD AND 240V (6-15P) PLUG AND 2 'C' BRACKETS. FUSE FIXTURE PER MANUFACTURER RECOMMENDATIONS.
- 3 ALL FLUORESCENT LAMPS SHALL BE 85 CRI, 4100K.
- 4 ALL FLUORESCENT BALLASTS TO BE HIGH FREQUENCY ELECTRONIC RAPID START AND HAVE LESS THAN 10% THD. AND AN A+ SOUND RATING.
- 5 CONTRACTOR TO VERIFY LIGHT FIXTURE INSTALLATION REQUIREMENTS.
- 6 PROVIDE WITH 15A, 8FT. POWER CORD AND 240V (6-15P) PLUG. PROVIDE CHAIN FOR MOUNTING. PARSOURCE IS NOT LIABLE FOR THE PERFORMANCE OF THE CUSTOMERS CROP GROWN UNDER LED LIGHTS SINCE THIS IS NEW TECHNOLOGY. FUSE FIXTURE PER MANUFACTURER RECOMMENDATIONS.
- 7 OTHER MANUFACTURERS GROW FIXTURES SHALL BE APPROVED EQUAL PROVIDED THEY MEET THE MINIMUM FOOTCANDLES OF 1000FC FOR THE TEN SMALLER CHAMBERS AND 1400FC FOR THE TWO LARGER CHAMBERS. IF THE APPROVED EQUAL FIXTURES REQUIRE MORE FIXTURES IN NUMBER THAN THE MH/HPS FIXTURES IN EACH CHAMBER THAT ARE SPECIFIED, COORDINATE WITH GREENHOUSE PROVIDER TO PROVIDE ADDITIONAL BREAKERS IN CHAMBER PANELS AS NEEDED. PROVIDE FIXTURE INFORMATION, LAYOUT, AND POINT BY POINT FOR PRIOR APPROVAL BEFORE BID.
- 8 OTHER MANUFACTURERS LED GROW FIXTURES SHALL BE APPROVED EQUAL PROVIDED THEY MEET THE MINIMUM FOOTCANDLES OF 1000FC FOR THE TEN SMALLER CHAMBERS AND 1400FC FOR THE TWO LARGER CHAMBERS. IF THE APPROVED EQUAL FIXTURES REQUIRE MORE FIXTURES IN NUMBER THAN THE MH/HPS FIXTURES IN EACH CHAMBER THAT ARE SPECIFIED, COORDINATE WITH GREENHOUSE PROVIDER TO PROVIDE ADDITIONAL BREAKERS IN CHAMBER PANELS AS NEEDED. PROVIDE FIXTURE INFORMATION, LAYOUT, AND POINT BY POINT FOR PRIOR APPROVAL BEFORE BID.
- 9 FIXTURES REQUIRE MORE FIXTURES IN NUMBER THAN THE MH/HPS FIXTURES IN EACH CHAMBER THAT ARE SPECIFIED. COORDINATE WITH GREENHOUSE PROVIDER TO PROVIDE ADDITIONAL BREAKERS IN CHAMBER PANELS AS NEEDED. PROVIDE FIXTURE INFORMATION, LAYOUT, AND POINT BY POINT FOR PRIOR APPROVAL BEFORE BID.
- 10 WITHIN GREENHOUSE CHAMBER SHALL BE WALL MOUNTED TO NEAREST WALL SUPPORT ABOVE 7'-0" AFF. COORDINATE WITH GREENHOUSE SUPPLIER FOR ANY ADDITIONAL WALL SUPPORT STRUCTURE NEEDED FOR MOUNTING FIXTURE.
- 11 FIXTURE IN CORRIDOR 132 SHALL BE MOUNTED AT 10'-6" TO BOTTOM OF ROOF STRUCTURE JOIST.
- 12 THE EMERGENCY BALLAST/BATTERY SHALL BE CONNECTED TO A SINGLE LAMP UNSWITCHED. THE OTHER LAMP SHALL BE CONTROLLED BY MOTION SENSORS AS INDICATED ON THE DRAWINGS.

**Client Information**

**SDSU**  
South Dakota  
State University  
Brookings, South Dakota

**Project Information**

New Greenhouses

Issue Date	03-30-2016
Job #	120124
Drawn by:	DCI
CADD file:	DCI

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Drawing Title  
Lighting Fixture Schedule  
Changes

From Sheet: E-101  
for CA use:

Drawing #  
E-101.1

3/30/2016

LIGHTING SHEET CHANGES

Lincoln  
1221 N Street, Suite 800  
Lincoln NE 68508  
Phone 402-476-9700  
Fax 402-476-9722  
Vermillion  
15 East Main, Suite 201  
Vermillion, SD 57069  
Phone 605-824-1081



## GENERAL ELECTRICAL NOTES:

- 1
- \* 14. UNDER BASE BID, ALL CHAMBERS SHALL HAVE GENERAL WALL LIGHTING, CONDUIT, CIRCUITS, AND RECEPTACLES INSTALLED FOR GROW LIGHTS.
  - \* 15. UNDER ALTERNATE A-4, PRICE SHALL BE FIGURED PER CHAMBER FOR INSTALLATION OF METAL HALIDE AND HPS GROW FIXTURES IN ALL CHAMBERS.



2

# Alternate A-5 Lighting Greenhouse Plan

Scale: 1/8" = 1'-0"



3/30/2016

LIGHTING SHEET CHANGES



**Lincoln**  
 1221 N Street, Suite 600  
 Lincoln NE 68508  
 Phone 402-476-9700  
 Fax 402-476-9722

**Vermillion**  
 15 East Main, Suite 201  
 Vermillion SD 57069  
 Phone 605-624-1081

### Client Information

**SDSU**  
 South Dakota  
 State University  
 Brookings, South Dakota

### Project Information

**New Greenhouses**

Issue Date	03-30-2016
Job #	12-0124
Drawn by:	DCT
CADD file:	

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Drawing Title  
 Drawing Title  
 and Subtitle

From Sheet: E-101 for CA use:

Drawing #  
 E-101.2