

INVITATION TO BID

BID CONTROL NUMBER ITB 230009



JACKSON COUNTY AGRICULTURAL FACILITY – LIGHTING UPGRADE

Jackson County Board of Commissioners

Publish Date: June 14, 2023

**Bid Opening Date & Time: July 19, 2023 at 10:00 am, local time pertaining
Questions Deadline Date & Time: July 5, 2023 at 5:00 pm**

**Jackson County Board of Commissioners
67 Athens Street
Jefferson, GA 30549**

Table of Contents

Bid Control Number ITB 230009

- 1. Invitation to Bid**
- 2. Instructions /General Terms and Conditions**
- 3. Bid Schedule/Response Form**
- 4. Attachments**

DATE: June 14, 2023

TO: General Contractors

SUBJECT: Request for Bid to upgrade lighting and associated electrical fixtures at Jackson County Agricultural Facility.

INQUIRIES REGARDING REQUEST FOR BID SHOULD BE MADE TO KENNETH MORRIS, PURCHASING MANAGER, 706-367-4174

Jackson County Board of Commissioners (hereafter referred to as Jackson County) is requesting bids to upgrade lighting and associated electrical fixtures at Jackson County Agricultural Facility.

Each bidder must deposit with his bid a Bid Bond for 5% of the total bid. Performance and Payment Bonds in the amount for 100% of the contract price will be required if the contract is awarded.

One (1) original and three (3) copies of the Request for Bid must be submitted. Bids must be sealed, marked with the bidder's name and address and Labeled: **ITB 230009, "Upgrade Lighting and associated electrical fixtures at Jackson County Agricultural Facility"**

Jackson County Board of Commissioners
Attention: Kenneth Morris, Purchasing Manager
67 Athens Street
Jefferson, Georgia 30549

No later than July 19, 2023 at 10:00 AM EST.

A qualified interpreter for the hearing impaired is available upon request at least 10 (ten) days in advance of the bid opening date. Please call (706) 367-6312 for more information. This service is in compliance with the American with Disabilities Act (ADA).

Jackson County reserves the right to reject any and all bid submittals, to waive any technicalities or irregularities and to award the bid based on the highest and best interest of Jackson County.

Jackson County

GENERAL INSTRUCTIONS FOR BIDDERS

I. PURPOSE:

The intent and purpose of this Bid Request is to request services for the Jackson County Board of Commissioner, hereinafter referred to as Jackson County to furnish generator at the Jackson County Correctional Institute.

II. SCOPE OF SERVICE:

A. WORK INCLUDED:

See attached specification/drawings

B. QUALITY OF WORKMANSHIP: All work shall be quality work performed according to the standards of the industry, and to the complete satisfaction of Jackson County.

C. PERSONNEL QUALIFICATIONS:

Jackson County reserves the right to refuse to accept services from any personnel deemed by Jackson County to be unqualified, disorderly, or otherwise unable to perform assigned work.

D. DETAILED SPECIFICATIONS: See attached. This project will be under the supervision of the engineer who will be inspecting all work completed under this contract.

1. Upon being awarded the contract by Jackson County, the approved contractor will execute a contract with Jackson County to provide services. The contractor agrees to perform all work in accordance with the bid schedule and set bid prices as outlined in their signed proposal. The prices submitted in the bid proposal will be valid until the completion of all projects originally listed in the bid proposal.
2. The approved contractor agrees to commence work within thirty (30) days of receiving the Notice to Proceed and will complete all the original work as outlined in this Bid Request within the time specified. Any additional work will be discussed and a reasonable start and completion date will be negotiated.
3. Jackson County will only pay invoices that have been reviewed and approved by the engineer for the quantities submitted for payment.

- E. MATERIAL SPECIFICATIONS: All material used in the performance of this contract must meet state and local requirements for use by an approved vendor. The contractor will be responsible for verifying this information with the engineer.
- F. SCHEDULING AND COORDINATION: It is the responsibility of the contractor to coordinate all work schedules and inspections with the Jackson County Facilities Maintenance Director. Failure to do so may result in the delay of processing invoices for payment.
- G. **OTHER REQUIREMENTS: A Bid Bond for 5% of the base bid on the bid form must be submitted with the bid. Performance and Payment Bonds in the amount of 100% of the contract price will be required if the contract is awarded.**

III. MANDATORY PRE-BID CONFERENCE: There will be a mandatory pre-bid conference held on June 27, 2023 at 10:00 am sharp. Bidders who do not attend will not be considered for the job award. Questions concerning this bid package or the bid process should be directed to Kenneth Morris at kmorris@jacksoncountygov.com. Technical questions concerning the work being requested in this BID REQUEST should be submitted to bvickery@jacksoncountygov.com and mitch@eng-group.com. All questions should be submitted in writing no later than 5:00 pm on July 5, 2023 so that an appropriate addendum can be created and sent to all vendors prior to the closing of the bid on July 19, 2023.

IV. GENERAL TERMS AND CONDITIONS:

- A. PURCHASING ORDINANCE: This Invitation to Bid (ITB) is subject to the provisions of the Jackson County Purchasing Ordinance and any revisions thereto, which are hereby incorporated into this contract in their entirety except as amended or superseded herein.
- B. MANDATORY USE OF JACKSON COUNTY FORM AND TERMS AND CONDITIONS: Failure to submit a bid on the official Jackson County form provided for that purpose shall be a cause for rejection of the bid. Return of the complete document is required. Modification of or additions to any portion of the invitation may be cause for rejection of the bid; however, Jackson County reserves the right to decide, on a case by case basis, in its sole discretion, whether or not to reject such a bid as non-responsive.
- C. PRECEDENCE OF TERMS: Except for paragraphs A, B, C, J, K and N of the General Terms and Conditions, which shall apply in all instances, in the event there is a conflict between the General Terms and Conditions and any Special Terms and Conditions for use in a particular procurement, the Special Terms and Conditions shall prevail.
- D. CLARIFICATION OF TERMS: If any prospective bidder has questions about the specifications or other bid documents, the prospective bidder should contact the Purchasing Manager whose name appears on the title page of the invitation, no later

than seven days before the opening date. Any revisions to the invitation will be made only by addendum issued by the Purchasing Manager.

- E. TESTING/INSPECTION: Jackson County reserves the right to conduct any test or inspection it may deem advisable to assure materials and services conform to the specification.
- F. PAYMENT TERMS: Any payment terms requiring payment in less than 30 days will be regarded as requiring payment 30 days after invoice or delivery, whichever occurs last. This shall not affect offers of discounts for payment in less than 30 days, however.
- G. INVOICES: Invoices for services ordered, delivered and accepted by Jackson County shall be submitted by the contractor direct to the payment address shown on the contract.
- H. DEFAULT: In case of failure to deliver goods or services in accordance with the contract terms and conditions, Jackson County, after due oral or written notice, may procure substitute goods or services from other sources and hold the contractor responsible for any resulting additional purchasing and administrative costs. This remedy shall be in addition to any other remedies, which Jackson County may have.
- I. ASSIGNMENT OF CONTRACT: A contract shall not be assignable by the contractor in whole or in part without the written consent of Jackson County.
- J. ETHICS IN PUBLIC CONTRACTING: By submitting their bids, all bidders certify that their bids are made without collusion or fraud and that they have not offered or received any kickbacks or inducements from any other bidder, supplier, manufacturer or subcontractor in connection with their bid, and that they have not conferred on any public employee having official responsibility for this procurement transaction any payment, loan, subscription, advance, deposit or money, services or anything of more than nominal value, present or promised, unless consideration of substantially equal or greater value was exchanged.
- K. DEBARMENT STATUS: By submitting their bids, all bidders certify that they are not currently debarred from bidding on contracts by any agency of the State of Georgia, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency of the State of Georgia.
- L. NON-COLLUSION CERTIFICATION: Bidder declares that the bid is not made in connection with any other bidder submitting a bid for the same project, and that the bid is bona fide and is in all respects fair and without collusion or fraud.
- M. APPLICABLE LAW AND COURTS: Any contract resulting from this BID REQUEST shall be governed in all respects by the laws of the State of Georgia and any litigation with respect thereto shall be brought in the courts of the State of Georgia.

The contractor shall comply with applicable federal, state and local laws and regulations.

- N. QUALIFICATION OF BIDDERS: Jackson County may make such reasonable investigations as deemed proper and necessary to determine the ability of the bidder to perform the work/furnish the items and the bidder shall furnish to Jackson County all such information and data for this purpose as may be requested. Jackson County reserves the right to inspect bidder's physical plant prior to award to satisfy questions regarding the bidder's capabilities. Jackson County further reserves the right to reject any bid if the evidence submitted by, or investigations of, such bidder fails to satisfy Jackson County that such bidder is properly qualified to carry out the obligations of the contract and to complete the work/furnish the items contemplated therein.
- O. WITHDRAWAL OF BID DUE TO ERRORS:
1. The bidder shall give notice in writing of his claim of right to withdraw his bid without penalty due to an error within two (2) business days after the conclusion of the bid opening procedure. Bids may be withdrawn from consideration if the price was substantially lower than the other bids due solely to a mistake therein, provided the bid was submitted in good faith, and the mistake was a clerical mistake as opposed to a judgment mistake, and was actually due to an unintentional arithmetic error or an unintentional omission of a quantity of work, labor or material made directly in the compilation of the bid, which unintentional arithmetic error or unintentional omission can be clearly shown by objective evidence drawn from inspection of original work papers, documents and material used in the preparation of the bid sought to be withdrawn. The bidder's original work papers shall be the sole acceptable evidence of error and mistake if he elects to withdraw his bid. If a bid is withdrawn under the authority of this provision, the lowest remaining responsive bid shall be deemed low bid.
 2. No bidder who is permitted to withdraw a bid shall, for compensation, supply any material or labor or perform any subcontract or other work agreement for the person of firm to whom the contract is awarded or otherwise benefit, directly or indirectly, from the performance of the project for which the withdrawn bid was submitted.
 3. Supplier has up to forty-eight (48) hours to notify the Jackson County Purchasing Office of an obvious clerical error made in calculation of bid in order to withdraw a bid after bid opening. Withdrawal of bid for this reason must be done in writing within the forty-eight (48) hour period. Suppliers who fail to request withdrawal of bid by the required forty-eight (48) hours shall automatically forfeit bid bond (if one was required). Bid may not be withdrawn otherwise.
 4. Bid withdrawal is not automatically granted and will be allowed solely at Jackson County's discretion.

- P. LATE OFFERS: Jackson County will not be responsible for or consider late receipt of bids.
- Q. EO/AA STATEMENT: Jackson County, an Equal Opportunity Affirmative Action institution covered by Presidential Executive Order 11246 as amended, advises all contractors, subcontractors, vendors and suppliers that direct or indirect receipt of federal funds may require appropriate action on their part.
- R. ILLEGAL IMMIGRATION REFORM AND ENFORCEMENT ACT OF 2011
Vendors submitting a response to this RFP must complete the Contractor Affidavit under O.C.G.A. §13-10-91(b)(1) which is provided with the RFP package to verify compliance with the Illegal Immigration Reform and Enforcement Act of 2011.
- A. The form must be signed by an authorized officer of the contractor or their authorized agent.
 - B. The form must be notarized.
 - C. The contractor will be required to have all subcontractors and sub-subcontractors who are engaged to complete physical performance of services under the final contract executed between the County and the contractor complete the appropriate subcontractor and sub-subcontractor affidavits and return them to the County a minimum of five (5) days prior to any work being accomplished by said subcontractor or sub-subcontractor. Format for this affidavit can be provided to the contractor if necessary.

V. **SPECIAL TERMS AND CONDITIONS:**

- A. AVAILABILITY OF FUNDS: It is understood and agreed between the parties herein that Jackson County shall be bound hereunder only to the extent of the funds available or which may hereafter become available for the purpose of this agreement.
- B. AWARD OF CONTRACT: Jackson County will make award to the lowest responsive and responsible bidders. Due consideration will be given to price, quality as judged by tests and previous experience, and the ability of the bidders to render required services. Jackson County reserves the right to conduct any test it may deem advisable and to make all evaluations. Jackson County also reserves the right to reject any or all bids, in whole or in part, to waive informalities and to delete items prior to making the award, whenever it is deemed in the sole opinion of Jackson County to be in its best interest.
- C. BID ACCEPTANCE PERIOD: This bid shall be binding upon the bidder for 60 calendar days following the bid opening date. Any bid on which the bidder shortens the acceptance period may be rejected.

- D. BID PRICES: Bid prices submitted by the Contractor must remain firm for the entire length of the initial bid period and/or until the original list of projects as outlined in the specifications are completed.
- E. CANCELLATION OF CONTRACT: Jackson County reserves the right to cancel and terminate any resulting contract, in part or in whole, without penalty, upon 60 days written notice to the contractor. Any contract cancellation notice shall not relieve the contractor of the obligation to deliver and/or perform on all outstanding orders issued prior to the effective date of cancellation.
- F. CHANGES: By written notice to the contractor, Jackson County may from time to time make changes, within the general scope of the contract, in the goods or services to be provided by the contractor.
- G. CONTRACT DOCUMENTS: The contract entered into by the parties shall consist of this Invitation To Bid, the signed bid submitted by the contractor, the Jackson County Contract Form, General Terms and Conditions, Special Terms and Conditions, Specifications and Attachments, including all modifications thereof, all of which shall be referred to collectively as the Contract Documents.
- H. CONTRACT PERIOD: The contract period is defined above in paragraph II.D.1.
- I. IDENTIFICATION OF BID ENVELOPE: The signed bid should be returned in a separate envelope or package, sealed and identified as follows:

From:

_____	_____	_____
Name of Bidder	Bid Due Date	Time
_____	_____	
Street or Box Number	Bid Number	
_____	_____	
City, State, Zip Code	Bid Title	

The envelope should be addressed to Jackson County Board of Commissioners, Attention: Kenneth Morris, Purchasing Manager, 67 Athens Street, Jefferson, GA, 30549.

If a bid not contained in the special envelope is mailed, the bidder takes the risk that the envelope even if marked as described above, may be inadvertently opened and the

information compromised which may cause the bid to be disqualified. Bids may be hand delivered to the office of the Purchasing Department issuing the invitation at the location given above. No other correspondence or other bids should be placed in the envelope.

- J. INDEMNIFICATION: The contractor agrees to indemnify, defend and hold harmless Jackson County and their officers, agents, and employees from any claims, damages and actions of any kind or nature whether at law or in equity, arising from or caused by the use of any materials, goods, or equipment of any kind or nature furnished by the contractor/any services of any kind or nature provided by the contractor.
- K. INDEPENDENT CONTRACTOR: The contractor shall not be an employee of Jackson County, but shall be an independent contractor. Nothing in this agreement shall be construed as authority for the contractor to make commitments, which shall bind Jackson County, or to otherwise act on behalf of Jackson County, except as Jackson County may expressly authorize in writing.
- L. INSPECTION OF WORK SITE: Contractors desiring to submit a proposal for this BID REQUEST are encouraged to visit the sites listed. Claims, as a result of failure to do so, will not be considered by Jackson County.
- M. INSURANCE:
1. The contractor shall provide Jackson County a Certificate of Insurance prior to the start of any work and agrees to maintain such insurance until the completion of the contract. The minimum limits of liability shall be:
 - A. Workers' Compensation - In compliance with Georgia State Law
 - B. Broad Form Comprehensive General Liability, \$1,000,000.00, to include:
 1. Premises – Operations
 2. Products / Completed Operations
 3. Contractual
 4. Personal Injury
 5. Owners and Contractors Protective
 2. Jackson County reserves the right to require higher limits on any contract provided notice of such requirements is stated in the proposal for such contract. Included in the certificate of insurance shall be a hold harmless agreement saving Jackson County harmless from any liability from the contractor or from any subcontractors or by anyone directly or indirectly employed by either. Jackson County is to be named as additional insured.
- A 30-day notice of cancellation or non-renewal in writing shall be furnished by certified mail to the certificate holder at the address indicated on the face of this

form. Also, when deemed necessary, the contractor will provide explosion, collapse and underground coverage (X, C and U coverage).

The contractor agrees to be responsible for, indemnify and save harmless Jackson County and their representatives from the payment of all sums of money by reason of any claim against Jackson County or their representatives under the Workmen's Compensation Act, and by reason of all or any other occurrences resulting in bodily injury or property damage that may happen to occur upon or about said work. The contractor agrees that it will, at all times, and at least for one year after the completion of the work, indemnify and save harmless Jackson County against liabilities resulting from bodily injury or property damage directly or indirectly arising out of the performance or nonperformance of the contract.

3. ALL BIDDERS PROVIDE THE FOLLOWING INFORMATION:

NAME OF INSURANCE CARRIER:

NAME OF INSURANCE AGENT:

TELEPHONE NUMBER:

BROAD FORM COMPREHENSIVE

GENERAL LIABILITY LIMIT: \$

AUTOMOBILE LIABILITY LIMIT: \$

POLICY EXPIRATION DATE:

If a bidder fails to provide all the above information or does not indicate an amount of coverage, the bidder's signature on this invitation constitutes certification that, if the bidder is awarded the contract, the bidder shall obtain the necessary coverage as specified within ten days of notification of award of the contract.

If at any time or times any claim or claims shall be made to Jackson County by a subcontractor or other persons for any money due for any work, labor or material done upon or supplied upon the work herein contracted for, done for, furnished, or supplied, to the party of the first part, Jackson County may retain such amount as may be due, or may thereafter become due under this contract, or may pay the same when said claim shall thereafter be finally established in court, and such amount is hereby assigned to Jackson County to pay such claim or claims, such payment to be done when so established, but the contractor shall not be entitled to demand or receive payment of this agreement until all disputes, disagreements, and questions between the parties herein affecting the right to any portion of the amount claimed, shall have been settled as above provided for, and Jackson County is hereby authorized to deduct from the said amount any money due it upon any account or claim.

N. PROTECTION OF PERSONS AND PROPERTY:

1. The contractor shall take every precaution at all times for the protection of persons and property, including Jackson County's employees and property and its own.
2. The contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work under this contract.
3. The contractor shall continuously maintain adequate protection of all work from damage and shall protect Jackson County property from injury or loss arising in connection with this contract. The contractor shall make good any such damage, injury or loss.

O. **SAFETY:** The contractor shall maintain an adequate safety program to insure the safety of contractor employees, subcontractor employees, and all other individuals working under this contract. In addition, the contractor must also provide Jackson County with a written safety program that he intends to follow in pursuing work under this contract. No work under this contract will be permitted until Jackson County is assured that the contractor has an adequate safety program in effect.

P. **SUBCONTRACTS:** No portion of the work shall be subcontracted without prior written consent of Jackson County. In the event that the contractor desires to subcontract some part of the work specified herein, the contractor shall furnish Jackson County the names, qualifications and experience of their proposed subcontractors. The contractor will, however, remain fully liable and responsible for the work to be done by his subcontractor(s) and shall assure compliance with all requirements of the contract.

Nothing in the agreement shall be constructed as authority for the contractor to make commitments, which shall bind Jackson County, or to otherwise act on behalf of Jackson County, except as Jackson County may expressly authorize in writing.

Q. **SUPERINTENDENCE BY CONTRACTOR:** The contractor shall be responsible for all work means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract except where otherwise specified herein. The contractor shall, at all times, enforce strict discipline and good order among the workers, and shall not employ any unfit person or anyone not skilled in their work.

R. **WORK SITE DAMAGES:** Any damage, including damage to finished surfaces, resulting from the performance of this contract shall be repaired to Jackson County's satisfaction at the contractor's expense.

S. **OTHER SPECIAL INSTRUCTIONS/TERMS:** See Section II G – Other requirements concerning bid and bid award.

VI. **METHOD OF PAYMENT:** Jackson County will authorize payment to the contractor after providing satisfactory service and receipt of the contractor's invoice for services rendered. Payment will be made on a monthly basis at the prices as bid, Net 30.

BID DOCUMENT

Base bid = \$ _____

Completion time – _____

UPS Alternates: (amount to be deducted or added to bid amount. Indicate add or deduct with a plus or minus).

\$ _____

ATS Alternates: (amount to be deducted or added to bid amount. Indicate add or deduct with a plus or minus).

\$ _____

GENERATOR Alternates: (amount to be deducted or added to bid amount. Indicate add or deduct with a plus or minus).

\$ _____

Signed: _____

Title: _____

Company Name: _____

Address: _____

City, State, Zip: _____

Phone number: _____

Email: _____

Contractor must acknowledge receipt of any addenda on either this form or by signing and returning a copy of the addenda with their bid package.

Illegal Immigration Reform and Enforcement Act of 2011
CONTRACTOR AFFIDAVIT UNDER O.C.G.A. §13-10-91(b)(1)

The Jackson County Board of Commissioners and Contractor agree that compliance with the Illegal Immigration Reform and Enforcement Act of 2011 are conditions of this Agreement for the physical performance of services.

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. §13-10-91, stating affirmatively that the individual, firm, or corporation which is engaged in the physical performance of services on behalf of the Jackson County Board of Commissioners has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. §13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present and affidavit to the contractor with the information required by O.C.G.A. §13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

E-Verify Employment Eligibility Verification User Identification Number

Date of Authorization to Use Federal Work Authorization Program

NAME OF CONTRACTOR

Name of Project

Jackson County Board of Commissioners
Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, _____, 20__ in _____ (City), _____ (State).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME ON THIS THE ____ DAY OF _____, 20____

Notary Public

My Commission Expires: _____

This form must be returned with the bid package submitted.

The following pages include a sample contract that will become finalized based on selection by Jackson County Board of Commissioners. Please execute as part of your bid package submission.

All Work performed under this contract is subject to inspection by the engineer and Facilities Maintenance department of Jackson County, Georgia. It shall be the Contractor's responsibility to coordinate with the above for inspection services. All Work shall be performed in accordance with current state and local laws and regulations for the State of Georgia.

ARTICLE 3

Time of Commencement and Completion

The Work to be performed under this Contract shall begin within thirty (30) days after the Contractor has received the Notice to Proceed (NTP) and will be completed within xxx days of starting the project.

ARTICLE 4

Contract Price

The Owner shall pay the Contractor, for the performance of the Work completed and approved by the engineer as provided in the Conditions of the Contract, in current funds, as calculated by the unit prices provided in the Contractor's response to the ITB. This price shall remain fixed during the entire length of the original contract period or until the satisfactory completion of all of the projects listed in the ITB. The Scope of Service as outlined ITB shall only be modified by a Change Order approved by all Parties. Each Change Order that is approved by Owner and Contractor will detail any unit price changes that are calculated according to the conditions outlined in the ITB.

ARTICLE 5

Payment

Payment for the Work as described in Article 4 above, shall be made monthly only for the portion of Work that is completed and inspected by the engineer and the Facilities Maintenance department during the month. Payment will be made within thirty (30) days after the completion of the Work, provided that the Contractor fully performed in accordance with the Contract Documents. The Contractor shall complete and submit an invoice for the monthly payment to the Jackson County Government, Attention: Accounts Payable, 67 Athens Street, Jefferson, Georgia 30549. Jackson County reserves the right to request proof of performance of all work completed under this contract.

ARTICLE 6

Georgia Illegal Immigration Reform and Enforcement Act of 2011

Contractor agrees and acknowledges that compliance with the requirements of the Georgia Illegal Immigration Reform and Enforcement Act of 2011 are conditions of this Contract. The Contractor Affidavit and Agreement executed by Contractor pursuant to O.C.G.A. §13-10-91(b)(1) is hereby incorporated into this Agreement by reference and made a part of this Contract. By the execution of this Contract, the Contractor affirms that the Illegal Immigration Reform and Enforcement Act of 2011 Contractor Affidavit submitted with the response to ITB 230008 is still valid, that the Contractor's Federal Work Authorization Number has not changed, that the Contractor will utilize the Federal Work Authorization Program during the duration of this contact, that the Contractor will ensure that all subcontractors and sub-subcontractors working on the Project covered by this Contract are participating in the Federal Work Authorization Program and have completed the Subcontractors and/or Sub-subcontractor Affidavit, and that the Contractor will advise the Owner of hiring a new subcontractor and/or sub-subcontractor and will provide the Owner with a Subcontractor/Sub-subcontractor Affidavit attesting to the subcontractor's/sub-subcontractor's name, address, user identification number, and date of authorization to use the Federal Work Authorization Program within five (5) days of hiring before the subcontractor/sub-subcontractor begins working on the Project. The Contractor understands and will ensure that all subcontractors and sub-subcontractors understand that knowingly and willfully making a false, fictitious, or fraudulent statement in an affidavit submitted in compliance with O.C.G.A. §13-10-91 shall be guilty of a violation of Code Section §16-10-20 and, upon conviction, shall be punished as provided for in such Code Section. Additionally, any contractor and/or sub-contractor convicted for false statements based upon a violation of this Code Section shall be prohibited from bidding on or entering into any public contract for twelve (12) months following the conviction

IN WITNESS WHEREOF, the Parties have executed this Contract on the date first written above.

OWNER:
Jackson County Board of Commissioners

CONTRACTOR:

Company's Legal Name

Tom Crow, Chairman

Representative

ATTEST:

Notary Public

ATTEST:

Notary Public

DRAWING LIST

- T-0.0 TITLE SHEET
- E-0.1 SYMBOLS LEGEND AND NOTES
- E-0.2 SPECIFICATION
- E-1.1 ONE LINE DIAGRAM, SCHEDULE AND DETAILS
- E-1.2 LIGHTING CONTROLS
- E-2.1 FLOOR PLAN - LIGHTING - DEMO
- E-2.2 FLOOR PLAN - LIGHTING - NEW
- E-2.3 FLOOR PLAN - LIGHTING CALCULATIONS

JACKSON COUNTY AGRICULTURAL FACILITY LIGHTING UPGRADE

**1869 COUNTY FARM RD
JEFFERSON, GA 30549**

MAY 26, 2023
PROJECT NO. 23103

APPLICABLE CODES

INTERNATIONAL BUILDING CODE 2018 EDITION
 NATIONAL ELECTRICAL CODE 2020 EDITION
 NFPA 101 LIFE SAFETY CODE 2018 EDITION
 ALL THE ABOVE CODES SHALL COMPLY WITH STATE OF GEORGIA AND JACKSON COUNTY SUPPLEMENTS

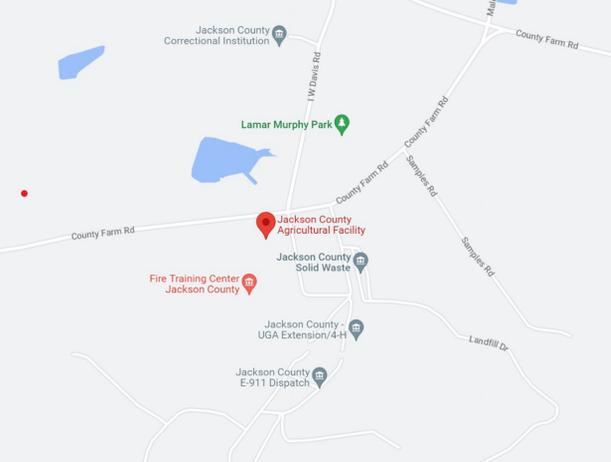
SCOPE OF PROJECT:

JACKSON COUNTY AGRICULTURAL FACILITY INTENDS TO UPGRADING EXISTING LIGHTING IN THE SHOW AREA AND MULTIPURPOSE ROOM.

PROJECT TEAM

PROJECT MANAGER
 JACKSON COUNTY
 CONTACT: BARRY VICKERY
 67 ATHENS STREET
 JEFFERSON, GA 30549
 TEL - (706)387-6475
 EMAIL - bvickery@jacksoncountygov.com

ENGINEER
 ENG GROUP, INC.
 CONTACT: MITCH MAGHIARI
 3100 FIVE FORKS TRICKUM RD
 STE 601
 LILBURN, GA 30047
 TEL - (770)573-537
 EMAIL - mitch@eng-group.com



VICINITY MAP
N.T.S



SATELLITE MAP
N.T.S

**ISSUED FOR BID
05/26/2023**

NOT FOR CONSTRUCTION

2	ISSUED FOR BID	MM	AM/AM	05/26/23
1	REVISED PER OWNER COMMENTS	MM	AM/AM	05/23/23
0	ISSUED FOR REVIEW	MM	AM/AM	05/06/23
0	ISSUED FOR REVIEW	MM	AM/AM	05/06/23
REV. NO.	REVISION DESCRIPTION	APP'VD.	DRN/CDG	DATE
ENG Group, Inc. 3100 FIVE FORKS TRICKUM RD, STE 601 LILBURN, GA 30047 TEL (770) 573-5337 FAX (666) 531-2419 EMAIL: mitch@eng-group.com				NAME JACKSON COUNTY AGRICULTURAL FACILITY 1869 COUNTY FARM RD. JEFFERSON, GA 30549
DRAWN AM	CHECKED MM	APP'VD. MM	SHEET 1	DRAWING TITLE TITLE SHEET
DATE 05/26/23	SCALE AS NOTED	ENG GROUP PROJECT NO. 23103	DRAWING NO. T-00	REV. 0

SYMBOLS LEGEND

LIGHTING SYMBOLS

	FLUORESCENT LUMINAIRE, TYPE AS NOTED
	FLUORESCENT LUMINAIRE CONNECTED TO UNSWITCHED EMERGENCY GENERATOR CKT, TYPE AS NOTED
	FLUORESCENT LUMINAIRE, TYPE AS NOTED
	FLUORESCENT LUMINAIRE, TYPE AS NOTED
	FLUORESCENT LUMINAIRE CONNECTED TO UNSWITCHED EMERGENCY GENERATOR CKT, TYPE AS NOTED
	WALL MOUNTED LUMINAIRE, TYPE AS NOTED
	DOWNLIGHT, DECORATIVE, SITE OR MISC. LUMINAIRE, TYPE AS NOTED
	WALLWASH, ACCENT, OR DIRECTIONAL LUMINAIRE, TYPE AS NOTED
	EMERGENCY BATTERY LUMINAIRE, TYPE AS NOTED
	WALL/CEILING MOUNTED EXIT LUMINAIRE-BAR INDICATES FACE ORIENTATION-PROVIDE ARROWS AS SHOWN, TYPE AS NOTED
	STEEPLIGHT LUMINAIRE, TYPE AS NOTED
	ADJUSTABLE DIRECTIONAL LUMINAIRE-ARROW INDICATES DIRECTION, TYPE AS NOTED
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	KEY OPERATED SWITCH
	TIME SWITCH
	MOMENTARY CONTACT SWITCH

WIRING SYMBOLS

	EXISTING RACEWAY TO REMAIN
	DENOTES EXISTING EQUIPMENT OR WIRING TO BE REMOVED
	DENOTES EXISTING EQUIPMENT OR WIRING TO BE REMOVED
	DENOTES EXISTING EQUIPMENT OR WIRING TO BE REMOVED
	RACEWAY CONCEALED IN WALL OR ABOVE CEILING
	RACEWAY EXPOSED
	HEAVY LINE DENOTES NEW EQUIPMENT OR NEW WIRING
	LITE LINE DENOTES EXISTING EQUIPMENT OR EXISTING WIRING
	RACEWAY CONCEALED IN FLOOR SLAB, BELOW SLAB OR GRADE, OR UNDER RAISED ACCESS FLOOR

POWER SYMBOLS

	WALL/CEILING MOUNTED JUNCTION BOX
	POWER AND VOICE/DATA CONNECTION. SEE DETAIL
	CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING
	EXISTING SURFACE MOUNTED PANELBOARD
	EXISTING FLUSH MOUNTED PANELBOARD
	EQUIPMENT AS NOTED
	TRANSFORMER-TYPE AND CAPACITY AS NOTED
	DISCONNECT SWITCH-TYPE AS NOTED. 30/3/F/WP INDICATES 30AMP, 3-POLE, F=FUSED/NF=NON-FUSED, WEATHERPROOF
	COMBINATION STARTER-TYPE AS NOTED.
	MOTOR
	PLYWOOD EQUIPMENT BACKBOARD
	SURFACE RACEWAY
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE CEILING MOUNTED
	DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP EXCEPT AS NOTED
	SPLIT WIRED DUPLEX RECEPTACLE. EACH RECEPTACLE SHALL BE WIRED SEPARATELY.
	DOUBLE DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP EXCEPT AS NOTED
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP EXCEPT AS NOTED
	GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX RECEPTACLE
	TYPICAL DEMO OUTLET, REMOVE ASSOCIATED WIRING.
	TYPICAL DEMO J-BOX, REMOVE ASSOCIATED WIRING.
	MOTOR RATED SWITCH
	TELEPOWER POLE

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
ex	EXISTING TO REMAIN
exr	EXISTING RELOCATED TO LOCATION ON PLAN
WP	DENOTES WEATHERPROOF DEVICE
IG	ISOLATED GROUND
MSGB	MASTER STATION GROUND BUS
A.T.S.	AUTOMATIC TRANSFER SWITCH
M.T.S.	MANUAL TRANSFER SWITCH
S.T.S	STATIC TRANSFER SWITCH
GFCI	GROUND FAULT CIRCUIT INTERRUPTERS
42"	INDICATES MOUNTING HEIGHT AFF IN INCHES TO CENTERLINE EXCEPT AS NOTED

MISCELLANEOUS SYMBOLS

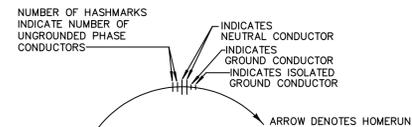
	NOTE REFERENCE SYMBOL
	RELAY

COMMUNICATIONS SYMBOLS

	DATA OUTLET
	COMBINATION VOICE/DATA OUTLET
	DATA CEILING OUTLET
	TYPICAL DEMO OUTLET, REMOVE ASSOCIATED WIRING.

DEMOLITION NOTES:

- THE DRAWINGS SHOW THE GENERAL EXTENT OF THE DEMOLITION REQUIRED. THE DRAWINGS DO NOT NECESSARILY SHOW EVERYTHING TO BE REMOVED IN PREPARATION FOR NEW CONSTRUCTION.
- CONTRACTOR TO VERIFY EXACT CONDITIONS AND EXTENT OF EXISTING CONSTRUCTION TO BE REMOVED DURING SITE INSPECTION.
- ALL DEMOLITION/CONSTRUCTION IS TO BE DONE IN AN ORDERLY MANNER.
- DURING THE PROCESS OF DEMOLITION, CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXITS AND RATED CORRIDORS AS REQUIRED BY CODE FOR EMERGENCY EXITING.
- ALL MEASURES NECESSARY TO ASSURE SAFE DEMOLITION OF THE AREAS INDICATED ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR INFORMING THE OWNER/ARCHITECT OF ANY HAZARDOUS MATERIAL ENCOUNTERED DURING DEMOLITION AND/OR CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT THE EXISTING TO REMAIN OWNER'S PROPERTY.
- CONTRACTOR SHALL REPAIR ALL DAMAGE DUE TO DEMOLITION/CONSTRUCTION WORK.
- CONTRACTOR SHALL TAKE MEASURES TO PROTECT EXISTING FIXTURES/EQUIPMENT TO BE RELOCATED.
- COORDINATE WITH OTHER TRADES AND DISCONNECT MOTORS, HEATERS, OR OTHER EQUIPMENT AS REQUIRED FOR THE DEMOLITION OF OTHER TRADES WORK. CUT OFF ALL IN FLOOR CONDUITS, GRIND SMOOTH WITH FLOOR AND PREPARE FOR PATCHING BY OTHERS. REMOVE CONDUCTORS AND DEVICES FROM WALL AND CEILING OUTLETS AND PREPARE OUTLET FOR PATCHING BY OTHERS. CONTRACTOR SHALL DENOTE ALL DEMOLISHED CIRCUITS ON EXISTING PANEL DIRECTORIES AND NOTE ALL SPARE BREAKERS.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY AND CONTINUITY OF ALL EXISTING FEEDERS AND BRANCH CIRCUITS FEEDING AREAS OF THE BUILDING THAT ARE NOT IN THIS SCOPE OF WORK AS DEFINED BY THE DRAWINGS.
- REMOVE & REWORK LIGHTING AS INDICATED ON NEW LAYOUT.



- NOTES:
- NO HASHMARKS INDICATE (1) PHASE CONDUCTOR, (1) NEUTRAL CONDUCTOR, AND (1) GROUND CONDUCTOR IN 3/4" C. UNLESS OTHERWISE SCHEDULED
 - ALL CONDUITS SHALL BE 3/4" C. MINIMUM SIZE.
 - COMMON NEUTRAL CIRCUITS NOT PERMITTED.

DETAIL - POWER WIRING SYMBOLS

SCALE: N.T.S.

GENERAL NOTES:

- PROVIDE ALL LABOR, TOOLS, AND MATERIAL REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL INSTALLATION, AS DESCRIBED ON THE DRAWINGS.
- THE WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
- COMPLY WITH LOCAL CODES ENFORCED BY THE LOCAL INSPECTION AUTHORITY.
- COMPLY WITH THE EDITION OF THE NATIONAL ELECTRICAL CODE BEING ENFORCED FOR THIS PROJECT BY THE LOCAL INSPECTION AUTHORITY.
- COMPLY WITH ALL APPLICABLE LAWS AND ORDINANCES.
- COMPLY WITH THE RULES, REGULATIONS AND INSTALLATION REQUIREMENTS OF THE ELECTRIC UTILITY COMPANY SERVING THE PROJECT.
- ALL MATERIAL SHALL BE NEW, AND SHALL COMPLY WITH THE INDICATED STANDARDS.
- ALL MATERIAL SHALL BE U/L LABELED OR U/L LISTED, EXCEPT WHERE THE MATERIAL IS OF A TYPE NOT INCLUDED IN THE U/L LISTING SERVICE, IN WHICH CASE THE MATERIAL SHALL COMPLY WITH OTHER APPLICABLE INDUSTRY STANDARDS AND THE CONTRACTOR SHALL PROVIDE ANY EXAMINATIONS OR CERTIFICATIONS REQUIRED BY THE LOCAL INSPECTION AUTHORITY IN LIEU OF U/L LISTING.
- ALL MATERIAL SHALL BE OF A SUITABLE TYPE AND RATING FOR THE INTENDED USE, AND SHALL BE INSTALLED IN CONFORMANCE WITH THE INSTRUCTIONS AND RECOMMENDATIONS OF THE MANUFACTURER.
- THE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL OF THE REQUIRED DETAILS OF THE WORK. ALL MATERIALS CUSTOMARILY CONSIDERED TO BE A PART OF THE ELECTRICAL WORK AND REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE OWNER.
- THE EXISTING ELECTRICAL INSTALLATION SHALL REMAIN AS-INSTALLED AND IN OPERATION EXCEPT WHERE OTHERWISE REQUIRED BY INSTALLATION OF NEW WORK. GIVE WRITTEN NOTICE OF ANY UNFORESEEN EXISTING CONDITIONS, WHICH MAY AFFECT THE WORK. WORK INVOLVING EXISTING SYSTEMS OR EXISTING SPACES SHALL BE ACCOMPLISHED WITH THE MINIMUM INCONVENIENCE TO THE OWNER, AND SHALL BE DONE IN A MANNER AND TIME APPROVED BY THE OWNER. NO INTERRUPTIONS SHALL BE ALLOWED FOR THIS PROJECT.
- CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT CONNECTIONS WITH EXISTING EQUIPMENT SCHEDULED TO BE RELOCATED FOR FINAL CONNECTION REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF PLUGS, CORDS, AND RECEPTACLE TYPE WITH EXISTING RELOCATED EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS, AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.
- NO WORK IN HATCHED AREAS UNLESS NOTED OTHERWISE.
- DEVIATIONS FROM THE DRAWINGS REQUIRED TO COMPLY WITH THE LATEST CODES, LATEST JACKSON COUNTY/STATE OF GEORGIA STANDARDS, TO CONFORM TO SPACE CONDITIONS AND TO PROVIDE THE REQUIRED OPERATION, SERVICE, OR MAINTENANCE ACCESSIBILITY SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- REFER TO DRAWINGS, CUT SHEETS, AND OWNER'S FINAL EQUIPMENT ORDER INFORMATION FOR ROUGH-IN HEIGHTS AND DIMENSIONS.
- REFER TO DRAWINGS, CUT SHEETS, AND OWNER'S FINAL EQUIPMENT ORDER INFORMATION FOR FINAL CONNECTION REQUIREMENTS TO EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF PLUGS, CORDS, AND RECEPTACLE TYPE WITH FINAL EQUIPMENT.
- WHERE REQUIRED TO REMOVE SECTIONS OF THE SUSPENDED-TYPE CEILINGS AS REQUIRED TO ALLOW INSTALLATION OF NEW WIRING, INSTALL CEILING BACK TO MATCH EXISTING CONDITIONS. ALL DAMAGED SUSPENDED-TYPE CEILING TILES DURING THIS PROJECT SHALL BE REPLACE WITH NEW TO MATCH EXISTING.
- VERIFY AND CONFIRM BUILDING VOLTAGE BEFORE COMMENCING ANY WORK (AND BEFORE BIDDING EMAIL ANY DISCREPANCIES TO THE ENGINEER).

2	ISSUED FOR BID	MM	AM/AM	05/26/23
1	REVISED PER OWNER COMMENTS	MM	AM/AM	05/23/23
0	ISSUED FOR REVIEW	MM	AM/AM	05/09/23
REV. NO.	REVISION DESCRIPTION	APP'VD.	DRN/CDG	DATE
ENG Group, Inc. 3100 FIVE FORKS TRUCKUM RD, STE 601 LEBURON, GA 30047 TEL (770) 573-3537 FAX (888) 531-2419 EMAIL: info@eng-group.com		NAME JACKSON COUNTY AGRICULTURAL FACILITY 1869 COUNTY FARM RD. JEFFERSON, GA 30549		
DRAWN AM	CHECKED MM	APP'VD. MM	SHEET 0	REV. 0
DATE 05/26/23	SCALE AS NOTED	ENG GROUP PROJECT NO. 23103	DRAWING TITLE SYMBOLS LEGEND & NOTES	
			DRAWING NO. E-01	REV. 0

ISSUED FOR BID
05/26/2023
NOT FOR CONSTRUCTION

SPECIFICATION

A. GENERAL PROVISIONS

1. ALL WORK SHALL CONFORM TO THE CURRENT JACKSON COUNTY AND STATE OF GEORGIA STANDARDS.
2. WORK INCLUDED
 - 2.1 PROVIDE ALL LABOR, TOOLS, AND MATERIAL REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL INSTALLATION, AS DESCRIBED ON THE DRAWINGS.
 - 2.2 THE WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
3. COMPLY WITH THE FOLLOWING:
 - 3.1 LOCAL CODES ENFORCED BY THE LOCAL INSPECTION AUTHORITY.
 - 3.2 THE EDITION OF THE NATIONAL ELECTRICAL CODE BEING ENFORCED FOR THIS PROJECT BY THE LOCAL INSPECTION AUTHORITY.
 - 3.3 ALL APPLICABLE LAWS AND ORDINANCES.
 - 3.4 THE RULES, REGULATIONS AND INSTALLATION REQUIREMENTS OF THE ELECTRIC UTILITY COMPANY SERVING THE PROJECT.
 - 3.5 LATEST JACKSON COUNTY/STATE OF GEORGIA STANDARDS.
4. MATERIALS:
 - 4.1 ALL MATERIAL SHALL BE NEW, AND SHALL COMPLY WITH THE INDICATED STANDARDS.
 - 4.2 ALL MATERIAL SHALL BE U/L LABELED OR U/L LISTED, EXCEPT WHERE THE MATERIAL IS OF A TYPE NOT INCLUDED IN THE U/L LISTING SERVICE, IN WHICH CASE THE MATERIAL SHALL COMPLY WITH OTHER APPLICABLE INDUSTRY STANDARDS AND THE CONTRACTOR SHALL PROVIDE ANY EXAMINATIONS OR CERTIFICATIONS REQUIRED BY THE LOCAL INSPECTION AUTHORITY IN LIEU OF UL LISTING.
 - 4.3 ALL MATERIAL SHALL BE OF A SUITABLE TYPE AND RATING FOR THE INTENDED USE, AND SHALL BE INSTALLED IN CONFORMANCE WITH THE INSTRUCTIONS AND RECOMMENDATIONS OF THE MANUFACTURER.
5. DRAWINGS:
 - 5.1 THE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL OF THE REQUIRED DETAILS OF THE WORK. ALL MATERIALS CUSTOMARILY CONSIDERED TO BE A PART OF THE ELECTRICAL WORK AND REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE OWNER.
 - 5.2 AS-BUILT DRAWINGS SHALL BE MAINTAINED AT THE JOBSITE, AND SHALL BE AVAILABLE FOR REVIEW DURING CONSTRUCTION.
6. EXISTING CONDITIONS:
 - 6.1 THE EXISTING ELECTRICAL INSTALLATION SHALL REMAIN AS-INSTALLED AND IN OPERATION EXCEPT WHERE OTHERWISE REQUIRED BY INSTALLATION OF NEW WORK. GIVE WRITTEN NOTICE OF ANY UNFORESEEN EXISTING CONDITIONS, WHICH MAY AFFECT THE WORK. WORK INVOLVING EXISTING SYSTEMS OR EXISTING SPACES SHALL BE ACCOMPLISHED WITH THE MINIMUM INCONVENIENCE TO THE OWNER, AND SHALL BE DONE IN A MANNER AND TIME APPROVED BY THE OWNER. NO INTERRUPTIONS SHALL BE ALLOWED FOR THIS PROJECT. SUBMIT A DETAILED METHOD OF PROCEDURE (MOP) TO BE FOLLOWED IN ACCOMPLISHING THE WORK FOR APPROVAL BY OWNER.

B. BASIC MATERIALS AND METHODS

1. NAMEPLATES:
 - 1.1 NAMEPLATES SHALL BE "LAMICORE" PLASTIC WITH ENGRAVED 0.25" HIGH LETTERS.
 - 1.2 NAMEPLATE COLORS: WHITE WITH BLACK LETTERS FOR NORMAL AND GENERATOR POWER AND RED WITH WHITE LETTER FOR INVERTER/UPS POWER.
2. FIREPROOFING:
 - 2.1 ALL FIREPROOFING MATERIALS SHALL BE THE PRODUCT OF ONE MANUFACTURER AND SHALL BE U/L LISTED FOR THE TYPE OF APPLICATION WHERE APPLIED.
 - 2.2 PROVIDE CAULK, EXPANDING FOAM, PUTTY, RIGID BOARDS, TAPE AND PACKING AS REQUIRED BY THE LISTING FOR THE TYPE OF PENETRATION BEING FIREPROOFED.
 - 2.3 FIREPROOFING OF SLEEVES, TROUGHS, AND NIPPLES TO BE USED FOR LOW VOLTAGE CABLES AND SHALL BE INDEFINITELY NON-HARDENING AND REMOVABLE WITH COMMON HAND TOOLS.
 - 2.4 FIREPROOFING FOR PENETRATIONS OF FLOOR SLABS SHALL ALSO BE WATERPROOF FOR STANDING WATER IN A NON-FIRE CONDITION.
 - 2.5 ACCEPTABLE MANUFACTURERS:
 - A. DOW CORNING
 - B. NELSON
 - C. 3-M
 - D. SPEC-SEAL
 - 2.6 ALL PENETRATIONS OF FIRE RATED WALLS, SLABS, PARTITIONS, AND CEILINGS SHALL BE FIREPROOFED WITH A LISTED SYSTEM THAT WILL MAINTAIN THE ORIGINAL FIRE RATING OF THE PENETRATED STRUCTURE.
 - 2.7 INITIAL FIREPROOFING OF SLEEVES, CABLE TRAYS, AND WIREWAYS FOR LOW VOLTAGE CABLE SHALL NOT BE INSTALLED UNTIL CABLES ARE INSTALLED OR UNTIL REQUIRED FOR ISSUANCE OF CERTIFICATION OF FINAL INSPECTION, WHICH EVER IS EARLIER.
3. SUPPORTS:
 - 3.1 ALL WORK SHALL BE SUPPORTED FROM THE STRUCTURAL ELEMENTS OF THE BUILDING.
 - 3.2 SIZE AND SPACING OF SUPPORTS SHALL BE DETERMINED BY THE LOAD TO BE SUPPORTED SUCH THAT THE WORKING LOAD OF SUPPORTS WILL NOT EXCEED A SAFETY FACTOR OF 4:1.
 - 3.3 PLASTIC ANCHORS ARE NOT ACCEPTABLE.
 - 3.4 WORK UNDER THIS DIVISION SHALL NOT BE SUPPORTED FROM PIPING, DUCTS, OR WORK OF OTHER TRADES, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS OR WITH THE WRITTEN PERMISSION OF THE ARCHITECT.
4. EQUIPMENT CONNECTIONS:
 - 4.1 OVERHEAD FEEDERS TO FLOOR MOUNTED EQUIPMENT, THAT WHICH IS NOT LOCATED ADJACENT TO A WALL OR COLUMN, SHALL BE PROVIDED WITH A RIGID CONDUIT STANDPIPE. THE STANDPIPE SHALL EXTEND FROM THE CEILING TO THE FLOOR AND BE ANCHORED TO THE FLOOR WITH A FLOOR FLANGE. PROVIDE THE APPROPRIATE CAST CONDUIT TEE FITTING IN THE STANDPIPE FOR CONNECTION OF THE EQUIPMENT.
- C. RACEWAY:
 1. ALL AC BRANCH CIRCUITS, FEEDERS, AND SPECIAL SYSTEMS CIRCUITS SHALL BE INSTALLED IN CONDUIT.
 2. UNLESS SPECIFICALLY NOTED ON THE DRAWINGS TO BE RUN EXPOSED, ALL RACEWAYS SHALL BE CONCEALED IN WALLS, FLOOR SLABS, OR CEILING PLENUMS.
 3. APPLY THREADED JOINT SEALING COMPOUND ON ALL GRC THREADED JOINT CONNECTIONS. RIGID ALUMINUM THREADED JOINTS SHALL BE COATED WITH NON-OXIDE COMPOUND.
 4. CRUSHED OR DEFORMED RACEWAYS SHALL NOT BE INSTALLED.

5. UNLESS OTHERWISE REQUIRED, PROVIDE GRC OR IMC FOR THE FOLLOWING APPLICATIONS:
 - 5.1 WHERE SUBJECT TO DAMAGE
 - 5.2 EXPOSED ON EXTERIOR OF BUILDING
 - 5.3 EXTERIOR CIRCUITS UNDER ROADWAYS UNLESS PVC IN CONCRETE
 - 5.4 FEEDER OR SERVICE CONDUITS UNDER SLAB OR IN GRADE WHERE CONCRETE ENCASED PVC IS NOT USED.
6. PROVIDE EMT IN DRY LOCATIONS ONLY FOR THE FOLLOWING APPLICATIONS:
 - 6.1 CONCEALED WORK IN SLABS, WALLS AND CEILING PLENUMS.
 - 6.2 BRANCH CIRCUIT AND FEEDER WIRING NOT OTHERWISE REQUIRED TO BE GRC OR IMC.
7. PROVIDE PVC FOR THE FOLLOWING APPLICATIONS:
 - 7.1 SINGLE GROUND CONDUITS.
8. FLEXIBLE CONDUIT FOR THE FOLLOWING APPLICATIONS:
 - 8.1 CONCEALED WORK ABOVE SUSPENDED CEILINGS FOR CONNECTIONS OF LIGHT FIXTURES, AND SIMILAR EQUIPMENT, LENGTH NOT TO EXCEED 6'-0".
 - 8.2 CONCEALED WORK IN EXISTING WALLS, EXTENDING MAXIMUM 3'-0" BEYOND CAVITY TO FIRST JUNCTION BOX.

D. WIRE AND CABLE:

1. CONDUCTORS:
 - 1.1 ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, SOLID OR STRANDED
 - 1.2 STRANDED WIRE SHALL NOT BE CONNECTED TO WIRING DEVICES NOT SUITABLE FOR STRANDED WIRE. USE CRIMP-ON TERMINALS.
 - 1.3 CONSTRUCTION:
 - A. NUMBER 10 AND NUMBER 12 - SOLID OR STRANDED.
 - B. NUMBER 8 AND LARGER - STRANDED UNLESS OTHERWISE DETAILED ON THE DRAWINGS.
 - C. NUMBER 14 AND SMALLER - STRANDED, FOR CONTROL CONDUCTORS ONLY.
2. INSULATION:
 - 2.1 THWN / THHN
 - 2.2 SFF - FOR WIRING INSIDE OF FIXTURES
 - 2.3 XHHW
 - 2.4 SIS - FOR WIRING INSIDE SWITCHBOARD
3. VOLTAGE RATING: 600
4. COLOR CODING:
 - 4.1 UNLESS CONTRARY TO REQUIREMENTS OF LOCAL CODES, THE FOLLOWING COLOR CODE SHALL APPLY:

120/208 VOLTS:
PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE
NEUTRAL - WHITE
GROUND - GREEN
 - 4.2 WHERE LOCAL CODES REQUIRE OTHER THAN THESE COLOR CODES TO BE USED, COMPLY WITH LOCAL CODE REQUIREMENTS.
 - 4.3 COLOR CODE SHALL BE INDICATED BY:
 - a. #10, #12 - INSULATION COLOR.
 - b. #8 AND LARGER - COLORED TAPE APPLIED AT ALL TERMINATIONS, AND JUNCTION BOXES.

E. PULL BOXES AND JUNCTION BOXES:

1. JUNCTION BOXES SHALL BE SHEET STEEL, MINIMUM 4" SQUARE, 1.5" DEEP, WITH SUITABLE PLASTER RING IN DRY WALL CONSTRUCTION. BOXES SHALL BE SECURELY ANCHORED IN PLACE, AND SHALL BE SUPPORTED INDEPENDENT OF THE RACEWAY SYSTEM.
2. IN DRY LOCATIONS, PULLBOXES SHALL BE GALVANIZED SHEET STEEL, MINIMUM 12 GAUGE, WITH MACHINE SCREW COVERS, AND WELDED CONSTRUCTION. WELDS SHALL BE COLD GALVANIZED.
3. IN DAMP LOCATIONS OR OUTDOORS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, BOXES IN STEEL RACEWAY RUNS SHALL BE GALVANIZED CAST IRON, WITH GASKETED COVERS AND CONDUIT HUBS OR DRILLED AND TAPPED. BOXES IN PVC RACEWAY RUNS SHALL BE PVC WITH GASKETED COVER. ALL BOXES SHALL BE RATED FOR THEIR APPLICATION, SUCH AS SIDEWALK OR LIGHT VEHICLE TRAFFIC.
4. PROVIDE INSULATED CABLE SUPPORT RACKS IN LARGE FEEDER PULL BOXES.
5. USING PERMANENT WATER PROOF WIDE BLACK MARKER, CLEARLY LABEL COVER OF ALL BRANCH CIRCUIT JUNCTION BOX COVERS WITH PANEL AND CIRCUIT NUMBER OF CIRCUITS CONTAINED IN OR PASSING THROUGH THE BOX.
6. PROVIDE NAMEPLATE ON EACH PULL BOX INDICATING FEEDER ORIGINATION, DESIGNATION, FEEDER CONFIGURATION (IE: 3-WIRE, 4-WIRE, GROUND), LOAD, AND VOLTAGE.

F. SYSTEM CHARACTERISTICS:

1. THE EXISTING SERVICE VOLTAGE IS 208Y/120 VOLTS, 3-PHASE, 4-WIRE, WYE, WITH GROUNDED NEUTRAL.
 2. NEW OVERCURRENT DEVICES IN EXISTING EQUIPMENT:
 1. PROVIDE NEW OVERCURRENT PROTECTIVE DEVICES IN EXISTING SWITCHBOARDS AND PANELBOARDS AS INDICATED.
 2. PROVIDE ALL HARDWARE AND COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.
 3. WHERE A DEVICE IS OBSOLETE AND THE MANUFACTURER DOES NOT OFFER AN EQUIVALENT REPLACEMENT DEVICE, PROVIDE WRITTEN NOTICE.
 4. DEVICE VOLTAGE AND FAULT CURRENT INTERRUPTING RATINGS SHALL BE EQUAL OR EXCEED EXISTING EQUIPMENT RATINGS UNLESS NOTED OTHERWISE.
 5. ALL EXISTING PANELBOARDS ALTERED UNDER THIS PROJECT SHALL BE PROVIDED WITH A REVISED TYPED WRITTEN DIRECTORY INDICATING THE LOCATION AND THE TYPE OF LOAD SERVED BY EACH BRANCH CIRCUIT.
- H. DISCONNECT SWITCH (SAFETY SWITCH)
1. MANUFACTURER: GE, SQUARE D
 2. SHALL BE OF THE FUSIBLE, OR NON-FUSIBLE TYPE, AS INDICATED ON THE DRAWINGS.

3. SHALL BE HEAVY DUTY, QUICK-MAKE, QUICK-BREAK, HP RATED, HINGED COVER DUAL INTERLOCKED WITH SWITCH HANDLE AND WITH EXTERNAL INTERLOCK DEFEAT MECHANISM, WITH PROVISION FOR HANDLE AND DOOR PADLOCKING.
4. IN DRY LOCATIONS SHALL BE TYPE NEMA 1 ENCLOSED.
5. IN DAMP LOCATIONS, OR OUTDOORS, SHALL BE TYPE NEMA-3R, ENCLOSED, EXCEPT WHERE THE APPLIED USE REQUIRES AN ALTERNATE TYPE NEMA ENCLOSURE RATING.
1. BUILDING GROUNDING SYSTEM:
 1. RACEWAYS FOR SEPARATE GROUND CONDUCTORS: SCHEDULE 40 PVC CONDUIT.
 2. CONDUCTORS: 98% CONDUCTIVITY COPPER, SOLID OR STRANDED AS INDICATED, SIZES AS INDICATED ON THE DRAWING.
 3. SINGLE GROUNDING CONDUCTORS, OR RIGID CONDUITS CONTAINING SINGLE GROUND CONDUCTORS, SHALL NOT BE TOTALY ENCRICLED BY FERROUS METAL. USE NYLON BOLTS IN PIPE HANGERS OR IN UNISTRUT CONDUIT STRAPS.
 4. PROVIDE SPECIFIED "NON-OXIDE" COMPOUND BETWEEN MATING SURFACES ON ALL EQUIPMENT BONDING CONNECTIONS WHERE MECHANICAL CONNECTIONS ARE UTILIZED IN LIEU OF EXOTHERMIC WELDS.
 5. GROUND CONDUCTORS SHALL BE INSTALLED USING LONG RADIUS BENDS, MINIMUM 12" RADIUS, AND SHALL MAINTAIN A DOWNWARD OR HORIZONTAL DIRECTION. U-BENDS OR TIGHT RADIUS BENDS LESS THAN 90 DEGREES ARE NOT ACCEPTABLE.
 6. PROVIDE COMBINATION "DO NOT DISCONNECT" AND "DESTINATION" TAGS AT ALL INTERIOR BONDING AND GROUNDING CONNECTIONS. TAGS SHALL BE GREEN PLASTIC LAMINATE WITH WHITE LETTERS. LETTERS SHALL BE MINIMUM 1/4" HIGH. ATTACH ALL TAGS USING NYLON CABLE TY-RAPS.

J. LIGHTING FIXTURES:

1. THE FIXTURE VOLTAGE IS INDICATED BY THE CIRCUIT TO WHICH IT IS CONNECTED. THE CONTRACTOR SHALL DETERMINE FIXTURE VOLTAGE FROM DRAWINGS.
2. IN UTILITY AND MECHANICAL ROOMS THE CONTRACTOR SHALL ADJUST THE LOCATION AND MOUNTING HEIGHT OF THE FIXTURES FOR BEST COORDINATION WITH THE WORK OF OTHER DIVISIONS.
3. LAMPS
 - 4.1 ALL LAMPS OF ANY ONE TYPE SHALL BE OF THE SAME MANUFACTURER.
 - 4.2 SEE SCHEDULED FOR REQUIREMENTS.
- K. WIRING DEVICES:
 1. THE COLOR OF ALL DEVICES FLUSH MOUNTED SHALL MATCH EXISTING BUILDING STYLE.
 2. SWITCHES, RECEPTACLES, FACE PLATES:
 - 2.1 STANDARD WALL TOGGLE SWITCHES FOR LIGHTING CIRCUITS SHALL BE 277 VOLT, 20 AMP, A.C. ONLY, HEAVY DUTY, QUIET TYPE, WITH GROUND BONDING SCREW. PROVIDE HUBBELL #1221 SERIES OR APPROVED EQUIVALENT.
 - 2.2 DUPLEX RECEPTACLES SHALL BE 120 VOLT, 20 AMP, 3-WIRE GROUNDING, NYLON FACE, WITH SELF-GROUNDING ATTACHMENT, WITH GROUND BONDING SCREW. PROVIDE HUBBELL #5262 SERIES OR APPROVED EQUIVALENT.
 - 2.3 DUPLEX RECEPTACLES ON SEPARATE CIRCUITS SHALL BE SIMILAR, EXCEPT RATED 20 AMP.
 - 2.4 SPECIAL PURPOSE RECEPTACLES SHALL BE OF NEMA TYPE INDICATED WITH NYLON FACE WHERE AVAILABLE.
 - 2.5 G.F.C.I. TYPE RECEPTACLES SHALL BE RATED 20 AMP.
 3. FLUSH MOUNTED DEVICE PLATES: BRUSHED STAINLESS STEEL.
 4. LOCATIONS, UNLESS OTHERWISE REQUIRED BY LOCAL CODES (DIMENSIONS TO CENTER).
 - 3.1 SWITCHES: 48 INCHES ABOVE THE FINISHED FLOOR, 4 IN. FROM THE DOOR JAMB ON THE STRIKE SIDE OF THE DOOR.
 - 3.2 RECEPTACLES: 1 FT. 6 IN. ABOVE FINISHED FLOOR IN OFFICE SPACE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 5. GROUNDING: PROVIDE NO. 12 GREEN INSULATED GROUND BONDING JUMPERS FOR ALL SWITCHES AND RECEPTACLES, BONDED TO BOX WITH A SEPARATE GROUNDING SCREW OR LUG.

L. ELECTRICAL IDENTIFICATION:

1. LOCATIONS:
 - 1.1 MAIN SERVICE AND DISTRIBUTION EQUIPMENT ENCLOSURES AND OVER-CURRENT DEVICES.
 - 1.2 ELECTRICAL DISTRIBUTION EQUIPMENT ENCLOSURES.
 - 1.3 TRANSFORMERS
 - 1.4 MOTOR CONTROL DEVICES AND CONTACTORS.
 - 1.5 DISCONNECT SWITCHES.
 - 1.5 CABINETS.
2. LABELS - LOCATIONS REQUIRED:
 - 2.1 ALL MOTORS.
 - 2.2 ALL FIELD EQUIPMENT FED FROM POWER SOURCE.
 - 2.3 ALL FIELD EQUIPMENT SUCH AS MOTORS, CONTROL STATIONS, ETC.
 - 2.4 ALL LIGHTING SWITCHES AND RECEPTACLES IN UNFINISHED AREAS.
3. PROVIDE ENGRAVED PLASTIC EQUIPMENT NAMEPLATES FOR ALL SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, STARTERS, DISCONNECTS, PRIMARY SELECTOR SWITCHES, TIME CLOCK CONTROLS, CONTACTORS, AND TRANSFORMERS.
4. CIRCUIT NAMEPLATE INDICATING CIRCUIT NUMBER AND THE EQUIPMENT SERVED SHALL BE PROVIDED FOR EACH FEEDER IN SERVICE SWITCHBOARD, AND EACH BRANCH DEVICE IN POWER DISTRIBUTION PANELS, AND MOTOR CONTROL CENTERS.
5. DISTRIBUTION EQUIPMENT NAMEPLATES SHALL STATE EQUIPMENT DESIGNATION, AMPERE RATING, VOLTAGE AND PHASE, AND FED FROM (NAME):
6. NAMEPLATES FOR INDIVIDUALLY MOUNTED STARTERS, SAFETY SWITCHES, ETC., SHALL STATE LOAD SERVED, CIRCUIT NUMBER, VOLTAGE AND PHASE.
7. PROVIDE TYPED WRITTEN PANEL DIRECTORIES INDICATING LOCATION AND TYPE OF LOAD SERVED BY EACH BRANCH CIRCUIT.
8. PROVIDE ADHESIVE BACKED LABEL ON EACH WALL SWITCH AND RECEPTACLE DEVICE OUTLET COVER PLATE INDICATING PANELBOARD SERVED FROM AND CIRCUIT NUMBER (I.E.: LPA-6). LABELS SHALL BE MADE ON 3/8" OR 1/2" INCH STOCK, BLACK COLOR LETTERS WITH CLEAR BACKGROUND. LABEL SYSTEM SHALL BE BROTHER "P-TOUCH" SYSTEM OR EQUIVALENT.
9. NAMEPLATE WORDING SHALL BE COORDINATED WITH FINAL EQUIPMENT IDENTIFICATION NOMENCLATURE AND APPROVED BY THE OWNERS'

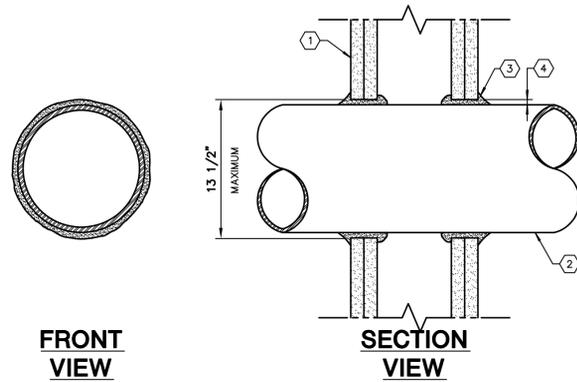
DESIGNATED REPRESENTATIVE PRIOR TO INSTALLATION.

10. LETTER SIZE:
 - 10.1 - 1/4 INCH LETTERS: IDENTIFY INDIVIDUAL EQUIPMENT, AND LOADS.
 - 10.2 - 1/2 INCH LETTERS: IDENTIFY MAJOR ELECTRICAL EQUIPMENT AND PANELBOARDS.
11. WIRE AND CABLE MARKERS
 - 11.1 DESCRIPTION: NON-FERROUS IDENTIFY TAG OR SHRINK TYPE LABEL.
 - 11.2 LOCATIONS: EACH CABLE FEEDER, POWER CIRCUIT, AND CONDUCTOR IN VAULTS, MANHOLES, GUTTERS, PULL BOXES, STARTERS, OUTLET AND JUNCTION BOXES, CONTROL PANELS, PANELBOARDS, SWITCHBOARDS, ETC., AND EACH LOAD CONNECTION.
 - 11.3 POWER AND LIGHTING CIRCUITS: BRANCH CIRCUIT OR FEEDER NUMBER INDICATED ON DRAWINGS.
 - 11.4 CONTROL CIRCUITS: CONTROL WIRE NUMBER INDICATED ON SCHEMATIC AND INTERCONNECTION DIAGRAMS.
 - 11.5 UNDERGROUND WARNING TAPE - 4 INCH WIDE PLASTIC TAPE, DETECTABLE TYPE, COLORED RED WITH SUITABLE WARNING LEGEND DESCRIBING BURIED ELECTRICAL LINES. LOCATION - ALONG LENGTH OF EACH UNDERGROUND CONDUIT OR DIRECT BURIED CABLE OR DUCT BANK.

REV. NO.	REVISION DESCRIPTION	APP'VD.	DRN/CDG	DATE
2	ISSUED FOR BID	MM	AM/AM	05/26/23
1	REVISED PER OWNER COMMENTS	MM	AM/AM	05/23/23
0	ISSUED FOR REVIEW	MM	AM/AM	05/09/23

DRAWN: AM CHECKED: MM APP'VD: MM DATE: 05/26/23	SCALE: AS NOTED SHEET: 23103	NAME: JACKSON COUNTY AGRICULTURAL FACILITY 1869 COUNTY FARM RD. JEFFERSON, GA 30549	DRAWING TITLE: SPECIFICATION E-02 REV: 0
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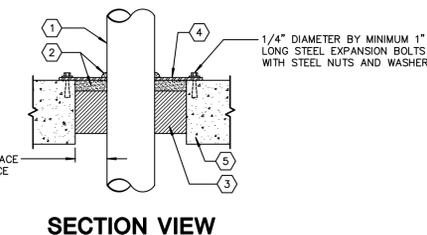
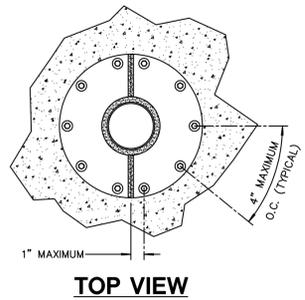


NOTES: (THIS DETAIL ONLY)

- 1 2 x 4 METAL STUD WALLS WITH MINIMUM 1/2" THICK GYPSUM WALLBOARD; WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL V300 OR V400 SERIES DESIGN.
- 2 PENETRATING ITEM(S):
 - *NOMINAL 12" DIAMETER (OR SMALLER) SCHEDULE TEN (OR HEAVIER) STEEL PIPE.
 - *NOMINAL 12" DIAMETER (OR SMALLER) SERVICE WITH EIGHT (OR HEAVIER) CAST IRON SOIL PIPE.
 - *NOMINAL 12" DIAMETER (OR SMALLER) CLASS FIFTY (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
 - *NOMINAL 6" DIAMETER (OR SMALLER) STEEL CONDUIT.
 - *NOMINAL 4" DIAMETER (OR SMALLER) EMT.
 - *NOMINAL 6" DIAMETER (OR SMALLER) TYPE "L" OR (OR HEAVIER) COPPER TUBING.
 - *NOMINAL 1" DIAMETER (OR SMALLER) FLEXIBLE STEEL CONDUIT.
- 3 CAULK INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WITH A MINIMUM OF 1/4" DIAMETER BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT.
- 4 ANNULAR SPACE AND FIRE RATING:

MAX. PIPE DIA.	ANNULAR SPACE	F-RATING (HR)	T-RATING (HR)
1"	0 TO 3/16"	1 OR 2	0+, 1 OR 2
1"	1/4" TO 1/2"	3 OR 4	3 OR 4
4"	0 TO 1/4"	1 OR 2	0
4"	0 TO 1 1/2"	1 OR 2	0
6"	1/4" TO 1/2"	3 OR 4	0
12"	3/16" TO 3/8"	1 OR 2	0

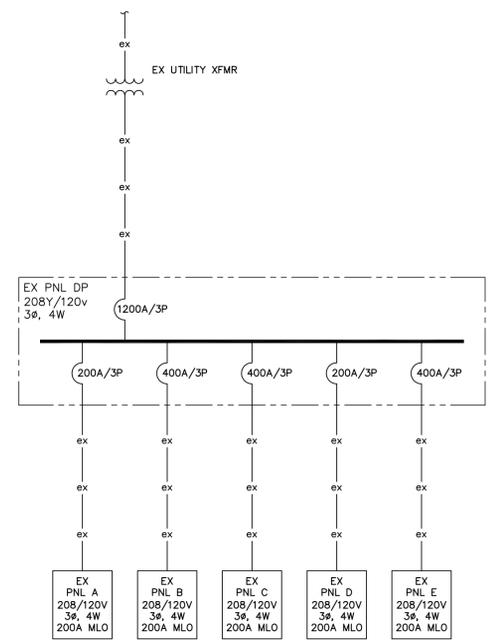
1 PENETRATION DETAIL - UL# W-L-1001
E-1.1 SCALE: N.T.S. 1-4 HOUR FIRE RATING



NOTES: (THIS DETAIL ONLY)

- 1 PENETRATING ITEM(S):
 - *NOMINAL 4" DIAMETER (OR SMALLER) SCH. 10 (OR HEAVIER) STEEL PIPE.
 - *NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL PIPE.
- 2 CAULK - MINIMUM OF 1" THICKNESS FILL MATERIAL APPLIED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SIDES OF WALL. MINIMUM 1/2" DIAMETER BEAD FILL MATERIAL TO BE INSTALLED AT INTERFACE OF PIPE, CONDUIT OR TUBING AND METAL COVER PLATE AND OVER BUTTED SEAMS OF COVER PLATE.
- 3 MINIMUM 4" THICKNESS OF MINIMUM 4.0 pcf MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING.
- 4 TWO PIECE COVER PLATE OF MINIMUM 18 GAUGE STEEL WITH I.D. SAME AS O.D. OF PENETRATE. O.D. OF COVER PLATE MINIMUM 3" GREATER THAN SIZE OF OPENING.
- 5 FLOOR OR WALL ASSEMBLY - MINIMUM OF 5 1/2" THICK CONCRETE FLOOR OR MINIMUM OF 6" THICK CONCRETE WALL.

2 PENETRATION DETAIL - UL# C-BJ-1034
E-1.1 SCALE: N.T.S. 4 HOUR FIRE RATING



3 PARTIAL ONE LINE DIAGRAM - EXISTING
E-1.1 SCALE: N.T.S.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	CONE/LENS/LOUVER	LAMPS	NOTES	DESIGN STANDARD
A	96" LINEAR FIXTURE COLOR CHANGING	HIGH PERFORMANCE ACRYLIC/EXTRUDED ALUMINUM	7388 LUMENS 4000K (120W)	1,2,3,4,6	INSIGHT MEDLEY INTERIOR MI-HO-RGB40-Q-D-8080-AM-X-96-120-DMXFX-TW-TW
B	96" LINEAR FIXTURE WHITE LIGHT (NO COLOR CHANGING)	HIGH PERFORMANCE ACRYLIC/EXTRUDED ALUMINUM	12416 LUMENS 4000K (120W)	1,2,3,4	INSIGHT MEDLEY INTERIOR MI-HO-40K-D-8080-AM-X-96-DIM-TW-TW
C	PROGRAMMABLE STAGE LIGHTING COLOR CHANGING	19 ADJUSTABLE RGB LEDS	10,300 LUMENS (342W)	2,3,5	ROGUE R2X WASH

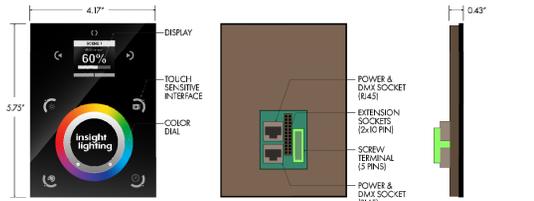
- NOTES:**
- PROVIDE EMERGENCY/BATTERY FOR UNSWITCHED + EMERGENCY SWITCHED OR UN-SWITCHED FIXTURES.
 - APPROVED EQUAL BY LITHONIA, PHILLIPS OR COOPER LIGHTING.
 - PROVIDE 5 YEARS FULL WARRANTY.
 - ANY ALTERNATE FIXTURES SHALL BE APPROVED BY OWNER. VENDOR SHALL PROVIDE LIGHTING CALCULATIONS IF ALTERNATE FIXTURES ARE USED.
 - PROVIDE REQUIRED CLMAPS, SAFETY CABLE, SUPPORT RAILTRUSS FOR STAGE LTG. LOCATION AND DIRECTIONAL LAYOUT SHALL BE APPROVED BY JACKSON COUNTY PROJECT MANAGER (PROVIDE PAN + TILT OPTION). CONTROLLED BY REMOTE DMX CONTROLLER FIXTURE A ABOVE.
 - PROVIDE REMOTE DMX CONTROLLER - SEE FLOOR PLAN.
 - ALL FIXTURES SHALL HAVE DIMMER DRIVER.

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REV. NO.	REVISION DESCRIPTION	APP'VD.	DRN/CHG	DATE
ENG Group, Inc. 3100 FIVE FORKS TRUCKUM RD, STE 601 LEBURN, GA 30547 TEL (770) 573-3537 FAX (866) 531-2419 EMAIL: info@eng-group.com				NAME JACKSON COUNTY AGRICULTURAL FACILITY 1869 COUNTY FARM RD. JEFFERSON, GA 30549
DRAWN: AM DATE: 05/26/23	CHECKED: MM SCALE: AS NOTED	APP'VD: MM ENG GROUP PROJECT NO: 23103	SHEET ONE LINE DIAGRAM, SCHEDULE & DETAILS	DRAWING NO. E-11 REV. 0

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LIQHTDIAL | DMX CONTROL PAD

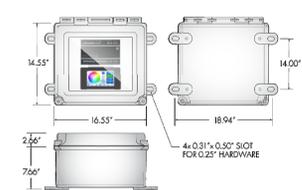
The feature rich lighting controller has been designed to provide a control solution for the most demanding of projects, while still maintaining an easy to use panel of touch sensitive buttons. The controller integrates a graphical color screen allowing scene photos to be displayed. Easily view the selected scene, scene name and design without the need to navigate through complex menus. Change the speed, color and dimmer using the circular palette. The lighting levels, color and effects can be programmed from a PC, Mac, Android, iPad or iPhone using the included software.



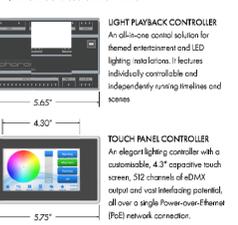
PHAROS | CONTROL SYSTEM

The Pharos Control System is a modular, DMX setup that can be networked for ease of access. All components can be powered via PoE using a Pharos supplied PoE switch. The IPC comes in a variety of universe sizes to fit any project. Pharos also provides optional remote devices to control the system from various access points. If the IPC is networked the controller can be accessed from anywhere in the world. More information can be found here: www.insightlighting.com

PHAROS ENCLOSURE KIT



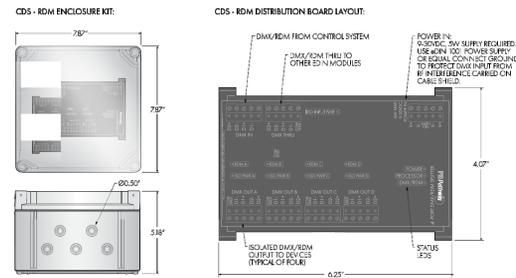
PHAROS CONTROL EXAMPLES



CDS-RDM | DMX DISTRIBUTION KIT - IP67

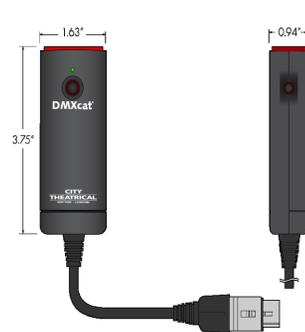
GRAY ABS | -20°C TO 60°C

THE DMX/RDM DISTRIBUTION KIT CONSISTS OF FOUR OUTPUTS. EACH OUTPUT IS LIMITED TO (1) RUN PER OUTPUT, UP TO 32 FIXTURES MAX. FOUR TERMINATORS ARE INCLUDED FOR END OF LINE TERMINATION.



RDM TOOL | ADDRESSING + MONITORING CONTROLLER

The RDM Tool is a powerful DMX/RDM measurement and test tool. It allows for RDM addressing and monitoring of insight lighting (and 3rd party) products that have RDM capability while also being able to test elements of the DMX data signal to ensure proper system operation. It includes a 9V battery for portable operation, micro-usb option, and hardware cable adapter for non-XLR applications.



WARNING: Install product in accordance with local/NEC codes. Disconnect power during installation and wiring.

CAUTION: Read all safety instructions included with product before installing. Care must be taken during installation. Store in a clean, cool and dry environment. Avoid static discharge when handling product.

DO NOT MAKE FUTURE CONNECTIONS WHILE POWER IS ON.

DMX TERMINATOR WIRING: DMX TERMINATOR MUST BE INSTALLED ON THE DATA LINE IN THE BACK OF THE LAST FIXTURE OF EACH RUN.

DMX CABLE REQUIREMENTS: DMX CABLES MUST BE CAT 5E OR BETTER. USE SHIELDED CAT 5E OR BETTER. USE SHIELDED CAT 5E OR BETTER. USE SHIELDED CAT 5E OR BETTER.

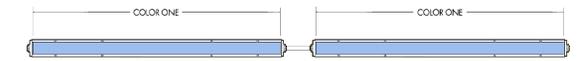
MAXIMUM FIXTURES PER POWER FEED (DMX): OUTPUT: 1-10V VOLTAGE, 0-10V VOLTAGE, 0-10V VOLTAGE, 0-10V VOLTAGE. MAX: 32, 32, 32, 32. MIN: 1, 1, 1, 1. RDM: 32, 32, 32, 32. UP TO 32 FIXTURES. Note: maxed 100v max.

DMX CABLE DAISSY CHAIN WIRING: DATA IN, DATA OUT, DATA IN, DATA OUT, DATA IN, DATA OUT.

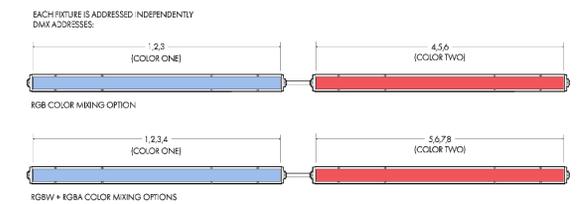
DMX CABLE REQUIREMENTS: DMX CABLES MUST BE CAT 5E OR BETTER. USE SHIELDED CAT 5E OR BETTER. USE SHIELDED CAT 5E OR BETTER. USE SHIELDED CAT 5E OR BETTER.

Revised March 2, 2023. Specifications subject to change without notice. 4341 Main Way NE, Roanoke, VA 24060 P: 502.343.0888 | insightlighting.com

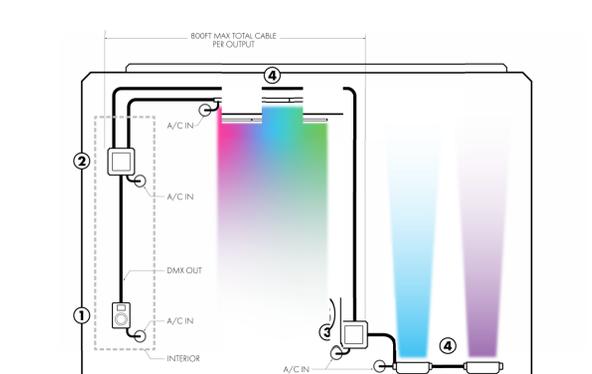
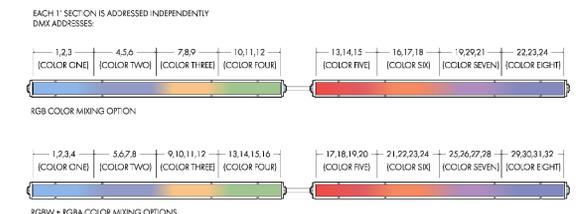
DMX SYSTEM RESOLUTION | DMXSY



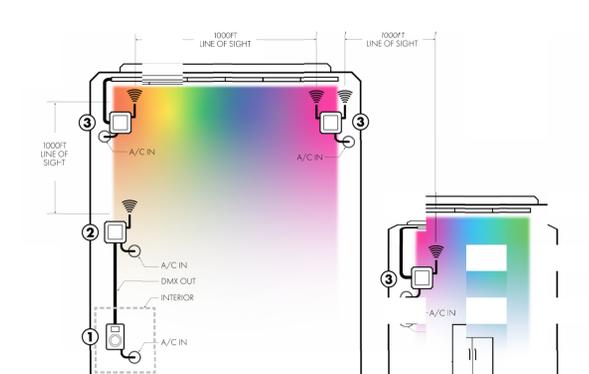
DMX FIXTURE RESOLUTION | DMXFX



DMX FOOT BY FOOT RESOLUTION | DMXFT



- 1 CONTROLLER:** Any DMX512 source can be used to activate the wireless set up, see page 1 for options provided from insight.
- 2 / 3 CDS-RDM:** A DMX distribution controller inside a IP67 rated Hoffman enclosure. Requires 120/277 VAC power input and Baldrin 3105A DMX cable input from a DMX source. All connections and seeds by others. DMX is hard wired from the DMX source to the Hoffman enclosure.
- 4 FIXTURE ARRAY:** A grouping of fixtures that is able to receive DMX control.



- 1 CONTROLLER:** Any DMX512 source can be used to activate the wireless set up, see page 1 for options provided from insight.
- 2 TRANSMITTER (WTR):** A wireless transmitter inside a IP67 rated Hoffman enclosure intended to be installed in the line of sight of a receiver or a receiver. Requires 120/277 VAC power input and Baldrin 984I DMX cable input from a DMX source. All connections and seeds by others. DMX is hard wired from the DMX source to the Hoffman enclosure.
- 3 RECEIVER (WRCE):** A wireless receiver Hoffman enclosure intended to be installed before a run of fixture. Requires 120/277 VAC power input and Baldrin 984I DMX cable output to fixture run. All connections and seeds by others. DMX is hard wired from the Hoffman enclosure to all necessary luminaires (foot).

REV. NO.	REVISION DESCRIPTION	APP'VD.	DRN/CDG	DATE
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NAME: JACKSON COUNTY AGRICULTURAL FACILITY
1869 COUNTY FARM RD.
JEFFERSON, GA 30549

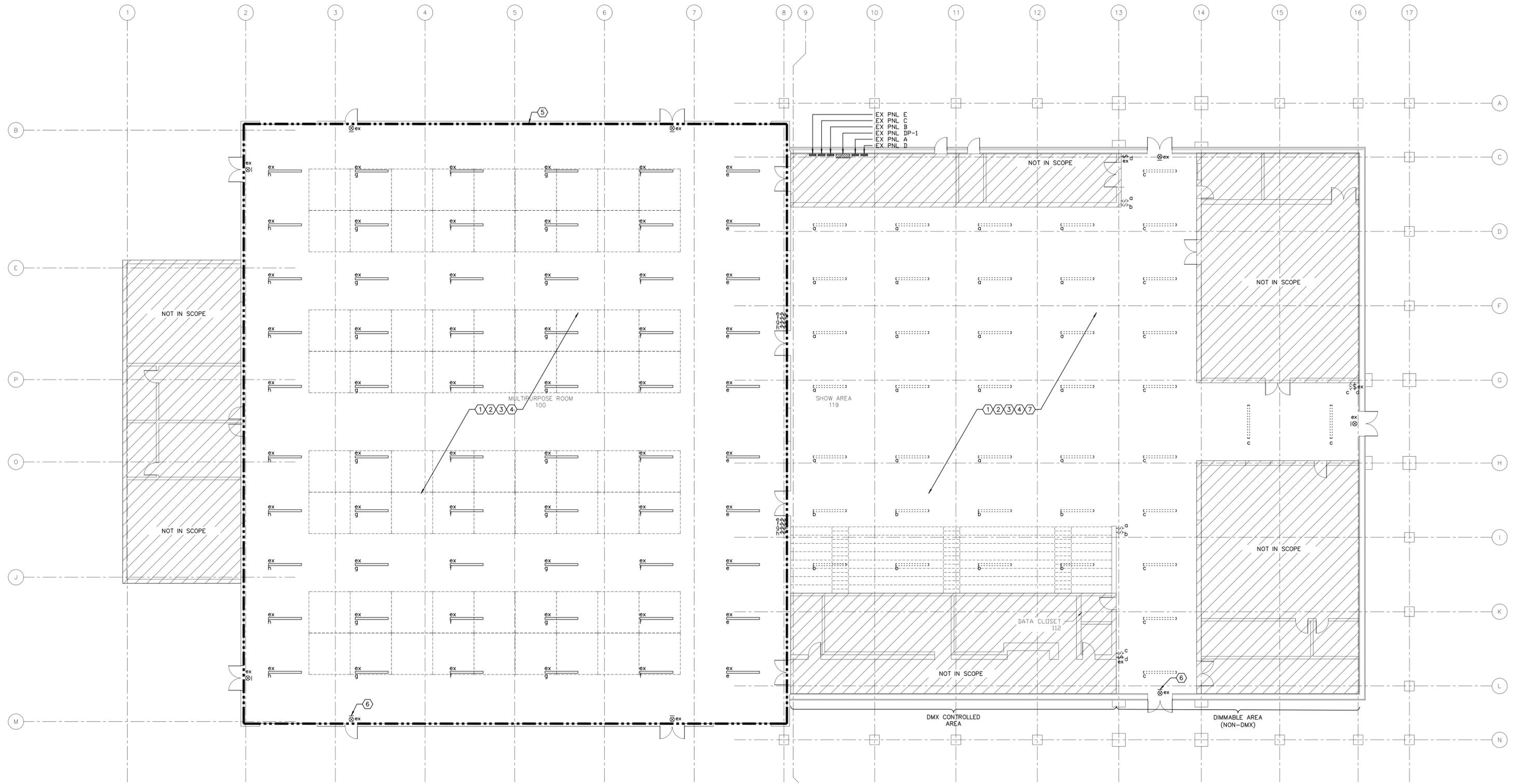
ENG Group, Inc.
3100 FIVE FORKS TRUCKUM RD, STE 601
LILBURN, GA 30047
TEL (770) 573-3537
FAX (866) 531-2419
EMAIL: info@eng-group.com

SCALE: AS NOTED
DATE: 05/26/23

DRAWN: AM
CHECKED: MM
APPROVED: MM
SHEET: 12 OF 12
ENG GROUP PROJECT NO: 23103

DRAWING TITLE: LIGHTING CONTROLS
DRAWING NO: E-12
REV: 0

ISSUED FOR BID
05/26/2023
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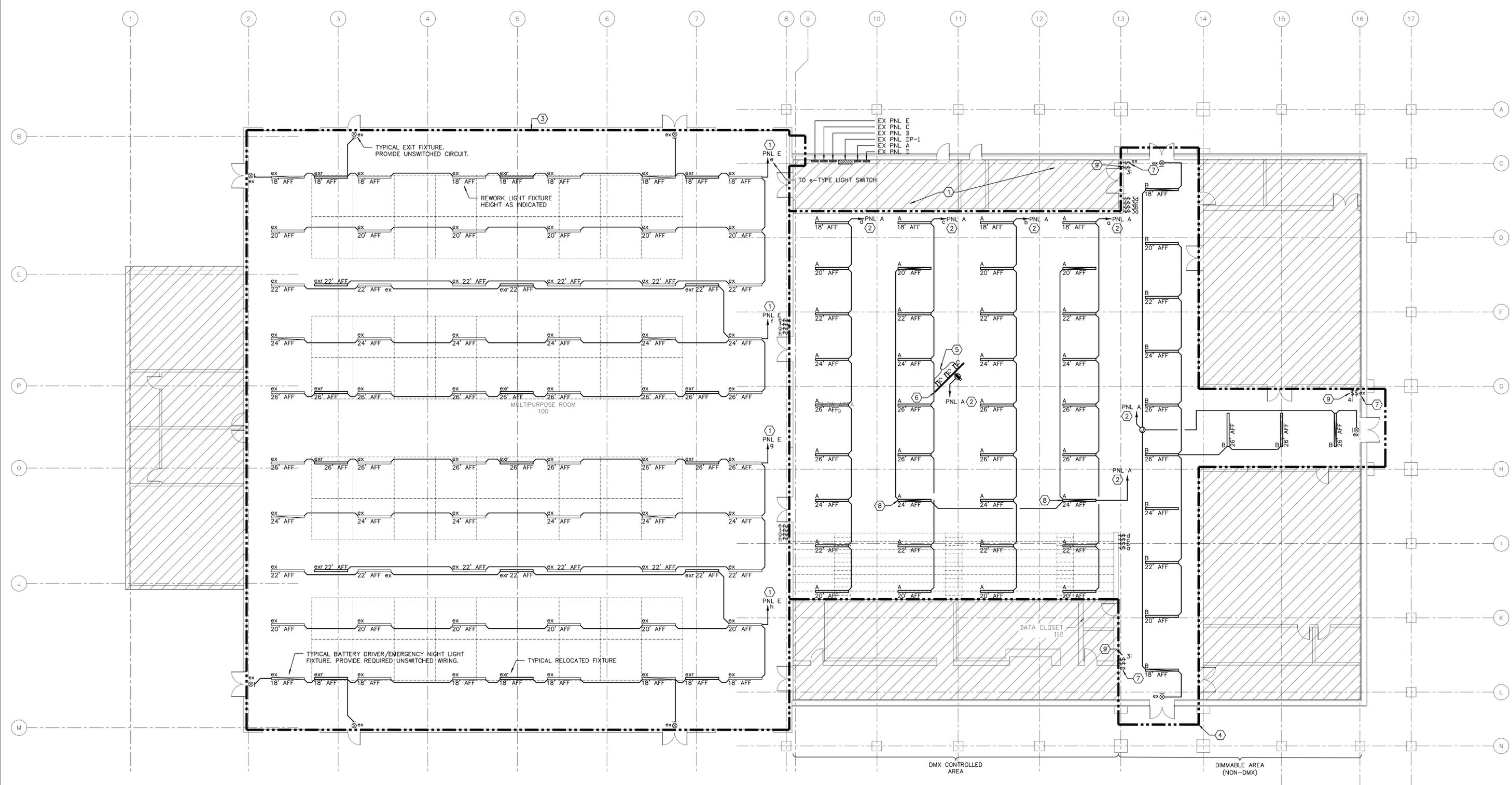
1 SIGHT PLAN - LIGHTING - DEMO
 E-2.1 SCALE: 3/32" = 1'-0"

NOTES: (THIS SHEET ONLY, EXCEPT AS NOTED)

- ① EXISTING POWER, FIRE ALARM AND EXIT LIGHTING SCHEDULED TO REMAIN AS INSTALLED. PROTECT DURING RENOVATION. EXISTING LIGHTING SCHEDULED TO BE REPLACED WITH NEW. MODIFY/EXTEND WIRING AS REQUIRED BY NEW INSTALLATION.
- ② PREPARE AND SUBMIT A DETAILED SCHEDULE AND DESCRIPTION OF THE PROCEDURE TO BE FOLLOWED IN ACCOMPLISHING THE WORK FOR PRIOR APPROVAL BY THE OWNER. SUBMIT THE PROPOSED SCHEDULE AT LEAST (14) BUSINESS DAYS PRIOR TO ACCOMPLISHING THE WORK.
- ③ CONTRACTOR SHALL PROTECT WALLS, FLOOR AND ALL FACILITY/BUILDING PROPERTY FROM DAMAGE. IF DAMAGE OCCURS DURING CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING PROPERTY TO THE PREVIOUS CONDITION AS DETERMINED BY THE PROJECT MANAGER/BUILDING MANAGEMENT (TYPICAL).
- ④ TRACE WIRING + VERIFY EXISTING CONDITIONS BEFORE STARTING ANY WORK.
- ⑤ ALTERNATE #1: WORK SHOWN IN THIS AREA IS OUTSIDE THE SCOPE OF THE ORIGINAL PROJECT. CONTRACTOR TO PROVIDE SEPARATE COSTS ASSOCIATED WITH THE ADDITIONAL WORK SHOWN IN THIS AREA. LIGHTING SCHEDULED TO BE REWORKED AS INDICATED ON NEW LAYOUT - EXISTING FIXTURES TO BE RAISED/HEIGHT AS INDICATED ON NEW LAYOUT + ADD ADDITIONAL FIXTURES/RELOCATED FROM SHOWROOM 119 (PROVIDE WIRING AS INDICATED ON NEW LAYOUT).
- ⑥ EXISTING EXIT LIGHTING - MODIFY/EXTEND WIRING AS INDICATED ON NEW LAYOUT.
- ⑦ LIGHTING SCHEDULED REMOVAL (8' FIXTURES)- NEW LTG SCHEDULED FOR SHOW AREA-119. SALVAGE EXISTING LTG FIXTURES/TO BE REUSED FOR ADJACENT MULTIPURPOSE ROOM (UNUSED QTY, SALVAGE AND TURN OVER TO THE OWNERS STORAGE ROOM - COORDINATE WITH JACKSON COUNTY PROJECT MANAGER).

2	ISSUED FOR BID	MM	AM/AM	05/26/23
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REV. NO.	REVISION DESCRIPTION	APP'VD.	DRN/CHG	DATE
ENG Group, Inc. 3100 FIVE FORKS TRUCKUM RD, STE 601 LEBURN, GA 30547 TEL (770) 573-3537 FAX (866) 531-2419 EMAIL: info@eng-group.com				NAME JACKSON COUNTY AGRICULTURAL FACILITY 1869 COUNTY FARM RD. JEFFERSON, GA 30549
DRAWN AM	CHECKED MM	APP'VD. MM	SHEET 23103	REV. 0
DATE 05/26/23	SCALE AS NOTED	ENG GROUP PROJECT NO. 23103	DRAWING TITLE FLOOR PLAN - LIGHTING - DEMO	
			DRAWING NO. E-21	REV. 0

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05/26/2023
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NOTES:

(THIS SHEET ONLY, EXCEPT AS NOTED)

- 1 REWORK WIRING AS INDICATED ON THE DWGS / RECONNECT WIRING TO DEDICATED LIGHTING CIRCUIT (TYPICAL). MODIFY/EXTEND WIRING AS REQUIRED BY NEW LAYOUT (2#12, #12G IN 0.5"C.). CONNECT TO EXISTING OR SPARE OR NEW 20A/1P BREAKER (VERIFY EXISTING CONDITIONS, AND IF REQUIRED PROVIDE NEW BKR).
- 2 CONNECT TO EXISTING SPARE 20A/1P BREAKER. PROVIDE 2#12, #12G IN 0.5"C.
- 3 ALTERNATE #1: WORK SHOWN IN THIS AREA IS OUTSIDE THE SCOPE OF THE ORIGINAL PROJECT. CONTRACTOR TO PROVIDE SEPARATE COSTS ASSOCIATED WITH THE ADDITIONAL WORK SHOWN IN THIS AREA.
- 4 AREA & STAGE LIGHTS TO BE CONTROLLED BY REMOTE DMX CONTROLLER TO BE INSTALLED IN THE DATA CLOSET (PROVIDE DMX CONTROLLER PAD + TOUCH PNL CONTROLLER + IPAD). PROVIDE REQUIRED PWR TO THE DATA CLOSET DMX CONTROLLER PER SHOP DWGS. LIGHTING VENDOR TO PROVIDE SHOP DRAWINGS FOR LIGHTING CONTROLS AND DMX WIRING REQUIREMENTS FOR LIGHTING CONTROLS. PROVIDE REQUIRED WIRING - DMX CTRL WIRING / STARTER HUBS, CDS-RDM'S, END RUN TERMINATOR, DMX CABLING, ETC PER MANUFACTURER APPROVED SHOP DWGS (AT NO ADDITIONAL COST TO OWNER). TEST THE SYSTEM & PRESENCE OF OWNER AND PROVIDE REPORT. PROVIDE 5-YRS FULL WARRANTY.
- 5 STAGE LIGHTS TO BE INTEGRATED INTO NEW LIGHTING/DMX CONTROL SYSTEM.
- 6 10' LIGHTING TRUSS FOR STAGE LIGHTING TO BE MOUNTED 24' AFF.
- 7 SWITCH CONTROLS LIGHTS OUTSIDE THE SCOPE OF THIS PROJECT.
- 8 COORDINATE FIXTURE LOCATIONS WITH EXISTING RTU AIR DROPS.
- 9 NEW LIGHT SWITCH TO BE DIMMABLE FOR CORRIDOR AREA/SECTION.

1 FLOOR PLAN - LIGHTING - NEW
E-2.2 SCALE: 3/32" = 1'-0"

REV. NO.	REVISION DESCRIPTION	APP'D	CHK'D	DATE
2	ISSUED FOR BID	MM	AM/AM	05/26/23
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0	ISSUED FOR REVIEW	MM	AM/AM	05/09/23
		APP'VD	DRN/CHD	DATE

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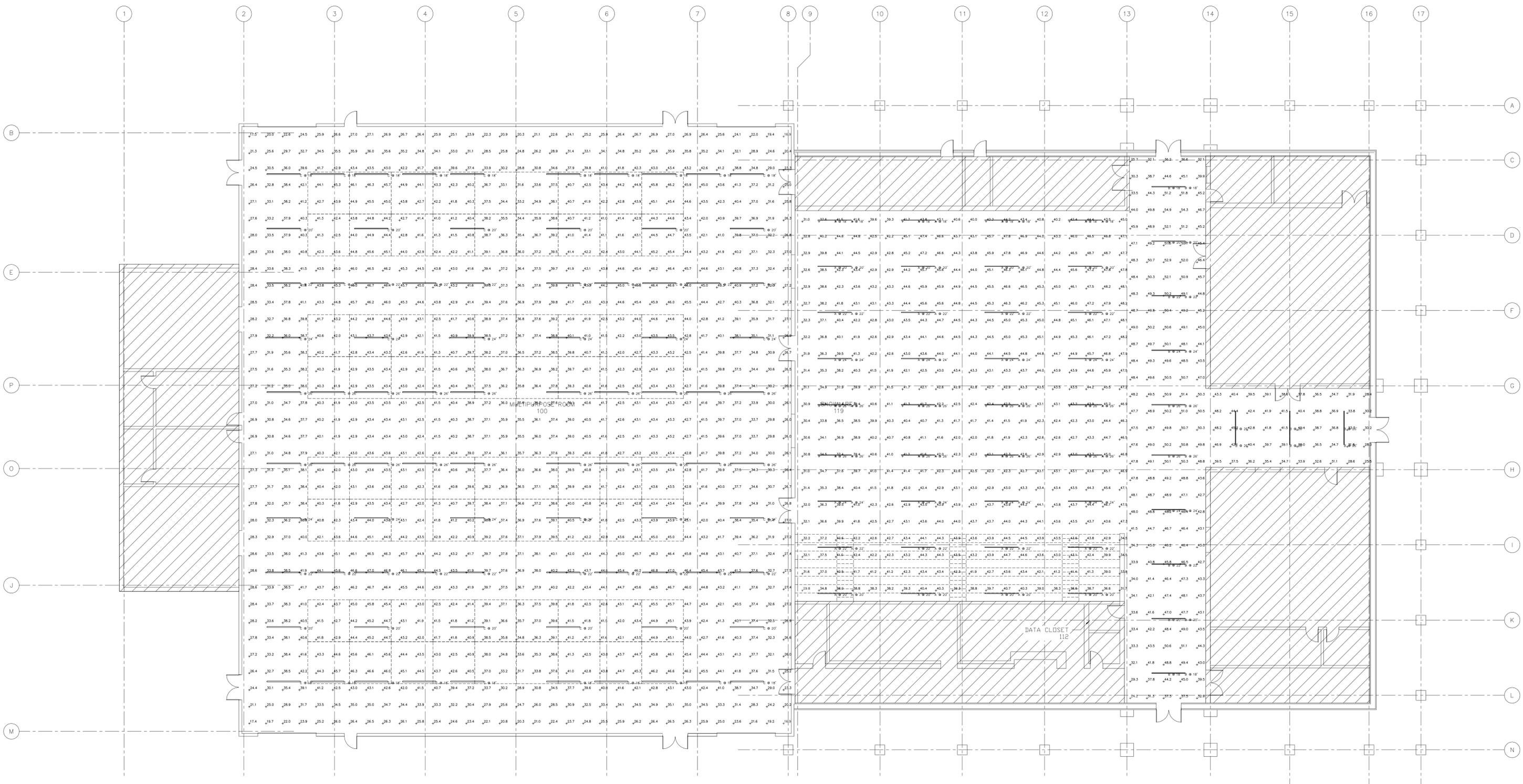
ENG Group, Inc.
3100 FIVE FORKS TRUCKUM RD, STE 601
LILBURN, GA 30047
TEL (770) 573-3537
FAX (606) 531-2419
EMAIL: info@eng-group.com

JACKSON COUNTY AGRICULTURAL FACILITY
1869 COUNTY FARM RD.
JEFFERSON, GA 30549

ENG Group

NAME: JACKSON COUNTY AGRICULTURAL FACILITY
DRAWING TITLE: FLOOR PLAN - LIGHTING - NEW
DRAWING NO.: E-22
REV.: 0

DATE: 05/26/23 SCALE: AS NOTED
APP'VD: MM CHK'D: MM DATE: 05/26/23
ENG GROUP PROJECT NO.: 23103



1 FLOOR PLAN - LIGHTING CALCULATIONS
 E-2.3 SCALE: 3/32" = 1'-0"

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
SHOW AREA	+	42.3 fc	48.8 fc	29.8 fc	1.6:1	1.4:1
SHOW AREA CORRIDOR	+	44.1 fc	55.5 fc	24.2 fc	2.3:1	1.8:1
MULTIPURPOSE ROOM	+	38.4 fc	47.0 fc	16.9 fc	2.8:1	2.3:1

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DRAWN: AM CHECKED: MM APP'VD: MM DATE: 05/26/23 SCALE: AS NOTED ENG GROUP PROJECT NO.: 23103	SHEET FLOOR PLAN - LIGHTING - NEW	DRAWING NO.: E-22 REV.: 0

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05/26/2023
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