



Boulder County Purchasing
1325 Pearl Street
Boulder, CO 80302
purchasing@bouldercounty.org

REQUEST FOR PROPOSAL
COVER PAGE

RFP Number: **7152-20**

RFP Title: **Lighting Upgrade Engineering**

RFP Questions Due: June 10, 2020 – 2:00 p.m.

Submittal Due Date: June 19, 2020 – 2:00 p.m.

Email Address: purchasing@bouldercounty.org

Documents included in this package:

- Proposal Instructions
- Terms and Conditions
- Specifications
- Insurance and W-9 Requirements
- Submittal Checklist
- Evaluation Criteria
- Sustainability Questionnaire
- Signature Page
- Sample Contract
- Drawings



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PROPOSAL INSTRUCTIONS

1. Purpose/Background

The City of Boulder is requiring buildings over 50,000 square feet to upgrade their lighting systems to 2017 COBECC. Boulder County is seeking an engineering firm to review existing conditions and provide documentation to enable completion of this work on the following buildings in 2021.

Downtown Main Courthouse	1325 Pearl St.	73,723
Jail	3200 Airport Rd.	127,606
Sheriff Headquarters	5600 Flatirons Pkwy	77,090
Justice Center	1777 6th St.	281,650
Recycling Center Processing & Administration	1901 E. 63rd St.	63,593

Additional information about the City of Boulders requirements can be found at the following web site:

<https://bouldercolorado.gov/sustainability/boulder-building-performance-efficiency-requirements>

2. Written Inquiries

All inquiries regarding this RFP will be submitted via email to the Boulder County Purchasing Office at purchasing@bouldercounty.org on or before 2:00 p.m. **June 10, 2020**. A response from the county to all inquiries will be posted and sent via email no later than **June 12, 2020**.

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

3. Submittal Instructions

Submittals are due at the email box only, listed below, for time and date recording on or before **2:00 p.m. Mountain Time on June 19, 2020.**

Please note that email responses to this solicitation 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; identified as **RFP # 7152-20** in the subject line.

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

The Board of County Commissioners reserves the right to reject any and all responses, 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.



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TERMS AND CONDITIONS

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1. Proposers are expected to examine the drawing, specifications, schedule of delivery, and all instructions. Failure to do so will be at the proposer's risk.
 2. Each proposer will furnish the information required in the Request for Proposals.
 3. The Contract/Purchase Order will be awarded to that responsible proposer whose submittal, conforming to the Request for Proposals, will be most advantageous to the County of Boulder, price and other factors considered.
 4. The County of Boulder reserves the right to reject any or all proposals and to waive informalities and minor irregularities in proposals 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 proposals without the consent of the County Purchasing Agent or delegated representative.
 6. A signed purchase order or contract furnished to the successful proposer results in a binding contract without further action by either party.
 7. Late or unsigned proposals will not be accepted or considered. It is the responsibility of proposers to ensure that the proposal arrives at the Boulder County Information Desk prior to the time indicated in the "Request for Proposals."
 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 RFP documents will be made by Addendum. Interpretations, corrections and changes of the RFP documents made in any other manner will not be binding, and proposer will not rely upon such interpretations,

corrections and changes. The County's Representative will not be responsible for oral clarification.

10. Confidential/Proprietary Information: Proposals submitted in response to this "Request for Proposals" 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 proposal and any resulting contract will be clearly stated in the proposal itself. Confidential/proprietary information must be readily identified, marked and separated/packaged from the rest of the proposal. **Co-mingling of confidential/proprietary and other information is NOT acceptable. Neither a proposal, in its entirety, nor proposal 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. Proposers 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. Proposers 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/>.



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SPECIFICATIONS

Lighting Consultant / Engineering

Purpose/Background – The City of Boulder Building Performance Ordinance requires buildings over 50,000 sf to upgrade their lighting systems to 2017 COBECC. Boulder County is seeking an engineering firm to evaluate existing conditions and provide documentation to enable completion of this work on the following buildings in 2021.

Downtown Main Courthouse	1325 Pearl St.	73,723
Jail	3200 Airport Rd.	127,606
Sheriff Headquarters	5600 Flatirons Pkwy	77,090
Justice Center	1777 6th St.	281,650
Recycling Center Processing & Administration	1901 E. 63rd St.	63,593

Additional information about the City of Boulders Building Performance Ordinance requirements can be found at the following web site:

<https://bouldercolorado.gov/sustainability/boulder-building-performance-efficiency-requirements>

Timing

Boulder County’s goal is to have this engineering work contracted by the end of June with this consulting work commencing shortly after.

The County anticipates applying for a DOLA Energy and Mineral Impact Assistance Grant on August 1. It will be expected that the lighting retrofit engineering work will help demonstrate our commitment to having projects ready and able to complete quickly should the Grant funding become available.

The actual lighting retrofit work would commence after January 1, 2020.

Support and Documents

Boulder County has original reflected ceiling plans and lighting schedules for each building. The County will provide staff to assist in accessing all areas as needed to perform the evaluation.

Scope of Work and Phases

Pre-Construction

1. Complete a whole building(s) lighting evaluation and identify where lighting is non-compliant to the required code.
2. Identify Interior space lighting needs and types, (eq Courtrooms, offices, conference rooms, industrial, storage)
3. Identify rebate or engineering support opportunities and present findings, including procedures for obtaining the rebates and engineering support.
4. Review with Boulder County staff

Construction Documentation

1. Consideration when preparing bid documents:
 - a) Boulder County has a full-time staff of electricians and will most likely complete all installations.
 - b) Boulder County will most likely bid and purchase directly from suppliers all lighting and accessories for the project.
 - c) However, dependent on staff availability and other project demands, the County may elect to bid out work on individual buildings to subcontractors.
 - d) Boulder County has various standards for light fixtures, bulbs and lighting controls (eq. Watt Stopper controls) that are to be incorporated into the specifications.
 - e) Each building lighting upgrade will be permitted separately, provide drawings and specifications as required.
2. Provide new reflected ceiling plans of all spaces considering:
 - a) existing layouts and fixtures types
 - b) meeting the space lighting needs with existing fixture locations
 - c) retrofitting existing or using new fixtures
 - d) reducing fixtures when possible
 - e) lighting controls
3. Provide specifications for all lighting and electrical work.

Construction and Post Construction Administration

1. Provide evaluation support for lighting upgrades bids.
2. Provide shop drawing and submittal review.
3. Provide clarification information of plans and specifications during construction when requested.
4. Provide all documentation as required by the City of Boulder Building Performance Ordinance including the COMcheck certificate showing 'PASS' for all BPO-required lighting code sections for the current code year.

Lighting Consultant Selection

Boulder County will review each firm’s proposal for qualifications that best fits the needs of the County, this project and not solely on price.

Qualifications

Provide examples of completed projects demonstrating experience with following:

- Similar building types and projects
- Working with City of Boulder code compliance and Building Performance Ordinance
- Obtaining rebates and working with Grant funded projects
- Performance contracting
- Any other information that would be helpful in demonstrating firm qualifications

Pricing to be submitted per the following guidelines:

Because of the possibility for obtaining grant or engineering support from Utility Companies pricing is to be broken down by building. Boulder County’s intention is to award the work for all buildings to one consultant. Total price of contract will be for all buildings as listed.

Pre-Construction Phase – Provide a lump sum price, by building, for this scope of work as outlined above.

Construction Phase – It is understood that the effort required for this phase of work can not be determined until the lighting evaluation of buildings has taken place, therefore provide a price based on the following assumptions.

- Exterior Lighting – 100% will meet code requirements.
- Interior Lighting – 25% will meet code requirements.

Once pre-construction evaluation and work is completed, pricing for Construction phase work will be adjusted to reflect actual scope as compared to assumptions above.

Post-Construction Phase– Provide a lump sum price, by building, for this scope of work as outlined above.

Submit pricing for each building in the format example below:

Downtown Main Courthouse

Pre-Construction \$ _____

Construction Documentation \$ _____

Construction and Post Construction Administration \$ _____



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INSURANCE AND W-9 REQUIREMENTS

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

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.

Professional Liability (Errors and Omissions)

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.

***In regards to General Liability and Umbrella/Excess Liability:**
If any or all of these coverages are required above, additional insured status will be required at the time a contract is executed.

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

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. You are NOT required to include additional insured status until the time a contract is executed.

If you require a waiver of insurance requirements, you may request one in your response with an explanation.

W-9 REQUIREMENT

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



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SUBMITTAL SECTION

The proposer’s attention is especially called to the items listed below, which must be submitted in full as part of the PROPOSAL. Failure to submit any of the documents listed below as a part of your PROPOSAL, or failure to acknowledge any addendum in writing with your PROPOSAL, or submitting a proposal on any condition, limitation or provision not officially invited in this Request for Proposal (RFP) may be cause for rejection of the PROPOSAL.

THIS CHECKLIST MUST BE SUBMITTED AS PART OF YOUR PROPOSAL PACKAGE: Proposer 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 RFP. 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
	Sustainability Questionnaire
	Signature Page
	Addendum Acknowledgement(s) (If Applicable)



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EVALUATION CRITERIA

The proposals will be reviewed by a selection committee. The committee may request additional information from vendors or request interviews with one or more vendors. Final evaluation and selection may be based on, but not limited to, any or all of the following:

- Qualifications and experience of the vendor
- Similar building types and projects
- Working with City of Boulder code compliance and Building Performance Ordinance
- Obtaining rebates and working with Grant funded projects
- Sustainability Questionnaire score
- Information presented in proposal

A scoring matrix with the order and priority of criteria to be used by the county in its evaluation and selection process is shown below:

Description	Points
Qualifications and experience of the vendor	30
Similar building types and projects	20
Working with City of Boulder code compliance and Building Performance Ordinance	20
Obtaining rebates and working with Grant funded projects	10
Sustainability Questionnaire score	10
Information presented in proposal	10
Total Possible	100



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SUSTAINABILITY QUESTIONNAIRE

Company Name: _____ Date: _____

This questionnaire is applicable to firms that provide services as well as those that provide goods. Please answer the questions to the best of your ability.

1. What sustainability certifications does your business have? Please check the items that apply:

- B-Corp
- Green Business Bureau
- Fair Trade USA
- Green C Certification
- None
- Other - describe any other certifications your company has related to sustainability.

2. Does your company have a sustainability vision/commitment/values statement or policy? Please check the items that apply:

- Our sustainability statement/policy describes our company's sustainability initiatives.
- We have formed an oversight committee to ensure the success of our sustainability policy.
- Our sustainability statement/policy describes how our company explores opportunities to work with communities, governments and non-governmental and professional organizations to help articulate, teach and advance the principles of sustainability.
- We are currently in the process of developing a sustainability statement/policy consistent with a commitment to promote environmental, economic, and social sustainability.
- None
- Other - Provide (or supply a link) your company's sustainability statement/policy.

3. What policies are in place to monitor and manage your supply chain regarding sustainability issues? Please select all that apply:

- We apply sustainability criteria when making purchasing decisions.
- We partner with suppliers who share in our sustainability commitment and/or work with them to reduce the impact to the environment of our resource needs as well as improve worker conditions.
- We purchase “green” (i.e. recyclable, reusable, non-toxic, compostable, fair trade and made from 100% post-consumer recycled materials) supplies, products, and materials.
- We specify locally manufactured products in procuring goods.
- We specify products that use the Electronic Products Environmental Assessment Tool (EPEAT) standards in procuring goods.
- None.
- Other – describe other ways your company monitors and manages your supply chain concerning environmental issues.

4. Does your company promote sustainable transportation in its operations? Please select all that apply:

- We own, rent, or lease electric fleet vehicles.
- We own, rent, or lease hybrid or natural gas fueled fleet vehicles.
- We encourage carpooling, public transportation, and using other alternative modes of transportation.
- We subsidize public transportation for employees.
- We have an established Green Transportation Plan
- We are developing a Green Transportation Plan
- We offer flexible hours, telecommuting, or a compressed work week.
- We utilize teleconference, video conference, WebEx or GoTo Meetings (or other similar conferencing services).
- None
- Other – describe other ways your company promotes sustainable transportation. If applicable, use this space to describe your company’s Green Transportation Plan (whether existing or in development).

5. What does your company do to minimize the environmental impacts associated with shipping? Please check the items that apply:

- We have established company policies and procedures that minimize the need for shipping in the first place
- We combine deliveries with customer visits.
- We consolidate deliveries.
- We use bike couriers for local delivery.
- We utilize electronic communications and electronic transfer of documents, such as e-mail, fax and Portable Document Format (PDF).
- We specify products that can be purchased locally within a 500-mile radius of the delivery location in procuring goods.
- We are currently evaluating what the company can do to minimize the environmental impacts associated with shipping (must describe below; no additional points awarded for providing this description).
- Our packaging/shipping materials are reusable.
- Our packaging/shipping materials are made from 100% post-consumer recycled materials.
- N/A
- Other – describe what your company does to minimize the environmental costs associated with shipping. If applicable, use this space to provide required description(s).

6. Has your company ever been cited for non-compliance of any law, regulation, ordinance, code, rule, standard, or policy regarding an environmental or safety issue? Please check the item that applies:

- No, my company HAS NOT been cited for non-compliance regarding an environmental or safety issue.
- Yes, my company HAS been cited for non-compliance of an environmental or safety issue.
- N/A State the reason, date and outcome of the citation:

7. What programs do you have, either in place or currently being planned, to promote resource efficiency? Examples include energy or waste audit programs. Please check the items that apply:

- We have an established zero waste program.
- We utilize a facilities energy management system.
- We have adopted a climate action plan.
- We have a water conservation program.
- We have formed a sustainability committee to identify sustainable solutions for our company.
- We are a member of various sustainability organizations.

- We are recognized by peers and environmental organizations for providing leadership in Sustainability.
- None
- Other - what other programs do you have in place or planned for promoting resource. Efficiency?

8. If your business’s proposal involves the provision of a product, does the manufacturer of the product, whether your business or an outside entity, have a sustainability policy statement? Please check the item that applies:

- No, the manufacturer of the product that I am proposing DOES NOT have a sustainability policy statement.
- Yes, the manufacturer of the product that I am proposing HAS a sustainability policy statement.
- Not applicable.

Provide Sustainability Policy Statement:

9. If your business’s proposal involves the provision of a product, has the manufacturer of the product, whether your business or an outside entity, ever been cited for non-compliance of any law, regulation, ordinance, code, rule, standard, or policy regarding an environmental or safety issue? Please check the item that applies:

- No, the manufacturer of the product that I am proposing HAS NOT been cited for noncompliance regarding an environmental or safety issue.
- Yes, the manufacturer of the product that I am proposing HAS been cited for noncompliance regarding an environmental or safety issue.
- Not applicable.

Provide reason, date and outcome of the citation:

10. If your business’s bid/proposal involves the provision of a product, has an environmental life-cycle analysis of the product that you are proposing been conducted by a certified testing organization, such as Green Seal, Energy Star, and Cradle to Cradle? Please check the item that applies.

- No, an environmental life-cycle analysis of the product that I am bidding/proposing HAS NOT been conducted by a certified testing organization, such as Green Seal.
- Yes, an environmental life-cycle analysis of the product that I am bidding/proposing HAS been conducted by a certified testing organization, such as Green Seal.
- Not applicable.

Provide certification:



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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 20th 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.

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



Manning Knapp Watson
Architects and Planners P.C.
700 North Foothills Parkway, Suite 300
Boulder, Colorado 80502
303.440.1000



Renovation of the
Boulder County
Courthouse
Boulder County
1000 North Foothills Parkway, Suite 300
Boulder, Colorado 80502
303.440.1000

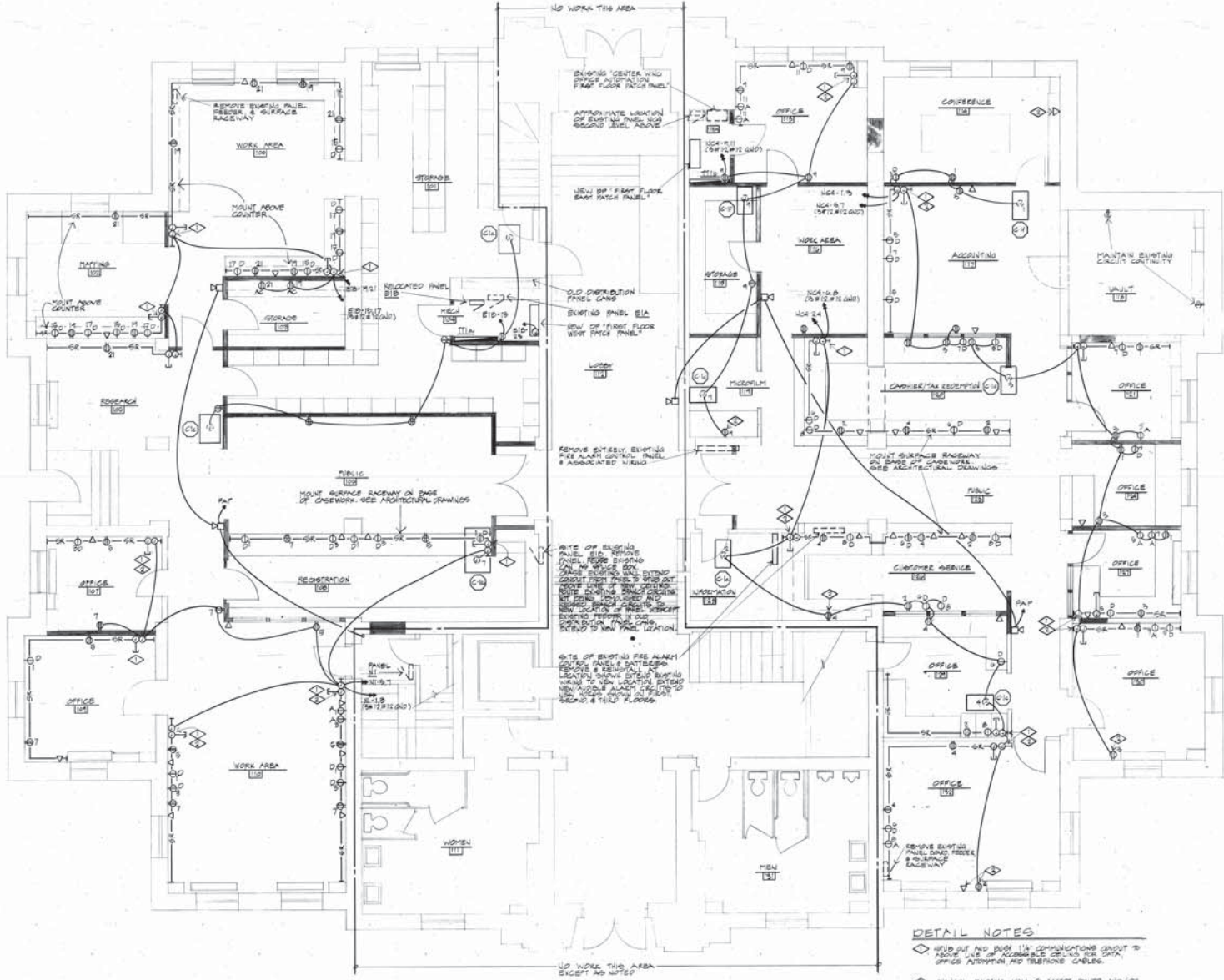
Johnston Design Architects Inc.
1000 North Foothills Parkway, Suite 300
Boulder, Colorado 80502
303.440.1000

J J Collins and Associates Inc.
1000 North Foothills Parkway, Suite 300
Boulder, Colorado 80502
303.440.1000

By: JJS
Date: 11.11.05
Checked: TJP
Date: 11/17/05

Sheet Title:
FIRST LEVEL
POWER PLAN

Revisions:
1. 11/17/05



FIRST LEVEL POWER PLAN
SCALE: 1/4" = 1'-0"



DETAIL NOTES

- ◆ REMOVE AND RUSH 1/2" COMMUNICATIONS CONDUIT TO ABOVE LINE OF ACCESSIBLE CEILING FOR DATA, OFFICE TELEPHONE AND TELEPHONE CABLES.
- ◆ CHANNEL EXISTING WALL TO ACCEPT POWER AND/OR COMMUNICATIONS CONDUITS TO ABOVE LINE OF ACCESSIBLE CEILING.



Manning Knapp Wilton
Architects and Planners Inc.
1075 North Street, Suite 300
Boulder, CO 80502
(303) 440-7300



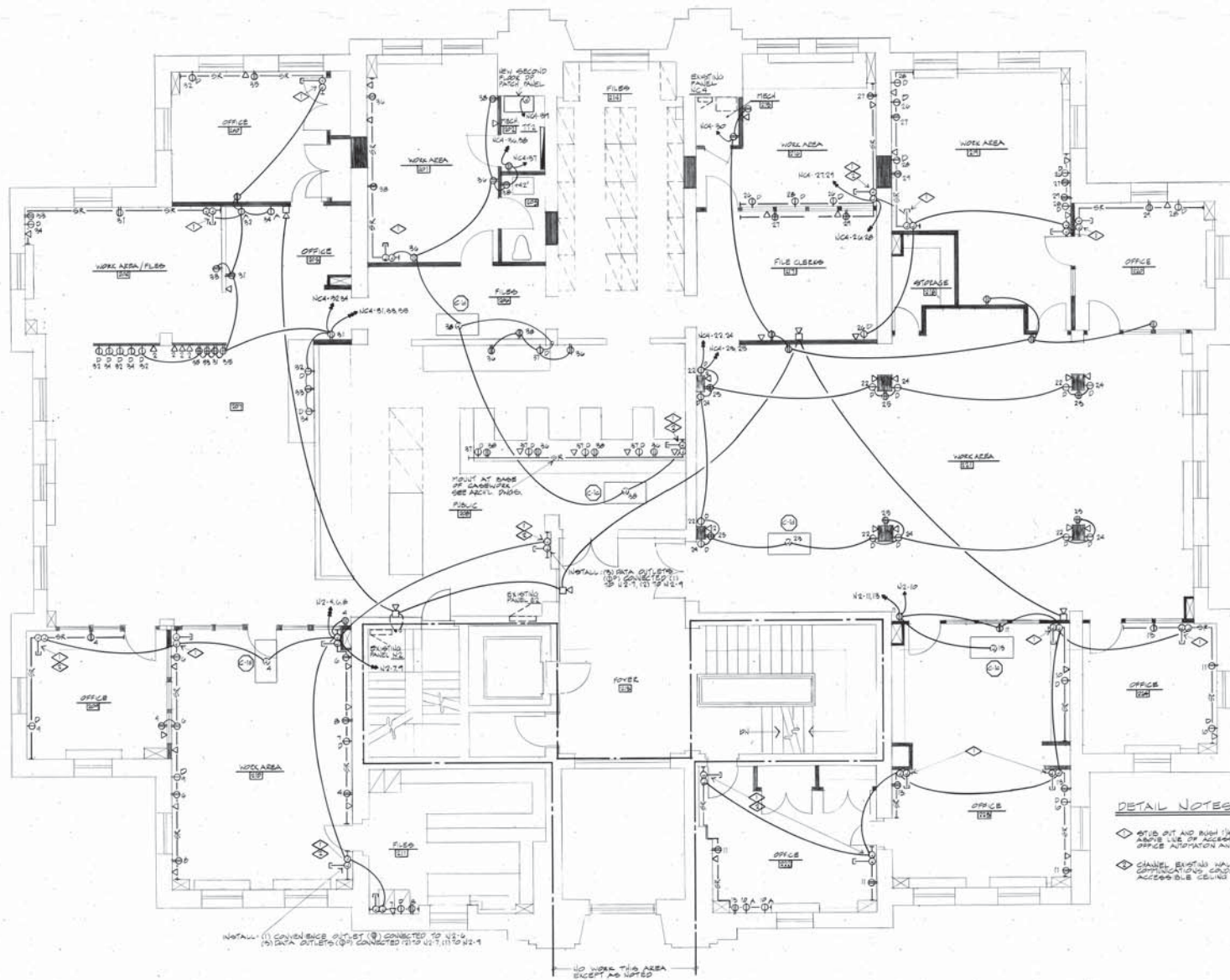
Renovation of the
Boulder County
Courthouse

Boulder County

Architect: Manning Knapp Wilton

Electrical Engineer: MKW

11/15/2006



DETAIL NOTES

- ◇ OTIS PIT AND RUSH IN COMMUNICATIONS CONDUIT TO ABOVE LINE OF ACCESSIBLE CEILING FOR DATA, OFFICE AUTOMATION AND TELEPHONE CABLES
- ◇ CHANNEL EXISTING SHALL ACCEPT POWER AND/OR COMMUNICATIONS CONDUIT TO ABOVE LINE OF ACCESSIBLE CEILING

NOTES: (1) CONDUIT SIZE (2) (3) CONNECTED TO LEVEL 1
(4) DATA OUTLET (5) CONNECTED TO LEVEL 1 (1) TO (2) 1

SECOND LEVEL POWER PLAN

SCALE: 1/4" = 1'-0"



DATE: 11/15/06
DRAWN: J.W.A.
CHECKED: T.W.P.
DATE: 11/15/06

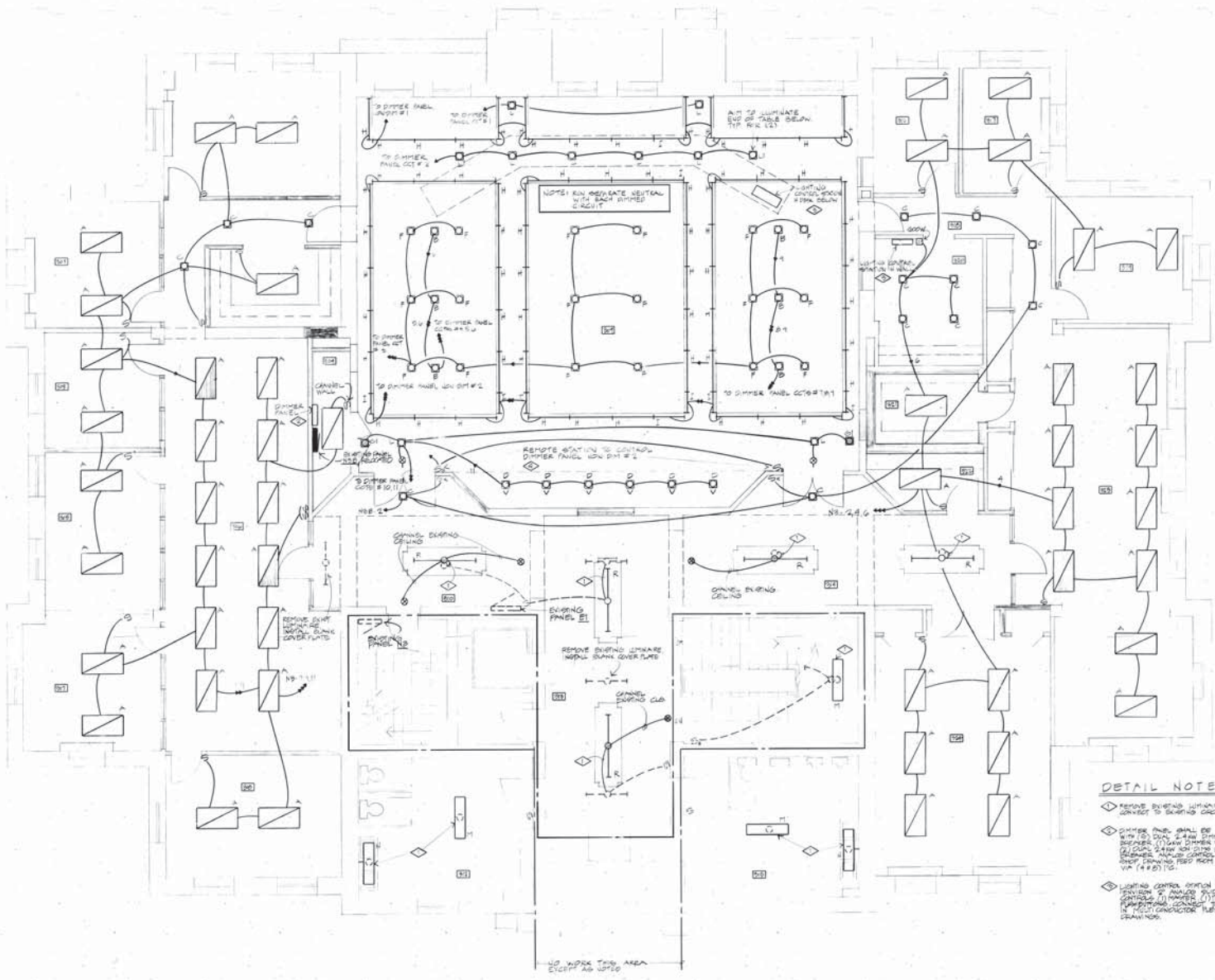
SHEET TITLE: RENOVATION OF BOULDER COUNTY COURTHOUSE - POWER PLAN

REVISIONS:
2/1/06
4/1/06



Renovation of the
Boulder County Courthouse

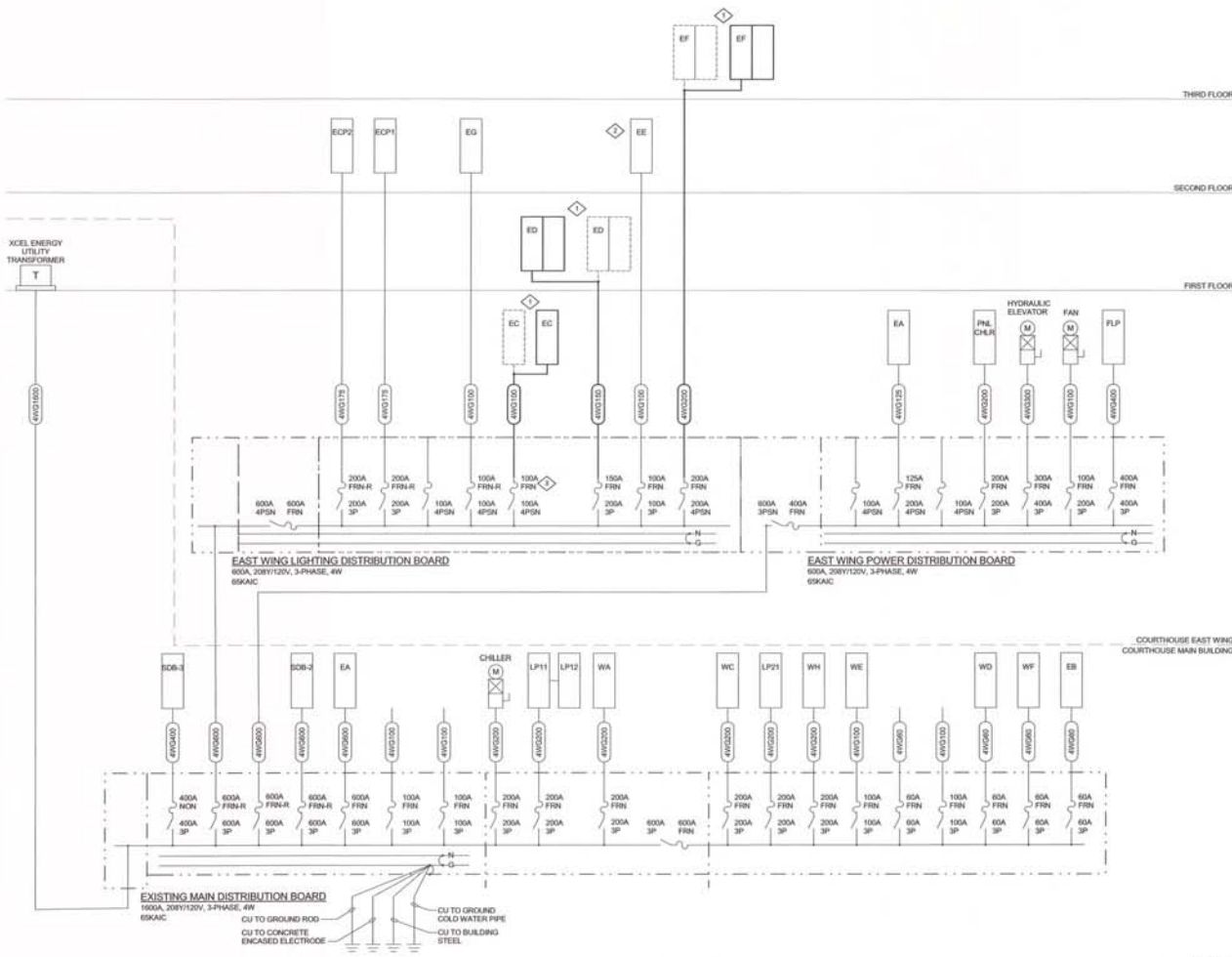
Boulder County
1005 South 10th Street, Suite 300
Boulder, CO 80502
303.440.1347
Manning Knapp Walton Architects and Planners Inc.
1005 South 10th Street, Suite 300
Boulder, CO 80502
303.440.1347
Moffatt Koenig & Erbe
1005 South 10th Street, Suite 300
Boulder, CO 80502
303.440.1347
JIT Collaborative Associates Inc.
1005 South 10th Street, Suite 300
Boulder, CO 80502
303.440.1347



DETAIL NOTES

- ◇ REMOVE EXISTING LUMINAIRE INSTALL NEW LUMINAIRE, CONNECT TO EXISTING CIRCUIT.
- ◇ DIMMER PANEL SHALL BE GRAND CENTRAL DIMMER 2' WITH 120 VOLT, 2.4 AMP DIMMER SWITCH WITH (1) 1/2\"/>

THIRD LEVEL LIGHTING PLAN THIRD LEVEL-PHASE 3
SCALE: 1/8" = 1'-0"



EXISTING ELECTRICAL ONE-LINE DIAGRAM
SCALE: NO SCALE

GENERAL NOTES:

- REFER TO FAULT CURRENT SCHEDULE FOR AVAILABLE FAULTS AT THE MAIN ELECTRICAL EQUIPMENT
- SEE PANEL SCHEDULES ON E701 FOR INFORMATION ON NEWLY INSTALLED PANELBOARDS.

WORK NOTES:

- ◇ PANEL TO BE DEMOLISHED AND REPLACED WITH NEW. SEE PANEL SCHEDULES ON E701 FOR PANELBOARD INFORMATION. RECONNECT ALL REMAINING EXISTING CIRCUITS IN ADDITION TO ANY NEW CIRCUITS SHOWN ON E701.
- ◇ PANEL TO BE WORKED ON IN THIS PROJECT.
- ◇ EXISTING FUSES TO BE REPLACED WITH NEW.

FEEDER TABLE				
OVERCURRENT DEVICE SETTING	THREE WIRE + GROUND		FOUR WIRE + GROUND	
	FEEDER IDENTIFIER	COPPER CONDUCTORS INSULATION PER SPECIFICATIONS	FEEDER IDENTIFIER	COPPER CONDUCTORS INSULATION PER SPECIFICATIONS
20	3W020	(M12 + 1W020)2TC	4W020	(M12 + 1W020)4TC
30	3W030	(M12 + 1W030)2TC	4W030	(M12 + 1W030)4TC
40	3W040	(M12 + 1W040)2TC	4W040	(M12 + 1W040)4TC
50	3W050	(M12 + 1W050)2TC	4W050	(M12 + 1W050)4TC
60	3W060	(M12 + 1W060)2TC	4W060	(M12 + 1W060)4TC
70	3W070	(M12 + 1W070)2TC	4W070	(M12 + 1W070)4TC
100	3W100	(M12 + 1W100)2TC	4W100	(M12 + 1W100)4TC
125	3W125	(M12 + 1W125)2TC	4W125	(M12 + 1W125)4TC
150	3W150	(M12 + 1W150)2TC	4W150	(M12 + 1W150)4TC
175	3W175	(M12 + 1W175)2TC	4W175	(M12 + 1W175)4TC
200	3W200	(M12 + 1W200)2TC	4W200	(M12 + 1W200)4TC
225	3W225	(M12 + 1W225)2TC	4W225	(M12 + 1W225)4TC
250	3W250	(M12 + 1W250)2TC	4W250	(M12 + 1W250)4TC
300	3W300	(M12 + 1W300)2TC	4W300	(M12 + 1W300)4TC
350	3W350	(M12 + 1W350)2TC	4W350	(M12 + 1W350)4TC
400	3W400	(M12 + 1W400)2TC	4W400	(M12 + 1W400)4TC
500	3W500	(M12 + 1W500)2TC	4W500	(M12 + 1W500)4TC
600	3W600	(M12 + 1W600)2TC	4W600	(M12 + 1W600)4TC
800	3W800	(M12 + 1W800)2TC	4W800	(M12 + 1W800)4TC
1000	3W1000	(M12 + 1W1000)2TC	4W1000	(M12 + 1W1000)4TC
1200	3W1200	(M12 + 1W1200)2TC	4W1200	(M12 + 1W1200)4TC
1500	3W1500	(M12 + 1W1500)2TC	4W1500	(M12 + 1W1500)4TC
2000	3W2000	(M12 + 1W2000)2TC	4W2000	(M12 + 1W2000)4TC
2500	3W2500	(M12 + 1W2500)2TC	4W2500	(M12 + 1W2500)4TC
3000	3W3000	(M12 + 1W3000)2TC	4W3000	(M12 + 1W3000)4TC

EXISTING MAIN DISTRIBUTION BOARD SUMMARY

LOAD REMOVED:	
POWER	-46.400KVA
LIGHTING	-138.000KVA
TOTAL LOAD REMOVED	-184.400KVA
LOAD ADDED:	
POWER	36.400KVA
LIGHTING	17.330KVA
TOTAL LOAD ADDED	53.730KVA

BASEMENT

FAULT CURRENT SCHEDULE												
Node ID	Node Description	Node Type	Line Voltage	Fault	F _{sc}	F _{av}	Other Data	Bus	Feeder Information	Conductor Type	Circuit Type	Open Feed Fault Location
0	Local Energy	Utility	480	0	1	500		Bus				50.620
1	1000V Bus	Bus	480	0	1	500		Bus				50.620
2	MEP	Panel	208	1	2	2		4000KCMIL	50	Cu	Mtg	43.352
3	LIGHTING DIST BOARD	Panel	208	2	3	3		4000KCMIL	220	Cu	Mtg	10.540
4	POWER DIST BOARD	Panel	208	2	4	4		4000KCMIL	220	Cu	Mtg	11.560
5	EC/CP	Panel	208	3	5	5		4000	70	Cu	Mtg	8.000
6	EC/CP	Panel	208	3	6	6		4000	70	Cu	Mtg	8.000
7	ED	Panel	208	3	7	7		40	60	Cu	Mtg	5.318
8	EC	Panel	208	3	8	8		41	18	Cu	Mtg	12.608
9	ED	Panel	208	3	9	9		41	50	Cu	Mtg	9.141
10	EP	Panel	208	3	10	10		41	60	Cu	Mtg	7.253
11	EP	Panel	208	3	11	11		4500	30	Cu	Mtg	8.368
12												

Boulder County

BUILDING SERVICES
DEPARTMENT ARCHITECT
DIVISION

2020 13TH ST.
BOULDER, CO 80502
P.O. BOX 471 BOULDER, CO
80506

PHONE: 303.441.3905
FAX: 303.441.1718

BCER
engineering

REGISTERED ELECTRICAL ENGINEER
3160

**BOULDER COUNTY
DOWNTOWN COURTHOUSE
EAST WING REMODEL**

PROJECT
DOWNTOWN
COURTHOUSE EAST WING
REMODEL

LOCATION
2025 14TH STREET
BOULDER, COLORADO
80502

SHEET
ELECTRICAL ONE-LINE
COURTHOUSE

FILE NAME
100000_ElectricalOneLine_Courthouse.dwg

ACCT 130096
DATE: 06/21/2017
DRAWN BY: JTB
CHECKED BY: GBJ

REVISIONS

SHEET
E201

DISCLAIMER OF WARRANTIES
ALL DRAWINGS, SPECIFICATIONS AND OTHER DESIGN PRODUCTS OF THE ENGINEER FOR THIS PROJECT ARE PREPARED BY THE ENGINEER ONLY. THE ENGINEER MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED BY THE CLIENT OR ANY OTHER PARTY. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE INSTALLATION OF THE PROJECT OR ANY OTHER PARTY. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE INSTALLATION OF THE PROJECT OR ANY OTHER PARTY. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE INSTALLATION OF THE PROJECT OR ANY OTHER PARTY.



- 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 SECTIONS AND ELEVATIONS FOR MOUNTING HEIGHTS AND SUSPENSION LENGTHS FOR LUMINAIRE.
 4. CONNECT EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO AREA LIGHTING CIRCUIT AHEAD OF SWITCH LEG.
 5. MAINTAIN ELECTRICAL CONTINUITY TO REMAINING DEVICES AND EQUIPMENT.
 6. LOCATIONS OF OCCUPANCY SENSORS ARE DIAGNAMTIC. OCCUPANCY SENSORS SERVING PUBLIC CORRIDORS, STAIRWAYS, AND RESTROOMS TO BE PROGRAMMED FULL AUTOMATIC ON ALL OTHER OCCUPANCY SENSORS SHALL BE PROGRAMMED MANUAL ON/AUTO OFF. OCCUPANCY SENSORS SHALL BE SET WITH A 15 MINUTE DELAY UNTIL OFF.

- WORK NOTES**
1. PHOTOSENSOR TO CONTROL LIGHTING WITHIN FENESTRATION ZONE (INSD MATCH 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. POWER DOWN LIGHT USING LOCAL LIGHTING CIRCUIT.

LIGHTING PLAN - SECOND FLOOR

3/16" = 1'-0"



DISCLAIMER OF WARRANTIES
 ALL DRAWINGS, SPECIFICATIONS AND OTHER WORK PRODUCTS 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 IN FULL. NO PART OF ANY OF THE INSTRUMENTS OF SERVICE OF THE ENGINEER OR THE CONTENTS OF ANY INSTRUMENT 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 ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED AND THE RESULTS OF ANY INSTRUMENTS OF SERVICE OF THE ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE ENGINEER. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE RESULTS OF ANY INSTRUMENTS OF SERVICE OF THE ENGINEER WHICH ARE NOT SHOWN OR REFERENCED IN THIS DOCUMENT.

Boulder County
 BUILDING SERVICES
 DEPARTMENT ARCHITECT
 DIVISION
 2020 13TH ST.
 BOULDER, CO 80502
 P.O. BOX 471 BOULDER, CO
 80506
 PHONE: 303.441.3900
 FAX: 303.441.1716

BCER
engineering



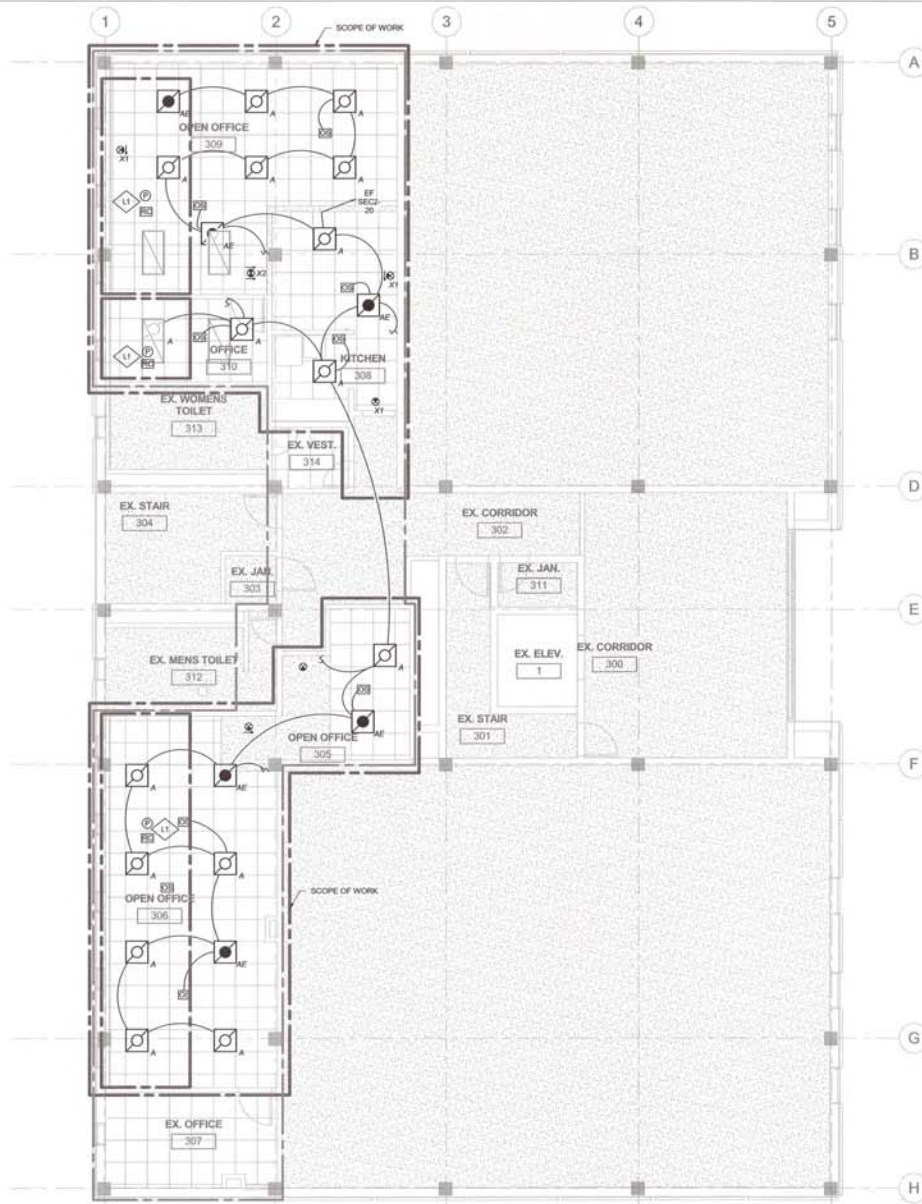
**BOULDER COUNTY
 DOWNTOWN COURTHOUSE
 EAST WING REMODEL**

PROJECT
 DOWNTOWN
 COURTHOUSE EAST WING
 REMODEL
 LOCATION
 2025 14TH STREET
 BOULDER, COLORADO
 80502
 SHEET
 LIGHTING PLAN - SECOND
 FLOOR
 FILE NAME
 101116 - Boulder County Courthouse
 East Wing Remodel.dwg
 ACCT 130098
 DATE: 06/21/2012
 DRAWN BY: SLS
 CHECKED BY: CRM

REVISIONS

NO.	DESCRIPTION

SHEET
E302



- 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 SECTIONS AND ELEVATIONS FOR MOUNTING HEIGHTS AND SUSPENSION LENGTHS FOR LUMINAIRE.
 4. CONNECT EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO AREA LIGHTING CIRCUIT AHEAD OF SWITCH LEG.
 5. MAINTAIN ELECTRICAL CONTINUITY TO REMAINING DEVICES AND EQUIPMENT.
 6. LOCATIONS OF OCCUPANCY SENSORS ARE DIAGRAMMATIC. OCCUPANCY SENSORS SERVING PUBLIC CORRIDORS, STAIRWAYS, AND RESTROOMS TO BE PROGRAMMED FULL AUTOMATIC ON ALL OTHER OCCUPANCY SENSORS SHALL BE PROGRAMMED MANUAL ON/AUTO OFF. OCCUPANCY SENSORS SHALL BE SET WITH A 15 MINUTE DELAY UNTIL OFF.

- WORK NOTES**
- 1.1 PHOTOSENSOR TO CONTROL LIGHTING WITHIN FENESTRATION ZONE (INSIDE MATCH LINES) VIA ROOM CONTROLLER. ONE LOW VOLTAGE SWITCH TO CONTROL FENESTRATION ZONE LIGHTING. ONE LOW VOLTAGE SWITCH TO CONTROL ALL OTHER LIGHTING WITHIN ROOM.

Boulder County

BUILDING SERVICES
DEPARTMENT ARCHITECT
DIVISION

2020 13TH ST.
BOULDER, CO 80502
P.O. BOX 471 BOULDER, CO
80506

PHONE: 303.441.3905
FAX: 303.441.1718

BCER
engineering



**BOULDER COUNTY
DOWNTOWN COURTHOUSE
EAST WING REMODEL**

PROJECT
DOWNTOWN
COURTHOUSE EAST WING
REMODEL

LOCATION
2025 14TH STREET
BOULDER, COLORADO
80502

SHEET
LIGHTING PLAN - THIRD
FLOOR

FILE NAME
06212012_Boulder County Courthouse
East Wing Remodel_067-017.rvt

ACCT 130096
DATE 06/21/2012
DRAWN BY SLD
CHECKED BY DRH

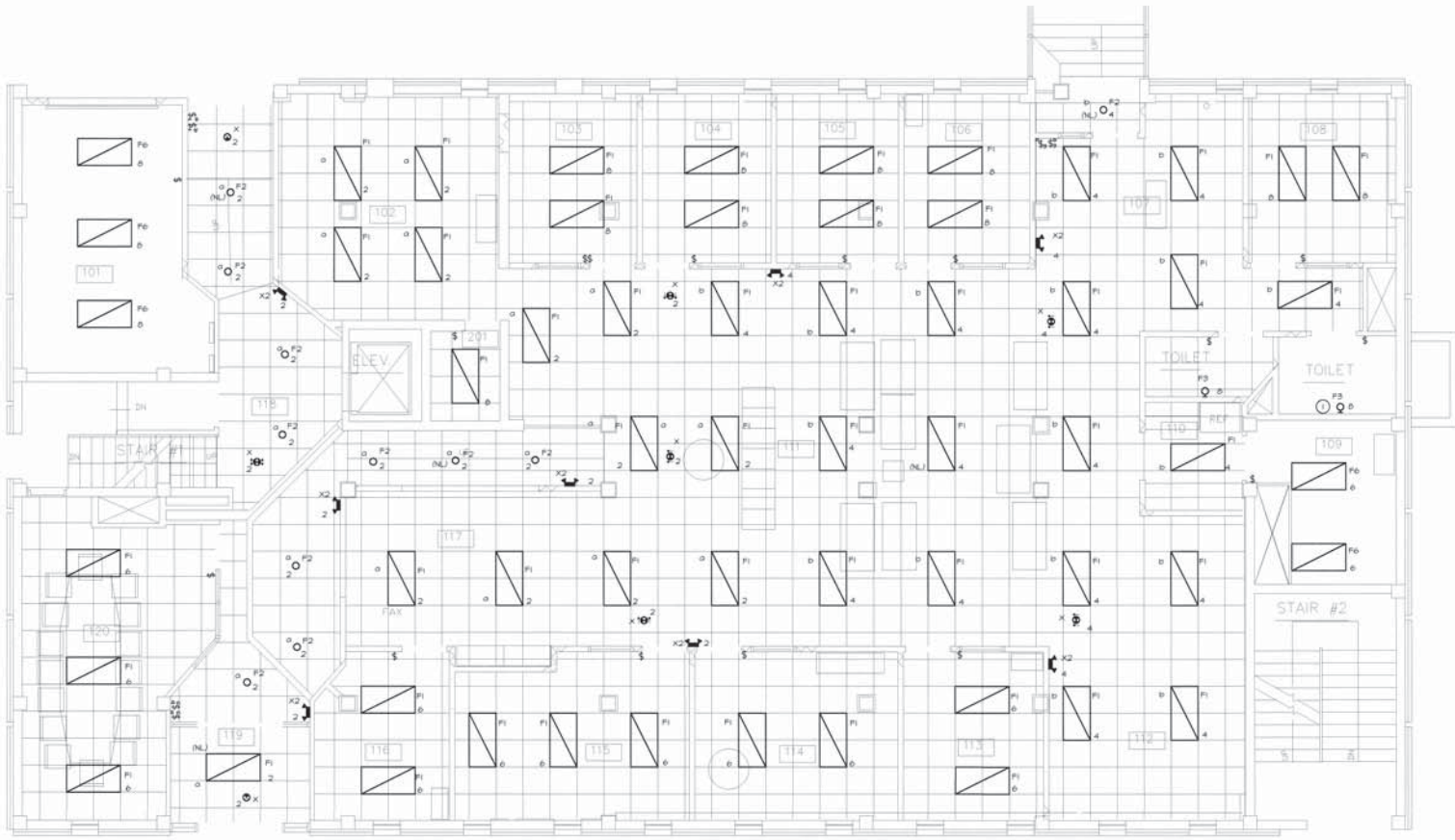
REVISIONS

LIGHTING PLAN - THIRD FLOOR
3/16" = 1'-0"



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SHEET
E303



KEY NOTES (THIS SHEET ONLY)

① INSTALL FIXTURE IN PLACE OF REMOVED FIXTURE.

E201 COURTHOUSE - WEST WING FIRST FLOOR LIGHTING PLAN SCALE: 1/4" = 1'-0"

REESE ENGINEERING, INC.
 4000 STREET, SUITE 400 BOULDER, COLORADO 80504
 303.440.4004 FAX: 303.440.4004
 ARCHITECTURAL, ENGINEERING & LIGHTING DESIGN



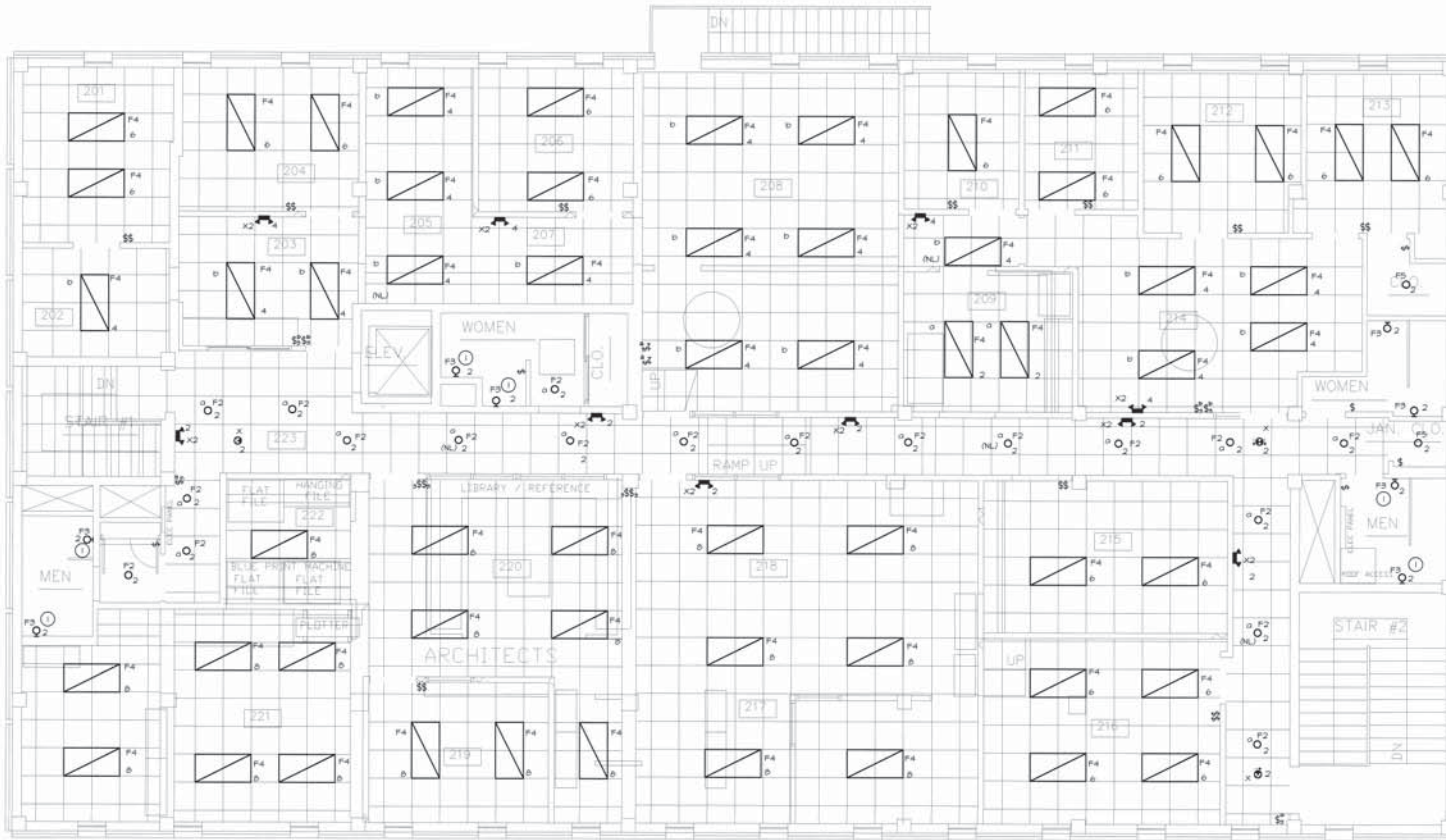
REVISIONS	DESCRIPTION	DATE
	FIRST FLOOR LIGHTING	AUGUST 21, 2000

PROJECT
 BOULDER COUNTY
 COURTHOUSE WEST WING
 REMODEL
 2020 15TH STREET
 BOULDER, COLORADO 80502

ARCHITECT
 ADMINISTRATIVE SERVICES
 DEPARTMENT
 COUNTY ARCHITECT DIVISION
 P.O. BOX 471
 BOULDER, CO. 80506
 PHONE: 303.440.4004
 FAX: 303.440.4004

SHEET
E201

DATE PLOTTED: 8/21/00 10:58 AM
 PLOTTER: HP PLOTTER
 PLOTTING: 303.440.4004
 USER: J. CHAMBERLAIN



KEY NOTES (THIS SHEET ONLY)

① INSTALL FIXTURE IN PLACE OF REMOVED FIXTURE.

1 COURTHOUSE - WEST WING SECOND FLOOR LIGHTING PLAN
 E202 SCALE: 1/4" = 1'-0"

REESE ENGINEERING, INC.
 44 COLOR STREET, SUITE 400, BOULDER, CO 80504
 303-441-2200
 ARCHITECTURAL, ENGINEERING & INTERIOR DESIGN



REVISIONS	DESCRIPTION	DATE
	SECOND FLOOR LIGHTING	AUGUST 21, 2000

PROJECT
 BOULDER COUNTY
 COURTHOUSE WEST WING
 REMODEL
 2000 15TH STREET
 BOULDER, COLORADO 80502

ARCHITECT
 ADMINISTRATIVE SERVICES
 COUNTY ARCHITECT DIVISION
 BOULDER, CO 80506
 PHONE: 303-441-2286
 FAX: 303-441-4524

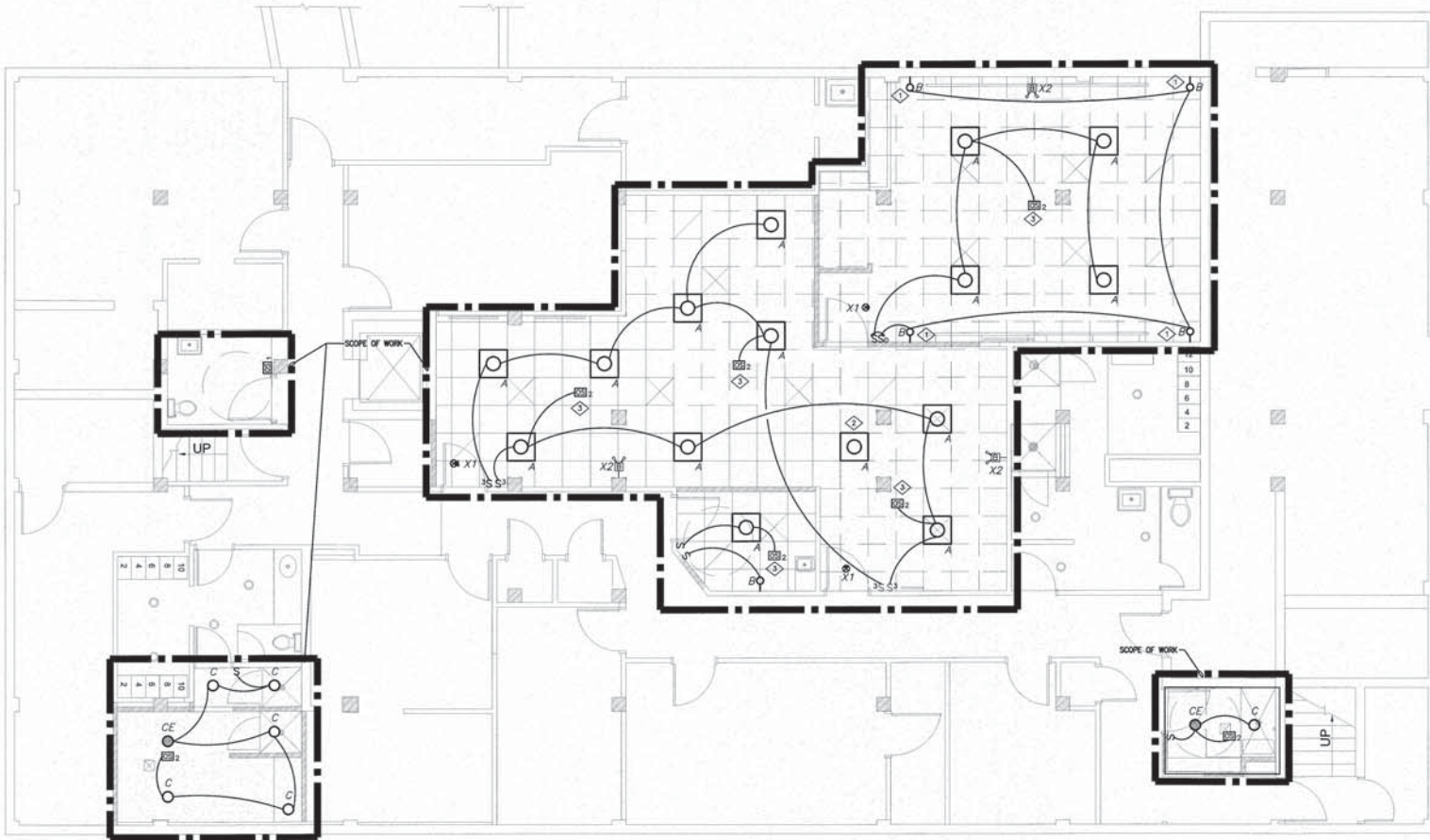
SHEET
E202



ADMINISTRATIVE SERVICES
DEPARTMENT
BUILDING SERVICES
DIVISION
2028 13TH STREET
BOULDER, CO 80502
P.O. BOX 471
BOULDER, CO 80306
PHONE 303 441 4826



BOULDER COUNTY
FITNESS AREA REMODEL



OCCUPANCY SENSOR LEGEND

SS1 MATI STOPPER DSW-301-W DUAL TECHNOLOGY WALL OCCUPANCY SENSOR.

SS2 MATI STOPPER DT-300-W DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR WITH BZ-150 POWER PACK.

NOTE: CONTRACTOR SHALL PROGRAM SENSORS TO BE CONTROLLED MANUAL ON/AUTO OFF AND TIMED PER OWNER'S REQUIREMENTS.

ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"
2' 1" 0 2' 4" 8'

LUMINAIRE SCHEDULE											
KEY	QTY.	LAMP TYPE	BULK/HT	DESCRIPTION	VOLT	FINISH	MOUNTING TYPE	DEPTH	MANUFACTURER	VA	NOTES
A	1	LED	---	2'x2' RECESSED TROFFER	120	WHITE	RECESSED	3-1/2"	METALUX: Z2SR-LQ2-29-C-UMW-L835-CD1-SWP01	23.4	
B	1	LED	---	PITCH SINGLE WALL SCONCE	120	BLACK	SURFACE	---	TECH LIGHTING: 700WSP1 0 B -LED030	10	
C	1	LED	---	NET LOCATION RATED DOWNLIGHT	120	MATTE WHITE	RECESSED	5-7/8"	METALUX: LD68300010 EU6830509035 6LBM1LU	28	
CE	1	LED	---	NET LOCATION RATED DOWNLIGHT W/ BATTERY BACK UP	120	MATTE WHITE	RECESSED	5-7/8"	METALUX: LD68300010EM7 EU6830509035 6LBM1LU	28	
X1	1	LED	---	EXIT LIGHT WITH BATTERY, GREEN LETTERS AND FACEPLATE ARROWS AS REQUIRED	120	WHITE	SURFACE	---	LITHONIA: LHM S W G 120/277 EL N SD	1.5	
X2	1	LED	---	DUAL HEAD EMERGENCY LIGHT	120	WHITE	SURFACE	---	LITHONIA: ELM2 LED 50	3	

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

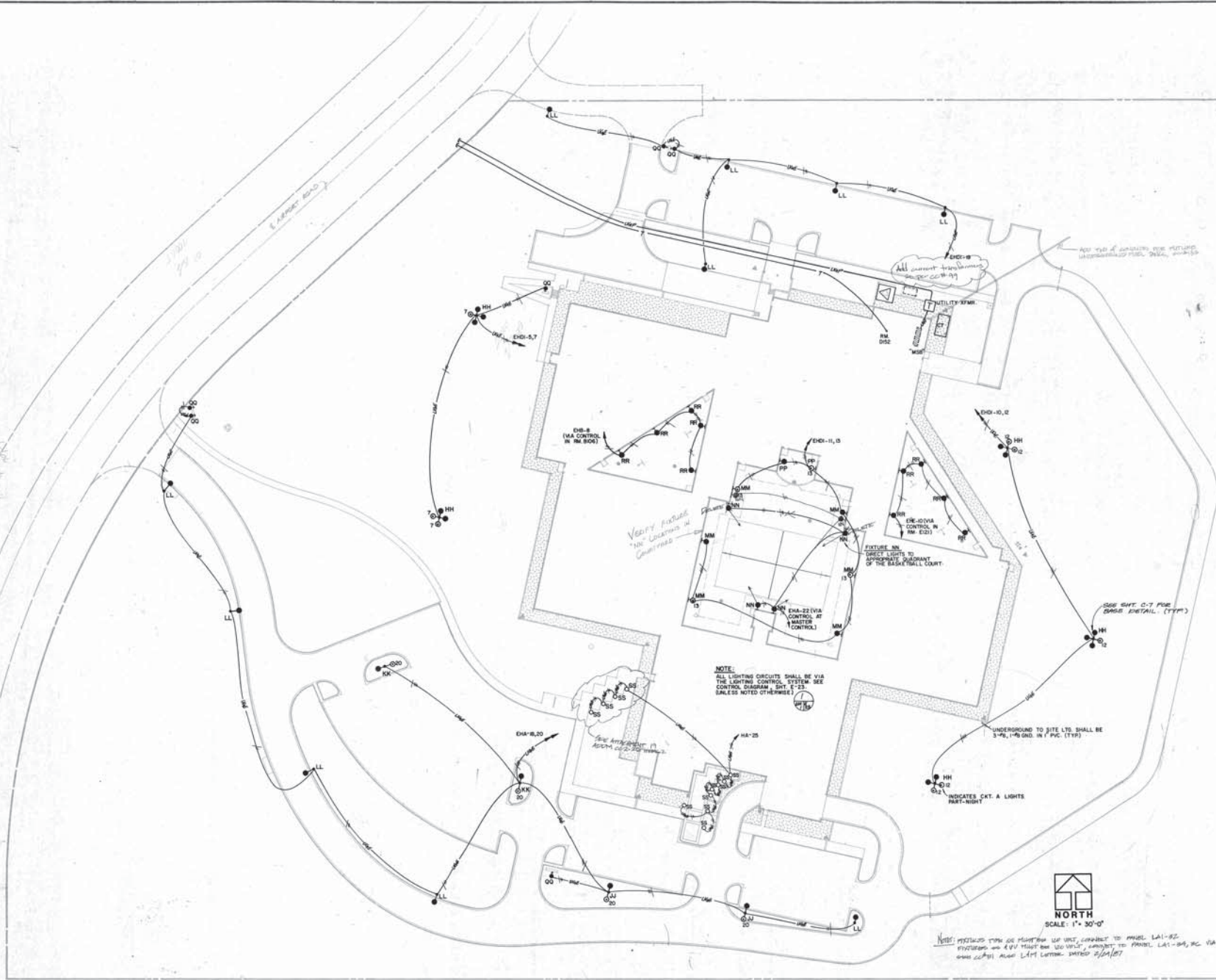
- GENERAL NOTES**
- LIGHT TEXT AND LIGHT LINES INDICATE EXISTING. DARK TEXT AND SOLID LINES INDICATE NEW WORK.
 - EACH BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS ARE NOT PERMITTED IN MULTIPLE CIRCUIT HOMERUNS.
 - REFER TO ARCHITECTURAL SECTIONS AND ELEVATIONS FOR MOUNTING HEIGHTS AND SUSPENSION LENGTHS FOR LUMINAIRES.
 - CONNECT EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO EMERGENCY LIGHTING CIRCUIT TO THIS AREA FED BY PANEL 2A.
 - LOCATION OF OCCUPANCY SENSORS ARE DIAGRAMMATIC. CONTRACTOR TO COORDINATE OCCUPANCY SENSOR LAYOUT AND QUANTITY WITH ACTUAL DEVICE TO BE USED. OCCUPANCY SENSORS SHALL BE SET WITH A 15 MINUTE DELAY UNTIL OFF.
 - ALL LIGHTING TO BE POWERED BY EXISTING LIGHTING CIRCUIT SERVING THIS AREA. TOTAL WATTAGE OF FIXTURES HAS DECREASED DURING REMODEL.

- WORK NOTES**
- ALL WALL SCONCES TO BE CONTROLLED VIA DIMMER.
 - LAMP SHALL REMAIN ON 24 HOURS A DAY.
 - OCCUPANCY SENSOR SHALL DEENERGIZE LIGHTING IN EVERY ZONE WITHIN THIS ROOM.

PROJECT
COURTHOUSE WEST WING
BOULDER COUNTY
LOCATION
BOULDER, CO
2028 13TH STREET
SHEET
ELECTRICAL LIGHTING PLAN
FILE NAME
E4 LIGHTING PLAN
AUTH: [blank]
DATE: 1.27.2017 PERMIT
DRAWN BY: [blank]
CHECKED BY: [blank]

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
 ALL LIGHTING CIRCUITS SHALL BE VIA
 THE LIGHTING CONTROL SYSTEM. SEE
 CONTROL DIAGRAM - SPT E-23
 (UNLESS NOTED OTHERWISE)



SCALE: 1" = 30'-0"

Notes: PITCHED TRAY JOE ROOFING TO BE CONNECTED TO PANEL LA1-02.
 FIXTURES AND LVS MUST BE L20 UNLS. SUBJECT TO PANEL LA1-04, 05, 06 VIA LIGHTING CONTROL
 AND C-011 ALSO LAMP LUTING SHOWN 2/21/07



ELECTRICAL SITE UTILITIES PLAN

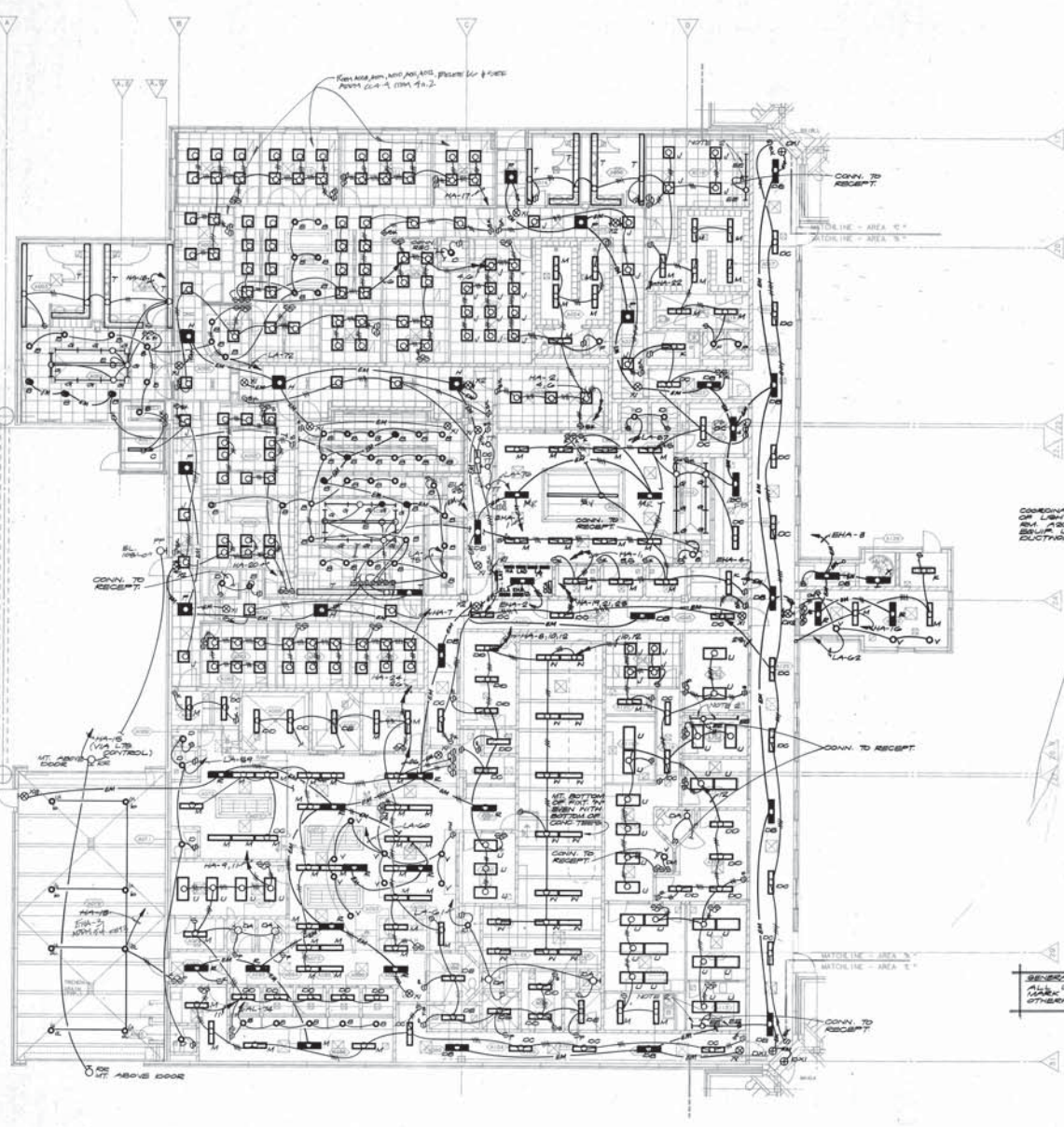
EM-1
 1005685
 6-25-86

BOULDER COUNTY JAIL

SCHER AND MAHONEY ARCHITECTS AND ENGINEERS

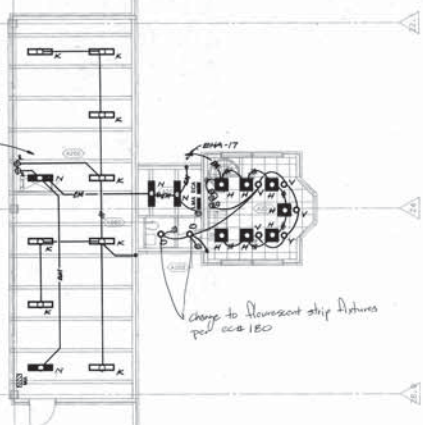


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NO.	DESCRIPTION	WIRING	DATE
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COORDINATE PANELS AND BOLLARDS WITH INSTALL-CUT PANELS AS PER ARCH. COMM.



COORDINATE INSTALLATION OF LIGHT FIXTURES IN BOX ABOVE HATCHESCH. BEHIND LIGHTING ELECTRICAL WIRING

change to fluorescent strip fixtures per 02-180

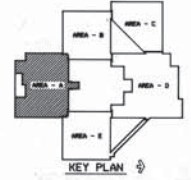


LIGHTING PLAN - MEZZANINE AREA A

SCALE: 1/8"=1'-0"
 ADD LIGHTING FIXTURES PANEL SCHEDULE: REFER TO ATT. #20 TO ARCH. CO. 2/1/86 +0-2-25 1001 650.

- NOTES:
1. REFER TO SHEET PLACE SCHED. J-BOX DETAIL (TYPE ALL LIGHTS.)
 2. MOUNT J-BOX FOR FIXTURES 18" HORIZONTALLY AT 86 1/2" AFF.
 3. SEE BLDG. SMV FOR ADDITIONAL EXTERIOR WALL MTD. LTB. FIXT. LOCATIONS.

GENERAL NOTE:
 ALL LIGHT FIXTURES SHALL BE MADE AS UNLESS NOTED OTHERWISE.

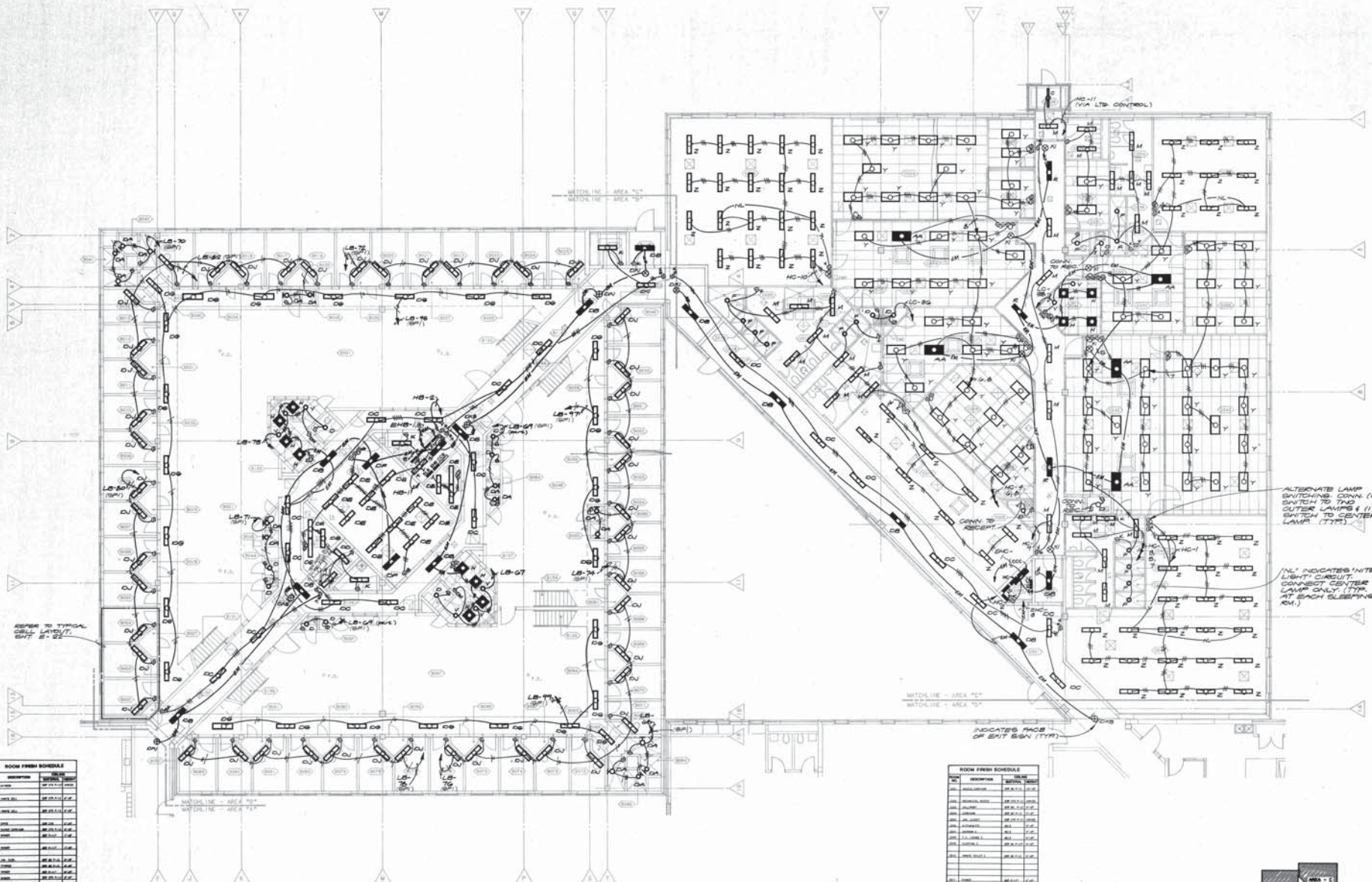


LIGHTING PLAN - AREA A

SCALE: 1/8"=1'-0"
 NORTH

FIRST LEVEL LIGHTING PLAN - AREA A

105666
 6-25-86



ROOM FINISH SCHEDULE

NO.	DESCRIPTION	FINISH
01	CEILING	AC-A
02	FLOOR	AC-B
03	WALL	AC-C
04	DOOR	AC-D
05	WINDOW	AC-E
06	STAIR	AC-F
07	ELEVATOR	AC-G
08	MECHANICAL	AC-H
09	ELECTRICAL	AC-I
10	PLUMBING	AC-J
11	PAINT	AC-K
12	GLASS	AC-L
13	METAL	AC-M
14	WOOD	AC-N
15	CONCRETE	AC-O
16	BRICK	AC-P
17	STONE	AC-Q
18	OTHER	AC-R

ROOM FINISH SCHEDULE

NO.	DESCRIPTION	FINISH
01	CEILING	AC-A
02	FLOOR	AC-B
03	WALL	AC-C
04	DOOR	AC-D
05	WINDOW	AC-E
06	STAIR	AC-F
07	ELEVATOR	AC-G
08	MECHANICAL	AC-H
09	ELECTRICAL	AC-I
10	PLUMBING	AC-J
11	PAINT	AC-K
12	GLASS	AC-L
13	METAL	AC-M
14	WOOD	AC-N
15	CONCRETE	AC-O
16	BRICK	AC-P
17	STONE	AC-Q
18	OTHER	AC-R

ROOM FINISH SCHEDULE

NO.	DESCRIPTION	FINISH
01	CEILING	AC-A
02	FLOOR	AC-B
03	WALL	AC-C
04	DOOR	AC-D
05	WINDOW	AC-E
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07	ELEVATOR	AC-G
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09	ELECTRICAL	AC-I
10	PLUMBING	AC-J
11	PAINT	AC-K
12	GLASS	AC-L
13	METAL	AC-M
14	WOOD	AC-N
15	CONCRETE	AC-O
16	BRICK	AC-P
17	STONE	AC-Q
18	OTHER	AC-R



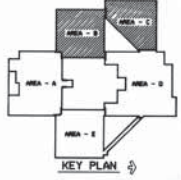
LIGHTING PLAN - AREAS B & C
SCALE: 1/8"=1'-0"

ROOM FINISH SCHEDULE

NO.	DESCRIPTION	FINISH
01	CEILING	AC-A
02	FLOOR	AC-B
03	WALL	AC-C
04	DOOR	AC-D
05	WINDOW	AC-E
06	STAIR	AC-F
07	ELEVATOR	AC-G
08	MECHANICAL	AC-H
09	ELECTRICAL	AC-I
10	PLUMBING	AC-J
11	PAINT	AC-K
12	GLASS	AC-L
13	METAL	AC-M
14	WOOD	AC-N
15	CONCRETE	AC-O
16	BRICK	AC-P
17	STONE	AC-Q
18	OTHER	AC-R

ROOM FINISH SCHEDULE

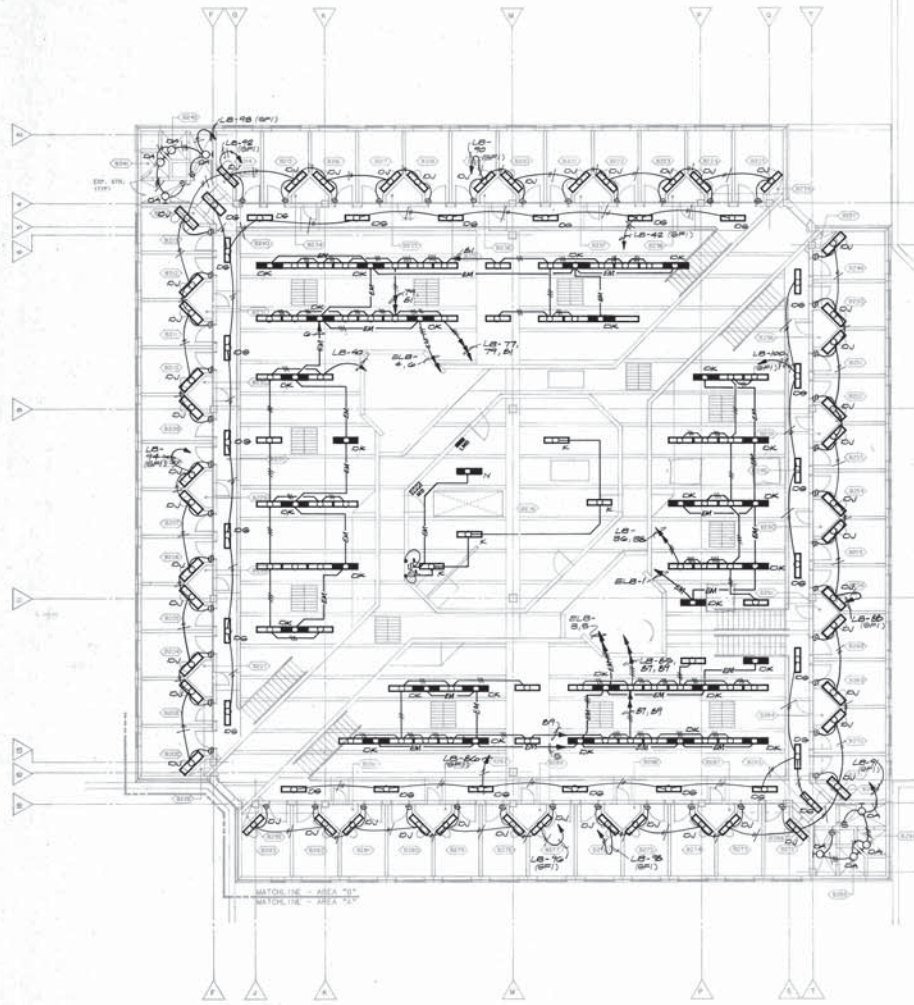
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02	FLOOR	AC-B
03	WALL	AC-C
04	DOOR	AC-D
05	WINDOW	AC-E
06	STAIR	AC-F
07	ELEVATOR	AC-G
08	MECHANICAL	AC-H
09	ELECTRICAL	AC-I
10	PLUMBING	AC-J
11	PAINT	AC-K
12	GLASS	AC-L
13	METAL	AC-M
14	WOOD	AC-N
15	CONCRETE	AC-O
16	BRICK	AC-P
17	STONE	AC-Q
18	OTHER	AC-R



ALTERNATE LAMP SWITCHING CONN. (1) SWITCH TO TRIP OUTER LAMPS & (1) SWITCH TO CENTER LAMP (TYP.)

N.L. INDICATES INTR-LIGHT CIRCUIT. CONNECT CENTER LAMP ONLY (TYP. AT EACH SLEEPING RM.)

FIRST LEVEL LIGHTING PLAN - AREAS B & C



LIGHTING AND POWER SHUTDOWN PANEL "RLB1"					
RELAY NO.	CIRCUIT NO.	CONTROL LOCATION	CIRCUIT NO.	RELAY NO.	
1	LB-77	B102	B102	LB-2	33
2	LB-77			LB-11	34
3	LB-81			LB-7	35
4	LB-46			LB-7	36
5	LB-42			LB-9	37
6	LB-75			LB-9	38
7	LB-74			LB-7	39
8	LB-72			LB-18	40
9	LB-70			LB-15	41
10	LB-80			LB-16	42
11	LB-82			LB-14	43
12	LB-72			SPRINK	44
13	LB-78			SPRINK	45
14	LB-70			SPRINK	46
15	LB-71				47
16	LB-54				48
17	LB-62				49
18	LB-55				50
19	LB-48				51
20	LB-44				52
21	LB-44				53
22	LB-58				54
23	LB-51				55
24	LB-49				56
25	LB-47				57
26	LB-45				58
27	LB-45				59
28	LB-12				60
29	LB-10				61
30	LB-8				62
31	LB-6				63
32	LB-4				64

LIGHTING AND POWER SHUTDOWN PANEL "RLB2"					
RELAY NO.	CIRCUIT NO.	CONTROL LOCATION	CIRCUIT NO.	RELAY NO.	
1	LB-30	B100	B100	LB-62	33
2	LB-26			LB-60	34
3	LB-20			LB-58	35
4	LB-77			LB-56	36
5	LB-86			LB-54	37
6	LB-74			LB-28	38
7	LB-67			LB-27	39
8	LB-55			LB-26	40
9	LB-67			LB-28	41
10	LB-57			LB-27	42
11	LB-61			LB-77	43
12	LB-18			LB-17	44
13	LB-24			LB-27	45
14	LB-22			LB-21	46
15	LB-24			SPRINK	47
16	LB-31			SPRINK	48
17	LB-34			SPRINK	49
18	LB-54			SPRINK	50
19	LB-87				51
20	LB-87				52
21	LB-86				53
22	LB-77				54
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24	LB-75				56
25	LB-74				57
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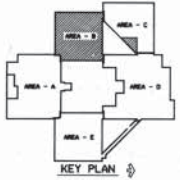
SERVING PANEL "LB"

SERVING PANEL "LB"

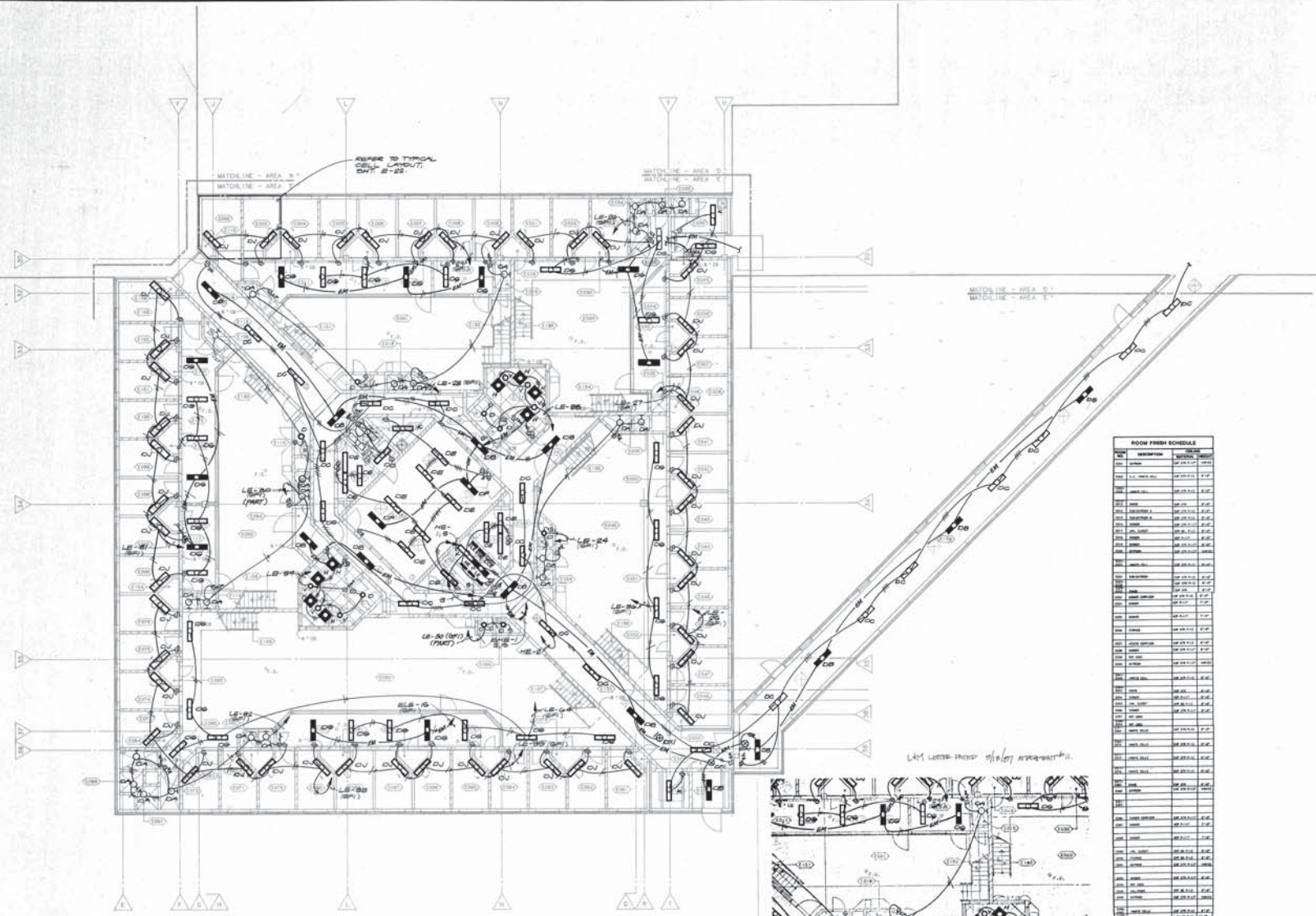
GENERAL NOTE:
ALL LTR FIXTURES SHALL BE MARKED WITH THE FOLLOWING NUMBERS IN THE LOCATIONS NOTED OTHERWISE

NOTE: COORDINATE INSTALLATION OF THE FIXTURES IN THIS AREA WITH THE MECHANICAL EQUIPMENT LOCATIONS, DUCTS, PIPING, & FLOORING.

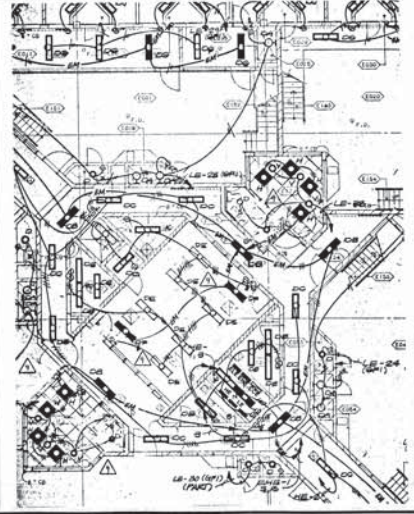
ROOM FINISH SCHEDULE		
NO.	DESCRIPTION	FINISH
001	CEILING	2X4 TYP.
002	CEILING	2X4 TYP.
003	CEILING	2X4 TYP.
004	CEILING	2X4 TYP.
005	CEILING	2X4 TYP.
006	CEILING	2X4 TYP.
007	CEILING	2X4 TYP.
008	CEILING	2X4 TYP.
009	CEILING	2X4 TYP.
010	CEILING	2X4 TYP.
011	CEILING	2X4 TYP.
012	CEILING	2X4 TYP.
013	CEILING	2X4 TYP.
014	CEILING	2X4 TYP.
015	CEILING	2X4 TYP.
016	CEILING	2X4 TYP.
017	CEILING	2X4 TYP.
018	CEILING	2X4 TYP.
019	CEILING	2X4 TYP.
020	CEILING	2X4 TYP.
021	CEILING	2X4 TYP.
022	CEILING	2X4 TYP.
023	CEILING	2X4 TYP.
024	CEILING	2X4 TYP.
025	CEILING	2X4 TYP.
026	CEILING	2X4 TYP.
027	CEILING	2X4 TYP.
028	CEILING	2X4 TYP.
029	CEILING	2X4 TYP.
030	CEILING	2X4 TYP.
031	CEILING	2X4 TYP.
032	CEILING	2X4 TYP.
033	CEILING	2X4 TYP.
034	CEILING	2X4 TYP.
035	CEILING	2X4 TYP.
036	CEILING	2X4 TYP.
037	CEILING	2X4 TYP.
038	CEILING	2X4 TYP.
039	CEILING	2X4 TYP.
040	CEILING	2X4 TYP.
041	CEILING	2X4 TYP.
042	CEILING	2X4 TYP.
043	CEILING	2X4 TYP.
044	CEILING	2X4 TYP.
045	CEILING	2X4 TYP.
046	CEILING	2X4 TYP.
047	CEILING	2X4 TYP.
048	CEILING	2X4 TYP.
049	CEILING	2X4 TYP.
050	CEILING	2X4 TYP.
051	CEILING	2X4 TYP.
052	CEILING	2X4 TYP.
053	CEILING	2X4 TYP.
054	CEILING	2X4 TYP.
055	CEILING	2X4 TYP.
056	CEILING	2X4 TYP.
057	CEILING	2X4 TYP.
058	CEILING	2X4 TYP.
059	CEILING	2X4 TYP.
060	CEILING	2X4 TYP.
061	CEILING	2X4 TYP.
062	CEILING	2X4 TYP.
063	CEILING	2X4 TYP.
064	CEILING	2X4 TYP.
065	CEILING	2X4 TYP.
066	CEILING	2X4 TYP.
067	CEILING	2X4 TYP.
068	CEILING	2X4 TYP.
069	CEILING	2X4 TYP.
070	CEILING	2X4 TYP.
071	CEILING	2X4 TYP.
072	CEILING	2X4 TYP.
073	CEILING	2X4 TYP.
074	CEILING	2X4 TYP.
075	CEILING	2X4 TYP.
076	CEILING	2X4 TYP.
077	CEILING	2X4 TYP.
078	CEILING	2X4 TYP.
079	CEILING	2X4 TYP.
080	CEILING	2X4 TYP.
081	CEILING	2X4 TYP.
082	CEILING	2X4 TYP.
083	CEILING	2X4 TYP.
084	CEILING	2X4 TYP.
085	CEILING	2X4 TYP.
086	CEILING	2X4 TYP.
087	CEILING	2X4 TYP.
088	CEILING	2X4 TYP.
089	CEILING	2X4 TYP.
090	CEILING	2X4 TYP.
091	CEILING	2X4 TYP.
092	CEILING	2X4 TYP.
093	CEILING	2X4 TYP.
094	CEILING	2X4 TYP.
095	CEILING	2X4 TYP.
096	CEILING	2X4 TYP.
097	CEILING	2X4 TYP.
098	CEILING	2X4 TYP.
099	CEILING	2X4 TYP.
100	CEILING	2X4 TYP.



LIGHTING PLAN - MEZZANINE AREAS B & C
SCALE: 1/8" = 1'-0"
NOTE: 1. SEE AREA 756 FOR FINISH.

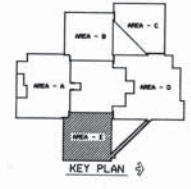


LIGHTING PLAN - AREA E
SCALE: 1/8"=1'-0"
NORTH

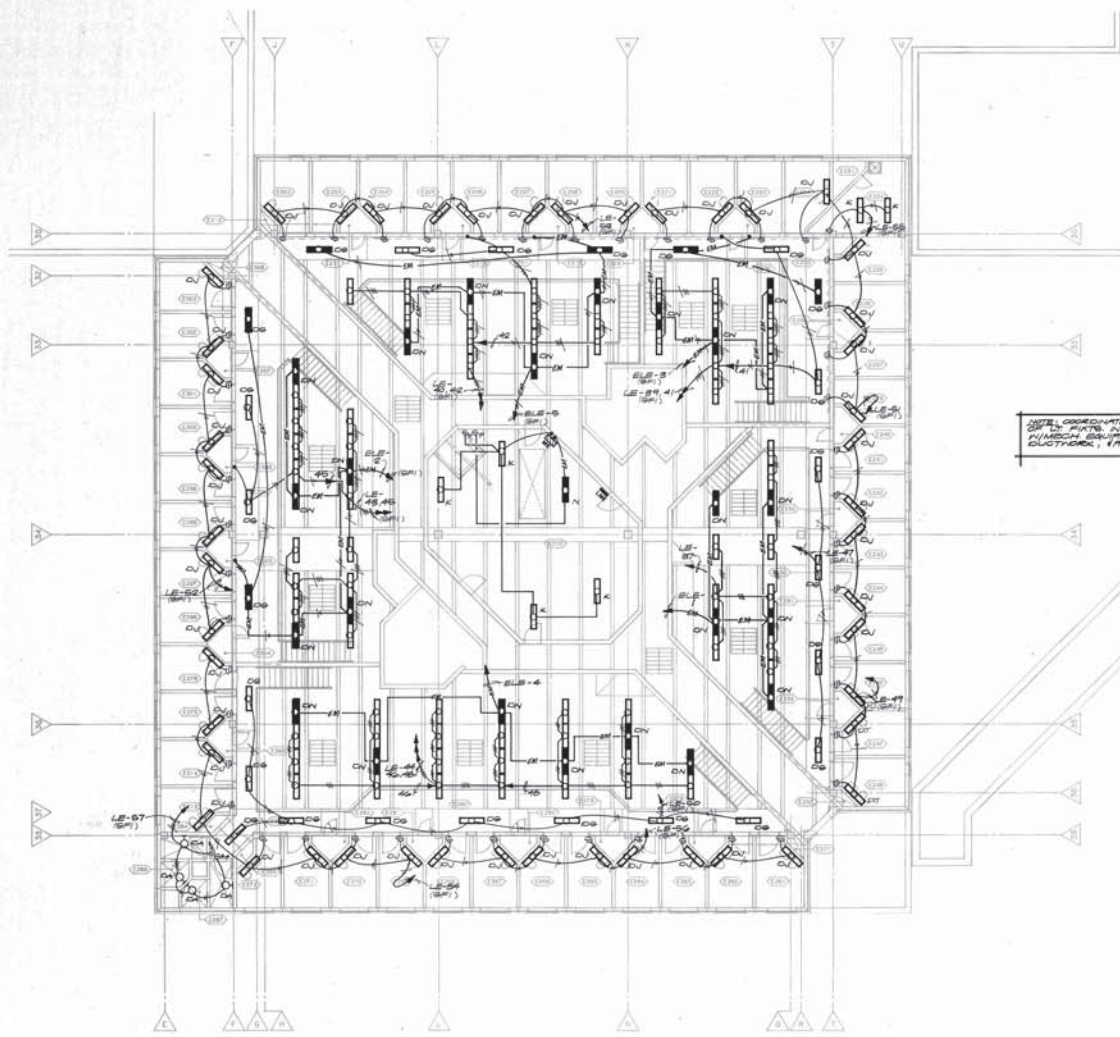


ROOM FRESH SCHEDULE

NO.	DESCRIPTION	QUANTITY	UNIT
101	101-001	1	101-001
102	101-002	1	101-002
103	101-003	1	101-003
104	101-004	1	101-004
105	101-005	1	101-005
106	101-006	1	101-006
107	101-007	1	101-007
108	101-008	1	101-008
109	101-009	1	101-009
110	101-010	1	101-010
111	101-011	1	101-011
112	101-012	1	101-012
113	101-013	1	101-013
114	101-014	1	101-014
115	101-015	1	101-015
116	101-016	1	101-016
117	101-017	1	101-017
118	101-018	1	101-018
119	101-019	1	101-019
120	101-020	1	101-020
121	101-021	1	101-021
122	101-022	1	101-022
123	101-023	1	101-023
124	101-024	1	101-024
125	101-025	1	101-025
126	101-026	1	101-026
127	101-027	1	101-027
128	101-028	1	101-028
129	101-029	1	101-029
130	101-030	1	101-030
131	101-031	1	101-031
132	101-032	1	101-032
133	101-033	1	101-033
134	101-034	1	101-034
135	101-035	1	101-035
136	101-036	1	101-036
137	101-037	1	101-037
138	101-038	1	101-038
139	101-039	1	101-039
140	101-040	1	101-040
141	101-041	1	101-041
142	101-042	1	101-042
143	101-043	1	101-043
144	101-044	1	101-044
145	101-045	1	101-045
146	101-046	1	101-046
147	101-047	1	101-047
148	101-048	1	101-048
149	101-049	1	101-049
150	101-050	1	101-050
151	101-051	1	101-051
152	101-052	1	101-052
153	101-053	1	101-053
154	101-054	1	101-054
155	101-055	1	101-055
156	101-056	1	101-056
157	101-057	1	101-057
158	101-058	1	101-058
159	101-059	1	101-059
160	101-060	1	101-060
161	101-061	1	101-061
162	101-062	1	101-062
163	101-063	1	101-063
164	101-064	1	101-064
165	101-065	1	101-065
166	101-066	1	101-066
167	101-067	1	101-067
168	101-068	1	101-068
169	101-069	1	101-069
170	101-070	1	101-070
171	101-071	1	101-071
172	101-072	1	101-072
173	101-073	1	101-073
174	101-074	1	101-074
175	101-075	1	101-075
176	101-076	1	101-076
177	101-077	1	101-077
178	101-078	1	101-078
179	101-079	1	101-079
180	101-080	1	101-080
181	101-081	1	101-081
182	101-082	1	101-082
183	101-083	1	101-083
184	101-084	1	101-084
185	101-085	1	101-085
186	101-086	1	101-086
187	101-087	1	101-087
188	101-088	1	101-088
189	101-089	1	101-089
190	101-090	1	101-090
191	101-091	1	101-091
192	101-092	1	101-092
193	101-093	1	101-093
194	101-094	1	101-094
195	101-095	1	101-095
196	101-096	1	101-096
197	101-097	1	101-097
198	101-098	1	101-098
199	101-099	1	101-099
200	101-100	1	101-100



FIRST LEVEL LIGHTING PLAN - AREA E



NOTE: COORDINATE INSTALLATION OF 12 FIXTURES IN RM. 510 IN ACCORDANCE WITH LOCATIONS, DIMENSIONS, & FINISHES.

GENERAL NOTE: ALL LIGHT FIXTURES SHALL BE 12" x 12" x 1" (12" x 12" x 1" NOTED OTHERWISE)

LIGHTING AND POWER SHUTDOWN PANEL "R1E1"				
RELAY NO.	CIRCUIT NO.	CONTROL LOCATION	CIRCUIT NO.	RELAY NO.
1	LE-44	5177		33
2	LE-45			34
3	LE-46			35
4	LE-50			36
5	LE-54			37
6	LE-55			38
7	LE-54			39
8	LE-55			40
9	LE-58			41
10	LE-57			42
11	LE-52			43
12	LE-48			44
13	LE-46			45
14	LE-52			46
15	LE-51			47
16	LE-50			48
17	LE-5			49
18	LE-10			50
19	LE-9			51
20	LE-71			52
21	LE-69			53
22	LE-7			54
23	LE-15			55
24	LE-12			56
25	LE-27			57
26	SPRINK			58
27	SPRINK			59
28	SPRINK			60
29	SPRINK			61
30				62
31				63
32				64

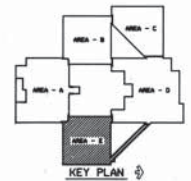
SERVING PANEL "LE"

LIGHTING AND POWER SHUTDOWN PANEL "R1E2"				
RELAY NO.	CIRCUIT NO.	CONTROL LOCATION	CIRCUIT NO.	RELAY NO.
1	LE-57	5172		33
2	LE-56			34
3	LE-49			35
4	LE-55			36
5	LE-54			37
6	LE-59			38
7	LE-41			39
8	LE-51			40
9	LE-51			41
10	LE-57			42
11	LE-55			43
12	LE-50			44
13	LE-40			45
14	LE-52			46
15	LE-58			47
16	LE-27			48
17	LE-25			49
18	LE-14			50
19	LE-8			51
20	LE-7			52
21	LE-65			53
22	LE-65			54
23	LE-2			55
24	LE-4			56
25	LE-52			57
26	LE-6			58
27	LE-66			59
28	LE-68			60
29	SPRINK			61
30	SPRINK			62
31	SPRINK			63
32	SPRINK			64

SERVING PANEL "LE"

ROOM FINISH SCHEDULE			
NO.	DESCRIPTION	FINISH	DATE
101	CEILING	AC	11/10
102	CEILING	AC	11/10
103	CEILING	AC	11/10
104	CEILING	AC	11/10
105	CEILING	AC	11/10
106	CEILING	AC	11/10
107	CEILING	AC	11/10
108	CEILING	AC	11/10
109	CEILING	AC	11/10
110	CEILING	AC	11/10
111	CEILING	AC	11/10
112	CEILING	AC	11/10
113	CEILING	AC	11/10
114	CEILING	AC	11/10
115	CEILING	AC	11/10
116	CEILING	AC	11/10
117	CEILING	AC	11/10
118	CEILING	AC	11/10
119	CEILING	AC	11/10
120	CEILING	AC	11/10
121	CEILING	AC	11/10
122	CEILING	AC	11/10
123	CEILING	AC	11/10
124	CEILING	AC	11/10
125	CEILING	AC	11/10
126	CEILING	AC	11/10
127	CEILING	AC	11/10
128	CEILING	AC	11/10
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140	CEILING	AC	11/10
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143	CEILING	AC	11/10
144	CEILING	AC	11/10
145	CEILING	AC	11/10
146	CEILING	AC	11/10
147	CEILING	AC	11/10
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149	CEILING	AC	11/10
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151	CEILING	AC	11/10
152	CEILING	AC	11/10
153	CEILING	AC	11/10
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155	CEILING	AC	11/10
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158	CEILING	AC	11/10
159	CEILING	AC	11/10
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161	CEILING	AC	11/10
162	CEILING	AC	11/10
163	CEILING	AC	11/10
164	CEILING	AC	11/10
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194	CEILING	AC	11/10
195	CEILING	AC	11/10
196	CEILING	AC	11/10
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198	CEILING	AC	11/10
199	CEILING	AC	11/10
200	CEILING	AC	11/10

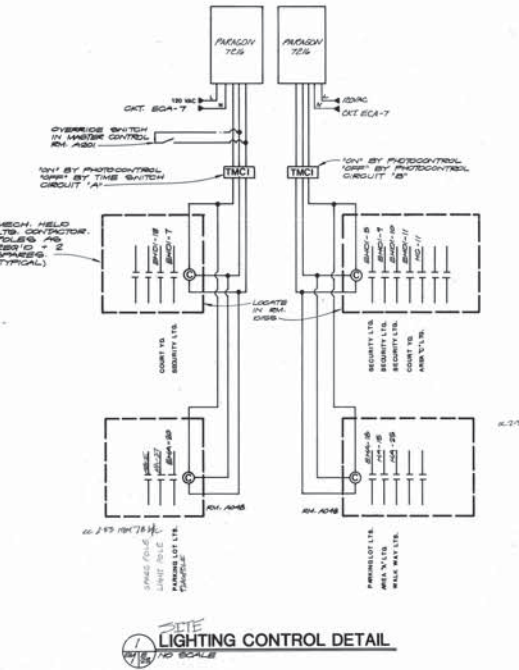
LIGHTING PLAN - MEZZANINE AREA E
SCALE: 1/8"=1'-0"
NORTH



PANEL SCHEDULE						
MARK	VOLTS	MMS	BRANCH CIRCUIT BREAKERS	MOUNTING	REMARKS	
MARK	VOLTS	MMS	BRANCH CIRCUIT BREAKERS	MOUNTING	REMARKS	
KE	120/208V 3ø, 4w	400/3	45-207/1, 1-207/1 (OP) 3-107/2, 1-100/2, 1-207/2, 8-207/3, 1-400/3, 1-150/3	SURFACE	2-SECTION PANEL SUB-FEED LUGS	
HK	277/480V 3ø, 4w	200/3	7-157/3, 5-207/3, 1-107/3, 1-407/3, 1-207/3	SURFACE		
ELA	120/208V 3ø, 4w	100/3	85-207/1, 4-11P, SPACES 1-2-207/1, 1-207/2, 1-207/3, 1-1P, SPACES	SURFACE		
EOA	120/208V 3ø, 4w	100/3	85-207/1, 4-11P, SPACES 1-2-207/1, 1-207/2, 1-207/3, 1-1P, SPACES	SURFACE		
EAR	120/208V 3ø, 4w	60/3	85-207/1, 6-11P, SPACES, 1-107/3	SURFACE		
ELC	120/208V 3ø, 4w	60/3	14-207/1, 10-11P, SPACES	SURFACE		
ELD	120/208V 3ø, 4w	60/3	85-207/1, 6-11P, SPACES	SURFACE		
ELE	120/208V 3ø, 4w	60/3	85-207/1, 6-11P, SPACES 1-2-207/1, 1-207/2, 1-207/3, 1-1P, SPACES	SURFACE		
EMA	277/480V 3ø, 4w	100/3	85-207/1, 6-207/3, 1-207/3, 1-207/3, 1-207/3	SURFACE		
EMB	277/480V 3ø, 4w	100/3	14-207/1, 1-207/3, 1-207/3, 1-207/3	SURFACE		
EMC	277/480V 3ø, 4w	100/3	9-207/1, 1-207/3, 8-1P, SPACES, 1-207/3	SURFACE		
EMD	277/480V 3ø, 4w	100/3	85-207/1, 6-207/3, 1-207/3, 1-207/3, 1-207/3	SURFACE		
EME	277/480V 3ø, 4w	100/3	9-207/1, 1-207/3, 1-207/3, 8-1P, SPACES	SURFACE		
EMB	120/208V 3ø, 4w	60/3	10-207/1, 1-207/3, 8-1P, SPACES	SURFACE		
LAD	120/208V 3ø, 4w	60/3	75-207/1, 4-207/1 (OP), 5-207/1, 1-207/2, 1-207/3	SURFACE	2-SECTION PANEL SUB-FEED LUGS	
LAI	120/208V 3ø, 4w	100/3	12-207/1, 1-207/3, 12-1P, SPACES	SURFACE		
LBI	120/208V 3ø, 4w	60/3	13-207/1, 1-207/3, 1-207/3, 1-207/3	SURFACE	3-SECTION PANEL SUB-FEED LUGS	
LC	120/208V 3ø, 4w	60/3	42-207/1, 4-207/1 (OP), 3-107/2, 1-207/2, 28-1P, SPACES	SURFACE	2-SECTION PANEL SUB-FEED LUGS	
LD	120/208V 3ø, 4w	100/3	30-207/1, 12-1P, SPACES	SURFACE		
LDI	120/208V 3ø, 4w	100/3	11-207/1, 4-207/1 (OP), 1-107/2, 1-100/3, 1-207/3, 1-207/3, 1-207/3	SURFACE		
LDO	120/208V 3ø, 4w	100/3	41-207/1, 1-207/1 (OP)	SURFACE		
LE	120/208V 3ø, 4w	60/3	34-207/1, 4-207/1 (OP), 3-107/2, 1-207/2, 28-1P, SPACES	SURFACE	2-SECTION PANEL SUB-FEED LUGS	
LGL	120/208V 3ø, 4w	150/3	12-207/1, 2-207/3, 2-307/3, 12-1P, SPACES	FLUSH		
HA	277/480V 3ø, 4w	200/3	36-207/1, 6-1P, SPACES	SURFACE		
HB	277/480V 3ø, 4w	200/3	1-207/1, 1-100/3, 14-1P, SPACES	SURFACE		
HC	277/480V 3ø, 4w	200/3	18-207/1, 1-100/3, 21-1P, SPACES	SURFACE		
HD	277/480V 3ø, 4w	60/3	6-207/1, 6-1P, SPACES	SURFACE		
HDI	277/480V 3ø, 4w	100/3	12-207/1, 1-100/3, 24-1P, SPACES	SURFACE		
HDO	277/480V 3ø, 4w	200/3	14-207/1, 1-207/3, 1-207/3, 1-207/3	SURFACE		
HE	277/480V 3ø, 4w	100/3	8-207/1, 1-100/3, 13-1P, SPACES	SURFACE		
HMA	120/208V 3ø, 4w	60/3	18-207/1, 4-207/1 (OP), 8-1P, SPACES	SURFACE		
LKC	120/208V 3ø, 4w	60/3	12-207/1, 12-1P, SPACES	SURFACE		
LKD	120/208V 3ø, 4w	60/3	1-207/1, 12-1P, SPACES	SURFACE		
LKE	120/208V 3ø, 4w	60/3	14-207/1, 12-1P, SPACES	SURFACE		

FIXTURE SCHEDULE							
MARK	MANUFACTURER	CATALOG NUMBER	NO	LAMP TYPE	VOLTS	MOUNTING	NOTES
DA	KIRLIN	9007-1	2	PL-11	120		
DB	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107
DC	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107
DD	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107
DE	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107
DF	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107
DG	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107
DH	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107
DI	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107
DJ	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107
DK	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107
DL	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107
DM	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107
DN	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD. IN	277-207/107

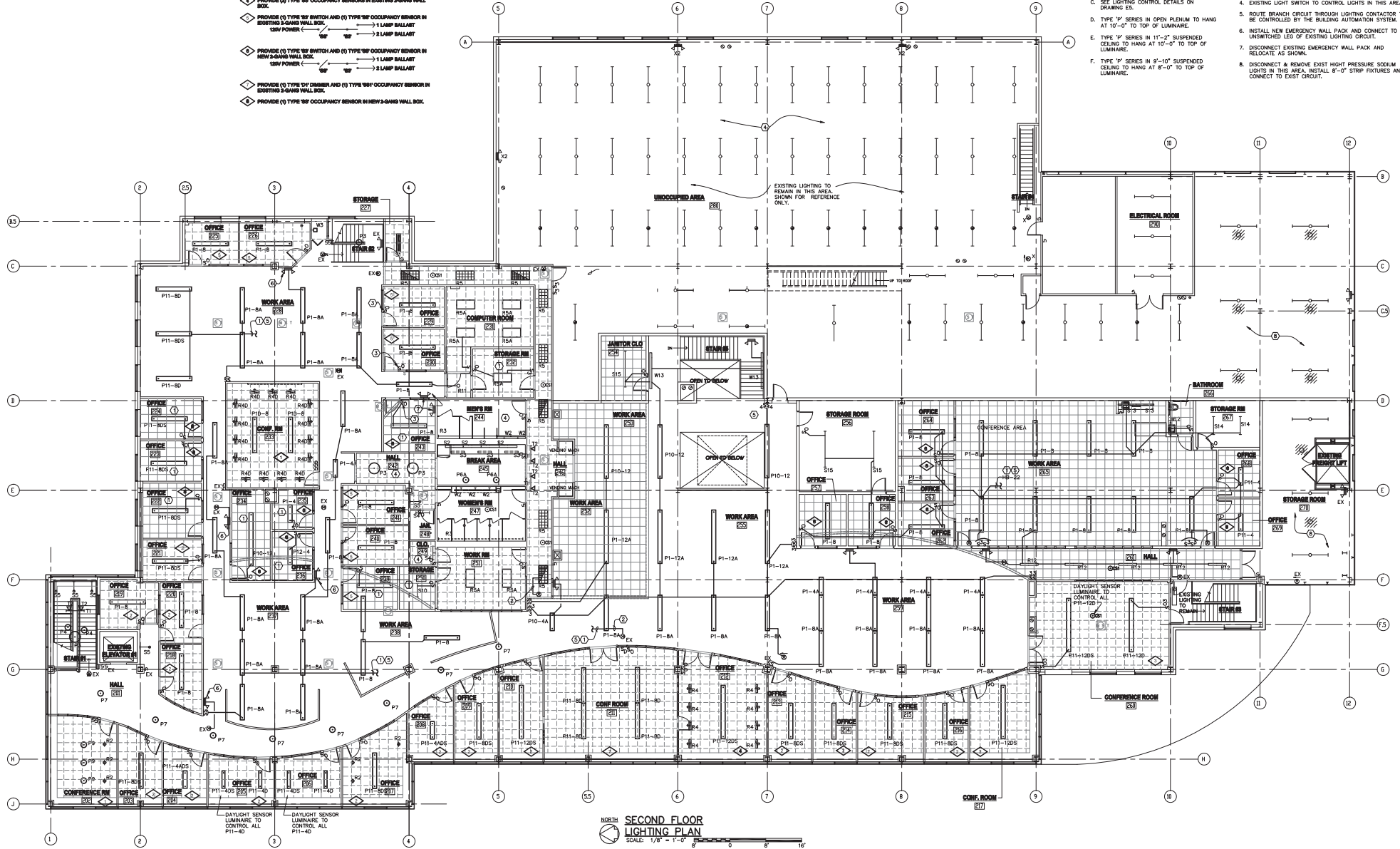
FIXTURE SCHEDULE NOTES:
 1. LAMP CORDS SECTION LENGTH AS SHOWN IN DRAWINGS.
 2. FINISH SHALL BE #80 POLISHED BRASS PLATE.



FIXTURE SCHEDULE							
MARK	MANUFACTURER	CATALOG NUMBER	NO	LAMP TYPE	VOLTS	MOUNTING	NOTES
A	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
B	KIRLIN	9007-1	1	PL-11	277	RECESS GRD.	
C	PERLESS	36-16-6023-MS-ES-101	4	F-80/CK	277	RECESS GRD.	RECESS GRD. IN
D	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD.	
E	PERLESS	36-16-6023-MS-ES-101	4	F-80/CK	277	RECESS GRD.	RECESS GRD. IN
F	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD.	
G	PERLESS	36-16-6023-MS-ES-101	4	F-80/CK	277	RECESS GRD.	RECESS GRD. IN
H	KIRLIN	9007-1	1	F-80/CK	277	RECESS GRD.	
I	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
J	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
K	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
L	PERLESS	36-16-6023-MS-ES-101	4	F-80/CK	277	RECESS GRD.	RECESS GRD. IN
M	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
N	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
O	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
P	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
Q	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
R	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
S	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
T	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
U	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
V	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
W	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
X	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
Y	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
Z	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AA	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AB	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AC	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AD	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AE	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AF	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AG	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AH	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AI	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AJ	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AK	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AL	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AM	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AN	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AO	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AP	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AQ	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AR	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AS	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AT	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AU	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AV	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AW	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AX	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AY	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
AZ	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BA	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BB	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BC	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BD	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BE	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BF	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BG	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BH	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BI	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BJ	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BK	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BL	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BM	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BN	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BO	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BP	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BQ	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BR	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BS	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BT	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BU	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BV	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BW	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BX	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BY	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
BZ	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS GRD.	
CA	LITHONIA	277-480V-15-15-277	2	F-80/CK	277	RECESS	

- LIGHTING CONTROL NOTES:**
- ◇ EXISTING CONTROLS TO REMAIN.
 - ◇ PROVIDE (1) TYPE 'W' OCCUPANCY SENSOR IN EXISTING 3-GANG WALL BOX.
 - ◇ PROVIDE (1) TYPE 'W' OCCUPANCY SENSOR IN NEW OR EXISTING 3-GANG WALL BOX AT (B) LOCATION.
 - ◇ PROVIDE (2) TYPE 'W' OCCUPANCY SENSORS IN EXISTING 3-GANG WALL BOX.
 - ◇ PROVIDE (1) TYPE 'W' SWITCH AND (1) TYPE 'W' OCCUPANCY SENSOR IN EXISTING 3-GANG WALL BOX.
 - 1 LAMP BALLAST
 - 2 LAMP BALLAST
 - ◇ PROVIDE (1) TYPE 'W' SWITCH AND (1) TYPE 'W' OCCUPANCY SENSOR IN NEW 3-GANG WALL BOX.
 - 1 LAMP BALLAST
 - 2 LAMP BALLAST
 - ◇ PROVIDE (1) TYPE 'D' DIMMER AND (1) TYPE 'W' OCCUPANCY SENSOR IN EXISTING 3-GANG WALL BOX.
 - ◇ PROVIDE (1) TYPE 'W' OCCUPANCY SENSOR IN NEW 3-GANG WALL BOX.

- GENERAL NOTES:**
- A. CONNECT EMERGENCY WALL PACKS AND EXIT SIGN TO UNSWITCH LEG OF LIGHTING CIRCUIT.
 - B. INSTALL OVERCURE SWITCH FOR ALL CEILING MOUNTED OCCUPANCY SENSOR.
 - C. SEE LIGHTING CONTROL DETAILS ON DRAWING CD.
 - D. TYPE 'P' SERIES IN OPEN PLENUM TO HANG AT 10'-0" TO TOP OF LUMINAIRE.
 - E. TYPE 'P' SERIES IN 9'-2" SUSPENDED CEILING TO HANG AT 10'-0" TO TOP OF LUMINAIRE.
 - F. TYPE 'P' SERIES IN 9'-10" SUSPENDED CEILING TO HANG AT 8'-0" TO TOP OF LUMINAIRE.
- FLAG NOTES THIS SHEET:**
1. CONNECT TO EXISTING LIGHTING BRANCH CIRCUIT.
 2. INSTALL EXISTING LUMINAIRES SAVED DURING DEMOLITION AND CONNECT TO EXISTING LIGHTING IN AREA.
 3. INSTALL NEW SWITCH IN EXISTING J-BOX.
 4. EXISTING LIGHT SWITCH TO CONTROL LIGHTS IN THIS AREA.
 5. ROUTE BRANCH CIRCUIT THROUGH LIGHTING CONTACTOR TO BE CONTROLLED BY THE BUILDING AUTOMATION SYSTEM.
 6. INSTALL NEW EMERGENCY WALL PACK AND CONNECT TO UNSWITCHED LEG OF EXISTING LIGHTING CIRCUIT.
 7. DISCONNECT EXISTING EMERGENCY WALL PACK AND RELOCATE AS SHOWN.
 8. DISCONNECT & REMOVE EXIST HIGH PRESSURE SODIUM LIGHTS IN THIS AREA. INSTALL 8'-0" STRIP FIXTURES AND CONNECT TO EXIST CIRCUIT.



NORTH
SECOND FLOOR LIGHTING PLAN
 SCALE: 1/8" = 1'-0"

BOULDER COUNTY
SHERIFF'S HEADQUARTERS REMODEL
 5600 FLATIRON PARKWAY, BOULDER, CO 80301



ADMINISTRATIVE SERVICES DEPARTMENT
 COUNTY ARCHITECT DIVISION
 5600 15TH STREET
 BOULDER, CO 80506
 P.O. BOX 471
 BOULDER, CO 80506
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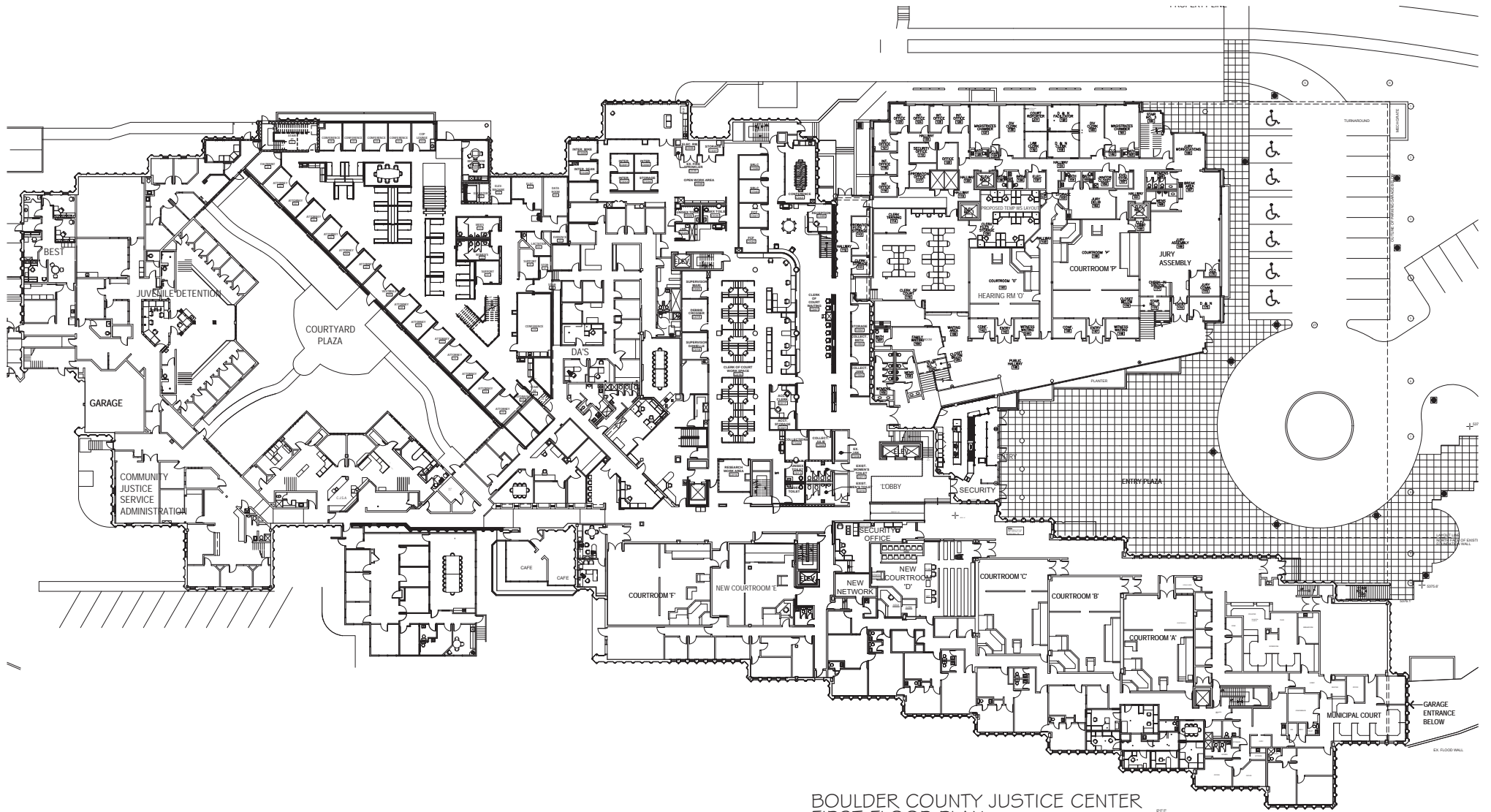


REVISION	DATE	BY	CHK
1	07/19	MMB	STW
2	07/19	MMB	STW
3	07/19	MMB	STW

PROJECT	FILE NAME
SHERIFF'S HEADQUARTERS REMODEL	071901
LOCATION	5600 FLATIRON PARKWAY BOULDER, CO 80506
SHEET NAME	SECOND FLOOR LIGHTING PLAN

SHEET
E2.2

1/16/2019 10:28:38 AM, R. Sheriff, Bldg/Util, Bldg/Util/NOCD/2019/01/02 E2.2-2.dwg, Revised Thursday, June 11, 2020, 8:07:46pm, By: cadwin

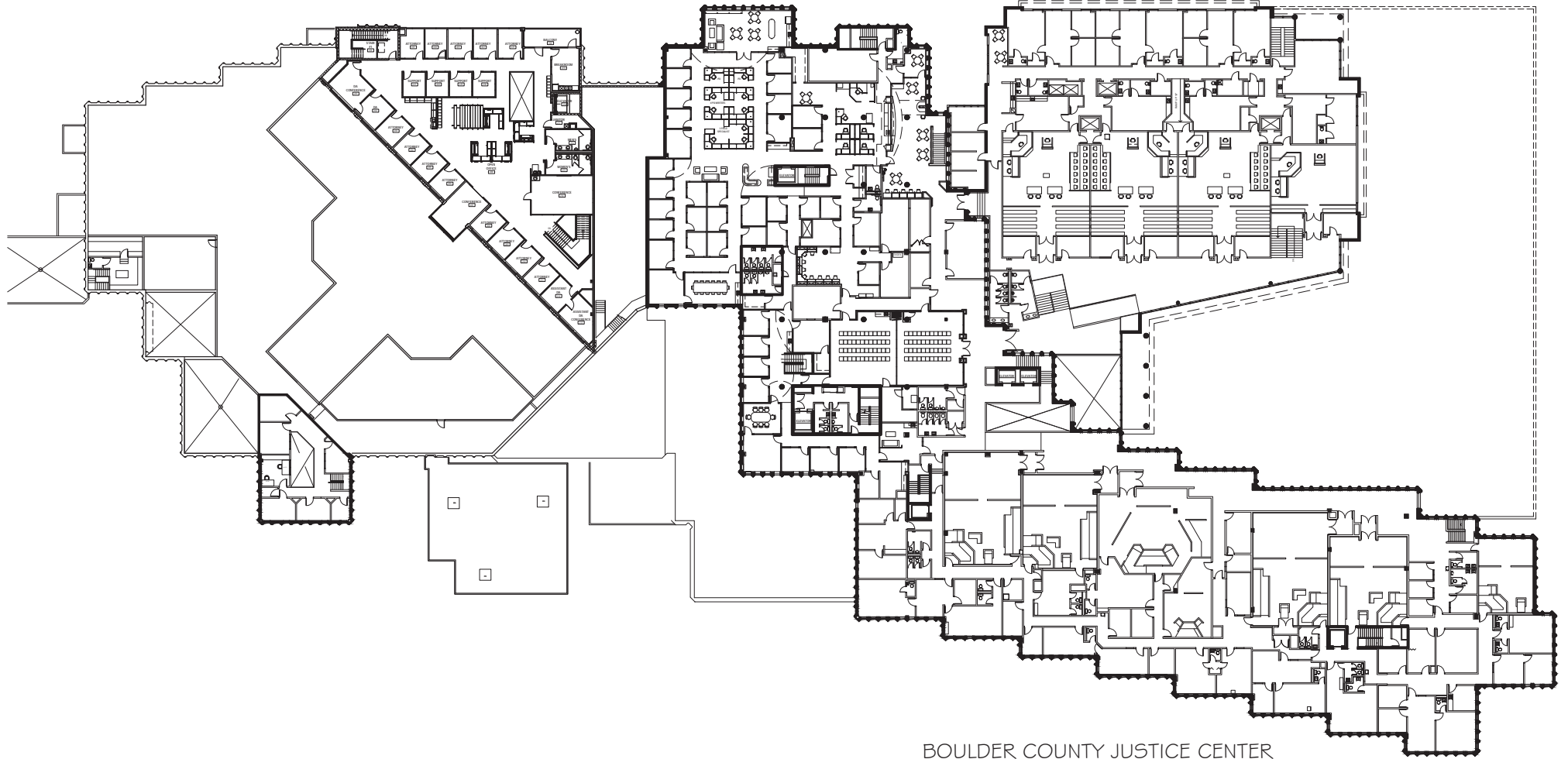


BOULDER COUNTY JUSTICE CENTER
FIRST FLOOR PLAN

SCALE: 1" = 40'-0"

7/25/18



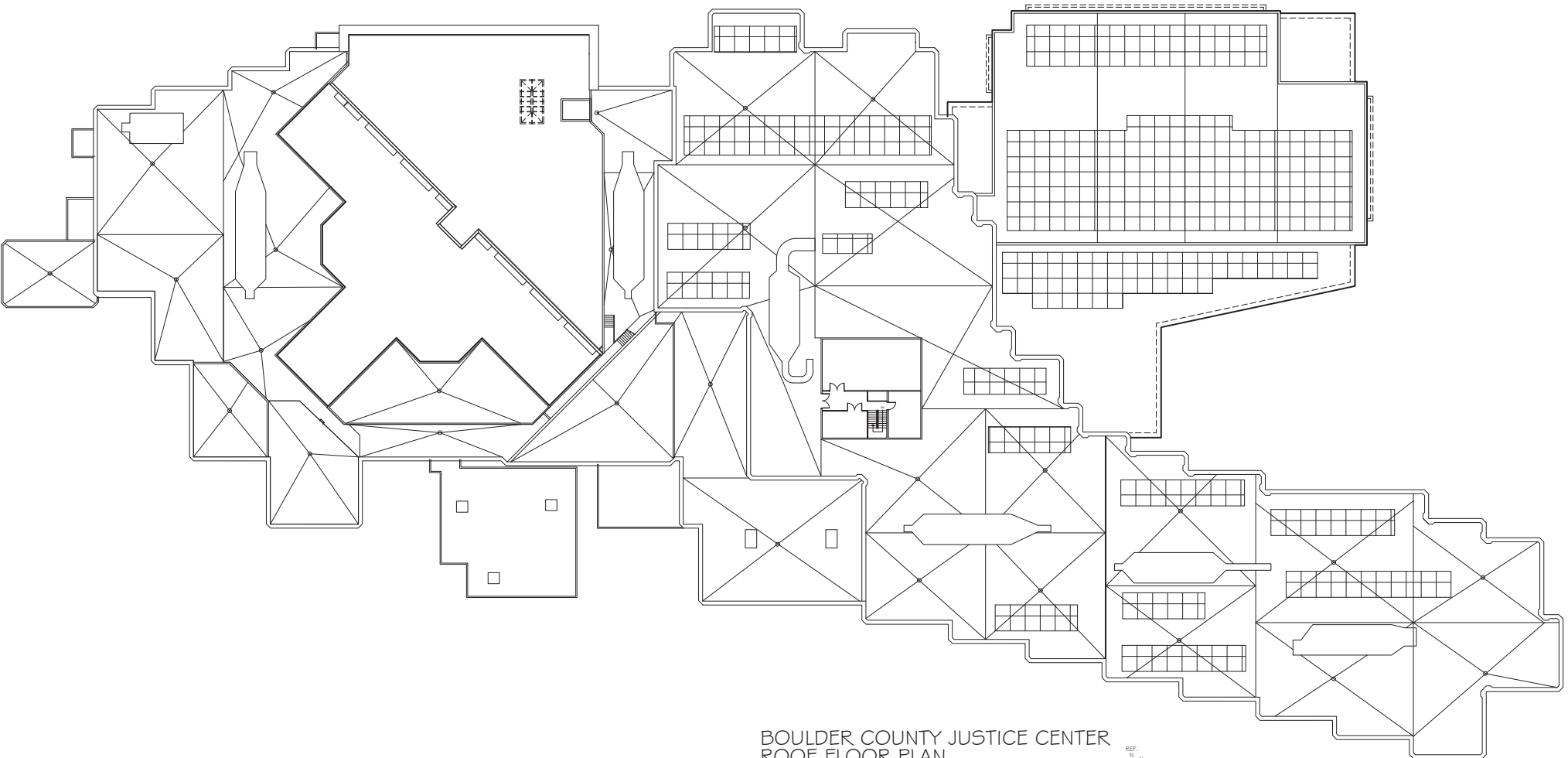


BOULDER COUNTY JUSTICE CENTER
SECOND FLOOR PLAN

SCALE: 1" = 40'-0"

7/25/18



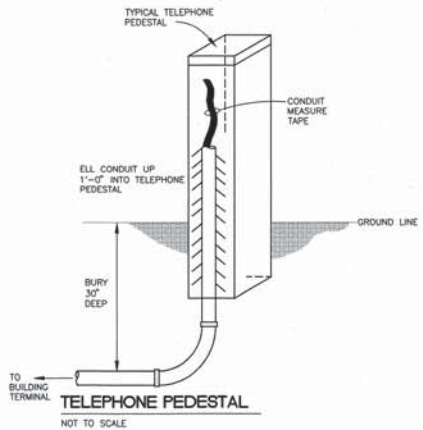
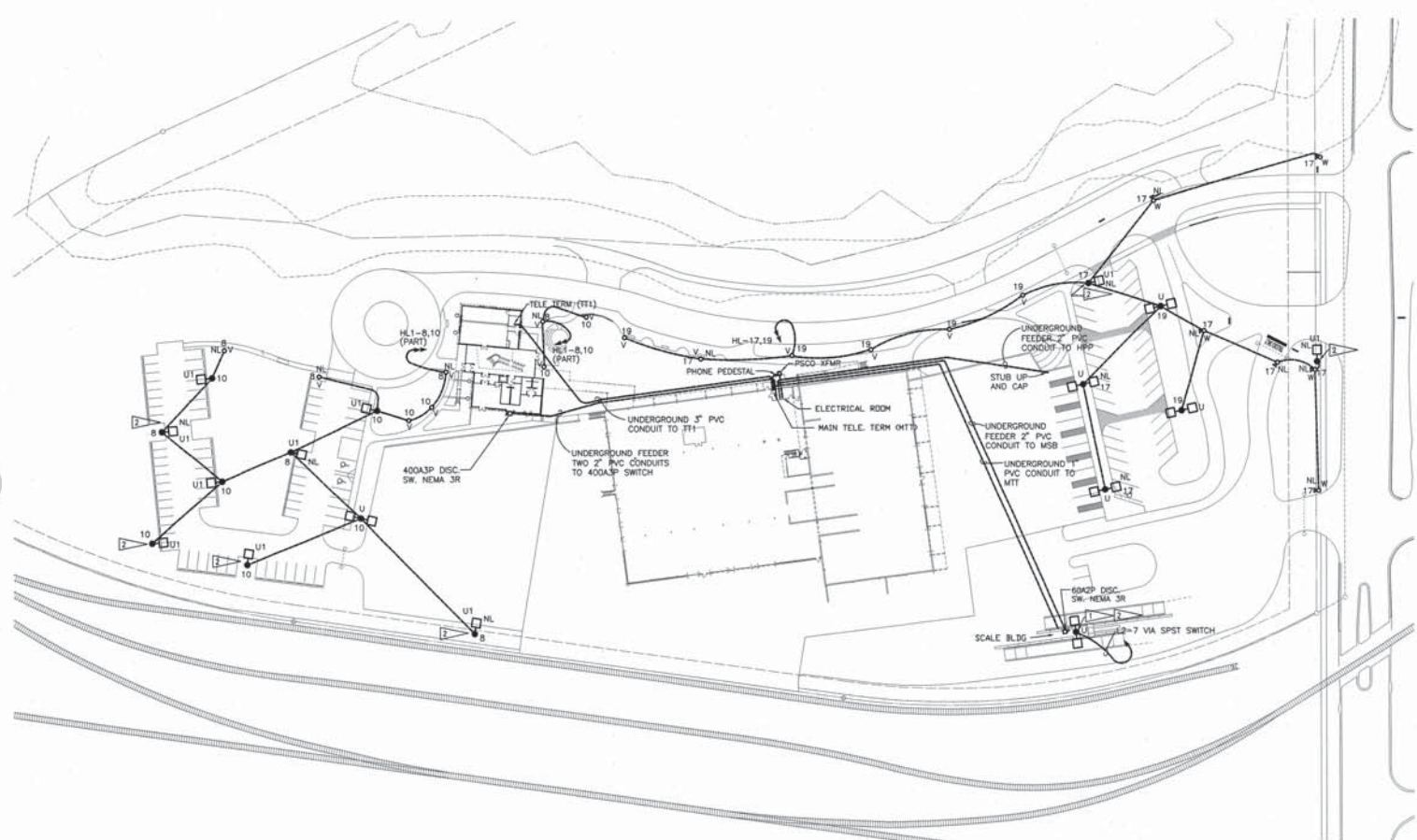
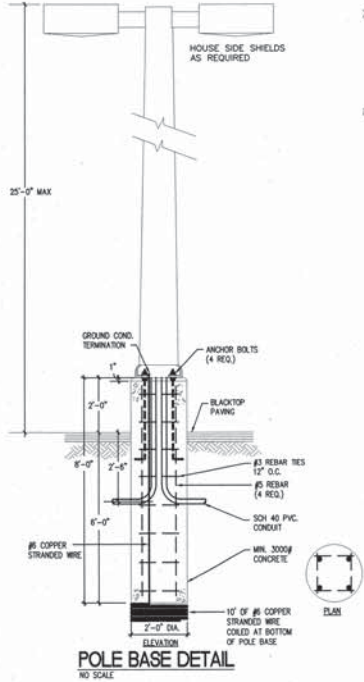
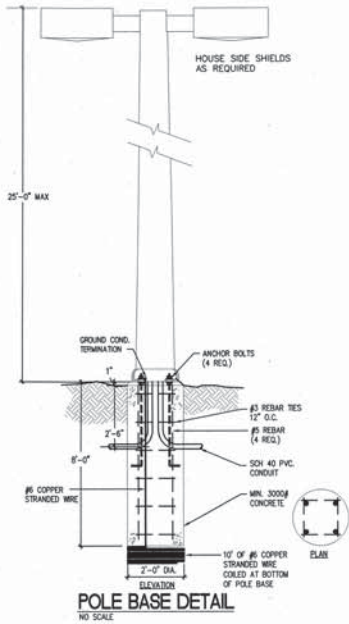


BOULDER COUNTY JUSTICE CENTER
ROOF FLOOR PLAN

SCALE: 1" = 40'-0"

7/25/18





- DETAIL NOTES:**
- 1 PROVIDE 120V BALLAST FOR TYPE "U" FIXTURE AT SCALE HOUSE.
 - 2 PROVIDE HOUSE SIDE SHIELDS FOR TYPE U AND U1 PARKING AREA LIGHT FIXTURES.

EDGE
ARCHITECTURE

228 Peaf Street
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Boulder, Colorado 80502
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REGISTERED
CONSULTANTS
RM
congroup

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BOULDER COUNTY RECYCLING AND COMPOSTING AUTHORITY
RECYCLABLES PROCESSING CENTER
Boulder, Colorado
63rd. Street

Revisions
PERMIT SET 11/22/99
PERMIT SET 01/18/00

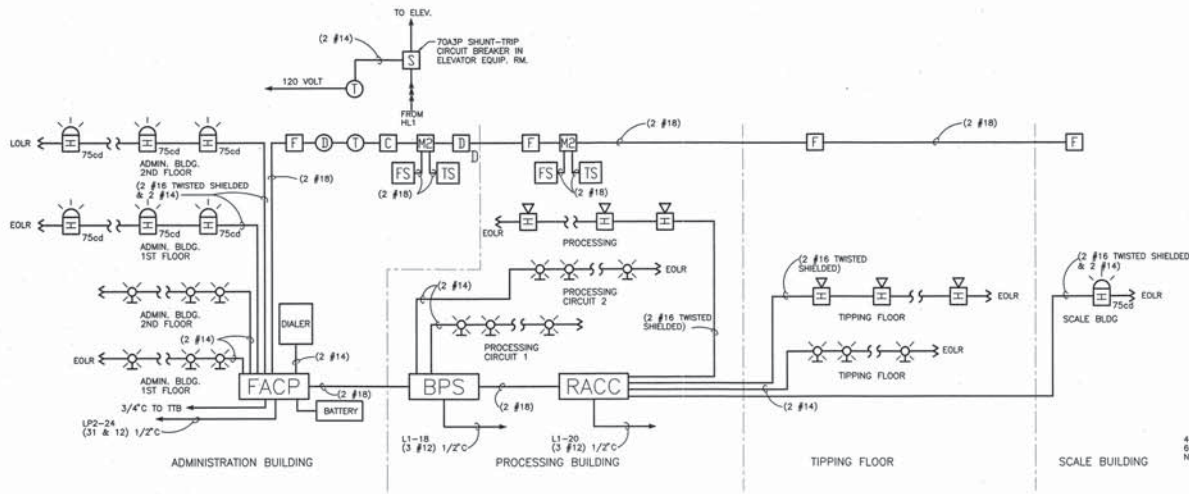
22 November 99
Project #: 15299
Drawn by: ATJ
Checked by: PLW
Filename: 102965.dwg

ELECTRICAL
SITE PLAN

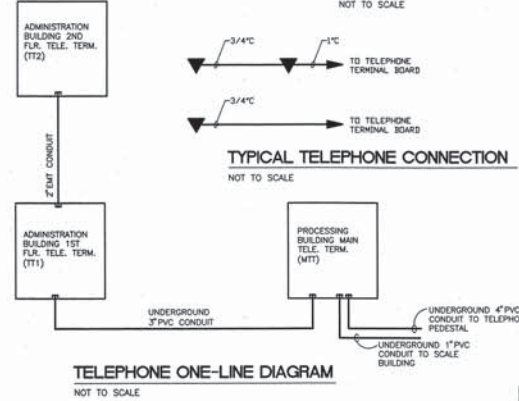
Sheet Number

ES

ELECTRICAL LEGEND			ONE-LINE CONTROLS LEGEND		
ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
		EXIT LIGHT (WITH DIRECTION ARROWS INDICATED)	FB		FULL BOX
		PORCELAIN KEYLESS LAMP HOLDER	RECEPT		SINGLE GROUNDED RECEPTACLE
		WALL MOUNTED INCANDESCENT OR H.I.D. LIGHT FIXTURE		DUPLEX GROUNDED RECEPTACLE	DUPLEX GROUNDED RECEPTACLE
		RECESSED INCANDESCENT OR H.I.D. LIGHT FIXTURE		DEDICATED DUPLEX GROUNDED RECEPTACLE	DEDICATED DUPLEX GROUNDED RECEPTACLE
		SURFACE INCANDESCENT OR H.I.D. LIGHT FIXTURE		DUPLEX RECEPTACLE W/GROUND FAULT INTERRUPTER	DUPLEX RECEPTACLE W/GROUND FAULT INTERRUPTER
		RECESSED WALL WASHER INCANDESCENT OR H.I.D. LIGHT FIXTURE		DUPLEX GROUNDED RECEPTACLE, TOP HALF SWITCHED	DUPLEX GROUNDED RECEPTACLE, TOP HALF SWITCHED
		SURFACE WALL WASHER INCANDESCENT OR H.I.D. LIGHT FIXTURE		FOURPLEX GROUNDED RECEPTACLE	FOURPLEX GROUNDED RECEPTACLE
		RECESSED 2' x 4' FLUORESCENT LIGHT FIXTURE (CAPITAL LETTERS INDICATE FIXTURE TYPE, SMALL LETTERS INDICATE SWITCHING)	RO		RANGE OUTLET
		SURFACE 2' x 4' FLUORESCENT LIGHT FIXTURE (CAPITAL LETTERS INDICATE FIXTURE TYPE, SMALL LETTERS INDICATE SWITCHING)			SPECIAL-PURPOSE OUTLET, NUMBER INDICATES AMPERAGE, PROVIDE NEAR CONVEYOR OUTLET, RECEPTACLE TO MATCH PLUS ON EQUIPMENT.
		RECESSED 2' x 2' FLUORESCENT LIGHT FIXTURE (CAPITAL LETTERS INDICATE FIXTURE TYPE, SMALL LETTERS INDICATE SWITCHING)			WIRE HOLD
		SURFACE 2' x 2' FLUORESCENT LIGHT FIXTURE (CAPITAL LETTERS INDICATE FIXTURE TYPE, SMALL LETTERS INDICATE SWITCHING)			FIRE RATED POLE-THRU FOR CONNECTION TO PORTABLE PARTITION POWER AND TELEPHONE/DATA WIRING INDICATED
		RECESSED 1' x 4' FLUORESCENT LIGHT FIXTURE (CAPITAL LETTERS INDICATE FIXTURE TYPE, SMALL LETTERS INDICATE SWITCHING)			FLOOR MOUNTED DUPLEX RECEPTACLE
		SURFACE 1' x 4' FLUORESCENT LIGHT FIXTURE (CAPITAL LETTERS INDICATE FIXTURE TYPE, SMALL LETTERS INDICATE SWITCHING)			FIRE-RATED POLE-THRU WITH SERVICES INDICATED
		BARE-LAMP FLUORESCENT STRIP LIGHT	DISC SW		FLOOR MOUNTED FOURPLEX RECEPTACLE
		TRACK LIGHT			TELE/POWER POLE WITH SERVICES INDICATED
		SHADING INDICATES TWO LAMPS ON EMERGENCY CIRCUIT			DISCONNECT SWITCH
		SHADING INDICATES FIXTURE ON EMERGENCY CIRCUIT			FUSED DISCONNECT SWITCH
		BATTERY PACK LIGHT FIXTURE			MAGNETIC CONTROLLER
		POLE MOUNTED LIGHT FIXTURE			COMBINATION MOTOR STARTER
		PHOTO-CELL			VARIABLE FREQUENCY DRIVE
		SINGLE-POLE SWITCH			JUNCTION BOX, WALL MOUNTED
		SMALL LETTER INDICATES FIXTURES CONTROLLED			JUNCTION BOX, FLUSH FLOOR MOUNTED
		GANGED SWITCHES			MOTOR
		DOUBLE-POLE SWITCH			ELECTRICAL PANELBOARD
		THREE-WAY SWITCH			TRANSFORMER
		FOUR-WAY SWITCH			SWITCHBOARD, POWER CONTROL CENTER
		KEY-OPERATED SWITCH			METER
		SWITCH WITH PILOT LIGHT			PUSH BUTTON
		LOW VOLTAGE SWITCH			EMERGENCY POWER OFF
		DIMMER SWITCH			ABORT BUTTON
		VARIABLE SPEED SWITCH			COMBINATION FIRE ALARM HORN/STROBE LIGHT
		EXPLOSION PROOF SWITCH			DELUGE VALVE
		SWITCH WITH THERMAL OVERLOAD			BELL
		COMBINATION SWITCH AND RECEPTACLE			CHIME
		MAGNETIC DOOR HOLDER CONNECTION			MANHOLE
		CARDREADER			LINE VOLTAGE THERMOSTAT
		SECURITY CAMERA			MANUAL PULL STATION, 4'-6" A.F.F.
		CONDUIT, CONCEALED IN WALLS OR CEILING			FIRE ALARM HORN, 7'-8" A.F.F., UNLESS OTHERWISE NOTED
		CONDUIT, CONCEALED IN FLOOR (OR UNDERGROUND)			FIRE ALARM STROBE LIGHT
		CONDUIT, EXPOSED			SMOKE DETECTOR
		BRANCH CIRCUIT HOMERUN TO PANELBOARD, NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS, DESIGNATION INDICATES PANEL & CIRCUIT NUMBERS			REMOTE INDICATING LIGHT
		CONDUIT STUB-UP			IONIZATION TYPE SMOKE DETECTOR
		CONDUIT STUB-DOWN			DUCT DETECTOR, SMOKE
		CONDUIT SEAL OFF			THERMAL DETECTOR
		STRANDED AND CAPPED CONDUIT			SPRINKLER ALARM FLOW SWITCH
		CONDUIT OR CABLE Routed UNDERGROUND			TAMPER SWITCH
		OVERHEAD LINE			FIRE ALARM ANNUNCIATOR PANEL
		TELEPHONE TERMINAL			FIRE ALARM CONTROL PANEL
		WALL MOUNTED TELEPHONE OUTLET			SPEAKER
		OIT, WALL MOUNTED			FIRE FIGHTERS TELEPHONE JACK
		COMBINATION TELEPHONE/DATA			COMBINATION MANUAL PULL STATION/FIRE FIGHTERS
		FLUSH FLOOR MOUNTED TELEPHONE OUTLET			UNDERFLOOR MOUNTED IONIZATION TYPE SMOKE DETECTOR
		FLUSH FLOOR MOUNTED TELEPHONE OUTLET			CEILING MOUNTED IONIZATION TYPE SMOKE DETECTOR
		FLUSH FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET			TIME CLOCK
		FLUSH CEILING MOUNTED TELEPHONE OUTLET			TELEVISION OUTLET
		FLUSH CEILING MOUNTED TELEPHONE OUTLET			DASHED INDICATES EXISTING TO BE REMOVED
		FLUSH CEILING MOUNTED COMBINATION TELEPHONE/DATA OUTLET			CLOCK RECEPTACLE OUTLET, 120V, WALL MOUNTED
		EQUIPMENT REFERENCE			ABOVE COUNTER
		MECHANICAL EQUIPMENT REFERENCE			ELECTRIC WATER COOLER
		DENOTES ALL FIXTURES IN THIS AREA ARE TYPE INDICATED BY LETTER UNLESS OTHERWISE NOTED.			DETAIL NUMBER
		REVISION REFERENCE			SHEET NUMBER - WHERE DETAIL IS CALLED OUT
		FLAG NOTE REFERENCE			SHEET NUMBER - WHERE DETAIL IS SHOWN
		ROOM NUMBER			INDICATES NEW CIRCUIT BREAKER
					RESISTOR
					POTENTIOMETER
					END RESISTOR
					CAPACITOR
					THERMOCOUPLE
					EQUIPMENT GROUND
					SIGNAL GROUND
					EARTH GROUND
					NORMALLY OPEN CONTACT
					NORMALLY CLOSED CONTACT
					COOL, SOLENOID
					THERMAL ELEMENT, OVERLOAD RELAY
					SWITCH
					PUSHBUTTON, MOMENTARY CONTACT (NORMALLY OPEN)
					PUSHBUTTON, MOMENTARY CONTACT (NORMALLY CLOSED)
					TWO CIRCUIT PUSHBUTTON, MOMENTARY CONTACT
					MULTI-POLE PUSHBUTTON, MOMENTARY CONTACT
					TRANSFER SWITCH, 2 POSITION
					TRANSFER SWITCH, 3 POSITION
					LIMIT SWITCH, NORMALLY OPEN
					LIMIT SWITCH, NORMALLY OPEN - HELD CLOSED
					LIMIT SWITCH, NORMALLY CLOSED
					LIMIT SWITCH, NORMALLY CLOSED - HELD OPEN
					FLOW ACTUATED SWITCH, CLOSING ON INCREASE IN FLOW
					FLOW ACTUATED SWITCH, OPENING ON INCREASE IN FLOW
					LIQUID LEVEL ACTUATED SWITCH, CLOSING ON RISING LEVEL
					LIQUID LEVEL ACTUATED SWITCH, OPENING ON RISING LEVEL
					PRESSURE OR VACUUM ACTUATED SWITCH, CLOSING ON RISING PRESSURE
					PRESSURE OR VACUUM ACTUATED SWITCH, OPENING ON RISING PRESSURE
					DIFFERENTIAL PRESSURE ACTUATED SWITCH
					TEMPERATURE ACTUATED SWITCH, CLOSING ON RISING TEMPERATURE
					TEMPERATURE ACTUATED SWITCH, OPENING ON RISING TEMPERATURE
					OPEN SWITCH WITH TIME DELAY CLOSING FEATURE
					CLOSED SWITCH WITH TIME DELAY OPENING FEATURE
					OPEN SWITCH WITH TIME DELAY OPENING FEATURE
					CLOSED SWITCH WITH TIME DELAY CLOSING FEATURE
					FOOT ACTUATED SWITCH CLOSING BY FOOT PRESSURE
					FOOT ACTUATED SWITCH OPENING BY FOOT PRESSURE
					MUSHROOM HEAD 2 CIRCUIT PUSHBUTTON SWITCH
					TERMINAL POINT NUMBER
					TERMINAL BOARD
					CONNECTION POINT
					TERMINAL POINT NUMBER
					SHIELD
					PANEL TERMINATION POINT
					PILOT LIGHT, LIGHT ANNUNCIATOR (L LETTER DENOTES COLOR)
					CURRENT TO PNEUMATIC CONVERTER
					PNEUMATIC TO CURRENT CONVERTER
					CURRENT TO VOLTAGE CONVERTER
					SINGLE LINE INDICATES PRIMARY LOCATION, PANEL MOUNTED
					NO LINE INDICATES FIELD MOUNTED
					DOUBLE LINE INDICATES AUXILIARY LOCATION, PANEL TYPE-FIELD MOUNTED
					DASHED LINE INDICATES ACCESSIBLE OR BEHIND-THE-PANEL
					DISCRETE INSTRUMENTS
					SHARED DISPLAY, SHARED CONTROL
					SHARED CONTROLLER (INTERFACE) & HARDWARE INTERLOCK
					COMPUTER FUNCTION
					PROGRAMMABLE LOGIC CONTROL
					FUNCTIONAL OPERATION
					INSTRUMENTS SHARING COMMON HOUSING
					INSTRUMENT SUPPLY OR CONNECTION TO PROCESS
					UNDEFINED SIGNAL
					PNEUMATIC SIGNAL
					INTERNAL SYSTEM LINK (SOFTWARE OR DATA LINK)
					ELECTRIC SIGNAL
					ELECTRIC BINARY SIGNAL
					FIBER OPTIC SIGNAL



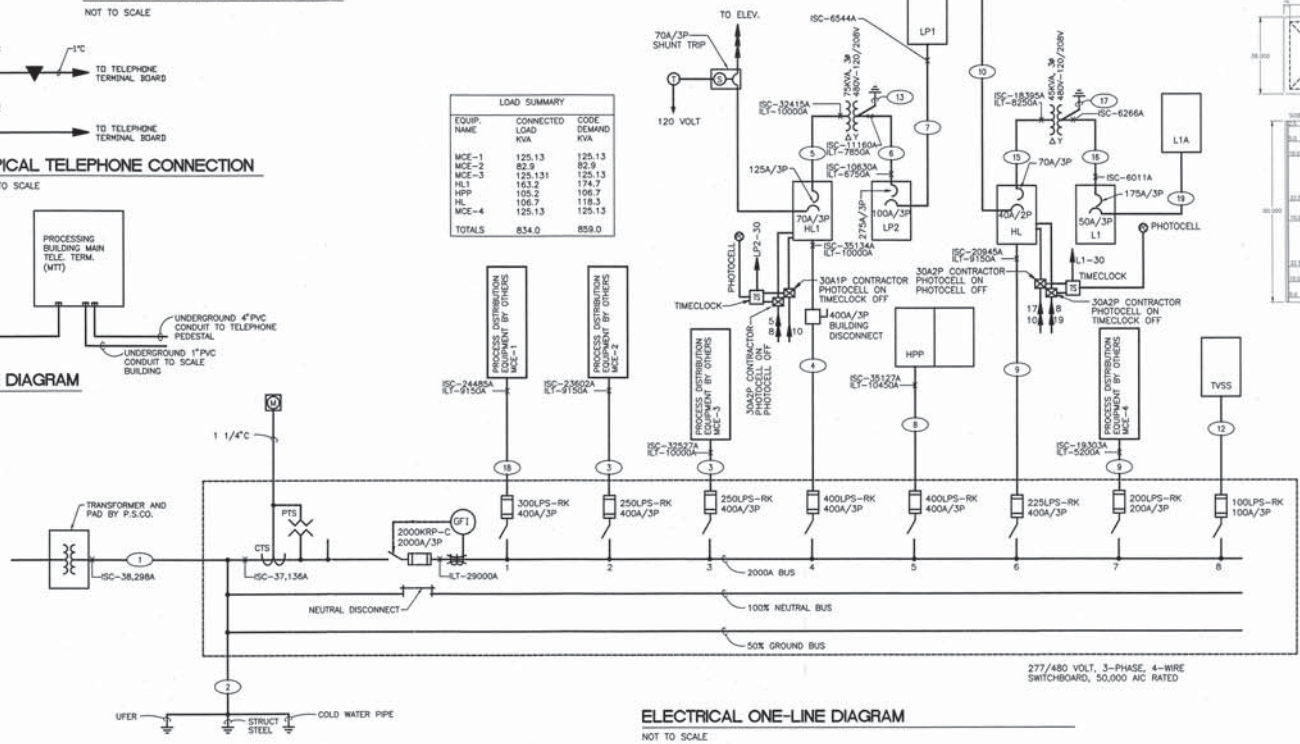
FIRE ALARM ONE-LINE DIAGRAM
NOT TO SCALE



TYPICAL TELEPHONE CONNECTION
NOT TO SCALE

TELEPHONE ONE-LINE DIAGRAM
NOT TO SCALE

EQUIP. NAME	LOAD	CONNECTED KVA	DEMAND KVA
MCE-1		125.13	125.13
MCE-2		82.9	82.9
MCE-3		125.131	125.13
HL1		163.2	174.7
HPP		105.2	105.7
HL		106.7	118.3
MCE-4		125.13	125.13
TOTALS		834.0	858.0



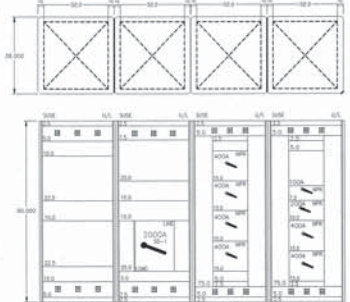
ELECTRICAL ONE-LINE DIAGRAM
NOT TO SCALE

GENERAL NOTES:

- PROVIDE (2) TWO CIRCUIT TORK #1101 TIMSWITCHES WITH PHOTOCELL #EPC1, CIRCUIT #1 PHOTO CELL ON/TIMELOCK OFF, CIRCUIT #2 PHOTOCELL ON/PHOTOCELL OFF.
- PROVIDE (4) REMOTE CONTROLLED LIGHTING CONTRACTORS. PROVIDE (3) 2-POLE AND (1) 1-POLE CONTRACTORS.

FEEDER SCHEDULE

- 4(4-500KCM)4"C
- 1 #3/0
- 4(4-250KCM + 1 #40)2 1/2"C
- 2(4-#4/0 + 1 #30)2"C
- 3 #1 + 1 #00)1 1/4"C
- 4(4-300KCM + 1 #20)2 1/2"C
- 4 #2 + 1 #00)1 1/4"C
- 2(4 #3/0 + 1 #30)2"C
- 4 #4/0 + 1 #40)2"C
- 3 #6 + 1 #00)3/4"C
- 3 #3 + 1 #00)1 1/4"C
- 3 #2)1 1/4"C
- 1 #20)1/2"C TO STRUCTURAL STEEL
- 1 #80)1/2"C TO STRUCTURAL STEEL
- 4 #4 + 1 #0 0)1"C
- 4 #2/0 + 1 #40)2"C
- 1 #40)1/2"C TO STRUCTURAL STEEL
- 4(4-350KCM + 1 #40)2 1/2"C
- 4 #6 + 1 #00)3/4"C



MAIN SWITCHBOARD (MSB)
2000A, 277/480V, 3PH, 4W
50,000 AIC

MECHANICAL EQUIPMENT SCHEDULE														MECHANICAL EQUIPMENT SCHEDULE													
KEY	DESCRIPTION	ELECTRICAL			FEEDER & CONDUIT	PROTECTION	TYPE	SIZE	CNTRL & FA	NOTES	KEY	DESCRIPTION	ELECTRICAL			FEEDER & CONDUIT	PROTECTION	TYPE	SIZE	CNTRL & FA	NOTES						
		LOAD	UNIT	VOLT									PH	LOAD	UNIT							VOLT	PH				
RTU-1	ROOF TOP UNIT	36.3	FLA	460	3	3 #2 + 1 #10 1" C	CB	60A3P	ADMIN BLDG.	RM-3	RADIANT HEATER	0.2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.	PROCESS BLDG.							
RTU-2	ROOF TOP UNIT	15.7	FLA	460	3	3 #2 + 1 #10 1" C	CB	30A3P	ADMIN BLDG.	RM-3	RADIANT HEATER	0.2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.	PROCESS BLDG.							
EF-1	EXHAUST FAN	1/3	HP	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.	RM-3	RADIANT HEATER	0.2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.	PROCESS BLDG.							
EF-2	EXHAUST FAN	1/3	HP	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.	PTAC-1	PACKAGED TERMINAL AIR CONDITIONER	5	KW	208	1	2 #2 + 1 #2 0 1/2" C	CB	40A3P	PROCESS BLDG.	PROCESS BLDG.							
EF-3	EXHAUST FAN	165	WATTS	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.	PTAC-2	PACKAGED TERMINAL AIR CONDITIONER	5	KW	230	1	2 #2 + 1 #2 0 1/2" C	CB	40A3P	SCALE BUILDING	SCALE BUILDING							
EF-4	EXHAUST FAN	2	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	C-1	COMPRESSOR	1	HP	208	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	PROCESS BLDG.							
EF-5	EXHAUST FAN	2	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	AD-1	AIR DRYER	1/4	HP	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.	PROCESS BLDG.							
EF-6	EXHAUST FAN	2	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	OH-1	OVER HEAD DOOR	5	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	PROCESS BLDG.							
EF-7	EXHAUST FAN	2	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	OH-2	OVER HEAD DOOR	5	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	PROCESS BLDG.							
EF-8	EXHAUST FAN	3	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	OH-3	OVER HEAD DOOR	5	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	PROCESS BLDG.							
EF-9	EXHAUST FAN	3	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	OH-4	OVER HEAD DOOR	5	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	PROCESS BLDG.							
EF-10	EXHAUST FAN	80	WATTS	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.	OH-5	OVER HEAD DOOR	5	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	PROCESS BLDG.							
B-1	BOILER BLOWER MOTOR	3/4	HP	120	1	2 #10 + 1 #10 0 1/2" C	CB	30HP	ADMIN BLDG.	OH-6	OVER HEAD DOOR	5	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	PROCESS BLDG.							
OH-1	WATER HEATER BLOWER MOTOR	1/5	HP	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.	OH-7	OVER HEAD DOOR	5	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	PROCESS BLDG.							
P-1	PUMP	5	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	ADMIN BLDG.	OH-8	OVER HEAD DOOR	5	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	PROCESS BLDG.							
P-2	PUMP	1/12	HP	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.	OH-9	OVER HEAD DOOR	5	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.	PROCESS BLDG.							
FPVAV-1	VARIABLE AIR VOLUME	1/8	HP	277	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.	HT-1	HEAT TRACE 200' WATER LINE	2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	30A1P	PROCESS BLDG.	PROCESS BLDG.							
FPVAV-2	VARIABLE AIR VOLUME	1/3	HP	277	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.	HT-2	HEAT TAPE DOWN SPOUTS	1.5	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.	PROCESS BLDG.							
FPVAV-3	VARIABLE AIR VOLUME	1/3	HP	277	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.	ELEV	ELEVATOR	20	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	20A3P	ADMIN BLDG.	ADMIN BLDG.							
FPVAV-5	VARIABLE AIR VOLUME	1/3	HP	277	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.	MCE-1	PROCESS EQUIPMENT	157	FLA	460	3	3-2500CM + 1 #4 0 2 1/2" C	CB	250A3P	PROCESS BLDG.	PROCESS BLDG.							
FPVAV-6	VARIABLE AIR VOLUME	1/3	HP	277	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.	MCE-2	PROCESS EQUIPMENT	104	FLA	460	3	3 #2 + 1 #2 0 1/2" C	CB	250A3P	PROCESS BLDG.	PROCESS BLDG.							
FPVAV-7	VARIABLE AIR VOLUME	1/3	HP	277	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.	MCE-3	PROCESS EQUIPMENT	157	FLA	460	3	3-2500CM + 1 #4 0 2 1/2" C	CB	250A3P	PROCESS BLDG.	PROCESS BLDG.							
FPVAV-8	VARIABLE AIR VOLUME	1/3	HP	277	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.	MCE-4	PROCESS EQUIPMENT	157	FLA	460	3	3-2500CM + 1 #4 0 2 1/2" C	CB	250A3P	PROCESS BLDG.	PROCESS BLDG.							
FPVAV-9	VARIABLE AIR VOLUME	1/3	HP	277	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.																		
FPVAV-10	VARIABLE AIR VOLUME	1/3	HP	277	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	ADMIN BLDG.																		
GM-1	CABINET UNDER HEATER	1/20	HP	208	1	2 #2 + 1 #2 0 1/2" C	CB	20A3P	ADMIN BLDG.																		
SF-1	SUPPLY FAN	3/4	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
SF-2	SUPPLY FAN	3/4	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
SF-3	SUPPLY FAN	3/4	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
SF-4	SUPPLY FAN	3/4	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
SF-5	SUPPLY FAN	3/4	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
SF-6	SUPPLY FAN	3/4	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
SF-7	SUPPLY FAN	3/4	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
SF-8	SUPPLY FAN	3/4	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
SF-9	SUPPLY FAN	1 1/2	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
SF-10	SUPPLY FAN	1 1/2	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
SF-11	SUPPLY FAN	1 1/2	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
SF-12	SUPPLY FAN	1 1/2	HP	460	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
EDI-1	ELECTRIC CABINET UNIT HTR.	5	KW	208	3	3 #2 + 1 #2 0 1/2" C	CB	20A3P	PROCESS BLDG.																		
EDI-2	ELECTRIC CABINET UNIT HTR.	4	KW	208	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
EDI-3	ELECTRIC CABINET UNIT HTR.	2	KW	208	3	3 #2 + 1 #2 0 1/2" C	CB	15A3P	PROCESS BLDG.																		
EMH-1	ELECTRIC WATER HEATER	4.1	KW	208	1	2 #10 + 1 #10 0 1/2" C	CB	30A3P	PROCESS BLDG.																		
RH-1	RADIANT HEATER	0.2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.																		
RH-1	RADIANT HEATER	0.2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.																		
RH-1	RADIANT HEATER	0.2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.																		
RH-1	RADIANT HEATER	0.2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.																		
RH-1	RADIANT HEATER	0.2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.																		
RH-2	RADIANT HEATER	0.2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.																		
RH-2	RADIANT HEATER	0.2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.																		
RH-2	RADIANT HEATER	0.2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.																		
RH-2	RADIANT HEATER	0.2	KW	120	1	2 #2 + 1 #2 0 1/2" C	CB	20A1P	PROCESS BLDG.																		

LUMINAIRE SCHEDULE													
KEY	QTY	LAMP(S)	DESCRIPTION	FRESH	MOIST	MANUFACTURER	SPECIFICATION	CATALOG NUMBER	VOLT				
A	2	F20T8/FPX3	4 INDUSTRIAL FLUORESCENT W/SHROUD ON STREET FACING UP, REFLECTOR W/SHROUD Y	WHITE ENAMEL	SURFACE	COLUMBIA	CEILING	CEILING	120				
B	2	F20T8/FPX3	4 COMMERCIAL HEAVY DUTY FLUORESCENT STOP LIGHT	WHITE ENAMEL	SURFACE	COLUMBIA	CEILING	CEILING	120				
BI	2	F20T8/FPX3	4 COMMERCIAL HEAVY DUTY FLUORESCENT STOP LIGHT	WHITE ENAMEL	SURFACE	COLUMBIA	CEILING	CEILING	120				
BE	2	F20T8/FPX3	4 COMMERCIAL HEAVY DUTY FLUORESCENT STOP LIGHT	WHITE ENAMEL	SURFACE	COLUMBIA	CEILING	CEILING	120				
C	1	W40X160/CLANR	SQUARE METAL HAZARD WITH REACTION W/OLDED PRISMATIC LENS	BRONZE	SURFACE	SPALDING	CEILING	CEILING	277				
CI	1	W40X160/CLANR	SQUARE METAL HAZARD WITH REACTION W/OLDED PRISMATIC LENS W/QUARTZ RESTRICTOR	BRONZE	SURFACE	SPALDING	CEILING	CEILING	277				
D	1	W40X160/CLANR	SQUARE METAL HAZARD WITH REACTION W/OLDED PRISMATIC LENS OUTDOOR	BRONZE	SURFACE	SPALDING	CEILING	CEILING	277				
E	1	W40X160/CLANR	SQUARE METAL HAZARD WITH REACTION W/OLDED PRISMATIC LENS OUTDOOR	BRONZE	SURFACE	SPALDING	CEILING	CEILING	277				
F	2	IS049	INCANDESCENT BATHROOM FIXTURE 1/2" SHARPE GLASS LENS	WHITE	WALL	ABEYE	PRECISCOUTE	WALL	120				
G	1	IS049/FL	RECESSED INCANDESCENT DOWN LIGHT	WHITE TRIM	RECESSED	PRECISCOUTE	WALL	WALL	120				
GI	1	7549	RECESSED INCANDESCENT SHOWER LIGHT	WHITE TRIM	RECESSED	PRECISCOUTE	WALL	WALL	120				
H	1	W40X160/CLANR	OUTDOOR METAL HAZARD/DC-CAST ALUMINUM HOUSING WITH VISION	BRONZE	WALL	HEIGHT	SPALDING	WALL	277				
J	2	F20T8/FPX3	4 W/ROCKY FLORESCENT FUTURE REWORKED HOUSING	WHITE	CEILING	CEILING	CEILING	CEILING	120				
K	3	F20T8/FPX3	7 3/4" 4 RECESSED FLUORESCENT TROFFER PRISMATIC LENS	WHITE	RECESSED	COLUMBIA	CEILING	CEILING	120				
L	4	75P49/FL	IF SINGLE CROSET LIGHT TRACK WITH 4- 75 WATT FLOOR LIGHTS	WHITE	SURFACE	PRECISCOUTE	CEILING	CEILING	120				
M	8	75P49/FL	20 TWO CROSET LIGHT TRACK WITH 8- 75 WATT FLOOR LIGHTS	WHITE	SURFACE	PRECISCOUTE	CEILING	CEILING	120				
N	2	FURNISHED	WALL MOUNTED EMERGENCY BATTERY LED W/AVANCEANCE FREE SEALED BATTERIES	STANDARD	WALL	HEIGHT	PRECISCOUTE	WALL	277				
NI	2	FURNISHED	WALL MOUNTED INDUSTRIAL EMERGENCY BATTERY LIGHT W/ AVANCEANCE FREE SEALED BATTERIES	STANDARD	WALL	HEIGHT	PRECISCOUTE	WALL	277				
P	1	IS049	OPAL GLASS CANDLE FOR ELEVATOR PIT	STANDARD	WALL	PRECISCOUTE	WALL	WALL	120				
R	1	W40X160/CLANR	400 WATT INDUSTRIAL METAL HAZARD WITH SHROUD & FLUOR	BRONZE	PENDANT	GENERAL ELECTRIC	CEILING	CEILING	277				

Name	U1	Wt	Method	SURFACE
Volt	480/277	Bus Rating		225
Ph	3	Wht Breaker		MCO
Ww	4	AC Rating		14,000

Code	Description	Lead	Str	P	Ph	Ph	P	Str	Lead	Description	Code	
1	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
2	1 Lighting First Floor	2328	20	1	A	B	C	1	20	2328	Lighting Second Floor	1
3	1 Lighting First Floor	2328	20	1	A	B	C	1	20	2328	Lighting Second Floor	1
4	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
5	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
6	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
7	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
8	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
9	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
10	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
11	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
12	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
13	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
14	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
15	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
16	1 Phase Area Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
17	1 1/2" Pipe Lighting (24)	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
18	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
19	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
20	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
21	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
22	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
23	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
24	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
25	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
26	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
27	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
28	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
29	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
30	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
31	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
32	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
33	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
34	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
35	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
36	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
37	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
38	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
39	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
40	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1
41	1 1/2" Pipe Lighting	2000	20	1	A	B	C	1	20	2000	Spigot Area Lighting	1

Code	Description	Lead VA	Dem	Per	Phase	Lead Summary
1	Lighting	41700	1228		Ph A	32001 VA
2	Rec up to 15,000	0	1000		Ph B	3718 VA
3	Water	0	1000		Ph C	3633 VA
4	Neutral	0	1000	Connected		10470 VA
5	Kilohm	0	1000	Code Demand		11875 VA
6	Miscellaneous	0	1000	Code Demand		2828 VA
7	Sub Panel	6000	1000	Code Demand		12648 Amps

Name	U1	Wt	Method	SURFACE
Volt	480/277	Bus Rating		400
Ph	3	Wht Breaker		MCO
Ww	4	AC Rating		14,000

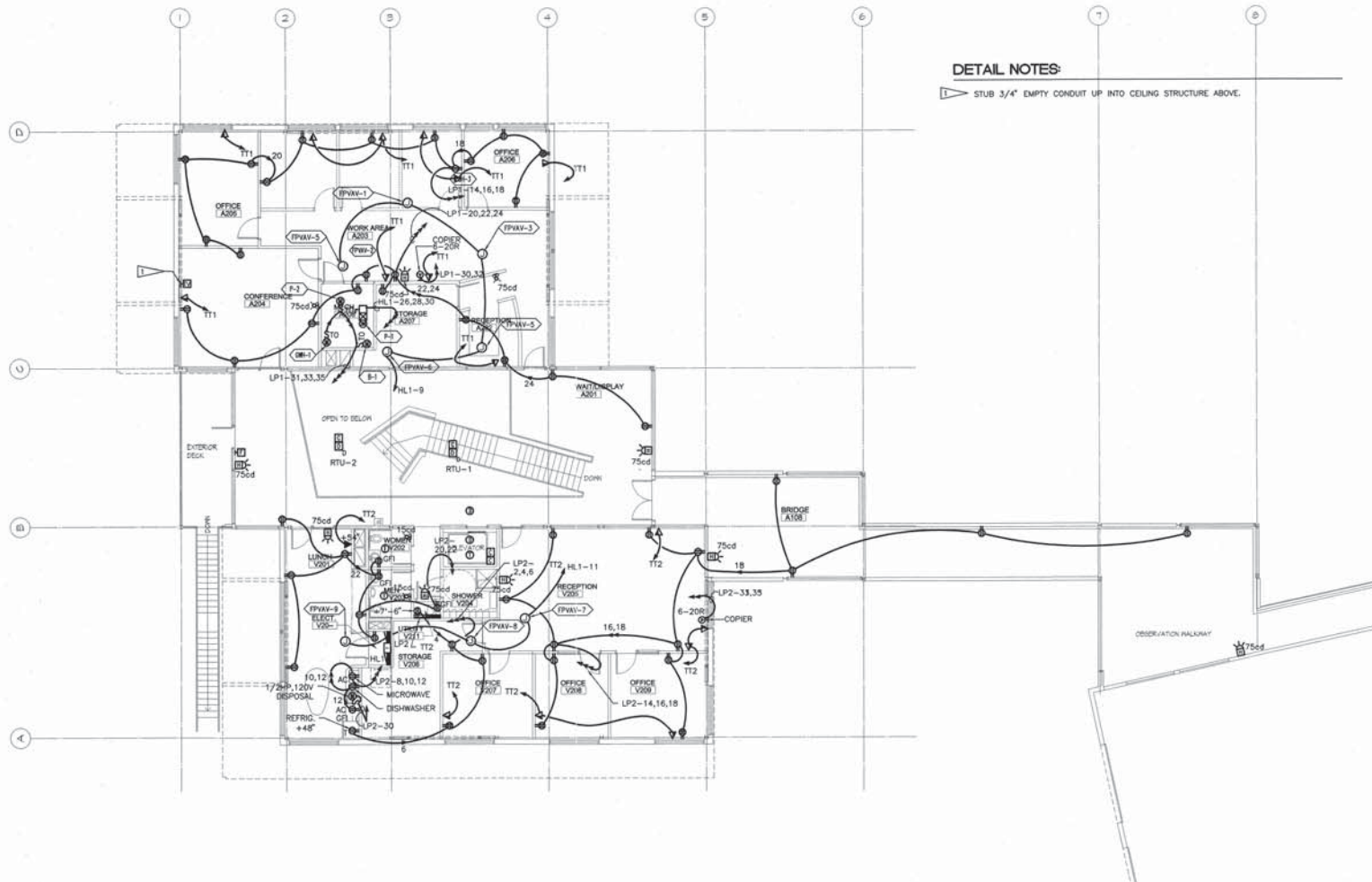
Code	Description	Lead	Str	P	Ph	Ph	P	Str	Lead	Description	Code	
1	1 Lighting First Floor	2463	20	1	A	B	C	1	20	2463	Lighting Second Floor	1
2	1 Lighting First Floor	2328	20	1	A	B	C	1	20	2328	Lighting Second Floor	1
3	1 Exterior Sign Lighting	1662	20	1	A	B	C	1	20	1730	Lighting Second Floor	1
4	1 Sign	1000	20	1	A	B	C	1	20	1718	Sign Lighting (24)	1
5	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
6	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
7	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
8	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
9	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
10	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
11	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
12	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
13	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
14	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
15	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
16	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
17	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
18	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
19	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
20	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
21	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
22	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
23	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
24	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
25	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
26	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
27	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
28	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
29	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
30	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
31	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
32	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
33	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
34	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
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36	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
37	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
38	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
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40	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1
41	6 Wht-A, B & C	1000	20	1	A	B	C	1	20	2420	Sign Lighting	1

Code	Description	Lead VA	Dem	Per	Phase	Lead Summary
1	Lighting	17153	1228		Ph A	50012 VA
2	Rec up to 15,000	0	1000		Ph B	5608 VA
3	Water	0	1000		Ph C	5204 VA
4	Neutral	0	1000	Connected		16373 VA
5	Kilohm	0	1000	Code Demand		17494 VA
6	Miscellaneous	0	1000	Code Demand		21637 Amps
7	Sub Panel	7000	1000	Code Demand		21637 Amps

Lighting ties into ELEC schedule

Name	U1	Wt	Method	SURFACE
Volt	480/277	Bus Rating		400
Ph	3	Wht Breaker		MCO
Ww	4	AC Rating		14,000

Code	Description	Lead	Str	P	Ph	Ph	P	Str	Lead	Description	Code	
1	1 1/2" Pipe	2710	15	3	A	B	C	3	15	2710	1/2" Pipe	1
2	1 1/2" Pipe	2710										



DETAIL NOTES

1 ▽ STUB 3/4" EMPTY CONDUIT UP INTO CEILING STRUCTURE ABOVE.



**ADMINISTRATION BUILDING
SECOND FLOOR POWER/COMM. PLAN**

0 3 6 9' SCALE 1/8" = 1'-0"

EDGE
ARCHITECTURE

2206 Pearl Street
Suite 200
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**BOULDER COUNTY RECYCLING AND COMPOSTING AUTHORITY
RECYCLABLES PROCESSING CENTER**
Boulder, Colorado
63rd Street

Revisions
PERMIT SET 11/22/99
PERMIT SET 01/12/00

22 November 99
Project #: 15359
Drawn by: ATJ
Checked by: PLW
Filename: 15359r-02.dwg

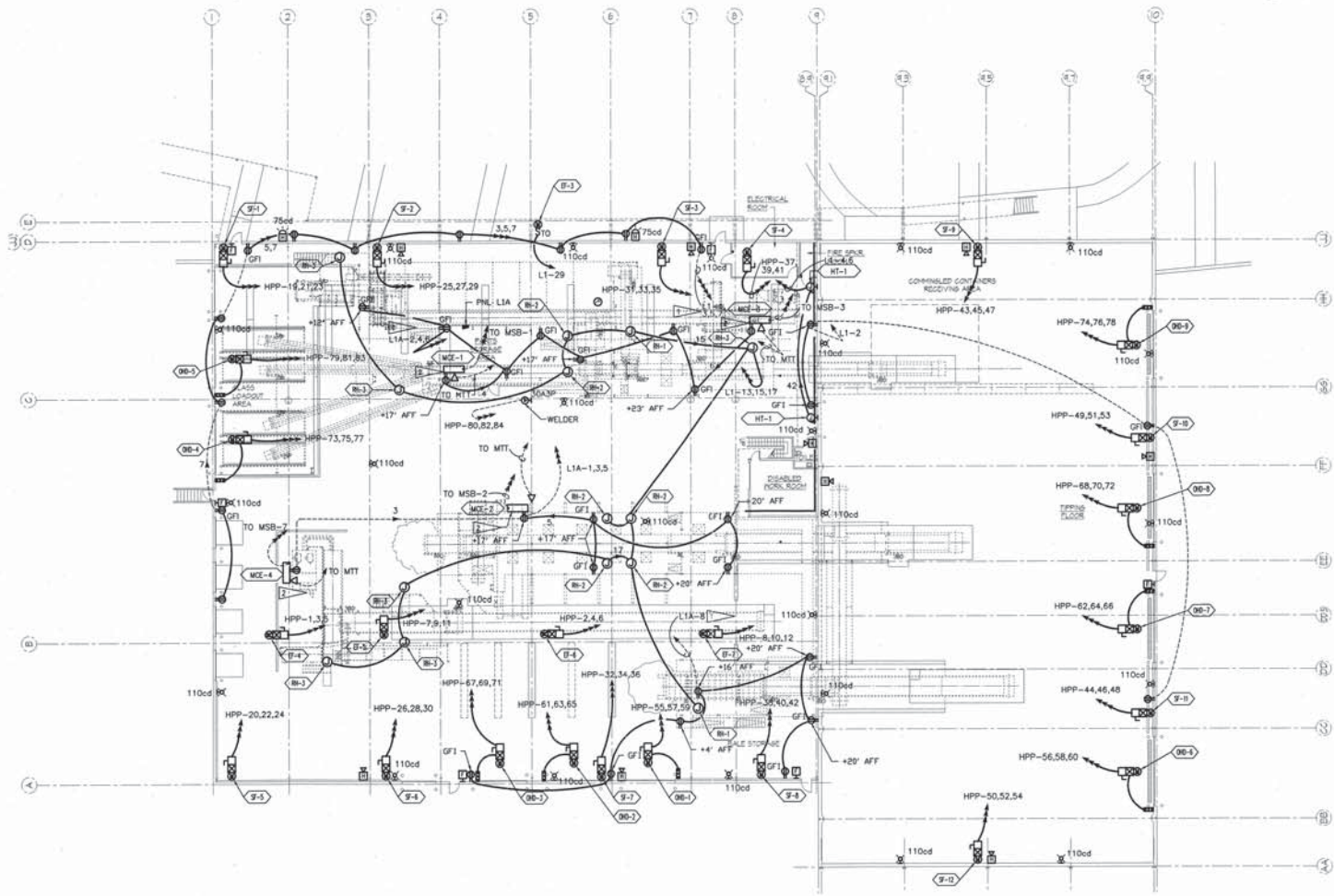
SECOND FLOOR
PWR/COMM PLAN

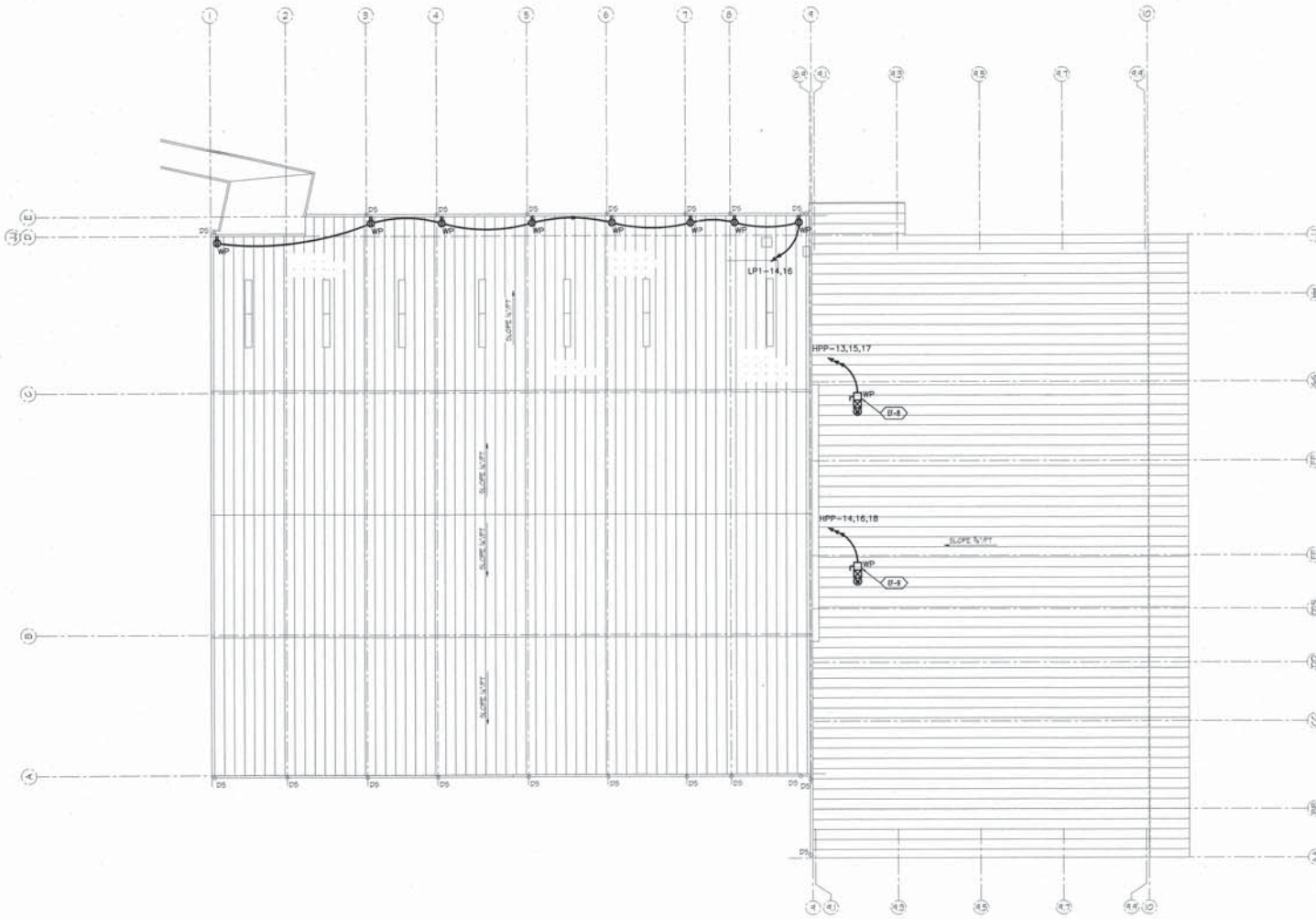
Sheet Number

E2

DETAIL NOTES:

- 1 PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT.
- 2 CONNECT CONTROL PANEL (MCE) LIGHT FIXTURE TO RECEPTACLE CIRCUIT.





**PROCESSING BUILDING
ELECTRICAL ROOF POWER PLAN**

SCALE 1/8" = 1'-0"

**EDGE
ARCHITECTURE**

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**BOULDER COUNTY RECYCLING AND COMPOSTING AUTHORITY
RECYCLABLES PROCESSING CENTER**
Boulder, Colorado
63rd Street

Revisions

PERMIT SET	11/22/99
PERMIT SET	01/12/00

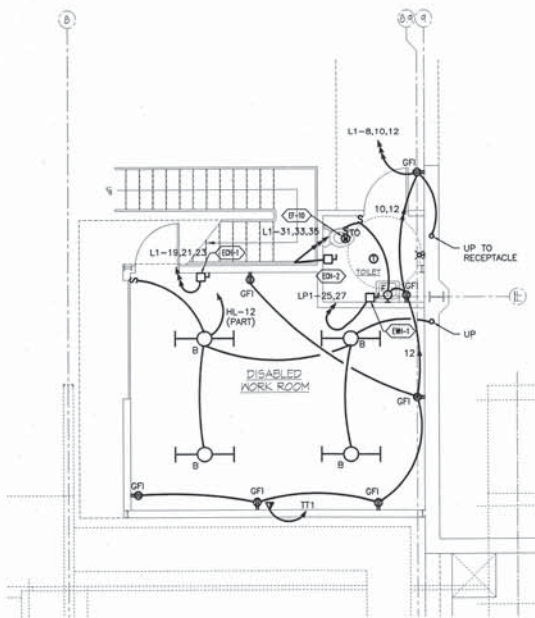
22 November 99

Project #: 10359
Drawn by: ATI
Checked by: PLW
Filename: 10359.dwg

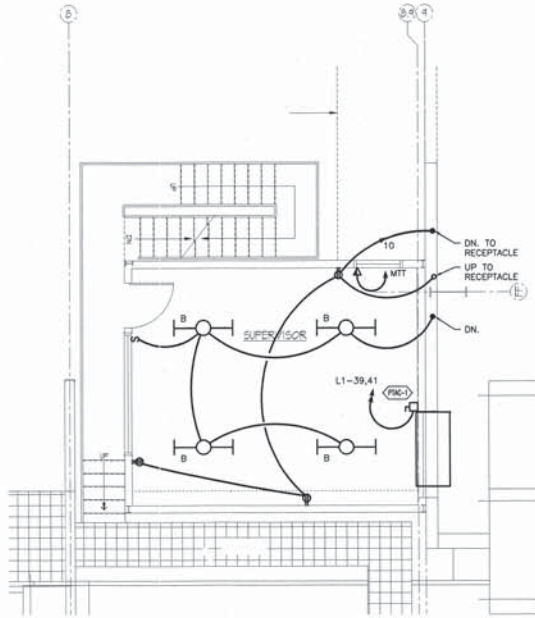
ELECTRICAL ROOF
POWER PLAN

Sheet Number

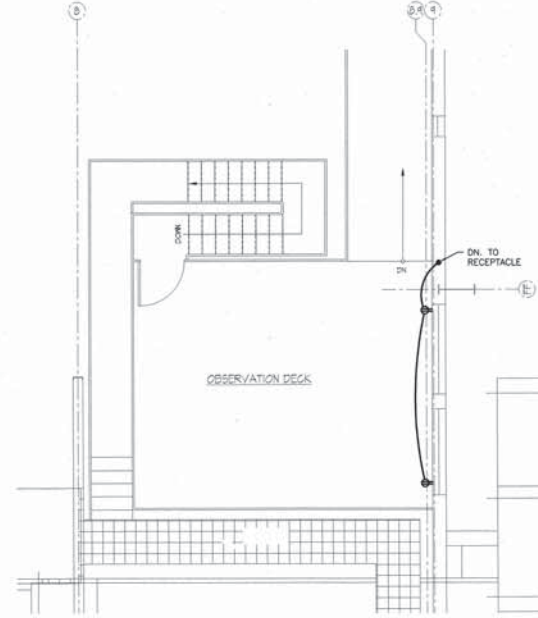
E5



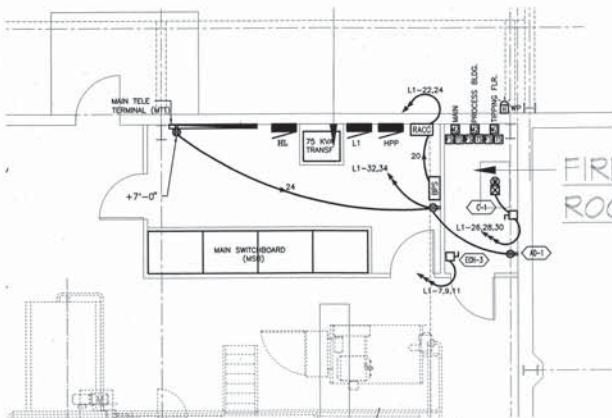
LOWER LEVEL ELECTRICAL TOWER PLAN
SCALE 1/4" = 1'-0"



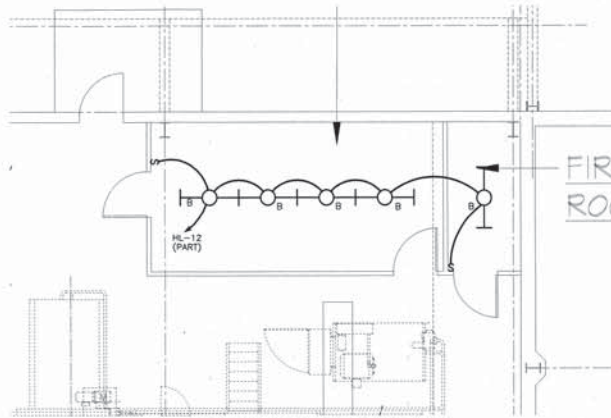
MID-LEVEL ELECTRICAL TOWER PLAN
SCALE 1/4" = 1'-0"



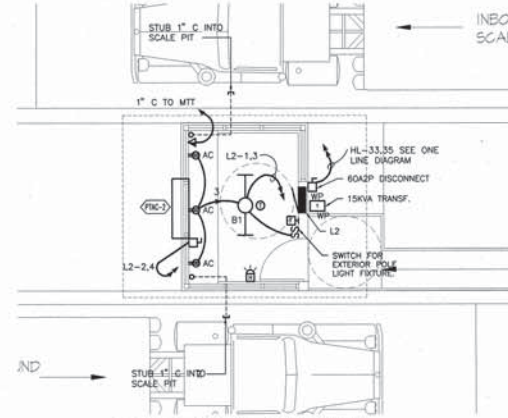
UPPER-LEVEL ELECTRICAL TOWER PLAN
SCALE 1/4" = 1'-0"



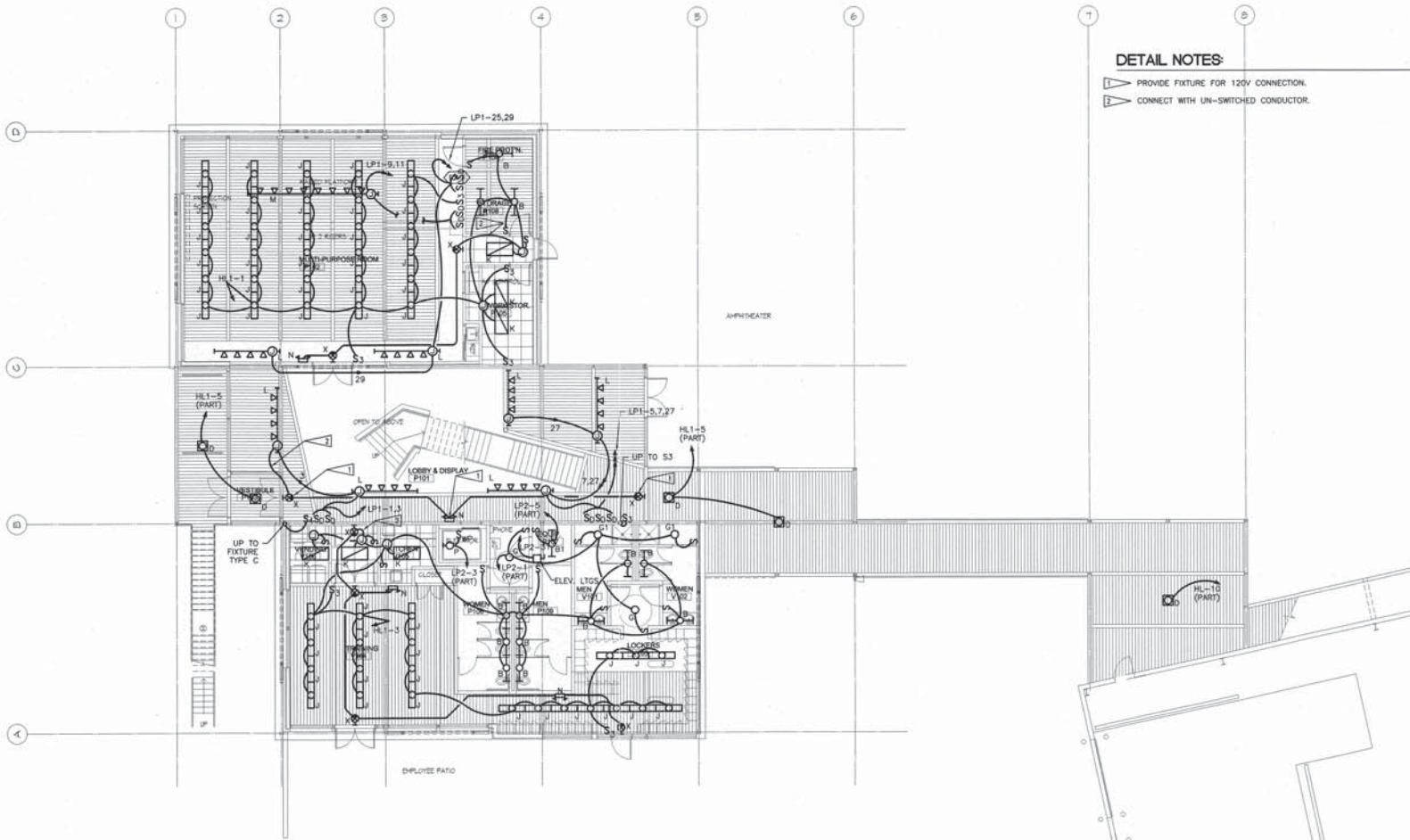
PROCESSING BUILDING ELECTRICAL ROOM POWER PLAN
SCALE 1/4" = 1'-0"



PROCESSING BUILDING ELECTRICAL ROOM LIGHTING PLAN
SCALE 1/4" = 1'-0"



SCALE HOUSE ELECTRICAL PLAN
SCALE 1/4" = 1'-0"



**ADMINISTRATION BUILDING
FIRST FLOOR LIGHTING PLAN**

SCALE 1/8" = 1'-0"

DETAIL NOTES:

- ▽ PROVIDE FIXTURE FOR 120V CONNECTION.
- ▽ CONNECT WITH UN-SWITCHED CONDUCTOR.

EDGE
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**BOULDER COUNTY RECYCLING AND COMPOSTING AUTHORITY
RECYCLABLES PROCESSING CENTER**
Boulder, Colorado
63rd. Street

Revisions	
PERMIT SET	11/02/99
PERMIT SET	01/13/00

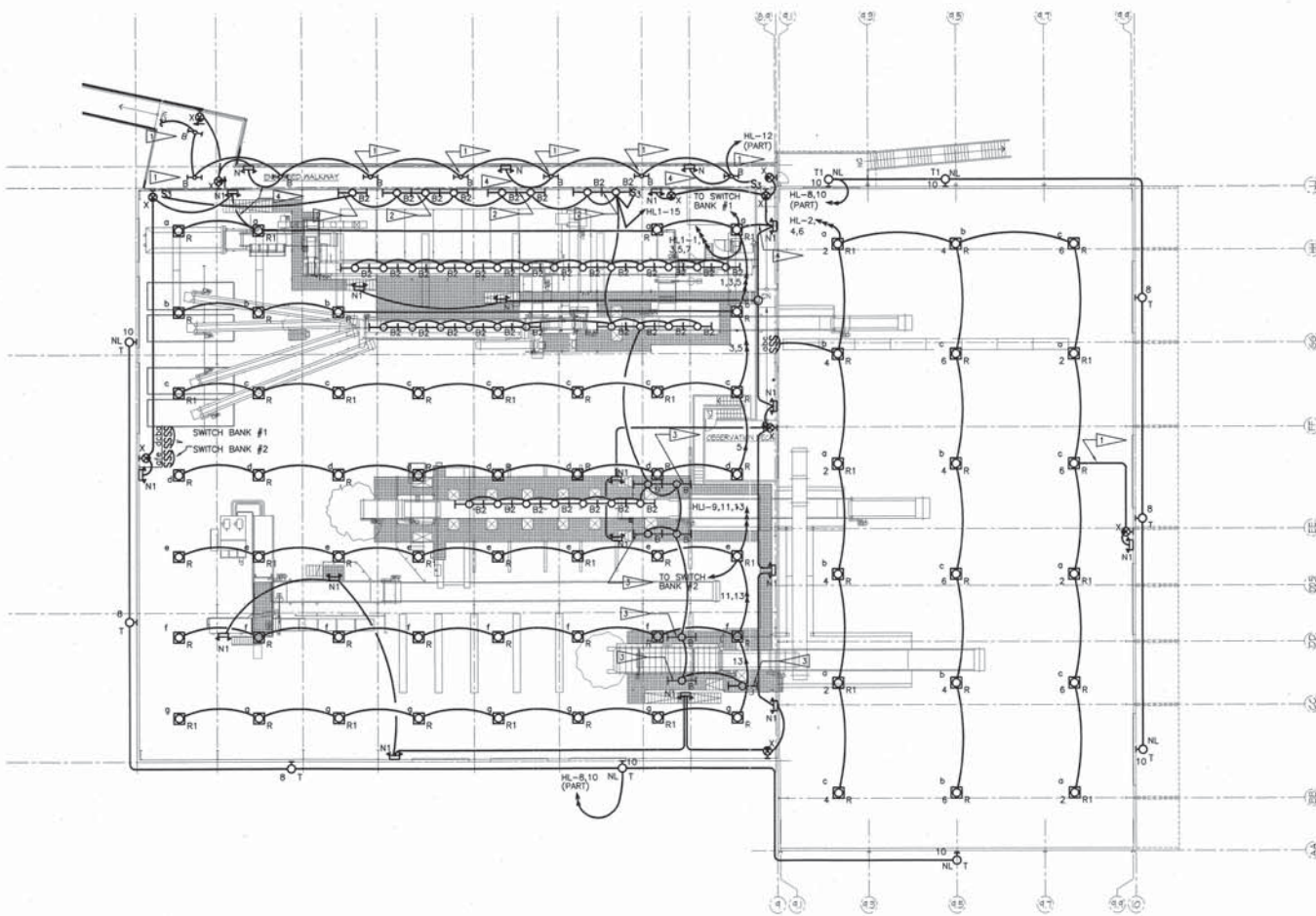
22 November 99

Project # 13289
Drawn by: ATI
Checked by: PLW
Planner: 13289-1-dg

FIRST FLOOR
LIGHTING PLAN

Sheet Number

EL1



DETAIL NOTES:

- ▽ PROVIDE WIRE GUARD FOR THIS FLUORESCENT FIXTURE.
- ▽ WALL MOUNT FLUORESCENT STRIPS FIXTURES BELOW WINDOWS.
- ▽ MOUNT FLUORESCENT STRIP FIXTURES ON UNDER SIDE OF PLATFORM.
- ▽ CONNECT WITH UN-SWITCHED CONDUCTOR.



**PROCESSING BUILDING
UPPER LEVEL LTNG./FIRE ALRM. PLAN**

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

Revisions

PERMIT SET	11/22/99
PERMIT SET	01/12/00

22 November 99

Project # 10289
Drawn by: ATI
Checked by: PLW
Fluorence: 10/28/99-dwg

FIRST & SECOND FLOOR
LTNG/FIRE ALARM PLAN

Sheet Number