2021 KADF Project Proposal
Hardin County Schools

Application Components

KADF Project Application
Signature Authorization
4.2 Cash Flow

Supporting Documents

5.1 Project Manager Resume
5.2 Letters of Commitment
5.3 Quote
5. 3 Letter: District Expenses

Additional Documentation

b. Statement of Net Position
k. Ariel Photo
k. Site Drawing

Dear Agriculture Development Council,

Please accept this grant proposal for Hardin County Schools on behalf of John Hardin High School. We greatly appreciate the opportunity to apply for 2021 Kentucky Agricultural Development Fund project funding.

Should you have any questions about the proposal or if additional documentation is needed, please do not hesitate to contact either the Project Manager, Jeremy Hall or Buildings and Grounds Director, Joe Stuecker.

Thank you for your past and future support of Hardin County Schools in agricultural education endeavors.

Sincerely,

Susan Ryan
Grant Writer
Hardin County Schools
susan.ryan@hardin.kyschools.us

KADF KENTUCKY AGRICULTURAL DEVELOPMENT FUND

2021 KADF Project Application
REQUEST FOR FUNDS

Application Number:
KOAP Use Only

PLEASE CAREFULLY REVIEW THE REQUEST FOR FUNDS GUIDELINES PRIOR TO COMPLETING AN APPLICATION

Funded participants shall adhere to all local, state and federal rules and regulations.

Applicant Information

Has this organization/individual ever submitted an application to the KADF? ☐ Yes ☑ No

1a. Organization Name (Legal Name of the Farm Business Entity or Individual):	**1b. Tax Identification Number (EIN/SSN):**
Hardin County Schools	**61-6001274**
Must match the name registered to the TIN provided in 1b.	***Nine** digit number issued by the IRS*

1c. County	**1d. For Profit?**	**1e. Main Phone**	**1f. Digital Media (opt.)**
Hardin	☐ Yes ☑ No	**(270) 769-8800**	Twitter Handle: @HardinCoSchools
1g. Registered with the Ky. Secretary of State's Office? ☐ **Yes** ☑ **N/A** - *individuals/sole proprietors, board of education, conservation district, fiscal court, other gov't* ☐ **No**			Facebook ID: @hardincountyschools
			Website: hardin.kyschools.us

If you are not registered, and are required to be, then visit sos.ky.gov.

2. Organization Address (Check will be mailed here)

65 W.A. Jenkins Road		
Address Line 1		*Address Line 2*
Elizabethtown	**KY**	*42701*
City	*State*	*ZIP Code*

3a. Authorized Representative (AR) (person authorized to sign legal contracts on behalf of the organization/individual)

Ms.	*Teresa Morgan*	**Superintendent**
Prefix	*Name (First MI Last)*	*Title*

3b. AR Contact Info

Teresa.morgan@hardin.kyschools.us	**270-769-8817**	
Email	*Work Phone*	*Mobile/Cell Phone*

3c. AR Address (Legal Agreement will be mailed here)

65 W.A. Jenkins Road		
Address Line 1		*Address Line 2*
Elizabethtown	**KY**	*42701*
City	*State*	*ZIP Code*

4a. Project Contact (if different from AR, person(s) responsible for the daily management of the project)

Mr.	*Jeremy Hall*	**Agriculture Education Teacher**
Prefix	*Name (First MI Last)*	*Title*

4b. Project Contact Info

Jeremy.hall@hardin.kyschools.us	**270-769-8906**	**270-234-8906**
Email	*Work Phone*	*Mobile/Cell Phone*

4c. If there are multiple project contacts, then list others here with name, email and phone:

Joe Stuecker, Director of Buildings and Grounds
Joe.stuecker@hardin.kyschools.us, 270-769-8880

KADF
KENTUCKY AGRICULTURAL DEVELOPMENT FUND

Project Location & Request

5. Project Address (If different than addresses in 2. or 3c. above)

N/A			
Address Line 1		*Address Line 2*	
	KY		
City	*State*	*ZIP Code*	*Project County*

This application is for requests to fund projects that fall outside standard county program guidelines. Requests for additional funds for an existing project should use the "Request for Amendment" Form.

6a. County Funds Requested: County*: Hardin Amount: **$ 64,908**

6b. State Funds Requested: **$**

6c. TOTAL Agricultural Development Funds Requested: $64,908

Reflect total in budget.

*"List "County, Amount" here, if **multiple county requests**: _____*

7. Has the organization / individual listed in 1a. received a KADF award prior to this application? ☐ Yes ☑ No **If yes, please specify totals:** **State $** **County $**

Documentation Check List

Please mark each item that is included in the submitted application.
An incomplete application may delay processing of request.

- ☑ **Completed application,** signed by the Authorized Representative of the entity or individual applying
- ☑ **Registered and in good standing with the Secretary of State**
  (Exceptions: sole proprietorship / unregistered partnership, board of education, conservation district, governmental entity)
- ☑ **Signature Authorization**
- ☑ **Financial Documentation / Budget,** as outlined in section 4.
- ☑ **Supporting Documents,** as outlined in section 5.
- ☐ **On-Farm Water Management submissions** consult On-Farm Water Management Guidelines for all required documentation
- ☐ **Meat Processing Levels 3 & 4 submissions** consult Meat Processing Investment Program Guidelines for all required documentation
- ☑ **Press Release Sheet**

Please, DO NOT submit applications with any type of binding (e.g. notebooks, spiral binding, etc.).

See *Guidelines – Request for Funds* for important information to consider when applying for funds and for instructions on submitting your proposal. There are also additional guidelines for farmers market and community garden applications.

The above referenced guidelines are available online at https://agpolicy.ky.gov/funds/Pages/program-portal.aspx.
Click on KADF Project Application to view all options.

The Kentucky Agricultural Development Board and the Kentucky Office of Agricultural Policy reserve the right to request or require revisions or clarifications of submitted proposals.

KADF
KENTUCKY AGRICULTURAL DEVELOPMENT FUND

Answers to the following questions may be done in a separate document, using the same numbering to identify each question being answered.

If a question does not apply to your project, then enter N/A.

1. General Questions

1.1 Briefly describe your project (75 words or less):

The Greenhouse at John Hardin High School provides work-based learning experience for students enrolled in agriculture education classes through a school-based enterprise. Multivariate experimentation, hydroponic research, and urban gardening instruction conducted in the greenhouse will increase student interest in agricultural career pathways. The greenhouse will serve as an educational platform for elementary and middle school students, HCS families and community members. Opportunities exist for on-site agricultural extension classes related to hydroponics and aquaponics.

1.2 Who are the primary participants in the project?
[Participants are those groups or individuals involved in the project.]

Primary participants include over 200 students enrolled annually in JHHS agricultural education classes, including Future Farmers of America (FFA) members and the JHHS agriculture education instructor. An estimated 50 unduplicated new students will participate each year.

Minority students, who are traditionally underrepresented in agriculture career sectors represent 46.17% of the school population.

1.3 Provide detailed information on the past and present tobacco dependence of all participants in this project:

1.3.1 Did participant(s) receive a Phase II check?	☐ Yes ☐ No	1.3.2 Did participant(s) receive a Buyout check?	☐ Yes ☐ No
1.3.3 Did participant(s) own quota?	☐ Yes ☐ No	1.3.4 Has participant(s) grown and marketed tobacco?	☐ Yes ☐ No

N/A

1.4 How many farm families will benefit directly from this project in the first year? Be specific.
NOTE: *Applicants shall reveal the names of any County Agricultural Development Council members who may benefit from this proposed project.*

Unlimited; currently two local farmers are in the experimental phase of hydroponics. Our indoor hydroponic research lab and outdoor greenhouse hydroponics will serve as a hub for urban agriculture.

1.5 If this is a multi-county regional or statewide project, then please list the counties that will benefit directly?

N/A

2. Project Details

2.1 Description of project – Please give the details of the project. Tell about the project's history, present status, and future projections.

Project History: The current greenhouse at John Hardin High School has been in use for 18 years at the edge of the property located at 384 W A Jenkins Rd, bordering South Wilson Road. Agricultural education students have continuously run a successful school-based enterprise selling ornamentals and garden vegetables since construction with the exception of the last two summers due to the pandemic.

Present Status: Significant problems exist with the current structure. In 2015 a large sinkhole began opening underneath the existing greenhouse. The sinkhole has caused breakage of the concrete floors and torquing of the building. This torquing has resulted in sizable gaps of 6-8 inches and windows and side walls popping off the structure. Pests, including copperheads, enter the building on a regular basis. The existing greenhouse is tremendously energy inefficient which results in sub-standard growing conditions. Educators and students are unable to secure the building with locks due to misalignment of doors. The building is located in a swampy area that is a five-minute walk from the main building. Safety issues include students walking on W.A. Jenkins road and a lack of cover for students during severe weather or threats to school safety. (In 2018 a shooter was shot and killed within 500 feet of the greenhouse. Rain prevented students from walking to the greenhouse that day.) Currently students with disabilities are unable to participate in greenhouse activities due to the distance from the school, terrain, and other accessibility issues.

Future Projections: The updated greenhouse will allow the JHHS Agriculture Department to continue to offer a greenhouse program that is accessible to all students regardless of disability. Additionally, the greenhouse program will have expanded growing capabilities. JHHS is a model hydroponics and aquaponics site for other Kentucky schools. A new, functional greenhouse will allow hydroponic products to be expanded from leafy greens to hydroponic products which require pollination. The greenhouse will allow students to conduct additional experiments involving germination, lighting, and photoperiodism, among others. With Kentucky Agriculture Development funding, our greenhouse program will be able to continue to work with Kentucky Fresh Harvest. The partnership provides technical support for the JHHS aquaponic program and the opportunity to test hybrid seeds for the organization. The seeds are provided at no cost to JHHS. The educational videos JHHS students will produce for Kentucky Fresh Harvest will be shared across the United States. 20-30K plants will be grown for the spring season and for the fall season. In the spring, the greenhouse will support 500 plants of each variety.

In addition to increased growing capabilities, a new greenhouse will directly impact the growth of urban agriculture and provide agricultural education to the most urban area of Hardin County. The school is located midway between Radcliff, Kentucky and the county agricultural extension office and the countywide farmer's market. A notable opportunity exists for on-site urban gardening outreach by the county extension office. Radcliff's population density (1,847 people/mi²) parallels that of the most densely populated city in the state, Louisville Metro, (1,924 people/mi²). The site is centrally located between northern and southern parts of the fourth largest county in Kentucky, measuring 623 square miles.

2.2 Products or services – Provide a detailed description of products or services related to this project.
What products or services will be offered? What is unique about the products or services? What will the products or services do for customers?

Public sales in the spring will include traditional garden crops, hanging baskets, and ornamentals. Products include impatiens, wave petunias, elephant ear, ten varieties of tomatoes and peppers, geraniums, marigolds, and dianthus, among others. Greenhouse products will include fruity

hydroponics such as tomatoes and cucumbers, considered unique products. Currently students are limited to hydroponics grown indoors. Fall sales for the public will include mums and poinsettias. The greenhouse has a loyal customer base due to the reputation of high-quality vegetables and healthy plants. Students will provide education to customers about the plants being purchased and the ease of growing plants at home, even in limited space (e.g., container gardening).

The Greenhouse at John Hardin High School has historically been and is projected to be economically viable due to greenhouse sales being self-sustaining.

(Project Details, cont.)

2.2 Describe how the Kentucky Agricultural Development Funds will be used.
Note: Only project expenses incurred after receipt of the application by the Kentucky Office of Agricultural Policy are eligible for funding.

Kentucky Agricultural Development Funds (KADF) will replace the existing 18-year-old greenhouse with an Educator Series 24' x 48' Greenhouse including ventilation, heating, temperature control, irrigation, and benches. The greenhouse vendor quote of $69,815 includes installation. Preparation for the site includes expenses for utility installation, concrete and blacktop work, including footers and slab, and electrical work, along with any additional construction. Expenses for site preparation are estimated at $60,000 for a total project cost of $129,815.

The entirety of grant funds requested ($64,908) would be designated for the purchase of the greenhouse structure. Without KADF, a new greenhouse is not possible. John Hardin HIgh School's (JHHS) student body is less than half the size of the student bodies at Central Hardin and North Hardin high schools. This means JHHS receives less than 50% of SEEK funds of the larger schools but is expected to provide equitable career technical education. The purchase of equipment and large expense items for career technical education causes considerable stress on the school.

2.4 What criteria will be used to measure the success of your project? What measurable data will you use in defining progress/success?

The success of this project will be measured by: (1) a gain in the number of students completing an agricultural career pathway due to increased interest in agriculture and increased hands-on applications of agricultural practices. This will be measured through the TEDS database which reports pathway enrollments, activity and completion rates. (2) self-sufficiency of the school-based enterprise, measured by cash flow sheets and a year-end financial report.
(3) an increase in understanding of modern production agriculture practices in the urban population (an identified weakness in the Hardin County Agriculture Development Council's Comprehensive Plan, March 2021). This can be measured by the number of attendees for school-offered or extension agency-offered courses related to hydroponic gardening or other urban agriculture practices.

2.5 Is this project expected to create jobs? If so, how many and what type of jobs do you expect this project to create? Will these jobs be full-time, part-time or seasonal? Explain.

The project itself will not require hiring as students provide free labor as part of their agriculture classes and as members of the school FFA chapter. For this reason, the project is easy to sustain based on greenhouse sales.

The greenhouse project with its focus on hydroponic methods and other urban agriculture practices is expected to draw more students into agriculture career paths in Hardin County where industry remains a strong competitor for workers (an identified weakness in the Hardin County Agriculture Development Council's Comprehensive Plan, March 2021).

2.6 Location – Where will the project be located, and why was this location chosen?

The district architectural and engineering team consulted with school and district administrators and the agriculture teacher in selecting the site. The new greenhouse will be located immediately behind the main gym of John Hardin High School where the structure can be under video surveillance. Prevailing winds on the proposed site are beneficial for energy conservation. Students, staff, and greenhouse customers can safely access and move about the greenhouse. The greenhouse location was chosen to allow all students access to hands-on experiences in agricultural education.

2.7 Management – List the duties and responsibilities of the primary participants named in Section 1-2. List their qualifications to perform their duties, including past experience and current occupation.

Agriculture Education Students: Students will serve as greenhouse managers, plant technicians, communication specialists, marketing specialists, and STEM researchers. The Agricultural Communications class will produce how-to videos highlighting hydroponic growing processes and how to implement a small-scale hydroponic system at home. Students will develop and maintain a website featuring resource videos and weekly growing updates as part of educational outreach initiatives. Students' duties will match the qualifications necessary for individual job assignments with more experienced students and the FFA leadership team serving in jobs with the greatest responsibility. The JHHS student AquaFood Team was recognized at the Kentucky Capital for their efforts in educating and bringing awareness to food insecurity.

Agriculture Education Teacher: The agriculture teacher will serve as manager and educator of the project, providing hands-on demonstrations, mini-lessons, and school day instruction in agriculture education classes. The teacher will provide guidelines for educational outreach and give feedback and final approval for all educational videos and print materials. The teacher will work with school and district finance officials to comply with regulations governing school-based enterprises. The instructor has 21 years of teaching and greenhouse management experience. The instructor held various leadership positions with the Kentucky Association of Agricultural Educators (KAAE) and frequently served as a workshop presenter and mentor for other educators in the state.

2.8 Record Keeping – What records will be kept and how will they be used in analyzing the success of your project? Who will do your record keeping/accounting?

(1) Data entry into the TEDS database is required by the Kentucky Department of Education. The agriculture education teacher will enter student class and pathway information into the system three to four times each year. The database information can be used to analyze agricultural career pathway participation. (2) Cash flow sheets will be maintained by FFA students, reviewed by the chapter treasurer, and the chapter sponsor. All income will be received and documented following Red Book rules, as required by the Kentucky Department of Education. (3) Attendance records will be kept for all educational outreach activities. Outside organizations such as the extension office who host events at the greenhouse will report participation numbers. All attendance records will be kept in Google Sheets.

2.9 Insurance – Does your current insurance cover the components of this project? If not, what type(s) of insurance will you need? Provide quotes where applicable.

Current insurance policies maintained by Hardin County Schools cover greenhouses at all three high schools.

3. Marketing Plan

3.1 Strategy – What is your marketing strategy? How do you plan on achieving your marketing objectives?

The JHHS greenhouse marketing strategy is very simple; students will market products through service to the community. The project goal is to not only sell a variety of ornamental and vegetable plants to the community but also to provide educational outreach. Students will offer in person and digitally recorded gardening and plant care workshops for airing on Hardin County Educational and Community Television. Through proposed partnerships with local agencies and gardening clubs JHHS students can not only give customers a quality product but also show them how to grow their own plants. How-to videos will incorporate students from the JHHS Aqualab program, Agricultural Communications, Agri-Science, and Greenhouse classes to highlight hydroponic growing processes. Marketing objectives will be set and reviewed by students year-round in the Agricultural Communications class.

3.2 Target Market – What is your target market? To whom will you attempt to sell your product/service? Identify characteristics of your customers. Who are your major competitors?

The target market for greenhouse products is the surrounding community in Elizabethtown and Radcliff, Kentucky. Customers are represented by a wide range of ages. With reasonable pricing, JHHS families who are on limited incomes can purchase garden vegetables for growing in their own homes. The goal is to not only sell a variety of ornamental and vegetable plants to the community, but also to provide educational outreach. Major competitors include retail locations, the nearest being Rural King.

The target market for urban gardening education initiatives is citizens of Hardin County who live in densely populated areas and area farmers who may wish to incorporate hydroponic methods into farm operations. Students will offer in person and digitally recorded gardening and plant care workshops for airing on Hardin County Educational and Community Television. How-to videos highlighting hydroponic growing processes will be produced by students from the JHHS Aqualab program, Agricultural Communications, Agri-Science, and Greenhouse classes. There are no major competitors offering this service in the area.

3.3 Advertising - What types of advertising will you use? How will you tailor your advertising to your target market identified in the above section?

The JHHS greenhouse advertising strategy will consist of utilizing school and district social media platforms as well as creating our own platforms. This free method will reach a wide range of people, considering many stakeholders and community members follow district schools on social media. The student advertising team will also use direct email to contact HCS teachers and faculty members. Producing educational segments on Hardin County Educational and Community television will expose the program and greenhouse to a large audience around the county. Advertising will be tailored with feedback from customers who are shopping. Asking customers, "What brought you to the greenhouse today?", and "How did you hear about us?" will allow students to customize advertising strategies.

3.4 Pricing – What is your product/service price? How did you arrive at your pricing structure?

Products are priced slightly below local markets as a service to the community. The quality of the plants is significantly higher than similar products found in retail stores. The pricing structure has been successful in helping the greenhouse remain self-sufficient over the past 15 years. Any changes to pricing structure are discussed by the agriculture education teacher and the FFA leadership team.

3.5 Distribution – What is your distribution strategy?

Distribution of greenhouse products will occur during after-school and evening hours, as well as some Saturdays. The FFA Leadership Team have already created daily operational procedures and checklists for the sale of products.

4. Financial Documentation

4.1 Project Budget Detail & Description – Complete the attached Project Budget & Description Form. Provide any other pertinent information on additional sheets.

4.2 All Projects – Provide a two-year projected cash flow statement.

4.3 Existing Businesses – Submit previous year's balance sheet and income statement.

4.4 New Businesses – Provide pro forma balance sheet and income statement, including pertinent assumptions.

5. Supporting Documents

Depending on the size, scope and type of project, you may be asked to provide one or more of the following:

5.1 Resumes – Provide résumés for all management team participants mentioned in section 2.7.

5.2 Letters of Commitment – Provide a letter from each project participant who is directly involved in implementing and maintaining the project. This letter should explain what role this participant plays in this project.

5.3 Invoices / Cost Estimates / Quotes – For equipment purchases, construction activities or remodeling, please provide copies of invoices, written estimates, or catalogue pages noting price of equipment.

5.4 Copies of leases, contracts or other legal documents (if applicable)

5.5 Formal Business Plan - If you have a formal business plan, please submit a copy. This application provides the minimum requirements for a business plan. Note that the business plan is the most essential portion of this application.

5.6 Additional Documentation -

a. business tax returns for the previous three years
b. personal financial statements from each business owner and principal manager
c. personal income tax returns from each business owner for up to the previous three years
d. schedule relating to any lines of credit, promissory notes or outstanding loans with terms, payment schedule and collateral used for security
e. letter of reference/commitment from bank or other lenders
f. a sources and uses of funds statement
g. information necessary to obtain a credit report
h. appraisal of project related properties
i. legal instruments that relate to business formation and organization
j. explanation of any judgments, collections, liens or bankruptcies
k. plans, drawings, photographs or sketches of project
l. bids or contracts for equipment and outside services
m. letter of intent from potential customers or distributors
n. current materials such as brochures, business cards, stationery and promotional pieces
o. copies of any applicable licenses or permits
p. producer commitment form
q. resumes of key management personnel
r. any other information deemed necessary

See **"Request for Funds - Guidelines"** for important information to consider when applying for funds, especially matching* requirements.

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Project Budget & Description Form

Section 1: Project Budget

Budget Category/Item	Description	Total Item Amount	Other Funds** (Match)	KADB Funds Requested*
Example: Cooler	*10'x20' double door walk-in*	*$12,000*	*$6,000*	*$6,000*
24' x 48' Greenhouse	"Educator Series" by Atlas	$69,815.36	*$4,907.36*	$64,908
	This is an inclusive package			
	(see additional documenta-			
	tion): galvanized steel			
	frame, end gables, ventila-			
	tion, heating, doors, auto-			
	matic temperature control,			
	hanging basket rails, shade			
	cloth, emergency lighting,			
	benches, irrigation, and			
	installation.			
	Budget Totals:			

* In general, KADF funds should be 50% or less of the total project costs.

Section 2: Matching Funds (**Other Funds)

Source of Match	Secured or Pending?	Match Amount ($)
Example: Loan – local bank (commitment letter attached)	*Secured*	*$6,000*
Construction Costs not provided by greenhouse contractor	**Secured**	$60,000
Includes all site work, concrete footers, curb & slab to ADA		
accessibility, installation of gas, water, sewage, and drains, rock,		
concrete and blacktop repair, lighting, construction code		
requirements & permits as well as any additional construction.		
	Total:	

Attach additional pages, as necessary, as well as provide any comments or clarifications regarding your request for funding. Documentation to verify matching funds may be requested.

For assistance in completing the budget and/or matching fund sections, please contact KOAP at 502-564-4627 and ask for a project manager.

You may be asked to submit a revised budget if the budget you provide does not fit within funding guidelines.

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Disclaimer and Signature

By affixing a signature to this application, the applicant(s) certifies that he/she has read and understands the guidelines governing funds and agrees to all conditions set forth therein; and that all information contained in this application package is true to the best of the applicant's knowledge, information, and belief.

The applicant(s) also authorizes the Kentucky Agricultural Development Board and any of its representatives to make all necessary investigations of financial, credit, and other records through credit agencies and authorize the release of any and all information, which may be relevant to making a decision on this application.

The Kentucky Office of Agricultural Policy (KOAP) reserves the right to request or require sufficient documentation to verify the responses to each of the questions on this application. Inability or refusal to provide documentation for specific responses or confirmation of fraudulent responses will result in disqualification for consideration.

The Kentucky Agricultural Development Board reserves the right to terminate any Legal Agreement with the applicant, if at a future date it becomes aware of any false statements or material misrepresentation(s) contained in this application.

Funded participants shall adhere to all local, state and federal rules and regulations.

By signing this, I acknowledge that I have read the above disclaimer and accept and agree to be bound by the terms thereof.

Signature of Applicant or Authorized Representative: Teresa Morgan Date: May 12, 2021

Name, printed: Teresa Morgan, Superintendent

KAFC
Kentucky Agricultural Finance Corporation

Note: *Financing for your project may also be available through the Kentucky Agricultural Finance Corporation, which provides low interest loans in participation with your local lender. For more information, visit http://kafc.ky.gov or contact Ali.Hulett@ky.gov, (502)-564-1757.*

Application Number:
KOAP Use Only

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2021 Kentucky Office of Agricultural Policy
PRESS RELEASE INFO SHEET

Introduction

The Kentucky Office of Agricultural Policy sends out press releases on projects and programs approved through the Kentucky Agricultural Development Fund. To ensure the proper message is distributed to media and other contacts, please provide the following information:

Applicant Information for Use in Press Release

APPLICANT NAME:
Hardin County Schools (on behalf of John Hardin High School)

PROJECT TITLE:
The Greenhouse at John Hardin High School

CONTACT PERSON: **Jeremy** (*First Name*) **Hall** (*Last Name*) **Agriculture Teacher** (*Title*)

Phone: (270) 270-8906 Cell: (270) 234-4037 Organization Website: **hardin.kyschools.us**

E-mail Address* : **Jeremy.hall@hardin.kyschools.us** ** This email may be used in the press release.*

Add me to the county e-mail distribution list: ☐ Yes ☐ No ☑ Already on

Add me to the general distribution list for all KOAP updates: ☐ Yes ☐ No ☑ Already on

Project / Program Request

Provide a brief summary of the project. (What is the main goal of the project? What will the funds be used for?)
The Greenhouse at John Hardin High School provides work-based learning experience for students enrolled in agriculture education classes through a school-based enterprise. Multivariate experimentation, hydroponic research, and urban gardening instruction conducted in the greenhouse will increase student interest in agricultural career pathways. The greenhouse will serve as an educational platform for elementary and middle school students, HCS families and community members. Opportunities will exist for on-site agricultural extension classes related to hydroponics and aquaponics.

Any other information you would like to include in press release:
Kentucky currently takes center stage in greenhouse production. The largest greenhouse in world, a 2.76-million-square-foot high-tech structure is located in Appalachia. The Greenhouse at JTA will be a model site for educating community members from urban populations about urban gardening techniques. Agriculture students at John Hardin High School have unique learning opportunities through high tech aquaponic and hydroponic labs.

LOCAL MEDIA: Please provide e-mail addresses or fax numbers for local or regional newspapers, radio or television stations, magazines or other media outlets that cover your area:

The News-Enterprise: 270-765-7318 (fax)

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Notice of Intent to Release

Monthly approved program awards will be listed in the statewide press release sent immediately following the respective Kentucky Agricultural Development Board meeting. This release will include the contact information provided above. Individual project press releases will be on a case-by-case basis.

If you would like to request an individual press release for your project, then please submit your request to govkyagpolicy@ky.gov.

Duties and Responsibilities of the Secretary

RECORDS

The secretary shall keep the records of the Board and perform other duties imposed by the Board. All orders of the Board must be signed by the secretary and countersigned by the chairperson of the Board. The secretary shall be custodian of all securities, documents, title papers, and other papers of the Board under such conditions as the Board may direct. The secretary, when other than the Superintendent, shall make all records of the Board available to the Superintendent and the Board at any time upon request of the Superintendent or the Board.[1]

MEETINGS

The secretary shall be present at the meetings of the Board except when tenure, salary, or the administration of the office is under consideration and shall record in a book provided for that purpose all its official proceedings, which shall be a public record open to inspection unless otherwise exempted from inspection by law.[2]

DESIGNATION OF SECRETARY

The secretary shall not be a member of the Board. The Board may appoint the Superintendent as secretary. However, if appointed secretary by the Board, the Superintendent shall not receive compensation in addition to that received for serving as Superintendent. If a person other than the Superintendent is appointed, the Board may fix a reasonable salary for the secretary.

The secretary shall be appointed no later than the first regular meeting after a vacancy occurs. The term of the secretary shall be for one (1) year.

REFERENCES:

[1]KRS 160.440
[2]KRS 160.270

Adopted/Amended: 9/18/1990
Order #: 5990

Signature Authorization for the Superintendent who serves as Board Secretary

John Hardin High School Greenhouse
Projected 2-Year Cash Flow Statement

Year 1

Expenses:

- Plants (504 and 288 Plugs)= $3,500
- Supplies (Soilless media, grow trays, rockwool, and fertilizer)= $1,500

Income:

- Plant sales (ornamental plants, vegetable plants, and hydroponic crops)= $8,000

Year 2

Expenses:

- Plants (504 and 288 Plugs)= $3,500
- Supplies (Soilless media, grow trays, rockwool, and fertilizer)= $1,000

Income:

- Plant sales (ornamental plants, vegetable plants, and hydroponic crops)= $8,000

133 Shayla Court
Rineyville, KY 40162
(270) 234-4037
Jeremy.Hall@hardin.kyschools.us

Jeremy Hall

Summary

I am currently the Agriculture Education Teacher/FFA Advisor and Assistant Baseball Coach at John Hardin High School. I have taught agriculture at Meade County High School and John Hardin High School for a combined 21 years. In those years I have held multiple leadership roles within those buildings, in various projects for the Kentucky Department of Education, within the community, and within my state professional teachers organization, KAAE.

Highlights

2010 KAAE Kentucky Agriculture Teacher of the Year

2013 Kentucky Farm Bureau/KACTE Kentucky Teacher of the Year in Community Service

Talents Leadership Academy Graduate- KACTE

Kentucky Leadership Academy Graduate- KDE

Agri-Business and Natural Resources Career Pathway Development Team- KDE

KOSSA Assessment Scenario Scorer- KDE

KOSSA Assessment Test Evaluator/Scenario & MC Question Test Bank Writer- KDE

Natural Resources Pathway Curriculum Development Committee Chair- KDE

CTE Careers Curriculum Team Member- KDE

KAAE Agriculture Advocacy Committee State Chairperson

Hardin County Extension Office Board Member

Hardin County 4-H Board Member

KACTE Summer Conference Presenter

KAAE Winter Workshop Presenter

GRREC Professional Learning Communities Coaching Academy

Work Experience

John Hardin High School, Elizabethtown, KY — *Agriculture Education/FFA Advisor*

November 2011 - Present

- CTE Department Chair
- Professional Development Committee Chair
- School Safety, IEP,Graduation and School Culture Committees
- Assistant Baseball Coach

Meade County High School, Brandenburg, KY — *Agriculture Education/FFA Advisor*

July 2001 - October 2011

- CTE Department Chair
- Assistant CTE District Coordinator

Knott County Central High School, Hindman, KY — *Agriculture Education/FFA Advisor*

August 2000 - June 2000

Education

University of the Cumberlands, Williamsburg, KY — *Education Specialist (Principal, all Grades)*

January 2016 - May 2017

University of Kentucky, Lexington, KY - *M.S. Career, Technical, Communication, and Leadership Education*

August 2003- August 2007

Morehead State University, Morehead, KY - *B.S. Science (Agriculture Education)*

August 1996- May 2000

References

Mark Wells
Principal, John Hardin High School
(270) 769- 8906

Matt Chaliff
Agriculture Education Consultant
Kentucky Department of Education
(502) 564-3472

Marcus Adams
Associate Superintendent for
Curriculum, Instruction and Assessment,
Meade County Schools
(859) 200-2122

HARDIN COUNTY SCHOOLS
HELPING CHILDREN SUCCEED
Teresa Morgan, Superintendent

Joe Stuecker
HCS Dir. Buildings & Grounds
2490 Leitchfield Road
Elizabethtown, Ky 42701
(270) 769-8880

May 12, 2021

Hardin County Ag Development Council
111 Opportunity Way
Elizabethtown Ky 42701

Re: Letter of Commitment

Hardin County Schools Buildings and Grounds is committed to constructing and maintaining all district facilities to the highest standards. The greenhouse at John Hardin is no exception. In working with the construction contractors during the installation we will ensure that the project is completed efficiently and finished to Hardin County Schools' standards for new construction.

Upon completion of the project and in the years to follow, the HCS Buildings and Grounds Maintenance Department will perform preventative maintenance and maintain the greenhouse to industry standards. Our department is made up of licensed HVAC, electrical, and plumbing maintenance workers as well as carpenters, preventive maintenance staff, and general maintenance workers. Any issues that arise outside of our department expertise will be contracted out to maintain the greenhouse for optimal performance.

If you have any questions, please feel free to contact me in regards to the commitment of Hardin County Schools to the success of the John Hardin greenhouse project.

Thank you,

Joe Stuecker

John Hardin High School
Mark Wells, Principal
384 W. A. Jenkins Road
Elizabethtown, KY 42701
Phone: 270 769-8906
FAX: 270 769-8996

Kim Case
Assistant Principal

Eddie Wilkerson
Assistant Principal

Tiffany Jones
Asst. Prin./Instr. Prgm. Spec.

Tara Graziano
Counselor

Chad Lewis
Counselor

May 12, 2021

To Whom It May Concern:

It is with great enthusiasm that I write this letter of commitment for the purpose of building a new greenhouse at John Hardin High School. During my eight years as an administrator at JHHS, I've watched our agriculture teacher, Jeremy Hall, work extremely hard to provide his students with opportunities beyond the traditional classroom.

Through classroom observations and by listening to student presentations, it's very clear that Mr. Hall's instruction is what I would term, "cutting edge" for his content. His students are well informed about the latest trends in agriculture, including the aquafood lab. I've watched Mr. Hall create an excitement and passion for agriculture education in a variety of students, including many who did not plan to pursue agricultural education previously. This desire from Mr. Hall and his students to "stay ahead" on the latest information and ideas regarding agriculture has helped create a positive culture in our program and school.

I'm extremely proud of our agricultural program and I work to provide support in a variety of ways including the following:

- Instructional walkthroughs and provide feedback to Mr. Hall
- Listen to student presentations and provide feedback
- Utilize school social media to inform our community about the great things happening in our program
- Celebrate the success of award winning agriculture students and projects
- Facilitate visits from community members to our greenhouse, classroom, and aquafood lab
- Assist local media with stories about our agricultural program
- Conduct walkthroughs both throughout the school year and in the summer time to assess maintenance needs

I greatly appreciate the support for building a greenhouse that is accessible and safe for all John Hardin High Schools students. I believe this project will serve as a catalyst for more exploration of the latest trends in agriculture, create stronger connections with our community, and most importantly, increase learning opportunities for our students.

Sincerely,

Mark Wells

Mark Wells
Principal
John Hardin High School

John Hardin FFA
384 W. A. Jenkins Rd.
Elizabethtown, KY 42701
(270) 769-8906

To Whom It May Concern:
I am extremely excited and pleased to write this letter of commitment. For the last several years my students have tried to make our current greenhouse at JHHS work the best that we can. We have worked through sinkholes causing a slow deterioration of the physical structure, copperhead snakes in the greenhouse, severe weather conditions, falls due to inaccessibility, and vehicle wrecks that came close to hitting students trying to get to the greenhouse. I cannot express how exciting it is to see the possibility of finally providing my students with the opportunity to work in a safe environment and learn about agriculture!

My students are not what you would consider "traditional" agriculture students. Most of them live in suburban homes and apartments. Despite this gap, they want to be engaged in agriculture activities and career paths. By having a functioning greenhouse I can show them and allow them to participate in a wide range of agriculture activities to help them find a agricultural career pathway that suits them. These activities range from STEM research, mechanics and engineering, biology, marketing, communication, botany, chemistry, plant genetics, and management. The current condition and circumstances of our current greenhouse just does not allow us to do this at this time.

If granted this opportunity I commit to :

i. -Work with our school leadership and district to create a safe and meaningful learning environment for our students.
ii. -Use the greenhouse to train and educate students on the importance and opportunities in the Agriculture Industry.
iii. -Maintain the greenhouse to keep it up to date and efficient for years of production
iv. -Develop and enact community learning programs based out of the greenhouse to expand and increase agriculture literacy in our community.

I want to again thank you for your consideration of our project.

Jeremy Hall
Agriculture Education Instructor/FFA Advisor

ATLAS GREENHOUSE
P.O. Box 558 9596 US Hwy 82 East • Alapaha, GA 31622
Ph: 1-800-346-9902 / Fax: 1-229-532-4600

Proposal for Hardin Co. B.O.E.

Prepared by Jim Williams
May 4, 2021

To: **Hardin County B.O.E.**
65 W.A. Jenkins Road
Elizabethtown, KY 42701

Attn:

Ph: 270-769-8800
Fx:
Cell:
E-mail jeremy.hall@hardin.kyschools.us
P.O.#

Ship to: **John Hardin High School**
384 W.A. Jenkins Road
Elizabethtown, KY42701

Attn: Jeremy Hall
Ph: 270-234-4037
Alt. Ph.

Requested delivery date: _____

"Educator" Series Greenhouse Structure

24 ft. Wide by 48 ft Long, with 6 ft. Sidewalls
Galvanized steel frame consisting of:

A) Column Post: Allied "Gatorshield" 2" x 4" x 14 ga. rectangle w/welded Plates - 6' Spacing
B) Bows: Allied 2" x 3" x 14 ga. Rectangle - 6' Spacing
C) Trusses: Allied "Gatorshield" 2" x 2" x 14 ga. Square, Spans 11' - 11" Wide.
D) Uprights: Allied "Gatorshield" 1-3/8" Round
E) Purlins 8 Runs Allied "Gatorshield" 1-3/8" Round
F) Ridge: Extruded Aluminum ridge cap allows easier installation & maintenance.
G) Roof Glazing System: Extruded Aluminum roof channels spaced 6 ft. apart.
H) Roof Glazing: 8mm clear twin wall no drip polycarbonate panels. (10 yr. warranty)
I) Eave Glazing System: Aluminum extruded eave channels allows easier installation & maintenance.
J) Eave Glazing: 8mm clear twin wall no drip polycarbonate. (10 yr. warranty)
K) Sealed Engineering Drawings for Structrual Design

Wind and Snow Loads

Wind Load (WL)	**115**	mph, 3 second gusts	**Hardin County, KY**
Snow Load (SL)	**15**	lbs. psf, Ground Snow	**Structural Drawings**
Risk Category	II		

The above Wind and Snow Loads may or may not meet your Local Building Code Requirements.

*****Notice*****

This proposal is for the structure, equipment, freight, signed/sealed drawings, and installation, including the plumbing. This does not include permits, site prep, concrete, puling of utilities, and electrical parts or labor. We don not have a licensed electrical contractor for the state of Kentucky.

End Gables

Front End Gables: Framed for 2 - 36" exhaust fans and 1 - 42" x 6' - 6" Personnel doors.

A) Framing Studs: Allied "Gatorshield" 2" x 2" x 14 ga. Square w/ brackets for wedge anchor attachment.
B) Horizontal Purlins: Allied "Gatorshield" 2" x 2" x 14 ga. Square
C) Base Extrusion: Aluminum base extrusion attractively seals and "trims out" base of greenhouse.

Rear End Gables: Framed for 4 ft. x 10 ft. Evaporative Cooling System and 1 - 42" x 6' -6" Personnel Door.

A) Framing Studs: Allied "Gatorshield" 2" x 2" x 14 ga. Square w/ brackets for wedge anchor attachment.
B) Horizontal Purlins: Allied "Gatorshield" 2" x 2" x 14 ga. Square
C) Base Extrusion: Aluminum base extrusion attractively seals and "trims out" base of greenhouse.

End Gable glazing: 8mm clear twinwall no drip polycarbonate panels, complete framing, glazing, and extrusion package. (10 yr. warranty)

Ventilation

A) 2 36" Quietaire GCS slant wall exhaust fan 3/4hp: 9464 cfm ea. @ .10 SP 110V or 220V. 1 fan is 2 speed and 1 fan is single speed both equipped with shutter and guard. Offering a minimum of 1.3 air exchanges per minute @ .10 inches of static pressure.

B) 1 24" Motorized Quietair Shutter, located above cooling pad offers a fresh air intake at the minimum stage cooling.

C) 4 x 10 ft. Stainless Steel Quietaire Evaporative Cooling System with trough, plate and 6" thick pad. The 6" pad material offers maximum cooling. Uses a 65 / 15 degree water/air flow with a 420 per maximum face velocity. System is self contained and does not require a reservoir tank. Includes sump pump and float valve for proper water level regulation.

D) 4 x 10 ft, Automatic Wall Vent located behind the evaporative cooling system. Wall vent operates using a motorized rack & pinion drive system offering years of maintenance free operation. Includes 24 volt motor, mounts and vent boss. Includes extruded aluminum frame and 10 yr. warranted 8mm polycarbonate covering.

Heating

A) 1- 200,000 BTU - L. P. Modine Gas heater.
Modine Model PTP200S Heater delivers 80% thermal efficiency in a small package. Featuring a stainless steel primary heat exchanger. Totally enclosed fan motors and all controls mounted inside the cabinet for protection from airborne moisture and dust. Comes set-up for LP gas, Natural gas conversion available.

B) 2 Horizontal Air Flow Fans (HAF) 18" - 3 bladed fans complete with guard and a split capacitor 115 volt 60 hz motor, 1.1 amps develops 1790 CFM. These fans circulate the air to maintain a consistent temperature inside the greenhouse, in addition, these fans reduce the stratification (stale air) thus reduces the risk of plant disease.

Doors

A) 2 - 48" x 7' -0" ADA compliant single swing door with 24" x 30" Tempered Glass Light Kit. Includes: 20 ga. Polystyrene Door leaf, 16 ga. 4-1/4" frame, bb hinges (3), threshold sweep, kerf weatherstrip, Sargent Rim Panic hardware, lever lockset and closer.

Automatic Temperature Control

A) Bartlett Instrument Company Climate Boss Controller.
Touch screen technology enables you to controll either mechanically or naturally cooled greenhouses. This unit comes with pre-wired relay box for ease of installation. the Climate Boss can be programmed for 1 or 2 zones and allows for programmable temperature settings in Day, Night and DIF stages. Includes 2 cycle timers for irrigation misting, or lights: a vent stage for dehumidification: an alarm outpur for high or low temperatures for the past 7 days are available as graphs. Available for an additional cost is the CIS temperature software package and HeadGrower app which allows remote control and programming.

Hanging Basket Rails:

A) Will provide 6 runs of 1-3/8" x 17 ga. Allied "Gatorshield" tubing running length of benches. 36 feet long rail length

Shade Cloth

A) Will provide a 28 foot by 48 foot (1344 Square Ft.) Svensson_Harmony Shade Cloth with 51% Shading factor. Grommeted and taped 2 foot on centers. The shade cloth will be applied to the roof of the finished structure and to be attached to the midpoint on side wall for easy installation and removal. The shade cloth will help reduce inside temperature and allow optimum growing for "Partial Sun" plant material. Included is 3/4" - 1 hole clamp with hardware and Lace Rope for Shade Cloth attachment.

Emergency Lighting / Exit Signs / Fire Extinguisher

A) Will be located above doors and will illuminate the word "EXIT" at all times, also has emergency lights powered by a rechargable battery. Emergency lights should come on when the power is interrupted for any reason.
One Multi purpose dry chemical A-B-C rated 10 lb. Fire extinguisher charged with formulated siliconized dry chemical UL rated for fighting paper, wood, fabric, grease, flammable liquid and electrical fires.

Benches

A) Benches are framed with aluminum extrusions and rectangular galvanized steel tubing for superior strength. Bench mesh is 3/4" x 13 gauge galvanized expanded metal. Bench cross braces are made of 1" x 2" rectangular tubing and spaced 2 ft. apart, bench legs consist of 1" x 2" rectangular tubing.

Qty. 8 6' x 9' - 6" Portable Benches

Irrigation:

A) Mist:

1- Complete system with brass high pressure regulator, filter, punch tool, PVC pipe, gate valves, zone controller,and solenoids. Mist irrigation plumbed above benches with 36" long misters spaced 2' on centers and will have manual shut off. Hanging basket drippers are to be adjustable flow and have the capacity to be turned off. Drippers are spaced 24" on centers and 24" long.

B) Fertilizer Injector:

1- Installed minimum of 30" ground for easy access, all irrigation outlets are serviced through fertilizer injector. Unit provides a maximum of 30 GPM of fertilizer/water solution output. Unit must be installed with bypass and gate valves for fexibility.

C) Controller:

Rain Bird Model ESP 4M Modular Irrigation Controller. Includes an additional 3 zone module to give a total of 7 zones. This controller allows for future expansion up to 13 zones. Has 3 independent programs to give the flexability

D) Includes Galvanized Steel Solenoid Manifold.

NOTE: Mininum of 55 PSI required for proper operation of irrigation system.

Installation: (Completed by Atlas Contractor)

A) Completion

1) Will provide all labor and materials to erect greenhouse using professional greenhouse builders experienced in every aspect of the "Educator" according to manufacture's specifications.

B) Electrical **Not available in KY**

C) Plumbing

1) Will furnish all labor and materials to provide: **5** spigots: **2** plumbed to injectors **3** plumbed to clear water supply utilizing Schedule 21 PVC Pipe or equivalent.
2) Will furnish all labor and material to plumb evaporative cooling system
3) Will furnish all labor and material for installation of irrigation system. (if ordered)

	Shipping	$	1,880.00
	Crating Fee	$	350.00
	Sub Total	$	46,615.36
Tax Exempt 0%	Sales Tax	$	-
	Sub Total	$	46,615.36
	Installation Total	$	23,200.00
	Grand Total	$	69,815.36

Note: Proposal valid for 30 days after: **May 4, 2021**

The Greenhouse described in this order is designed for and limited to the wind and snow loads identified and described above. These loads are based on data provided by the American Society of Civil Engineers ASCE 7-10 Manual, Figure 7-1 and the IBC-2012 Manual, Figure 1608.2 for snow as a Category I continuously heated greenhouse described in Table 1604.5 of the IBC-2012 Manual and ASCE 7-10 Manual, Figure Table 1.5-1 and the IBC-2012 Manual, Figure CC-4 for wind. It is the responsibility of the customer/purchaser of this Greenhouse to confirm with the local building authorities of the accuracy and correctness of these loads prior to the order acceptance. Atlas Manufacturing, Inc. cannot and will not be held liable or responsible for any and all damages and/or structural failures caused by prevailing load conditions at the greenhouse's erected location that exceeds the aforementioned Wind and Snow loads defined above.

I, Hardin County B.O.E. have read and understand the above order and disclaimer and agree to this order and disclaimer in their entireties. (This order is not valid unless accepted by Atlas Manufacturing, Inc.

Accepted,

Company / Individual

Name (Please Print)

Title

Signature

Date

Accepted,

Atlas Manufacturing, Inc.

Jim Williams
Name (Please Print)

Greenhouse Sales
Title

Jim Williams
Signature

5/3/2021
Date

*** Due to the volatility of fuel prices, freight charges will be determined at time of shipment and adjusted accordingly.**

ATLAS GREENHOUSE
P.O. Box 558 9596 US Hwy 82 East • Alapaha, GA 31622
Ph: 1-800-346-9902 / Fax: 1-229-532-4600

Atlas Design Load Review

All information on this sheet is required to properly design and engineer your structure. Inaccurate or incomplete information that results in changes to stamped drawings will incur an additional charge.

Date: 5/4/2021

Customer Name: Hardin County B.O.E.
Address : 65 W.A. Jenkins Road
Elizabethtown, KY 42701

Physical Address of greenhouse location:

Contact Name: _____
Contact Phone: _____

Type and size of Sturcture: _____

ARE PERMITS REQUIRED FOR THIS STRUCTURE: _____ YES _____ NO
Note: Most greenhouse structures require permitting unless there are specific agricultural exemptions for your location. If the **NO** permitting line is checked, additional cost may be incurred for structural upgrades **IF** building code or owner requirements are greater than the specified loads below.

This greenhouse is quoted as:

Building Code:	IBC 2015	
Wnd Load (WL)	115	mph, 3 second gust
Snow Load (SL)	15	lbs. psf, Ground Snow
Risk Category	I	
Exposure:	C	

Local Building Code Requirements(must be completed):

Building Code:	_____	
Wind Load (WL)	_____	Ultimate Wind Speed
Snow Load (SL)	_____	psf, Ground Snow
Risk Category	_____	(I or II)
Exposure:	_____	(A,B,C,orD)
Seismic Zone:	_____	

Are there Special Load Requirements:_____NO _____Yes: Explain below.
Example: Overhead fire protection sprinklers, hanging baskets, crops supported from structure, etc....

_____
_____
_____

Will Foundation Design be required for Permitting: _____ YES _____ NO

Will soil test results be provided for foundation design: _____ YES _____ NO

Allowable Soil Bearing Pressure: _____ p.s.f.
If unknown, a pressure of 2000 psf will be assumed and used for foundation design

Minimum Frost line requirements: _____ inches

Type of Foundation desired: **Piers with Slab** _____ **Perimeter Footer with slab** _____
Piers without slab _____ **Perimeter footer without slab** _____

Authorized Customer signature._____ Date _____

Tax Exemption Form

Purchaser: _____ Seller: Atlas Manufacturing, Inc.

Address: _____ Address: 9596 US Highway 82

City / State: _____ City / State: Alapaha, Georgia 31622

Type of Exemption Claimed: _____

Purchaser's Tax Registration OR Business License Number: _____

NOTE: If supplying a Business License number, a copy of your license must be submitted.

A copy of your State issued Certificate of Exemption Form must be submitted that indicates the type of exemption that is claimed.

Description of Goods Purchased: Description of Goods are described in the attached Sales Order.

I attest that the information provided above is accurate and that I, or my company is a registered and licensed business in the state of _____. In addition, I agree that if the goods purchased under the tax exemption status stated above are used in a taxable manner, I or my company will be responsible for any and all payments of applicable Sales and Use tax

Signature of Authorized Purchaser: _____

Date: _____

School System Responsibilities

NOTE: Site Preparation, Foundation and Flooring is the responsibility of the school system.

Electrical: NA

Plumbing

A) Required to furnish minimum 1" PVC water supply within the perimeter of the Greenhouse located near front door as shown on bench layout drawing. Minimum of 55PSI of pressure required.

Drainage

A) Local system will perform final connection of drainage system.
B) Applies to structure with sinks and / or solid concrete slabs with center drain.

Gas Line

A) School system (or others) to furnish gas line for heaters inside of greenhouse and is responsible for final hook up to heater.
B) Applies to both LP and Natural gas heater systems.

Access

A) Workers must have access to construction site from 7 A.M. to 6 P.M.
B) Workers must have access to restroom facilities.

Utilities

A) Power supply and water supply must be run to site prior to the beginning of any construction.

	Jim Williams
Acceptance by Customer (Sign Here)	Atlas Representative
	5/4/2021
Date	Date

SPECIAL NOTICE:

ATLAS MANUFACTURING, INC. CAN NOT AND WILL NOT BE HELD RESPONSIBLE FOR PRODUCT FAILURE WHERE EXCESSIVE WEATHER CONDITIONS SUCH AS SNOW, WIND, FIRE, OR HAIL HAS OCCURRED AND SUCH OCCURRENCES HAS EXCEEDED THE DESIGN LOADS STATED IN ENGINEERING SPECIFICATIONS. FURTHERMORE, ATLAS MANUFACTURING, INC. CAN NOT BE HELD RESPONSIBLE FOR PRODUCT FAILURE DUE TO IMPROPER INSTALLATION OR FAILURE TO FOLLOW MANUFACTURER'S RECOMMENDATIOI FAILURE TO FOLLOW RECOMMENDATIONS AND INSTRUCTIONS OF THE MANUFACTURER COULD RESULT IN ULTIMATE STRUCTURAL FAILURE.

HARDIN COUNTY SCHOOLS
HELPING CHILDREN SUCCEED
Teresa Morgan, Superintendent

Joe Stuecker
HCS Dir. Buildings & Grounds
2490 Leitchfield Road
Elizabethtown, Ky 42701
(270) 769-8880

May 12, 2021

Hardin County Ag Development Council
111 Opportunity Way
Elizabethtown, Ky 42701

Re: Kentucky Agricultural Development Fund

As Director of Buildings and Grounds for Hardin County Schools I am tasked with providing the highest quality educational facilities for our students, staff, and community. Our focus is on safety, comfort, energy efficiency, promoting student learning, and fiscal responsibility. In working with John Hardin Principal Mark Wells, John Hardin Agriculture Instructor Jeremy Hall, and the Hardin County Schools architectural and engineering team, we have developed a construction plan for a new greenhouse at John Hardin High School that meets all of these requirements.

John Hardin opened in 2001 with the original construction beginning in 1999. Considerable assessment and evaluation was needed to determine the proper location and construction process for the proposed greenhouse. Our team worked with JRA architects, Engineering Design Group civil engineers, and Shrout Tate Wilson mechanical and electrical engineers. Through conference calls, site visits, reviews of blueprints and schematics, an estimate was developed for the construction cost of the greenhouse.

Mr. Jeremy Hall provided the initial quote and dimensions for the greenhouse. This allowed our team to focus on the location, KY Department of Education regulations, ADA requirements, building codes, site utilities, and additional construction considerations not provided by the greenhouse contractor.

HARDIN COUNTY SCHOOLS
HELPING CHILDREN SUCCEED

Teresa Morgan, Superintendent

The following items are a summary of the additional costs associated with the greenhouse:

- site work
- concrete footers and slab
- concrete curb/ADA accessibility
- gas installation
- water installation
- sanitary sewer/drainage system
- electrical utilities
- concrete and blacktop sawing for utility installation
- rock
- concrete and blacktop repair upon completion
- electrical installation
- lighting
- electrical receptacles
- permits
- additional construction as required

Total Additional Cost $60,000

If you have any questions in regards to the cost or the assessment and evaluation process, please feel free to contact me.

Thank you,

Joe Stuecker

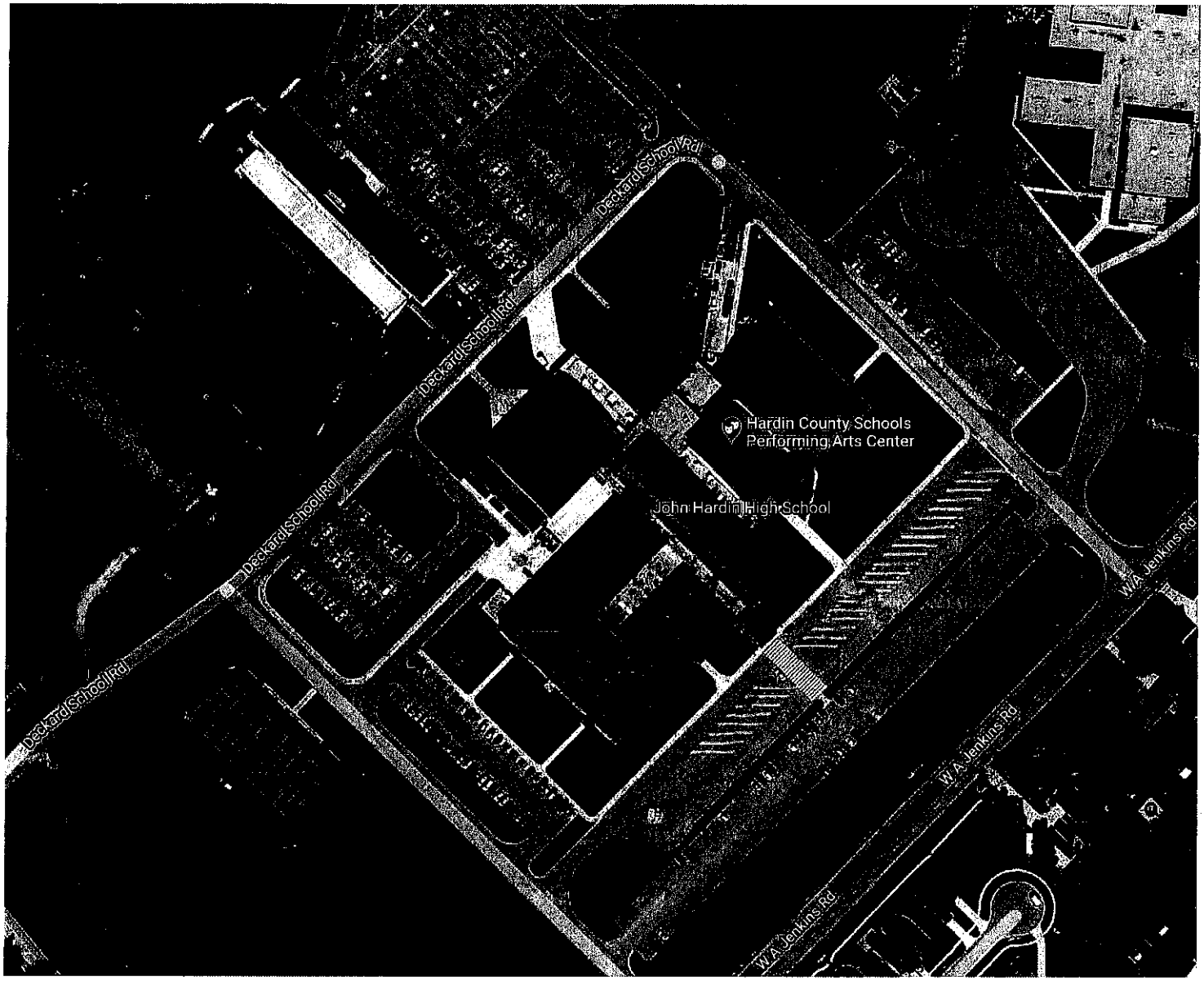
HARDIN COUNTY SCHOOL DISTRICT

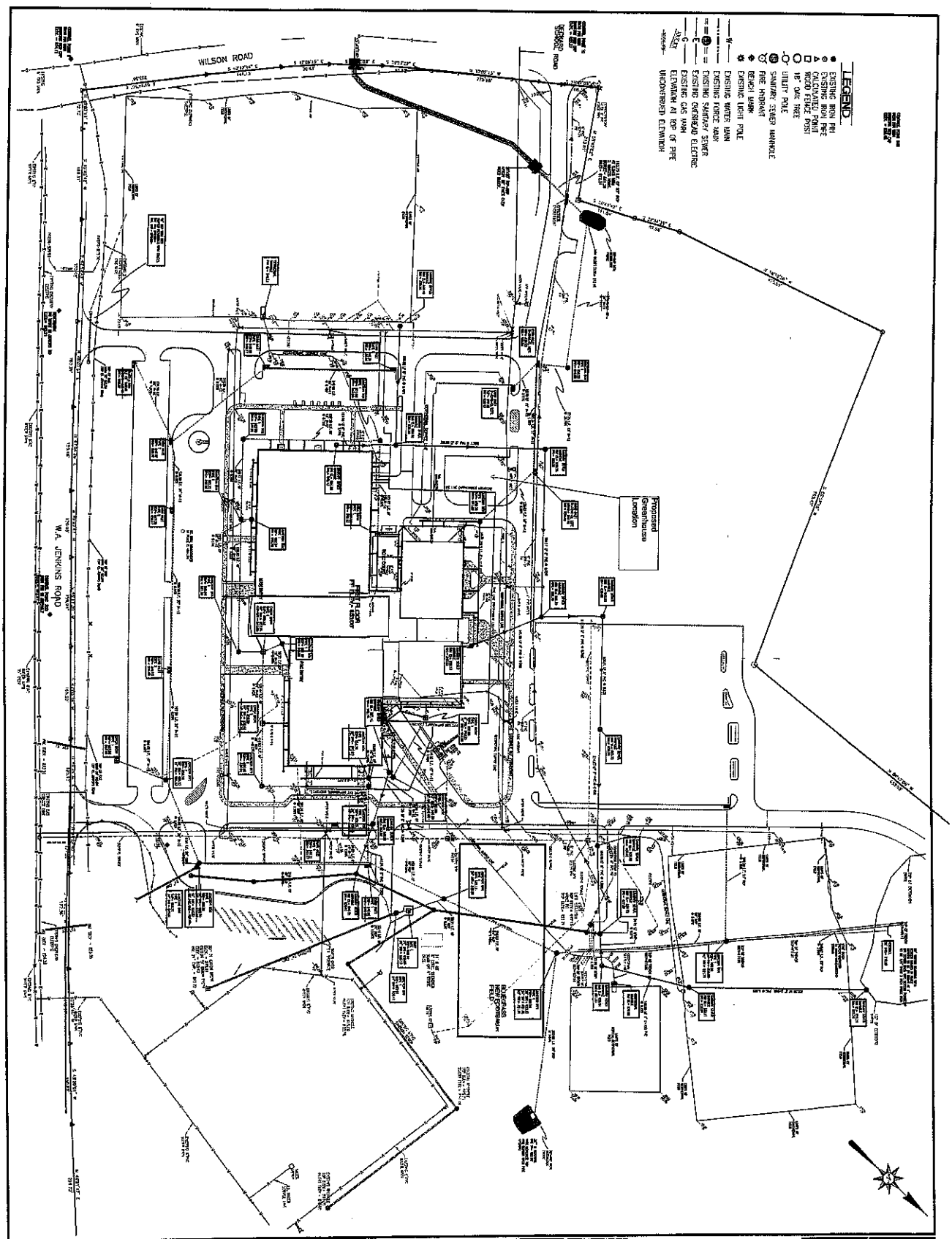
STATEMENT OF NET POSITION

June 30, 2020

Assets	Governmental Activities	Business-Type Activities	Total
Current Assets			
Cash, cash equivalents and investments	$ 57,745,621	$ 1,043,876	$ 58,789,497
Inventory		351,434	351,434
Receivables:			
Taxes-current	341,482		341,482
Taxes-delinquent	124,260		124,260
Other receivables	169,239	4,036	173,275
Intergovernmental-State	205,815		205,815
Intergovernmental-Indirect Federal	2,344,189	444,954	2,789,143
Intergovernmental-Direct Federal	18,431		18,431
Total Current Assets	60,949,037	1,844,300	62,793,337
Noncurrent Assets			
Non-depreciable capital assets	51,608,612	16,790	51,625,402
Depreciable capital assets, net of accumulated depreciation	194,030,961	911,586	194,942,547
Total Noncurrent Assets	245,639,573	928,376	246,567,949
Total Assets	306,588,610	2,772,676	309,361,286
Deferred Outflows of Resources			
Deferred amount on debt refundings	3,015,179		3,015,179
CERS Pension	11,038,402	2,531,702	13,570,104
CERS OPEB	4,458,712	1,022,625	5,481,337
TRS MIF OPEB	4,063,985		4,063,985
Total Deferred Outflows of Resources	22,576,278	3,554,327	26,130,605
Liabilities			
Current Liabilities			
Accounts payable	4,682,422	26,914	4,709,336
Accrued liabilities	196,185		196,185
Unearned revenue	266,370		266,370
Bond obligations	8,430,000		8,430,000
Compensated absences	344,881		344,881
Interest payable	1,648,480		1,648,480
Total Current Liabilities	15,568,338	26,914	15,595,252
Noncurrent Liabilities			
Bond obligations	162,927,905		162,927,905
Net pension liability - CERS	46,216,279	10,599,892	56,816,171
Net OPEB liability - CERS	11,051,872	2,534,792	13,586,664
Net OPEB liability - TRS MIF	31,196,000		31,196,000
Compensated absences	3,103,931		3,103,931
Total Noncurrent Liabilities	254,495,987	13,134,684	267,630,671
Total Liabilities	270,064,325	13,161,598	283,225,923
Deferred Inflows of Resources			
CERS Pension	1,944,385	445,953	2,390,338
CERS OPEB	4,033,225	925,036	4,958,261
TRS MIF OPEB	8,302,000		8,302,000
Total Deferred Inflows of Resources	14,279,610	1,370,989	15,650,599
Net Position			
Net investment in capital assets	77,296,847	928,376	78,225,223
Restricted	29,421,376		29,421,376
Unrestricted	(61,897,270)	(9,133,960)	(71,031,230)
Total Net Position	$ 44,820,953	$ (8,205,584)	$ 36,615,369

The notes to the financial statements are an integral part of this statement.


Deckard School Rd
Hardin County Schools
Performing Arts Center
John Hardin High School
W A Jenkins Rd



1 OF	AS-BUILT DRAWING SCALE 1"=60'	PROJECT NO. : 1627-171	REVISION DATE	ENGINEER: HAWKINS ENGINEERING 1104 JULIANA COURT ELIZABETHTOWN, KY 42701 (270) 765-4720
	JOHN HARDIN HIGH SCHOOL HARDIN COUNTY BOARD OF EDUCATION 65 W.A. JENKINS ELIZABETHTOWN, KY 42701	DATE: 06/28/06		
		DRAWN BY: RJW		
		CHECKED BY: DPH		
		CAD FILE: AS-BUILT		