



**Boulder County Purchasing**  
**1325 Pearl Street**  
**Boulder, CO 80302**  
[purchasing@bouldercounty.org](mailto:purchasing@bouldercounty.org)

**INVITATION TO BID**  
**COVER PAGE**

---

BID Number:	<b>7067-19</b>
BID Title:	<b>Boulder County Detention Center Phase 1 Administration – Addition – Lighting and Lighting Controls</b>
Pre-Bid Meeting:	A Pre-Bid Conference will <b>not</b> be held.
BID Questions Due:	<b>October 1, 2019</b>
Submittal Due Date:	<b>October 8, 2019 10:00 am</b>
Email Address:	<a href="mailto:purchasing@bouldercounty.org">purchasing@bouldercounty.org</a>
Documents included in this package:	Bid Instructions Terms and Conditions Specifications Insurance and W-9 Requirements Submittal Checklist Bid Tab Section Signature Page Sample Contract Detention Center Luminaire Schedule and Lighting Plans Detention Center Phase 1 Lighting Controls



**Boulder County Purchasing**  
**1325 Pearl Street**  
**Boulder, CO 80302**  
[purchasing@bouldercounty.org](mailto:purchasing@bouldercounty.org)

## **INSTRUCTIONS**

---

### **1. Purpose/Background**

Boulder County Building Services is seeking proposals to provide material and equipment delivery to furnish Lighting and Lighting Controls for the Detention Center Addition located at 3200 Airport Road in Boulder.

### **2. Summary of Work:**

Provide lump sum prices for Lighting, and for Lighting Controls, as detailed on the attached Luminaire Schedule and Plans.

### **3. Written Inquiries**

All inquiries regarding this BID will be submitted via email to the Boulder County Purchasing Office at [purchasing@bouldercounty.org](mailto:purchasing@bouldercounty.org) on or before **2:00 p.m. October 1, 2019**. A response from the county to all inquiries will be posted and sent via email no later than **October 3, 2019**.

**Please do not contact any other county department or personnel with questions or for information regarding this solicitation.**

### **4. Submittal Instructions**

BIDs are due at the Administrative Services Information Desk or email box (preferred) listed below, for time and date recording on or before **10:00 a.m. Mountain Time on October 8, 2019**. A bid opening will be conducted at 11:00 a.m. Mountain Time at county offices.

**Your response can be submitted in the following ways. Please note that email responses to this solicitation are preferred, but are limited to a maximum of 50MB capacity. NO ZIP FILES ALLOWED. Electronic submittals must be received in the email box listed below.**

**Submittals sent to any other box will NOT be forwarded or accepted. This email box is only accessed on the due date of your questions or proposals. Please use the Delivery Receipt option to verify receipt of your email. It is the sole responsibility of the proposer to ensure their documents are received before the deadline specified above. Boulder County does not accept responsibility under any circumstance for delayed or failed email or mailed submittals.**

**Email**      [purchasing@bouldercounty.org](mailto:purchasing@bouldercounty.org); identified as **BID # 7067-19** in the subject line.

-OR-

**US Mail**    One (1) unbound copy of your submittal, printed double-sided, 11 point, on at least 50% post-consumer, recycled paper must be submitted in a sealed envelope, clearly marked as **BID # 7067-19**, to the Administrative Services Information Desk located at 1325 Pearl Street, Boulder, CO 80302.

All BIDs must be received and time and date recorded by authorized county staff by the above due date and time. Sole responsibility rests with the bidder to see that their BID response is received on time at the stated location(s). Any BIDs received after due date and time will be returned to the bidder.

The Board of County Commissioners reserves the right to reject any and all BIDs, to waive any informalities or irregularities therein, and to accept the proposal that, in the opinion of the Board, is in the best interest of the Board and of the County of Boulder, State of Colorado.

**Americans with Disabilities Act (ADA):** If you need special services provided for under the Americans with Disabilities Act, contact the ADA Coordinator or the Human Resources office at (303) 441-3525 at least 48 hours before the scheduled event.



**Boulder County Purchasing**  
**1325 Pearl Street**  
**Boulder, CO 80302**  
[purchasing@bouldercounty.org](mailto:purchasing@bouldercounty.org)

## **TERMS AND CONDITIONS**

---

1. Bidders are expected to examine the drawing, specifications, schedule of delivery, and all instructions. Failure to do so will be at the bidder's risk.
2. Each bidder will furnish the information required in the Invitation to Bid.
3. The Contract/Purchase Order will be awarded to that responsible bidder whose submittal, conforming to the Invitation to Bid, will be most advantageous to the County of Boulder, based on best value not only price.
4. The County of Boulder reserves the right to reject any or all bids and to waive informalities and minor irregularities in bids received, and to accept any portion of or all items proposed if deemed in the best interest of the County of Boulder to do so.
5. No submittal will be withdrawn for a period of thirty (30) days subsequent to the opening of bids without the consent of the County Purchasing Agent or delegated representative.
6. A signed purchase order or contract furnished to the successful bidder results in a binding contract without further action by either party.
7. Late or unsigned bids will not be accepted or considered. It is the responsibility of bidders to ensure that the bid arrives at the Administrative Services Information Desk prior to the time indicated in the "Invitation to Bid."
8. The proposed price will be exclusive of any Federal or State taxes from which the County of Boulder is exempt by law.
9. Any interpretation, correction or change of the bid documents will be made by Addendum. Interpretations, corrections and changes of the bid documents made in any other manner will not be binding, and bidder will not rely upon such interpretations, corrections and changes. The County's Representative will not be responsible for oral clarification.
10. Confidential/Proprietary Information: Bids submitted in response to this "Invitation to Bid" and any resulting contract are subject to the provisions of the Colorado Public (Open) Records Act, 24-72-201 et.seq., C.R.S., as amended. Any restrictions on the use or inspection of material

contained within the bid and any resulting contract will be clearly stated in the bid itself. Confidential/proprietary information must be readily identified, marked and separated/packaged from the rest of the bid. **Co-mingling of confidential/proprietary and other information is NOT acceptable. Neither a bid, in its entirety, nor bid price information will be considered confidential/proprietary. Any information that will be included in any resulting contract cannot be considered confidential.**

**The Boulder County Attorney's Office retains sole authority for determining whether the Colorado Open Records Act requires or permits Boulder County to disclose proposal or bid documents, or any information contained therein, pursuant to an open records request.**

11. Boulder County promotes the purchase/leasing of energy efficient, materials efficient and reduced toxic level products where availability, quality and budget constraints allow. Bidders are expected whenever possible to provide products that earn the ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency with power management features enabled. Bidders are encouraged to offer products and equipment with post-consumer recycled-content materials. Products should be packaged and delivered with a minimum amount of recycled packaging that adequately protects the product, but is not excessive.
12. Pursuant to Colorado law (House Bill 1292), in any bidding process for public works in which a bid is received from a non-resident bidder who is from a state that provides a percentage bidding preference, a comparable percentage disadvantage will be applied to the bid of that bidder. Bidders may obtain additional information from the Department of Personnel's website: <http://www.colorado.gov/dpa/>.



**Boulder County Purchasing**  
**1325 Pearl Street**  
**Boulder, CO 80302**  
[purchasing@bouldercounty.org](mailto:purchasing@bouldercounty.org)

## **SPECIFICATIONS**

---

Refer to

**BCJ A EXP -ELEC – RFI066 Full Set**  
**Boulder County – Jail Phase 1 Lighting Controls**



**Boulder County Purchasing**  
**1325 Pearl Street**  
**Boulder, CO 80302**  
[purchasing@bouldercounty.org](mailto:purchasing@bouldercounty.org)

## **INSURANCE AND W-9 REQUIREMENTS**

---

### **PAYMENT & PERFORMANCE BONDS**

**Both a payment and a performance bond are required for this project if the amount of work exceeds \$50,000 and must each equal 100% of the proposed cost. Please include the cost of this bonding into the total proposed cost.**

### **INSURANCE REQUIREMENTS**

**General Liability**                      \$1,000,000 Each Occurrence  
                                                      \$2,000,000 General Aggregate  
                                                      \$2,000,000 Products Completed Operations Aggregate  
                                                      3 years Products/Completed Operations

**Automobile Liability**                \$1,000,000 Each Accident  
                                                      \*Including Hired & Non-Owned Auto

**Worker's Compensation and Employer's Liability**  
                                                      Statutory limits

Note that the above insurance amounts are the minimum required for this project. **Proof of current insurance must be provided with your proposal in the form of a sample certificate or your proposal will be deemed non-responsive.** If you require a waiver of insurance requirements (e.g. Workers' Compensation and sole proprietorships) you may request one in your response with an explanation.

New certificates will be requested if the contract process takes more than 30 days after an award.

### **W-9 REQUIREMENT**

Provide a copy of your business's W-9 with your proposal.

**SAM.gov REGISTRATION**

Please provide a copy of your business' registration in sam.gov with your proposal.





**Boulder County Purchasing**  
**1325 Pearl Street**  
**Boulder, CO 80302**  
[purchasing@bouldercounty.org](mailto:purchasing@bouldercounty.org)

## SUBMITTAL SECTION

The bidder's attention is especially called to the items listed below, which must be submitted in full as part of the BID. Failure to submit any of the documents listed below as a part of your BID, or failure to acknowledge any addendum in writing with your BID, or submitting a bid on any condition, limitation or provision not officially invited in this Invitation to Bid (BID) may be cause for rejection of the BID.

**THIS CHECKLIST MUST BE SUBMITTED AS PART OF YOUR BID PACKAGE:** Bidder will check each box indicating compliance:

INCLUDED	ITEM
	Name and Address of the Partners and Subcontractors if applicable
	A detailed project schedule with an all-inclusive total cost
	Information on the relevant experience of key personnel
	State your compliance with the Terms and Conditions in the Sample Contract contained in this BID. Specifically list any deviations and provide justification for each deviation.
	Submit three references for similar projects your company has completed within the last three years and contact information
	Insurance Certificate
	W-9 SAM.gov Registration
	Signature Page
	Addendum Acknowledgement(s) (If Applicable)



**Boulder County Purchasing**  
**1325 Pearl Street**  
**Boulder, CO 80302**  
[purchasing@bouldercounty.org](mailto:purchasing@bouldercounty.org)

**BID TAB**

---

**LUMINAIRE SCHEDULE**

**LUMP SUM =**

**LIGHTING CONTROLS off the plans**

**LUMP SUM =**

**No substitutions.**



**Boulder County Purchasing**  
**1325 Pearl Street**  
**Boulder, CO 80302**  
[purchasing@bouldercounty.org](mailto:purchasing@bouldercounty.org)

**SIGNATURE PAGE**

Contact Information	Response
Company Name including DBA	
List Type of Organization (Corporation, Partnership, etc.)	
Name, Title, and Email Address of Person Authorized to Contract with Boulder County	
Company Address	
Company Phone Number	
Company Website	

**By signing below I certify that:**

- I am authorized to bid on my company's behalf.
- I am not currently an employee of Boulder County.
- None of my employees or agents is currently an employee of Boulder County.
- I am not related to any Boulder County employee or Elected Official.
- (Sole Proprietorships Only) I am not a Public Employees' Retirement Association (PERA) retiree.

\_\_\_\_\_  
**Signature of Person Authorized to Bid on  
 Company's Behalf**

\_\_\_\_\_  
**Date**

Note: If you cannot certify the above statements, please explain in a statement of explanation.

# BOULDER COUNTY SAMPLE CONTRACT

---

THIS CONTRACT ("Contract") is entered into by and between the County of Boulder, State of Colorado, a body corporate and politic, acting by and through its Board of County Commissioners for the benefit of the [Department] ("County") and [Supplier] ("Contractor"). County and Contractor are each a "Party," and collectively the "Parties."

In consideration of the mutual covenants contained in this Contract, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

1. Incorporation into Contract: The **Details Summary** is incorporated into this Contract. The **Contract Documents** are incorporated into this Contract by reference, except to the extent that the Proposal, if any is incorporated, contains any obligations placed upon County and not otherwise contained in this Contract.
2. Work to be Performed: Contractor will provide all labor and equipment and do all tasks necessary and incidental to performing the work as described in the **Details Summary** and **Contract Documents** (the "Work"). Contractor will perform the Work (a) in a good and workmanlike manner, (b) at its own cost and expense, (c) in accordance with recognized industry standards of care, skill and diligence for the type of work being performed, and (d) in strict accordance with the Contract.
3. Term of Contract: The **Contract Term** begins on the **Start Date** and expires on the **Expiration Date**, unless terminated sooner. All the Work must be performed during the **Contract Term**.
4. Payment for Work Performed: In consideration of the Work performed by Contractor, and subject to conditions contained in this Contract, County will pay an amount not to exceed the **Contract Amount** to Contractor in accordance with the **Contract Documents**.
5. Invoicing: Contractor will promptly provide a copy of its Form W-9 and invoice template to County upon request. Contractor must submit an invoice to the County by the fifteenth (15th) day of the month following completion of the Work. All invoices submitted require the following components: Contractor's name and address (submitted W-9 address must match remit address), detailed description of services, dates of services, itemization of labor and materials costs, "Bill to: Boulder County" language, payment remittance address, payer, name and address, date of invoice, unique invoice number, and total amount due. Contractor must send all completed invoices to the **Invoice Contact** in the **Details Summary**. Email delivery is preferred by the County; County may require delivery of invoices by email. Failure to submit invoices in a timely manner and in accordance with the terms of this Contract may cause a delay in payment. County may recoup any damages incurred because of Contractor's failure to submit invoices pursuant to the terms of this paragraph. County's acceptance or payment of an invoice will not constitute acceptance of any Work performed under this Contract.
6. Extra Time to Complete the Work: If Contractor cannot complete the Work by the **Expiration Date**, Contractor may request extra time to complete the Work. County, in its sole discretion, may grant Contractor additional time to complete the Work and, if so, will provide Contractor with written notice of the amount of extra time granted. County granting extra time to complete the Work will not entitle Contractor to additional compensation from County. This Contract will remain in full force and effect during any time period that Contractor is permitted to finish completing the Work.
7. Extension of Contract Term (Additional Work): Upon mutual agreement of the Parties, this Contract may be extended until the **Final End Date**. During any extended **Contract Term**, the terms of this Contract will remain in full force and effect, unless otherwise amended in writing by the Parties. Where the Contractor will provide additional services for additional compensation beyond the initial **Contract Amount**, the Parties must execute a written amendment before the then-current **Expiration Date**. If necessary, the written amendment will incorporate an updated Scope of Work and updated Fee Schedule as exhibits. Contractor must provide a current Certificate of Insurance to the County that complies with the **Insurance Requirements** of this Contract, if any, prior to any extended **Contract Term**.

8. Schedule of Work: County may designate the hours (on a daily or weekly basis) during which Contractor can perform the Work, strictly for the purposes of minimizing inconvenience to the County and interference with County operations. Contractor will otherwise set its own work schedule.
9. Indemnity: Contractor will be liable for any damages to persons or property caused by or arising out of the actions, obligations, or omissions of Contractor, its employees, agents, representatives or other persons acting under Contractor's direction or control in performing or failing to perform the Work under this Contract. Contractor will indemnify and hold harmless County, its elected and appointed officials, and its employees, agents and representatives (the "indemnified parties"), from any and all liability, claims, demands, actions, damages, losses, judgments, costs or expenses, including attorneys' fees, which may be made or brought or which may result against any of the indemnified parties as a result or on account of the actions or omissions of Contractor, its employees, agents or representatives, or other persons acting under Contractor's direction or control. This indemnification obligation will extend to claims based on Contractor's unauthorized use or disclosure of confidential information and intellectual property infringement. County will not be obligated to indemnify or defend Contractor under any circumstances. Contractor's obligations under this provision shall survive expiration or termination of this Contract.
10. Nondiscrimination: Contractor will comply with the letter and spirit of the Colorado Anti-Discrimination Act, C.R.S. § 24-34-401, et seq., as amended, and all applicable local, State and Federal laws concerning discrimination and unfair employment practices. County prohibits unlawful discrimination on the basis of race, color, religion, gender, gender identity, national origin, age 40 and over, disability, socio-economic status, sexual orientation, genetic information, or any other status protected by applicable Federal, State or local law. Contractor must require that its subcontractors, if any, similarly comply with all applicable laws concerning discrimination and unfair employment practices.
11. Information and Reports: Contractor will provide to authorized County, State, and Federal government representatives all information and reports that may be required for any purpose authorized by law. Contractor will permit access to such representatives to Contractor's facilities, books, records, accounts, and any other relevant sources of information. Where information required by a representative is in the exclusive possession of a person or entity other than Contractor, Contractor must so certify to the County and explain what efforts it has made to obtain the information.
12. Independent Contractor: Contractor is an independent contractor for all purposes in performing the Work. Contractor is not an employee of the County for any purpose, including the Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the provisions of the Internal Revenue Code, the Colorado Workers' Compensation Act, the Colorado Unemployment Insurance Act, and the Public Employees Retirement Association. Accordingly, County will not withhold or pay any income tax, payroll tax, or retirement contribution of any kind on behalf of Contractor or Contractor's employees. As an independent contractor, Contractor is responsible for employing and directing such personnel and agents as it requires to perform the Work. Contractor will exercise complete authority over its personnel and agents and will be fully responsible for their actions.
13. Termination for Non-Appropriation: The other provisions of this Contract notwithstanding, the County is prohibited by law from making commitments beyond the current fiscal year. Payment to Contractor beyond the current fiscal year is contingent on the appropriation and continuing availability of funding in any subsequent year. County has reason to believe that sufficient funds will be available for the full **Contract Term**. Where, however, funds are not allocated for any fiscal period beyond the current fiscal year, County may terminate this Contract without penalty by providing seven (7) days' written notice to Contractor.
14. Termination for Breach: Either Party's failure to perform any of its material obligations under this Contract, in whole or in part or in a timely or satisfactory manner, will be a breach. The institution of proceedings under any bankruptcy, insolvency, reorganization or similar law, by or against Contractor, or the appointment of a receiver or similar officer for Contractor or any of its property, which is not vacated or fully stayed within thirty (30) days after the institution of such proceeding, will also constitute a breach. In the event of a breach, the non-breaching Party may provide written notice of the breach to the other Party. If the notified Party does not cure the breach, at its sole expense, within thirty (30) days after delivery of notice, the non-breaching Party may exercise any of its remedies provided under this Contract or at law, including immediate termination of this Contract.

15. Termination for Convenience: County may terminate this Contract, in whole or in part, for any reason, upon seven (7) days' advance written notice to Contractor.

16. Remedies for Non-Performance: If Contractor fails to perform any of its obligations under this Contract, County may, at its sole discretion, exercise one or more of the following remedies, which shall survive expiration or termination of this Contract:

a. Suspend Performance: County may require that Contractor suspend performance of all or any portion of the Work pending necessary corrective action specified by the County and without entitling Contractor to an increase in compensation or extension of the performance schedule. Contractor must promptly stop performance and incurring costs upon delivery of a notice of suspension by the County.

b. Withhold Payment Pending Corrections: County may permit Contractor to correct any rejected Work at the County's discretion. Upon County's request, Contractor must correct rejected work at Contractor's sole expense within the time frame established by the County. Upon completion of the corrections satisfactory to the County, County will remit payment to Contractor.

c. Deny Payment: County may deny payment for any Work that does not comply with the requirements of the Contract or that Contractor otherwise fails to provide or complete, as determined by the County in its sole discretion. Upon County request, Contractor will promptly refund any amounts prepaid by the County with respect to such non-compliant Work.

d. Removal: Upon County's request, Contractor will remove any of its employees or agents from performance of the Work, if County, in its sole discretion, deems any such person to be incompetent, careless, unsuitable, or otherwise unacceptable.

17. Binding Arbitration Prohibited: County does not agree to binding arbitration by any extra-judicial body or person.

18. Conflicts of Interest: Contractor must not engage in any business or personal activities or practices or maintain any relationships that conflict in any way with the full performance of Contractor's obligations.

19. Notices: All notices provided under this Contract must be in writing and sent by Certified U.S. Mail (Return Receipt Requested), electronic mail, or hand-delivery to the other Party's **Contact** at the address specified in the **Details Summary**. For certified mailings, notice periods will begin to run on the day after the postmarked date of mailing. For electronic mail or hand-delivery, notice periods will begin to run on the date of delivery.

20. Statutory Requirements: This Contract is subject to all statutory requirements that are or may become applicable to counties or political subdivisions of the State of Colorado generally, including but not limited to: C.R.S. § 38-26-107, which requires withholding funds where the County receives a claim for payment from a supplier or subcontractor of Contractor upon notice of final settlement (required for public works contracts that exceed \$150,000); C.R.S. § 8-17-101 et seq.; C.R.S. § 18-8-301, et seq.; and C.R.S. § 18-8-401, et seq.

21. Public Contracts for Services (C.R.S. §§ 8-17.5-101, et seq.): Contractor hereby certifies, warrants, and agrees that it does not knowingly employ or contract with an illegal alien who will perform work under this Contract and further certifies that it will confirm the employment eligibility of all employees who are newly hired for employment to perform work under this Contract by participating in the E-Verify Program established under Pub. L. 104-28 or the department verification program established under C.R.S. § 8-17.5-102(5)(c). Contractor (i) shall not knowingly employ or contract with an illegal alien to perform work under this Contract; (ii) shall not enter into a contract with a subcontractor that fails to certify to the contractor that the subcontractor shall not knowingly employ or contract with an illegal alien to perform work under this Contract; (iii) has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this Contract through participation in the E-Verify program or department program; (iv) is prohibited from using either the E-Verify program or department program procedures to undertake preemployment screening of job applicants while this Contract is being performed; and (v) shall comply with any reasonable request by the department made in the course of an investigation that the Colorado Department of Labor and Employment is undertaking pursuant to the authority established in C.R.S. § 8-17.5-102(5). If Contractor obtains actual knowledge that a subcontractor performing work under this

Contract knowingly employs or contracts with an illegal alien, Contractor shall (a) notify the subcontractor and County within three (3) days that Contractor has actual knowledge that subcontractor is employing or contracting with an illegal alien; and (b) terminate the subcontract if, within three (3) days of receiving notice hereunder, subcontractor does not stop employing or contracting with the illegal alien; except that Contractor shall not terminate the contract with the subcontractor if during such three (3) days the subcontractor provides information to establish that the subcontractor has not knowingly employed or contracted with an illegal alien. Contractor's violation of this provision will constitute a material breach of this Contract, entitling the County to terminate the contract for breach. If this Contract is so terminated, Contractor shall be liable for actual and consequential damages to the County.

22. Entire Agreement/Binding Effect/Amendments: This Contract represents the complete agreement between the Parties and is fully binding upon them and their successors, heirs, and assigns, if any. This Contract terminates any prior agreements, whether written or oral in whole or in part, between the Parties relating to the Work. This Contract may be amended only by a written agreement signed by both Parties.

23. Assignment/Subcontractors: This Contract may not be assigned or subcontracted by Contractor without the prior written consent of the County. If Contractor subcontracts any of its obligations under this Contract, Contractor will remain liable to the County for those obligations and will also be responsible for subcontractor's performance under, and compliance with, this Contract.

24. Governing Law/Venue: The laws of the State of Colorado govern the construction, interpretation, performance, and enforcement of this Contract. Any claim relating to this Contract or breach thereof may only be brought exclusively in the Courts of the 20<sup>th</sup> Judicial District of the State of Colorado and the applicable Colorado Appellate Courts.

25. Breach: The failure of either Party to exercise any of its rights under this Contract will not be deemed to be a waiver of such rights or a waiver of any breach of the Contract. All remedies available to a Party in this Contract are cumulative and in addition to every other remedy provided by law.

26. Severability: If any provision of this Contract becomes inoperable for any reason but the fundamental terms and conditions continue to be legal and enforceable, then the remainder of the Contract will continue to be operative and binding on the Parties.

27. Third-Party Beneficiary: Enforcement of the terms and conditions and all rights and obligations of this Contract are reserved to the Parties. Any other person receiving services or benefits under this Contract is an incidental beneficiary only and has no rights under this Contract. Notwithstanding, where the beneficiary **Department** is led by an Elected Official, such Elected Official shall be considered a third-party beneficiary.

28. Colorado Open Records Act: County may disclose any records that are subject to public release under the Colorado Open Records Act, C.R.S. § 24-72-101, et seq.

29. Conflict of Provisions: If there is any conflict between the terms of the main body of this Contract and the terms of any of the **Contract Documents**, the terms of the main body of the Contract will control.

30. Governmental Immunity: Nothing in this Contract shall be construed in any way to be a waiver of the County's immunity protection under the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, et seq., as amended.

31. Representations and Warranties: Contractor represents and warrants the following:

- a. Execution of this Contract and performance thereof is within Contractor's duly authorized powers;
- b. The individual executing this Contract is authorized to do so by Contractor;
- c. Contractor is authorized to do business in the State of Colorado and is properly licensed by all necessary governmental and public and quasi-public authorities having jurisdiction over the Work and the Contractor; and
- d. Contractor and its subcontractors, if any, are financially solvent, able to pay all debts as they mature, and have sufficient working capital to complete the Work and perform all obligations under the Contract.

32. Legal Compliance: Contractor assumes full responsibility for obtaining and maintaining any permits and licenses required to perform the Work. Contractor's performance under this Contract and the Work itself will comply with all Federal, State, and local laws, regulations, ordinances and codes.
33. Litigation Reporting: Contractor is not currently involved in any action before a court or other administrative decision-making body that could affect Contractor's ability to perform the Work. Contractor will promptly notify the County if Contractor is served with a pleading or other document in connection with any such action.
34. Tax Exemption: County is exempt from payment of Federal, State, and local government taxes. Contractor shall collect no tax from the County, and the County shall not be liable to pay any taxes imposed on Contractor. County shall provide its tax exemption status information to Contractor upon request.
35. Delegation of Authority: The Parties acknowledge that the Board of County Commissioners has delegated authority to the Department Head or Elected Official that leads the beneficiary **Department** and their designees to act on behalf of the County under the terms of this Contract, including but not limited to the authority to terminate this Contract.
36. Ownership of Work Product: All work product, property, data, documentation, information or materials conceived, discovered, developed or created by Contractor pursuant to this Contract ("Work Product") will be owned exclusively by the County. To the extent possible, any Work Product will be deemed to be a work made for hire. Contractor unconditionally and irrevocably transfers and assigns to the County all right, title and interest in and to any Work Product.
37. Publicity Releases: Contractor will not refer to this Contract or the County in commercial advertising without prior written consent of the County. This provision shall survive expiration or termination of this Contract.
38. Execution by Counterparts; Electronic Signatures: This Contract may be executed in multiple counterparts, each of which will be deemed an original, but all of which will constitute one agreement. The Parties approve the use of electronic signatures, governed by the Uniform Electronic Transactions Act, C.R.S. §§ 24 71.3 101 to 121. The Parties will not deny the legal effect or enforceability of this Contract solely because it is in electronic form or because an electronic record was used in its creation. The Parties will not object to the admissibility of this Contract in the form of electronic record, or paper copy of an electronic document, or paper copy of a document bearing an electronic signature, because it is not in its original form or is not an original.
39. Limitation on Public Statements and Lobbying Activity. During the term of this Contract, Contractor may receive from the County its confidential data, work product, or other privileged or confidential information that is protected by law. To maintain the fact and appearance of absolute objectivity, Contractor shall not, without the prior written consent of the County, which shall not be unreasonably withheld, do any of the following: (a) disclose information obtained because of this contractual relationship to any third party; (b) lobby any State or Federal agency on any pending matter while this Contract is effective; or (c) make any public statements or appear at any time to give testimony at any public meeting on the subject matters regarding which Contractor is or was retained by the County. County may set reasonable conditions on any disclosure authorized by the County under this provision. Notwithstanding, Contractor may make disclosures as required by law, and to law enforcement officials in connection with any criminal justice investigation.
40. Sustainability: County encourages Contractor to consider the procurement and use of environmentally preferable products and services while performing services under this Contract. "Environmentally preferable purchasing" means making purchasing choices for products and services that have a lesser or reduced adverse effect on human health and the environment when compared with competing products and services that serve the same purpose. Environmentally preferable purchasing is consistent with the County's commitment to protecting our air, water, soil, and climate for current and future generations. County encourages Contractor to incorporate the following actions into Contractor's performance of the Work: environmentally preferable supplies and services; conservation of water; efficient energy use; waste prevention; reuse and recycle construction and de-construction materials in a manner that maximizes reuse of materials; sustainable transportation choices, including consideration to business communication software such as Skype alternative to air travel and public transit or carpooling for in-person



meetings; pollution prevention; low toxicity for public health & safety; and reduced emissions to address climate change.

41. Insurance Requirements: Prior to commencing the Work, Contractor will provide a Certificate of Insurance to the County demonstrating adequate insurance coverage as required by this paragraph. All policies evidencing coverage required by the Contract will be issued by insurance companies satisfactory to the County. Contractor will forward Certificates of Insurance directly to the **County Department** and **Contact** listed in the **Details Summary**.

a. For the entire duration of this Contract including any extended or renewed terms, and longer as may be required by this Contract, Contractor shall procure and maintain at its own expense, and without cost to the County, the following kinds and minimum amounts of insurance to insure the liability risks that Contractor has assumed under this Contract:

i. **Commercial General Liability**

***Non-Construction contracts use the following language:***

This coverage should be provided on an Occurrence Form, ISO CG001 or equivalent, with Minimum limits of \$1,000,000 Each Occurrence, \$2,000,000 General Aggregate and \$2,000,000 Products Completed Operations Aggregate.

***Construction Contracts only – include the following paragraph:***

Coverage should be provided on an Occurrence form, ISO CG0001 or equivalent. The policy shall be endorsed to include Additional Insured Owners, Lessees or Contractors endorsements CG 2038 (or equivalent), Designated Construction Project(s) General Aggregate Endorsement CG2503 (or equivalent) and Additional Insured Completed Operations for Owners, Lessees or Contractors CG 2037 (or equivalent). Minimum limits required of \$1,000,000 Each Occurrence, \$2,000,000 General Aggregate and \$2,000,000 Products/Completed Operations Aggregate. The County requires the Products/Completed Operations coverage to be provided 3 years after completion of construction. An endorsement must be included with the certificate.

ii. **Automobile Liability**

Bodily Injury and Property Damage for any owned, hired, and non-owned vehicles used in the performance of the Contract. Minimum limits \$1,000,000 Each Accident.

***This coverage may not be required if Contractor is not using a vehicle as part of its performance under the contract. Contact Risk Management with any questions.***

iii. **Workers' Compensation and Employer's Liability**

Workers' Compensation must be maintained with the statutory limits. Employer's Liability is required for minimum limits of \$100,000 Each Accident/\$500,000 Disease-Policy Limit/\$100,000 Disease-Each Employee.

***This coverage may not be required if contractor is not mandated under State law to maintain this coverage. A waiver is available on the contracts routing website.***

iv. **Umbrella / Excess Insurance**

Umbrella/Excess Liability insurance in the amount \$[X],000,000.00, following form.

***This insurance is a broad, high-limit policy, which acts more than the underlying primary insurance policy. This coverage is designed to provide additional liability limits beyond the primary insurance limits and is triggered upon the underlying limits becoming exhausted. Umbrella / Excess insurance is most commonly required when an exposure to the County could potentially create liabilities in excess of the basic insurance limits. The most common limits for these policies range from \$2,000,000 to \$5,000,000.***

*Please consult with Risk Management if you feel this coverage should be required.*

**IN ADDITION TO THE ABOVE, ONE OR MORE OF THE FOLLOWING FOUR (4) INSURANCE COVERAGES MAY BE REQUIRED. CONTACT RISK MANAGEMENT IF YOU HAVE QUESTIONS ABOUT WHICH INSURANCE COVERAGE TO INCLUDE. DELETE THIS INSTRUCTION (AND ANY INAPPLICABLE INSURANCE PARAGRAPHS) WHEN FINALIZING THE CONTRACT:**

v. **Professional Liability (Errors and Omissions)**

***All contractors required to be professionally certified by the State of Colorado (i.e., architects, engineers, doctors, nurses, etc.) and/or any consultants whose errors in judgment, planning, design, etc. could result in economic loss to the County must provide proof of professional liability coverage. This also applies to anyone managing or overseeing construction.***

Professional liability coverage with minimum limits of \$1,000,000 Per Loss and \$1,000,000 Aggregate. Professional Liability provisions indemnifying for loss and expense resulting from errors, omission, mistakes or malpractice is acceptable and may be written on a claims-made basis. The contractor warrants that any retroactive date under the policy shall precede the effective date of this Contract; and that either continuous coverage will be maintained or an extended discovery period will be exercised for a period of two (2) years beginning at the time work under this Contract is completed.

vi. **Pollution Liability**

***This coverage is required whenever work under the contract involves pollution risk to the environment or losses caused by pollution conditions (including asbestos) that may arise from the operations of the Contractor described in the Contractor's scope of services.***

Coverage pay for those sums the Contractor becomes legally obligated to pay as damages because of Bodily Injury, Property Damage or environmental Damage arising out of a pollution incident caused by the Contractor's work including Completed Operations. Coverage shall include emergency response expenses, pollution liability during transportation (if applicable) and at Non-Owned Waste Disposal Site (if applicable). The Minimum limits required are \$1,000,000 Per Occurrence/Loss and \$1,000,000 Policy Aggregate. If the coverage is written on a claims-made basis, the Contractor warrants that any retroactive date applicable to coverage under the policy precedes the effective date of this Contract; and that continuous coverage will be maintained or an extended discovery period will be exercised for a period of three (3) years beginning from the time that work under this contract is completed. County shall be named as an additional insured for ongoing operations and completed operations.

vii. **Third Party Commercial Crime Insurance / Third Party Fidelity Bond**

***Crime / Third Party Fidelity covers the contractor and the contractor's employees when engaged in work for a client on behalf of the County. This coverage is for employee dishonesty, theft, embezzlement, forgery and alteration. Coverage is required when the contractor will be handling money or collecting fees on behalf of the County or when the contractor has access to client's personal property and/or documentation***

The Crime limit shall be \$1,000,000 Per Loss and include an endorsement for "Employee Theft of Client Property". In order to provide coverage to County during the course of this contract, Commercial Crime policies must be endorsed to cover Third Party Fidelity. Third party fidelity covers the vendor's employees when engaged in work for a client. In addition, the County will be listed as loss payee on the commercial crime coverage. This third-party coverage can also be provided by obtaining a third-party fidelity bond.

viii. **Privacy / Cyber Liability Insurance**

As a provider of a service which *may* require the knowledge and retention of personal identifiable information including but not limited to, names, dates of birth, social security numbers, usernames,

and passwords, and/or HIPAA sensitive personal information of clients served, the following minimum insurance limits are required:

Contractors with 10 or fewer County clients:	\$50,000
Contractors with 11 – 15 County clients:	\$500,000
Contractors with more than 25 County clients:	\$1,000,000

***If the scope does not pertain to clients directly, contact Risk Management for appropriate language.***

ix. **Sexual Abuse and Molestation Coverage**

As a provider of a service which has contact with individuals that are part of a sensitive population and are in a position of trust the following minimum insurance limits are required:

Contractors with 5 or fewer County clients:	\$100,000
Contractors with 6-10 County clients:	\$250,000
Contractors with 11-15 County clients:	\$500,000
Contractors with 16 or more County clients:	\$1,000,000

If the number of clients increases during the contract period, the required coverage limit will increase to correspond accordingly.

***If the scope does not pertain to clients directly, contact Risk Management for appropriate language.***

**THE STATED INSURANCE LIMITS FOR ALL COVERAGES ARE MINIMUM AMOUNTS; DEPENDING ON THE CONTRACT, HIGHER LIMITS MAY BE REQUIRED OR ADVISABLE. CONTACT RISK MANAGEMENT IF YOU HAVE ANY QUESTIONS ABOUT MINIMUM LIMITS. DELETE THIS PARAGRAPH WHEN FINALIZING THE CONTRACT.**

b. Boulder County as Additional Insured: Boulder County shall be named as an additional insured for General Liability, Umbrella/Excess Liability, and Pollution Liability, as designated in this Contract. Additional insured shall be endorsed to the policy.

**THE ADDITIONAL INSURED WORDING SHOULD BE AS FOLLOWS**: *County of Boulder, State of Colorado, a body corporate and politic, is named as Additional Insured.*

c. Notice of Cancellation: Each insurance policy required by this Contract shall provide the required coverage and shall not be suspended, voided or canceled except after thirty (30) days' prior written notice has been given to the County except when cancellation is for non-payment of premium, then ten (10) days' prior notice may be given. If any insurance company refuses to provide the required notice, Contractor or its insurance broker shall notify the County any cancellation, suspension, or nonrenewal of any insurance policy within seven (7) days of receipt of insurers' notification to that effect.

d. Insurance Obligations of County: County is not required to maintain or procure any insurance coverage beyond the coverage maintained by the County in its standard course of business. Any insurance obligations placed on the County in any of the **Contract Documents** shall be null and void.

e. Deductible: Any and all deductibles contained in any insurance policy shall be assumed by and at the sole risk of Contractor.

f. Primacy of Coverage: Coverage required of Contractor and its subcontractors, if any, shall be primary over any insurance or self-insurance program carried by the County.

g. Subrogation Waiver: All insurance policies in any way related to this Contract secured or maintained by Contractor as required herein shall include clauses stating that each carrier shall waive all rights of recovery, under subrogation or otherwise, against County, its organizations, officers, agents, employees, and volunteers.

**[Signature Page to Follow]**

IN WITNESS WHEREOF, the Parties have executed and entered into this Contract as of the latter day and year indicated below.

<b>SIGNED for and on behalf of Boulder County</b>		<b>SIGNED for and on behalf of Contractor</b>	
Signature:		Signature:	
Name:		Name:	
Title:		Title:	
Date:		Date:	
<i>↓↓ For Board-signed documents only ↓↓</i>			
Attest:		<i>Initials</i>	
Attestor Name:			
Attestor Title:			

**CONTRACTOR’S CERTIFICATION OF COMPLIANCE**

Pursuant to Colorado Revised Statutes, § 8-17.5-101, et seq., as amended, as a prerequisite to entering into a contract for services with Boulder County, Colorado, the undersigned Contractor hereby certifies that at the time of this certification, Contractor does not knowingly employ or contract with an illegal alien who will perform work under the attached contract for services and that the Contractor will participate in the E-Verify Program or Department program, as those terms are defined in C.R.S. § 8-17.5-101, et seq., in order to confirm the employment eligibility of all employees who are newly hired for employment to perform work under the attached contract for services.

CONTRACTOR:

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name (Print or Type)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

Note: Registration for the E-Verify Program can be completed at: <https://e-verify.uscis.gov/enroll/>.

INSERT ATTACHMENT A  
Boulder County BCJ A EXP – ELEC – RFI066 Full Set

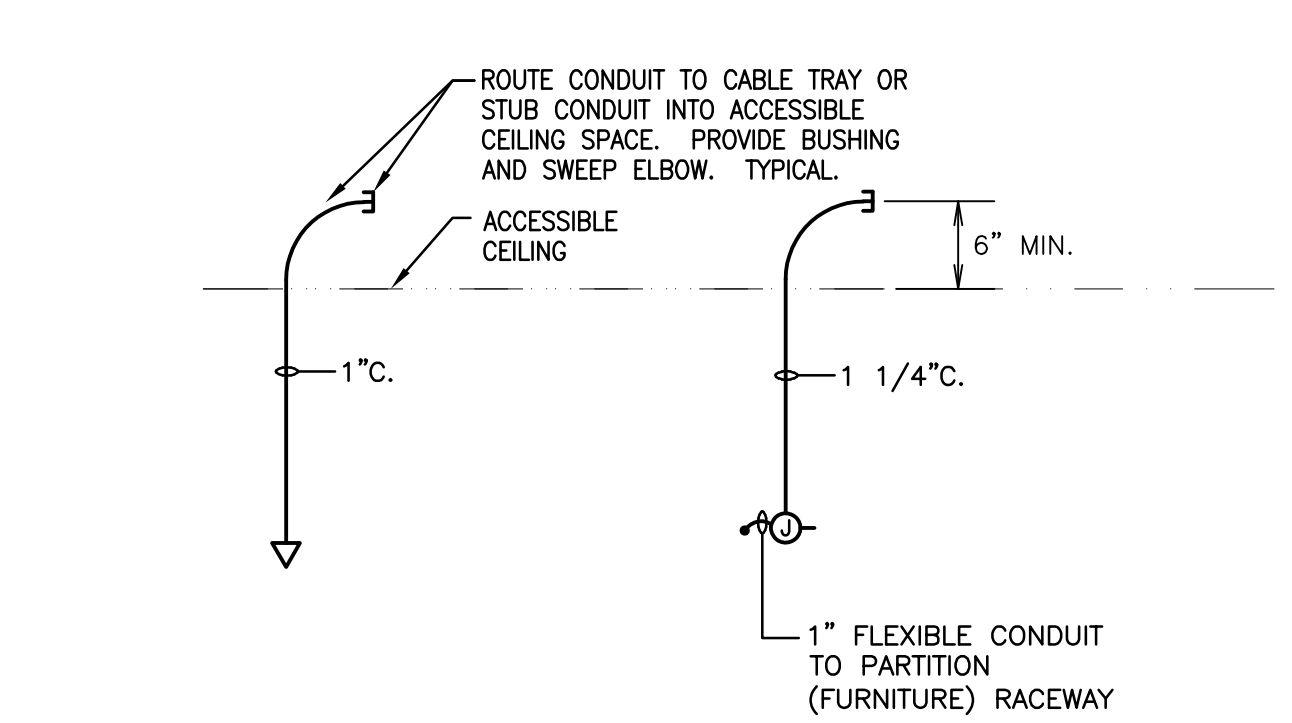
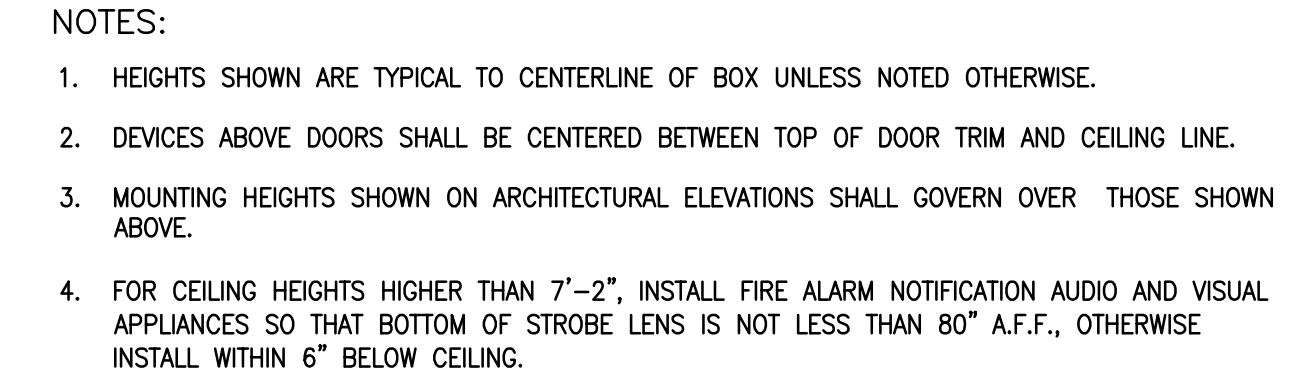
INSERT ATTACHMENT B  
Boulder County – Jail Phase 1 Lighting Controls

INSERT SAM.gov GUIDE



ELECTRICAL LEGEND											
ALL SYMBOLS IN LEGEND MAY NOT NECESSARILY BE USED ON THIS PROJECT											
ABBREVIATIONS AND DESCRIPTIONS											
4'-0"	MOUNTING HEIGHT AFF	(D)	DEDICATED	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MN	MANHOLE	RTU	ROOF TOP UNIT	VDC	VOLTS DIRECT CURRENT
A	AMPS	DP	DISTRIBUTION PANEL	GRC	GALVANIZED RIGID CONDUIT	MTO	MOUNTED	SCA	SHORT CIRCUIT CURRENT AVAILABLE	VFD	VARIABLE FREQUENCY DRIVE
AC	ALTERNATING CURRENT	(E)	EXISTING	H	HUBER DENTON 2774RD PANEL	MTS	MANUAL TRANSFER SWITCH	SPD	SURGE PROTECTIVE DEVICE	WMM	WATT-HOUR METER
AC	ABOVE COUNTER	EC	ELECTRICAL CONTRACTOR	GRC	GALVANIZED RIGID CONDUIT	N	NEUTRAL	SRG	SIGNAL REFERENCE GND	WP	WEATHERPROOF
AFD	ARC FAULT CIRCUIT INTERRUPTER	EF	EXHAUST FAN	HP	HORSE POWER	NC	NORMALLY CLOSED	ST	SHUNT TRIP	WR	WEATHER RESISTANT
AFD	ARC FAULT CIRCUIT INTERRUPTER	EOL	END OF LINE RESISTOR	IG	ISOLATED GROUND	NO	NORMALLY OPEN	TS	TEST SWITCH	WRS	WATER RESISTANT SCHEDULE
AFG	ABOVE FINISHED GRADE	EM	EMERGENCY	KV	KILOVOLT	NO-C	NOT IN CONTRACT	TS	TAMPER RESISTANT		
AHU	AIR HANDLING UNIT	EMT	ELEC. METALLIC TUBING	KVA	KILO VOLT-AMPERE	NO	NORMALLY OPEN	TS	TEST SWITCH		
AIC	AMPERE INTERRUPTING CAPACITY	EPO	EMERGENCY POWER OFF	KVAR	KILOVAR	PA	PREACTION SYSTEM	TTB	TELEPHONE TERMINAL BOARD		
AF	AIR FRAME	EWG	ELECTRIC WATER COOLER	KVA	KILOVOLT-AMPERE	PDU	POWER DISTRIBUTION UNIT	TTT	TELEPHONE TERMINAL CABINET		
AT	AMP TRIP	EX	EXPLOSION PROOF	L	LOW VOLTAGE	PF	POWER FACTOR	UC	UNDERCABINET		
ATS	AUTO TRANSFER SWITCH	F	FUSE OR FRIE	LV	LOW VOLTAGE	# OR PH	PHASE	UF	UNDERFLOOR		
B	BATTERY	FA	FIRE ALARM	M	MONITOR	PT	POTENTIAL TRANSFORMER	UG	UNDERGROUND		
BKR	BREAKER	FCU	FAN COIL UNIT	MC	MECHANICAL CONTRACTOR	PVC	POLYVINYL CHLORIDE	UNO	UNLESS NOTED OTHERWISE		
C	CONDUIT	FDR	FEEDER	MCC	MOTOR CONTROL CENTER	(R)	RELOCATED	UPS	UNINTERRUPTIBLE POWER SUPPLY		
CKT	CIRCUIT	FI	FILM ILLUMINATOR	MDP	MAIN DISTRIBUTION PANEL	(RR)	REMOVE & RELOCATE	V	VOLTS		
CP	CONTROL PANEL	FS	FIRE SUPPRESSION	MS	MAIN DIST. SWITCHBOARD	RM	ROOM	VAC	VOLTS ALTERNATING CURRENT		
CT	CURRENT TRANSFORMER	G	GROUND	MS	MOTOR GENERATOR UNIT	RT	RAINTIGHT				

**TYPICAL DEVICE MOUNTING HEIGHTS**  
 NOT TO SCALE



**TELEPHONE (VOICE)/DATA DIAGRAM**  
 NOT TO SCALE

- NOTES:
- CONDUIT AND BACK BOXES PROVIDED BY ELECTRICAL CONTRACTOR. INSTALL PULL CORD/TAPE IN ALL CONDUITS.
  - COMMUNICATION CABLEING SHALL BE SELF SUPPORTED INDEPENDENTLY FROM STRUCTURE. DO NOT REST ON CEILING TILES, OR CEILING SUSPENSION WIRES.
  - COMMUNICATIONS CABLES AND OUTLETS SUPPLIED BY OTHERS.
  - ALL BACK BOXES SHALL BE A 4-1/16" SQUARE BY 2-1/8" DEEP.

ELECTRICAL GENERAL NOTES											
1. ALL NEW WORK IS SHOWN BY SOLID BOLD LINES. ALL EXISTING WORK IS SHOWN AS LIGHT LINES. DASHED LINES INDICATES REMOVAL.											
2. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. WHATEVER IS CALLED FOR IN EITHER IS BINDING AS THOUGH CALLED FOR IN BOTH.											
3. THE EQUIPMENT SPECIFIED ON THE DRAWINGS HAVE BEEN SELECTED AS THE BASIS OF DESIGN. THE USE OF REVIEWED OR SPECIFIED EQUIPMENTS SHALL BE COORDINATED BY THE CONTRACTOR AS TO SPACE REQUIREMENTS, EQUIPMENT DIMENSIONS AND PERFORMANCE. ANY ADDITIONAL COSTS EITHER DIRECTLY OR INDIRECTLY CAUSED BY EQUALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.											
4. COORDINATE ALL LUMINAIRE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, FIRE PROTECTION, AND ELECTRICAL DRAWINGS.											
5. DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL DESIGN INTENT. ARRANGEMENT AND EXTENT OF SYSTEMS. DO NOT SCALE DRAWINGS NOR USE AS SHOP DRAWINGS. WHEN ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR FIELD COORDINATION OF ALL TRADES, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.											
6. CONTRACTOR SHALL NOT SHUT-OFF/PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH OWNER'S PERSONNEL. CONTRACTOR SHALL PROVIDE A DETAILED M.O.P. AS REQUIRED. DO NOT BEGIN WORK WITHOUT WRITTEN APPROVAL.											
7. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY DIRECTED OTHERWISE.											
8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATED AND INSTALLING SLEEVES, INSERTS AND SUPPORTS AS REQUIRED FOR THIS SCOPE OF WORK AND/OR CORE DRILL REQUIREMENTS. COORDINATE WITH G.C. AND STRUCTURAL ENGINEER AS REQUIRED.											
9. CONTRACTOR SHALL CLOSELY COORDINATE NEW ELECTRICAL WITH ALL NEW AND EXISTING MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL AND STRUCTURAL MEMBERS. REFER TO DIVISION 26 FOR CEILING SPACE ALLOCATION PRIORITIES.											
10. CONTRACTOR SHALL FIELD VERIFY ALL ELECTRICAL ITEMS PRIOR TO (COMMENCING NEW WORK) (SUBMITTING A BID). NO ADDITIONAL COST WILL BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS.											
11. ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT VERSION OF NATIONAL ELECTRIC CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE OR NFPA, INTERNATIONAL MECHANICAL CODE AND INTERNATIONAL PLUMBING CODE, INCLUDING LOCAL BOULDER AMENDMENTS, REFER TO ARCHITECTURAL CODE PLAN.											
12. CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN THE ELECTRICAL SCHEDULES AND AS REQUIRED IN EACH SECTION OF SPECIFICATION TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION OF THESE SAME ITEMS.											
13. CONTRACTOR TO UPDATE PANELBOARD DIRECTORIES WHERE CIRCUITS HAVE BEEN DELETED OR ADDED.											
14. PANEL SCHEDULE INFORMATION AND EXISTING CIRCUITRY WAS TAKEN FROM EXISTING PANEL DIRECTORIES AND PLANS. ACTUAL CONDITIONS MAY VARY. FIELD VERIFY.											
15. CONTRACTOR TO VISIT THE JOB SITE TO SURVEY EXISTING CONDITIONS PRIOR TO BID.											
16. EXISTING ELECTRICAL OUTLET, DEVICE, EQUIPMENT ITEM, LUMINAIRE, ETC., (SHOWN AS DASHED) SHALL BE REMOVED TO THE NEAREST REMAINING OUTLET OR BRANCH CIRCUIT OVER-CURRENT DEVICE. MAKE MODIFICATIONS TO EXISTING REMAINING SYSTEM AS REQUIRED TO MAINTAIN CONTINUITY.											
17. SUPPORT ALL CONDUITS, CABLES, BOXES AND LUMINAIRES FROM STRUCTURE PER NEC 300.11. LAY-IN FIXTURES SHALL BE SUPPORTED WITH TWO #12AWG WIRES FROM OPPOSITE ENDS UNLESS OTHERWISE NOTED.											
18. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW EXACT LOCATIONS OF DEVICES AND EQUIPMENT. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.											
19. ALL RECEPTACLES WITHIN 6 FEET OF A SINK ARE TO BE GFCI TYPE AND GFCI RECEPTACLES SHALL BE IN AN ACCESSIBLE LOCATION PER NEC. WHERE RECEPTACLE IS INACCESSIBLE, PROVIDE A REMOTE GFCI RESET BUTTON IN AN ACCESSIBLE LOCATION.											
20. IDENTIFY JUNCTION BOXES WITH PANEL AND CIRCUIT NUMBER.											
21. ALL EXTERIOR RECEPTACLES TO HAVE IN-USE COVERS.											
22. RECEPTACLES MOUNTED BACK-TO-BACK IN FIRE RATED WALLS SHALL BE PROVIDED WITH A THROUGH-PENETRATION FIRESTOP SYSTEM.											
23. PROTECT FIXTURES THROUGHOUT CONSTRUCTION.											
24. CONNECT ALL EXIT AND EMERGENCY EGRESS LUMINAIRES (DENOTED BY SHADING) TO EXISTING 277-VOLT EMERGENCY EGRESS CIRCUIT SERVING THE AREA.											
25. PROVIDE UNIT PRICE FOR ADDITIONAL EXIT SIGN(S) AND INSTALLATION AS REQUIRED BY INSPECTOR (AHJ).											
26. PROVIDE DESIGN-BUILD FIRE ALARM SYSTEM TO MATCH EXISTING BUILDING SYSTEM BY APPROVED VENDOR.											
27. PROVIDE INDIVIDUAL NEUTRALS AS REQUIRED BY NEC ON ALL NEW AND AFFECTED EXISTING CIRCUITS.											

COMMISSIONING NOTES											
1. THIS PROJECT IS UNDER THE 2017 COBECC AND SHALL INCLUDE COMMISSIONING OF THE ELECTRICAL AND LIGHTING SYSTEMS AS REQUIRED BY SECTION C407 OF THE 2017 COBECC.											
2. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALLOWANCE IN THEIR BID ASSOCIATED WITH THE COMMISSIONING PROCESS.											
3. THE COMMISSIONING SCOPE SHALL INCLUDE, BUT IS NOT LIMITED TO, ATTENDING COMMISSIONING MEETINGS, COMPLETING PREFUNCTIONAL CHECKLISTS, DEMONSTRATING SYSTEM PERFORMANCE AND ADDRESSING COMMUNICATING AUTHORITY REVIEW COMMENTS.											
4. A FINAL COMMISSIONING REPORT SHALL BE PROVIDED PRIOR TO BUILDING TURNOVER WHICH INCLUDES DOCUMENTATION OF ALL TESTS, RESULTS, CORRECTIVE MEASURES TAKEN, ETC. COMMISSIONING REPORT SHALL BE IN COMPLIANCE WITH THE REFERENCED CODES ABOVE.											

ELECTRICAL DRAWING LIST	
Sheet Number	Sheet Title
E0.0	ELECTRICAL GENERAL INFORMATION
E0.2	ELECTRICAL ONE-LINE DIAGRAM
E0.3	ENERGY CONSERVATION CODE
E1.0	ELECTRICAL SITE PLAN
E1.1	ELECTRICAL SITE PHOTOMETRIC
E2.0	POWER DEMOLITION PLAN
E2.1	FIRST FLOOR POWER-SYSTEMS PLAN
E2.2	SECOND FLOOR POWER-SYSTEMS PLAN
E3.0	LIGHTING DEMOLITION PLAN
E3.1	FIRST FLOOR LIGHTING PLAN
E3.2	SECOND FLOOR LIGHTING PLAN

PROJECT NARRATIVE	
PROVIDE POWER TO NEWLY CONSTRUCTED ADDITION TO BOULDER COUNTY JAIL BETWEEN AREAS A AND B.	

CONTACT LIST		
<b>ARVADA OFFICE</b> 5426 WARD ROAD SUITE 200 ARVADA, CO 80002 303-422-7400	<b>COLORADO SPRINGS OFFICE</b> 10507 NEW ALLEGIANCE DRIVE SUITE 400 COLORADO SPRINGS, CO 80921 719.533.1112	<b>TAMPA OFFICE</b> 12450 ROOSEVELT BLVD. N. SUITE 305 ST. PETERSBURG, FL 33716 727.655.0458
<b>PROJECT ENGINEER</b> HAL RIGLEY 303.422.7400 X229 HRIGLEY@BCER.COM	<b>PROJECT MANAGER</b> SHANE NEWMAN 303.422.7400 X204 SNEWMAN@BCER.COM	

DATE: JANUARY 4, 2019  
 SCALE: NO SCALE

DRAWN BY: HTR  
 CHECKED BY: SCS

**DRAWING TITLE**  
 ELECTRICAL GENERAL INFORMATION

DATE: JANUARY 4, 2019  
 SCALE: NO SCALE

**E0.0**

Table with columns: TYP, VA, DESCRIPTION, P, CB, OHT, PH, OHT, CB, P, DESCRIPTION, VA, TYP. Includes summary of phase loading and demand load.

Table for PANEL: LAE2 showing equipment schedule with columns: TYP, VA, DESCRIPTION, P, CB, OHT, PH, OHT, CB, P, DESCRIPTION, VA, TYP. Includes summary of phase loading.

Table for PANEL: LAE2 showing equipment schedule with columns: TYP, VA, DESCRIPTION, P, CB, OHT, PH, OHT, CB, P, DESCRIPTION, VA, TYP. Includes summary of phase loading.

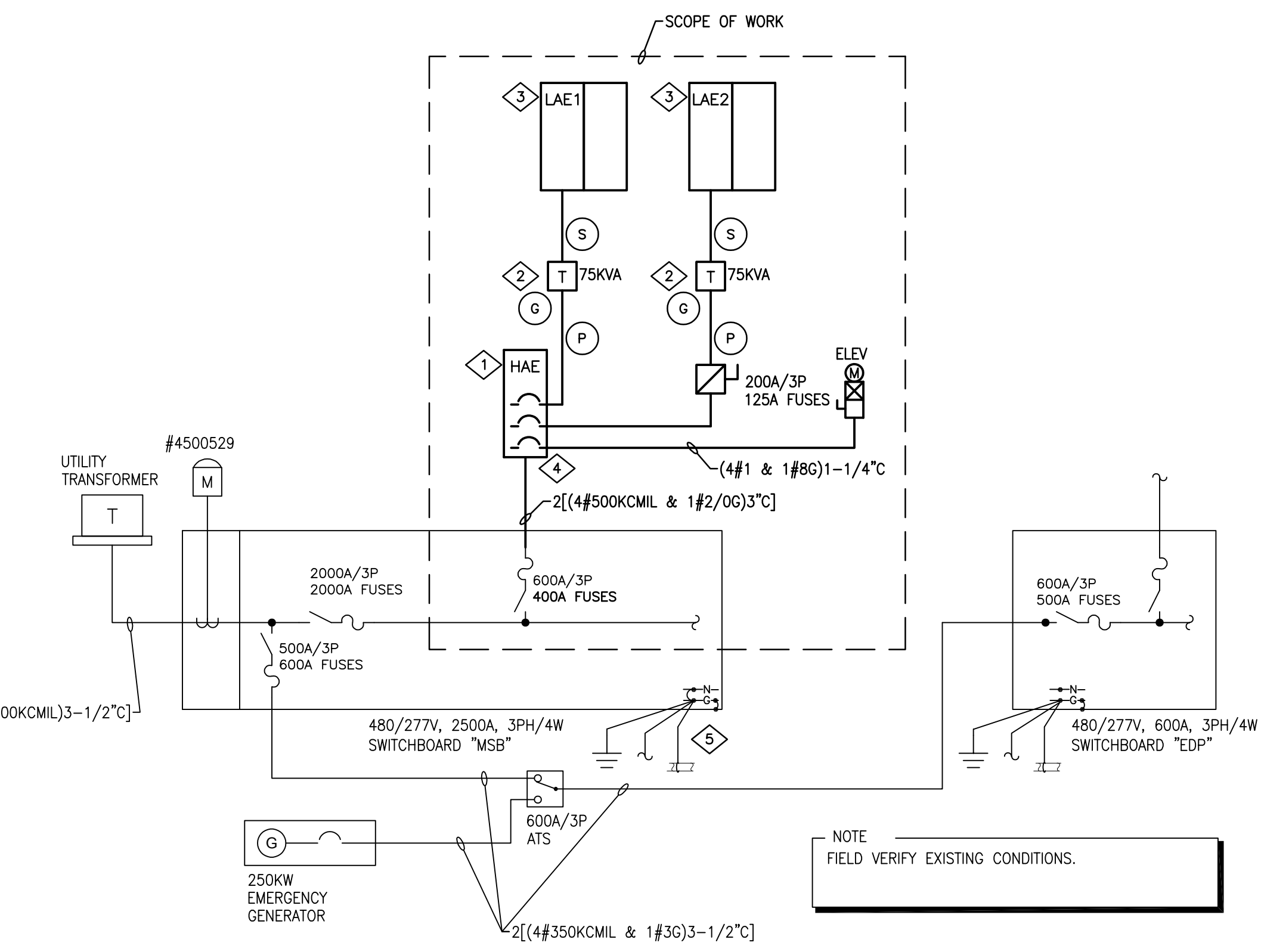
Table for PANEL: LAE1 showing equipment schedule with columns: TYP, VA, DESCRIPTION, P, CB, OHT, PH, OHT, CB, P, DESCRIPTION, VA, TYP. Includes summary of phase loading.

Table for PANEL: LAE1 showing equipment schedule with columns: TYP, VA, DESCRIPTION, P, CB, OHT, PH, OHT, CB, P, DESCRIPTION, VA, TYP. Includes summary of phase loading.

WORK NOTES: 1 NEW 277/480V PANEL TO BE INSTALLED. 2 NEW TRANSFORMER TO BE INSTALLED. SEE DRY TYPE TRANSFORMER SCHEDULE FOR MORE INFORMATION.

LOAD SUMMARY: EXISTING MEASURED LOAD \*\*1.25 = 474 KVA. TOTAL LOAD ADDED = 191.99 KVA. TOTAL LOAD ON 'MSB' = 665.39 KVA. TOTAL AMPERAGE ON 'MSB' @ 480V, 3Ø = 800.34A.

Table for DRY TYPE TRANSFORMER SCHEDULE with columns: KEY, KVA, AMPS, P, FEEDER, O.C. PROTECTION, AMP, S, FEEDER, O.C. PROTECTION, QED. ELECTRODE, C. Includes notes on grounding and conductor sizes.



ELECTRICAL ONE-LINE DIAGRAM NO SCALE

Table for FAULT CURRENT SCHEDULE with columns: Node ID, Node Description, Node Type, Line Voltage, From, To, Utility Avail MVA, Xline Size, Run, Feeder Information, Conductor Type, Conduit Type, Sym MS Fault Current, Pw Unit R Value, Pw Unit JK Value, X/R Ratio.

Table for EQUIPMENT SCHEDULE with columns: MECH. DESIGNATION, EQUIPMENT DESCRIPTION, VOLTS, PH, HP, MCA, KW, KVA, DISC. SIZE, PANEL DESIGNATION, CB SIZE, MFS, FEEDER SIZE, REMARKS.

Table for LUMINAIRE SCHEDULE with columns: KEY, QTY., LAMPS, TYPE, BALLAST, DESCRIPTION, VOLT, FINISH, MOUNTING, TYPE, DEPTH, MANUFACTURER, MODEL, VA, NOTES.

NOTES: 1. VERIFY ARROW DIRECTION. 2. WET LOCATION LISTED. VERIFY ALL LUMINAIRE REQUIREMENTS WITH ARCHITECT PRIOR TO ORDERING.

**Commercial (Lighting ONLY)  
Prescriptive Measures Checklist**

Applies to New Buildings and Additions with a construction valuation of < \$500,000; Alterations and Repairs are determined by construction valuations and should refer to Table C401.2.2.

Project Address: BOULDER COUNTY DETENTION CENTER, ENTRY LOBBY ADMINISTRATION ADDITION BOULDER, COLORADO 80501  
Date: 8/17/2018  
DIRECTIONS: Compliance with these measures is required if the project uses the Prescriptive Compliance Path. Please complete this checklist and include it on an "Energy Conservation Code" sheet within the plans being submitted for permit application. Projects completed prescriptively also must meet Mandatory Measures and should include the Mandatory Measures Checklist as well.

Code Section	Focus Area	Code Description	Plan Drawing or Reference to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on plans/specs)	Plans Examiner Notes (in office use)					
<b>INTERIOR LIGHTING</b>										
C401.5	Interior Lighting Power	Total connected lighting power calculated under Section C401.3.1 must be no greater than the interior lighting power calculated under Section C405.5.1.				<input type="checkbox"/> Field Verify				
		ROOM NAME	COBCEC Space Description	Space SQ FT	COBCEC Allowed LPD	Fixture Type	Number of Fixtures	Watts per Fixture	Total Watts per Room	Design LPD (W/SF)
		Lobby	Lobby	400	0.90		4	20.2	80.8	0.203
		Reception	Lobby	373	0.90		8	27.6	238.8	0.70792326
		Corridor/Hall/Walking	Corridor/Transition	2658	0.58		36	20.2	727.2	0.27389165
		Corridor/Hall/Walking	Corridor/Transition	336	0.58		7	27.6	193.2	0.575
		Selfport	Corridor/Transition	117	0.58		2	20.2	40.4	0.34537051
		Mail/Copy/Supplies/Storage	Storage	279	0.63		5	20.2	101.0	0.36207469
		Locker Rooms	Storage	116	0.63		1	20.2	20.2	0.1737444
		Storage	Storage	150	0.63		3	27.6	82.8	0.552
		Exercise	Office Area	394	0.63		12	20.2	242.4	0.61532286
		Reception/Scan	Office - Enclosed	158	1.00		1	20.2	20.2	0.12933045
		Conference/Meeting/Multipurpose	Conference/Meeting	373	1.13		3	21.5	64.5	0.17421405
		Lecture	Reception	44	0.75		1	20.2	20.2	0.14645
		Restrooms	Restrooms	476	0.88		14	27.6	386.4	0.81179470
		Public/Visitor Waiting Rooms	Public/Staff Lounge	733	0.75		14	21.5	301.0	0.41054
		Offices - Open	Office - Open Plan	736	0.80		17	20.2	343.4	0.46657687
		Offices - Enclosed	Office - Enclosed	1117	1.00		16	20.2	323.2	0.28946464
		IT	Office - Enclosed	65	1.00		1	27.6	27.6	0.42518165
		Electrical Room	Electrical/Mechanical	156	0.42		2	21.5	43.0	0.28398574
		Elevator	Electrical/Mechanical	138	0.42		2	19.0	38.0	0.28398574
		Stair	Stair	194	0.89		4	27.6	110.4	0.56927105
		Office	Office	400 (200 per R. No.)	0		16	27.6	441.6	0.36987146
Break Room	Drinking Bar/Lounge/Tea	950	0.90		12	20.2	242.4	0.25515785		
Training/Meeting	Classroom/Training	1165	1.00		10	20.2	202.0	0.17249049		
Training/Meeting	Classroom/Training	22	1.00		1	27.6	27.6	0.41054		
Locker Rooms	Locker Room	1099	0.75		20	20.2	404.0	0.36760913		
Locker Rooms	Locker Room	381	0.75		16	27.6	441.6	1.1677098		

**Commercial (Lighting ONLY)  
Mandatory Measures Checklist**

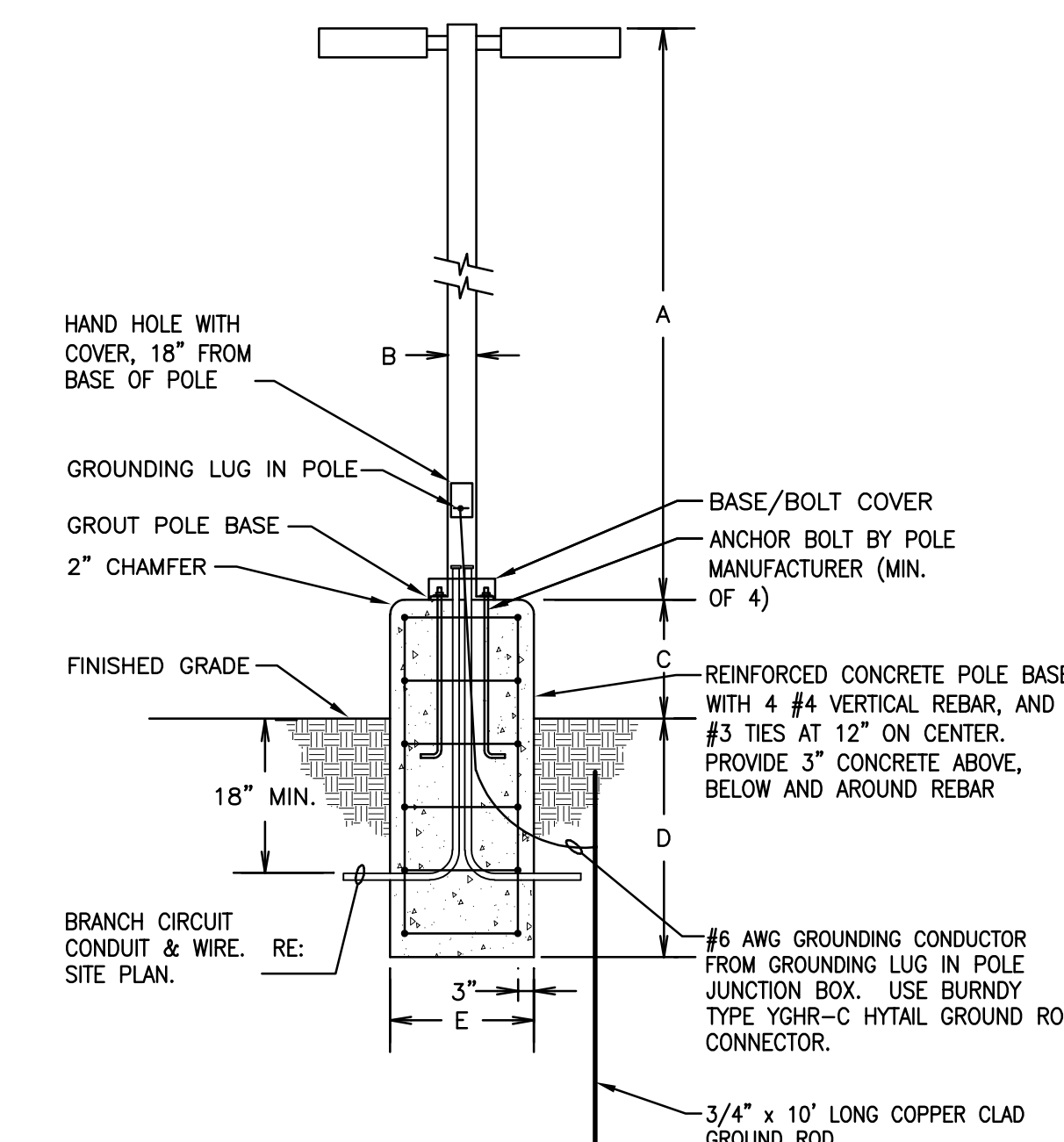
Applies to All New Buildings, Additions, Alterations and Repairs which require a permit from the City.

Project Address: BOULDER COUNTY DETENTION CENTER, ENTRY LOBBY ADMINISTRATION ADDITION BOULDER, CO 80501  
Date: 8/17/2018  
DIRECTIONS: Compliance with these Mandatory Measures is required whether the project is demonstrating compliance through the Performance or Prescriptive Path. Please complete this checklist and include it on an "Energy Conservation Code" sheet within the plans being submitted for permit application.

Code Section	Focus Area	Code Description	Plan Drawing or Reference # to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on plans/specs)	Plans Examiner Notes (in office use)
<b>Lighting</b>					
C405.2.1	Lighting Control	Controls shall meet the provisions of C405.2.1-C405.2.4. Manual lighting controls are required for interior spaces and must be located within the area served by the controls or be a remote switch that identifies the lights served and indicates their status.		OPEN OFFICE AREA LIGHTING CONTROL LAYOUT COMPLIES WITH C405.2.1-C405.2.4.	
C405.2.1.1	Lighting Control	Each area that is required to have a manual control shall also allow the occupant to reduce the connected lighting load in a measurably uniform illumination pattern by at least 50 percent. Lighting reduction shall be achieved by one of the following or other approved method: 1) Controlling all lamps or luminaires; 2) Dual switching of alternate rows of luminaires, alternate luminaires or alternate lamps; 3) Switching the middle lamp luminaires independently of the outer lamps; or 4) Switching each luminaire or each lamp.		GENERAL NOTE 5 CALLS FOR DIMMING CAPACITY ON LOW VOLTAGE SWITCHES SERVING OPEN OFFICE AREAS. SMALLER OFFICES AND CONFERENCE ROOMS ARE EXCEPTED FOR USE OF OCCUPANCY SENSOR WITHIN HOODS.	<input type="checkbox"/> Field Verify
C405.2.1.2	Light Reduction Controls	Each area that is required to have a manual control shall also allow the occupant to reduce the connected lighting load in a measurably uniform illumination pattern by at least 50 percent. Lighting reduction shall be achieved by one of the following or other approved method: 1) Controlling all lamps or luminaires; 2) Dual switching of alternate rows of luminaires, alternate luminaires or alternate lamps; 3) Switching the middle lamp luminaires independently of the outer lamps; or 4) Switching each luminaire or each lamp.		GENERAL NOTE 5 CALLS FOR DIMMING CAPACITY ON LOW VOLTAGE SWITCHES SERVING OPEN OFFICE AREAS. SMALLER OFFICES AND CONFERENCE ROOMS ARE EXCEPTED FOR USE OF OCCUPANCY SENSOR WITHIN HOODS.	<input type="checkbox"/> Field Verify
C405.2.2.1	Automatic Lighting Shutoff	Automatic time switch controls shall be installed to control lighting in all areas of the building. The automatic time switch control device shall include an override switching device that complies with the following: 1. The override switch shall be in a readily accessible location; 2. The override switch shall be located where the lights controlled by the switch are visible; or the switch shall provide a mechanism which announces the area controlled by the switch; 3. The override switch shall permit manual operation; 4. The override switch, when initiated, shall permit the controlled lighting to remain on for a maximum of 2 hours; and 5. Any individual override switch shall control the lighting for a maximum area of 5,000 square feet.		LOW VOLTAGE SWITCHES AND OCCUPANCY SENSORS FUNCTION IN A SYSTEM TO MEET REQUIREMENT.	<input type="checkbox"/> Field Verify
C405.2.2.2	Occupancy Sensors/Space Control	Occupancy sensors shall be installed in all classrooms, conference/meeting rooms, employee lunch and break rooms, private offices, restrooms, storage rooms and janitorial closets, and other spaces 300 square feet or less enclosed by floor-to-ceiling height partitions. These automatic control devices shall be installed to automatically turn off lights within 30 minutes of all occupants leaving the space, and shall either be manual on or shall be controlled to automatically turn the lighting on to not more than 50 percent power.		OCCUPANCY SENSORS INSTALLED IN ALL ROOM TYPES LISTED.	<input type="checkbox"/> Field Verify
<b>Lighting Continued</b>					
C405.2.2.3	Daylight Zone Control	Daylight zones shall be designed such that lights in the daylight zone are controlled independently of general area lighting and are controlled in accordance with C405.2.2.1.1 or C405.2.2.1.2.		DAYLIGHT ZONE CONTROL ADDED VIA PHOTOCELL TO PENETRATION ZONES BY BOTH WINDOWS AND SKYLIGHT.	<input type="checkbox"/> Field Verify
C405.2.2.3.1	Multi-level Control	Where multi-level controls are required, the general lighting in the daylight zone shall be separately controlled by at least one multi-level lighting control to reduce power to no greater than 50% of its rated power.			<input type="checkbox"/> Field Verify

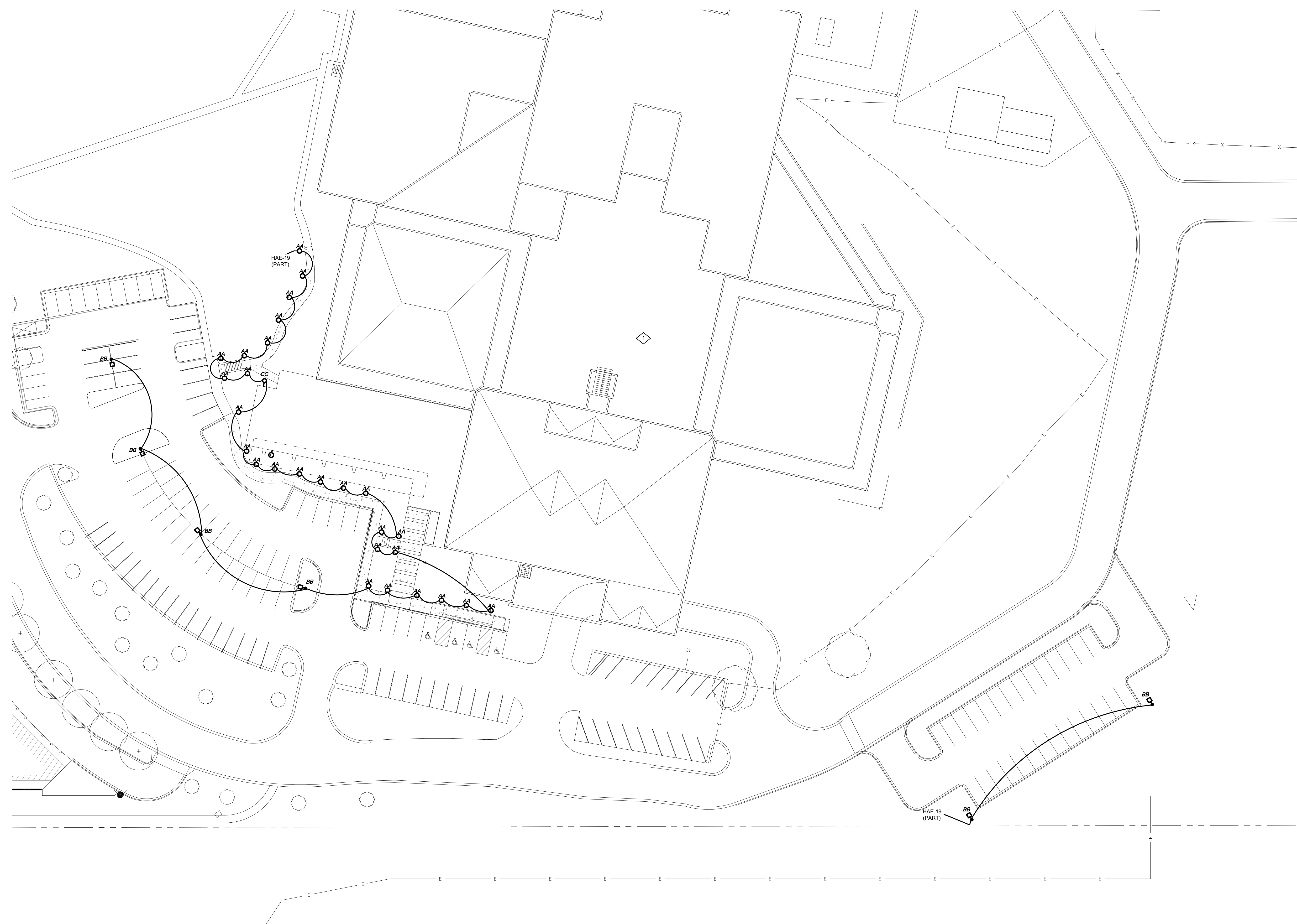
Code Section	Focus Area	Code Description	Plan Drawing or Reference # to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on plans/specs)	Plans Examiner Notes (in office use)
C405.2.3	Additional Control	Display, accent lighting and Display case lighting shall be controlled by a dedicated control. Hotel and motel sleeping units shall have a master control device at the main room entry. Supplemental task lighting shall have a control device integral to the luminaires or be controlled by a wall mounted device. Lighting for recreational applications, such as plant growth and food warming shall be controlled by a dedicated control. Lighting equipment for sale or demo shall be controlled by a dedicated control.	N/A		<input type="checkbox"/> Field Verify
C405.2.4	Exterior Lighting Control	Lighting not designed for dusk to dawn operation shall be controlled by a control of photosensor and time switch or an astronomical time switch. Dusk to dawn lighting shall be controlled by an astronomical time switch or photosensor.			<input type="checkbox"/> Field Verify
C405.3	Tandem Wiring	Fluorescent luminaires equipped with one, three or odd numbered lamp configurations, that are recess mounted within 5/8" center to center and that are pendant or surface mounted within 1 ft edge to edge must be tandem wired.	N/A		<input type="checkbox"/> Field Verify
C405.4	Exit Signs	Internally illuminated exit signs shall not exceed 5 W per side.	E0.3	SPECIFIED EXIT SIGN RATED FOR SW.	<input type="checkbox"/> Field Verify
C405.6.1	Exterior Building Grounds Lighting	All exterior building grounds luminaires that operate at greater than 100 watts shall contain lamps having a minimum efficacy of 60 lumens per watt unless the luminaire is controlled by a motion sensor or qualifies for one of the exceptions under Section C405.6.3.	N/A		<input type="checkbox"/> Field Verify
C405.6.2	Exterior Building Lighting Power	Total exterior lighting power allowance for all exterior applications is the sum of the base site allowance plus the individual allowances for areas that are to be illuminated per Table C405.6.2(2). Trackloads are allowed only among exterior lighting applications listed in the table.	E1.0	EXTERIOR AREA DESIGNATED AS ZONE 2 ALLOWS FOR LOW BASE ALLOWANCE PLUS ABOUT 300W FOR PLAZA AREA OF 3000 SQUARE FEET. TOTAL OUTDOOR LIGHTING LOAD IS 500W.	<input type="checkbox"/> Field Verify

SYSTEM COMMISSIONING					
C407.3	Lighting System Functional Testing	Controls for automatic lighting systems shall comply with Section C407.3.	E0.0	COMMISSIONING NOTES CALL OUT FOR COMPLIANCE WITH COBCEC STANDARDS.	<input type="checkbox"/> Field Verify
<b>POWER</b>					
C405.7	Electrical energy consumption	In buildings having individual dwelling units, provisions shall be made to determine the electrical energy consumed by each tenant by separately metering individual dwelling units.	N/A		<input type="checkbox"/> Field Verify



NOTES:  
1. WHEN POLE BASE TOP IS AT THE GROUND LEVEL, BASE DEPTH TO BE EQUAL TO "D" + 2".  
2. BASE DIMENSIONS ARE CALCULATED FOR LUMINAIRE(S) WITH AN EPA OF 6.0.  
3. REFER TO FIXTURE SCHEDULE FOR POLE HEIGHT.

HEIGHT	SIZE	BASE		
		ABOVE GROUND	BELOW	DIAMETER
A	B	C	D	E
20'	5"x5"	3'-0"	7'-0"	2'-0"



**ELECTRICAL SITE PLAN**  
SCALE: 1" = 30'-0"  
15' 0 15' 30' 60'

**GENERAL NOTES**

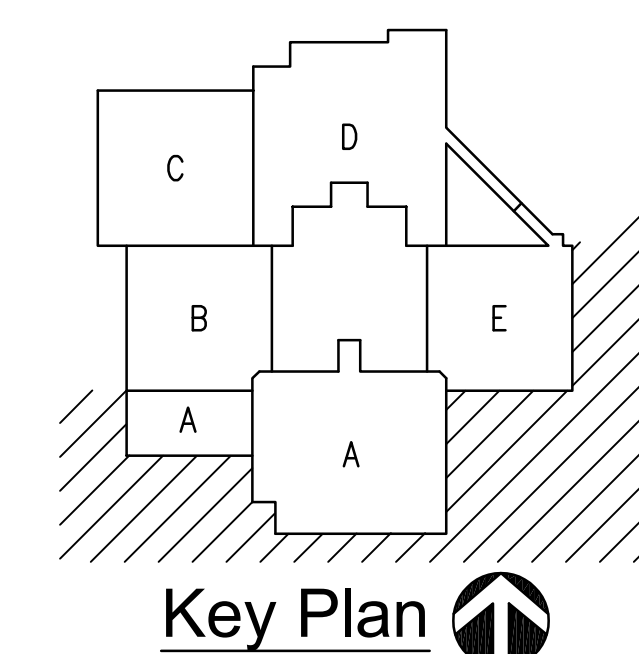
1. LIGHT TEXT AND LIGHT LINES INDICATE EXISTING. DARK TEXT AND SOLID LINES INDICATE NEW WORK.

**WORK NOTES**

1. ALL NEW EXTERIOR LIGHTING TO BE CONTROLLED BY PHOTOCELL MOUNTED ON ROOF OR EXISTING COBECC-COMPLIANT EXTERIOR LIGHTING CONTROL SYSTEM. COORDINATE EXACT PHOTOCELL LOCATION WITH MANUFACTURER'S RECOMMENDATIONS.

KEY	LAMPS		BALLAST QTY.	DESCRIPTION	VOLT	FINISH	MOUNTING		MANUFACTURER	MODEL	VA	NOTES
	QTY.	TYPE					TYPE	DEPTH				
AA	1	LED	-	EXTERIOR BOLLARD	277	BLACK	GROUND	-	RAB	BOLEDR12-4000K-277	12	
BB	1	LED	-	EXTERIOR POLE LIGHT	277	BLACK	POLE	20'	BEACON LIGHTING BY HUBBELL	VP-L-64NB-135-3K-TSR-UW	138	
CC	1	LED	-	EXTERIOR ACCENT LIGHT	277	BLACK	SURFACE	-	EATON	XTOR6B	58	

NOTES:  
VERIFY ALL LUMINAIRE REQUIREMENTS WITH ARCHITECT PRIOR TO ORDERING.



DRAWN: HTR  
CHECKED: SCS

**DRAWING TITLE**  
ELECTRICAL SITE PLAN

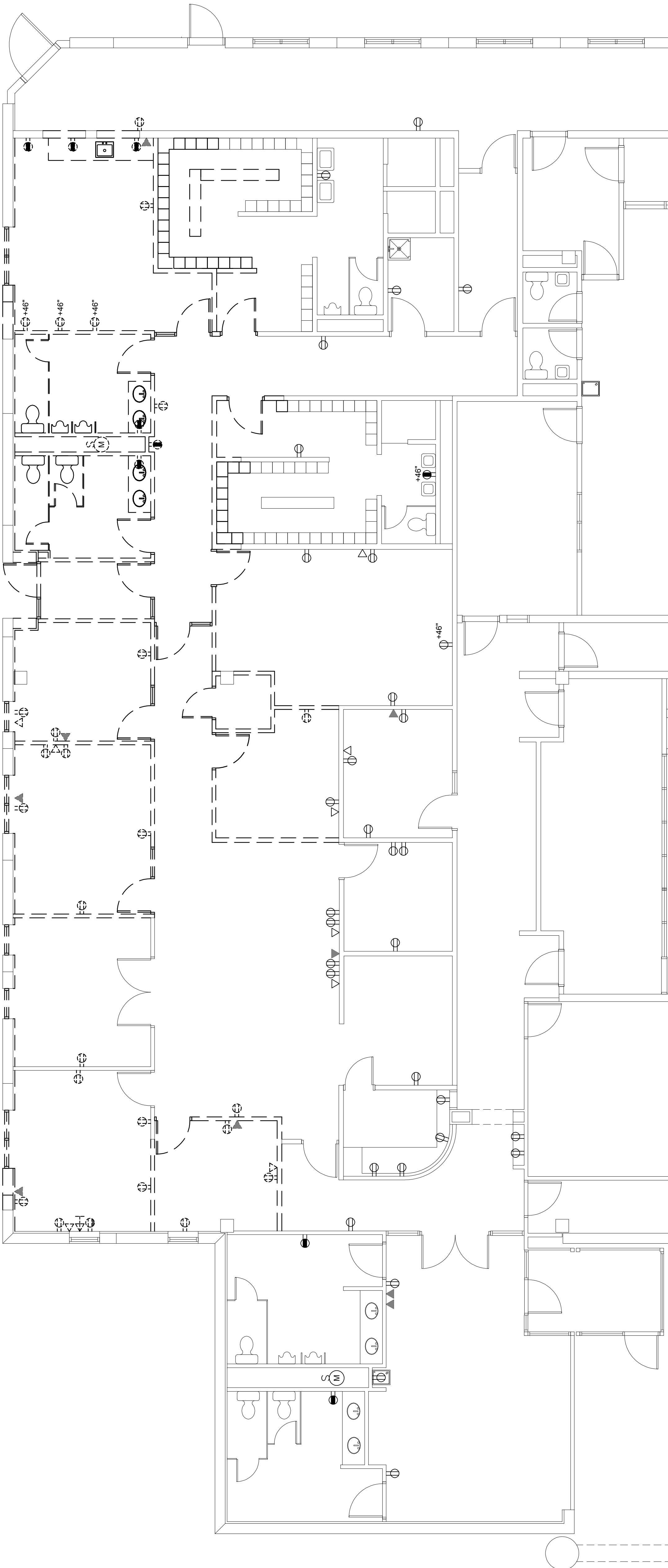
DATE: JANUARY 4, 2019

SCALE: NO SCALE

ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES.  
ALL DIMENSIONS SHOWN ON THIS DRAWING AND ALL OTHER WORK PRODUCT OF THE ENGINEER FOR THIS PROJECT ARE THE PROPERTY OF REILLY JOHNSON ARCHITECTURE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER AND THE PROJECT IS COMPLETED ON 09/11/2019. IN THE EVENT OF A CHANGE IN THE ENGINEER'S FIRM, THE INTELLECTUAL PROPERTY OF THIS PROJECT WILL REMAIN THE PROPERTY OF REILLY JOHNSON ARCHITECTURE. THE ENGINEER SHALL BE AT THE CLIENT'S RISK AND THE CLIENT AGREES TO HOLD REILLY JOHNSON ARCHITECTURE AND ALL OTHER ENGINEERS, ARCHITECTS, CONTRACTORS, AND EMPLOYEES INDEMNIFIED FROM ALL CLAIMS, DAMAGES, AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF UNAUTHORIZED REUSE OF THE ENGINEER'S WORK PRODUCT OF SERVICE BY THE CLIENT OR BY OTHERS ACTING THROUGH THE CLIENT.

XREFS=(M\3042\16\_X2-SITE\_XC-LIG-SITE) Layout=(E1.0 ELECTRICAL SITE PLAN) Electrical Site PLAN.dwg SEP 17, 2016 3:43PM HIRIGLEY  
D:\SCALE=1"=30'-0"\\f3\147003\dwg\Boulder County Jail Area A Expansion\Sheets\Electrical\E1.0 Electrical Site PLAN.dwg

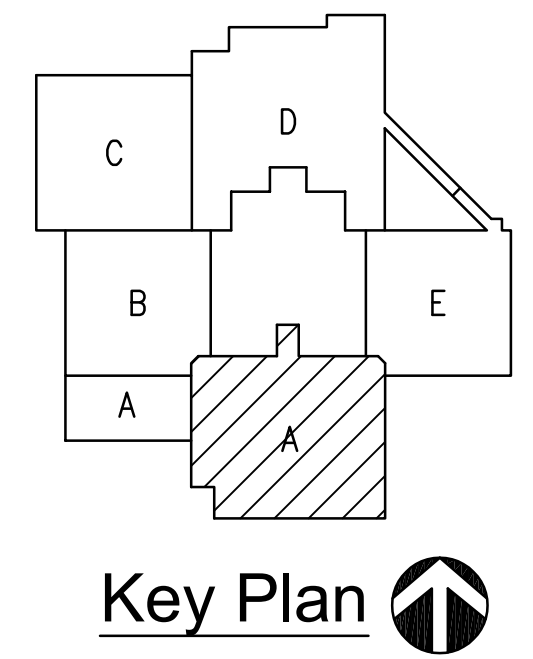
No.	Revision Description	Date
1	ADD SCHEDULE 1	9/18/18
3	MINOR MOD TECH DOC MODIFICATIONS	1/4/19



**GENERAL NOTES**

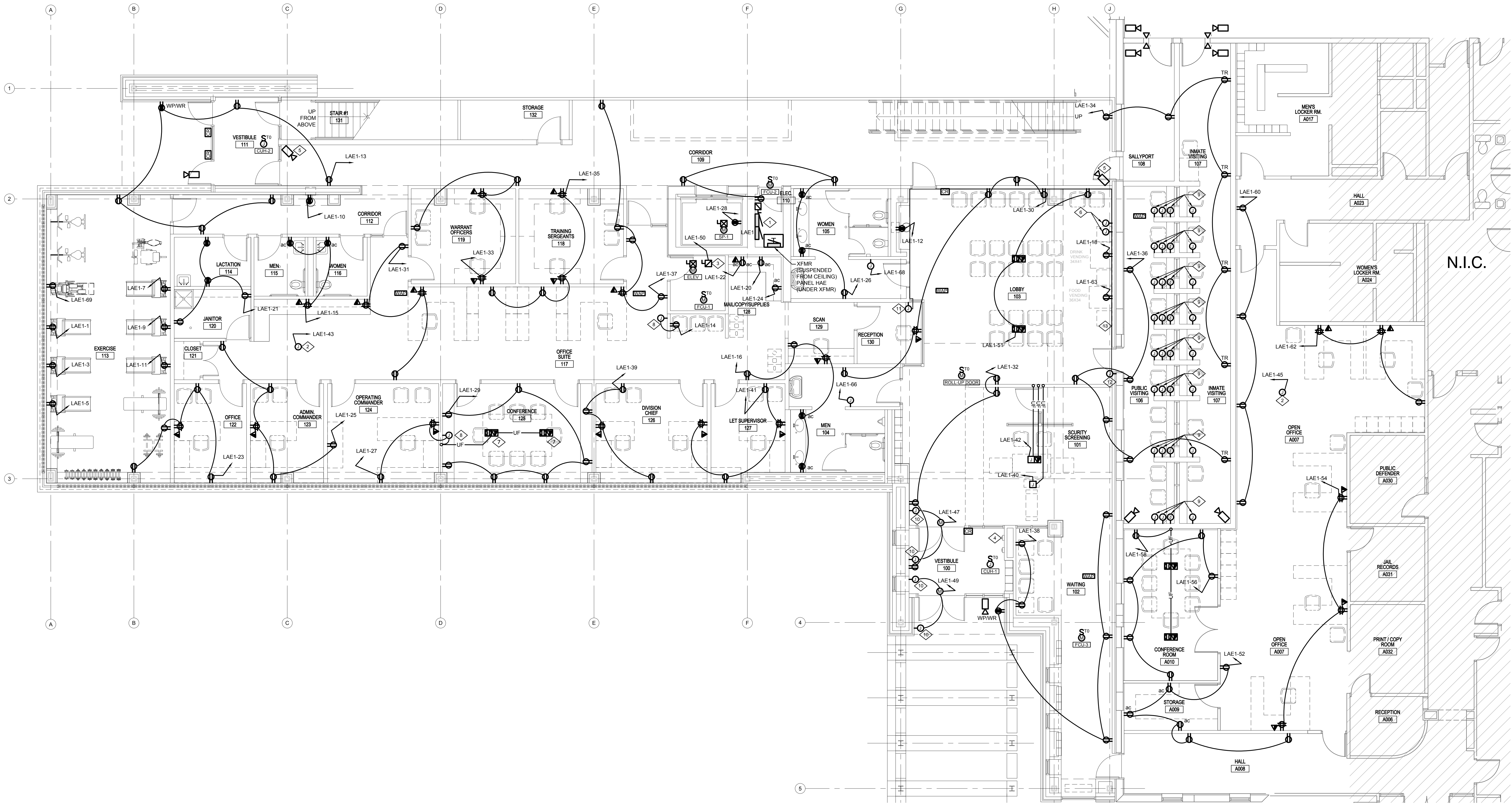
1. PROVIDE ELECTRICAL REMOVAL OF ALL EQUIPMENT, GEAR, DEVICES, CONDUIT, AND WIRING WITHIN THE SCOPE OF WORK. ALL CONDUIT AND WIRING TO BE REMOVED BACK TO SOURCE.
2. THE OWNER SHALL BE GIVEN THE OPPORTUNITY TO MAINTAIN POSSESSION OF ANY ELECTRICAL GEAR, DEVICES, PARTS, OR LUMINAIRES. ANYTHING REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF IN A LEGAL MANNER.

**POWER DEMOLITION PLAN**  
SCALE: 3/16" = 1'-0"  
0' 4' 10'



OWNERSHIP OF DOCUMENTS:  
ALL DRAWINGS, SPECIFICATIONS AND OTHER WORK PRODUCT OF THE ENGINEER FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE FOR THIS PROJECT ONLY AND SHALL REMAIN THE PROPERTY OF THE ENGINEER UNLESS THE PROJECT IS COMPLETED OR THE ENGINEER IS ADVISED BY THE OWNER OF ANY OF THE INSTRUMENTS OF SERVICE OF THE ENGINEER BY THE OWNER OF EXTENSION OF THIS PROJECT WITHOUT WRITTEN PERMISSION OF THE ENGINEER SHALL BE AT THE OWNER'S RISK AND THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF UNAUTHORIZED REUSE OF THE ENGINEER'S INSTRUMENTS OF SERVICE BY THE OWNER OR BY OTHERS ACTING THROUGH THE OWNER.

XREFS=XX-30x42-TB, XX-1-DEMIG, XE--PMR-DEMIG, Layouts\E2.0 POWER DEMOLITION PLAN.dwg, Expansion\Sheets\Electrical\E2.0 POWER DEMOLITION PLAN.dwg, AUG 9, 2018 11:18AM RELECFORD



**FIRST FLOOR POWER-SYSTEMS PLAN**  
SCALE: 3/16" = 1'-0"

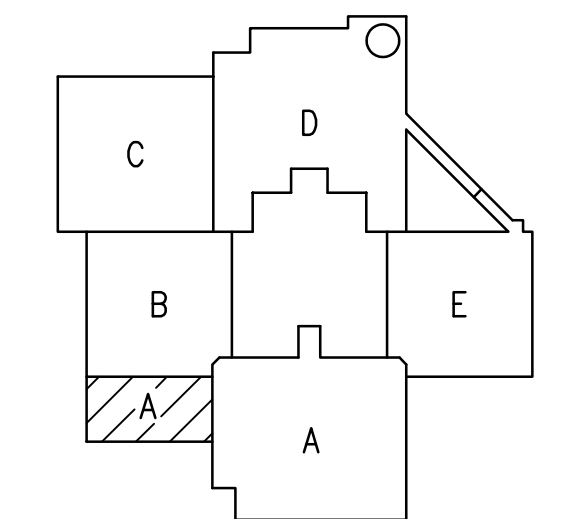


**GENERAL NOTES**

- LIGHT TEXT AND LIGHT LINES INDICATE EXISTING. DARK TEXT AND SOLID LINES INDICATE NEW WORK.
- EACH BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS ARE NOT PERMITTED IN MULTIPLE CIRCUIT HOMERUNS.
- REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS AND LOCATIONS.

**WORK NOTES**

- 1. NEW PANEL HAE TO BE FED FROM SPARE SWITCH FROM DISTRIBUTION PANEL "MSB" LOCATED IN AREA D ROOM D153. APPROXIMATE LOCATION OF D153 IS DENOTED BY A CIRCLE ON THE KEY PLAN BELOW. NEW PANEL LAE1 TO BE FED FROM PANEL HAE VIA CEILING-MOUNTED TRANSFORMER.
- 2. PROVIDE JUNCTION BOX FOR TEMPERATURE CONTROLS.
- 3. COORDINATE ELEVATOR MACHINE ROOM EQUIPMENT LAYOUT WITH THYSSENKRUPP SHOP DRAWING, JOB 1511-7-01A, SHEET 6 OF 7.
- 4. COORDINATE WITH INTERCOM SUPPLIER FOR EXACT BACKBOX REQUIREMENTS.
- 5. PROVIDE ON A SEPARATE MONITORING SYSTEM NOT ON ACCESS CONTROL USE FOR SECURITY CAMERAS WITHIN CORRIDOR. VERIFY WITH ARCHITECT SPECIFIC MOUNTING HEIGHTS AND EXACT LOCATIONS.
- 6. PROVIDE FACELESS GFCI RECEPTACLE AT JUNCTION BOX. FACELESS GFCI TO SERVE VENDING MACHINE/REFRIGERATOR IN BREAK ROOM.
- 7. PROVIDE WIREMOLD RFB9 SERIES FLOOR BOX (12 5/8" L X 14 3/4" W) OR SIMILAR. PROVIDE (4) DATA PORTS AT EACH FLOOR BOX.
- 8. PROVIDE A WALL BOX FOR A SINGLE GANG WALLBOX FOR (FUTURE) DATA, A SINGLE GANG WALLBOX FOR (FUTURE) AV, AND DUPLEX RECEPTACLE. MOUNT AT 7'-0" AFF.
- 9. PROVIDE (4) JUNCTION BOXES WITH 1" CONDUIT FEEDING EACH BOX FOR (FUTURE) LOW VOLTAGE DEVICES. COORDINATE EXACT REQUIREMENTS WITH OWNER IT TEAM.
- 10. PROVIDE JUNCTION BOX FOR ADA DOOR OPERATOR.
- 11. PROVIDE JUNCTION BOX FOR PUSHBUTTON.
- 12. PROVIDE JUNCTION BOX FOR DOOR RELEASE HARDWARE.
- 13. PROVIDE LOW VOLTAGE CABLING IN 3/4" C.



Key Plan

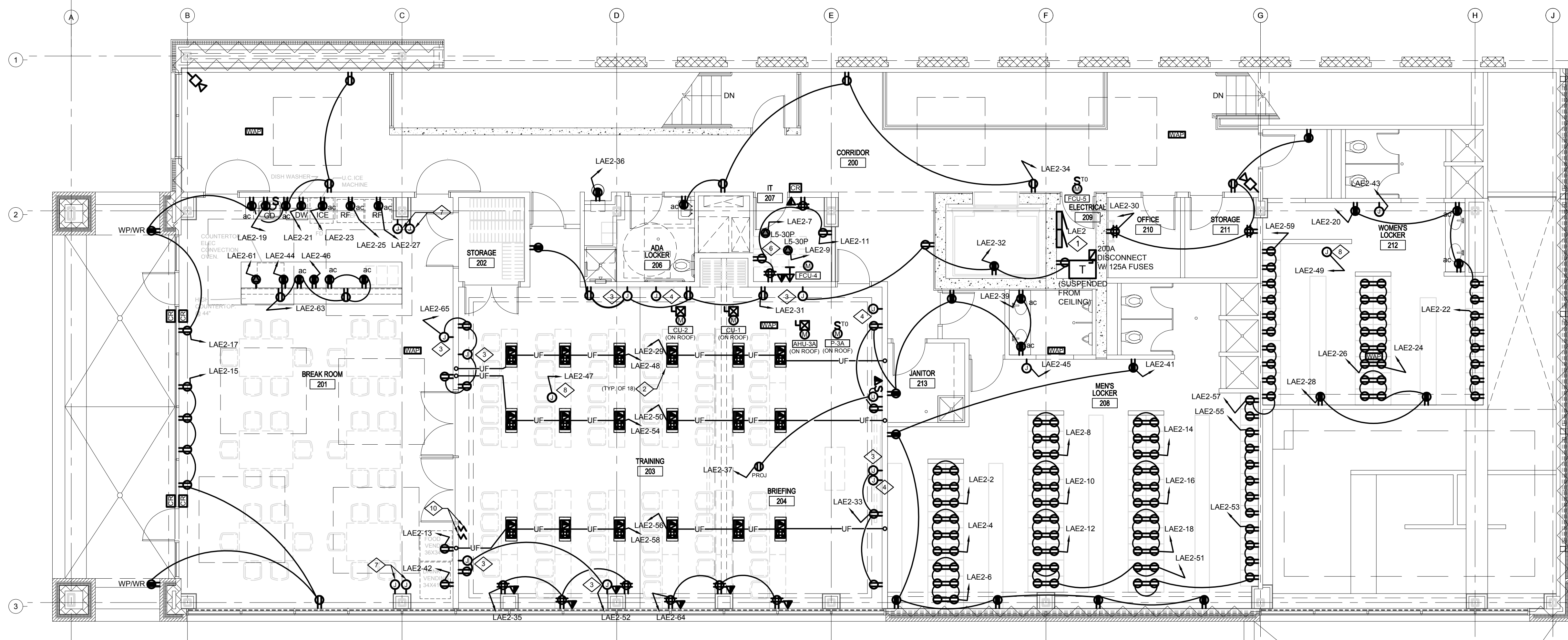
OWNERSHIP OF DOCUMENTS: ALL INVENTIONS, SPECIFICATIONS AND OTHER WORK PRODUCT OF THE ENGINEER FOR THIS PROJECT ARE HEREBY ASSIGNED TO THE ENGINEER. NO PART OF THIS PROJECT SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER. THE ENGINEER SHALL BE AT THE CLIENT'S RISK AND THE CLIENT AGREES TO DEFEND, HOLD HARMLESS AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF UNAUTHORIZED REUSE OF THE ENGINEER'S WORK PRODUCT OR SERVICE BY THE OWNER OR BY OTHERS ACTING THROUGH THE OWNER.

ARJESSE:\05-20\42-16\_X1-1\_XC-1-PWR Layouts-(E2.1) FIRST FLOOR POWER-SYSTEMS PLAN.dwg JUN 5, 2019 11:04AM HIRLEY  
 D:\SCALE=96 15\1417003\05g\Boulder County Jail Area 4 Expansion\Sheets\Electrical\E2.1 FIRST FLOOR POWER-SYSTEMS PLAN.dwg

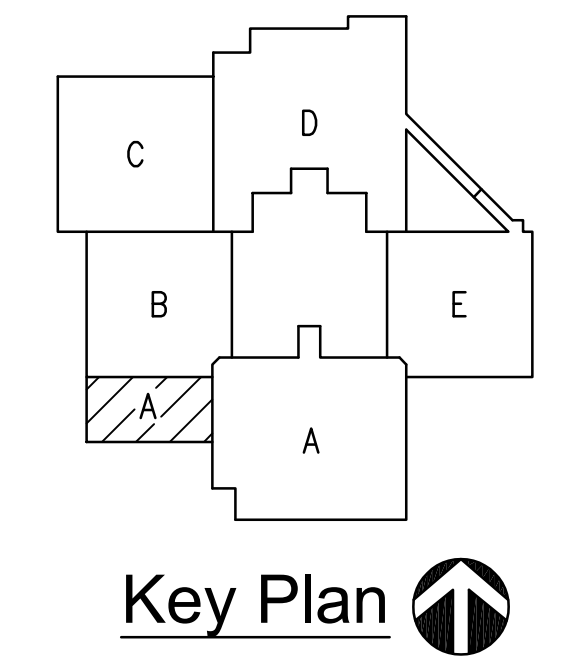
No.	Revision	Description	Date
1	ADDENDUM 1		9/18/16
3	UPGR NODD 15 CH DOC MODIFICATIONS		1/14/19

- GENERAL NOTES**
1. LIGHT TEXT AND LIGHT LINES INDICATE EXISTING. DARK TEXT AND SOLID LINES INDICATE NEW WORK.
  2. EACH BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS ARE NOT PERMITTED IN MULTIPLE CIRCUIT HOMERUNS.
  3. REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS AND LOCATIONS.
  4. IF ROOF-MOUNTED MECHANICAL EQUIPMENT DOES NOT CONTAIN INTEGRAL CONVENIENCE RECEPTACLE, INSTALL ROOF-MOUNTED WPWR RECEPTACLE WITHIN 25' OF NEWLY INSTALLED MECHANICAL EQUIPMENT. POWER VIA SPARE 20A CIRCUIT ON PANEL LAE2.

- WORK NOTES**
1. NEW PANEL LAE2 TO BE FED FROM PANEL HAE (LOCATED IN ELECTRICAL ROOM 110 BELOW) VIA CEILING-MOUNTED TRANSFORMER.
  2. PROVIDE WIREMOLD RFB9 SERIES FLOOR BOX (12 5/8" L x 14 3/4" W) OR SIMILAR. PROVIDE (4) DATA PORTS AT EACH FLOOR BOX.
  3. PROVIDE A WALL BOX FOR A SINGLE GANG WALLBOX FOR (FUTURE) DATA. A SINGLE GANG WALLBOX FOR (FUTURE) AV, AND DUPLEX RECEPTACLE. MOUNT AT 7'-0" AFF.
  4. PROVIDE A 2-GANG WALLBOX FOR (FUTURE) AV.
  5. PROVIDE A SINGLE GANG WALLBOX BEHIND TV FOR LOW-VOLTAGE CABLING.
  6. ELECTRICAL CONTRACTOR TO MATCH EXACT NEMA CONFIGURATION SPECIFIED BY OWNER'S I.T. TEAM. PROPOSED CONFIGURATION WITHIN I.T. ROOM IS CONFIGURED FOR (2) TWO RACKS SUPPORTED BY (2) TWO APC UPS WITH CEILING MOUNTED TWIST LOCK RECEPTACLES.
  7. PROVIDE FACELESS GFCI RECEPTACLE AT JUNCTION BOX. FACELESS GFCI TO SERVE VENDING MACHINE/REFRIGERATOR IN BREAK ROOM.
  8. PROVIDE JUNCTION BOX FOR TEMPERATURE CONTROLS.
  9. PROVIDE JUNCTION BOXES FOR MOTORIZED SHADES.
  10. PROVIDE TOGGLE SWITCH FOR CONTROL OF MOTORIZED SHADES.



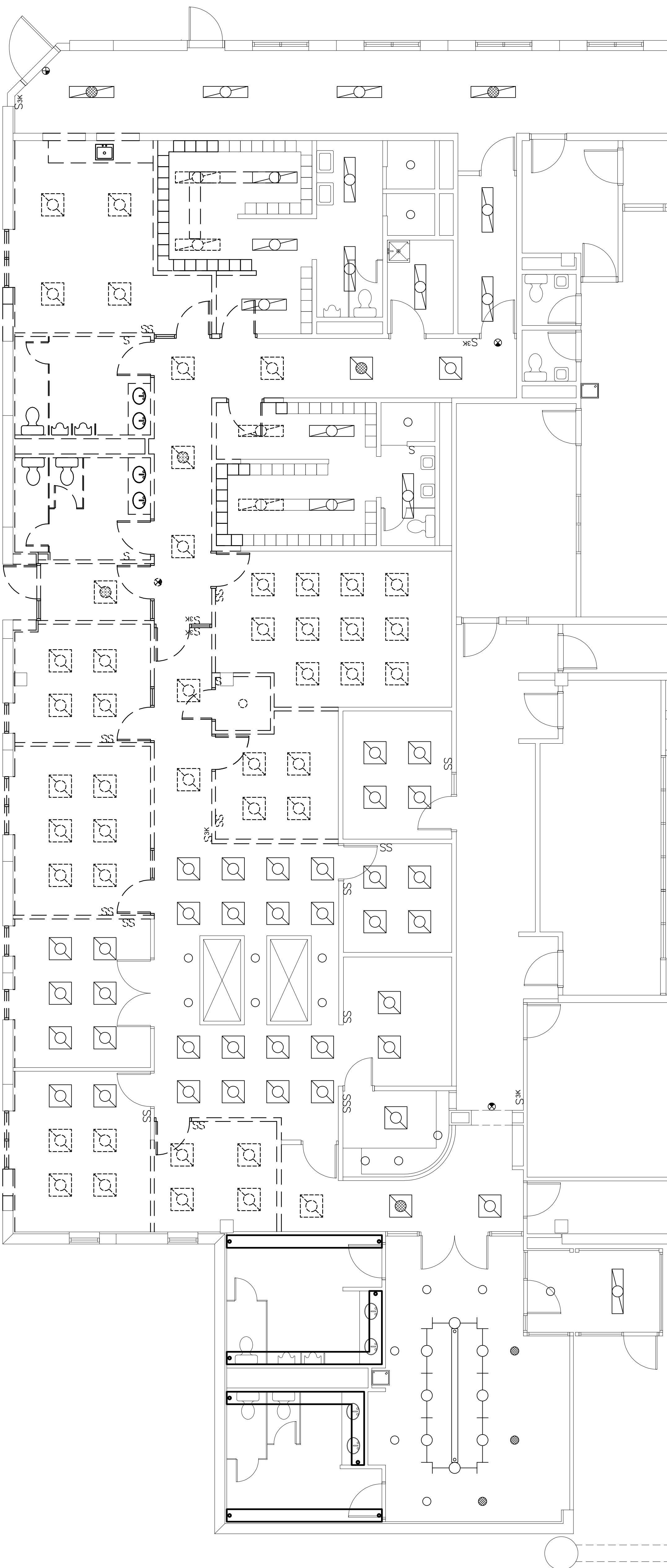
**SECOND FLOOR POWER-SYSTEMS PLAN**  
SCALE: 3/16" = 1'-0"  
2' 0' 4' 10'



ADDRESS=(X:\3042\16\_X1-2\_X1-2-PWR) Layouts=(E2.2 SECOND FLOOR POWER-SYSTEMS PLAN) BINSCALE=1 F:\3147003\03\Boulder County Jail Area A Expansion\Sheets\Electrical\E2.2 SECOND FLOOR POWER-SYSTEMS PLAN.dwg AUG 16, 2016 7:00PM HIRGLEY

OWNERSHIP OF DOCUMENTS: ALL INVENTIONS, SPECIFICATIONS AND OTHER WORK PRODUCT OF THE ENGINEER FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE FOR THIS PROJECT ONLY AND SHALL REMAIN THE PROPERTY OF THE ENGINEER UNLESS THE PROJECT IS COMPLETED OR NOT. NO PART OF THE INSTRUMENTS OF SERVICE OF THE ENGINEER SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER. THE ENGINEER SHALL BE AT THE CLIENT'S RISK AND THE CLIENT AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF UNAUTHORIZED REUSE OF THE ENGINEER'S INSTRUMENTS OF SERVICE BY THE OWNER OR BY OTHERS ACTING THROUGH THE OWNER.

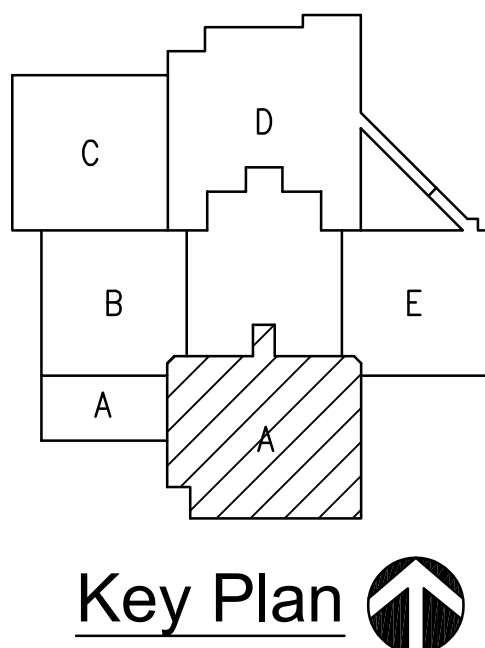
No.	Revision Description	Date
1	ADD/REMOVE	9/18/18
3	MINOR MOD TECH DOC MODIFICATIONS	1/4/19



**GENERAL NOTES**

1. PROVIDE ELECTRICAL REMOVAL OF ALL EQUIPMENT, GEAR, DEVICES, CONDUIT, AND WIRING WITHIN THE SCOPE OF WORK. ALL CONDUIT AND WIRING TO BE REMOVED BACK TO SOURCE.
2. THE OWNER SHALL BE GIVEN THE OPPORTUNITY TO MAINTAIN POSSESSION OF ANY ELECTRICAL GEAR, DEVICES, PARTS, OR LUMINAIRES. ANYTHING REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF IN A LEGAL MANNER.

**LIGHTING DEMOLITION PLAN**  
SCALE: 3/16" = 1'-0"  
2' 0' 4' 10'

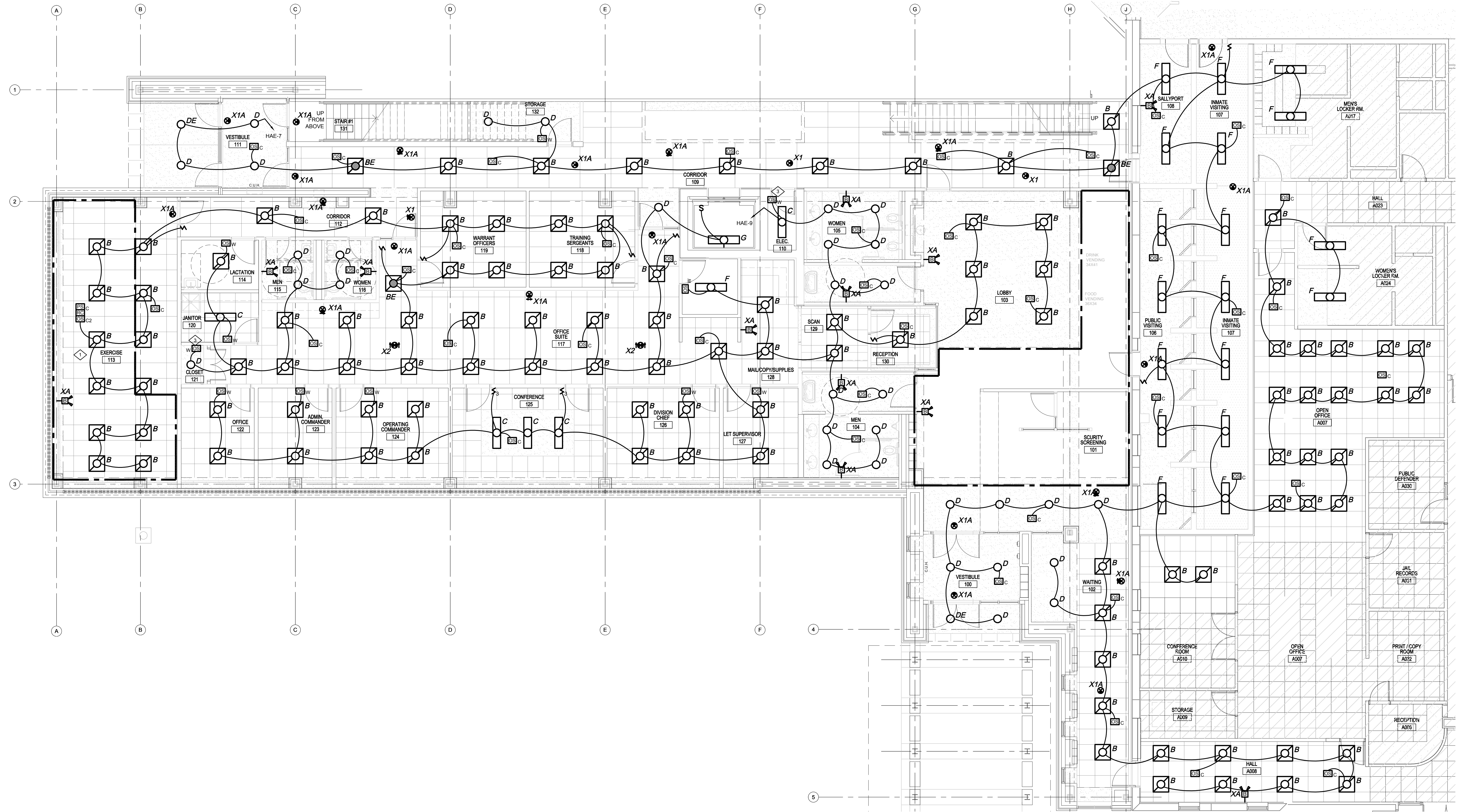


OWNERSHIP OF DOCUMENTS:  
ALL DRAWINGS, SPECIFICATIONS AND OTHER WORK PRODUCT OF THE ENGINEER FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE FOR THIS PROJECT ONLY AND SHALL REMAIN THE PROPERTY OF THE ENGINEER UNLESS THE PROJECT IS COMPLETED BY THE ENGINEER OR ANY OF THE INSTRUMENTS OF SERVICE OF THE ENGINEER BY THE OWNER OR EXTENSION OF THIS PROJECT WITHOUT WRITTEN PERMISSION OF THE ENGINEER SHALL BE AT THE OWNER'S RISK AND THE OWNER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF UNAUTHORIZED REUSE OF THE ENGINEER'S INSTRUMENTS OF SERVICE BY THE OWNER OR BY OTHERS ACTING THROUGH THE OWNER.

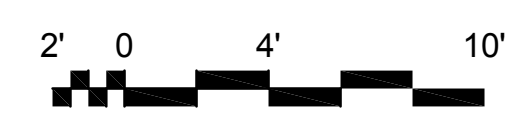
XREFS=XX-30x42-TB, XX-10D60, XX-1-LTC-D600, Layouts=ES0\_LIGHTING DEMOLITION PLAN, Demolition PLAN.dwg AUG 9, 2018 11:18AM REEDFORD



No.	Revision	Description	Date
1	ADDENDUM 1		9/18/18
2	MINOR MOD TECH DOC		1/14/19
3	MODIFICATIONS		



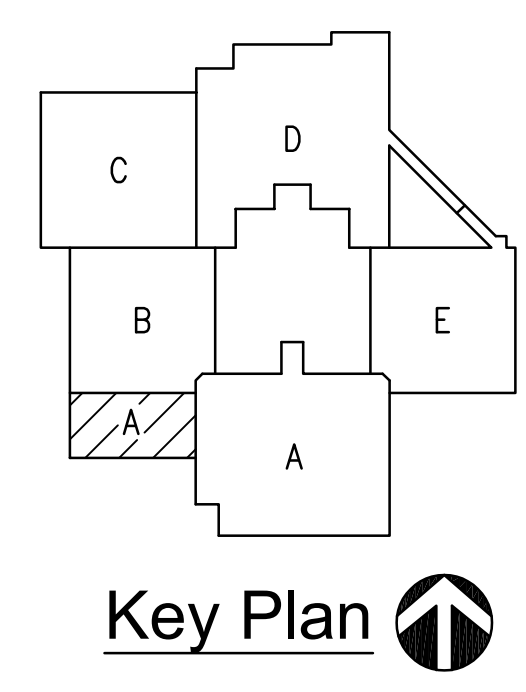
**FIRST FLOOR LIGHTING PLAN**  
SCALE: 3/16" = 1'-0"



- GENERAL NOTES**
- LIGHT TEXT AND LIGHT LINES INDICATE EXISTING; DARK TEXT AND SOLID LINES INDICATE NEW WORK.
  - EACH BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS ARE NOT PERMITTED IN MULTIPLE CIRCUIT HOMERUNS.
  - REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS AND LOCATIONS.
  - CONNECT EXIT SIGNS, DUAL-HEADED EM LIGHTS, AND EMERGENCY DOWNLIGHTS TO AREA LIGHTING CIRCUIT AHEAD OF SWITCH LEG, UNLESS OTHERWISE NOTED.
  - ALL LOW VOLTAGE SWITCHES TO INCLUDE DIMMING CAPABILITIES. COMPLY WITH COBEC C405.2.1.2.
  - ALL EXIT SIGNS LABELED 'X1A' OR 'X2A' SHALL BE 'X1' AND 'X2' LUMINAIRES WITH ADDITIONAL EMERGENCY FROG-EYES INCLUDED IN FIXTURE.
  - ALL 'XA' LUMINAIRES TO BE COMPASS CU2 LED EMERGENCY LIGHT OR APPROVED EQUAL.

- WORK NOTES**
- PHOTOSENSOR TO CONTROL LIGHTING WITHIN FENESTRATION ZONE (INSIDE DASHED LINES) VIA ROOM CONTROLLER. ONE LOW VOLTAGE SWITCH TO CONTROL FENESTRATION ZONE LIGHTING, ONE LOW VOLTAGE SWITCH TO CONTROL ALL OTHER LIGHTING WITHIN ROOM.
  - LIGHTING WITHIN DASHED LINE INDICATED ON DRAWING E3.2 SECOND FLOOR LIGHTING PLAN.
  - VACANCY SENSOR REQUIRING MANUAL ON/AUTO OFF ACTIVATION.

- LIGHTING CONTROL LEGEND**
- DS W WATT STOPPER DSW-301-W DUAL TECHNOLOGY WALL OCCUPANCY SENSOR.
  - DS C WATT STOPPER DT-300-W DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR WITH 62-150 POWER PACK.
  - DS C-2 WATT STOPPER LMD-100 DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR.
  - DS C WATT STOPPER LMLS-400 SINGLE ZONE SWITCHING AND DIMMING CLOSED LOOP DIGITAL PHOTOSENSOR.
  - DS W WATT STOPPER LMR-212 DOUBLE RELAY 0-10V DIMMING ROOM CONTROLLER.
  - DS W WATT STOPPER LMDM-101 WALL-MOUNTED SINGLE RELAY 0-10V DIMMER.
- NOTE: CONTRACTOR SHALL PROGRAM SENSORS TO BE CONTROLLED MANUAL ON/AUTO OFF AND TIMED PER OWNER'S REQUIREMENTS AND 2017 COBEC REQUIREMENTS. RESTROOMS, PUBLIC CORRIDORS, STAIRWAYS, AND PRIMARY BUILDING ENTRANCE AREAS AND LOBBIES SHALL BE CONTROLLED AUTO ON/AUTO OFF.



DRAWN: HTR  
CHECKED: SCS

**DRAWING TITLE**  
FIRST FLOOR LIGHTING PLAN

DATE: JANUARY 4, 2019  
SCALE: 3/16" = 1'-0"

XREFS: XY-30442-TB\_XY-1\_XC-1-1-10C\_XC-1-18CP Level: E3.1 FIRST FLOOR LIGHTING PLAN  
DWGSCALE=96 F:\31417003\Draw\Boulder County\Jai Area A\_Expansion\Sheets\Electrical\E3.1 FIRST FLOOR LIGHTING PLAN.dwg AUG 14, 2018 4:38PM RLEDPORD

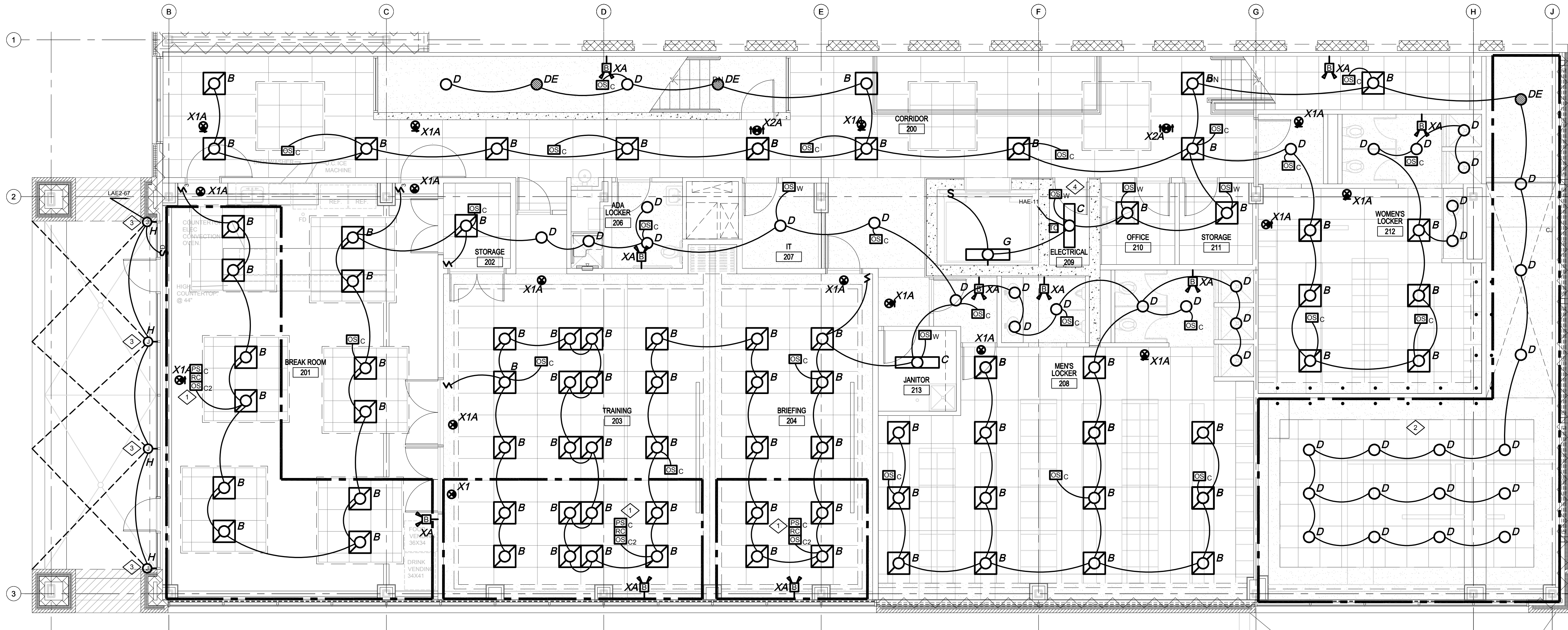
OWNER OF DOCUMENTS:  
ALL INFORMATION, SPECIFICATIONS AND OTHER WORK PRODUCT OF THE ENGINEER FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE FOR THIS PROJECT ONLY AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. NO PART OF THIS PROJECT OR INSTRUMENTS OF SERVICE SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER. THE OWNER'S USE OF THIS PROJECT OR INSTRUMENTS OF SERVICE SHALL BE AT THE OWNER'S RISK AND THE OWNER AGREES TO HOLD THE ENGINEER AND THIS FIRM HARMLESS FROM ALL CLAIMS, DAMAGES, AND EXPENSES INCLUDING ATTORNEY'S FEES, ARISING OUT OF UNAUTHORIZED REUSE OF THE ENGINEER'S INSTRUMENTS OF SERVICE BY THE OWNER OR BY OTHERS ACTING THROUGH THE OWNER.

No.	Revision	Description	Date
1	ADDENDUM 1		9/18/18
3	UPGR AND 18 CH DOC MODIFICATION		1/14/19

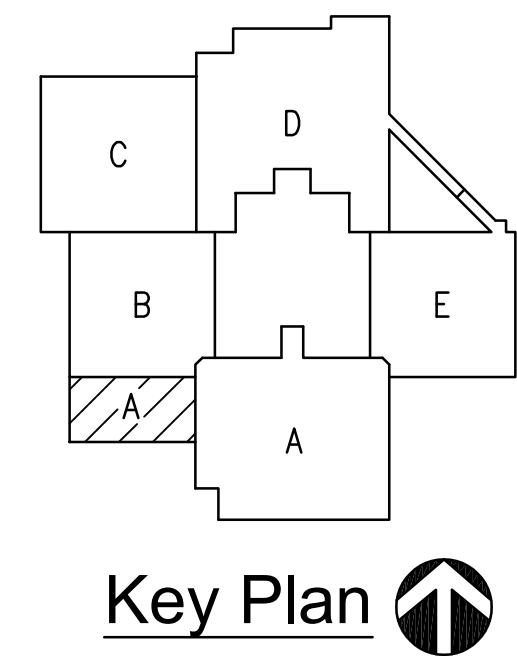
- GENERAL NOTES**
1. LIGHT TEXT AND LIGHT LINES INDICATE EXISTING. DARK TEXT AND SOLID LINES INDICATE NEW WORK.
  2. EACH BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS ARE NOT PERMITTED IN MULTIPLE CIRCUIT HOMERUNS.
  3. REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS AND LOCATIONS.
  4. CONNECT EXIT SIGNS, DUAL-HEADED EM LIGHTS, AND EMERGENCY DOWNLIGHTS TO AREA LIGHTING CIRCUIT AHEAD OF SWITCH LEG, UNLESS OTHERWISE NOTED.
  5. ALL LOW VOLTAGE SWITCHES TO INCLUDE DIMMING CAPABILITIES. COMPLY WITH COBECC C408.2.1.2.
  6. ALL EXIT SIGNS LABELED 'X1A' OR 'X2A' SHALL BE 'X1' AND 'X2' LUMINAIRES WITH ADDITIONAL EMERGENCY FROG-EYES INCLUDED IN FIXTURE.
  7. ALL 'XA' LUMINAIRES TO BE COMPASS CU2 LED EMERGENCY LIGHT OR APPROVED EQUAL.

- WORK NOTES**
1. PHOTOSENSOR TO CONTROL LIGHTING WITHIN FENESTRATION ZONE (INSIDE DASHED LINES) VIA ROOM CONTROLLER. ONE LOW VOLTAGE SWITCH TO CONTROL FENESTRATION ZONE LIGHTING. ONE LOW VOLTAGE SWITCH TO CONTROL ALL OTHER LIGHTING WITHIN ROOM.
  2. LIGHTING WITHIN DASHED LINE SERVES SPACE BELOW. CONTROL VIA TIMECLOCK IN ELECTRICAL ROOM, 209.
  3. FESTOON LIGHTING (TYPE L ON LUMINAIRE SCHEDULE). INSTALL STRING LIGHTS AND HANG ALONG EDGES OF SALLS (SEE ARCHITECTURAL PLANS FOR MORE INFORMATION). ALL FESTOON LIGHTING CONTROLLED VIA DIMMER INSIDE PATIO DOOR.
  4. VACANCY SENSOR REQUIRING MANUAL ON/AUTO OFF ACTIVATION.

- LIGHTING CONTROL LEGEND**
- DSW-W WATT STOPPER DSW-301-W DUAL TECHNOLOGY WALL OCCUPANCY SENSOR.
  - DT-300-W WATT STOPPER DT-300-W DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR WITH BZ-150 POWER PACK.
  - LMD-100 WATT STOPPER LMD-100 DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR.
  - LMLS-400 WATT STOPPER LMLS-400 SINGLE ZONE SWITCHING AND DIMMING CLOSED LOOP DIGITAL PHOTOSENSOR.
  - LMRC-212 WATT STOPPER LMRC-212 DOUBLE RELAY 0-10V DIMMING ROOM CONTROLLER.
  - LMDM-101 WATT STOPPER LMDM-101 WALL-MOUNTED SINGLE RELAY 0-10V DIMMER.
- NOTE: CONTRACTOR SHALL PROGRAM SENSORS TO BE CONTROLLED MANUAL ON/AUTO OFF AND TIMED PER OWNER'S REQUIREMENTS AND 2017 COBECC REQUIREMENTS. RESTROOMS, PUBLIC CORRIDORS, STAIRWAYS, AND PRIMARY BUILDING ENTRANCE AREAS AND LOBBIES SHALL BE CONTROLLED AUTO ON/AUTO OFF.



**SECOND FLOOR LIGHTING PLAN**  
SCALE: 3/16" = 1'-0"  
2' 0' 4' 10'



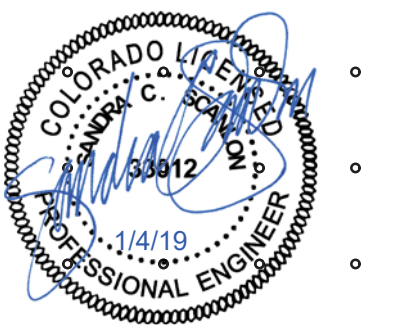
**Key Plan**

OWNERSHIP OF DOCUMENTS: ALL INFORMATION CONTAINED HEREIN AND OTHER WORK PRODUCT OF THE ENGINEER FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE FOR THE PROJECT ONLY AND SHALL REMAIN THE PROPERTY OF THE ENGINEER AND SHALL BE LOANED TO THE CLIENT. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER. THE ENGINEER SHALL BE AT THE CLIENT'S RISK AND THE CLIENT AGREES TO HOLD THE ENGINEER AND HIS OR HER FIRM HARMLESS FROM ALL CLAIMS, DAMAGES, AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF UNAUTHORIZED REUSE OF THE ENGINEER'S INSTRUMENTS OF SERVICE BY THE CLIENT OR BY OTHERS ACTING THROUGH THE CLIENT.

ADDRESS: \\X-30\42-1B\_X1-2-X1C-X1-2-10C\_X1-2-10C1\Projects\E3.2 SECOND FLOOR LIGHTING PLAN.dwg AUG 16, 2018 4:41PM HREGLEY  
DMSSCALE=1 F:\3147003\03\Boulder County Jail Area A Expansion\Sheets\Electrical\E3.2 SECOND FLOOR LIGHTING PLAN.dwg



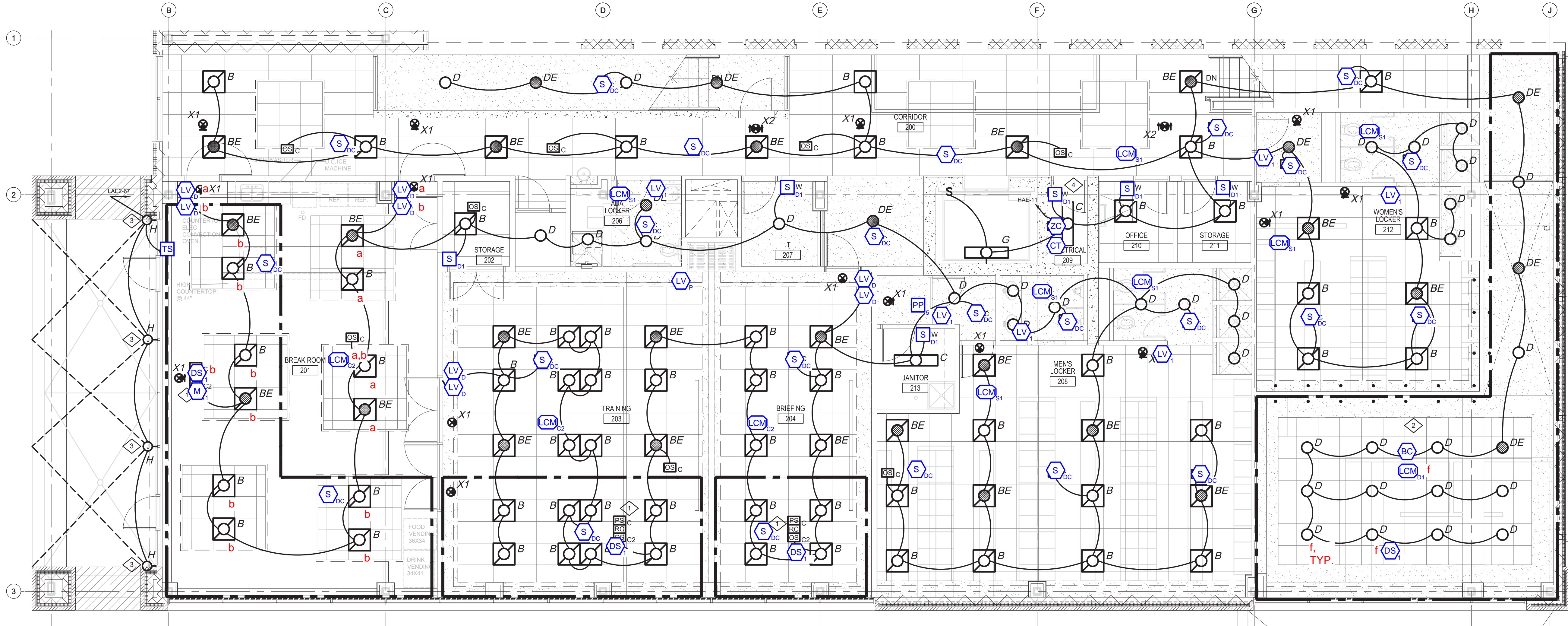
No.	Revision	Description	Date
1	ADDENDUM 1		9/18/18
3	UPGRADE FROM 15cm TO 18cm		1/14/19



- GENERAL NOTES**
1. LIGHT TEXT AND LIGHT LINES INDICATE EXISTING. DARK TEXT AND SOLID LINES INDICATE NEW WORK.
  2. EACH BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS ARE NOT PERMITTED IN MULTIPLE CIRCUIT HOMERUNS.
  3. REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS AND LOCATIONS.
  4. CONNECT EXIT SIGNS, DUAL-HEADED EM LIGHTS, AND EMERGENCY DOWNLIGHTS TO AREA LIGHTING CIRCUIT AHEAD OF SWITCH LEG, UNLESS OTHERWISE NOTED.
  5. ALL LOW VOLTAGE SWITCHES TO INCLUDE DIMMING CAPABILITIES. COMPLY WITH COBECC C405.2.1.2.

- WORK NOTES**
1. PHOTOSENSOR TO CONTROL LIGHTING WITHIN FENESTRATION ZONE (INSIDE DASHED LINES) VIA ROOM CONTROLLER. ONE LOW VOLTAGE SWITCH TO CONTROL FENESTRATION ZONE LIGHTING. ONE LOW VOLTAGE SWITCH TO CONTROL ALL OTHER LIGHTING WITHIN ROOM.
  2. LIGHTING WITHIN DASHED LINE SERVES SPACE BELOW. CONTROL VIA TIMECLOCK IN ELECTRICAL ROOM, 209.
  3. FESTOON LIGHTING (TYPE L ON LUMINAIRE SCHEDULE). INSTALL STRING LIGHTS AND HANG ALONG EDGES OF SAILS (SEE ARCHITECTURAL PLANS FOR MORE INFORMATION). ALL FESTOON LIGHTING CONTROLLED VIA DIMMER INSIDE PATIO DOOR.
  4. VACANCY SENSOR REQUIRING MANUAL ON/AUTO OFF ACTIVATION.

- LIGHTING CONTROL LEGEND**
- DSW: WATT STOPPER DSW-301-W DUAL TECHNOLOGY WALL OCCUPANCY SENSOR.
  - DS: WATT STOPPER DT-300-W DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR WITH BZ-150 POWER PACK.
  - CM: WATT STOPPER LMDC-100 DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR.
  - DS: WATT STOPPER LMLS-400 SINGLE ZONE SWITCHING AND DIMMING CLOSED LOOP DIGITAL PHOTOSENSOR.
  - LMRC: WATT STOPPER LMRC-212 DOUBLE RELAY 0-10V DIMMING ROOM CONTROLLER.
  - DS: WATT STOPPER LMDM-101 WALL-MOUNTED SINGLE RELAY 0-10V DIMMER.
- NOTE: CONTRACTOR SHALL PROGRAM SENSORS TO BE CONTROLLED MANUAL ON/AUTO OFF AND TIMED PER OWNER'S REQUIREMENTS AND 2017 COBECC REQUIREMENTS. RESTROOMS, PUBLIC CORRIDORS, STAIRWAYS, AND PRIMARY BUILDING ENTRANCE AREAS AND LOBBIES SHALL BE CONTROLLED AUTO ON/AUTO OFF.



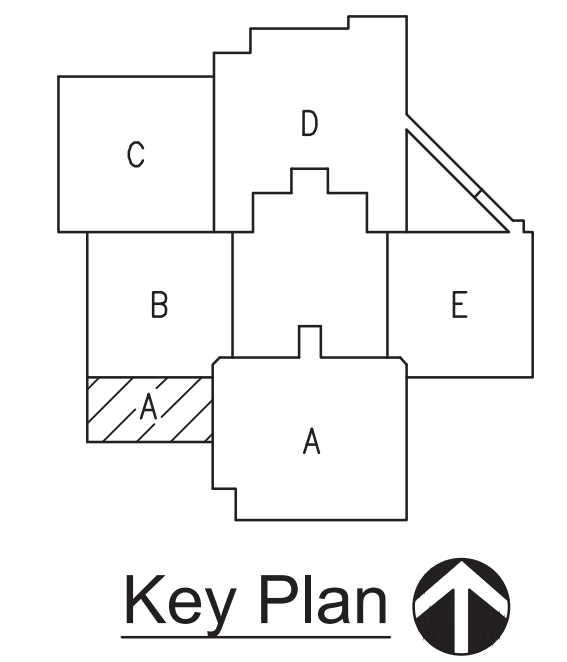
**SECOND FLOOR LIGHTING PLAN**  
SCALE: 3/16" = 1'-0"  
2' 0 4' 10'

**Analog Devices**

Manufacturer Part #	Type	Quantity	Voltage	Mounting
PP	BZ-50 Power Pack	1	120/277VAC	J-Box
DS <sub>1</sub>	DSW-301-W Dual Tech. Wallbox Sensor, 1-Relay	11	120/277VAC	Wallbox
DS <sub>3</sub>	DW-311-W Dual Tech. Wallbox Sensor, 1-Relay 0-10V Dimming	5	120/277VAC	Wallbox
TS	TS-400-W Digital Time Switch	1	120/277VAC	Wallbox

**Digital Lighting Management**

Manufacturer Part #	Type	Quantity	Voltage	Mounting
BC	LMBC-300 DLM Network Bridge	1	24VDC	Din Rail
SC	LMDC-100 DLM Dual Tech. Ceiling Sensor	63	24VDC	Ceiling
LV	LMDM-101-W DLM Low Voltage Dimming Switch, 1-Button/Paddle	21	24VDC	Wallbox
DS	LMLS-400-L DLM Single Zone Closed Loop Photocell	8	24VDC	Ceiling
M	LMLS-MB1 LMLS Photocell mounting bracket, J-Box Mount	1	UNIV.	J-Box
LV	LMPS-104-W-U DLM Low Voltage Partition Switch, 4-Button	1	24VDC	Wallbox
CM <sub>1</sub>	LMRC-101 DLM Room Controller, 1-Zone, Switching	12	120/277VAC	J-Box
CM <sub>1</sub>	LMRC-111 DLM Room Controller, 1-Zone, Dimming, Compact 10A	6	120/277VAC	J-Box
CM <sub>2</sub>	LMRC-112 DLM Room Controller, 2-Zone, Dimming, Compact 10A	6	120/277VAC	J-Box
CM <sub>1</sub>	LMRC-211 DLM Room Controller, 1-Zone, Dimming	2	120/277VAC	J-Box
LV	LMSW-101-W DLM Low Voltage Momentary Switch, 1-Button	15	24VDC	Wallbox



ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE ENGINEER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER. THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER. THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

XREFS=(XV=30;42=1B;XX=2;XC=2-1IC;XX=2P) Layers=(E3.2 SECOND FLOOR LIGHTING PLAN) DMSSCALE=1 F:\S\1417003\03\Wg\Boulder County Jail Area A Expansion\Sheets\Electrical\E3.2 SECOND FLOOR LIGHTING PLAN.dwg AUG 16, 2018 4:41PM HRCLEY



## How to register your entity to be eligible for GRANTS in SAM:

### Before you register, you need to know the following:



#### What is an Entity?

In SAM, your company/business/organization is now referred to as an "Entity."

- **REGISTERING IN SAM IS FREE.**
- If you were registered in CCR, your company's information is already in SAM. You just need to set up a SAM account. See the "Migrating Roles" Quick Start Guide.



#### Your Entity's DUNS Number

You need a DUNS to register your entity in SAM.

- If you do not have a DUNS number, you can request a DUNS number for free by visiting D&B at <http://fedgov.dnb.com/webform>
- It takes 1-2 business days to obtain a DUNS.



#### Your Entity's Taxpayer Identification Number (TIN)

You need your entity's Tax ID Number (TIN) and taxpayer name (as it appears on your last tax return). Foreign entities that do not pay employees within the U.S. do not need to provide a TIN.

- A TIN is an Employer Identification Number (EIN) assigned by the Internal Revenue Service (IRS).
- Sole proprietors may use their Social Security Number (SSN) assigned by the Social Security Administration (SSA) if they do not have a TIN, but please be advised it will not be treated as privacy act data in SAM.
- To obtain an EIN visit:  
[www.irs.gov/businesses/small/article/0,,id=102767,00.html](http://www.irs.gov/businesses/small/article/0,,id=102767,00.html)
- Activating a new EIN with the IRS takes 2-5 weeks.



### Steps For Registering Your Entity in SAM

1. Go to [www.sam.gov](http://www.sam.gov)
2. Create a Personal Account and Login
3. Click "Register New Entity" under "Manage Entity" on your "My SAM" page
4. Select your type of Entity
5. Select "No" to "Do you wish to bid on contracts?"
6. Select "Yes" to "Do you want to be eligible for grants and other federal assistance?"
7. Complete "Core Data"
  - ✓ Validate your DUNS information
  - ✓ Enter Business Information (TIN, etc.)
  - ✓ Enter CAGE code if you have one. If not, one will be assigned to you after your registration is completed. Foreign registrants must enter NCAGE code.
  - ✓ Enter General Information (business types, organization structure, etc)
  - ✓ Financial Information (Electronic Funds Transfer (EFT) Information)
  - ✓ Executive Compensation
  - ✓ Proceedings Details
8. Complete "Points of Contact"
9. Your entity registration will become active after 3-5 days when the IRS validates your TIN information.

How do I get more information? Take a look at the SAM User Guide.



Go to Our Website: [www.sam.gov](http://www.sam.gov)



Contact the SAM Help Desk: [www.fsd.gov](http://www.fsd.gov)