



REQUEST FOR PROPOSALS

FOR

**SRIA MEETING ROOM
AND LOBBY RENOVATIONS**

RFP 2026-01

**SANTA ROSA ISLAND AUTHORITY
A DEPENDENT SPECIAL DISTRICT OF
ESCAMBIA COUNTY, FLORIDA**

RELEASE DATE: DECEMBER 22, 2025

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I. INTRODUCTION AND BACKGROUND

A. Summary

Located in the Florida panhandle, the Santa Rosa Island Authority (the “Authority” or “SRIA”) is a dependent special district of Escambia County, created by the Florida legislature in 1947 for the purpose of overseeing commercial and residential development and being the governing body of Pensacola Beach, FL. Although Pensacola Beach is part of Escambia County, it lies immediately south of the City of Gulf Breeze, FL, which is part of Santa Rosa County. The SRIA is governed by a six (6) member Board; five (5) appointed by the Escambia County Board of County Commissioners and one elected by the residents of Pensacola Beach. The Authority governs the area known as Pensacola Beach which is a barrier island bordered on the north by the Pensacola Bay and Santa Rosa Sound, the south by the Gulf of Mexico, and to the east and west by the Gulf Islands National Seashore. The jurisdiction of the Authority is approximately eight miles long. Pensacola Beach has a strong and long-standing residential community, but it is also a popular seasonal destination for visitors and part-time residents.

It is the intent of the Authority to select a single firm for the SRIA meeting room, lobby and lobby restrooms renovations at the SRIA administrative office.

B. Contact Information

Mike Burns, Executive Director

Santa Rosa Island Authority

1 Via de Luna

Pensacola Beach, FL 32561 Email:

mike_burns@sria-fla.com

Phone: (850) 932-2257

C. Timeline

Below is the current schedule of the events that will take place as part of this solicitation. The Authority reserves the right to make changes or alterations to the schedule as the Authority determines is in the best interest of the public. If any changes to the Schedule of Events are made, the Authority will post the changes on SRIA’s BidNet portal (<https://www.bidnetdirect.com/florida/santarosaislandauthority>) either as a public meeting notice or as an addendum, as applicable. Ultimately, it is the responsibility of the firm and other interested persons and parties to review the SRIA’s BidNet portal to stay informed of the Schedule of Events, addenda to the RFP, and public meetings.

Release Project Date	December 22, 2025
Pre-Response Meeting and Site Visit (Mandatory)	January 6, 2026 10:00 am (Central Time) MANDATORY Pre-Response Meeting will be held on site and via Microsoft Teams Meeting. Meeting ID: 292 263 291 719 26 Passcode: ay7QH3f4 Site visit is recommended.
RFI and Substitution Request Deadline	January 13, 2026, 5:00 pm (Central Time)
Response to RFI and Substitution Request	January 15, 2026, 5:00 pm (Central Time)
Proposal Opening Date	January 26, 2026, 2:00 pm (Central Time) Santa Rosa Island Authority 1 Via de Luna Pensacola Beach, FL 32561
Opening Call-In Information (alternative)	January 26, 2026, 2:00 pm (Central Time) Microsoft Teams Meeting Meeting ID: 249 479 668 185 15 Passcode: Bi6Ny2bV
Proposal Review Committee Meeting	January 27, 2026 (tentative)
Proposal Review Committee Recommendation to Award Bid to SRIA Board	January 28, 2026 (tentative)

II. IMPORTANT INSTRUCTIONS

A. Proposal Submittals

Proposals are to be submitted electronically through SRIA's BidNet portal (<https://www.bidnetdirect.com/florida/santarosaislandauthority>) and one hard copy submitted to the SRIA office (1 Via de Luna, Pensacola Beach, FL, 32561) on or before the deadline. Proposals will be retained as property of the Authority and subject to disclosure under the Public Records Act (F.S. 119.071(1)2) at such time as the SRIA posts an intended decision or thirty (30) days after opening of the documents, whichever is earlier. The contents of the Proposal of the successful Respondent will become part of the contractual obligations.

The Proposal shall include the following elements in this order and with the respective information:

Tab 1: Executive Summary

(0-5 points)

- A. Submission Checklist (Form is provided in Attachment 2)
- B. Cover Sheet (Form is provided in Attachment 2)
- C. Firm name or Joint Venture, business address and office location, telephone number, and e-mail address for contact person for this RFP.
- D. Provide address of the office that is to perform the work, if different.
- E. Present in brief, concise terms, a summary-level description of the institution, its capabilities, and the distinctive competitive attributes of the respondent to provide the scope of services. Give the name(s) of the person(s) of key personnel who will be authorized to make representations for the respondent, their title(s), address(es), telephone number(s), and E-mail address(es).
- F. The summary must be limited to a maximum of two pages and the person signing for the Respondent must declare that the RFP Response is in all respects fair and in good faith without collusion or fraud and that the persons signing for the Respondent has the authority to bind principal Respondent.
- G. Required forms listed in Section IV. Required Forms and Submittals (Provided in Attachment 2)

Tab 2: Ability and Experience

(0-25 points)

The Respondent shall demonstrate ability and experience with projects of similar type and size and should incorporate the following:

- A. Provide a brief summary of the Respondent's capabilities and expertise for commercial and government renovation projects (Limit response to a maximum of five (5) pages)
- B. Provide five (5) projects performed within the past ten (10) years which best illustrate the experience of the Respondent as related to the desired services. At least three (3) of the projects provided must be projects performed for public entities (past SRIA projects may be included). (Limit response to maximum of two (2) pages per project)

For each project include:

- Name and location of the project
- Size and cost of the project
- Project owner's representative name, address, phone number, and email address
- Date project was completed or is anticipated to be completed with current status
- The nature of the Respondent's responsibility on the project; and
- Unforeseen circumstances, errors or oversights and actions taken to mitigate and/or correct.

Tab 3: Firm's Current and Projected Workload/Timely Completion of Projects

(0-10 points)

Describe the firm's current and future projected workload. Describe the current project assignment(s) for the key personnel identified in Tab 1. Include specifically the Respondent's daily ability

to handle each aspect of the desired services described herein. Describe how the Respondent plans to maintain a project team member's time in order to ensure sufficient time to complete a project. (Limit response to maximum of two (2) pages);

Tab 4: Local Business Preference

(0-5 points)

A maximum of 5 points will be awarded for this criterion:

- 5 points for business with a home office in Escambia or Santa Rosa County, or
- 3 points for businesses with a local office in Escambia or Santa Rosa County, or
- 0 points for businesses with no local presence

- **Tab 5: Minority/Women Business Enterprise Documentation**

(0-5 points)

A maximum of 5 points will be awarded for this criterion:

- 5 Points - If the Respondent is a minority or woman-owned business then 5 points will be allocated. The SRIA will recognize the following documentation to meet the requirement of a certified M/WBE status:

Valid M/WBE Certification from one of the following:

- Escambia or Santa Rosa County
 - The State of Florida Office of Supplier Diversity
 - Women Business Enterprise Nation Council
 - U.S. Small Business Administration
- 2 Points – If the Respondent identifies a sub-contractor that has certified M/WBE status as documented through the same options as identified above. Additionally, said sub-contractor must have been identified under Tab 1.
 - 0 Points – If neither of the above apply

- **Tab 6: Interactions with Regulatory Agency Staff**

(0-15 points)

- A. Provide a summary supporting the specialized qualifications of the proposed key personnel identified in Tab 1 in terms of meeting the scope of services for this contract.

The summary should highlight the knowledge and experience with regulatory agencies and include:

- Identification of the specific Federal, State, and Local regulatory agencies
- The activities addressed with each agency (i.e. regulations, project documentation, regular reports, etc.)
- Any experience as a previous employee with regulatory agencies

- B. Include the Respondent's ability to work with SRIA staff in order to successfully fulfill the desired services.

Tab 7: Surveys of Past Performance

(0-10 points)

**Form provided in Attachment 1*

- **Tab 8: Cost Proposal and All other required documents**

(0-10 points)

**Form provided in Attachment 2*

B. Mandatory Pre-Response Meeting and Site Visit

A Mandatory Pre-Response Meeting and Site Visit will be held on Tuesday January 6, 2026, at 10:00 am (Central Time). The Location is as follows: 1 Via De Luna and via Microsoft Teams Meeting. Microsoft Teams Meeting ID: 292 263 291 719 26, Passcode: ay7QH3f4. **All interested Respondents are required to attend.**

The Pre-Response Meeting will be a public meeting that the public is invited to attend either physically in person or via Microsoft Teams Meeting the Authority's discretion. Instructions for conferencing-in will be provided as part of the public meeting notice, which will be posted on the website listed above for public meetings no less than 48 hours in advance of the Pre-Response Meeting. The Respondents will be instructed to submit all questions posed during the meeting, in writing, to the Authority's Executive Director through the BidNet portal at <https://www.bidnetdirect.com/florida/santarosaislandauthority> by close of business the day of the meeting for the purpose of memorializing the questions asked in the meeting so a formal response can be provided to all Respondents. **Any additional questions must be received no later than 5:00 pm (central time) on January 13, 2026.**

The purpose of the Pre-Response Meeting is to provide a forum to answer questions concerning the RFP, instructions for submitting Proposals, establish a Respondents list of contacts for future correspondence, and any other relevant issues. In the event any discussions or questions at the Pre-Response Meeting require, in the Authority's opinion, official additions, deletions, or clarifications of the RFP, the Authority will issue a written summary of questions and answers or addenda to this RFP as the Authority determines is appropriate and post through the BidNet platform.

During and after the Pre-Response Meeting, it is the responsibility of the Authority to ensure that potential Respondents develop their Proposals with the same information. If a Respondent receives information from the Authority relating to the RFP prior to the information cutoff date, the Authority will ensure that all potential Respondents (as identified at the Pre-Response Meeting) receive the same information in a timely fashion.

It is the sole responsibility of the Responder to inspect the project site and become familiar with the scope of the SRIA's requirements and systems prior to submitting a proposal. No variation in price or conditions shall be permitted based upon a claim of ignorance. The submission of a proposal will be considered evidence that the Responder is familiar with the nature and extent of the work, equipment, materials, and labor required.

C. Submitting Questions

Any questions concerning the request for proposal process, required submittals, evaluation criteria, response schedule, and selection process should be sent to the Authority's Executive Director through the BidNet portal <https://www.bidnetdirect.com/florida/santarosaislandauthority>.

Each Vendor shall examine the request for proposal documents carefully; and, no later than the date and time listed in the timeline, make a written request to the Authority for interpretations or corrections of any ambiguity, inconsistency or error which may be discovered.

These inquiries or requests for clarification must provide the questions along with the relevant Section(s), Subsection(s), Paragraph(s), and page number(s) of the RFP that are in question. The SRIA will consider only those communications and/or inquiries submitted through the BidNet portal and received no later than 5:00 pm (central time) on **January 13, 2026**.

The SRIA will consider the Respondent's lack of communicating inquiries or requesting clarifications by the Questions/Inquiries Deadline Date to constitute the Respondent's acceptance of all of the conditions and requirements as stated in this RFP and any amendments thereto.

All interpretations or corrections will be issued as addenda. The Authority will not be responsible for oral clarifications. No negotiations, decisions or actions shall be initiated or executed by the respondent as a result of any discussions with any Authority employee prior to the opening of proposals.

D. Request For Information (RFI)

Responders may request additional information, clarification, or modifications in the form of a Request for Information ("RFI"). Responders must send their RFIs to the Authority's Executive Director through the BidNet portal <https://www.bidnetdirect.com/florida/santarosaislandauthority> in order to receive a response. The request must include the Responder's name, the RFP number, and RFP title. Any RFI must be submitted prior to the deadline for questions indicated in the Timeline schedule in (Section I) to receive a response. Late or mis-delivered requests may not receive response from the Authority.

The Authority will issue responses to RFIs, and any other corrections or amendments it deems necessary, in the form of a written addendum. The Authority, at its sole discretion, may not issue a response to an RFI. Responders should not rely on any representations made outside of these written addenda. Where a conflict appears between the RFP and any issued addendum, the last addendum issued will prevail.

Addenda will be made available through the BidNet portal <https://www.bidnetdirect.com/florida/santarosaislandauthority>. It is the vendor's sole responsibility to ensure receipt of all addenda prior to submitting a response.

E. Addenda

If the Authority finds it necessary to add to, or amend this RFP prior to the Response submittal deadline, the Authority will issue written addenda/addendum. Each Responder must acknowledge receipt of each addendum by signing the acknowledgement Section IX. (B) and providing it with its Response.

F. CERTIFICATION

The signer of the Response (to this RFP) must declare by signing the Forms included in (Section IX Attachment B) that the person(s), firm(s) and parties identified in the Response are interested in and available for providing the Services; that the Response is made without collusion with any other person(s), firm(s) and parties; that the Response is fair in all respects and is made in good faith without fraud; and that the signer of the cover letter of the Response has full authority to bind the person(s), firm(s) and parties identified in the Response.

G. Prohibited Communications and Cone of Silence

Regarding this RFP, any form of communication, except for written correspondence with the Executive Director requesting clarification or asking questions, shall be prohibited.

The prohibition on communications shall be in effect as of the release of the RFP and terminate at the time the Board, or SRIA Proposal Review Committee authorized to act on behalf of the Board, awards or approves a contract, rejects all responses, or otherwise acts which ends the solicitation process.

The provisions of this section shall not apply to oral communications at any public proceeding, including pre-response conferences, oral presentations before selection committees, contract negotiations during any public meetings, presentations made to the Board, and protest hearings; provided, however, between the deadline for submission of responses to the RFP and final selection, Respondents shall not lobby or otherwise attempt to persuade or influence SRIA Proposal Review Committee members, Board members, officials, or staff, on decisions to be made relating to the award, except in public presentations and interviews requested by the SRIA. Further, the provisions of this section shall not apply to contract negotiations between any employee and the intended awardee, any dispute resolution process following the filing of a protest between the person filing the protest and any employee, communications with the SRIA Attorney, or communications with the Executive Director.

Violation of this section may result in disqualification from this solicitation and shall be grounds for suspension from doing business with the SRIA.

H. Special Accommodation

Any person requiring a special accommodation at a Pre-Response Meeting or RFP opening because of a disability should call the SRIA office at (850) 932-2257 at least five (5) workdays prior to the Pre-Response Meeting or RFP opening and speak with Ms. Robbie Schrock or Ms. Kara Gauntt.

I. Respondent Registration

Potential respondents who attend the Pre-Response Meeting on January 6, 2026, will be asked to provide contact information and will be considered officially registered with the SRIA in order to be placed on the Respondents list for the solicitation. This list may be used for communications from the SRIA to prospective Respondents.

J. Response Deadline

Responses to this RFP must be received via the BidNet portal <https://www.bidnetdirect.com/florida/santarosaislandauthority> and one hard copy submitted to the SRIA office (1 Via de Luna, Pensacola Beach, FL, 32561) no later than the Opening Date (Monday, January 26, 2026, at 2:00 pm, central time), as identified in the Schedule of Events, to be considered.

It is the Respondents' responsibility to ensure that the proposal is delivered at the proper time and location. Responses received after the scheduled receipt time will be deemed "TOO LATE".

K. Receipt and Opening of Responses

Proposals will be printed and reviewed publicly at the date and time identified in the Schedule of Events as the Opening Date. A tabulation sheet of timely received Proposals will be made public and will be posted on the SRIA BidNet portal at: <https://www.bidnetdirect.com/florida/santaro-saislandauthority>.

The BidNet system secures all proposals received prior to the time of opening such that they cannot be accessed until the actual, designated closing time of the solicitation. The Executive Director or their designee will then unlock the responses and print them for review by Proposal Review Committee. The system will not accept proposals after the designated opening time. Additionally, in the event of technical failure, the SRIA is requiring one hard copy be submitted to the SRIA office (1 Via de Luna, Pensacola Beach, FL, 32561) on or before the designated closing time of the solicitation.

Sealed responses or replies received by the SRIA pursuant to competitive solicitation are exempt from public records disclosure until such time as the SRIA posts an intended decision or until 30 days after opening of the documents, whichever is earlier.

L. Preparation Costs

The SRIA is not liable for any costs incurred by Respondents in the preparation of the proposal and the submittal.

M. Reservation of Rights

The SRIA reserves the right to reject any and/or all proposals, in whole or in part, when such rejection is in the best interest of the SRIA. Further, the SRIA reserves the right to withdraw this solicitation at any time prior to final award of contract.

N. Public Entity Crimes Statement

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list. By submission of a Response to this solicitation, the Respondent certifies compliance with the above requirements as stated in Section 287.133, Florida Statutes. *Required submittal the Public Entity Crimes Form (Attachment B)

O. Certification Regarding Debarment, Suspension, & Other Responsibility Matters

The prospective primary participant must certify to the best of its knowledge and belief, that it and its principals are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

P. Licenses and Registrations

The selected Respondent shall be responsible for obtaining and maintaining throughout the contract period any licenses or registrations required pursuant to the policies of the Santa Rosa Island Authority, laws of Escambia County, or the State of Florida.

If the selected Respondent is operating under a fictitious name as defined in Section 865.09, Florida Statutes, proof of current registration with the Florida Secretary of State **shall be submitted** with the response. A business formed by an attorney actively licensed to practice law in this state, by a person actively licensed by the Department of Business and Professional Regulation or the Department of Health for the purpose of practicing his or her licensed profession, or by any corporation, partnership, or other commercial entity that is actively organized or registered with the Department of State **shall submit** a copy of the current licensing from the appropriate agency and/or proof of current active status with the Division of Corporations of the State of Florida or such other state as applicable.

Failure to provide the above required documentation may result in the response being determined as non-responsive.

Q. Audits, Records, and Records Retention

The selected Respondent shall agree:

1. To establish and maintain books, records, and documents (including electronic storage media) in accordance with generally accepted accounting procedures and practices, which sufficiently and properly reflect all revenues and expenditures of funds provided by the SRIA under this contract.
2. To retain all client records, financial records, supporting documents, statistical records, and any other documents (including electronic storage media) pertinent to this contract for a period of five (5) years after termination of the contract, or if an audit has been initiated and audit findings have not been resolved at the end of five (5) years, the records shall be retained until resolution of the audit findings or any litigation which may be based on the terms of this contract.
3. Upon completion or termination of the contract and at the request of the SRIA, the selected Respondent must agree to cooperate with the SRIA to facilitate the duplication and transfer of any said records or documents during the required retention period as specified above.
4. To assure that these records shall be subject at all reasonable times to inspection, review, or audit by Federal, State, or other personnel duly authorized by the SRIA.
5. Persons duly authorized by the SRIA and Federal auditors, pursuant to 45 CFR, Part 92.36(l)(10), shall have full access to and the right to examine any of provider's contract

and related records and documents, regardless of the form in which kept, at all reasonable times for as long as records are retained.

6. To include these aforementioned audit and record-keeping requirements in all approved subcontracts and assignments.

R. Monitoring

The selected Respondent must agree to permit persons duly authorized by the SRIA to inspect any records, papers, documents, facilities, goods, and services of the provider which are relevant to this contract and interview any clients and employees of the provider to assure the SRIA of satisfactory performance of the terms and conditions of this contract.

Following such evaluation, the SRIA will deliver to the provider a written report of its findings and will include written recommendations regarding the provider's performance of the terms and conditions of this contract. The provider will correct all noted deficiencies identified by the SRIA within the specified period of time set forth in the recommendations. The provider's failure to correct noted deficiencies may, at the sole and exclusive discretion of the SRIA, result in any one or any combination of the following: (1) the provider being deemed in breach or default of this contract; (2) the withholding of payments to the provider by the SRIA; and (3) the termination of this contract for cause.

S. Unauthorized Alien(s)

The selected Respondent must agree that unauthorized aliens shall not be employed nor utilized in the performance of the requirements of this solicitation or any work authorized thereunder. The SRIA shall consider the employment or utilization of unauthorized aliens a violation of Section 274A(e) of the Immigration and Naturalization Act (8 U.S.C. 1324a). Such violation shall be cause for unilateral termination of this Agreement by the SRIA.

T. Employment Eligibility Verification (E-Verify)

1. The selected Respondent must use E-Verify to initiate verification of employment eligibility for all persons employed during the term of the Agreement to be entered into to perform employment duties within Florida within three (3) business days after the date of hire.
2. The selected Respondent must initiate verification of each person (including subcontractors) assigned to perform work pursuant to the Agreement within sixty (60) calendar days after the date of execution of this contract or within thirty (30) days after assignment to perform work pursuant to the Agreement, whichever is later.
3. The selected Respondent further agrees to maintain records of its participation and compliance with the provisions of the E-Verify program, including participation by its subcontractors as provided above, and to make such records available to the SRIA.
4. Compliance with the terms of this Employment Eligibility Verification provision will be an express condition of the contract between the selected Respondent and failure to comply may be treated as a material breach of the contract.

U. Award of RFP

Award of a contract to perform the services will be made as soon as possible to the Respondent who scores the highest in the evaluation process, unless otherwise stated elsewhere in this document. The SRIA reserves the right to waive any informality in responses and to award a response in whole or in part when either or both conditions are in the best interest of SRIA.

Should concerns or discrepancies arise during the solicitation process, Respondents are encouraged to contact the SRIA Executive Director prior to the scheduled response opening. Such matters will be addressed and/or remedied prior to the response opening or award whenever practically possible. Respondents are not to contact other SRIA staff or SRIA Board members regarding any concern or complaint.

V. Errors and Omissions

The SRIA and its representatives shall not be responsible for any errors or omissions in the RFP. Due care and diligence have been exercised in the preparation of this RFP, and all information contained herein is believed to be substantially correct. Information is subject to review by the successful respondent.

X. Acceptance of SRIA Terms

SRIA objects to and shall not consider any additional terms or conditions submitted by a respondent, including any appearing in documents attached as part of a respondent's response. In submitting its response, a respondent agrees that any additional terms or conditions, whether submitted intentionally or inadvertently, shall have no force or effect. Failure to comply with terms and conditions, including those specifying information that must be submitted with a response, shall be grounds for rejecting a response or placing a respondent in default.

Y. Services

No amount of services sought through this RFP is guaranteed nor is the SRIA under an obligation to utilize the services of the selected Respondent in those instances where the services to be performed can be done by SRIA personnel or under separate contract.

SRIA reserves the right to negotiate with the successful Respondent for any related products or services not specifically stated in this solicitation.

III. SCOPE OF SERVICES

All services must be performed in accordance with applicable Federal, State and Local regulations. The anticipated renovation scope of services will include, but is not limited to, the following:

Selective demolition of walls and finishes in the specified work areas (lobby, meeting room, and public restrooms)

- Flooring, acoustic ceilings tiles and ceiling grid in restrooms (existing ceiling grid to remain in lobby and meeting room), casework and countertops, lighting fixtures, restroom exhaust fans, HVAC grilles and registers (duct work to be reused), plumbing fixtures
- Partial removal of wall between lobby and restrooms

Lobby

- New flooring, acoustical ceiling tiles, lighting, service counter and display millwork, HVAC grilles and registers, and paint
- New load bearing wall and beam between lobby and restrooms

Meeting Room

- New flooring, acoustical ceiling tiles, lighting, AV (by AV contractor), dais and other millwork, select doors and hardware, HVAC grilles and registers, paint, and window blinds

Restrooms

- New ADA and non-ADA single user toilet rooms with new flooring, fixtures, finishes, and accessories
- New Janitor and Storage closets

An AV contractor has been contracted under a separate agreement to install a new AV system that will include new receivers, amplifiers, speakers, and recording equipment. The AV contractor will install and commission the new AV system. The AV work is not in contract, but the selected construction firm must coordinate the AV installation with the AV contractor during the construction process to ensure successful completion of the renovation project.

A complete set of construction documents and specifications for the above are in Exhibits A and B.

IV. SELECTION PROCESS

A. Proposal Review Committee

The SRIA will establish a Proposal Review Committee to be appointed by the SRIA Executive Director to review and score proposals. The Committee will be comprised of three to five members and is responsible for reviewing, evaluating, and ranking all responses received on time and preparing a recommendation for consideration by the SRIA Board. Firms will be evaluated on the basis of the submittal of information described herein.

Meetings of the Proposal Review Committee subsequent to the opening of the solicitation, if any, shall be public meetings except for any portion of a meeting at which a negotiation with a vendor is conducted pursuant to a competitive solicitation, at which a vendor makes an oral presentation as a part of the competitive solicitation, or at which a vendor answers questions as a part of a competitive solicitation. Also, any portion of a meeting at which negotiation strategies are discussed are exempt from being a public session.

Notice of all meetings shall be posted on the SRIA and Escambia County websites at: <https://sria-fla.com/> and <https://myescambia.com/open-government/meetings> as well as the SRIA BidNet Direct portal <https://www.bidnetdirect.com/florida/santarosaislandauthority> no less than 48 hours (excluding weekends and holidays).

Scoring and Committee Recommendation

The scoring of proposals is based upon the points given in the Scoring Sheet utilizing the Evaluation Criteria listed below in Section V of this RFP. The scores will be provided by the Executive Director for Local preference and M/WBE Evaluation Criteria. The response receiving the highest, cumulative score of all committee members will be forward to the SRIA Board for consideration and bid award.

SRIA Board Selection, Notice, and Right to Protest

The SRIA Board will consider the Committee's recommendation and make the final determination regarding bid award. The SRIA reserves the right to waive any informality in responses, reject all responses, and to make its selections that are in the best interest of SRIA.

Notice of the bid award will be posted on the SRIA BidNet Direct portal at <https://www.bidnetdirect.com/florida/santarosaislandauthority>. Any Respondent who desires to protest the selections shall follow the procedures set forth in section 46-101 of the Escambia County Code of Ordinances. The SRIA Executive Director shall fill the role of the SRIA purchasing manager under those procedures and notices thereunder shall be made in writing to the SRIA Executive Director, 1 Via De Luna, Pensacola Beach, FL 32561 or at mike_burns@sria-fla.com.

V. EVALUATION CRITERIA

The selection of a Respondent shall be based on the proposal most advantageous to the Santa Rosa Island Authority based on the "best value to the SRIA". Rating for each criteria may range from zero (lowest rating) to the maximum rating points for that criteria using the following criteria:

No.	Evaluation Criteria	Scoring Method
Tab 1.	Executive Summary	0-5 Points
Tab 2.	Ability and Experience	0-25 Points
Tab 3.	Effect of Firm's Current and Projected Workload/Timely Completion of Projects	0-10 Points
Tab 4.	Local Preference as defined in Section II (R) of this RFP A maximum of 5 points awarded for this criterion: <ul style="list-style-type: none"> • 5 points for business with a home office in Escambia or Santa Rosa County, or • 3 points for businesses with a local office in Escambia or Santa Rosa County, or • 0 points for businesses with no local presence 	0-5 Points
Tab 5.	Certified Minority/Women Business Enterprise Utilization A maximum of 5 points awarded for this criterion: <ul style="list-style-type: none"> • 5 Points - If the Respondent is a minority or woman-owned business then 5 points will be allocated. Documentation of the certified M/WBE status as defined by the Florida Small Minority Business Act is required to receive the maximum points. The SRIA will recognize the following to meet the requirement of a certified M/WBE status: <ul style="list-style-type: none"> ○ Valid M/WBE Certification from one of the following: <ul style="list-style-type: none"> - Escambia or Santa Rosa County - The State of Florida Office of Supplier Diversity - Women Business Enterprise Nation Council - U.S. Small Business Administration • 2 Points – If the Respondent identifies a sub-contractor that has certified M/WBE status as documented through the same options as identified above. Additionally, said sub-contractor <ul style="list-style-type: none"> • must have been identified under the Professional Personnel and Resources response (#2). • 0 Points – If neither of the above apply 	0-5 Points
Tab 6.	Interactions with Regulatory Agency Staff	0-15 Points
Tab 7.	Survey of Past Performance A maximum of 10 points awarded for this section. Provide reference surveys from past clients for the projects identified under Tab 2. The Executive Director (or designee) will take the average of all surveys and score as follows: <ul style="list-style-type: none"> - 10 points for an average score between 9-10 - 8 points for an average score between 7-8 - 6 points for an average score between 5-6 - 4 points for an average score between 3-4 - 2 points for an average score between 1-2 	0-15 Points
Tab 8.	Cost Proposal	0-20 Points
	Maximum Possible Score	100 Points

VI. INSURANCE REQUIREMENTS

A. Overview

Respondents' attention is directed to the insurance requirements below. Respondents should confer with their respective insurance carriers or brokers to determine in advance of response submission the availability of insurance certificates and endorsements as prescribed and provided herein. If an apparent qualified respondent fails to comply strictly with the insurance requirements, that respondent may be disqualified from award of the contract.

The selected Respondent shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the selected Respondent, his agents, representatives, employees, or subcontractors. The selected Respondent shall include such insurance costs as part of the negotiated rates.

B. General, Automobile, and Workers' Insurance

The selected Respondent shall be required to maintain limits no less than:

General Liability: \$1,000,000 combined single limit per occurrence for bodily injury, personal injury, and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.

Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage. (Non-owned, Hired Car).

Workers' Compensation and Employers Liability: Insurance covering all employees meeting Statutory Limits in compliance with the applicable state and federal laws and Employer's Liability with a limit of \$500,000 per accident, \$500,000 disease policy limit, \$500,000 disease each employee. Waiver of Subrogation in lieu of Additional Insured is required.

C. Additional Required Insurance

Professional Liability Insurance, including errors and omissions: for all services provided under the terms of this agreement with minimum limits of \$1,000,000.00 per occurrence; or claims made with "tail coverage" extending four (4) years beyond the term of the agreement. Proof of "tail coverage" must be submitted with the invoice for final payment. In lieu of "tail coverage", the selected Respondent may submit annually to the SRIA a current Certificate of Insurance proving claims made insurance remains in force throughout the same four (4)-year period.

D. Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the SRIA. At the option of the SRIA, either: (1) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the SRIA, its officers, officials, employees, and volunteers; or (2) the selected Respondent shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

E. Other Insurance Provisions

The policies are to contain, or be endorsed to contain, the following provisions:

General Liability and Automobile Liability Coverages (SRIA is to be named as Additional Insured).

1. The SRIA, its officers, officials, employees, and volunteers are to be covered as insureds as respects; liability arising out of activities performed by or on behalf of the selected Respondent, including the insured's general supervision of the selected Respondent; products and completed operations of the selected Respondent; premises owned, occupied or used by the selected Respondent; or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protections afforded the SRIA, its officers, officials, employees, or volunteers.
2. The selected Respondent's insurance coverage shall be primary insurance in respect to the SRIA, its officers, officials, employees, and volunteers. Any insurance of self-insurance maintained by the SRIA, its officers, officials, employees, or volunteers shall be excess of the selected Respondent's insurance and shall not contribute with it.
3. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the county, its officers, officials, employees or volunteers.
4. The selected Respondent's insurance shall apply separately to each insured against whom claims are made or suit is brought, except with respect to the limits of the insurer's liability.

All Coverages

Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after written notice has been given to the SRIA.

F. Verification of Coverage

The selected Respondent shall be required to furnish the SRIA with certificates of insurance and with original endorsements affecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The SRIA reserves the right to require complete, certified copies of all required insurance policies at any time. Certificates of Insurance acceptable to the SRIA shall be filed with the SRIA prior to the commencement of the work. These policies described above, and any certificates shall specifically name the SRIA as an additional insured and shall contain a provision that coverage afforded under the policies will not be canceled until at least thirty (30) days prior after written notice has been given to the SRIA.

Cancellation clauses for each policy should read as follows: *Should any of the above-described policies be canceled before the expiration date thereof, the issuing company will mail a thirty (30) days written notice to the Certificate Holder named herein.*

VII. TERMS AND CONDITIONS

A. Indemnification

The selected Respondent shall indemnify and hold harmless the SRIA, its officials, officers, and employees from and against all liabilities, damages, losses, and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by negligence, recklessness, or intentionally wrongful conduct of the selected Respondent and other persons employed or utilized by them in the performance of the work.

The SRIA may, at its sole option, defend itself or require the selected Respondent to provide the defense. The selected Respondent acknowledges that the sum of ten dollars (\$10.00) of the amount paid to the selected Respondent constitutes sufficient consideration for the selected Respondent's indemnification of the SRIA, its officials, officers, and employees.

The selected Respondent shall be liable to the SRIA for any reasonable costs incurred by it to correct, modify, or redesign any portion of the project, which is the subject of the services provided under this Agreement, that is found to be defective or not in accordance with this Agreement, as a result, and to the extent caused by the negligence, recklessness, or intentional wrongful conduct on the part of the selected Respondent and other persons employed or utilized by the selected Respondent in the performance of this Agreement.

B. Equal Opportunity/Affirmative Action Requirements

The selected Respondent and all subcontractors shall agree to a commitment to the principles and practices of equal opportunity in employment and to comply with the letter and spirit of federal, state, and local laws and regulations prohibiting discrimination based on race, color, religion, national region, sex, age, handicap, marital status, and political affiliation or belief.

For federally funded projects, in addition to the above, the selected Respondent shall agree to comply with Executive Order 11246, as amended, and to comply with specific affirmative action obligations contained therein.

C. Travel Expenses

Selected Respondent travel is not covered within the scope of the selected Respondent's contract.

G. Penalties

RESPONSES MAY BE REJECTED AND/OR RESPONDENTS DISQUALIFIED FOR THE FOLLOWING REASONS:

1. Failure to perform according to contract provisions
2. Conviction in a court of law of any criminal offense in connection with the conduct of business
3. Clear and convincing evidence of a violation of any federal or state anti-trust law based on the submission of bids or proposals, or the awarding of contracts
4. Clear and convincing evidence that the Respondent has attempted to give a SRIA Board member or staff a gratuity of any kind for the purpose of influencing a recommendation or decision in

connection with any part of the Board's purchasing activity.

5. Other reasons deemed appropriate by the SRIA Board.

H. Agreement

The agreement/contract specifying the terms and conditions resulting from the award of this solicitation will incorporate the Respondent's full proposal and will be based on the cost proposal as submitted.

The performance of SRIA of any of its obligations under the agreement shall be subject to and contingent upon the availability of funds lawfully expendable for the purposes of the agreement for the current and any future periods provided for within the solicitation.

I. Purchases By Other Public Agencies

With the consent and agreement of the successful Respondent, contracts may be made under this solicitation by other governmental agencies or political subdivisions within the State of Florida. Such agreements shall be governed by the same pricing, terms, and conditions stated herein with no deviations allowed. This agreement in no way restricts or interferes with the right of any public agency or political subdivision to bid any or all of the items or services independently.

J. Drug-Free Workplace Requirements

All vendors in accordance with Florida Statute 287.087 must certify the following actions:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under response/bid a copy of the statement specified in subsection (A).
4. In the statement specified in subsection (A), notify the employees that, as a condition of working on the commodities or contractual services that are under response/bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 (Florida Statutes) or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on or require satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community or any employee who is so convicted.
6. Make a good-faith effort to continue to maintain a drug-free workplace through implementation of this section. Vendor must confirm compliance with this requirement in the Required Submittals

section of the response. *Required submittal Drug-Free Workplace Certification (Attachment 2).

VIII. ETHICAL BUSINESS PRACTICES

K. Gratuities

It shall be unethical for any person to offer, give, or agree to give any SRIA Board member or staff, or for any SRIA Board member or staff to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or performing in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, subcontract, or to any solicitation or proposal therefor.

L. Kickbacks

It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the selected Respondent or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

M. Board Action

The SRIA Board reserves the right to deny award or immediately suspend any contract resulting from this proposal pending final determination of charges of unethical business practices. At its sole discretion, the SRIA Board may deny award or cancel the contract if it determines that unethical business practices were involved.

IX. REQUIRED FORMS AND SUBMITTALS

A. Submission Checklist

B. Response Cover Sheet with Signature (Form provided in Attachment 2)

C. Client References Surveys (Form provided in Attachment 1; INCLUDE UNDER TAB 7)

D. Cost Proposal (Form provided in Attachment 2; INCLUDE UNDER TAB 8)

E. Transactions and Conveyances Corporate Identification (Form provided in Attachment 2; INCLUDE UNDER TAB 1)

F. Certification Regarding Scrutinized Companies (Form provided in Attachment 2; INCLUDE UNDER TAB 1)

G. Drug-Free Workplace (Form provided in Attachment 2; INCLUDE UNDER TAB 1)

H. Non-Collusion Affidavit (Form provided in Attachment 2; INCLUDE UNDER TAB 1)

I. Public Entity Crimes Form (Form provided in Attachment 2; INCLUDE UNDER TAB 1)

J. Certification Regarding E-Verify (Form provided in Attachment 2; INCLUDE UNDER TAB 1)

K. Conflict/Non-Conflict of Interest Statement (Form provided in Attachment 2; INCLUDE UNDER TAB 1)

Submission Checklist

- Proposal uploaded to BidNet and one hard copy delivered to SRIA Office by January 26, 2026, at 2:00 pm (central time)
- Response Cover Sheet - Inserted as second page of Tab 1 (Form provided in Attachment 2)
- Client References Survey (3 References)– Inserted under Tab 7 (Form provided in Attachment 1)Cost Proposal – Inserted under Tab 8 (Form provided in Attachment 2)
- Submission Checklist – Inserted as first page of Tab 1 (Form provided in Attachment 2)
- Information sheet for Transactions and Conveyances Corporate Identification (Form provided in Attachment 2)
- Certification Regarding Scrutinized Companies (Form provided in Attachment 2)
- Drug-Free Workplace Certification (Form provided in Attachment 2)
- Non-Collusion Affidavit (Form provided in Attachment 2)
- Public Entity Crimes Form (Form provided in Attachment 2)
- Certification Regarding E-Verify (Form provided in Attachment 2)
- Conflict/Non-Conflict of Interest Statement (Form provided in Attachment 2)

All required documentation submitted must be updated with most current and complete information from date of bid opening) including notarizations where required. Failure to submit all the required forms may result in your submittal being deemed non-responsive. Attach this page as the first page of Tab 1 with documents in the order they appear in Section IV. of the RFP and on this form

Firm: _____

By: _____

(Print)

Signature: _____

Title: _____

Date: _____

ATTACHMENT 1

INSTRUCTIONS ON HOW TO PREPARE AND SEND CLIENT REFERENCE SURVEY FORMS

The objective of this process is to identify the past performance of the Respondents submitting a proposal for the solicited RFP. This is accomplished by sending survey forms to current or past clients. The clients should return the survey forms directly to the Respondent. The Respondent is to include all surveys in their proposal.

SENDING THE SURVEYS

The Respondent shall send three (3) surveys to existing or previous municipal or public agency clients/customers for the purpose of providing references. The survey can be found on the next page.

The Respondent is responsible for verifying that its information is accurate prior to submission as part of the response.

The current or past client/customer shall evaluate the Respondent and complete the survey.

The Respondent cannot have multiple people evaluating the same client/customer account.

The Respondent shall complete the following information for each client/customer that a survey will be sent:

- **Client/Customer Name:** Name of municipality or public agency that retains the financial services (e.g. Beach School District; City of New Beach)
- **Contact Full Name:** The first and last name of the person who will answer and complete the survey form regarding the Respondent
- **Contact Phone Number:** Phone number of the reference (including area code)
- **Email Address:** Current email address for the reference
-

The Respondent is responsible for ensuring all surveys are completed correctly and included in their proposal under Tab 7.

The SRIA (or designee) may contact the reference for additional information or to clarify survey data. If the reference cannot be contacted, no credit will be given for that reference.

Client Reference Survey

To: _____ (Name of Person completing survey)

_____ (Name of Client Company/Firm)

Phone Number: _____ Email: _____

Total Annual Budget of Entity _____

Subject: Past Performance Survey of Similar work:

Project name: _____

Name of Firm being surveyed: _____ Cost

of Services: Original Cost: _____ Ending Cost: _____

Contract Start Date: _____ Contract End Date: _____

Rate each of the criteria on a scale of 1 to 10, with 10 representing that you were very satisfied (and would hire the Firm /individual again) and 1 representing that you were very unsatisfied (and would never hire the Firm /individual again). Please rate each of the criteria to the best of your knowledge. If you do not have sufficient knowledge of past performance in a particular area, leave it blank.

NO	CRITERIA	UNIT	SCORE
1	Ability to manage cost	(1-10)	
2	Ability to maintain project schedule (complete on-time/early)	(1-10)	
3	Quality of workmanship	(1-10)	
4	Professionalism and ability to manage	(1-10)	
5	Close out process	(1-10)	
6	Ability to communicate with Client's staff	(1-10)	
7	Ability to resolve issues promptly	(1-10)	
8	Ability to follow protocol	(1-10)	
9	Ability to maintain proper documentation	(1-10)	
10	Overall Client satisfaction and comfort level in hiring	(1-10)	
11	Ability to offer solid recommendations	(1-10)	
12	Ability to facilitate consensus and commitment to the plan of action among staff	(1-10)	

Printed Name of Evaluator _____

Signature of Evaluator: _____

Please fax or email the completed survey to: _____

RFP Title: Request for Proposals for SRIA Meeting Room and Lobby Renovations

Response Number – SRIA-2026-01

Opening Date: January 26,2026

Attachment 2: Required Forms and Submittals

- A. Submission Checklist
- B. Response Cover Sheet with Signature
- C. Cost Proposal
- D. Transactions and Conveyances Corporate Identification
- E. Certification Regarding Scrutinized Companies
- F. Drug-Free Workplace
- G. Non-Collusion Affidavit
- H. Public Entity Crimes Form
- I. Certification Regarding E-Verify
- J. Conflict/Non-Conflict of Interest Statement

(THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK.)

RESPONSE COVER SHEET

This page is to be completed and included as the cover sheet for your response to the Request for Proposals.

The Santa Rosa Island Authority reserves the right to accept or reject any and/or all responses in the best interest of the Authority and/or Pensacola Beach.

Mike Burns, Executive Director

Jeremy Johnson, Chairman
Santa Rosa Island Authority

This solicitation response is submitted by the below named firm/individual by the undersigned authorized representative.

	(Firm Name)
BY	_____
	(Authorized Representative)

	(Printed or Typed Name)
ADDRESS	_____

CITY, STATE, ZIP	_____
E-MAIL ADDRESS	_____
TELEPHONE	_____
FAX	_____

ADDENDA ACKNOWLEDGMENTS: (IF APPLICABLE)

Addendum #1 dated _____	Initials _____
Addendum #2 dated _____	Initials _____
Addendum #3 dated _____	Initials _____
Addendum #4 dated _____	Initials _____

RFP Title: Request for Proposals for SRIA Meeting Room and Lobby Renovations

Response Number SRIA-2026-01

Opening Date: January 26, 2026

COST PROPOSAL FORM

Complete the following proposed cost of services information and return it with your package. This information will be used for comparative purposes only and will not be the sole determinant for award.

Description	Regular/hour	Overtime/hour
Supervisor/Foreman	\$ /hr	\$ /hr
Specialist <i>Journeyman Carpenter</i>	\$ /hr	\$ /hr
Laborer <i>Carpenter Apprentice/Helper</i>	\$ /hr	\$ /hr
Specialist <i>Roofer</i>	\$ /hr	\$ /hr
Laborer <i>Roofer Helper</i>	\$ /hr	\$ /hr
Specialist <i>Licensed Plumber</i>	\$ /hr	\$ /hr
Laborer <i>Plumber Apprentice/Helper</i>	\$ /hr	\$ /hr
Specialist <i>HVAC</i>	\$ /hr	\$ /hr
Laborer <i>HVAC Apprentice/Helper</i>	\$ /hr	\$ /hr
Specialist <i>Painter</i>	\$ /hr	\$ /hr
Laborer <i>Painter Helper</i>	\$ /hr	\$ /hr
Specialist <i>Journeyman Electrician</i>	\$ /hr	\$ /hr
Laborer <i>Electrician Apprentice/Helper</i>	\$ /hr	\$ /hr
Specialist <i>Mason</i>	\$ /hr	\$ /hr
Laborer <i>Mason Helper</i>	\$ /hr	\$ /hr
Specialist <i>Flooring Installer</i>	\$ /hr	\$ /hr
Laborer <i>Flooring Installer Helper</i>	\$ /hr	\$ /hr
Specialist <i>Utility/Underground Worker</i>	\$ /hr	\$ /hr
Laborer <i>Utility/Underground Helper</i>	\$ /hr	\$ /hr
Pre-Construction Services (work under \$20,000)	\$	/hr
Material and Equipment Mark-up \$0-\$35,000 (not to exceed 15%)	%	

Material and Equipment Mark-up \$35,000.01 up to \$300,000 (not to exceed 5%)	%
Sub-Contractor/Consultant Mark-up \$0-\$35,000 (not to exceed 15%)	%
Sub-Contractor/Consultant Mark-up \$35,000.01 up to \$300,000 (not to exceed 5%)	%

Additional Pricing

Please include any additional pricing for equipment, materials, or other services not listed above.

Notes:

- 1. No overtime rates will be paid without prior approval from the Contract Manager.
- 2. All monthly invoices shall reflect an itemized list consisting of work completed, location serviced, labor, in addition to receipts for materials used as backup for markup.
- 3. **Sub-Contractor/Consultant mark-up is intended for specialty services not provided by the General Contractor; for example, design services, environmental remediation, etc.**

IMPORTANT: This signed proposal form shall be considered an offer on the part of the proposer. Failure to sign this form is grounds for immediate disqualification. By signing this document, you are affirming that you have read and understood the terms, conditions, and information included within this solicitation. That all the information provided above is true and accurate. That the business associated with this solicitation has not been debarred, convicted of a public entity crime, and does not have a conflict of interest in any manner as described herein. That you have the proper authority to sign this document and the ability to bind this business entity to the terms and conditions herein.

Vendor Name:
Authorized Signature:
Print Name:
Title:

Information Sheet for Transactions and Conveyances Corporate Identification

The following information will be provided to the Santa Rosa Island Authority's Attorney for incorporation in legal documents. It is, therefore, vital that all information is accurate and complete. Please be certain that all spelling, capitalization, etc. is exactly as registered with the state or Federal government.

Is this a Florida Corporation: Yes or No

If not a Florida Corporation:

In what state was it created: _____

Name as spelled in that state: _____

What kind of Corporation is it: "For Profit" or "Not for Profit"

Is it in good standing: Yes or No

Authorized to transact business in Florida: Yes or No

State of Florida Department of State Certificate of Authority Document Number: _____

Does it use a registered fictitious name: Yes or No

Names of Officers:

President: _____ Secretary: _____

Vice President: _____ Treasurer: _____

Director: _____ Director: _____

Other: _____ Other: _____

Name of Corporation (As Used in Florida):

(Spelled Exactly as it is Registered with the State or Federal Government)

Corporate Address:

Please provide both the Post Office Box and street address for mail and/or express delivery; also, for recorded instruments involving land.

Post Office Box: _____

City, State, Zip: _____

Street Address: _____

City, State, Zip: _____

RFP Title: Request for Proposals for SRIA Meeting Room and Lobby Renovations

Response Number SRIA-2026-01- - -

Opening Date: January 26, 2026

Information sheet for Transactions and Conveyances Corporate Identification

Federal Employer Identification Number: _____

Contact Person for the Company: _____

Contact Email: _____ **Contact Phone:** _____

Upon Certification of Award, Contract shall be signed by the President or Vice President. Any other officer shall have permission to sign via a resolution approved by the Board of Directors on behalf of the company. Awarded Proposer shall submit a copy of the resolution together with the executed Contract to the Office of Purchasing.

Name of Individual Who Will Sign the Instrument on Behalf of the Company:

(Spelled exactly as it would appear on the instrument.)

Title of the Individual Named Above Who Will Sign on Behalf of the Company:

Verified By: _____ **Date:** _____

Certification Regarding Scrutinized Companies
[Contract amount less than \$1 Million]

Pursuant to §287.135, Florida Statutes, the undersigned Proposer hereby certifies the following:

Proposer is not on the *Scrutinized Companies that Boycott Israel List* created pursuant to §215.4725, Florida Statutes, and is not engaged in a *boycott of Israel* as defined in §215.4725, Florida Statutes.

Further, Proposer acknowledges that if the Proposer is found to have submitted a false certification or has been engaged in a *boycott of Israel* then the Authority reserves the right to immediately terminate the parties' agreement.

PROPOSER:

Business Name

By: _____
Signature

Name: _____
Print

Title: _____

Date: _____

* Effective July 1, 2018

DRUG-FREE WORKPLACE CERTIFICATION

Preference shall be given to businesses with drug-free workplace programs. Whenever two or more responses or bids which are equal with respect to qualifications, price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid/response received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process.

The undersigned firm, in accordance with Florida Statute 287.087, hereby certifies that

_____ does:
(Name of Business)

- 1) Publish a statement notifying employees that unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- 2) Inform employees about the dangers of drug abuse in the workplace, the business policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
- 3) Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
- 4) In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employees will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
- 5) Impose a sanction on, or require satisfactory participation in a drug assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
- 6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify the following: (Check one and sign in the space provided.)

_____ This firm complies fully with the above requirements.
_____ This firm does not fully comply with the above requirements.

Respondent's Signature

Title

Date

NON-COLLUSION AFFIDAVIT

The undersigned being duly sworn as provided by law, deposes, and says:

- 1. This Affidavit is made with the knowledge and intent that it is to be filed with the Santa Rosa Island Authority, Escambia County, Florida and that it will be relied upon by said County, in any consideration which may give to and any action it may take with respect to this Proposal.
- 2. The undersigned is authorized to make this Affidavit on behalf of,

(Name of Institution, Corporation, Partnership, Individual, etc.)

a _____, formed under the laws of _____
(Type of Business) (State or Province)

of which he/she is _____.
(Sole Owner, partner, president, etc.)

- 3. Neither the undersigned nor any other person, firm or corporation named in above Paragraph 2, nor anyone else to the knowledge of the undersigned, have themselves solicited or employed anyone else to solicit favorable action for this Proposal by the County, also that no head of any department or employee therein, or any officer of the Santa Rosa Island Authority, Escambia County, Florida is directly interested therein.
- 4. This Proposal is genuine and not collusive or a sham; the person, firm or corporation named above in Paragraph 2 has not colluded, conspired, connived or agreed directly or indirectly with any bidder or person, firm or corporation, to put in a sham Proposal, or that such other person, firm or corporation, shall refrain from bidding, and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference with any person, firm or corporation, to fix the prices of said proposal or proposals of any other bidder; and all statements contained in the proposal or proposals described above are true; and further, neither the undersigned, nor the person, firm or corporation named above in Paragraph 3, has directly or indirectly submitted said proposal or the contents thereof, or divulged information or data relative thereto, to any association or to any member or agent thereof.

AFFIANT’S NAME

AFFIANT’S TITLE

TAKEN, SWORN AND SUBSCRIBED TO BEFORE ME this _____ Day of _____, 20_____.

Personally Known _____ Or Produced Identification

Type of Identification

NOTARY PUBLIC
(Print, Type or Stamp Commissioned Name of Notary Public)

My Commission Expires: _____

Sworn Statement Under Section 287.133 (3) (a) Florida Statute on Public Entity Crimes

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid, Proposal or Contract for:

2. This sworn statement is submitted by, _____, whose business address is, _____, and (if applicable) Federal Employer Identification Number (FEIN) is _____ (if the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement).
3. My name is _____ and my relationship to the entity named above is _____ (title).
4. I understand that a "public entity crime" as defined in paragraph 287.133 (1) (g) Florida Statute, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States including, but not limited to , any bid or contract for goods or services to be provided to any public entity or any agency or public subdivision of any other state or of the United States and involved antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy or material misrepresentation.
5. I understand that "convicted" or "convicted" as defined in paragraph 287.133 (1) (b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime with or without an adjudication of guilt, in any federal or state trial court of records relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.
6. I understand that an "affiliate" as defined in Paragraph 287 .133 (1) (a), Florida Statutes, means:
 - a. A predecessor or successor of a person convicted of a public entity crime; or
 - b. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one of shares constituting a controlling income among persons when not for fair interest in another person, or a pooling of equipment or income among persons when not for fair market value under a length agreement, shall be a prima facie case that one person controls another person. A person who knowingly convicted of a public entity crime, in Florida during the preceding thirty-six (36) months shall be considered an affiliate.
7. I understand that a "person" as defined in paragraph 287 .133 (1) (e), Florida Statutes, means any natural person or entity organized under the laws of the state or of the United States with the legal power to enter into a binding contract provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.
8. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies)
☐ Neither the entity submitting this sworn statement, or any officers, directors, executive, partners,

RFP Title: Request for Proposals for SRIA Meeting Room and Lobby Renovations

Response Number SRIA-2026-01

Opening Date: January 26, 2026

shareholders, employees, member, or agents who are active in management of the entity, or affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

- ☐ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, And (please attach a copy of the final order)
- ☐ The person or affiliate was placed on the convicted firm list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in public interest to remove the person or affiliate from the convicted firm list. (Please attach a copy of the final order)
- ☐ The person or affiliate has not been placed on the convicted firm list. (Please describe any action taken by, or pending with, the department of General Services)

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM

Name

Signature

Date

PERSONALLY APPEARED BEFORE ME, the undersigned authority, who, after first being sworn by me, affixed his/her signature at the space provided above on this day of _____, 20____, and is personally known to me, or has provided _____ as identification.

STATE OF FLORIDA

COUNTY OF: _____

Notary Public My

Commission expires: _____

STATE OF FLORIDA COUNTY OF
ESCAMBIA

The foregoing instrument was acknowledged before me, by means of _____ physical presence or online notarization, this _____ day of _____, 20____, by _____, who (____) is personally known to me, or (____) has produced current _____ as identification.

Signature of Notary Public

Certification Regarding E-Verify

Pursuant to §448.095, Florida Statutes, the Proposer hereby certifies the following:

Proposer shall register with and utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of all new employees hired by Proposer during the term of this Agreement and shall expressly require any subcontractors performing work or providing services pursuant to this Agreement to likewise utilize the E-Verify System to verify the employment eligibility of all new employees hired by the subcontractor during the term of this Agreement. If Proposer enters into a contract with a subcontractor performing work or providing services on its behalf, Proposer shall also require the subcontractor to provide an affidavit stating that the subcontractor does not employ, contract with, or subcontract with an unauthorized alien. Failure to comply with these requirements shall be cause for immediate termination of the Agreement.

In the event performance of this Agreement is or will be funded using state or federal funds, the Proposer hereby further certifies compliance with the following:

Proposer shall register with and utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of individuals to work in the United States and 48 C.F.R. 52.222-54 is incorporated herein by reference. If applicable, in accordance with Subpart 22.18 of the Federal Acquisition Register, the Proposer must (1) enroll in the E-Verify Program, (2) use E-Verify to verify the employment eligibility of all new hires working in the United States, (3) use E-Verify to verify the employment eligibility of all employees assigned to perform work pursuant to the Agreement, and (4) include these requirements in any related subcontracts. Failure to comply with these requirements shall be cause for immediate termination of the Agreement.

PROPOSER:

Business Name

Signature

Name (Printed)

Title (Printed)

Date

CONFLICT/NON-CONFLICT OF INTEREST STATEMENT

CHECK ONE

☐ To the best of our knowledge, the undersigned firm has no potential conflict of interest due to any other clients, contracts, or property interest for this project.

OR

☐ The undersigned firm, by attachment to this form, submits information which may be a potential conflict of interest due to other clients, contracts, or property interest for this project.

LITIGATION STATEMENT

CHECK ONE

☐ The undersigned firm has had no litigation and/or judgments entered against it by any local, state, or federal entity and has had no litigation and/or judgments entered against such entities during the past ten (10) years.

☐ The undersigned firm, **BY ATTACHMENT TO THIS FORM**, submits a summary and disposition of individual cases of litigation and/or judgments entered by or against any local, state, or federal entity, by any state or federal court, during the past ten (10) years.

COMPANY NAME

AUTHORIZED SIGNATURE

NAME (PRINT OR TYPE)

TITLE

Failure to check the appropriate blocks above may result in disqualification of your proposal. Likewise, failure to provide documentation of a possible conflict of interest, or a summary of past litigation and/or judgments, may result in disqualification of your proposal.

RFP Title: Request for Proposals for SRIA Meeting Room and Lobby Renovations

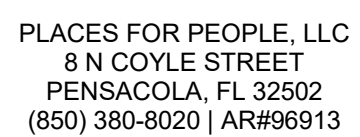
Response Number SRIA-2026-01

Opening Date: January 26, 2026

Exhibits:

- A. Construction Specifications- SRIA Meeting Room and Lobby Renovations
- B. Architectural Drawings

SANTA ROSA ISLAND AUTHORITY
1 VIA DE LUNA, PENSACOLA BEACH, FL 32561

[illegible]

PROJECT NUMBER	25009
DATE	21 NOVEMBER 2025
DRAWN BY	PMH
CHECKED BY	Checker
SCALE	As indicated

G-001

SRIA RENOVATION

TITLE SHEET + SITE PLAN

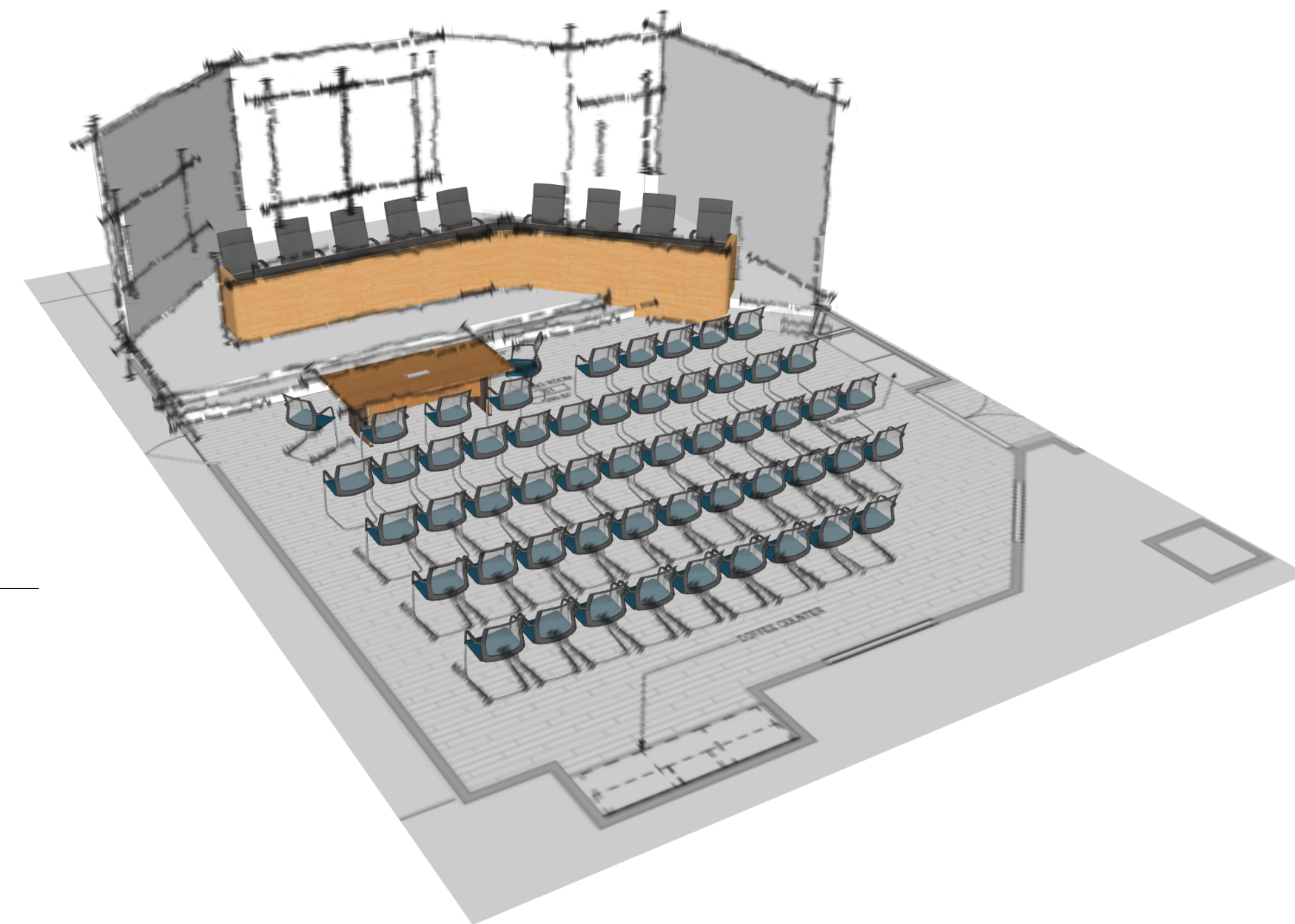
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GENERAL NOTES	
	<p>THE PLAN SET, COMBINED WITH THE BUILDING CONTRACT, PROVIDES BUILDING DETAILS FOR THE COMMERCIAL ALTERATION. THE CONTRACTOR SHALL VERIFY THAT SITE CONDITIONS ARE CONSISTENT WITH THESE PLANS BEFORE STARTING WORK. WORK NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED TO THE SAME QUALITY AS PLANNED WORK THAT IS DETAILED. THIS SHALL BE DONE IN ACCORDANCE WITH FLORIDA BUILDING CODES AND LOCAL CODES. CONTRACTOR SHALL BE RESPONSIBLE AND BEAR ANY FINES OR PENALTIES FOR CODE, ORDINANCE, REGULATIONS OR BUILDING PROCESS VIOLATIONS. INSURANCES SHALL BE IN FORCE THROUGHOUT THE DURATION OF THE BUILDING PROJECT.</p> <p>ALL TRADES SHALL MAINTAIN A CLEAN WORK SITE AT THE END OF EACH WORK DAY.</p> <p>PLEASE SEE ADDITIONAL NOTES CALLED OUT ON OTHER SHEETS.</p> <p><u>DIMENSIONS</u></p> <p>WRITTEN DIMENSIONS AND SPECIFIC NOTES SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND GENERAL NOTES. THE DESIGNER SHALL BE CONSULTED FOR CLARIFICATION IF SITE CONDITIONS ARE ENCOUNTERED THAT ARE DIFFERENT THAN SHOWN, IF DISCREPANCIES ARE FOUND IN THE PLANS OR NOTES, OR IF A QUESTION ARISES OVER THE INTENT OF THE PLANS OR NOTES. CONTRACTOR SHALL VERIFY AND IS RESPONSIBLE FOR ALL DIMENSIONS (INCLUDING ROUGH OPENINGS).</p>

DRAWING INDEX	
SHEET NO.	DESCRIPTION
GENERAL	
G-001	TITLE SHEET + SITE PLAN
G-002	INDEX TO DRAWINGS ABBREVIATIONS & SYMBOLS
ARCHITECTURAL	
A-1	DEMO & NEW PLANS
A-2	RCF & FINISH PLANS
A-4	MEP PLAN
A-5	INTERIOR ELEVATIONS
A-6	DAIS PLAN DETAIL
A-7	ADA COMPLIANCE - RESTROOMS
A-8	STRUCTURAL DETAILS
A-9	FINISHES / SELECTIONS
ELECTRICAL	
E-001	ELECTRICAL LEGEND
E-201	ELECTRICAL DEMOLITION PLANS
E-211	ELECTRICAL PLANS
E-511	EQUIPMENT SCHEDULES
E-611	PANEL SCHEDULES



4 DAIS VIEW



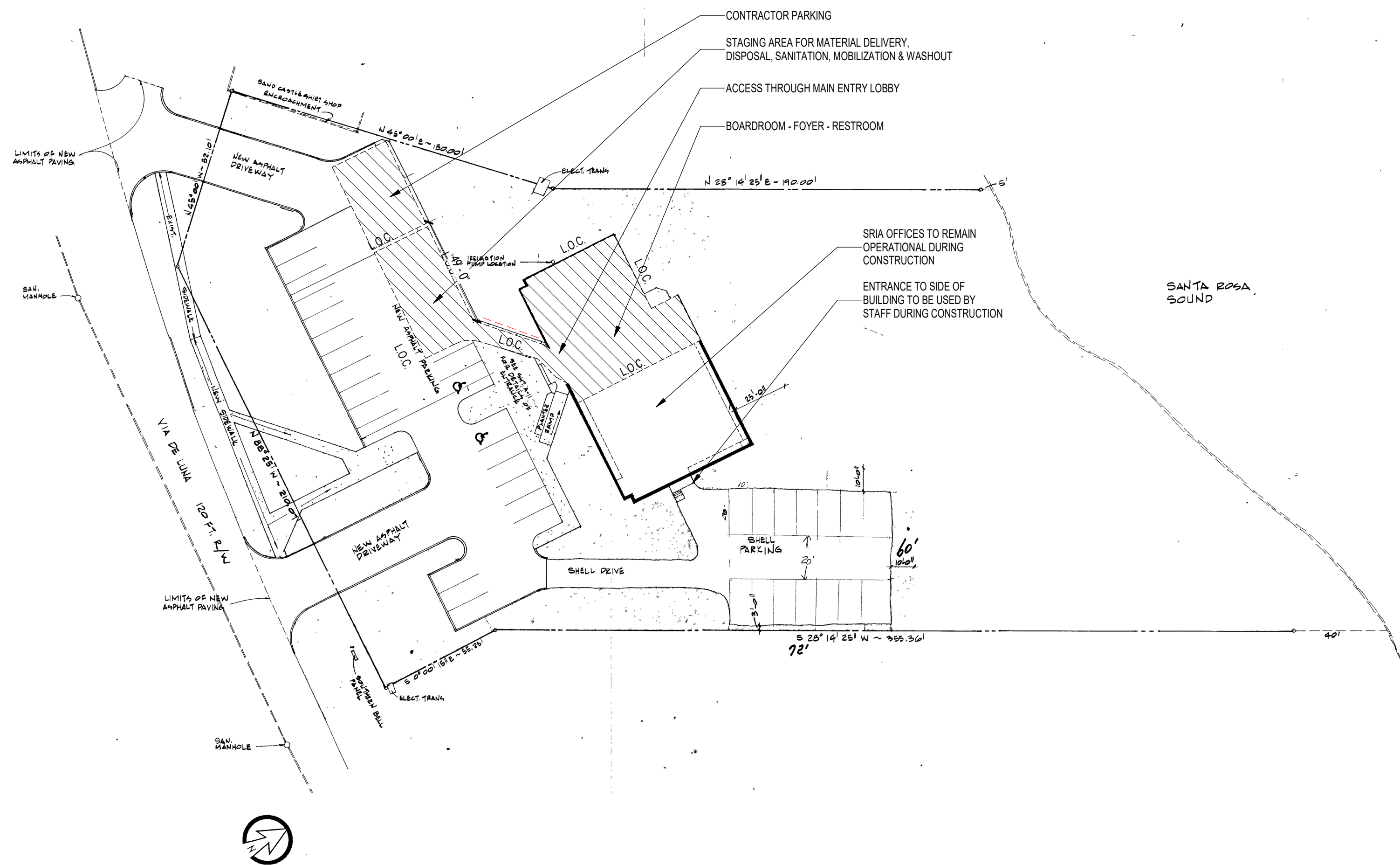
3 BOARD ROOM VIEW

SCALE: 1" = 1'-0"



2 VICINITY PLAN

SCALE: 1" = 1'-0"



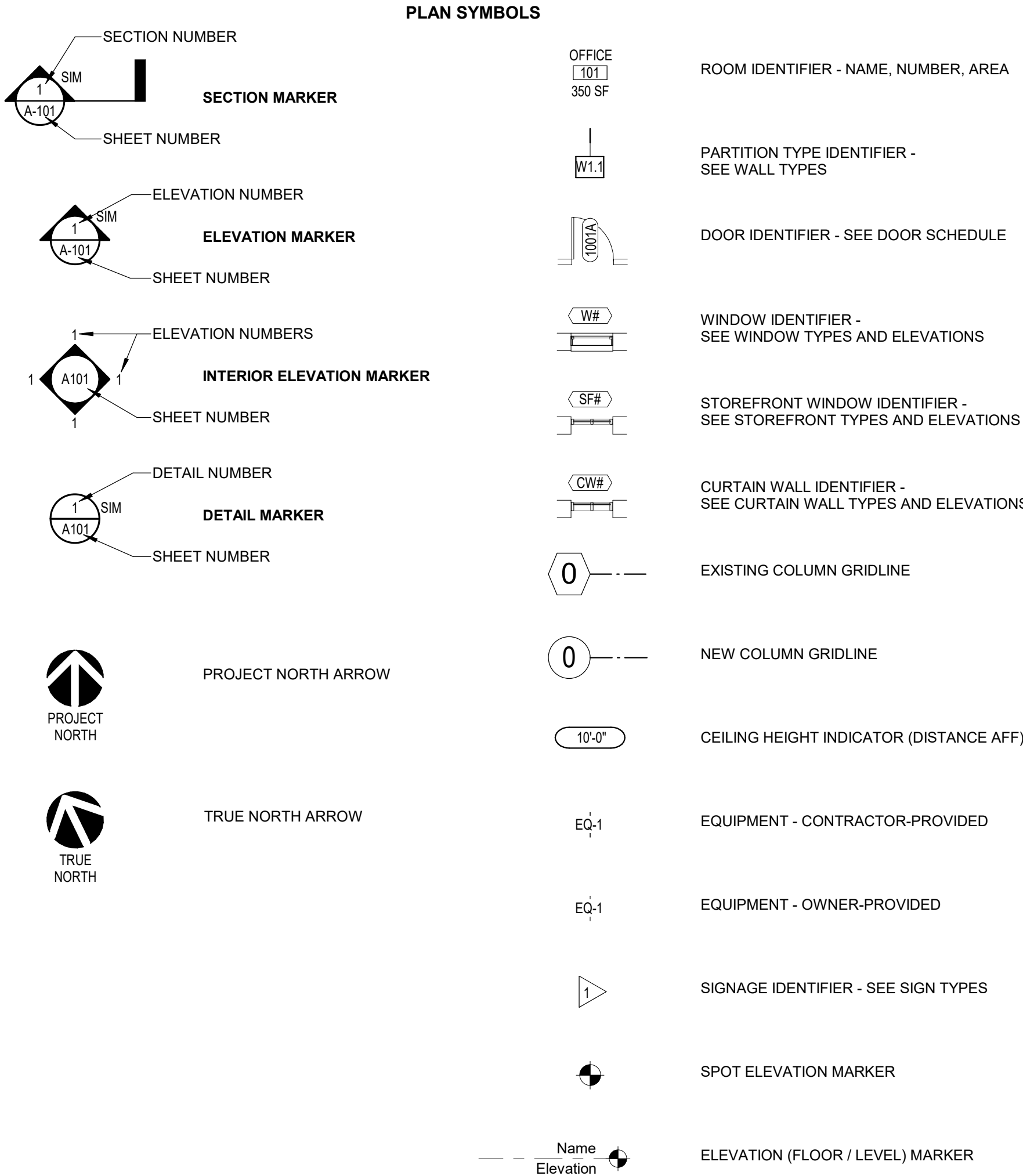
1 SITE PLAN

SCALE: 1" = 40'-0"

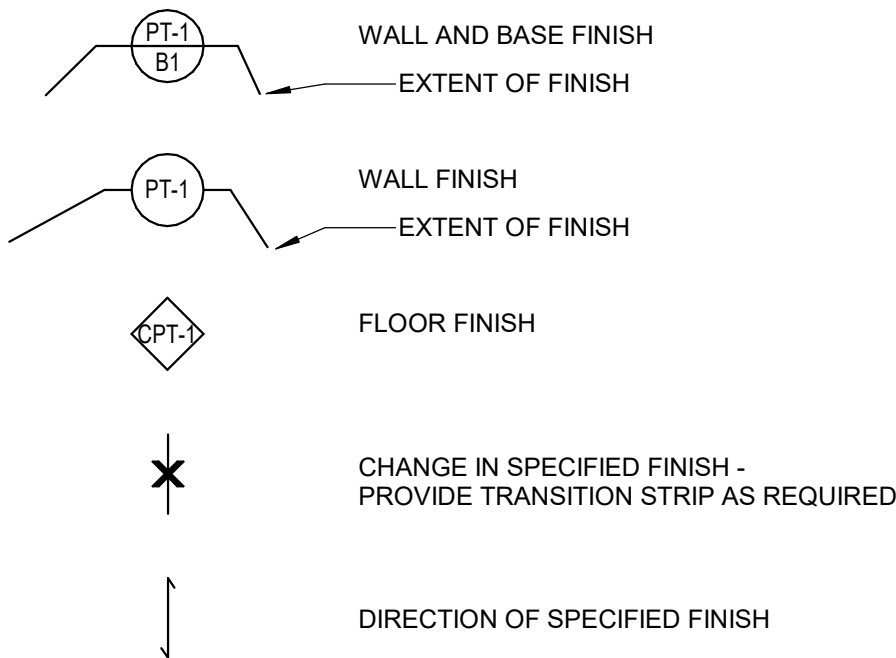
STANDARD ABBREVIATIONS

AC	AIR CONDITIONED	M	MOTOR
AD	AREA DRAIN	MAINT	MAINTENANCE
AFF	ABOVE FINISH FLOOR	MAX	MAXIMUM
AHU	AIR HANDLING UNIT	MECH	MECHANICAL
ALT	ALTERNATE	MEZZ	MEZZANINE
ALUM	ALUMINUM	MIN	MINIMUM
APPROX	APPROXIMATELY	MISC	MISCELLANEOUS
ARCH	ARCHITECTURAL	MO	MASONRY OPENING
BLDG	BUILDING	NA	NOT APPLICABLE
CL	CENTERLINE	NIC	NOT IN CONTRACT
CFOI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	NO	NUMBER
CFCI	CONTRACTOR FURNISHED OWNER INSTALLED	NRC	NOISE REDUCTION COEFFICIENT
CG	CORNER GUARD	NTS	NOT TO SCALE
CLO	CLOSET	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
CO	CLEANOUT	OCFI	OWNER FURNISHED CONTRACTOR INSTALLED
COL	COLUMN	OFOI	OWNER FURNISHED OWNER INSTALLED
CONT	CONTINUOUS	OPP	OPPOSITE (HAND)
CTR	CENTER	ORD	OVERFLOW ROOF DRAIN
DEPT	DEPARTMENT	OTS	OPEN TO STRUCTURE
DIA	DIAMETER	PLBG	PLUMBING
DIM	DIMENSION	PSI	POUNDS/SQUARE INCH
DN	DOWN	RCP	REFLECTED CEILING PLAN
DR	DOOR	RD	ROOF DRAIN
DS	DOWNSPOUT	RM	ROOM NAME
EA	EACH	RO	ROUGH OPENING
EIFS	EXT INSULATION FINISH SYSTEM	R VALUE	THERMAL RESISTANCE
EJ	EXPANSION JOINT	SCHED	SCHEDULE
ELEC	ELECTRIC(AL)	SD	STORM DRAIN
ELEV	ELEVATOR	SECT	SECTION
EQ	EQUIPMENT	SHT	SHEET
ETR	EXISTING TO REMAIN	SIM	SIMILAR
EXT	EXTERIOR	SPEC	SPECIFICATION(S)
EXIST	EXISTING	SQ FT	SQUARE FEET (FOOT)
FA	FIRE ALARM	STC	SOUND TRANSMISSION CLASS (COEFFICIENT)
FD	FLOOR DRAIN	STD	STANDARD
FE	FIRE EXTINGUISHER AND BRACKET	STL	STEEL
FEC	FIRE EXTINGUISHER AND CABINET	STOR	STORAGE
FLR	FLOOR	STRUC	STRUCTURAL
FT	FOOT, FEET	SW	SWITCH
FV	FIELD VERIFY	THRU	THROUGH
GALV	GALVANIZED	TLT	TOILET
GL	GLASS	TOC	TOP OF CONCRETE
HB	HOSE BIB	TOF	TOP OF FOOTING
HC	HOLLOW CORE	TYP	TYPICAL
HDCP	HANDICAP(PED)	UL	UNDERWRITER LABORATORIES
HMF	HOLLOW METAL FRAME	UNO	UNLESS NOTED OTHERWISE
HW	HARDWARE	VTR	VENT THROUGH ROOF
IN	INCHES	W/	WITH
INFO	INFORMATION	WC	WATER CLOSET
INT	INTERIOR	WD	WOOD
JAN	JANITOR	WH	WALL HYDRANT
JB	JUNCTION BOX	W/O	WITHOUT
JT	JOINT	XPS	EXTRUDED POLYSTYRENE BOARD
KB	KNOX BOX		
LAV	LAVATORY		
LTG	LIGHTING		

STANDARD SYMBOLS



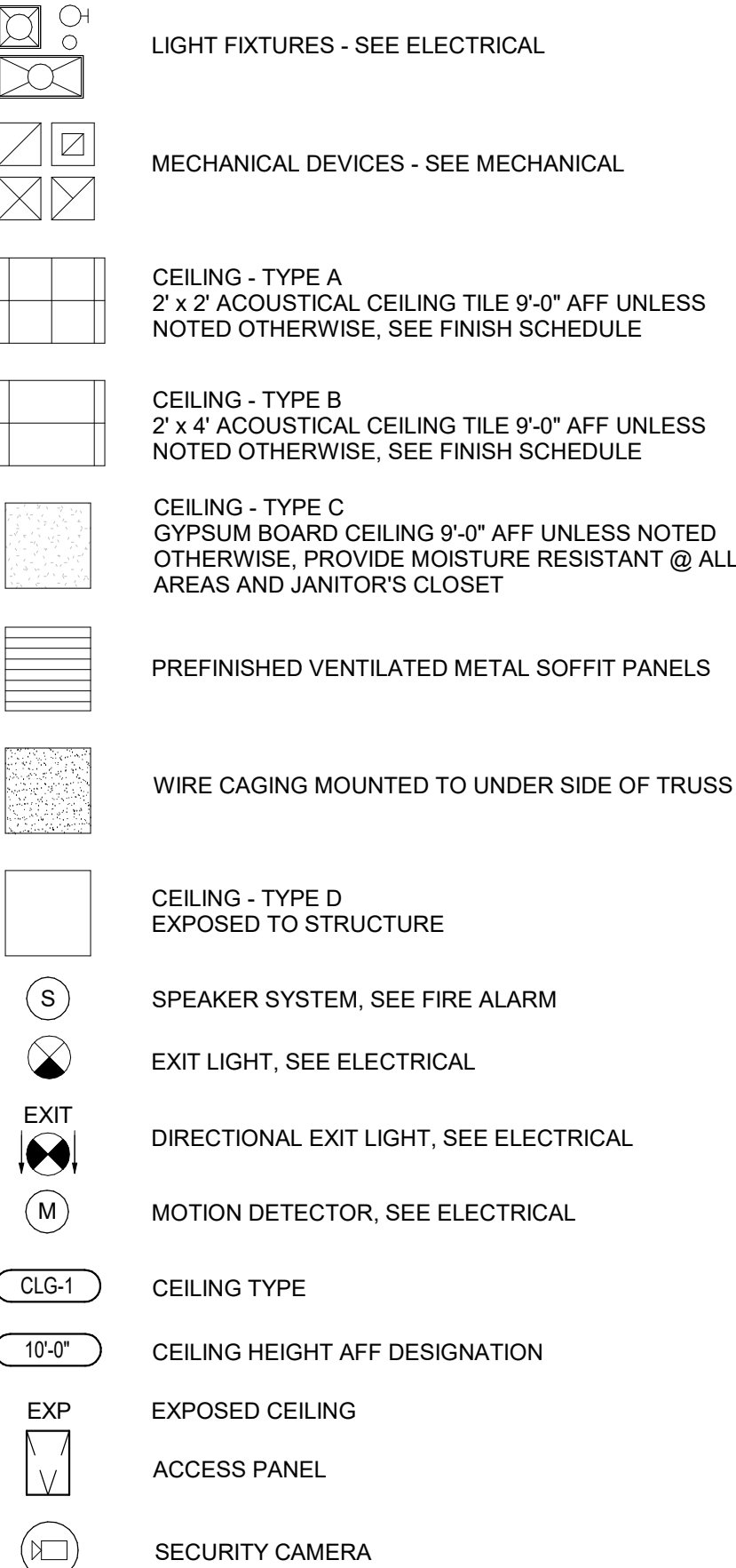
FINISH SYMBOLS



GENERAL NOTES REFLECTED CEILING

- CONTRACTORS SHALL COORDINATE ALL WORK, SHOWN OR UN-SHOWN, WITH ALL OTHER DISCIPLINES.
- CONTRACTOR SHALL PROVIDE REINFORCING [TYPE TBD] BEHIND ALL CEILING MOUNTED EQUIPMENT.
- REFER TO FINISH SCHEDULE(S) IN A-600 SERIES SHEETS FOR FINISHES AND ADDITIONAL INFORMATION.
- ALL ACCESS PANEL SIZES AND LOCATIONS TO BE COORDINATED WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE SPRINKLER WORK.
- CENTER ACT GRID AND LIGHTS WITHIN EACH ROOM. UNO.
- REFER TO ELECTRICAL FOR LIGHTING FIXTURE SCHEDULE(S).
- ALL FIRE SPRINKLER HEADS AND ELECTRICAL FIXTURES SHALL BE CENTERED WITHIN CEILING TILES. UNO.
- CEILING HEIGHTS NOTED REFERENCE ELEVATION ABOVE FINISH FLOOR OF ASSOCIATED BUILDING LEVEL.

RCP LEGEND



CODE ANALYSIS

PARCEL ID	282S261180006002
LEGAL DESCRIPTION	LT 6 BLK B PLAZA PRIMERA PB 5 P 79 SHEET 7
Zoning	
USE FLOOD	G/C-PB AE COUNTY OWNED
Occupancy Classification	
ASSEMBLY (Group A)	
Construction	
Type V-A Commercial	
Applicable Codes and Ordinances	
2023 Florida Building Code (FBC), 8th Edition 2023 FBC, Existing Building, 8th Edition 2023 FBC, Accessibility, 8th Edition 2023 FBC, Energy Conservation, 8th Edition 2023 FBC, Mechanical, 8th Edition 2023 FBC, Plumbing, 8th Edition 2023 FBC, Existing Building, 8th Edition 2020 Florida Electrical Code (NFPA 70, 2020) 2023 Florida Fire Prevention Code - Fire, 8th Edition (NFPA 1, 2021) 2023 Florida Fire Prevention Code - Life Safety, 8th Edition (NFPA 1, 2021)	
Occupancy and Occupant Load (FFPC Table 7.3.1.2)	
Meeting Room (1250 sf): Assembly Less Concentrated (1250 sf / 15 sf (net) = 87 occ Lobby (365 sf): Assembly Less Concentrated (365 sf / 15 sf (net) = 25 occ	
Number of Means of Egress (FFPC 13.2.4 and FBC 1006.2.1)	
2 exits (2 provided from Meeting Room)	
Common Path of Travel (FFPC 13.2.5.2 and FBC 1006.2.1)	
75 ft max.	
Dead End Corridor (FFPC 13.2.5.3 and FBC 1020.5)	
20 ft max (non-sprinklered)	
Travel Distance (FFPC 13.2.6.2 and FBC 1017.2)	
200 ft max (non-sprinklered)	
Means of Egress Width (FFPC 7.3.1 / 13.2.3.6.2 and FBC 1005.3.2)	
Meeting Room: 87 occ. x 0.3 in. per occ. = 26.1 in. (44 in. min.) Lobby Exit: 112 occ. 0.3 in. per occ. = 33.06 in. (44 in. min.)	
Exit Door Width (FFPC 7.3.3.1 / 13.2.3.6.2 and FBC 1005.3.2)	
Meeting Room (Primary): 87 occ. x 0.3 in. per occ. x 0.5 = 13.05 in. (existing 64 in. provided [32 in. min. per leaf])	
Meeting Room (Secondary): 87 occ. x 0.3 in. per occ. x 0.5 = 13.05 in. (existing 34 in. provided [32 in. min. per leaf])	
Lobby Exit: 112 occ. x 0.3 in. per occ. = 33.06 in. (existing 64 in./ provided [32 in. min. per leaf])	
Portable Fire Extinguishers (FFPC 13.6.1.2 and FBC 9.9)	
75 ft max (Class A) Ordinary Hazard (< 1500 sf): 2-A	

PERMIT DRAWINGS (21 NOVEMBER 2025)

SRIA RENOVATION

INDEX TO DRAWINGS
ABREVIATIONS & SYMBOLS

G-002



PLACES FOR PEOPLE, LLC
8 N COYLE STREET
PENSACOLA, FL 32502
(850) 380-8020 | AR#96913

Date						
Description						
No.						

PROJECT NUMBER
DATE
DRAWN BY
CHECKED BY

25009
21 NOVEMBER 2025
Author
Checker

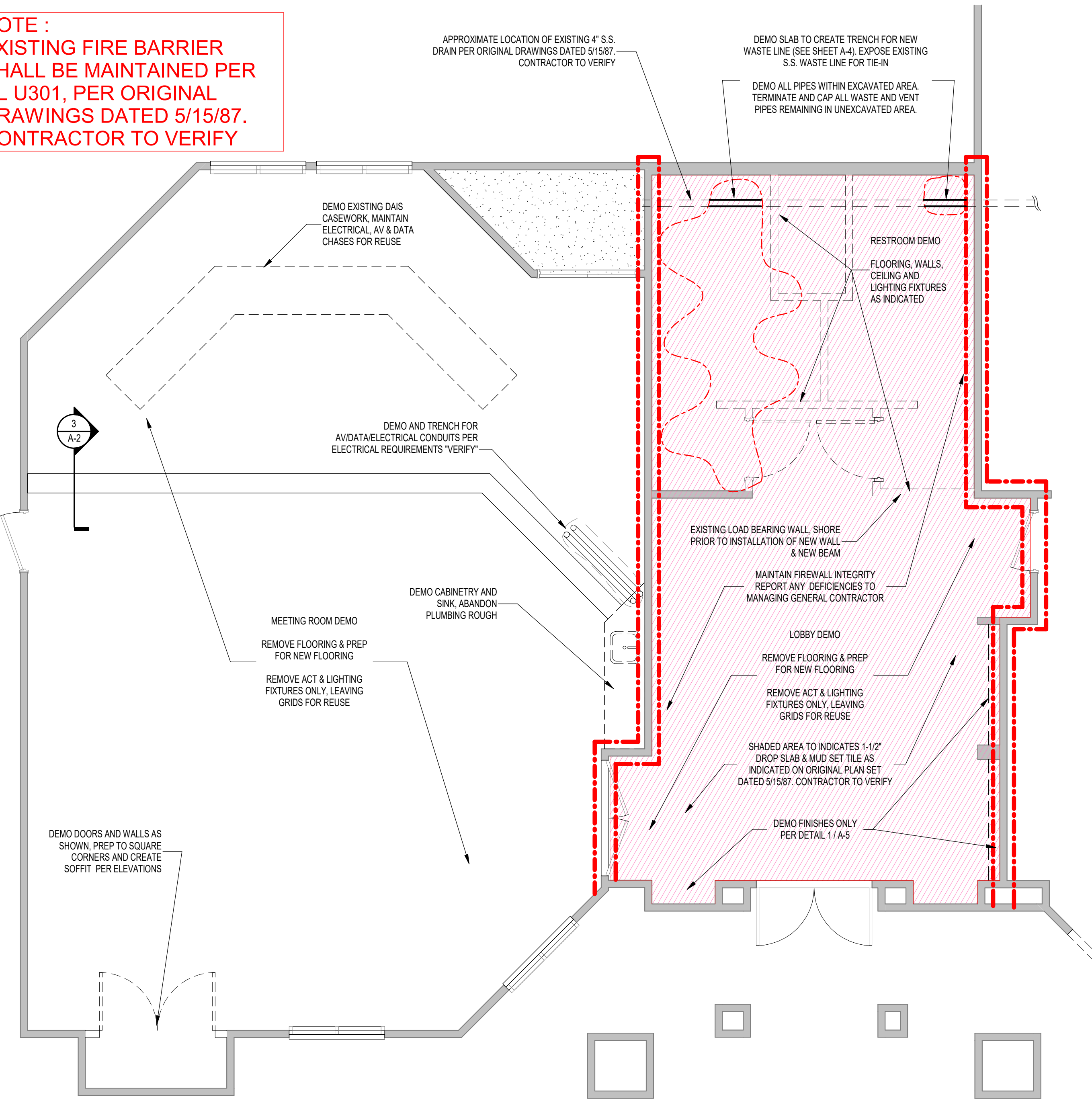
1/8" = 1'-0"

SCALE

GENERAL NOTES DEMOLITION PLAN

- ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING ANY DEMOLITION OR NEW CONSTRUCTION.
- PROTECT ANY AND ALL ITEMS WHICH ARE TO REMAIN OR TO BE ALTERED.
- THE DEMOLITION DRAWINGS ARE NOT ALL INCLUSIVE OF ALL ITEMS THAT MAY BE REMOVED IN THE COURSE OF THE PROJECT. THE A/E RESERVES THE RIGHT TO INCLUDE ADDITIONAL DEMOLITION NOTES DISCOVERED DURING CONSTRUCTION.

NOTE :
EXISTING FIRE BARRIER
SHALL BE MAINTAINED PER
UL U301, PER ORIGINAL
DRAWINGS DATED 5/15/87.
CONTRACTOR TO VERIFY



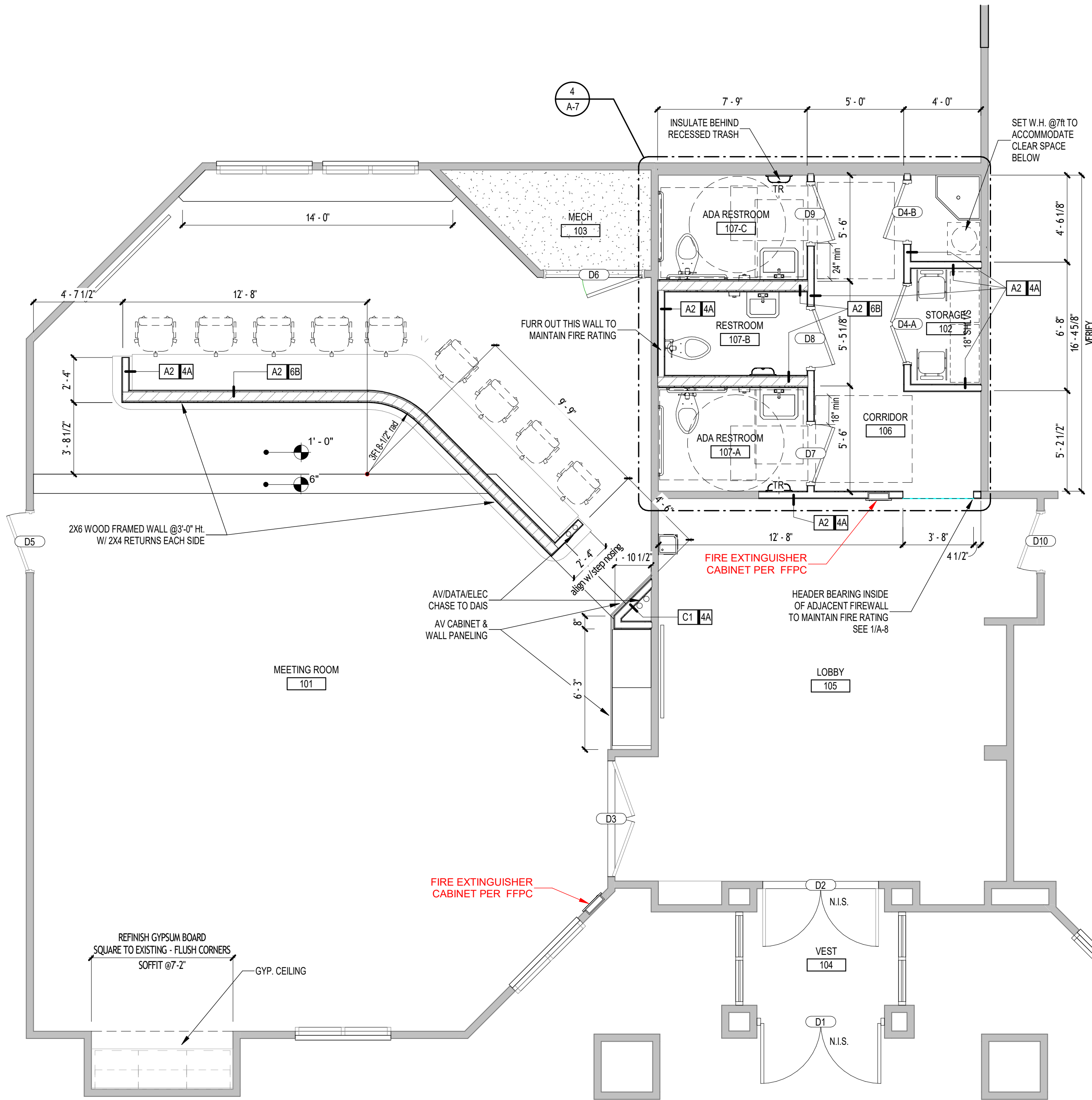
1 DEMO PLAN
SCALE: 1/4" = 1'-0"

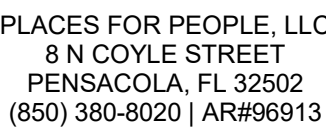


DOOR SCHEDULE

DOOR NO.	LOCATION	DOOR SIZE				DOOR TYPE	DOOR MATERIAL	FRAME MATERIAL	COMMENTS		FINISH	COMMENTS	HARDWARE SET
		SLABS	WIDTH	HEIGHT	THICKNESS				JAMB				
D1	VESTIBULE 104	2	6' - 0"	7' - 0"	1 3/4"		ALUM	NOT IN SCOPE			NOT IN SCOPE	NOT IN SCOPE	NOT IN SCOPE
D2	VESTIBULE 104	2	6' - 0"	7' - 0"	1 3/4"		ALUM	NOT IN SCOPE			NOT IN SCOPE	NOT IN SCOPE	NOT IN SCOPE
D3	MEETING ROOM 101	2	6' - 0"	7' - 0"	1 3/4"	NV	WOOD	REUSE EXISTING	PT EXIST	PT		90 MIN W/ ASTRAGAL	#1
D4-A	STORAGE 102	2	2' - 0"	7' - 0"	1 3/4"	FLUSH	WOOD	HM	4-7/8	STAIN			#2
D4-B	STORAGE 108	1	3' - 0"	7' - 0"	1 3/4"	FLUSH	WOOD	HM	4-7/8	STAIN			#2
D5	MEETING 101 - EGRESS	1	3' - 0"	7' - 0"	1 3/4"		PT EXIST	REUSE EXISTING	PT EXIST	PT			REUSE EXISTING
D6	MECHANICAL 103	2	5' - 0"	7' - 0"	1 3/4"	FLUSH	WOOD	REUSE EXISTING	PT EXIST	PT			#3
D7	ADA RR 107-A	1	3' - 0"	7' - 0"	1 3/4"	FLUSH	WOOD	HM	4-7/8	STAIN			#4
D8	RR 107-B	1	3' - 0"	7' - 0"	1 3/4"	FLUSH	WOOD	HM	4-7/8	STAIN			#4
D9	ADA RR 107-C	1	3' - 0"	7' - 0"	1 3/4"	FLUSH	WOOD	HM	4-7/8	STAIN			#4
D10	SECRETARIAL 114	1	3' - 0"	7' - 0"	1 3/4"	NV	VD	REUSE EXISTING	PT EXIST	PT		NOT IN SCOPE	REUSE EXISTING

SEE DOOR HW SETS SHEET A-9



[illegible]

PERMIT DRAWINGS (21 NOVEMBER 2025)

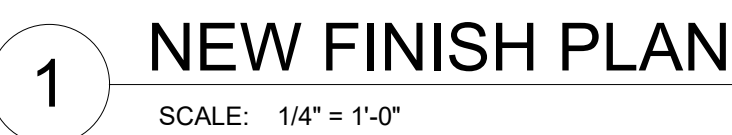
PROJECT NUMBER	25009
DATE	21 NOVEMBER 2025
DRAWN BY	Author
CHECKED BY	Checker
SCALE	As indicated

SRIA RENOVATION

RCP & FINISH PLANS

A-2

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SEE FINISH SCHEDULE SHEET A-9



**SEE SHEETS ELEC FOR LIGHTING
FIXTURE SPECIFICATIONS & SCHEDULE**



No.	Description	Date

PERMIT DRAWINGS (21 NOVEMBER 2025)

PROJECT NUMBER	25009
DATE	21 NOVEMBER 2025
DRAWN BY	PMH
CHECKED BY	JGM

1/4" = 1'-0"

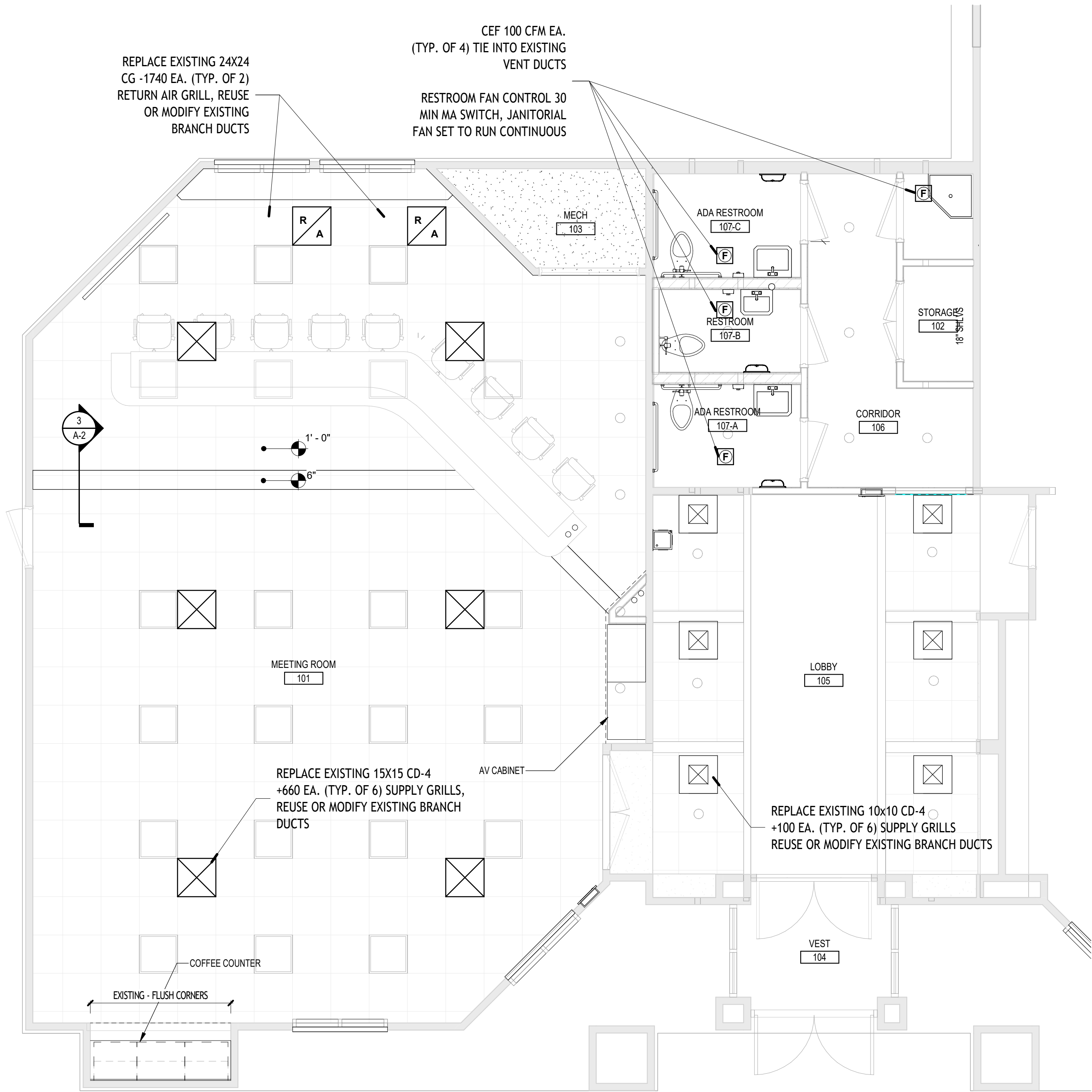
SCALE

SRIA RENOVATION

MEP PLAN

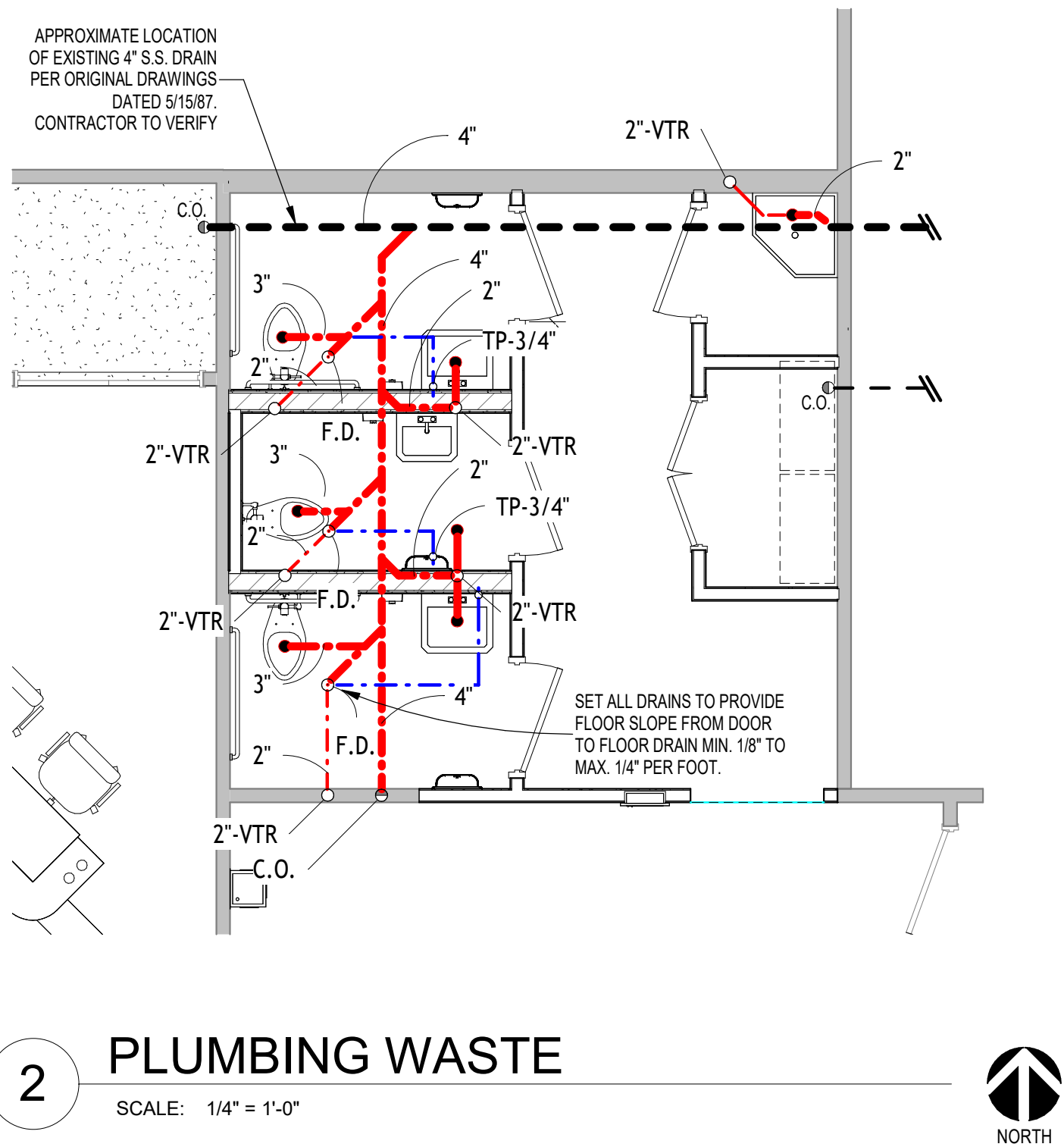
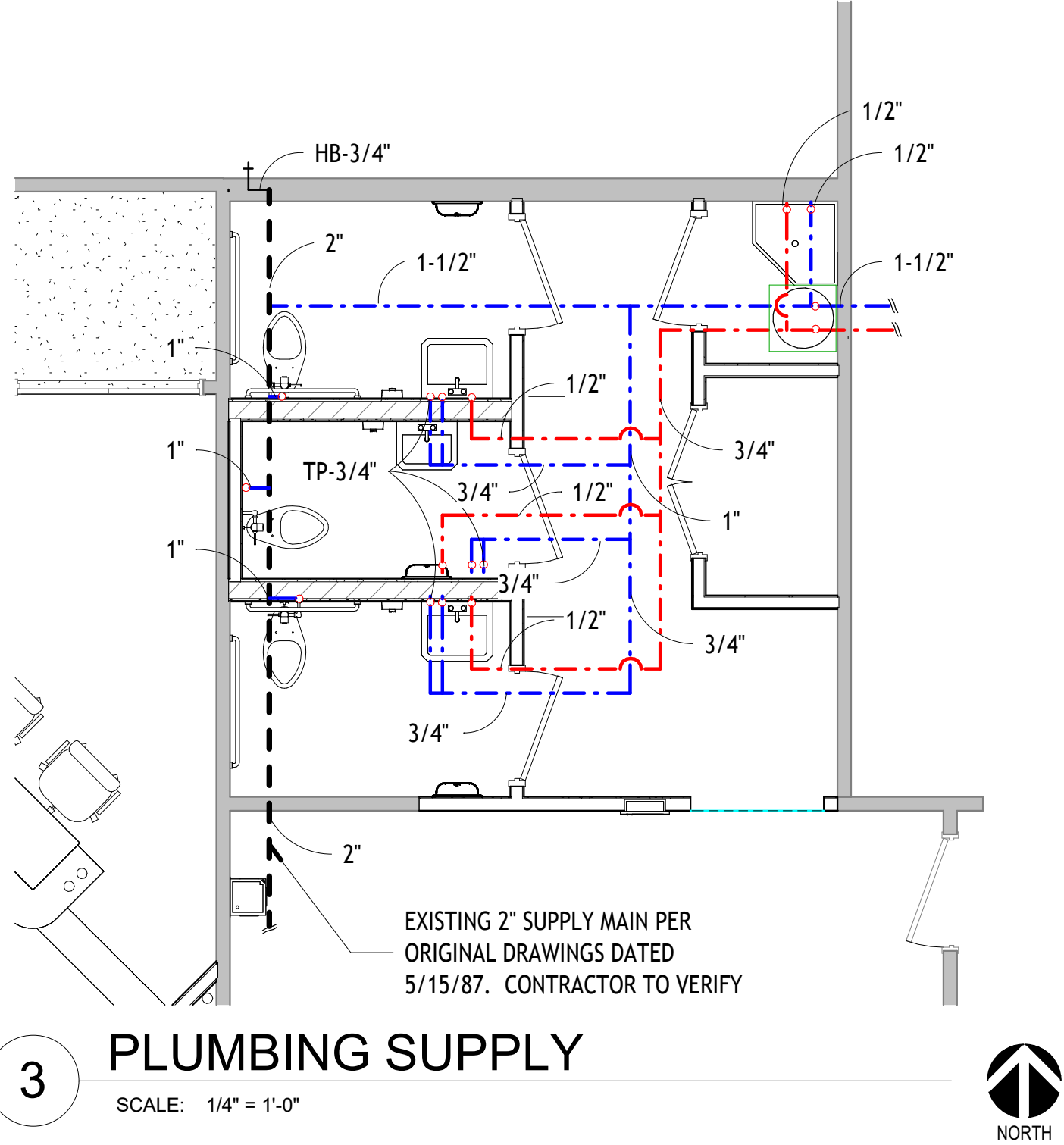
A-4

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MECHANICAL NOTE :
MAINTAIN EXISTING
FIRE DAMPERS
THROUGH FIRE
BARRIERS

MAINTAIN EXISTING
FRESH AIR INTAKE
VOLUME



PLUMBING NOTES:
DEMO ALL EXISTING
PIPES WITHIN
EXCAVATED AREA.
CAP ALL WASTE
AND VENT PIPES
REMAINING

FLOOR DRAINS TO
BE SET MIN. 1/8" TO
MAX. 1/4" PER FOOT
BELOW FFE
@DOORWAY

[illegible]

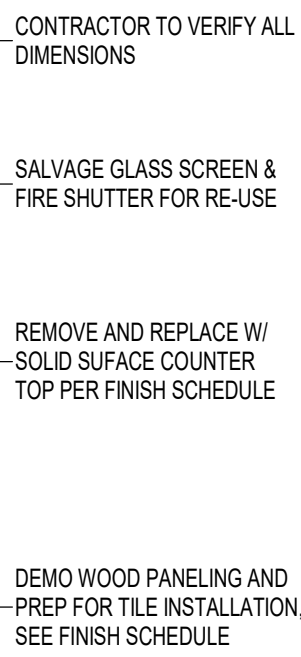
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DATE	21 NOVEMBER 2025
DRAWN BY	Author
CHECKED BY	Checker
SCALE	As indicated

SRIA RENOVATION

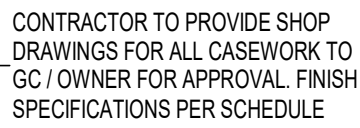
INTERIOR ELEVATIONS

A-5

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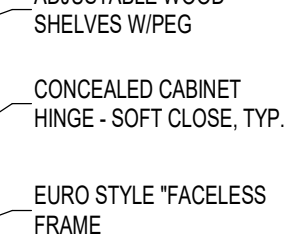
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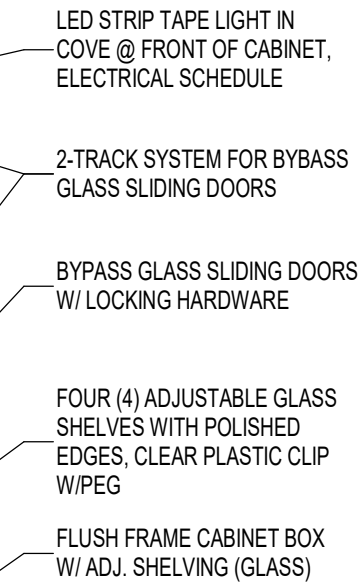
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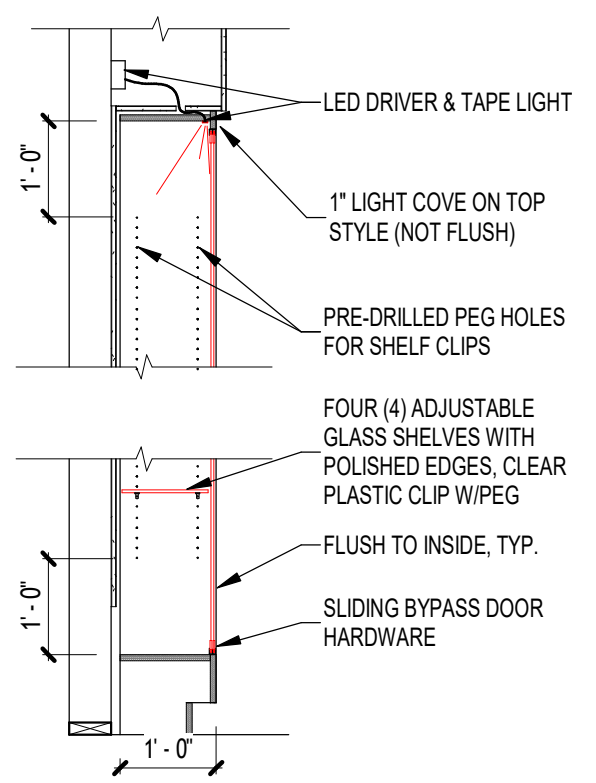
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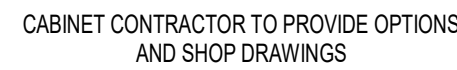
SECTION DETAIL



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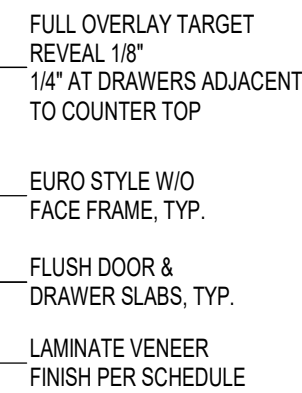
SECTION DETAIL



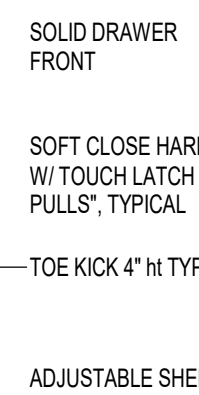
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SCALE: 1/2" = 1'-0"



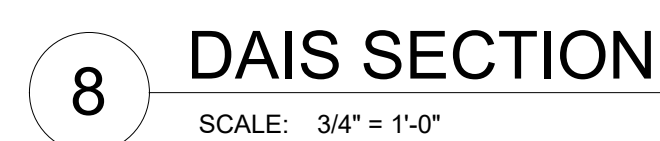
FLUSH PANEL CABINET



SCALE: 1" = 1'-0"

GENERAL NOTES MILLWORK

1. ALL CABINET COLOR AND TYPE TO BE CONFIRMED WITH OWNER PRIOR TO ORDERING.
2. CONFIRM DOOR AND DRAWER STYLES WITH OWNER PRIOR TO ORDERING.
3. CONFIRM FINAL MATERIALS FOR BACKSPLASH AND COUNTERTOP WITH OWNER PRIOR TO ORDERING.
4. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING CABINETS AND COUNTERTOP.
5. F.F. INDICATES FALSE FRONT OR NON-OPERATIONAL DOOR PANEL.







SRIA MEETING ROOM RENOVATIONS

SPECIFICATIONS

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DOCUMENT 006000 - FORMS

1.1 FORM OF AGREEMENT AND GENERAL CONDITIONS

A. The following form of Owner/Contractor Agreement and Exhibit shall be used for Project:

1. The "Standard Form of Agreement Between Owner and Contractor where the Basis of Payment is a Stipulated Sum", American Institute of Architects Document A104-2017.

END OF DOCUMENT 006000

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SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

- 1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent Work as necessary to completely and fully integrate that Work into the Project.

- 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of Alternate.

- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate whether alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.

- C. Execute accepted alternates under the same conditions as other Work of the Contract.

Alternates are indicated on RFP drawings, narratives and Bid Form.

END OF SECTION 012300

SECTION 012500 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. The Work of This Section Includes: Administrative and procedural requirements for substitutions.
- B. Related Requirements:
 - 1. Document 002600 "Procurement Substitution Procedures" for requirements for substitution requests prior to award of Contract.
 - 2. Section 012300 "Alternates" for products selected under an alternate.
 - 3. Section 016000 "Product Requirements" for requirements for submitting comparable product submittals for products by listed manufacturers.

1.2 DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents.
 - 1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
 - 2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required to meet other Project requirements but may offer advantage to Contractor or Owner.

1.3 ACTION SUBMITTALS

- A. Substitution Requests: Submit documentation identifying product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
 - 1. Substitution Request Form: Use form **acceptable to Architect**.
 - 2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
 - a. Statement indicating why specified product or fabrication or installation method cannot be provided, if applicable.
 - b. Coordination of information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.
 - c. Detailed comparison of significant qualities of proposed substitutions with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes, such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
 - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
 - e. Samples, where applicable or requested.
 - f. Certificates and qualification data, where applicable or requested.

- g. List of similar installations for completed projects, with project names and addresses as well as names and addresses of architects and owners.
 - h. Material test reports from a qualified testing agency, indicating and interpreting test results for compliance with requirements indicated.
 - i. Detailed comparison of Contractor's construction schedule using proposed substitutions with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
 - j. Cost information, including a proposal of change, if any, in the Contract Sum.
 - k. Contractor's certification that proposed substitution complies with requirements in the Contract Documents, except as indicated in substitution request, is compatible with related materials and is appropriate for applications indicated.
 - l. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within **seven (7)** days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within **fourteen (14)** days of receipt of request, or **seven (7)** days of receipt of additional information or documentation, whichever is later.
- a. Forms of Acceptance: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.
 - b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.4 QUALITY ASSURANCE

- A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.5 PROCEDURES

- A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

1.6 SUBSTITUTIONS

- A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than **fourteen (14)** days prior to time required for preparation and review of related submittals.
 - 1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
 - a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - b. Requested substitution provides sustainable design characteristics that specified product provided for compliance with IgCC/ASHRAE 189.1 requirements.

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- c. Requested substitution provides sustainable design characteristics that specified product provided for compliance with Green Globes requirements.
 - d. Substitution request is fully documented and properly submitted.
 - e. Requested substitution will not adversely affect Contractor's construction schedule.
 - f. Requested substitution has received necessary approvals from authorities having jurisdiction.
 - g. Requested substitution is compatible with other portions of the Work.
 - h. Requested substitution has been coordinated with other portions of the Work.
 - i. Requested substitution provides specified warranty.
 - j. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
- B. Substitutions for Convenience:
- 1. Not allowed **unless otherwise indicated**. Refer to selections matrix on drawings.
 - 2. Architect will consider requests for substitution if received within **thirty (30)** days after **the Notice of Award**. Requests received after that time may be considered or rejected at discretion of Architect.
- a. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
- 1) Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
 - 2) Requested substitution does not require extensive revisions to the Contract Documents.
 - 3) Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - 4) Requested substitution provides sustainable design characteristics that specified product provided for compliance with IgCC/ASHRAE 189.1 requirements.
 - 5) Requested substitution provides sustainable design characteristics that specified product provided for compliance with Green Globes requirements.
 - 6) Substitution request is fully documented and properly submitted.
 - 7) Requested substitution will not adversely affect Contractor's construction schedule.
 - 8) Requested substitution has received necessary approvals from authorities having jurisdiction.
 - 9) Requested substitution is compatible with other portions of the Work.
 - 10) Requested substitution has been coordinated with other portions of the Work.
 - 11) Requested substitution provides specified warranty.
 - 12) If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION (Not Used)

END OF SECTION 012500

SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section specifies administrative and procedural requirements for handling and processing contract modifications.
 - 1. Division 1 Section "Submittals" for requirements for the Contractor's Construction Schedule.
 - 2. Division 1 Section "Applications for Payment" for administrative procedures governing Applications for Payment.

1.3 MINOR CHANGES IN THE WORK

- A. Owner will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions."

1.4 CHANGE ORDER PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Owner will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Proposal requests issued by the Owner are for information only. Do not consider them as an instruction either to stop work in progress or to execute the proposed change.
 - 2. Within 20 days of receipt of a proposal request, submit an estimate of cost necessary to execute the change to the Owner for review.
 - a. Include a list of quantities of products required and unit costs, with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include a statement indicating the effect the proposed change in the Work will have on the Contract Time.
- B. Contractor-Initiated Work Change Proposals: When latent or unforeseen conditions require modifications to the Contract, the Contractor may propose a claim by submitting a request to the Owner. Note, however, that a discrepancy in the documents is not considered a latent or unforeseen condition.

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1. Include a statement outlining reasons for the change and the effect on the Work. Provide a complete description of the change. Indicate the effect on the Contract Sum and the Contract Time.
2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.

1.5 CHANGE ORDER PROCEDURES

- A. Upon Owner's approval of a Work Changes Proposal Request, Owner will issue a Change Order for signatures of Owner and Contractor on AIA Document G701.

1.6 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: When the Owner and the Contractor disagree on the terms of a Proposal Request, the Owner may issue a Construction Change Directive on AIA Form G714. The Construction Change Directive instructs the Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012600

SECTION 012900 - PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements necessary to prepare and process the Contractor's Applications for Payment.
- B. Related Requirements:
 - 1. Section 012600 "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.
 - 2. Schedules: The Contractor's Construction Schedule and Submittal Schedule are specified in Division 1 Section "Submittals."

1.2 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the Schedule of Values with preparation of Contractor's Construction Schedule.
 - 1. Submit the schedule of values to Owner at earliest possible date but no later than 7 days before the date scheduled for submittal of initial Applications for Payment.
 - 2. Subschedules for Phased Work: Where the Work is separated into phases requiring separately phased payments, provide sub-schedules showing values coordinated with each phase of payment.
- B. Format and Content: Use Project Manual table of contents as a guide to establish line items for the Schedule of Values. Provide at least one line item for each Specification Section.
 - 1. Identification: Include the following Project identification on the schedule of values:
 - a. Project name and location.
 - b. Name of Architect.
 - c. Architect's project number.
 - d. Contractor's name and address.
 - e. Date of submittal.

Arrange schedule of values consistent with format of AIA Document G703 in tabular form with separate columns to indicate the following for each item listed:

- a. Related Specification Section or Division.
- b. Description of Work.
- c. Name of subcontractor.
- d. Name of manufacturer or fabricator.
- e. Name of supplier.
- f. Change Orders (numbers) that affect value.
- g. Dollar value.
 - 1) Percentage of Contract Sum to nearest one-hundredth percent, adjusted to total 100 percent.

2. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with Project Manual table of contents. Break principal subcontract amounts down into several line items.
3. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
4. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
 - a. Differentiate between items stored on-site and items stored off-site. Include written approval from the Owner in advance for materials and equipment suitably stored off-site, and requirements for insurance, storage, and transportation.
5. Provide separate line items in the schedule of values for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work. Margins of Cost: Show line items for indirect costs and margins on actual costs only when such items are listed individually in Applications for Payment.
6. Margins of Cost: Show line items for indirect costs and margins on actual costs only when such items are listed individually in Applications for Payment. Retain first subparagraph below; revise to suit Project. Owner's financial advisors usually insist on this requirement. See Evaluations for discussion on overhead distribution.
 - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the schedule of values or distributed as general overhead expense, at Contractor's option.

1.3 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment shall be consistent with previous applications and payments as certified by Owner's Representative and paid for by Owner.
 1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
- B. Payment Application Times: Each progress-payment date is indicated in the Agreement. The period of construction work covered by each Application for Payment is the period indicated in the Agreement.
- C. Application for Payment Forms: Use AIA Document G702 and AIA Document G703 > as form for Applications for Payment. Identical Contractor developed formats may be used if approved prior to the first application for payment.
- D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Owner will return incomplete applications without action.
 1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
 2. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.

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- E. Transmittal: Submit three (3) signed and notarized original copies of each Application for Payment to Owner by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.
1. Transmit each copy with a transmittal form listing attachments and recording appropriate information related to the application, in a manner acceptable to the Architect.
- F. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's lien from subcontractors, sub-subcontractors and suppliers for the construction period covered by the previous application.
1. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.
 2. When an application shows completion of an item, submit conditional final or full waivers.
 3. Owner reserves the right to designate which entities involved in the Work must submit waivers.
 4. Waiver Delays: Submit each Application for Payment with the Contractor's waiver of mechanics lien for the period of construction covered by the application.
 - a. Submit final Applications for Payment with or preceded by final waivers from every entity involved with performance of the Work covered by the application who is lawfully entitled to a lien.
 5. Waiver Forms: Submit executed waivers of lien on forms acceptable to Owner.
- G. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
1. List of subcontractors.
 2. Schedule of values.
 3. Contractor's construction schedule (preliminary if not final).
 4. Initial progress report.
 5. Certificates of insurance and insurance policies.
 6. Data needed to acquire the Owner's insurance.
 7. Initial settlement survey and damage report, if required.
- H. Application for Payment at Substantial Completion: Following issuance of the Certificate of Substantial Completion, submit an Application for Payment.
1. This application shall reflect Certificates of Partial Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
 2. Administrative actions and submittals that shall precede or coincide with this application include:
 - a. Warranties (guarantees) and maintenance agreements.
 - b. Maintenance instructions.
 - c. Final cleaning.
 - d. Application for reduction of retainage and consent of surety.
 - e. List of incomplete Work, recognized as exceptions to Architect's Certificate of Substantial Completion.
 - f. As-built documents.

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- I. Final Payment Application: Administrative actions and submittals that must precede or coincide with submittal of the final Application for Payment include the following:
 1. Completion of Project closeout requirements.
 2. Completion of items specified for completion after Substantial Completion.
 3. Ensure that unsettled claims will be settled.
 4. Ensure that unacceptable incomplete Work will be completed without undue delay.
 5. Transmittal of required Project construction records to the Owner.
 6. Certified property survey.
 7. Proof that taxes, fees, and similar obligations were paid.
 8. Removal of temporary facilities and services.
 9. Removal of surplus materials, rubbish, and similar elements.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012900

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SECTION 013000 – SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED

- A. This section includes the procedures for submittals.
- B. The Contractor shall maintain an accurate, up-to-date submittal log. A copy of the Contractor's submittal log shall be submitted with each submittal. This log should include the following items:
 - 1. Submittal description and number assigned.
 - 2. Date submitted to Architect.
 - 3. Date returned from Architect.
 - 4. Status of Submittal (No Exceptions Taken, Reviewed as Modified, Revise and Resubmit, Not Reviewed/Rejected).
 - 5. Date of resubmittal and return (as applicable).
 - 6. Date material released (for fabrication or delivery, as applicable).
 - 7. Projected date of fabrication (as applicable).
 - 8. Projected date of delivery to site.
 - 9. Projected date and required lead time so that product installation does not delay contact.
 - 10. Status of O&M manuals submitted (as applicable).

1.2 SHOP DRAWINGS

- A. Present in a clear and thorough manner. Title each drawing with project name and number, identify each element of drawing, sheet number, detail, etc. Use and complete a cover page for each submittal. Failure to use a cover page will result in submittals being returned without review.
- B. Identify field dimensions. Show relation to adjacent or critical features, work, or products.
- C. Shop drawings and submittals shall be transmitted electronically to the Architect.

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1.3 PRODUCT DATA

- A. Submit only pages which are pertinent. Mark each copy of standard printed data to identify pertinent products, referenced to Technical Specification Section number. Show reference standards, performance characteristics, capacities, component parts, finishes, dimensions, required clearances, etc. in order to show compliance with the Plans and Technical Specifications.
- B. Provide Safety Data Sheets (SDS) required by OSHA for all chemicals to be supplied under this contract.
- C. Submittals made without the required transmittal form that clearly identifies the respective Technical Specification Section number for which the submittal is being made will be returned without review. It is the Contractor's responsibility to make clearly identified submittals.
- D. Modify manufacturer's standard schematic drawings and diagrams to supplement standard information and to provide information specifically applicable to the work. Delete information not applicable.
- E. Provide manufacturer's preparation, assembly, delivery, storage, installation, startup, adjusting, and finishing instructions.

1.4 SAMPLES

- A. Submit full range of manufacturer's standard finishes, except when more restrictive requirements are specified, indicating colors, textures, and patterns, for the Architect's selection.
- B. Submit samples to illustrate functional characteristics of products, including parts and attachments.
- C. Acceptable samples which may be used in the Work are indicated in the individual Technical Specification Section for the product or material.
- D. Label each sample with identification required for transmittal letter.
- E. Provide field samples of finishes for the project, as required by individual Technical Specification Sections. Install each sample complete and finished. Acceptable finishes in place may be retained in the completed work.
- F. Those provisions of Paragraph 1.3 of this Section that relate to submittal identification and completeness are applicable for sample submittal.

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1.5 CONTRACTOR REVIEW

- A. Review submittals prior to transmittal. Determine and verify field measurements, field construction criteria, manufacturer's catalog numbers, and conformance of submittal with requirements of the Contract Documents.
- B. Coordinate submittals with requirements of the work and Contract Documents.
- C. Sign and date each sheet of shop drawings and product data, and each sample label to certify compliance with requirements of the Contract Documents. Notify the Architect in writing at time of submittal of any deviations from requirements of the Contract Documents.
- D. Do not purchase, fabricate, or ship products or begin work that requires submittals until return of submittal that the Architect has reviewed.
- E. The Contractor shall check and verify all field measurements and shall be responsible for prompt submission of all shop and working drawings so there shall be no delay in the work.
- F. The Contractor shall be responsible for the delays and/or additional expenses that result from the Contractor's failure to submit a complete submittal and/or to identify portions of the submittal that do not conform to the Technical Specifications.

1.6 SUBMITTAL REQUIREMENTS

- A. Shop drawings and product data submittals shall be prepared and transmitted electronically in PDF format unless otherwise specified.
- B. Use a transmittal form for submittals to the Architect. Identify Project by title. Identify work and product by Technical Specification section and paragraph number.
- C. Submittals shall be made in accordance with the Progress Schedule and in such sequence to avoid delay in the work.
- D. Apply Contractor's electronic stamp, signed certifying to review, verification of products, field dimensions and field construction criteria, and coordination of information with requirements of the work and Contract Documents.
- E. Group submittals as listed in Paragraph 3.1. For submittals which are necessary but not listed in Paragraph 3.1, coordinate submittals into logical groupings to facilitate interrelation of the several items:
 - 1. Finishes that involve the Architect's selection of colors, textures, or patterns.
 - 2. Associated items that require correlation for efficient function or for installation.

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F. Submit number of samples required by individual Technical Specification sections (where applicable).

1.7 RESUBMITTALS

A. Contractor shall make resubmittals under procedures specified for initial submittals. Changes made since previous submittal shall be identified.

B. Resubmittals shall supersede initial submittals.

1.8 ARCHITECT REVIEW

A. Responses to thorough, clear, complete submittals will be provided to the Contractor with reasonable promptness (no longer than fourteen (14) days).

B. Submittals reviewed will be returned electronically stamped.

C. Incomplete, vague, non-stamped, and otherwise unacceptable submittals will be returned unreviewed.

1.9 DISTRIBUTION

A. The Contractor shall duplicate and distribute reproductions of shop drawings, copies of product data, and samples that have been approved, to the job site file, the record documents file, subcontractors, suppliers, other affected contractors, and other entities requiring information.

1.10 SCHEDULE OF SUBMITTALS

A. Shop drawings, product data, and sample submittals shall be made in a timely and logical fashion accounting for the work scheduling and job progress.

B. It is the Contractor's responsibility to prepare, coordinate, and review all submittals prior to delivery to the Architect. The Architect will review each thorough, clear, complete submittal and resubmittals as applicable.

1.11 REVIEW QUALIFICATION

A. Regardless of corrections made or acceptance of such drawings by the Architect, the Contractor shall nevertheless be responsible for the accuracy of such drawings, their conformity to the Contract Documents, and suitability for the work.

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PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.1 CONTRACTOR SUBMITTALS

A. The following submittals shall be required from the Contractor. Additional submittals shall be provided as necessary.

*This table is to be filled in by the Engineer and tailored to the project.

SUBMITTAL	REQUIREMENTS	REFERENCE
Schedule of Values	Submit within 10 days of Notice to Proceed	Section 012900
Preliminary Progress Schedule	Submit prior to mobilizing equipment or material to the site.	Section 013100
Revised Progress Schedules	Submit with each pay request; accompany with a narrative report.	Section 013100
Warranties and Bonds	Submit one (1) binder within 10 days of Final Completion and prior to final application for payment.	Section 017700
Record Documents	Submit all project record documents and samples at Contract closeout.	Section 017700
As-Built Drawings	Submit two (2) CDs/DVDs with as-built drawings in PDF and AutoCAD formats and four (4) full-size hard copies signed and sealed by Registered Surveyor after completion of testing and prior to FDOH Certification.	Section 017700

END OF SECTION 01 30 00

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SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. Coordination drawings.
 - 2. Preconstruction conferences.
 - 3. Preinstallation conferences.
 - 4. Progress meetings.
 - 5. Coordination meetings.
 - 6. General project coordination procedures.
 - 7. Conservation.
 - 8. Administrative and supervisory personnel.
 - 9. Cleaning and protection.

1.2 DEFINITIONS

- A. RFI: Request from Owner or Contractor seeking information required by or clarifications of the Contract Documents.

1.3 SUBMITTALS

- A. Coordination Drawings: Prepare coordination drawings where careful coordination is needed for installation of products and materials fabricated by separate entities. Prepare coordination drawings where limited space availability necessitates maximum utilization of space for efficient installation of different components.
 - 1. Show the relationship of components shown on separate Shop Drawings.
 - 2. Indicate required installation sequences.
 - 3. Comply with requirements contained in Section "Submittals."
 - 4. The need for coordination drawings shall be determined by the General Contractor unless noted otherwise in these specifications.
- B. Staff Names: Within 15 days of commencement of construction operations, submit a list of the Contractor's principal staff assignments, including the superintendent and other personnel in attendance at the Project Site. Identify individuals and their duties and responsibilities. List their addresses and telephone numbers.
 - 1. Post copies of the list in the Project meeting room, the temporary field office, and each temporary telephone.

1.4 GENERAL COORDINATION PROCEDURES

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate

construction operations, included in different Sections, that depend on each other for proper installation, connection, and operation.

1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
 3. Make adequate provisions to accommodate items scheduled for later installation.
- B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
1. Preparation of Contractor's construction schedule.
 2. Preparation of the schedule of values.
 3. Installation and removal of temporary facilities and controls.
 4. Delivery and processing of submittals.
 5. Progress meetings.
 6. Preinstallation conferences.
 7. Project closeout activities.
 8. Startup and adjustment of systems.

1.5 COORDINATION DRAWINGS

- A. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, where installation is not completely shown on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.
1. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
 - a. Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.
 - b. Indicate dimensions shown on the Drawings. Specifically note dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternate sketches to Architect indicating proposed resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.

B. Coordination Drawing Organization: Organize coordination drawings as follows:

1. Floor Plans and Reflected Ceiling Plans: Show architectural and structural elements, and mechanical, plumbing, fire-protection, fire-alarm, and electrical Work. Show locations of visible ceiling-mounted devices relative to acoustical ceiling grid.
2. Plenum Space: Indicate subframing for support of ceiling and wall systems, mechanical and electrical equipment, and related Work. Locate components within ceiling plenum to accommodate layout of light fixtures indicated on Drawings.
3. Mechanical Rooms: Provide coordination drawings for mechanical rooms showing plans and elevations of mechanical, plumbing, fire-protection, fire-alarm, and electrical equipment.
4. Structural Penetrations: Indicate penetrations and openings required for all disciplines.
5. Slab Edge and Embedded Items: Indicate slab edge locations and sizes and locations of embedded items for metal fabrications, sleeves, anchor bolts, bearing plates, angles, door floor closers, slab depressions for floor finishes, curbs and housekeeping pads, and similar items.

1.6 PROJECT MEETINGS

A. General: Schedule and conduct meetings and conferences at Project site unless otherwise indicated.

1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner, within three days of the meeting.

B. Preconstruction Conference: Schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner, but no later than 15 days after execution of the Agreement.

1. Attendees: Authorized representatives of Owner, Contractor, and Architect; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
2. Agenda: Discuss items of significance that could affect progress, including the following:
 - a. Tentative construction schedule.
 - b. Phasing.
 - c. Critical work sequencing and long-lead items.
 - d. Designation of key personnel and their duties.
 - e. Procedures for processing field decisions and Change Orders.
 - f. Procedures for RFIs.
 - g. Procedures for testing and inspecting.

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- h. Procedures for processing Applications for Payment.
- i. Distribution of the Contract Documents.
- j. Submittal procedures.
- k. Preparation of record documents.
- l. Use of the premises.
- m. Work restrictions.
- n. Working hours.
- o. Owner's occupancy requirements.
- p. Responsibility for temporary facilities and controls.
- q. Procedures for moisture and mold control.
- r. Procedures for disruptions and shutdowns.
- s. Construction waste management and recycling.
- t. Parking availability.
- u. Office, work, and storage areas.
- v. Equipment deliveries and priorities.
- w. First aid.
- x. Security.
- y. Progress cleaning.

3. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.

C. Preinstallation Conferences: Conduct a preinstallation conference at Project site before each construction activity that requires coordination with other construction.

1. Attendees: Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise Owner of scheduled meeting dates.

2. Agenda: Review progress of other construction activities and preparations for the particular activity under consideration, including requirements for the following:

- a. Contract Documents.
- b. Options.
- c. Related Change Orders.
- d. Purchases.
- e. Deliveries.
- f. Submittals.
- g. Possible conflicts.
- h. Compatibility problems.
- i. Time schedules.
- j. Weather limitations.
- k. Manufacturer's written instructions.
- l. Warranty requirements.
- m. Compatibility of materials.
- n. Acceptability of substrates.
- o. Temporary facilities and controls.
- p. Space and access limitations.
- q. Regulations of authorities having jurisdiction.
- r. Testing and inspecting requirements.

- s. Installation procedures.
- t. Coordination with other work.
- u. Required performance results.
- v. Protection of adjacent work.
- w. Protection of construction and personnel.

3. Record significant conference discussions, agreements, and disagreements, including required corrective measures and actions.

4. Reporting: Distribute minutes of the meeting to each party present and to other parties requiring information.

5. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.

D. Progress Meetings: Conduct progress meetings at regular intervals.

1. Attendees: In addition to representatives of Owner, Contractor, and Architect, each subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.

2. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.

a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.

1) Review schedule for next period.

b. Review present and future needs of each entity present, including the following:

- 1) Interface requirements.
- 2) Sequence of operations.
- 3) Status of submittals.
- 4) Deliveries.
- 5) Off-site fabrication.
- 6) Access.
- 7) Site utilization.
- 8) Temporary facilities and controls.
- 9) Progress cleaning.

- 10) Quality and work standards.
- 11) Status of correction of deficient items.
- 12) Field observations.
- 13) Status of proposal requests.
- 14) Pending changes.
- 15) Status of Change Orders.
- 16) Pending claims and disputes.
- 17) Documentation of information for payment requests.

3. Minutes: Entity responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.

a. Schedule Updating: Revise Contractor's construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 GENERAL COORDINATION PROVISIONS

A. Inspection of Conditions: Require the Installer of each major component to inspect both the substrate and conditions under which Work is to be performed. Do not proceed until unsatisfactory conditions have been corrected in an acceptable manner.

B. Coordinate temporary enclosures with required inspections and tests to minimize the necessity of uncovering completed construction for that purpose.

3.2 CLEANING AND PROTECTION

- A. Clean and protect construction in progress and adjoining materials in place, during handling and installation. Apply protective covering where required to assure protection from damage or deterioration at Substantial Completion.
- B. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to assure operability without damaging effects.
- C. Limiting Exposures: Supervise construction operations to assure that no part of the construction completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period. Where applicable, such exposures include, but are not limited to, the following:
 1. Excessive static or dynamic loading.
 2. Excessive internal or external pressures.
 3. Excessively high or low temperatures.
 4. Thermal shock.
 5. Excessively high or low humidity.
 6. Air contamination or pollution.
 7. Water or ice. Solvents.
 8. Chemicals.
 9. Light.
 10. Radiation.

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11. Puncture.
12. Abrasion.
13. Heavy traffic.
14. Soiling, staining, and corrosion.
15. Bacteria.
16. Rodent and insect infestation.
17. Combustion.
18. Electrical current.
19. High-speed operation.
20. Improper lubrication.
21. Unusual wear or other misuse.
22. Contact between incompatible materials.
23. Destructive testing.
24. Misalignment.
25. Excessive weathering.
26. Unprotected storage.
27. Improper shipping or handling.
28. Theft.
29. Vandalism.

END OF SECTION 013100

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SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS.

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for construction facilities and temporary controls, including temporary utilities, support facilities, and security and protection facilities.
- B. Temporary utilities include, but are not limited to, the following
 - 1. Water service and distribution.
 - 2. Temporary electric power and light.
 - 3. Telephone service.
 - 4. Sanitary facilities, including drinking water.
- C. Support facilities include, but are not limited to, the following:
 - 1. Field offices and storage sheds.
 - 2. Temporary enclosures.
 - 3. Waste disposal services.
 - 4. Rodent and pest control.
 - 5. Construction aids and miscellaneous services and facilities.
- D. Security and protection facilities include, but are not limited to, the following:
 - 1. Barricades at existing streets.
 - 2. Sidewalk bridge or enclosure fence for the site.
 - 3. Environmental protection.

1.3 SUBMITTALS

- A. Temporary Utilities: Submit reports of tests, inspections, meter readings, and similar procedures performed on temporary utilities.
- B. Implementation and Termination Schedule: Within 15 days of the date established for commencement of the Work, submit a schedule indicating implementation and termination of each temporary utility.

1.4 QUALITY ASSURANCE

- A. Regulations: Comply with industry standards and applicable laws and regulations of authorities having jurisdiction including, but not limited to, the following:
 - a. Building code requirements.
 - b. Health and safety regulations.
 - c. Utility company regulations.
 - d. Police, fire department, and rescue squad rules.

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- e. Environmental protection regulations.
- B. Standards: Comply with NFPA 241 "Standard for Safeguarding Construction, Alterations, and Demolition Operations," ANSI A10 Series standards for "Safety Requirements for Construction and Demolition," and NECA Electrical Design Library "Temporary Electrical Facilities."
 - a. Electrical Service: Comply with NEMA, NECA, and UL standards and regulations for temporary electric service. Install service in compliance with NFPA 70 "National Electric Code."
- C. Inspections: Arrange for authorities having jurisdiction to inspect and test each temporary utility before use. Obtain required certifications and permits. PROJECT CONDITIONS
- D. Temporary Utilities: Prepare a schedule indicating dates for implementation and termination of each temporary utility. At the earliest feasible time, when acceptable to the Owner, change over from use of temporary service to use of permanent service. Conditions of Use: Keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner. Relocate temporary services and facilities as the Work progresses. Do not overload facilities or permit them to interfere with progress. Take necessary fire-prevention measures. Do not allow hazardous, dangerous, or unsanitary conditions, or public nuisances to develop or persist onsite.

PART 2 - PRODUCTS 2.1 MATERIALS

- A. General: Provide new materials. If acceptable to the Architect, the Contractor may use undamaged, previously used materials in serviceable condition. Provide materials suitable for use intended.
- B. Lumber and Plywood: Comply with requirements in Division 6 Section "Rough Carpentry."
 - 1. For job-built temporary offices, shops, and sheds within the construction area, provide UL-labeled, fire-treated lumber and plywood for framing, sheathing, and siding.
 - 2. For signs and directory boards, provide exterior-type, Grade B-B high-density concrete form overlay plywood of sizes and thicknesses indicated.
 - 3. For fences and vision barriers, provide minimum 3/8-inch- (9.5-mm-) thick exterior plywood.
 - 4. For safety barriers, sidewalk bridges, and similar uses, provide minimum 5/8-inch- (16mm-) thick exterior plywood.
- C. Gypsum Wallboard: Provide gypsum wallboard on interior walls of temporary offices.
- D. Roofing Materials: Provide UL Class A standard-weight asphalt shingles or UL Class C mineral-surfaced roll roofing on roofs of job-built temporary offices, shops, and sheds.
- E. Paint: Comply with requirements of Division 9 Section "Painting." 1. 2. 3. For job-built temporary offices, shops, sheds, fences, and other exposed lumber and plywood, provide exterior-grade acrylic-latex emulsion over exterior primer. For sign panels and applying graphics, provide exterior-grade alkyd gloss enamel over exterior primer. For interior walls of temporary offices, provide 2 coats interior latex-flat wall paint.

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- F. Tarpaulins: Provide waterproof, fire-resistant, UL-labeled tarpaulins with flame-spread rating of 15 or less. For temporary enclosures, provide translucent, nylon-reinforced, laminated polyethylene or polyvinyl chloride, fire-retardant tarpaulins.
- G. Water: Provide potable water approved by local health authorities.
- H. Temporary Offices: Provide prefabricated or mobile units or similar job-built construction with lockable entrances, operable windows, and serviceable finishes. Provide heated and airconditioned units on foundations adequate for normal loading.
- I. Temporary Toilet Units: Provide self-contained, single-occupant toilet units of the chemical, aerated recirculation, or combustion type. Provide units properly vented and fully enclosed with a glass-fiber-reinforced polyester shell or similar nonabsorbent material.
- J. Fire Extinguishers: Provide hand-carried, portable, UL-rated, Class A fire extinguishers for temporary offices and similar spaces. In other locations, provide hand-carried, portable, UL-rated, Class ABC, dry-chemical extinguishers or a combination of extinguishers of NFPA recommended classes for the exposures. 1. Comply with NFPA 10 and NFPA 241 for classification, extinguishing agent, and size required by location and class of fire exposure.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Use qualified personnel for installation of temporary facilities. Locate facilities where they will serve the Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required.
- B. Provide each facility ready for use when needed to avoid delay. Maintain and modify as required. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Engage the appropriate local utility company to install temporary service or connect to existing service. Where company provides only part of the service, provide the remainder with matching, compatible materials and equipment. Comply with company recommendations.
 - 1. Arrange with company and existing users for a time when service can be interrupted, if necessary, to make connections for temporary services.
 - 2. Provide adequate capacity at each stage of construction. Prior to temporary utility availability, provide trucked-in services.
 - 3. Obtain easements to bring temporary utilities to the site where the Owner's easements cannot be used for that purpose.
 - 4. Use Charges: Cost or use charges for temporary facilities are not chargeable to the Owner or Architect. Neither the Owner nor Architect will accept cost or use charges as a basis of claims for Change Orders.
 - 5. The Contractor shall furnish all temporary light and power complete with all wiring, lamps and similar equipment, as required for the completion of the work. The Contractor shall pay for all current for all temporary lighting for all trades.

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- B. Water Service: Install water service and distribution piping in sizes and pressures adequate for construction until permanent water service is in use.
 - 1. Sterilization: Sterilize temporary water piping prior to use.
- C. Temporary Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, overload-protected disconnects, automatic ground-fault interrupters, and main distribution switch gear.
 - 1. Install electric power service underground, except where overhead service must be used.
 - 2. Power Distribution System: Install wiring overhead and rise vertically where least exposed to damage. Where permitted, wiring circuits not exceeding 125 Volts, ac 20 Ampere rating, and lighting circuits may be nonmetallic sheathed cable where overhead and exposed for surveillance.
- D. Temporary Lighting: When overhead floor or roof deck has been installed, provide temporary lighting with local switching.
 - 1. Install and operate temporary lighting that will fulfill security and protection requirements without operating the entire system. Provide temporary lighting that will provide adequate illumination for construction operations and traffic conditions.
- E. Temporary Telephones: Provide temporary telephone service throughout the construction period for all personnel engaged in construction activities. Install telephone on a separate line for each temporary office and first-aid station.
 - 1. At each telephone, post a list of important telephone numbers.
- F. Sanitary facilities include temporary toilets, wash facilities, and drinking-water fixtures. Comply with regulations and health codes for the type, number, location, operation, and maintenance of fixtures and facilities. Install where facilities will best serve the Project's needs.
- G. Provide toilet tissue, paper towels, paper cups, and similar disposable materials for each facility. Provide covered waste containers for used material.
- H. Toilets: Install self-contained toilet units. Shield toilets to ensure privacy. Use of pit-type privies will not be permitted.
- I. Drinking-Water Facilities: Provide containerized, tap-dispenser, drinking-water units, including paper supply.
 - 1. Where power is accessible, provide electric water coolers to maintain dispensed water temperature at 45 to 55 deg F (7 to 13 deg C).
- J. Sewers and Drainage: If sewers are available, provide temporary connections to remove effluent that can be discharged lawfully. If sewers are not available or cannot be used, provide drainage ditches, dry wells, stabilization ponds, and similar facilities. If neither sewers nor drainage

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facilities can be lawfully used for discharge of effluent, provide containers to remove and dispose of effluent off-site in a lawful manner.

- K. Provide earthen embankments and similar barriers in and around excavations and subgrade construction, sufficient to prevent flooding by runoff of storm water from heavy rains.

3.3 SUPPORT FACILITIES INSTALLATION

- A. Locate field offices, storage sheds, and other temporary construction and support facilities for easy access.
 - 1. Maintain support facilities until near Substantial Completion. Remove prior to Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to the Owner.
- B. Provide incombustible construction for offices, shops, and sheds located within the construction area or within 30 feet (9 m) of building lines. Comply with requirements of NFPA 241.
- C. Field Offices: Provide insulated, weathertight temporary offices of sufficient size to accommodate required office personnel at the Project Site. Keep the office clean and orderly for use for small progress meetings. Furnish and equip offices as follows:
 - 1. Furnish with a desk and chairs, a 2-drawer file cabinet, plan table, and plan rack. Also provide a conference table with a minimum of eight chairs.
- D. Storage and Fabrication Sheds: Install storage and fabrication sheds sized, furnished, and equipped to accommodate materials and equipment involved, including temporary utility service. Sheds may be open shelters or fully enclosed spaces within the building or elsewhere on-site..
- E. Project Identification and Temporary Signs: Prepare project identification and other signs of size indicated. Install signs where indicated to inform the public and persons seeking entrance to the Project. Support on posts or framing of preservative-treated wood or steel. Do not permit installation of unauthorized signs.
 - 1. Project Identification Signs: Provide an eight foot square single surfaced sign. Engage an experienced sign painter to apply graphics. Comply with details to be furnished by Architect.
 - 2. Temporary Signs: Prepare signs to provide directional information to construction personnel and visitors.
- F. Collection and Disposal of Waste: Collect waste from construction areas and elsewhere daily. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly. Do not hold materials more than 7 days during normal weather or 3 days when the temperature is expected to rise above 80 deg F (27 deg C). Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material lawfully.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Barricades, Warning Signs, and Lights: Comply with standards and code requirements for erection of structurally adequate barricades. Paint with appropriate colors, graphics, and warning signs to inform personnel and the public of the hazard being protected against. Where appropriate and needed, provide lighting, including flashing red or amber lights.
- B. Security Enclosure and Lockup: Install substantial temporary enclosure of partially completed areas of construction. Provide locking entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security.
 - 1. Storage: Where materials and equipment must be stored, and are of value or attractive for theft, provide a secure lockup. Enforce discipline in connection with the installation and release of material to minimize the opportunity for theft and vandalism.
- C. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction in ways and by methods that comply with environmental regulations, and minimize the possibility that air, waterways, and subsoil might be contaminated or polluted or that other undesirable effects might result. Avoid use of tools and equipment that produce harmful noise. Restrict use of noise-making tools and equipment to hours that will minimize complaints from persons or firms near the site.

3.5 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. Limit availability of temporary facilities to essential and intended uses to minimize waste and abuse.
- B. Maintenance: Maintain facilities in good operating condition until removal. Protect from damage by freezing temperatures and similar elements.
 - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
 - 2. Protection: Prevent water-filled piping from freezing. Maintain markers for underground lines. Protect from damage during excavation operations.
- C. Termination and Removal: Unless the Architect requests that it be maintained longer, remove each temporary facility when the need has ended, when replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with the temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 - 1. Materials and facilities that constitute temporary facilities are the Contractor's property. The Owner reserves the right to take possession of project identification signs.
 - 2. Remove temporary paving not intended for or acceptable for integration into permanent paving. Where the area is intended for landscape development, remove soil and aggregate fill that do not comply with requirements for fill or subsoil in the area. Remove materials contaminated with road oil, asphalt and other petrochemical compounds, and other substances that might impair growth of plant materials or lawns.

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Repair or replace street paving, curbs, and sidewalks at the temporary entrances, as required by the governing authority.

3. At Substantial Completion, clean and renovate permanent facilities used during the construction period including, but not limited to, the following:

- a. Replace air filters and clean inside of ductwork and housings.
- b. Replace significantly worn parts and parts subject to unusual operating conditions.
- c. Replace lamps burned out or noticeably dimmed by hours of use.

3.6 MOLD AND MILDEW PREVENTION

A. Moisture Control:

1. To avoid the development and growth of mold and mildew during construction and after building occupancy, keep building materials dry from date of delivery until final completion.

2. Protect building materials from rain, ground water, capillary action, Contractor's cleaning moisture, condensation, and other wetting sources.

3. Material to be protected by moisture control include inside faces of exterior sheathing, insulation, gypsum board, plywood, interior finishes, interior wood products and the like.

4. Provide temperature and humidity control before, during, and after placing interior finish materials. After the building is "dried in" and openings to the exterior are closed up, temporary temperature and humidity control system or primary building HVAC system shall be started and shall be operated 24 hours per day for 3 days or until interior conditions are maintained at 72 to 75 degrees F and 40 to 50 % RH. Install interior finishes while maintaining these conditions. Maintain positive interior pressure and dehumidification. Operate temperature and humidity control system continuously until final completion and acceptance by the Owner.

5. After HVAC system operation is commenced, make moisture tests on all walls of each room of the building. Moisture readings on gypsum board in excess of 0.4% are considered excessive. In spaces where such readings are observed, make and record readings in representative locations such as 1/2, 1/2 and 3/4 of the way up the walls in various locations. Map out areas where wet materials are located and remove and replace finish materials that cannot be brought to acceptable moisture content within one week.

6. After initial Test and Balance of HVAC system and final completion is accomplished, remove, discard, and replace filters, clean interior of ductwork and coils, leaving entire HVAC system in the same condition as at start-up. Notify Architect when this work is being completed, allowing for inspection of the system.

END OF SECTION 015000

SECTION 016000 - PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. The Work of This Section Includes: Administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products.

B. Related Requirements:

1. Section 012300 "Alternates" for products selected under an alternate.
2. Section 012500 "Substitution Procedures" for requests for substitutions.
3. Section 017700 "Closeout Procedures" for submitting warranties.

1.2 DEFINITIONS

A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.

1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
2. New Products: Items that have not previously been incorporated into another project or facility. Salvaged items or items reused from other projects are not considered new products. Items that are manufactured or fabricated to include recycled content materials are considered new products unless otherwise indicated.
3. Comparable Product: Product by named manufacturer that is demonstrated and approved through the comparable product submittal process described in "Comparable Products" Article, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.

B. Basis-of-Design Product Specification: A specification in which a single manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation. Published attributes and characteristics of basis-of-design product establish salient characteristics of products.

1. Evaluating Comparable Products: In addition to the basis-of-design product description, product attributes and characteristics may be listed to establish the significant qualities related to type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other special features and requirements for purposes of evaluating comparable products of additional manufacturers named in the specification. Manufacturer's published attributes and characteristics of basis-of-design product also establish salient characteristics of products for purposes of evaluating comparable products.

C. Comparable Product Request Submittal: An action submittal requesting consideration of a comparable product, including the following information:

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1. Identification of basis-of-design product or fabrication or installation method to be replaced, including Specification Section number and title and Drawing numbers and titles.
2. Data indicating compliance with the requirements specified in "Comparable Products" Article.

D. Basis-of-Design Product Specification Submittal: An action submittal complying with requirements in Section 013000 "Submittal Procedures."

E. Substitution: Refer to Section 012500 "Substitution Procedures" for definition and limitations on substitutions.

1.3 QUALITY ASSURANCE

A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, select product compatible with products previously selected, even if previously selected products were also options.

1. Resolution of Compatibility Disputes between Multiple Contractors:
 - a. Contractors are responsible for providing products and construction methods compatible with products and construction methods of other contractors.
 - b. If a dispute arises between the multiple contractors over concurrently selectable but incompatible products, Architect will determine which products will be used.

B. Identification of Products: Except for required labels and operating data, do not attach or imprint manufacturer or product names or trademarks on exposed surfaces of products or equipment that will be exposed to view in occupied spaces or on the exterior.

1. Labels: Locate required product labels and stamps on a concealed surface, or, where required for observation following installation, on a visually accessible surface that is inconspicuous.
2. Equipment Nameplates: Provide a permanent nameplate on each item of service- or power-operated equipment. Locate on a visually accessible but inconspicuous surface. Include information essential for operation, including the following:
 - a. Name of product and manufacturer.
 - b. Model and serial number.
 - c. Capacity.
 - d. Speed.
 - e. Ratings.

1.4 COORDINATION

A. Modify or adjust affected work as necessary to integrate work of approved comparable products and approved substitutions.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle products, using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.

B. Delivery and Handling:

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1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
4. Inspect products on delivery to determine compliance with the Contract Documents and that products are undamaged and properly protected.

C. Storage:

1. Provide a secure location and enclosure at Project site for storage of materials and equipment.
2. Store products to allow for inspection and measurement of quantity or counting of units.
3. Store materials in a manner that will not endanger Project structure.
4. Store products that are subject to damage by the elements under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation and with adequate protection from wind.
5. Protect foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
6. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
7. Protect stored products from damage and liquids from freezing.
8. Provide a secure location and enclosure at Project site for storage of materials and equipment by Owner's construction forces. Coordinate location with Owner.

1.6 PRODUCT WARRANTIES

A. Warranties specified in other Sections are to be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.

1. Manufacturer's Warranty: Written standard warranty form furnished by individual manufacturer for a particular product and issued in the name of Owner or endorsed by manufacturer to Owner.
2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner and issued in the name of Owner or endorsed by manufacturer to Owner.

B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.

1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
2. Specified Form: When specified forms are included in the Project Manual, prepare a written document, using indicated form properly executed.
3. See other Sections for specific content requirements and particular requirements for submitting special warranties.

C. Submittal Time: Comply with requirements in Section 017700 "Closeout Procedures."

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.

1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
3. Owner reserves the right to limit selection to products with warranties meeting requirements of the Contract Documents.
4. Where products are accompanied by the term "as selected," Architect will make selection.
5. Descriptive, performance, and reference standard requirements in Specifications establish salient characteristics of products.
6. Or Equal: For products specified by name and accompanied by the term "or equal," "or approved equal," or "or approved," comply with requirements in "Comparable Products" Article to obtain approval for use of an unnamed product.
 - a. Submit additional documentation required by Architect in order to establish equivalency of proposed products. Unless otherwise indicated, evaluation of "or equal" product status is by Architect, whose determination is final.

B. Product Selection Procedures:

1. Sole Product: Where Specifications name a single manufacturer and product, provide the named product that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
 - a. Sole product may be indicated by the phrase "Subject to compliance with requirements, provide the following."
2. Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, provide the specified or indicated product or a comparable product. Drawings and Specifications may additionally indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product by one of the other named manufacturers.
 - a. For approval of products by unnamed manufacturers, comply with requirements in Section 012500 "Substitution Procedures" for substitutions for convenience.

2.2 COMPARABLE PRODUCTS

A. Conditions for Consideration of Comparable Products: Architect will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Architect may return requests without action, except to record noncompliance with the following requirements:

1. Evidence that proposed product does not require revisions to the Contract Documents, is consistent with the Contract Documents, will produce the indicated results, and is compatible with other portions of the Work.
2. Detailed comparison of significant qualities of proposed product with those of the named basis-of-design product. Significant product qualities include attributes such as type, function, in-service performance and physical properties, weight, dimension, durability, visual characteristics, and other specific features and requirements.
3. Evidence that proposed product provides specified warranty.
4. List of similar installations for completed projects, with project names and addresses and names and addresses of architects and owners, if requested.
5. Samples, if requested.

B. Architect's Action on Comparable Products Submittal: If necessary, Architect will request additional information or documentation for evaluation within **seven (7)** days of receipt of a request for a comparable product. Architect will notify Contractor of approval or rejection of proposed comparable product within **14 (fourteen)** days of receipt of request, or **seven (7)** days of receipt of additional information or documentation, whichever is later.

1. Architect's Approval of Submittal: **Marked with approval notation from Architect's action stamp.** See Section 013000 "Submittal Procedures."
2. Use product specified if Architect does not issue a decision on use of a comparable product request within time allocated.

C. Submittal Requirements, Two-Step Process: Approval by Architect of Contractor's request for use of comparable product is not intended to satisfy other submittal requirements. Comply with specified submittal requirements.

D. Submittal Requirements, Single-Step Process: When acceptable to Architect, incorporate specified submittal requirements of individual Specification Section in combined submittal for comparable products. Approval by Architect of Contractor's request for use of comparable product and of individual submittal requirements will also satisfy other submittal requirements.

PART 3 - EXECUTION (Not Used)

END OF SECTION 016000

SECTION 017300 - EXECUTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:

1. Construction layout.
2. Field engineering and surveying.
3. Installation of the Work.
4. Cutting and patching.
5. Progress cleaning.
6. Starting and adjusting.
7. Protection of installed construction.

1.2 RELATED DOCUMENTS

- A. This Section includes administrative and procedural requirements for Contract Closeout, including the following:

1. Inspection procedures for Substantial Completion:

a. Preliminary Procedures: Before requesting inspection for certification of Substantial Completion, complete the following. List exceptions in the request.

1) In the Application for Payment that coincides with, or first follows, the date Substantial Completion is claimed, show 100 percent completion for the portion of the Work claimed as substantially complete.

a) Include supporting documentation for completion as indicated in these Contract Documents and a statement showing an accounting of changes to the Contract Sum.

b) If 100 percent completion cannot be shown, include a list of incomplete items, the value of incomplete construction, and the reasons the Work is not completed.

2) Submit specific warranties, workmanship bonds, maintenance agreements, final certifications, and similar documents.

3) Obtain and submit releases enabling the Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.

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4) Deliver tools, spare parts, extra stock, and similar items.

5) Make final changeover of permanent locks and transmit keys to Owner. Advise Owner's personnel of changeover in security provisions.

6) Complete final cleanup requirements, including touchup painting.

7) Touch up and otherwise repair and restore marred, exposed finishes.

b. Inspection Procedures: On receipt of a request for inspection, the Architect will either proceed with inspection or advise the Contractor of unfulfilled requirements. The Owner will prepare the Certificate of Substantial Completion following inspection or advise the Contractor of construction that must be completed or corrected before the certificate will be issued.

1) The Owner will repeat inspection when requested and assured that the Work is substantially complete. If necessary, reinspection will be repeated. Payment for the cost of services from the Owner for reinspection beyond one (1) reinspection at Substantial Completion will be the responsibility of the Contractor. Payment for these services will be deducted from final payment at a cost equal to actual effort involved times the Owner's Representative current billing rates plus 110% of all expenses.

2) Results of the completed inspection will form the basis of requirements for final acceptance.

2. Record Document Submittals

a. General: Do not use record documents for construction purposes. Protect record documents from deterioration and loss in a secure, fire-resistant location. Provide access to record documents for the Architect's reference during normal working hours

b. Record Drawings: Maintain a clean, undamaged set of reproducible mylar sepias of Contract Drawings and Shop Drawings. The cost of a set of sepias is the responsibility of the Contractor. Mark the set to show the actual installation where the installation varies substantially from the Work as originally shown. Mark which drawing is most capable of showing conditions fully and accurately. Where Shop Drawings are used, record a crossreference at the corresponding location on the Contract Drawings. Give particular attention to concealed elements that would be difficult to measure and record at a later date.

1) Mark record sets with red erasable pencil. Use other colors to distinguish between variations in separate categories of the Work.

2) Mark new information that is important to the Owner but was not shown on Contract Drawings or Shop Drawings.

3) Note related change-order numbers where applicable.

4) Organize record drawing sheets into manageable sets. Bind sets with durable-paper cover sheets; print suitable titles, dates, and other identification on the cover of each set.

c. Record Product Data: Maintain one copy of each Product Data submittal. Note related Change Orders and markup of record drawings and Specifications.

- 1) Mark these documents to show significant variations in actual Work performed in comparison with information submitted. Include variations in products delivered to the site and from the manufacturer's installation instructions and recommendations.
 - 2) Give particular attention to concealed products and portions of the Work that cannot otherwise be readily discerned later by direct observation.
 - 3) Upon completion of markup, submit complete set of record Product Data to the Owner for their records.
- d. Record Sample Submitted: Immediately prior to Substantial Completion, the Contractor shall meet with the Owner's personnel at the Project Site to determine which Samples are to be transmitted to the Owner for record purposes. Comply with the Owner's instructions regarding delivery to the Owner's Sample storage area.
- e. Miscellaneous Record Submittals: Refer to other Specification Sections for requirements of miscellaneous record keeping and submittals in connection with actual performance of the Work. Immediately prior to the date or dates of Substantial Completion, complete miscellaneous records and place in good order. Identify miscellaneous records properly and bind or file, ready for continued use and reference. Submit to the Owner for their records.
- f. Maintenance Manuals: Organize operation and maintenance data into suitable sets of manageable size. Bind properly indexed data in individual, heavy-duty, 2-inch (51-mm), 3-ring, vinyl-covered binders, with pocket folders for folded sheet information. Mark appropriate identification on front and spine of each binder. Include the following types of information:
- 1) Emergency instructions.
 - 2) Spare parts list.
 - 3) Copies of warranties.
 - 4) Wiring diagrams.
 - 5) Recommended "turn-around" cycles.
 - 6) Inspection procedures.
 - 7) Shop drawings and product data.
 - 8) Fixture lamping schedule.
 - 9) Submit a separate binder with an overall maintenance schedule with routine maintenance requirements identified starting at Substantial Completion and key referenced to specific maintenance procedures and instructions. An overall maintenance schedule shall be prepared and submitted including all finish materials, equipment and all operating components of the facility. Organize this schedule by Specification Division and include weekly, monthly, and yearly maintenance requirements. Include a reference to where maintenance procedures are located within the manuals providing for each routine service requirement. Extract a specific maintenance schedule for each individual manual provided and place this schedule in the front of each manual.

g. Warranties:

- 1) Submit warranties, as required in various sections of specifications, in a separate binder. Confirm that written warranties agree with requirements in specifications.

3. Final Cleaning

- a. General: The General Conditions require general cleaning during construction. Regular site cleaning is included in Division 1 SECTION 01 50 00 TEMPORARY FACILITIES AND CONTROLS
- b. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to the condition expected in a normal, commercial building cleaning and maintenance program. instructions. Comply with manufacturer's Complete the following cleaning operations before requesting inspection for certification of Substantial Completion.
 - a) Remove labels that are not permanent labels.
 - b) Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other substances that are noticeable vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials.
 - c) Clean exposed exterior and interior hard-surfaced finishes to a dustfree condition, free of stains, films, and similar foreign substances. Restore reflective surfaces to their original condition. Leave concrete floors broom clean. Vacuum carpeted surfaces.
 - d) Wipe surfaces of mechanical and electrical equipment. Remove excess lubrication and other substances. Clean plumbing fixtures to a sanitary condition.
 - e) Clean light fixtures and lamps. Clean the site, including landscape development areas, of rubbish, litter, and other foreign substances. Sweep paved areas broom clean; remove stains, spills, and other foreign deposits. Rake grounds that are neither paved nor planted to a smooth, even-textured surface.
- c. Removal of Protection: Remove temporary protection and facilities installed for protection of the Work during construction.
- d. Compliance: Comply with regulations of authorities having jurisdiction and safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on the Owner's property. Do not discharge volatile, harmful, or dangerous materials into drainage systems. Remove waste materials from the site and dispose of lawfully.
 - 1) Where extra materials of value remain after completion of associated Work, they become the Owner's property. Dispose of these materials as directed by the Owner.

4. Penalty for replacing Project Superintendent before final completion.

a. The Contractor's Project Superintendent is expected to be in charge of the project through final completion and acceptance.

b. If the General Contractor's Project Superintendent is removed from the project prior to final completion and is replaced by another person, the final amount payable to the Contractor shall be reduced by ½ of 1% of the final Contract Sum.

5. Liquidated damages for failure to accomplish Substantial Completion and Final Completion on schedule.

- a. For each day beyond the scheduled date of Substantial Completion, on which Substantial Completion is accomplished, the amount payable to the Contractor shall be reduced by the amount set out in the Bid Form.
- b. Final Completion shall be accomplished not later than 15 days following the date of Substantial Completion; otherwise the amount payable to the Contractor shall be reduced by this amount.

6. Final Acceptance

- a. Preliminary Procedures: Before requesting final inspection for certification of final acceptance and final payment, complete the following. List exceptions in the request.
 - 1) Submit the final payment request with releases and supporting documentation not previously submitted and accepted. Include insurance certificates for products and completed operations where required.
 - 2) Submit an updated final statement, accounting for final additional changes to the Contract Sum.
 - 3) Submit a certified copy of the Architect's final inspection list of items to be completed or corrected, endorsed and dated by the Architect. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance and shall be endorsed and dated by the Architect.
 - 4) Submit final meter readings for utilities, a measured record of stored fuel, and similar data as of the date of Substantial Completion or when the Owner took possession of and assumed responsibility for corresponding elements of the Work.
 - 5) Submit consent of surety to final payment.
 - 6) Submit a final liquidated damages settlement statement.
 - 7) Submit evidence of final, continuing insurance coverage complying with insurance requirements.
- b. Reinspection Procedure: The Owner will reinspect the Work upon receipt of notice that the Work, including inspection list items from earlier inspections, has

been completed, except for items whose completion is delayed under circumstances acceptable to the Owner.

1) Upon completion of reinspection, the Owner will prepare a certificate of final acceptance. If the Work is incomplete, the Owner will advise the Contractor of Work that is incomplete or of obligations that have not been fulfilled but are required for final acceptance.

2) If necessary, reinspection will be repeated. Payment for the cost of services from the Owner's Representative for reinspection beyond one (1) Final Inspection will be the responsibility of the Contractor. Payment for these services will be deducted from final payment at a cost equal to the actual effort involved times the Architect/Consultant(s) current billing rates plus 110% of all expenses.

1.3 QUALITY ASSURANCE

- A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
 - 1. Structural Elements: When cutting and patching structural elements, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural element during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection
 - 2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.
 - 3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.
 - 4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities, and other construction affecting the Work.
 - 1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, and water-service piping; underground electrical services, and other utilities.

2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.

- B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Existing Utility Information: Furnish information to local utility and Owner that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.
- B. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.

3.3 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks.
- B. General: Engage a land surveyor to lay out the Work using accepted surveying practices.
1. Establish benchmarks and control points to set lines and levels at each story of construction and elsewhere as needed to locate each element of Project.
 2. Establish limits on use of Project site.
 3. Establish dimensions within tolerances indicated. Do not scale Drawings to obtain required dimensions.
 4. Inform installers of lines and levels to which they must comply.
 5. Check the location, level and plumb, of every major element as the Work progresses.
 6. Notify Owner when deviations from required lines and levels exceed allowable tolerances.

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7. Close site surveys with an error of closure equal to or less than the standard established by authorities having jurisdiction.
- C. Site Improvements: Locate and lay out site improvements, including pavements, grading, fill and topsoil placement, utility slopes, and rim and invert elevations.
- D. Building Lines and Levels: Locate and lay out control lines and levels for structures, building foundations, column grids, and floor levels, including those required for mechanical and electrical work. Transfer survey markings and elevations for use with control lines and levels. Level foundations and piers from two or more locations.
- E. Record Log: Maintain a log of layout control work. Record deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used. Make the log available for reference by Owner.

3.4 FIELD ENGINEERING

- A. Reference Points: Locate existing permanent benchmarks, control points, and similar reference points before beginning the Work. Preserve and protect permanent benchmarks and control points during construction operations.
- B. Benchmarks: Establish and maintain a minimum of two permanent benchmarks on Project site, referenced to data established by survey control points. Comply with authorities having jurisdiction for type and size of benchmark.
 1. Record benchmark locations, with horizontal and vertical data, on Project Record Documents.
- C. Certified Survey: On completion of foundation walls, major site improvements, and other work requiring field-engineering services, prepare a certified survey showing dimensions, locations, angles, and elevations of construction and sitework.
- D. Final Property Survey: Engage a land surveyor to prepare a final property survey showing significant features (real property) for Project. Include on the survey a certification, signed by land surveyor, that principal metes, bounds, lines, and levels of Project are accurately positioned as shown on the survey.
 1. Recording: At Substantial Completion, have the final property survey recorded by or with authorities having jurisdiction as the official "property survey."

3.5 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
 1. Make vertical work plumb and make horizontal work level.
 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
 3. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.

- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.
- F. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.
- G. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
- H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
 - a. 1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
 - b. 2. Allow for building movement, including thermal expansion and contraction.
 - c. 3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- I. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
- J. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.6 CUTTING AND PATCHING

- A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

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- B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.
- C. Temporary Support: Provide temporary support of work to be cut.
- D. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- E. Adjacent Occupied Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.
- F. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to occupied areas.
- G. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 - 3. Concrete: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 - 4. Excavating and Backfilling: Comply with requirements in applicable Sections where required by cutting and patching operations.
 - 5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 - 6. Proceed with patching after construction operations requiring cutting are complete.
- H. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.
 - 1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
 - 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
 - 3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall

coverings and replace with new materials, if necessary, to achieve uniform color and appearance.

4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.

5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.

- I. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.7 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.

1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.

2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F (27 deg C).

3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.

- B. Site: Maintain Project site free of waste materials and debris.

- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.

1. Remove liquid spills promptly.

2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.

- E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.

- F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

- G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways.

- H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

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- I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
- J. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.8 STARTING AND ADJUSTING

- A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.
- B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.
- C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

3.9 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
- B. Comply with manufacturer's written instructions for temperature and relative humidity.

END OF SECTION 017300

SECTION 01 77 00 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1. RELATED DOCUMENTS

- 1.1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

2. SUMMARY

- 2.1. A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:

- 2.1.1. Substantial Completion procedures.
- 2.1.2. Final completion procedures.
- 2.1.3. Warranties.
- 2.1.4. Final cleaning.
- 2.1.5. Repair of the Work.

2.2. Related Requirements:

- 2.2.1. Section 01 73 00 "Execution" for progress cleaning of Project site.

2.3. ACTION SUBMITTALS

- 2.3.1. Product Data: For cleaning agents.
- 2.3.2. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.
- 2.3.3. Certified List of Incomplete Items: Final submittal at Final Completion.

2.4. 1.4 CLOSEOUT SUBMITTALS

- 2.4.1. Certificates of Release: From authorities having jurisdiction.
- 2.4.2. Certificate of Insurance: For continuing coverage.
- 2.4.3. Field Report: For pest control inspection.

2.5. MAINTENANCE MATERIAL SUBMITTALS (ATTIC STOCK)

- 2.5.1. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections. Schedule shall include part/product number, manufacturer, contact info, and current cost. Contact SRIA Project Manager for current maintenance material submittal item requirements.

2.6. SUBSTANTIAL COMPLETION PROCEDURES

- 2.7. A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.

- 2.8. B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
 - 2.8.1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 - 2.8.2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, property surveys, and similar final record information.
 - 2.8.3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
 - 2.8.4. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number where applicable.
 - 2.8.5. Schedule of Maintenance Material Items: Prepare and submit schedule of maintenance material submittal items, including name and quantity of each item and name and number of related Specification Section. Obtain Architect's signature for receipt of submittals.
 - 2.8.6. Submit test/adjust/balance records.
 - 2.8.7. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
3. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
 - 3.1.1. Advise Owner of pending insurance changeover requirements.
 - 3.1.2. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
 - 3.1.3. Complete startup and testing of systems and equipment.
 - 3.1.4. Perform preventive maintenance on equipment used prior to Substantial Completion.
 - 3.1.5. Advise Owner of changeover in heat and other utilities.
 - 3.1.6. Participate with Owner in conducting inspection and walkthrough with local emergency responders.
 - 3.1.7. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
 - 3.1.8. Complete final cleaning requirements, including touchup painting.
 - 3.1.9. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
4. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of

unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.

4.1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

4.2. Results of completed inspection will form the basis of requirements for final completion.

5. FINAL COMPLETION PROCEDURES

5.1. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:

5.1.1. Submit a final Application for Payment according to Section 01 29 00 "Payment Procedures."

5.1.2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.

5.1.3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.

5.1.4. Submit pest-control final inspection report.

5.2. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.

5.2.1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

6. LIST OF INCOMPLETE ITEMS (PUNCH LIST)

6.1. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.

6.1.1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.

6.1.2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.

6.1.3. Include the following information at the top of each page:

6.1.3.1. Project name.

6.1.3.2. Date.

6.1.3.3. Name of Architect.

6.1.3.4. Name of Contractor.

6.1.3.5. Page number.

6.1.4. Submit list of incomplete items in the following format:

6.1.4.1. PDF electronic file. Architect will return annotated file.

7. SUBMITTAL OF PROJECT WARRANTIES

- 7.1. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.
- 7.2. Partial Occupancy: Submit properly executed warranties within 15 days of completion of designated portions of the Work that are completed and occupied or used by Owner during construction period by separate agreement with Contractor.
- 7.3. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.
 - 7.3.1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch (215-by-280-mm) paper.
 - 7.3.2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
 - 7.3.3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
- 7.4. Provide a scanned or digitally generated copy of the binder in PDF format on medium acceptable to the Owner.
 - 7.4.1. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
 - 1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:

SANTA ROSA ISLAND AUTHORITY LOBBY AND MEETING ROOM

- a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
- b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
- c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
- d. Remove tools, construction equipment, machinery, and surplus material from Project site.
- e. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
- f. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
- g. Sweep concrete floors broom clean in unoccupied spaces.
- h. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
- i. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish mirrors and glass, taking care not to scratch surfaces.
- j. Remove labels that are not permanent.
- k. Wipe surfaces of mechanical and electrical equipment, elevator equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
- l. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
- m. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
- n. Clean ducts, blowers, and coils if units were operated without filters during construction or that display contamination with particulate matter on inspection.
 - 1) Clean HVAC system in compliance with NADCA Standard. Provide written report on completion of cleaning.
- o. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
- p. Leave Project clean and ready for occupancy.

C. Pest Control: Comply with pest control requirements in Section 01 50 00 "Temporary Facilities and Controls." Prepare written report.

3.2 REPAIR OF THE WORK

A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.

B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.

SANTA ROSA ISLAND AUTHORITY LOBBY AND MEETING ROOM

1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.
3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
4. Replace burned-out bulbs, bulbs noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.

END OF SECTION 01 77 00

SANTA ROSA ISLAND AUTHORITY

1 VIA DE LUNA DR
PENSACOLA BEACH, FLORIDA

Basis of Design Luminaire Selections

REI Project No.: E25-33

Engineer

Ruby Engineering, Inc
3 West Garden Street, Suite 414
Pensacola, FL 32502
Phone (850) 455-5540

Engineer-of-Record
James J. Tatone, PE
Florida PE No. 57609

October 17, 2025



DIGITAL NAVIGATION

[Ordering Tree](#) [nLight Platform](#) [Photometrics](#) [Performance Data](#) [Drawings](#)

FEATURES & SPECIFICATIONS

INTENDED USE — The EPANL Series LED Edge-Lit Flat Panel provides a fully luminous appearance across the face of the lens. This provides a soft, glare-free solution that is visually comfortable within the space. Suitable for many lighting applications including schools, offices and other commercial spaces, retail, convenience stores, hospitals and healthcare facilities. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

CONSTRUCTION — This edgelit platform was built to last with an aluminum frame for strength and durability, the seamless frame prevents light leak in the corners. The PMMA light guide plate and lens resists yellowing and transmits light with superior efficacy. The satin white lens provides excellent shielding and fully luminous appearance. EPANL's low-profile design provides increased installation flexibility especially in restricted plenum spaces. The back plate includes integral T-bar clips for installation into 15/16" or 9/16" T-grid ceilings. Fixture may be recessed, suspended, surface box mounted or mounted in a hard-ceiling see accessories section for more information.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software.

Integrated Smart Sensor (nLight Air Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY+, which allows for simple sensor adjustment.

ELECTRICAL — Long-life LEDs, coupled with a high-efficiency driver, provide superior illumination for extended service life. See page 3 for detailed lumen maintenance information. 0-10V dimming driver, dims to 1% or 10% and contains non-isolated dimming leads.

LISTINGS — CSA Certified to meet US and Canadian standards. Tested to meet UL1598. Intended for indoor use only. Product is not to be stored in non-climate controlled spaces.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Damp location listed. IC rated. IP5X rated. Long nomenclature, configurable product is rated for NSF/ANSI Standard 2 - Light Fixture for Splash Zone and Non Food Zone. Tested in accordance with ISO 14644-1; suitable for ISO Class 5-9 positive and negative pressure clean rooms. Suitable for ambient temperatures from 32°F (0°C) to 77°F (25°C).

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Dimensions

	1x4	2x2	2x4
Length	47.72"	23.70"	47.72"
Width	11.85"	23.70"	23.70"
Depth	2.19"	2.19"	2.19"
Weight	13.9 lbs	7.4 lbs	15.1 lbs

* Base configurations; options may add weight

Catalog
Number

Notes

Type

EPANL LED

1'x4', 2'x2', and 2'x4'



Embed nLight controls today. Prepare for tomorrow.

Now

- User-friendly install
- Enhanced energy savings
- Code compliance

Tomorrow

- Scalability
- Space configuration
- Future-ready

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background***
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background***

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

EPANL LED Flat Panel



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Example: EPANL 2X4 4000LM 80CRI 35K MIN1 MVOLT E10WCP NLTAIR2 RIO

Series	Width and Length	Lumens	CRI	Color Temperature	Minimum Dimming Level ‡
EPANL LED Flat Panel	1x4 1'x4'	Standard Lumens:	80CRI 80 CRI	35K 3500K 40K 4000K	MIN10 Dims to 10% ‡ MIN1 Dims to 1% ‡
		1500LM 1500 Lumens			
		3000LM 3000 Lumens			
		4000LM 4000 Lumens			
		4800LM 4800 Lumens			
	2x2 2'x2'	2000LM 2000 Lumens			
		3400LM 3400 Lumens			
		4000LM 4000 Lumens			
	2x4 2'x4'	4800LM 4800 Lumens			
		3000LM 3000 Lumens			
		4000LM 4000 Lumens			
		4800LM 4800 Lumens			
		5400LM 5400 Lumens			
		6000LM 6000 Lumens			

Dimming ‡	Voltage	Step Level Dimming	Emergency Option
ZT Generic 0-10V Dimming	MVOLT 120-277V	(Blank) None	E10WCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ‡
EZT eldoLED 0-10V Dimming	120 120V		GTD Generator Transfer Device ‡
	277 277V		EMG for use with NLIGHT or NLTAIR2 on generator supply EM power ‡
	347 347V ‡		

Control Options	
Control Input nLight Wired: NLIGHT nLight enabled, no constant lumen management CL80 NLIGHT nLight enabled, constant lumen output 80%	Control nLight Wired: ‡ (blank) no control
nLight Wireless: NLTAIR2 nLight AIR Generation 2 enabled ‡	nLight Wireless: RIO nLight AIR Radio module without sensor ‡ RES7 nLight AIR control with PIR integral occupancy sensor and automatic dimming photocell ‡ RES7PDT nLight AIR control with PDT dual technology integral occupancy sensor and automatic dimming photocell ‡

Options	
GLR Fast-blowing fuse ‡	PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage wires ‡
GMF Slow-blowing fuse ‡	CP Chicago plenum ‡
PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit	NPLT Narrow Pallet
PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit	BDP Factory Installed Ballast Disconnect Plug
PWS1846 PWSLV Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge ‡	RRL_ RELOC®-ready luminaire ‡

NOTE: ‡ indicates option value has ordering restrictions. Please reference the Option Value Ordering Restrictions chart on the next page. Options are sorted alphanumerically.

EPANL LED Flat Panel

‡ Option Value Ordering Restrictions	
Option Value	Restriction
347	Not available with E10WCP, or GTD options.
Dimming	If NLIGHT or NLTAIR2 is specified, leave this section blank.
CP	Not available with nLight wired (NLIGHT), nLight wireless (NLTAIR2). Not available with PWS1836, PWS1846, PWS1856LV, or PWS1846 PWSLV.
E10WCP	Refer to Emergency Battery Estimated Lumen section for lumen estimation. Test Switch must be remote mounted or installed in an adjacent ceiling tile. When using pre-wire option, use PWS1846 or PWS1846 PWSLV.
EMG	Requires a connection to existing NLIGHT or NLTAIR2 network. Power is provided from separate nLight enabled fixture. When EMG is combined with NLTAIR2 see UL924 Sequence of Operation Chart on page 4.
GLR, GMF	Must specify voltage. 120 or 277, with GLR and GMF fusing.
GTD	Not available with sensor options or emergency battery options. Must specify voltage. Requires BSE labeling (see BSE Options chart below), voltage specific. Example: GTD BSE10.
	When using a pre-wire option, use PWS1846 or PWS1846 PWSLV.
MIN10	Not available with EZT, NLIGHT.
NLTAIR2	Only available with MIN1 minimum dimming level option.
PWS1846 PWSLV	Not available with GTD, nLight wired, nLight wireless, NLIGHT or NLTAIR2.
PWS1856LV	Not available with nLight wired, nLight wireless, NLIGHT, or NLTAIR2.
RES7, RES7PDT, RIO	See UL924 Sequence of Operation chart on page 4. Can be used as a normal power sensing device for nLight Air devices and luminaries with EM options.
RRL_	For ordering logic consult RRL 2013 .

Lumen Maintenance:

EPANL	Reported Lumen Maintenance	Forecasted Lumen Maintenance
SE LEDs	L90 @ 41k Hrs / L80 @ >54k Hrs / L70 @ >54k Hrs	L90 @ 41k Hrs / L80 @ 84k Hrs / L70 @ 134k Hrs

BSE Labeling Options	
BSE10	Drivers load transfer relay installed per manufacturer's instructions. Voltage, BGTD and BSE10 called out.
BSE14	One voltage fixture with driver load control relay supplied with one prewire (PWS option). Prewire wired for normal circuit, the control relay for emergency circuit left unconnected. Voltage, BGTD, BSE14 and prewire called out, in the description.

*For configurations with Reloc or two voltages an RFA modification is required.

EPAN LED Flat Panel

ACCESSORIES

Accessories: Order as separate catalog number.	
DGA14	Drywall grid adapter for 1x4 recessed fixture.
DGA22	Drywall grid adapter for 2x2 recessed fixture.
DGA24	Drywall grid adapter for 2x4 recessed fixture.
PANLEM E10WCP BKT CVR	Field installable kit includes 10 watt battery, bracket and cover ¹
PANLEM BKT CVR	Field installable kit bracket and cover only, 10W battery NOT included ¹
2X2SMKSH	2'x2' Surface Mount Troffer Kit
2X4SMKSH	2'x4' Surface Mount Troffer Kit
1X4SMKSH	1'x4' Surface Mount Troffer Kit
BDP U	Field Installable Ballast Disconnect Plug
PAC 2DNF 36	Panel Air Craft Kit, 2 cables with Y splitter, No Power Feed, 36 inches. Recommended for 1X4 or 2X2 Panel Fixtures only. ²
PAC 2DF 36	Panel Air Craft Kit, 2 cables with Y splitter, with Power Feed, 36 inches. Recommended for 1X4 or 2X2 Panel Fixtures only. ^{2,3}
PAC 4DNF 36	Panel Air Craft Kit, 4 cables, No Power Feed, 36 inches. Recommended for 2X4, 1X4 or 2X2 Panel Fixtures. ²
PAC 4DF 36	Panel Air Craft Kit, 4 cables, with Power Feed, 36 inches. Recommended for 2X4, 1X4 or 2X2 Panel Fixtures. ^{2,3}
PAC 2DNF 72	Panel Air Craft Kit, 2 cables with Y splitter, No Power Feed 72 inches. Recommended for 1X4 or 2X2 Panel Fixtures only. ²
PAC 2DF 72	Panel Air Craft Kit, 2 cables with Y splitter, with Power Feed, 72 inches. Recommended for 1X4 or 2X2 Panel Fixtures only. ^{2,3}
PAC 4DNF 72	Panel Air Craft Kit, 4 cables, No Power Feed, 72 inches. Recommended for 2X4, 1X4 or 2X2 Panel Fixtures. ²
PAC 4DF 72	Panel Air Craft Kit, 4 cables, with Power Feed, 72 inches. Recommended for 2X4, 1X4 or 2X2 Panel Fixtures. ^{2,3}

Emergency Battery Estimated Lumens

Use the formula below to estimate the delivered lumens in emergency mode

Estimated Lumens = 1.25 x P x LPW

P = Output power of emergency driver (10W for PS1055CP)

LPW = Lumen per watt rating of the luminaire.

SMKSH Accessory



Notes:

1. Test switch must be remote mounted or installed in an adjacent ceiling tile.
2. See Suspension Kits section below for additional detail.
3. For MVOLT only, not available with 347V

Emergency Battery Pack Options – Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter / 2 Hour Runtime
ILB CP10 A	10W	90	1200	
ILB CP10 HE AELR A	10W	90	1200	Title 20; Enabled with Self Testing, Automated Reporting (STAR)
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

UL 924 Response – nLight AIR Devices with EM Option

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

All the above are UL Listed products that are certified for field install external/remote to the fixture.

*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.

Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

Enabled with STAR

Emergency Lighting with Self-Testing Automated Reporting (STAR), enables self-testing and automated reporting to aid in life safety code compliance. Build your solution and choose your preferred deployment from Mobile STAR, where test data is logged in each individual unit and broadcast to the CLAIRITY+ app, or Connected STAR, where test data is logged in the STAR Gateway by IOTA® and emailed directly. **Leave the ladders, disruptions and written records behind with emergency lighting solutions with STAR!**

Life Safety Code NFPA 101 testing and reporting requirements for emergency lighting include:

- Testing for 30 seconds every 30 days
- Testing for 90 minutes once a year
- Record keeping and to report to the authority having local jurisdiction

MOBILE STAR

For small scale applications

CONNECTED STAR

For large scale applications

EPANL LED Flat Panel

Performance Data					
Model Number	DLC Classification	Lumens	Watts	LPW	DLC Product ID
EPANL 1X4 1500LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	1574	14	113	PII6VKUP
EPANL 1X4 1500LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	1637	14	117	P7MFGP4R
EPANL 1X4 3000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	2960	27	110	P5L7HREA
EPANL 1X4 3000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	3078	27	114	PICJQWDG
EPANL 1X4 4000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Not Listed	3811	37	104	
EPANL 1X4 4000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	3963	37	107	P4SKVRJP
EPANL 1X4 4800LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	4923	45	110	PR3K6SHH
EPANL 2X2 2000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	2071	19	110	P7I6D3WI
EPANL 2X2 2000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	2154	19	115	PPTL71HY
EPANL 2X2 3400LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	3428	30	113	PQAFPPJ6
EPANL 2X2 3400LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] 347 [ALL OPTIONS]	Not Listed	3428	30	113	
EPANL 2X2 3400LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	3566	30	118	PY8MM627
EPANL 2X2 3400LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] 347 [ALL OPTIONS]	Standard	3566	30	118	PMKTPCS2
EPANL 2X2 4000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Not Listed	3963	37	108	
EPANL 2X2 4000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	4121	37	110	PW0040LR
EPANL 2X2 4800LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Not Listed	4729	45	106	
EPANL 2X2 4800LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	4843	45	109	PS2AC19A
EPANL 2X4 3000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	3141	29	110	P4PIGUFW
EPANL 2X4 3000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	3266	29	115	PSPB7FBG
EPANL 2X4 4000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	4077	38	108	PG2MHOZE
EPANL 2X4 4000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	4240	38	113	PNKUCIIA
EPANL 2X4 4000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] 347 [ALL OPTIONS]	Not Listed	4240	38	113	
EPANL 2X4 4800LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	4998	45	111	P8FFEBQH
EPANL 2X4 4800LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] 347 [ALL OPTIONS]	Not Listed	4998	45	111	
EPANL 2X4 4800LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	5119	45	113	PL3AU798
EPANL 2X4 4800LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] 347 [ALL OPTIONS]	Not Listed	5119	45	113	
EPANL 2X4 5400LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	5546	49	113	PVKKX9GJ
EPANL 2X4 5400LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	5679	49	116	P31GEZNP
EPANL 2X4 6000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	6364	50	127	PMHI2SAT
EPANL 2X4 6000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] 347 [ALL OPTIONS]	Standard	6364	55	115	PD2QM1LA
EPANL 2X4 6000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	6548	50	131	P4H3UGFQ

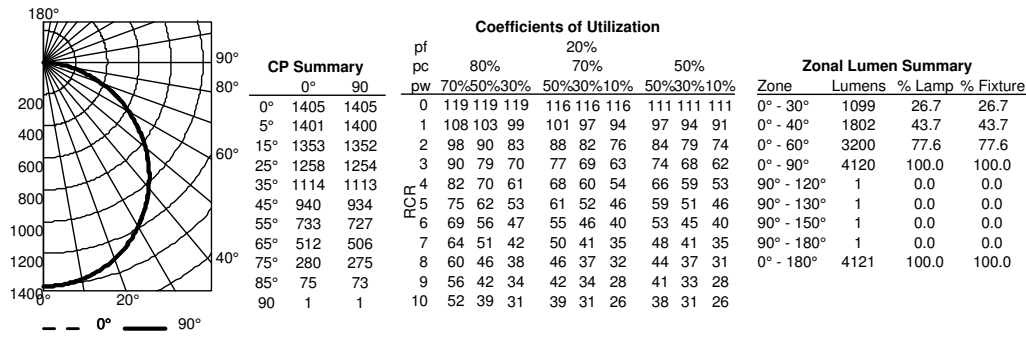


EPANL LED Flat Panel

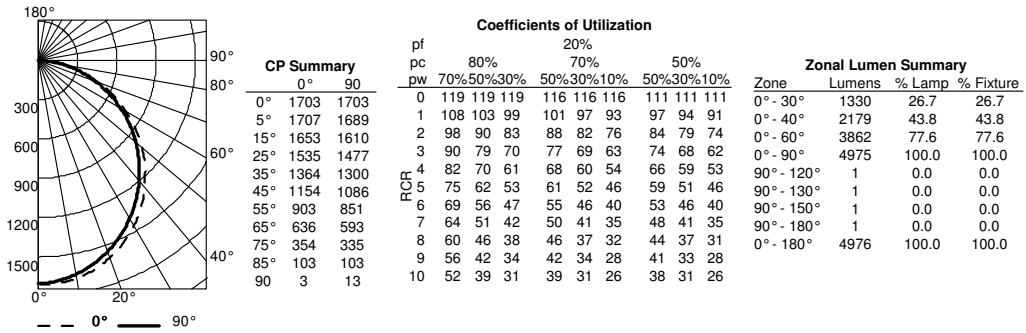
PHOTOMETRICS

Full Photometric data is available on Lithonia.acuitybrands.com

EPANL 2x2 4000LM 80CRI 40K, 4121 delivered lumens.

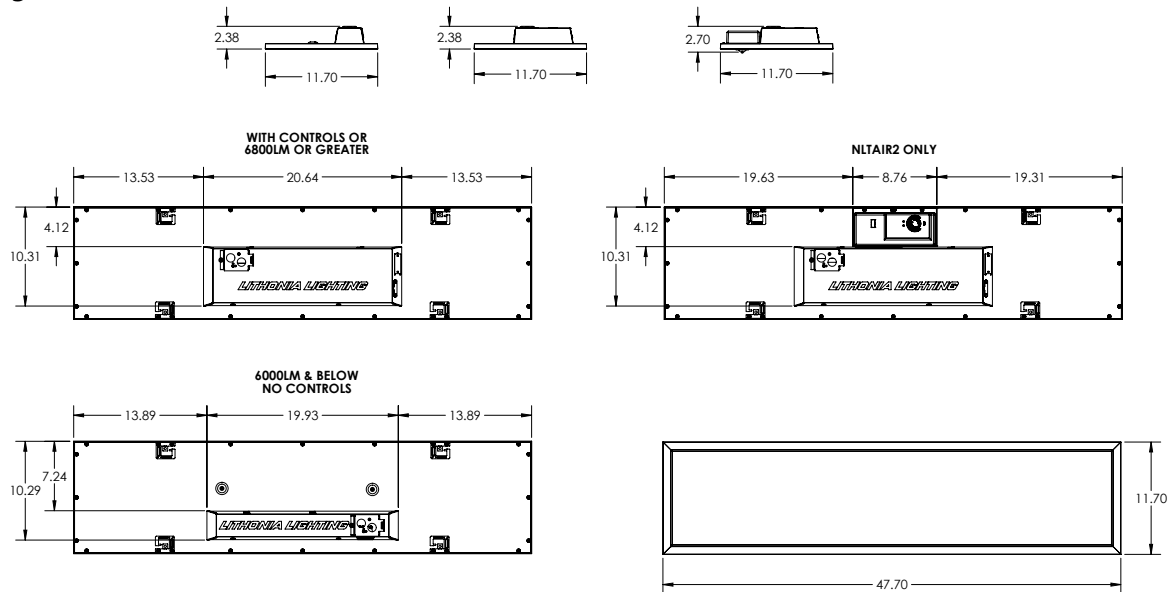


EPANL 2x4 4800LM 80CRI 40K, 5119 delivered lumens.

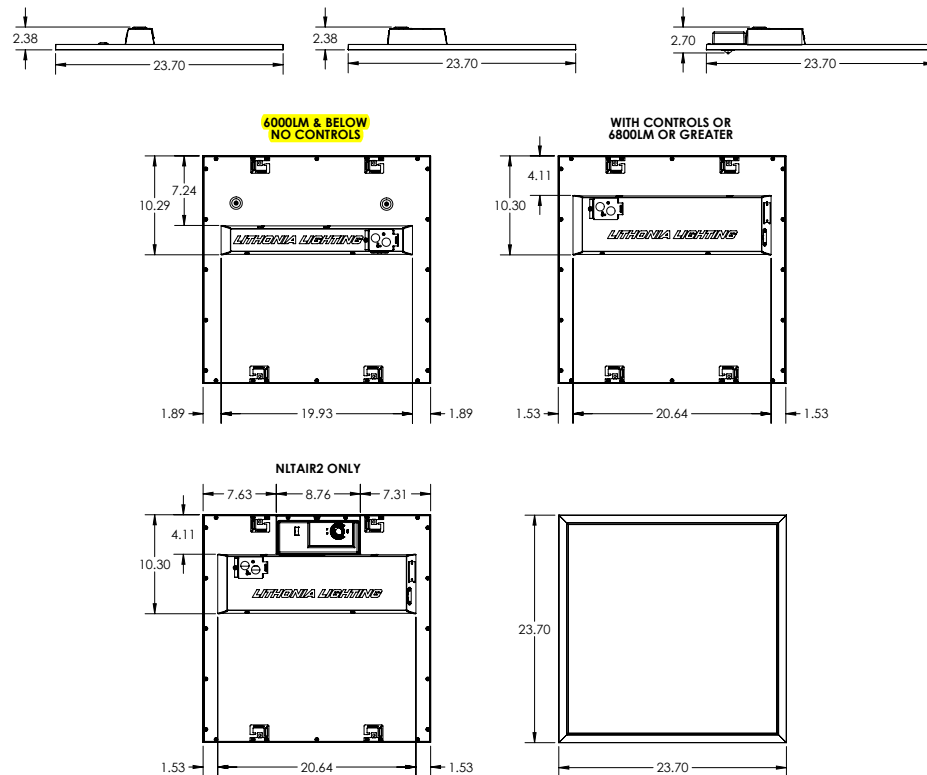


DIMENSIONS

1X4 Configurations



2X2 Configurations





DIGITAL NAVIGATION
[Ordering Tree](#) [nLight Platform](#) [Photometrics](#) [Performance Data](#) [Drawings](#)

FEATURES & SPECIFICATIONS

INTENDED USE — The EPANL Series LED Edge-Lit Flat Panel provides a fully luminous appearance across the face of the lens. This provides a soft, glare-free solution that is visually comfortable within the space. Suitable for many lighting applications including schools, offices and other commercial spaces, retail, convenience stores, hospitals and healthcare facilities. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

CONSTRUCTION — This edgelit platform was built to last with an aluminum frame for strength and durability, the seamless frame prevents light leak in the corners. The PMMA light guide plate and lens resists yellowing and transmits light with superior efficacy. The satin white lens provides excellent shielding and fully luminous appearance. EPANL's low-profile design provides increased installation flexibility especially in restricted plenum spaces. The back plate includes integral T-bar clips for installation into 15/16" or 9/16" T-grid ceilings. Fixture may be recessed, suspended, surface box mounted or mounted in a hard-ceiling see accessories section for more information.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software.

Integrated Smart Sensor (nLight Air Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY+, which allows for simple sensor adjustment.

ELECTRICAL — Long-life LEDs, coupled with a high-efficiency driver, provide superior illumination for extended service life. See page 3 for detailed lumen maintenance information. 0-10V dimming driver, dims to 1% or 10% and contains non-isolated dimming leads.

LISTINGS — CSA Certified to meet US and Canadian standards. Tested to meet UL1598. Intended for indoor use only. Product is not to be stored in non-climate controlled spaces.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Damp location listed. IC rated. IP5X rated. Long nomenclature, configurable product is rated for NSF/ANSI Standard 2 - Light Fixture for Splash Zone and Non Food Zone. Tested in accordance with ISO 14644-1; suitable for ISO Class 5-9 positive and negative pressure clean rooms. Suitable for ambient temperatures from 32°F (0°C) to 77°F (25°C).

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Dimensions

	1x4	2x2	2x4
Length	47.72"	23.70"	47.72"
Width	11.85"	23.70"	23.70"
Depth	2.19"	2.19"	2.19"
Weight	13.9 lbs	7.4 lbs	15.1 lbs

* Base configurations; options may add weight

Catalog Number
Notes
Type

EPANL LED

1'x4', 2'x2', and 2'x4'



Embed nLight controls today. Prepare for tomorrow.

Now	Tomorrow
User-friendly install	Scalability
Enhanced energy savings	Space configuration
Code compliance	Future-ready

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background***
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background***

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

EPANL LED Flat Panel



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Example: EPANL 2X4 4000LM 80CRI 35K MIN1 MVOLT E10WCP NLTAIR2 RIO

Series	Width and Length	Lumens	CRI	Color Temperature	Minimum Dimming Level ‡
EPANL LED Flat Panel	1x4 1'x4'	Standard Lumens:	80CRI 80 CRI	35K 3500K 40K 4000K	MIN10 Dims to 10% ‡ MIN1 Dims to 1% ‡
		1500LM 1500 Lumens			
		3000LM 3000 Lumens			
		4000LM 4000 Lumens			
		4800LM 4800 Lumens			
	2x2 2'x2'	2000LM 2000 Lumens			
		3400LM 3400 Lumens			
		4000LM 4000 Lumens			
	2x4 2'x4'	4800LM 4800 Lumens			
		3000LM 3000 Lumens			
		4000LM 4000 Lumens			
		4800LM 4800 Lumens			
		5400LM 5400 Lumens			
		6000LM 6000 Lumens			

Dimming ‡	Voltage	Step Level Dimming	Emergency Option
ZT Generic 0-10V Dimming	MVOLT 120-277V	(Blank) None	E10WCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ‡
EZT eldoLED 0-10V Dimming	120 120V		GTD Generator Transfer Device ‡
	277 277V		EMG for use with NLIGHT or NLTAIR2 on generator supply EM power ‡
	347 347V ‡		

Control Options	
Control Input nLight Wired: NLIGHT nLight enabled, no constant lumen management CL80 NLIGHT nLight enabled, constant lumen output 80%	Control nLight Wired: ‡ (blank) no control
nLight Wireless: NLTAIR2 nLight AIR Generation 2 enabled ‡	nLight Wireless: RIO nLight AIR Radio module without sensor ‡ RES7 nLight AIR control with PIR integral occupancy sensor and automatic dimming photocell ‡ RES7PDT nLight AIR control with PDT dual technology integral occupancy sensor and automatic dimming photocell ‡

Options	
GLR Fast-blowing fuse ‡	PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage wires ‡
GMF Slow-blowing fuse ‡	CP Chicago plenum ‡
PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit	NPLT Narrow Pallet
PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit	BDP Factory Installed Ballast Disconnect Plug
PWS1846 PWSLV Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge ‡	RRL_ RELOC®-ready luminaire ‡

NOTE: ‡ indicates option value has ordering restrictions. Please reference the Option Value Ordering Restrictions chart on the next page. Options are sorted alphabetically.

EPANL LED Flat Panel

‡ Option Value Ordering Restrictions	
Option Value	Restriction
347	Not available with E10WCP, or GTD options.
Dimming	If NLIGHT or NLTAIR2 is specified, leave this section blank.
CP	Not available with nLight wired (NLIGHT), nLight wireless (NLTAIR2). Not available with PWS1836, PWS1846, PWS1856LV, or PWS1846 PWSLV.
E10WCP	Refer to Emergency Battery Estimated Lumen section for lumen estimation. Test Switch must be remote mounted or installed in an adjacent ceiling tile. When using pre-wire option, use PWS1846 or PWS1846 PWSLV.
EMG	Requires a connection to existing NLIGHT or NLTAIR2 network. Power is provided from separate nLight enabled fixture. When EMG is combined with NLTAIR2 see UL924 Sequence of Operation Chart on page 4.
GLR, GMF	Must specify voltage. 120 or 277, with GLR and GMF fusing.
GTD	Not available with sensor options or emergency battery options. Must specify voltage. Requires BSE labeling (see BSE Options chart below), voltage specific. Example: GTD BSE10. When using a pre-wire option, use PWS1846 or PWS1846 PWSLV.
MIN10	Not available with EZT, NLIGHT.
NLTAIR2	Only available with MIN1 minimum dimming level option.
PWS1846 PWSLV	Not available with GTD, nLight wired, nLight wireless, NLIGHT or NLTAIR2.
PWS1856LV	Not available with nLight wired, nLight wireless, NLIGHT, or NLTAIR2.
RES7, RES7PDT, RIO	See UL924 Sequence of Operation chart on page 4. Can be used as a normal power sensing device for nLight Air devices and luminaries with EM options.
RRL	For ordering logic consult RRL 2013 .

Lumen Maintenance:

EPANL	Reported Lumen Maintenance	Forecasted Lumen Maintenance
SE LEDs	L90 @ 41k Hrs / L80 @ >54k Hrs / L70 @ >54k Hrs	L90 @ 41k Hrs / L80 @ 84k Hrs / L70 @ 134k Hrs

BSE Labeling Options	
BSE10	Drivers load transfer relay installed per manufacturer's instructions. Voltage, BGTD and BSE10 called out.
BSE14	One voltage fixture with driver load control relay supplied with one prewire (PWS option). Prewire wired for normal circuit, the control relay for emergency circuit left unconnected. Voltage, BGTD, BSE14 and prewire called out, in the description.

*For configurations with Reloc or two voltages an RFA modification is required.

ACCESSORIES

Accessories: Order as separate catalog number.	
DGA14	Drywall grid adapter for 1x4 recessed fixture.
DGA22	Drywall grid adapter for 2x2 recessed fixture.
DGA24	Drywall grid adapter for 2x4 recessed fixture.
PANLEM E10WCP BKT CVR	Field installable kit includes 10 watt battery, bracket and cover¹
PANLEM BKT CVR	Field installable kit bracket and cover only, 10W battery NOT included ¹
2X2SMKSH	2'x2' Surface Mount Troffer Kit
2X4SMKSH	2'x4' Surface Mount Troffer Kit
1X4SMKSH	1'x4' Surface Mount Troffer Kit
BDP U	Field Installable Ballast Disconnect Plug
PAC 2DNF 36	Panel Air Craft Kit, 2 cables with Y splitter, No Power Feed, 36 inches. Recommended for 1X4 or 2X2 Panel Fixtures only. ²
PAC 2DF 36	Panel Air Craft Kit, 2 cables with Y splitter, with Power Feed, 36 inches. Recommended for 1X4 or 2X2 Panel Fixtures only. ^{2,3}
PAC 4DNF 36	Panel Air Craft Kit, 4 cables, No Power Feed, 36 inches. Recommended for 2X4, 1X4 or 2X2 Panel Fixtures. ²
PAC 4DF 36	Panel Air Craft Kit, 4 cables, with Power Feed, 36 inches. Recommended for 2X4, 1X4 or 2X2 Panel Fixtures. ^{2,3}
PAC 2DNF 72	Panel Air Craft Kit, 2 cables with Y splitter, No Power Feed 72 inches. Recommended for 1X4 or 2X2 Panel Fixtures only. ²
PAC 2DF 72	Panel Air Craft Kit, 2 cables with Y splitter, with Power Feed, 72 inches. Recommended for 1X4 or 2X2 Panel Fixtures only. ^{2,3}
PAC 4DNF 72	Panel Air Craft Kit, 4 cables, No Power Feed, 72 inches. Recommended for 2X4, 1X4 or 2X2 Panel Fixtures. ²
PAC 4DF 72	Panel Air Craft Kit, 4 cables, with Power Feed, 72 inches. Recommended for 2X4, 1X4 or 2X2 Panel Fixtures. ^{2,3}

Emergency Battery Estimated Lumens

Use the formula below to estimate the delivered lumens in emergency mode

$$\text{Estimated Lumens} = 1.25 \times P \times LPW$$

P = Output power of emergency driver (10W for PS1055CP)

LPW = Lumen per watt rating of the luminaire.

SMKSH Accessory



Notes:

1. Test switch must be remote mounted or installed in an adjacent ceiling tile.
2. See Suspension Kits section below for additional detail.
3. For MVOLT only, not available with 347V

Emergency Battery Pack Options – Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter / 2 Hour Runtime
ILB CP10 A	10W	90	1200	
ILB CP10 HE AELR A	10W	90	1200	Title 20; Enabled with Self Testing, Automated Reporting (STAR)
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.

*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.

Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

UL 924 Response – nLight AIR Devices with EM Option

The below information applies to all nLight AIR devices with an EM option.

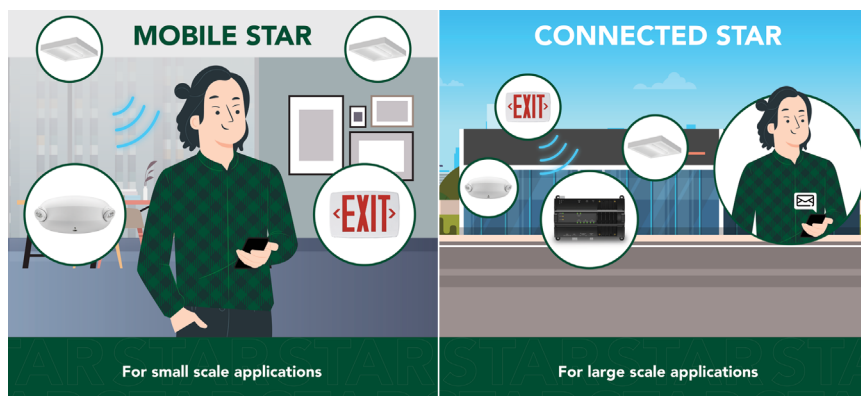
- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

Enabled with STAR

Emergency Lighting with Self-Testing Automated Reporting (STAR), enables self-testing and automated reporting to aid in life safety code compliance. Build your solution and choose your preferred deployment from Mobile STAR, where test data is logged in each individual unit and broadcast to the CLAIRITY+ app, or Connected STAR, where test data is logged in the STAR Gateway by IOTA® and emailed directly. **Leave the ladders, disruptions and written records behind with emergency lighting solutions with STAR!**

Life Safety Code NFPA 101 testing and reporting requirements for emergency lighting include:

- Testing for 30 seconds every 30 days
- Testing for 90 minutes once a year
- Record keeping and to report to the authority having local jurisdiction



EPANL LED Flat Panel

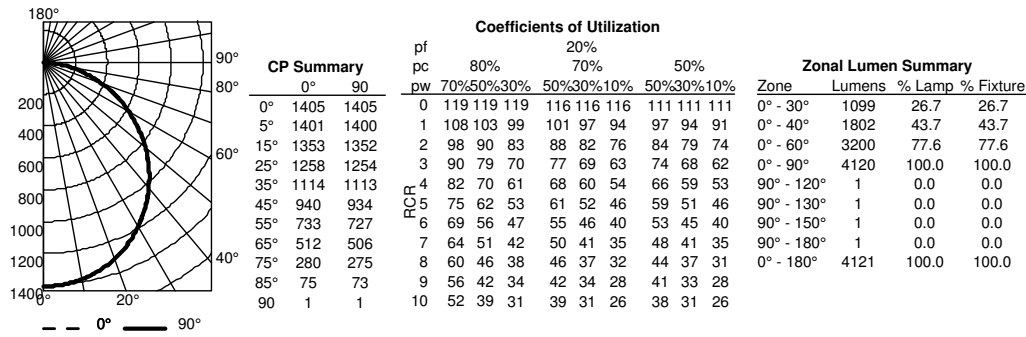
Performance Data					
Model Number	DLC Classification	Lumens	Watts	LPW	DLC Product ID
EPANL 1X4 1500LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	1574	14	113	PII6VKUP
EPANL 1X4 1500LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	1637	14	117	P7MFGP4R
EPANL 1X4 3000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	2960	27	110	P5L7HREA
EPANL 1X4 3000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	3078	27	114	PICJQWDG
EPANL 1X4 4000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Not Listed	3811	37	104	
EPANL 1X4 4000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	3963	37	107	P4SKVRJP
EPANL 1X4 4800LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	4923	45	110	PR3K6SHH
EPANL 2X2 2000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	2071	19	110	P7I6D3WI
EPANL 2X2 2000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	2154	19	115	PPTL71HY
EPANL 2X2 3400LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	3428	30	113	PQAFPPJ6
EPANL 2X2 3400LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] 347 [ALL OPTIONS]	Not Listed	3428	30	113	
EPANL 2X2 3400LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	3566	30	118	PY8MM627
EPANL 2X2 3400LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] 347 [ALL OPTIONS]	Standard	3566	30	118	PMKTPCS2
EPANL 2X2 4000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Not Listed	3963	37	108	
EPANL 2X2 4000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	4121	37	110	PW0040LR
EPANL 2X2 4800LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Not Listed	4729	45	106	
EPANL 2X2 4800LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	4843	45	109	PS2AC19A
EPANL 2X4 3000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	3141	29	110	P4PIGUFW
EPANL 2X4 3000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	3266	29	115	PSPB7FBG
EPANL 2X4 4000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	4077	38	108	PG2MHOZE
EPANL 2X4 4000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	4240	38	113	PNKUCIIA
EPANL 2X4 4000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] 347 [ALL OPTIONS]	Not Listed	4240	38	113	
EPANL 2X4 4800LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	4998	45	111	P8FFBQHQ
EPANL 2X4 4800LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] 347 [ALL OPTIONS]	Not Listed	4998	45	111	
EPANL 2X4 4800LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	5119	45	113	PL3AU798
EPANL 2X4 4800LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] 347 [ALL OPTIONS]	Not Listed	5119	45	113	
EPANL 2X4 5400LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	5546	49	113	PVKKX9GJ
EPANL 2X4 5400LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	5679	49	116	P31GEZNP
EPANL 2X4 6000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	6364	50	127	PMHI2SAT
EPANL 2X4 6000LM 80CRI 35K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] 347 [ALL OPTIONS]	Standard	6364	55	115	PD2QM1LA
EPANL 2X4 6000LM 80CRI 40K [MIN1, MIN10] [BLANK, ZT, EZT, NLIGHT] [MVOLT, 120, 277] [ALL OPTIONS]	Standard	6548	50	131	P4H3UGFQ

EPANL LED Flat Panel

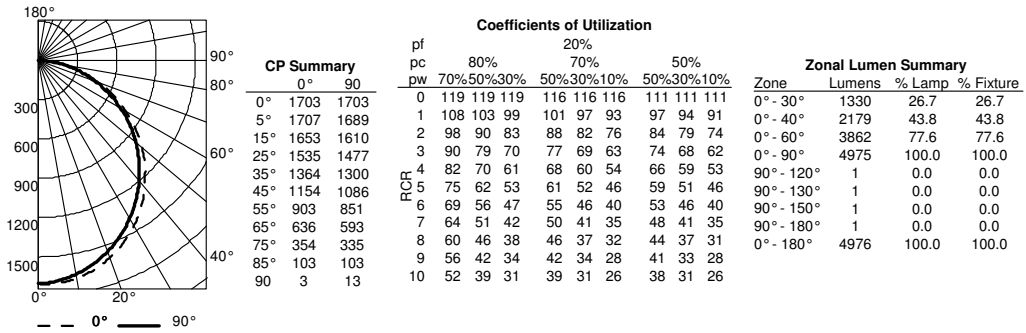
PHOTOMETRICS

Full Photometric data is available on Lithonia.acuitybrands.com

EPANL 2x2 4000LM 80CRI 40K, 4121 delivered lumens.



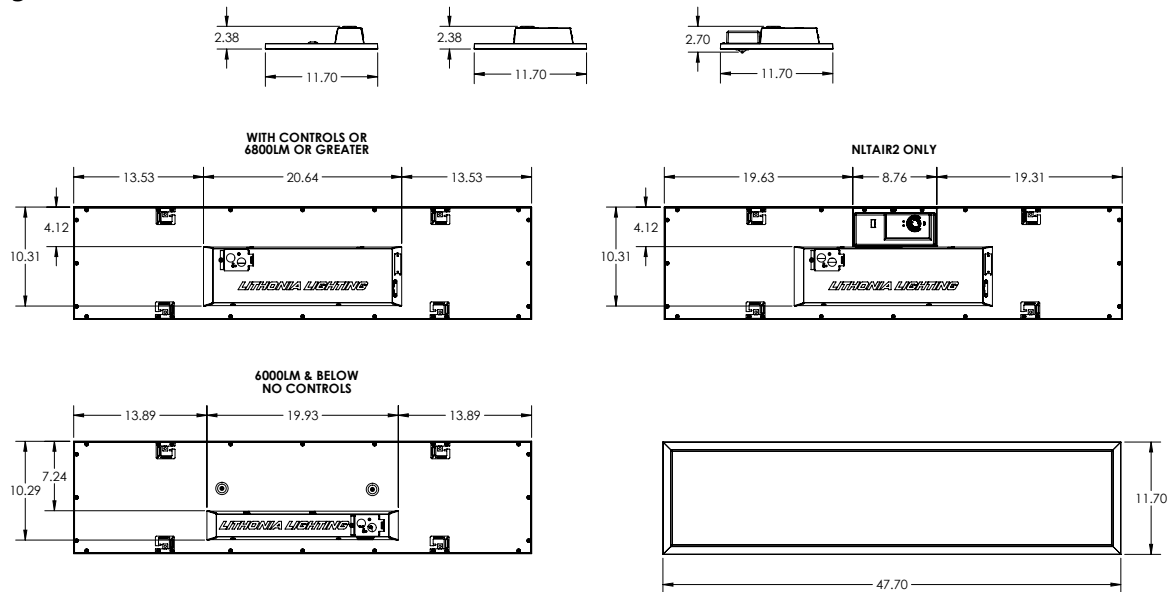
EPANL 2x4 4800LM 80CRI 40K, 5119 delivered lumens.



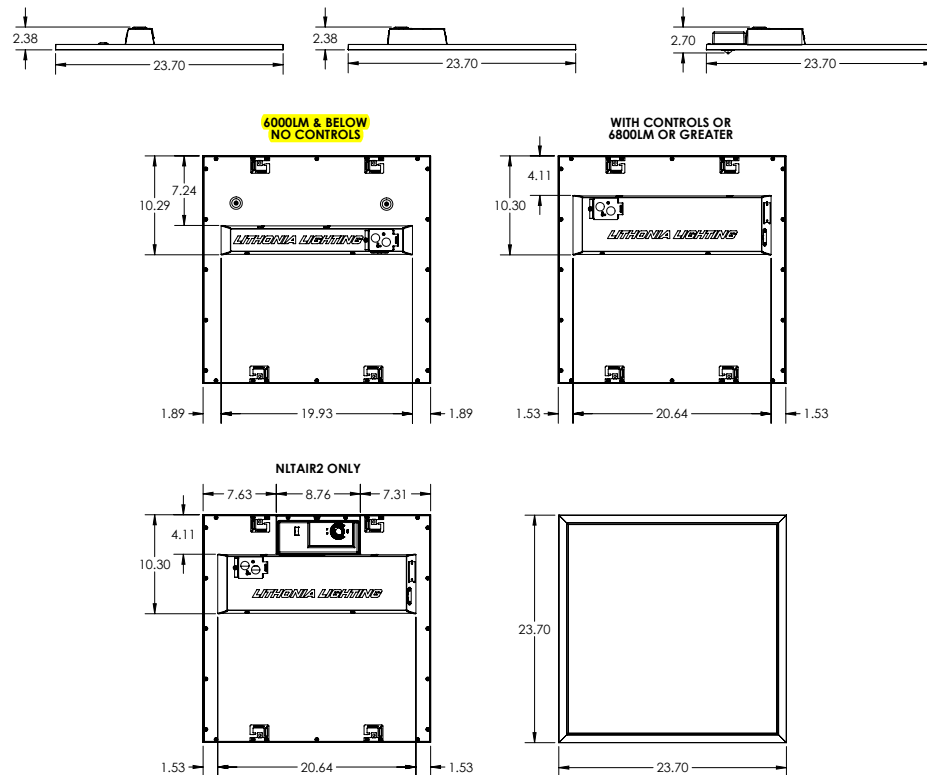
EPANL LED Flat Panel

DIMENSIONS

1X4 Configurations



2X2 Configurations





FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment.

Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step SDCM; 80 CRI minimum.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

70% lumen maintenance at 50,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Damp location standard (wet location, covered ceiling optional). ENERGY STAR® certified product.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

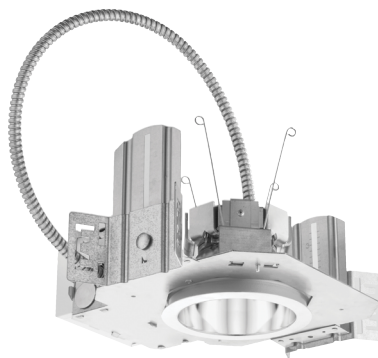
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Catalog Number
Notes
Type



LDN4

4" OPEN

Non-IC

New Construction Downlight



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN4 35/15 L04AR LSS MVOLT EZ1

LDN4							
Series	Color temperature	Lumens ¹	Aperture/Trim Color		Finish	Voltage	
LDN4 4" round	27/ 2700K	05 500 lumens	L04 Downlight LW4 Wallwash	AR Clear	LSS Semi-specular	MVOLT Multi-volt 120 120V 277 277V 347 ³ 347V	
	30/ 3000K	10 1000 lumens		WR ² White	LD Matte diffuse		
	35/ 3500K	15 1500 lumens		BR ² Black	LS Specular		
	40/ 4000K	20 2000 lumens					
	50/ 5000K	25 2500 lumens					
		30 3000 lumens					

Driver	Options	
GZ10 0-10V driver dims to 10%	SF ⁴	Single fuse
GZ1 0-10V driver dims to 1%	TRW ⁵	White painted flange
EZ10 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	TRBL ⁵	Black painted flange
	EL ⁴	Emergency battery pack with integral test switch
	ELR ⁴	Emergency battery pack with remote test switch
	ELSD	Emergency battery pack with self-diagnostics, integral test switch
	ELRSD	Emergency battery pack with self-diagnostics, remote test switch
EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	E10WCP	Emergency battery pack, 10W Constant Power, CA Title 20 compliant
	NPP16D ⁶	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).
	NPP16DER ⁶	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.
	NPS80EZ ⁶	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).
	NPS80EZER ⁶	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.
	N80 ⁷	nLight™ Lumen Compensation
	HAO ⁸	High ambient option (40°C)
	CP ⁹	Chicago Plenum
	WL	Wet Location
	RRL	RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S.
	USPOM	US point of manufacture

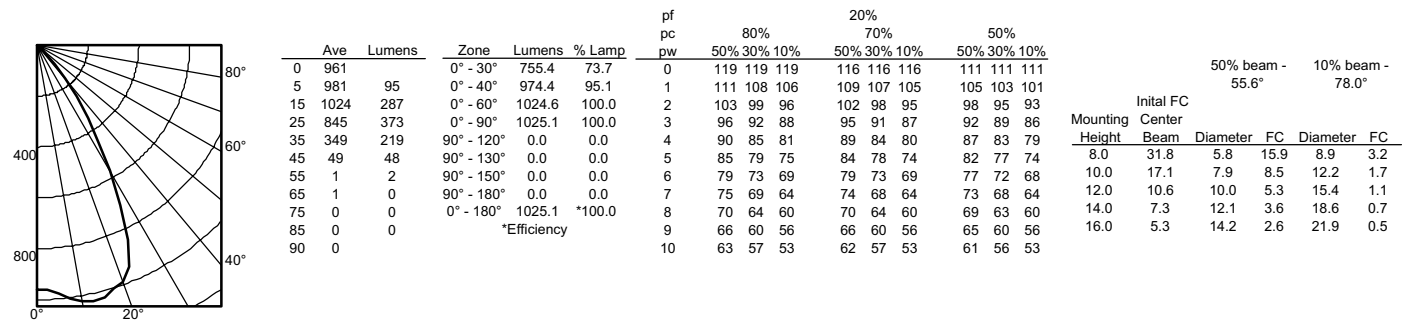
Notes

- Overall height varies based on lumen package; refer to dimensional chart on page 3.
- Not available with finishes.
- Not available with emergency options.
- Must specify voltage 120V or 277V.
- Available with clear (AR) reflector only.
- Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ10 and EZ1 drivers.
- Fixture height is 5-11/16" for all lumen packages with HAO.
- Must specify voltage for 3000lm.

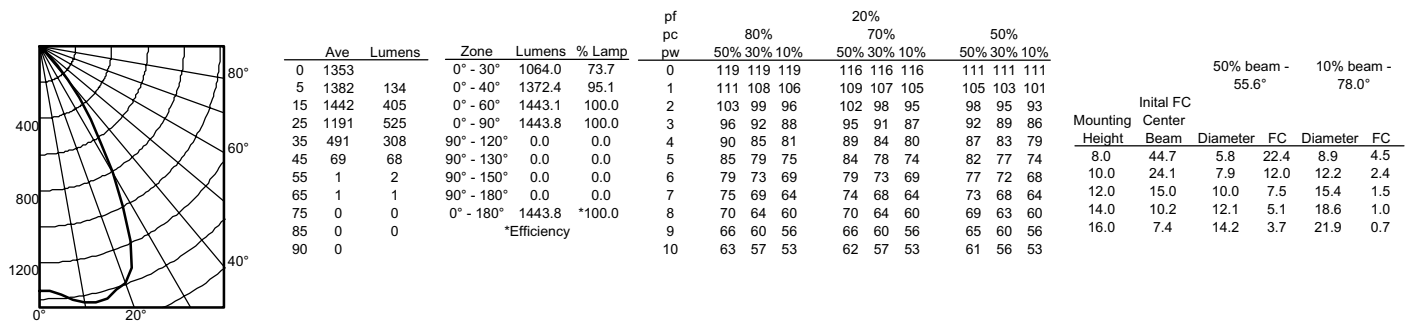
PHOTOMETRY

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
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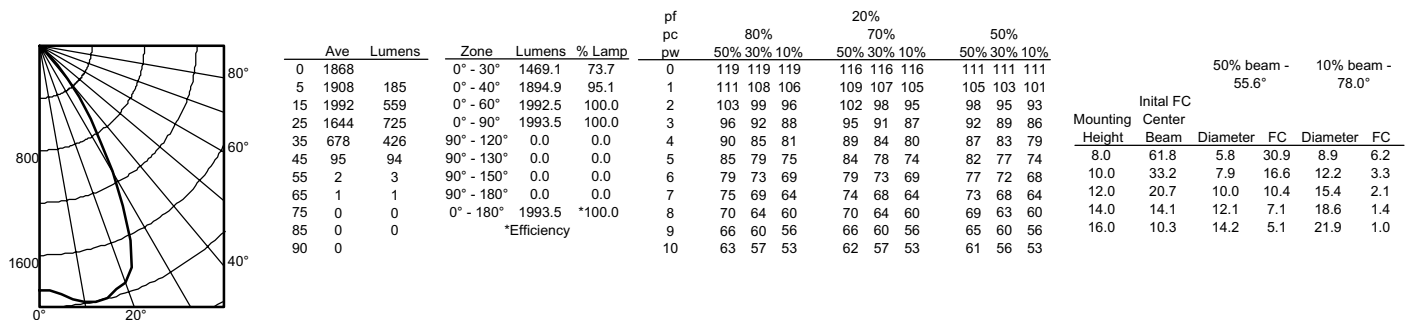
LDN4 35/10 L04AR, input watts: 12.69, delivered lumens: 1025.1, LM/W = 80.78, spacing criterion at 0= 1.04, test no. ISF 30712P31.



LDN4 35/15 L04AR, input watts: 20.44, delivered lumens: 1443.8, LM/W = 70.63, spacing criterion at 0= 1.04, test no. ISF 30712P28.



LDN4 35/20 L04AR, input watts: 22.52, delivered lumens: 1993.5, LM/W = 88.52, spacing criterion at 0= 1.04, test no. ISF 30712P25.



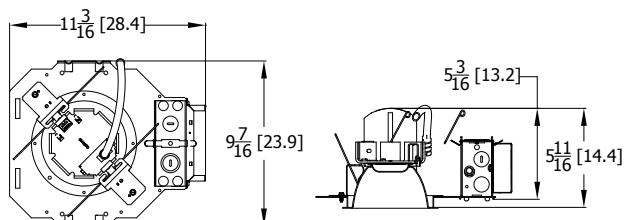
Accessories: Order as separate catalog numbers (shipped separately).

SCA4 Sloped ceiling adapter.
Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Refer to [TECH-190](#).

LDN4

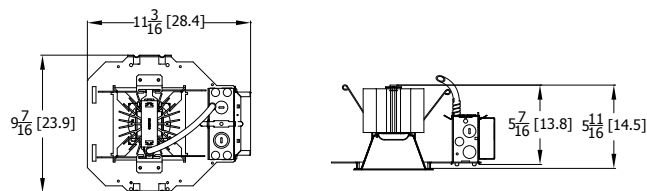
* All dimensions are inches (centimeters) unless otherwise noted.

LDN4 1500 LUMEN



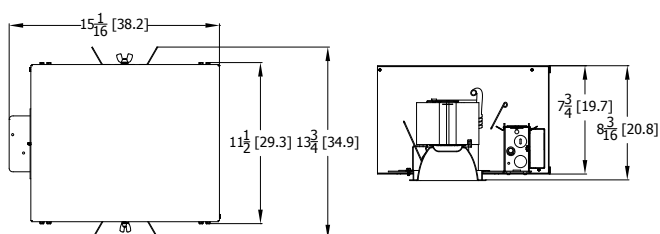
Aperture: 4-5/16 (11)
 Ceiling Opening: 5-1/8 (13)
 Overlap trim: 5-7/16 (13.8)

LDN4 3000 LUMEN



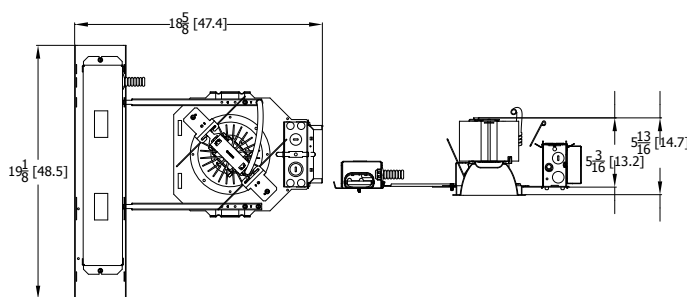
Aperture: 4-5/16 (11) Square
 Ceiling Opening: 5-1/8 (13) Square
 Overlap trim: 5-7/16 (13.8) Square

LDN4 CP



Aperture: 4-5/16 (11)
 Ceiling Opening: 5-1/8 (13)
 Overlap trim: 5-7/16 (13.8)

LDN4 EL-ELR



Aperture: 4-5/16 (11)
 Ceiling Opening: 5-1/8 (13)
 Overlap trim: 5-7/16 (13.8)

LDN4			
Target Lumen	Lumens @ 3500K	Wattage	LPW
500	688.8	8.5	80.8
1000	1025.1	12.7	80.7
1500	1443.8	20.4	70.8
2000	1993.5	22.5	88.6
2500	2659.0	30.1	88.3
3000	2860.1	34.8	82.2

LUMEN OUTPUT MULTIPLIERS - CCT					
	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

EL/ELR AVAILABILITY/COMPATIBILITY - INITIAL LUMENS			
Lumen package	Watts	Initial lumens EL/ELR	Emergency LED driver
500	12	500	PS1050
1000	18	575	PS1050
1500	26	640	PS1050
2000	35	690	PS1050

LUMEN OUTPUT MULTIPLIERS - FINISH			
	Clear (AR)	White (WR)	Black (BR)
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.



FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs. Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment. Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step SDCM; 80 CRI minimum.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

70% lumen maintenance at 50,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Damp location standard (wet location, covered ceiling optional). ENERGY STAR® certified product.

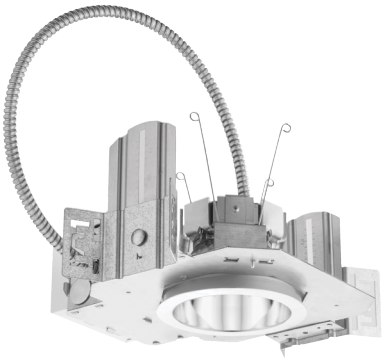
WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Catalog Number
Notes
Type



LDN4

4" OPEN
Non-IC

New Construction Downlight



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN4 35/15 L04AR LSS MVOLT EZ1

LDN4					
Series	Color temperature	Lumens ¹	Aperture/Trim Color		Voltage
LDN4 4" round	27/ 2700K	05 500 lumens	L04 Downlight	AR Clear	MVOLT Multi-volt
	30/ 3000K	10 1000 lumens	LW4 Wallwash	WR ² White	120 120V
	35/ 3500K	15 1500 lumens		BR ² Black	277 277V
	40/ 4000K	20 2000 lumens			347 ³ 347V
	50/ 5000K	25 2500 lumens			
		30 3000 lumens			

Driver	Options	
GZ10 0-10V driver dims to 10%	SF ⁴	Single fuse
GZ1 0-10V driver dims to 1%	TRW ⁵	White painted flange
EZ10 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	TRBL ⁵	Black painted flange
	EL ⁴	Emergency battery pack with integral test switch
	ELR ⁴	Emergency battery pack with remote test switch
	ELSD	Emergency battery pack with self-diagnostics, integral test switch
	ELRSD	Emergency battery pack with self-diagnostics, remote test switch
EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	E10WCP	Emergency battery pack, 10W Constant Power, CA Title 20 compliant
	NPP16D ⁶	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).
	NPP16DER ⁶	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.
	NPS80EZ ⁶	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).
	NPS80EZER ⁶	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.
	N80 ⁷	nLight™ Lumen Compensation
	HAO ⁸	High ambient option (40°C)
	CP ⁹	Chicago Plenum
	WL	Wet Location
	RRL	RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S.
	USPOM	US point of manufacture

Notes

- 1 Overall height varies based on lumen package; refer to dimensional chart on page 3.

2 Not available with finishes.

3 Not available with emergency options.

4 Must specify voltage 120V or 277V.

5 Available with clear (AR) reflector only.
- 6 Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.

7 Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ10 and EZ1 drivers.

8 Fixture height is 5-11/16" for all lumen packages with HAO.

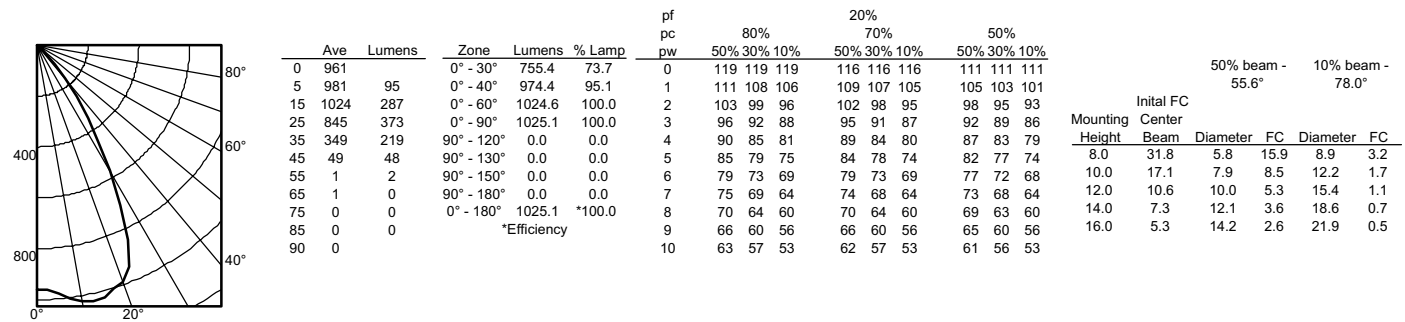
9 Must specify voltage for 3000lm.

LDN4

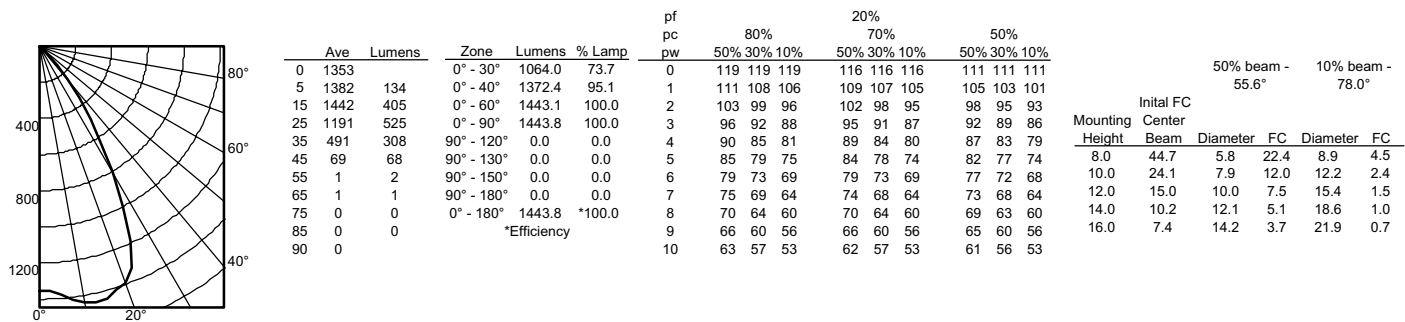
PHOTOMETRY

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
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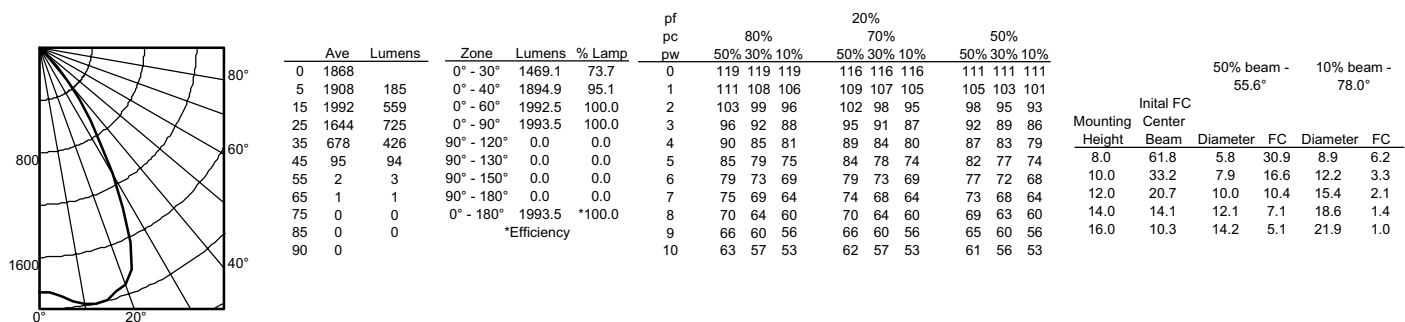
LDN4 35/10 L04AR, input watts: 12.69, delivered lumens: 1025.1, LM/W = 80.78, spacing criterion at 0= 1.04, test no. ISF 30712P31.



LDN4 35/15 L04AR, input watts: 20.44, delivered lumens: 1443.8, LM/W = 70.63, spacing criterion at 0= 1.04, test no. ISF 30712P28.



LDN4 35/20 L04AR, input watts: 22.52, delivered lumens: 1993.5, LM/W = 88.52, spacing criterion at 0= 1.04, test no. ISF 30712P25.



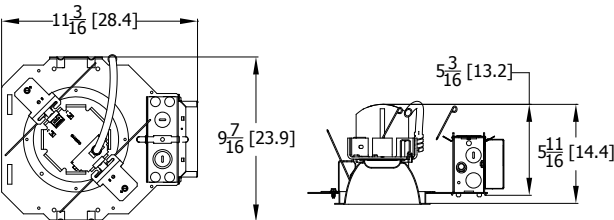
Accessories: Order as separate catalog numbers (shipped separately).

SCA4 Sloped ceiling adapter.
Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Refer to [TECH-190](#).

LDN4

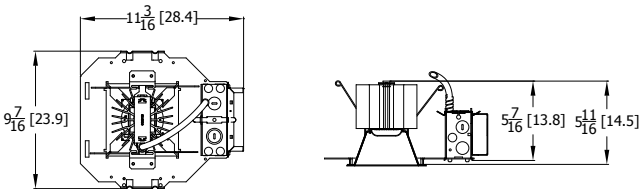
* All dimensions are inches (centimeters) unless otherwise noted.

LDN4 1500 LUMEN



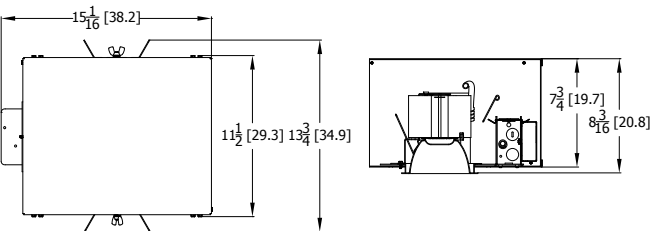
Aperture: 4-5/16 (11)
Ceiling Opening: 5-1/8 (13)
Overlap trim: 5-7/16 (13.8)

LDN4 3000 LUMEN



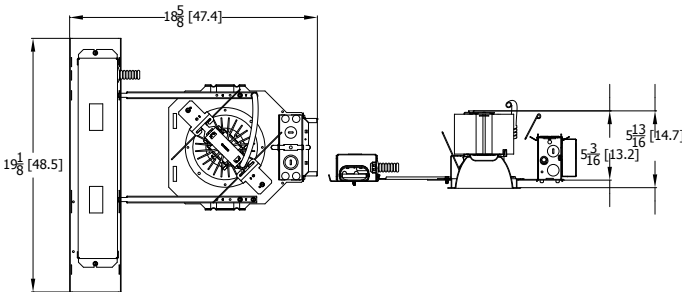
Aperture: 4-5/16 (11) Square
Ceiling Opening: 5-1/8 (13) Square
Overlap trim: 5-7/16 (13.8) Square

LDN4 CP



Aperture: 4-5/16 (11)
Ceiling Opening: 5-1/8 (13)
Overlap trim: 5-7/16 (13.8)

LDN4 EL-ELR



Aperture: 4-5/16 (11)
Ceiling Opening: 5-1/8 (13)
Overlap trim: 5-7/16 (13.8)

LDN4			
Target Lumen	Lumens @ 3500K	Wattage	LPW
500	688.8	8.5	80.8
1000	1025.1	12.7	80.7
1500	1443.8	20.4	70.8
2000	1993.5	22.5	88.6
2500	2659.0	30.1	88.3
3000	2860.1	34.8	82.2

LUMEN OUTPUT MULTIPLIERS - CCT					
	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

EL/ELR AVAILABILITY/COMPATIBILITY - INITIAL LUMENS			
Lumen package	Watts	Initial lumens EL/ELR	Emergency LED driver
500	12	500	PS1050
1000	18	575	PS1050
1500	26	640	PS1050
2000	35	690	PS1050

LUMEN OUTPUT MULTIPLIERS - FINISH			
	Clear (AR)	White (WR)	Black (BR)
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

FEATURES & SPECIFICATIONS

INTENDED USE — The CLX is a linear lighting solution that is available in multiple lengths, lumen packages and distributions. Designed for versatility, the CLX can address virtually any indoor lighting need. The CLX is also offered in standard and high efficacy configurations and capable of being continuous row mounted or installed as a stand-alone fixture. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

CONSTRUCTION — Channel and cover are formed from code-gauge cold-rolled steel. Housing and lens endcaps are injection molded plastic to provide a more architectural look and feel. The endcaps come standard with a 7/8" knock out for continuous mounting but can be ordered without.

Finish: Paint options include high-gloss, baked white polyester (WH), galvanized (GALV), matte black (MB) and smoke gray (SKGY). Five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Offered with acrylic lens and less lens configurations. Provides a choice of optical distributions including, wide, narrow, and aisle.

Models with wide diffuse lens provide up to 12% uplight. Please check the IES file for specific uplight value.

ELECTRICAL — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR_ ordering information on page 9.) Electronic LED driver is multi-volt input and 0-10V dimming standard (see Operational Data on page 6 for actual wattage consumption). This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided. Color Variation within 3-step MacAdam ellipse (3SDCM).

L70>100,000 hours at 25°C.

LEDs provide nominal 80 CRI or 90 CRI at 3000 K, 3500 K, 4000 K, or 5000 K.

Lumen output up to 2,500 lumens per foot.

INSTALLATION — Fixture may be ceiling or wall mounted (with or without THCLX hanger or angle mounted with CLXANGKT), pendant or stem mounted with appropriate mounting options.

WARNING — Removing the lens and opening the fixture during installation exposes the LEDs, putting them at risk for damage.

If you plan to surface mount the fixture, we recommend using the THCLX. This eliminates the need to open the fixture.

If you plan to continuous row mount, we recommend using the PLR wiring harness option. This eliminates the need to open the fixture.

Damage to the LEDs caused during installation will not be covered under the warranty.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -4°F (-20°C) and 104°F (40°C). Optional High Ambient (HA) ranging to 122°F (50°C) available on certain lumen packages (See ambient temperature chart for additional information).

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

GOVERNMENT PROCUREMENT — BAA — Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA — Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Stock configurations are offered for shorter lead times:

Stock Part Number	UPC
CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525816
CLX L48 3000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525885
CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525939
CLX L48 5000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525908
CLX L96 6000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525861
CLX L96 6000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525915
CLX L96 10000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525922
CLX L96 10000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525830
CLX L48 3000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525960
CLX L48 3000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525892
CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525854
CLX L48 5000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525946
CLX L96 6000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525878
CLX L96 6000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525823
CLX L96 10000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525953
CLX L96 10000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525847

Catalog Number
Notes
Type

LED Linear

CLX

24", 36", 48" and 96" Lengths

Flat Diffuse Lens

Round Diffuse Lens

Wide Diffuse Lens

CLX with Reflector



Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency — including color rendering, color fidelity, and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about Acuity A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.

*See ordering tree for details

CLX LED Linear



Design Select options indicated by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: CLX L48 5000LM SEF WDL MVOLT GZ10 40K 80CRI WH

Series	Length	Nominal lumens	Performance package	Louver	Lens
CLX LED linear	L24 24"	1500LM 1,500 lumens	SEF Standard efficiency ‡ HEF Premium efficiency ‡	(Blank) Less louver SBLW Straight blade louver, white ‡ SBLMB Straight blade louver, matte black ‡ SBLGV Straight blade louver, galvanized ‡ SBLSGY Straight blade louver, smoke gray ‡	L/Lens Less lens FDL Flat diffuse ‡ RDL Round diffuse ‡ WDL Wide diffuse ‡
		2000LM 2,000 lumens			
		2500LM 2,500 lumens			
		3500LM 3,500 lumens			
		4500LM 4,500 lumens			
		5000LM 5,000 lumens			
	L36 36"	2250LM 2,250 lumens			
		3000LM 3,000 lumens			
		3750LM 3,750 lumens			
		5250LM 5,250 lumens			
		6750LM 6,750 lumens			
		7500LM 7,500 lumens			
	L48 48"	3000LM 3,000 lumens			
		4000LM 4,000 lumens			
		5000LM 5,000 lumens			
		7000LM 7,000 lumens			
		9000LM 9,000 lumens			
		10000LM 10,000 lumens			
	L96 96"	6000LM 6,000 lumens			
		8000LM 8,000 lumens			
		10000LM 10,000 lumens			
		14000LM 14,000 lumens			
		18000LM 18,000 lumens			
		20000LM 20,000 lumens			

Distribution	Voltage	Driver ‡	Glare Reflector	Color temperature	Coloring rendering index
(Blank) General	MVOLT 120-277V ‡	GZ1 Generic 0-10V, dims to 1% ‡ GZ10 Generic 0-10V, dims to 10% ‡ EZ1 eldoLED 0-10V, dims to 1% ‡	(blank) No reflectors LUGR Reflectors for additional glare reduction ‡	30K 3000 K 35K 3500 K 40K 4000 K 50K 5000 K	80CRI 80 CRI 90CRI 90 CRI
ND Narrow ‡	120 120V	277 277V			
WD Wide ‡	208 208V ‡	347 347V ‡			
AD2 Aisle, 24° off center ‡	240 240V ‡	480 480V ‡			

Options	Finish
<p>E10W 10W Emergency battery pack, constant power, Certified in CA Title 20 MAEDBS, User selectable Self-Diagnostic, AC Activate with Integral Test Switch LINK ‡</p> <p>E10WSTAR Emergency battery pack, Enabled with STAR ‡</p> <p>BGTD Generator transfer device, not available with E10W ‡</p> <p>OCS 5', 18/3 Reloc selectable One Pass cable (fixture will bear dry location label) ‡</p> <p>HA High ambient, for use in ambient temperatures up to 50°C ‡</p> <p>EPNKO Decorative endplate, no knock out ‡</p> <p>OUTCTR Wiring leads pulled through back center of fixture ‡</p> <p>OUTEND Wiring leads pulled through end of fixture ‡</p> <p>Cord Sets: ‡</p> <p>CS1W 6' Straight blade plug, 120V ‡</p> <p>CS3W NEMA twist-lock plug, 120V ‡</p> <p>CS7W Straight blade plug, 277V ‡</p> <p>CS11W NEMA twist-lock plug, 277V ‡</p> <p>CS25W NEMA twist-lock plug, 347V ‡</p> <p>CS97W NEMA twist-lock plug, 480V ‡</p> <p>CS93W 600V SEOWW white cord, no plug (no voltage required) ‡</p> <p>CS6WG16STOWD5D 6' white cord, 16/5, no plug, includes low voltage dimming wires (no voltage required) ‡</p>	<p>PLR___ Plug-in wiring, see page 9 for ordering information</p> <p>PLR1G Plug-in wiring, single circuit, Ground</p> <p>PLR1LVG Plug-in wiring, single circuit, low-voltage dimming, Ground ‡</p> <p>RRL___ RELOC®-ready luminaire. See page 10 for ordering information</p> <p>SPD Surge protection device, provides up to 6kV protection ‡</p> <p>BAA Buy America(n) Act and/or Build America Buy America Qualified</p> <p>nLight® Wireless:</p> <p>NLTAIR2 RES7 nLight AIR Generation 2 enabled PIR integral occupancy sensor with automatic dimming photocell ‡</p> <p>NLTAIR2 RES7EM nLight AIR Generation 2 enabled PIR integral occupancy sensor with automatic dimming photocell and UL924 Emergency operation, via power interrupt detection ‡</p> <p>NLTAIR2 RES7PDT nLight AIR Generation 2 enabled dual technology integral occupancy sensor with automatic dimming photocell ‡</p> <p>NLTAIR2 RES7PDTEM nLight AIR Generation 2 enabled dual technology integral occupancy sensor with automatic dimming photocell and UL924 Emergency operation, via power interrupt detection ‡</p> <p>NLTAIR2 RIO No sensor control ‡</p> <p>NLTAIR2 RIOEM No sensor, Control Input function only and UL924 Emergency operation, via power interrupt detection ‡</p> <p>nLight® Wired:</p> <p>N100 nLight® without lumen management</p> <p>N100EMG nLight® without lumen management For use with generator supply EM power ‡</p> <p>NES7 nLight® nES 7 PIR integral occupancy sensor ‡</p> <p>NESPDT7 nLight® nES PDT 7 dual technology integral occupancy control ‡</p> <p>NES7ADCX nLight® nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ‡</p> <p>NESPDT7ADCX nLight® nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ‡</p> <p>Individual controls: ‡</p> <p>MSD7 PIR integral occupancy sensor</p> <p>MSDPDT7 PDT 7 dual technology integral occupancy control</p> <p>MSD7ADC PIR integral occupancy sensor with automatic dimming control photocell</p> <p>MSDPDT7ADC PDT integral occupancy sensor with automatic dimming control photocell</p> <p>WH White</p> <p>GALVW Galvanized with white lens end caps</p> <p>GALVB Galvanized with black lens end caps</p> <p>MB Matte black</p> <p>SKGYW Smoke gray with white lens end caps</p> <p>SKGYB Smoke gray with black lens end caps</p> <p>See Accessories and footnotes on next page</p>

CLX LED Linear

Accessories: Order as separate catalog number.		
Mounting:		
ZACVH M100	Adjustable 10' aircraft cable with Y hanger (1 pair)	SQ__ Swivel stem hanger (specify length in 2" increments up to 48") Ships White
ZAC120	One adjustable aircraft cable with canopy 120", white	THCLX ____ Tong hanger (Must specify color) (one pair) ‡
ZACFP120	One adjustable aircraft cable with feed (3 conductor) and canopy, 120", white	CLXANGBKT ____ Angle bracket, (Must specify color) (one pair) ‡
ZACFPD120	One adjustable aircraft cable with feed (5 conductor) and canopy 120", white	HC36 M12 Hanger chain, 36" (1 pair)
ZAC240	One adjustable aircraft cable with canopy 240", white	
ZACFP240	One adjustable aircraft cable with feed (3 conductor) and canopy, 240", white	Wireguards:
ZACFPD240	One adjustable aircraft cable with feed (5 conductor) and canopy 240", white	WGCLX24 ____ 24" wireguard qty 1, (Must specify color) ‡
		WGCLX36 ____ 36" wireguard qty 1, (Must specify color) ‡
		WGCLX48 ____ 48" wireguard qty 1, (Must specify color) ‡
		WGCLX48 ____ J2 48" wireguard qty 2, (Must specify color) ‡
		WGCLX48 ____ J25 48" wireguard qty 25, (Must specify color) ‡
		WGCLX48 ____ J50 48" wireguard qty 50, (Must specify color) ‡

‡ Option Value Ordering Restrictions	
Option value	Restriction
347V, 480V	Voltage selected utilizes a step-down transformer. Not available with L24 when ordered with N100. Not available with E10W or BGTD options.
BGTD	Not available with MVOLT, 208V or 240V. Not available with HA. Available with L48 or L96 only. Not available with E10W option. Not available with 208 or 240V. Not available Individual controls, nLight Wired, or nLight Wireless options.
CS1W, CS3W, CS7W, CS11W, CS25W, CS963W, CS97W	Not available with BGTD option. Must specify voltage. Not available with PLR options.
CS6WG16STOWD5D	Not available with Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options. Not available with PLR options.
Driver	When continuous row mounting, fixtures must all have the same driver selection.
E10W	Not available with HA. Not available with 347V or 480V. Not available with BGTD option. Requires SPD option. Not available with L24 or L36. Not available with L48 in combination with N100.
E10WSTAR	Not available with HA. Not available with 347V or 480V. Not available with BGTD option. Requires SPD option. Not available with L24 or L36. Not available with L48 in combination with N100.
EPNKO	Not available OUTEND.
EZ1	Not available with HA option. Not available with 5000LM, 7500LM.
FDL, RDL, WDL	Only available with general distribution. Not available with CLXRN accessories.
GZ1, GZ10	Not available with Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options.
HA	Not available with L24, L26. Not available with BGTD option. Not available with EZ1. Only available with L48 3000/4000/5000LM and L96 6000/8000/10000LM.
HEF	Not available with L48 3000LM and L96 6000LM
LUGR	Not available with L36 length. Only available with WH finish. Not compatible with THCLX Hanger or wireguard accessories. LUGR option required for some DLC premium qualifications - Please check the DLC Qualified Products List to determine if LUGR option is necessary to meet requirement. If mounting in continuous rows, ensure all models ordered with LUGR option if required on any configuration to ensure rows match in form factor. LUGR reflectors ship in standard fixture carton and are not sold as separate accessory - this option MUST be specified as part of the CLX model number.
MSD7, MSDPDT7, MSD7ADC, MSDPDT7ADC	Not available with any other control option. Requires EZ1. Sensor housing will be the same color as lens end caps.
N100, N100EMG	nLight EMG option requires a connection to existing nLight network. Power is provided from separate N100 enabled fixture.
ND, WD, AD2	Not available with CLXRN accessories. Available L/LENS only.
NES7, NESPDT7, NES7ADCX, NESPDT7ADCX	Not available with any other control option. Requires EZ1. Requires N100 or N100EMG option, N100EMG with NES7 requires RFA. Sensor housing will be the same color as lens end caps.
NLTAIR2 RES7(EM), NLTAIR2 RES7PDT(EM), NLTAIR2 RIO(EM)	Sensor housing will be the same color as lens end caps. For EM, see UL924 Sequence of Operation chart below.
OCS	Must specify voltage.
OUTCR	Not available with L24. Not available with PLR options.
OUTEND	Not available with PLR options.
PLR1LVG	Not available with Individual controls, nLight Wired, or nLight Wireless options. Refer to page 9 for more PLR details. Not available with cord set options.
SBLW, SBLMB, SBLGV, SBLSGY	When ordered with L24 only available with 1500LM or 2000LM in combination with GZ10 driver. Not for use with THCLX, CLXANGBKT or WGCLX accessories. Not available with RDL lens options.
SEF	Not available with EZ1 when ordered with L24 with 5000LM or L36 with 7500LM.
SPD	Required with E10W, BGTD.
THCLX ____, CLXANGBKT ____	Not available with louver or wireguards. THCLX ____ not available with LUGR.
Wireguards	Not for use with LUGR option. For L96 fixtures, use qty 2 48" wireguards.

UL924 Sequence of Operation
The below information applies to all nLight AIR devices with an EM option.
<ul style="list-style-type: none"> EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds. Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts. Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

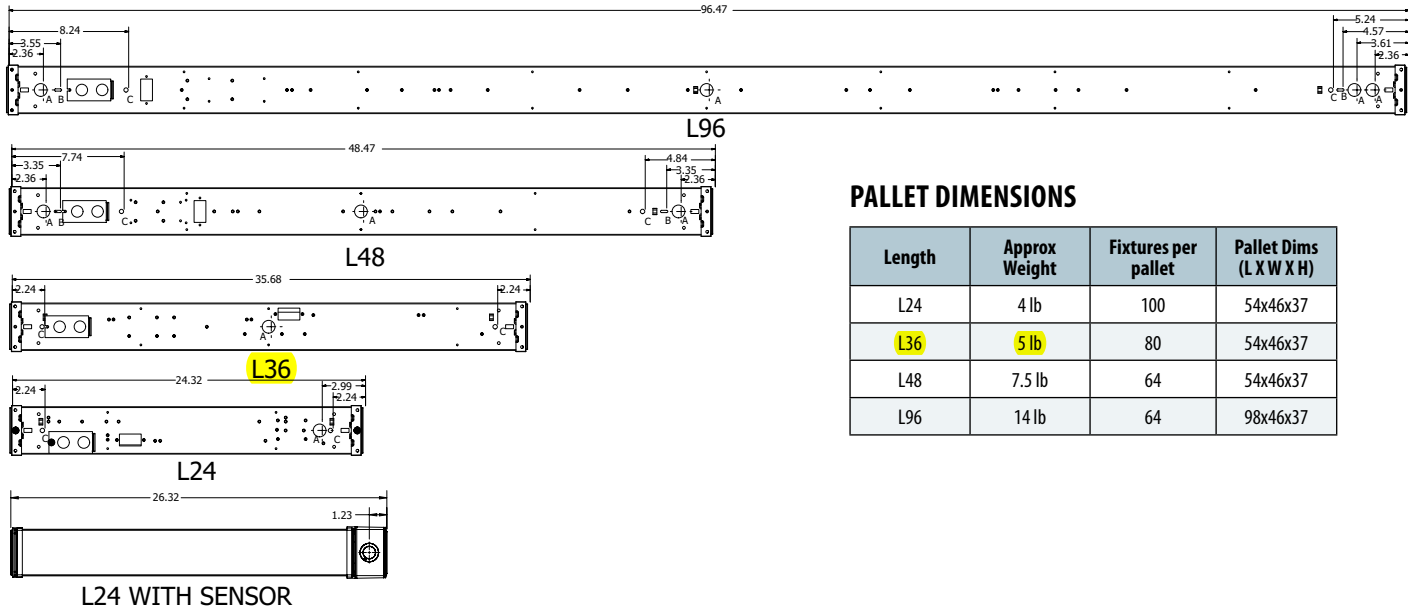
CLX LED Linear

DIMENSIONS

All dimensions are in inches (centimeters) unless otherwise indicated.
Dimensions may vary with options or accessories.

INTEGRATED SENSOR ADDS 2.0 INCHES TO STANDALONE FIXTURE LENGTH
HOUSING END CAP ADDS 0.236 INCHES TO FIXTURE LENGTH PER SIDE. DIMENSIONS BELOW INCLUDE ENDCAPS.

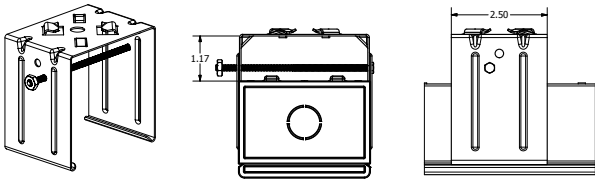
A - 7/8" KNOCK OUT
B - 0.5" by 0.16" SLOT
C - 0.3" DIA HOLE



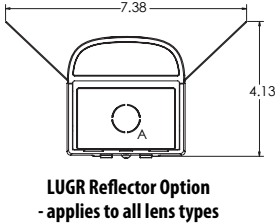
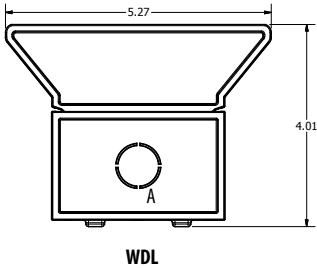
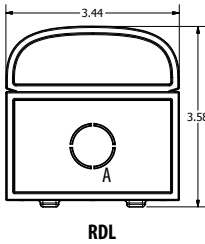
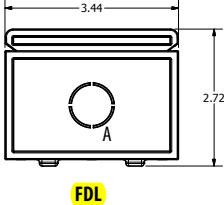
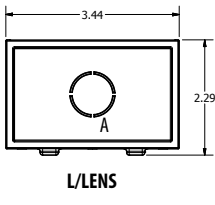
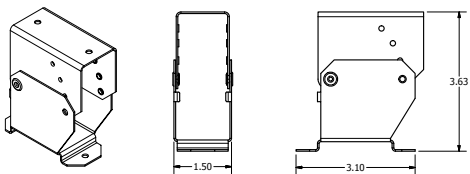
PALLET DIMENSIONS

Length	Approx Weight	Fixtures per pallet	Pallet Dims (L X W X H)
L24	4 lb	100	54x46x37
L36	5 lb	80	54x46x37
L48	7.5 lb	64	54x46x37
L96	14 lb	64	98x46x37

THCLX - SHIPS TWO PER ORDER,
UTILIZES A #8 HEX HEAD SCREW AND NUT
FIXTURE SITS 1.3 INCHES FROM STRUCTURE WHEN MOUNTED



CLXANGBKT - SHIPS TWO PER ORDER
HOLES TO MOUNTING STRUCTURE ARE 0.175" DIA, 2.5" APART
FIXTURE SITS APPROXIMATELY 3.5" FROM STRUCTURE
WHEN MOUNTED HORIZONTAL TO STRUCTURE



LUGR Reflector Option
- applies to all lens types

PHOTOMETRICS

See www.lithonia.com.

CLX LED Linear

CLX CHARACTERISTICS

Nominal Lumen Package	Length	Wattage								Length	Width	Depth	Comparable Light Source
		Standard Efficiency				High Efficiency							
		120V	277V	347V	480V	120V	277V	347V	480V				
2500LM	24"	18.4	18.4	24.0	24.0	17.4	17.4	23.1	23.1	24	3.5	3.75	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
5000LM	24"	41.5	41.5	47.4	47.4	38.1	38.1	44.1	44.1	24	3.5	3.75	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
3750LM	36"	26.5	26.5	32.1	32.1	25.1	25.1	30.7	30.7	36	3.5	3.75	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
7500LM	36"	62.6	62.6	68.6	68.6	54.0	54.0	59.7	59.7	36	3.5	3.75	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
5000LM	48"	31.8	31.8	37.2	37.2	30.3	30.3	35.8	35.8	48	3.5	3.75	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
10000LM	48"	70.7	70.7	76.2	76.2	65.3	65.3	70.8	70.8	48	3.5	3.75	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
10000LM	96"	63.7	63.7	69.0	69.0	60.6	60.6	66.1	66.1	96	3.5	3.75	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
20000LM	96"	141.3	141.3	146.8	146.8	130.5	130.5	136.1	136.1	96	3.5	3.75	6-lamp 32W T8, 4-lamp 54W T5HO, 200W HID

Note: For wattage by configuration, please reference the [CLX Operational Data Document](#).

Lumen Package	UGR Values of CLX L24 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)													
	FDL		RDL		WDL		FDL LUGR		RDL LUGR		WDL LUGR		L/LENS	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
1500LM SEF	21.2	23.8	19.4	25.2	17.4	21.1	16.8	14	17.8	16.6	18.1	17.9	24.9	25.1
2000LM SEF	22.3	24.9	20.5	26.3	18.6	22.3	17.9	15.1	18.8	17.6	19.2	18.9	26.1	26.2
2500LM SEF	23.1	25.7	21.3	27.1	19.4	23.1	18.6	15.8	19.6	18.4	19.9	19.7	26.9	27
3500LM SEF	24.1	26.7	22.3	28.1	20.4	24.1	19.7	16.9	20.7	19.5	21	20.8	27.9	28.1
4500LM SEF	25.4	28	23.6	29.4	21.7	25.4	20.7	17.9	21.7	20.5	22	21.8	29.2	29.3
5000LM SEF	25.6	28.2	23.3	29.1	21.4	25.1	21	18.3	21.5	20.3	21.8	21.5	29.4	29.5
1500LM HEF	21.1	23.7	19.3	25.1	17.4	21.1	16.5	13.7	17.6	16.3	17.8	17.6	24.9	25
2000LM HEF	22.2	24.8	20.4	26.2	18.5	22.2	17.6	14.8	18.6	17.4	18.8	18.6	26	26.2
2500LM HEF	23	25.7	21.3	27	19.3	23	18.4	15.6	19.4	18.2	19.7	19.4	26.8	27
3500LM HEF	24.1	26.7	22.3	28.1	20.4	24.1	19.8	17	20.9	19.7	21.1	20.9	27.9	28
4500LM HEF	25.3	27.9	23.5	29.3	21.6	25.3	20.8	18	21.8	20.6	22.1	21.8	29.1	29.3
5000LM HEF	25.5	28.1	23.7	29.5	21.6	25.3	21.1	18.3	22.1	20.9	22.3	22.1	29.3	29.5

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application

Lumen Package	UGR Values of CLX L36 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)							
	FDL		RDL		WDL		L/LENS	
	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise	Crosswise	Endwise
2250LM SEF	21.4	24.1	19.7	25.6	17.7	21.6	25.2	25.4
3000LM SEF	22.3	25	20.6	26.5	18.6	22.5	26.2	26.3
3750LM SEF	23.2	25.9	21.4	27.3	19.5	23.4	27	27.2
5250LM SEF	24.2	26.9	22.5	28.4	20.5	24.4	28	28.2
6750LM SEF	25.1	27.8	23.3	29.2	21.4	25.3	28.9	29
7500LM SEF	25.4	28.1	23.6	29.5	21.7	25.6	29.2	29.4
2250LM HEF	25	27.7	20.5	26.4	18.6	22.5	25.2	25.3
3000LM HEF	25.3	28	21.4	27.3	19.4	23.3	26.1	26.2
3750LM HEF	21.4	24.1	22.4	28.3	20.5	24.4	27	27.1
5250LM HEF	22.3	25	23.2	29.2	21.3	25.2	28	28.1
6750LM HEF	23.1	25.8	23.6	29.5	21.6	25.5	28.8	29
7500LM HEF	24.2	26.8	19.6	25.5	17.7	21.6	29.1	29.3

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application



AMBIENT TEMPERATURE RATINGS

Driver Package		GZ10			EZ1 or EOHN			Any Driver	
Length	Lumen package	Direct Surface	THCLX/ Suspended	HA Option (Direct or Suspended)	Direct Surface	THCLX	Suspended 18"	Xpoint/ BGTD Direct Surface	E10W Suspended
L24	1500LM	40C	40C	N/A	35C	35C	35C	N/A	N/A
	2000LM	40C	40C		35C	35C	35C		
	2500LM	40C	40C		35C	35C	35C		
	3000LM	40C	40C		40C	40C	40C		
	4500LM	40C	40C		35C	35C	40C		
	5000LM	40C	40C		25C	30C	35C		
L36	2250LM	40C	40C		40C	40C	40C		
	3000LM	40C	40C		40C	40C	40C		
	3750LM	40C	40C		40C	40C	40C		
	5250LM	40C	40C		35C	35C	40C		
	6750LM	30C	40C		35C	35C	40C		
	7500LM	30C	40C		25C	30C	35C		
L48	3000LM	40C	40C	50C	40C	40C	40C	35C	25C
	4000LM	40C	40C	50C	40C	40C	40C		
	5000LM	40C	40C	50C	35C	35C	40C		
	7000LM	30C	40C	N/A	35C	35C	40C		
	9000LM	30C	40C		25C	30C	35C		
	10000LM	30C	40C		25C	30C	35C		
L96	6000LM	40C	40C	50C	35C	35C	40C		
	8000LM	30C	40C	50C	35C	35C	40C		
	10000LM	30C	40C	50C	25C	30C	35C		
	14000LM	40C	40C	N/A	35C	35C	40C		
	18000LM	30C	40C		25C	30C	35C		
	20000LM	30C	40C		25C	30C	35C		

FEATURES & SPECIFICATIONS

INTENDED USE — The CLX is a linear lighting solution that is available in multiple lengths, lumen packages and distributions. Designed for versatility, the CLX can address virtually any indoor lighting need. The CLX is also offered in standard and high efficacy configurations and capable of being continuous row mounted or installed as a stand-alone fixture. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

CONSTRUCTION — Channel and cover are formed from code-gauge cold-rolled steel. Housing and lens endcaps are injection molded plastic to provide a more architectural look and feel. The endcaps come standard with a 7/8" knock out for continuous mounting but can be ordered without.

Finish: Paint options include high-gloss, baked white polyester (WH), galvanized (GALV), matte black (MB) and smoke gray (SKGY). Five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Offered with acrylic lens and less lens configurations. Provides a choice of optical distributions including, wide, narrow, and aisle.

ELECTRICAL — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR ordering information on page 14.) Electronic LED driver is multi-volt input and 0-10V dimming standard (see Operational Data on page 12 for actual wattage consumption). This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

L70>100,000 hours at 25°C.

LEDs provide nominal 80 CRI or 90CRI at 3000 K, 3500 K, 4000 K, or 5000 K.

Lumen output up to 2,500 lumens per foot.

INSTALLATION — Fixture may be ceiling or wall mounted (with or without THCLX hanger or angle mounted with CLXANGBRT), pendant or stem mounted with appropriate mounting options.

WARNING — Removing the lens and opening the fixture during installation exposes the LEDs, putting them at risk for damage.

If you plan to surface mount the fixture, we recommend using the THCLX. This eliminates the need to open the fixture.

If you plan to continuous row mount, we recommend using the PLR wiring harness option. This eliminates the need to open the fixture.

Damage to the LEDs caused during installation will not be covered under the warranty.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -4°F (-20°C) and 104°F (40°C). Optional High Ambient (HA) ranging to 122°F (50°C) available on certain lumen packages (See ambient temperature chart for additional information).

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25°C.

Specifications subject to change without notice.

Catalog Number
Notes
Type

LED Linear

CLX

24", 36", 48" and 96" Lengths

Flat Diffuse Lens

Round Diffuse Lens

Wide Diffuse Lens



Stock configurations are offered for shorter lead times:

Stock Part Number	UPC	DLC QPL Product ID	DLC Premium
CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525816	PJANKZR4	Yes
CLX L48 3000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525885	PKW32VKL	Yes
CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525939	P77I8Z20	Yes
CLX L48 5000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525908	P8A42C1H	Yes
CLX L96 6000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525861	PPFTGRBV	Yes
CLX L96 6000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525915	PW6250TE	Yes
CLX L96 10000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525922	PYKOC7EW	Yes
CLX L96 10000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525830	PKYPL35K	Yes
CLX L48 3000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525960	PJANKZR4	Yes
CLX L48 3000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525892	PKW32VKL	Yes
CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525854	P77I8Z20	Yes
CLX L48 5000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525946	P8A42C1H	Yes
CLX L96 6000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525878	PPFTGRBV	Yes
CLX L96 6000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525823	PD0SSIAD	Yes
CLX L96 10000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525953	PYKOC7EW	Yes
CLX L96 10000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525847	PKYPL35K	Yes

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a [shaded background](#)*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

CLX LED Linear

ORDERING INFORMATION		Lead times will vary depending on options selected. Consult with your sales representative.				Example: CLX L48 5000LM SEF WDL MVOLT GZ10 40K 80CRI WH				
Series	Length	Nominal lumens		Performance package		Louver		Lens		
CLX LED linear	L2424" ^{1,2}	1500LM	1,500 lumens	SEF	Standard efficiency ³	(Blank)	Less louver	L/Lens	Less lens	
		2000LM	2,000 lumens	HEF	Premium efficiency	SBLW	Straight blade louver, white ⁶	FDL	Flat diffuse ^{7,8}	
		2500LM	2,500 lumens			SBLMB	Straight blade louver, matte black ⁶	RDL	Round diffuse ^{7,8}	
		3500LM	3,500 lumens			SBLGV	Straight blade louver, galvanized ⁶	WDL	Wide diffuse ^{7,8}	
		4500LM	4,500 lumens							
	L3636" ²	5000LM	5,000 lumens ^{3,4}			SBLSKGY	Straight blade louver, smoke gray ⁶			
		2250LM	2,250 lumens							
		3000LM	3,000 lumens							
		3750LM	3,750 lumens							
		5250LM	5,250 lumens							
	L4848"	6750LM	6,750 lumens							
		7500LM	7,500 lumens ^{3,4}							
		3000LM	3,000 lumens							
		4000LM	4,000 lumens							
		5000LM	5,000 lumens							
	L9696"	7000LM	7,000 lumens ²							
9000LM		9,000 lumens ²								
10000LM		10,000 lumens ^{2,4}								
6000LM		6,000 lumens								
8000LM		8,000 lumens								
	10000LM	10,000 lumens								
	14000LM	14,000 lumens ^{2,4}								
	18000LM	18,000 lumens ^{2,4}								
	20000LM	20,000 lumens ^{2,4}								
Distribution		Voltage		Driver ¹⁴		Color temperature		Coloring rendering index		
(Blank) General	MVOLT	120-277V ¹⁰	277	277V	GZ10	0-10V dimming ¹⁵	30K	3000 K	80CRI	80 CRI
ND Narrow ^{8,9}	120	120V	347	347V ^{12,13}	EZ1	Dimming to 1% ²	35K	3500 K	90CRI	90 CRI
WD Wide ^{8,9}	208	208V ¹¹	480	480V ^{12,13}			40K	4000 K		
AD2 Aisle, 24° off center ^{8,9}	240	240V ¹¹					50K	5000 K		
Options									Finish	
PS1050	Emergency battery pack, 10W, CA Title 20 Noncompliant ^{2,11,13,16,17}		PLR___	Plug-in wiring, see page 16 for ordering information		nLight® Wired: ^{23,25}		WH	White	
E10WLCP	Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ^{2,11,13,16,17}		PLR1LVG	Plug-in wiring, low voltage dimming ²²		N100	nLight® without lumen management	GALVW	Galvanized with white lens end caps	
BGTD	Generator transfer device, not available with PS1050 ^{13,16,18}		RRL___	RELOC®-ready luminaire. See page 15 for ordering information		NES7	nLight® nES 7 PIR integral occupancy sensor ²⁶	GALVB	Galvanized with black lens end caps	
OCS	5', 18/3 Reloc selectable One Pass cable ¹⁶		SPD	Surge protection device, provides up to 6kV protection ²⁰		NESPDT7	nLight® nES PDT 7 dual technology integral occupancy control ²⁶	MB	Matte black	
HA	High ambient, for use in ambient temperatures up to 50°C ¹¹		USPOM	Assembled in the United States		NES7ADCX	nLight® nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ²⁶	SKGYW	Smoke gray with white lens end caps	
EPNKO	Decorative endplate, no knock out ¹⁹		nLight® Wireless: ^{23,24}		NESPDT7ADCX	nLight® nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ²⁶	SKGYB	Smoke gray with black lens end caps		
OUTCTR	Wiring leads pulled through back center of fixture ²⁰		NLTAIR2 RES7	nLight® Generation 2 enabled PIR integral occupancy sensor with automatic dimming photocell		Individual controls: ^{23,25}				
OUTEND	Wiring leads pulled through end of fixture ²¹		NLTAIR2 RES7PDT	nLight AIR Generation 2 enabled dual technology integral occupancy sensor with automatic dimming photocell		MSD7	PIR integral occupancy sensor			
Cord Sets:			NLTAIR2 RES7PDT	nLight AIR Generation 2 enabled dual technology integral occupancy sensor with automatic dimming photocell		MSDPDT7	PDT 7 dual technology integral occupancy control			
CS1W	Straight blade plug, 120V ^{10,16}		NLTAIR2 RIO	No sensor control		MSD7ADC	PIR integral occupancy sensor with automatic dimming control photocell			
CS3W	NEMA twist-lock plug, 120V ^{10,16}					MSDPDT7ADC	PDT integral occupancy sensor with automatic dimming control photocell			
CS7W	Straight blade plug, 277V ^{10,16}									
CS11W	NEMA twist-lock plug, 277V ^{10,16}									
CS25W	NEMA twist-lock plug, 347V ^{10,16}									
CS97W	NEMA twist-lock plug, 480V ^{10,16}									
CS93W	600V SEOW white cord, no plug (no voltage required)									
CS6WG16STOWD5D	6' white cord, 16/5, no plug, includes low voltage dimming wires (no voltage required) ¹⁵									

See Accessories and footnotes on next page

CLX LED Linear

Accessories: Order as separate catalog number.			
Mounting:			
ZACVH	Aircraft cable 120" (one pair)	THCLX ____	Tong hanger (Must specify color) (one pair) ²⁸
ZAC120	One adjustable aircraft cable with canopy 120" ²⁷	CLXANGBKT ____	Angle bracket, (Must specify color) (one pair) ²⁸
ZACFP120	One adjustable aircraft cable with feed (3 conductor) and canopy, 120" ²⁷	HC36	Hanger chain, 36" (one pair)
ZACFPD120	One adjustable aircraft cable with feed (5 conductor) and canopy 120" ²⁷	Sensors & Controls:	
ZAC240	One adjustable aircraft cable with canopy 240" ²⁷	LSXR	Sensor Switch ® LSXR occupancy sensor ²⁹
ZACFP240	One adjustable aircraft cable with feed (3 conductor) and canopy, 240" ²⁷	NPP16D	nLight® switching/dimming module
ZACFPD240	One adjustable aircraft cable with feed (5 conductor) and canopy 240" ²⁷	NPP16DER	nLight® switching/dimming module with emergency relay
SQ_	Stem kit, 2" increments up to 48" ²⁷	rPP20D	nLight® air dimming/switching module
		XPA CMR80	XPoint™ Wireless 0-10V relay, external, 55°C max ambient
		Reflectors:	
		CLXRW24_	Wide decorative 24" reflector, (Must specify color) ³⁰
		CLXRW36_	Wide decorative 36" reflector, (Must specify color) ³⁰
		CLXRW48_	Wide decorative 48" reflector, (Must specify color) ³⁰
		CLXRW96_	Two wide decorative 48" reflectors, (Must specify color) ³⁰
		CLXRWU24_	Wide decorative 24" reflector with uplight, (Must specify color) ³⁰
		CLXRWU36_	Wide decorative 36" reflector with uplight, (Must specify color) ³⁰
		CLXRWU48_	Wide decorative 48" reflector with uplight, (Must specify color) ³⁰
		CLXRWU96_	Two wide decorative 48" reflectors with uplight, (Must specify color) ³⁰
		CLXRN24	Narrow 24" reflector, (Must specify color) ³¹
		CLXRN36	Narrow 36" reflector, (Must specify color) ³¹
		CLXRN48	Narrow 48" reflector, (Must specify color) ³¹
		CLXRN96	Two narrow 48" reflectors, (Must specify color) ³¹
		Wireguards:	
		WGCLX24_	24" wireguard, (Must specify color) ³²
		WGCLX36_	36" wireguard, (Must specify color) ³²
		WGCLX48_	48" wireguard, XX, (Must specify color) 96" fixture requires two ³²

Notes

- Not available with OUTCTR option.
- Not available with HA option.
- Not available with SEF when ordered in combination with EZ1.
- Not available with NLTAIR2 RES7, NLTAIR2 RES7PDT, or NLTAIR2 RIO.
- Not available with EZ1 when ordered with L24 with 5000LM or L36 with 7500LM.
- When ordered with L24 only available with 1500LM or 2000LM in combination with G210 driver. Not for use with THCLX, CLXANGBKT, CLX reflectors or WGCLX accessories. Not available with RDL lens options.
- Only available with general distribution.
- Not available with CLXRN accessories.
- Available L/LENS only.
- Not available with PS1050, E10WLCP, or BGTD.
- Not available with BGTD option.
- Voltage selected utilizes a step-down transformer. Not available with L24 when ordered with N100. Not available with PS1050, E10WLCP or BGTD option.
- Requires SPD option.
- When continuous row mounting, fixtures must all have the same driver selection.
- Not available with Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options.
- Must specify voltage.
- Not available with L24 or L36. Not available with L48 in combination with N100.
- Available with L48 or L96 only. 20 Not available with PS1050 or E10WLCP options. Not available with 208 or 240V. Not available Individual controls, NLight Wired, or NLight Wireless options.
- Not available OUTEND.
- Required with PS1050, E10WLCP, BGTD, XAD, or XAD924.
- Not available with PLR options.
- Not available with XPoint, Individual controls, NLight Wired, or NLight Wireless options.
- Sensor housing will be the same color as lens end caps.
- Not available with L24 in combination with 5000LM, not available with L36 in combination with 7500LM, not available with L48 in combination with 10000LM, and not available with L96 in combination with 14000LM, 18000LM, or 20000LM. Not available with PLRs containing low voltage dimming wires.
- Not available with any other control option. Requires EZ1.
- Requires N100 option.
- Ships standard as white.
- Not available with louver, wireguards, wide reflectors.
- More configurations on [LSXR Specification Sheet](#).
- L24 reflector is 22.65", L36 reflector is 34.01", L48 reflector is 46.80", L96 comes with two L48 reflectors.
- For use with L/LENS fixtures only. L24 reflector is 22.75", L36 reflector is 34.20", L48 reflector is 46.85", L96 comes with two L48 reflectors.
- Not for use with CLX wide reflector accessories.

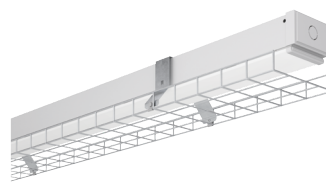
OPTIONS AND ACCESSORIES



Narrow reflector
Ships separately from fixture.
Order as:
CLXRN24_ ____
CLXRN36_ ____
CLXRN48_ ____
CLXRN96_ ____



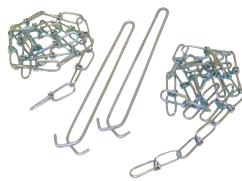
Wide decorative reflector
Ships separately from fixture.
Order as:
CLXRW24_ ____
CLXRW36_ ____
CLXRW48_ ____
CLXRW96_ ____



Wireguard
Ships separately from fixture:
96" fixture requires two WGCLX48.
Order as:
WGCLX24_ ____
WGCLX36_ ____
WGCLX48_ ____



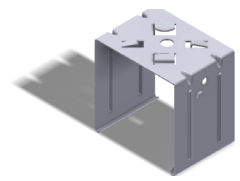
Aircraft Cable with Canopy
Available in 120" or 240"
Order as:
ZAC120
ZAC240



HANGER CHAIN
36" chain with Y hanger. ships as a pair
Order as:
HC36



ZACVH HANGER
10' Aircraft cable with Y hanger.
Order as:
ZACVH



Tong hanger
Ships as a pair
Order As:
THCLX_ ____

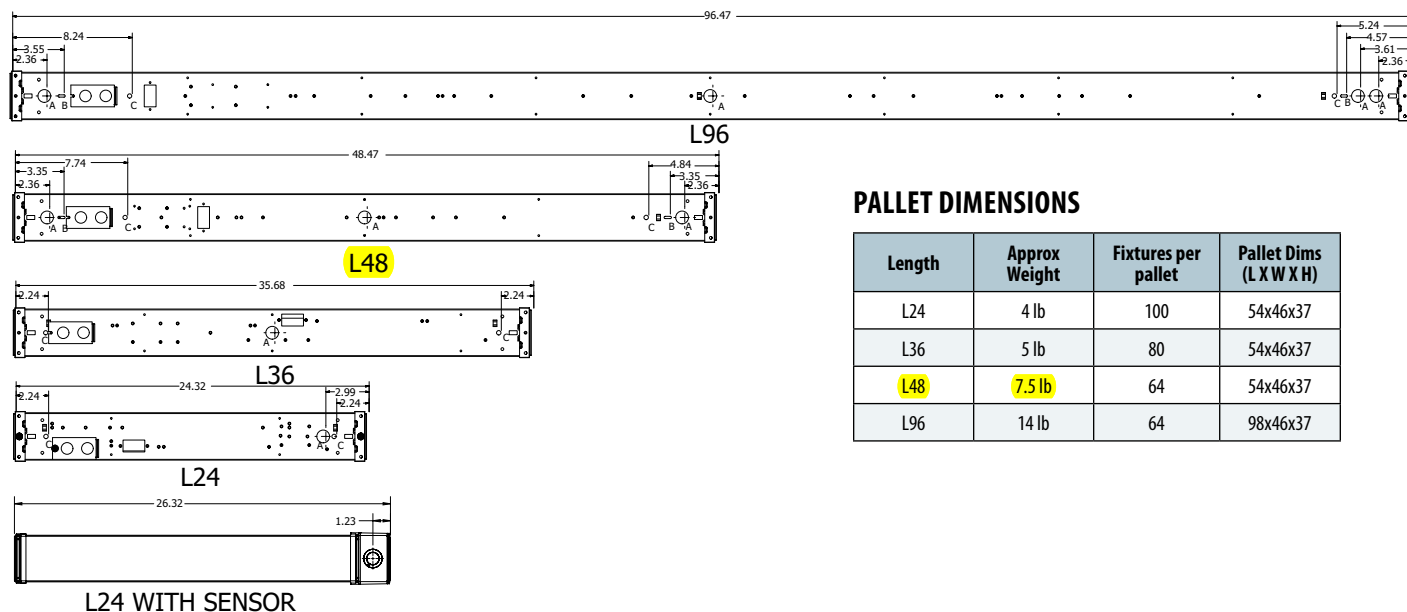
CLX LED Linear

DIMENSIONS

All dimensions are in inches (centimeters) unless otherwise indicated.
Dimensions may vary with options or accessories.

INTEGRATED SENSOR ADDS 2.0 INCHES TO STANDALONE FIXTURE LENGTH
HOUSING END CAP ADDS 0.236 INCHES TO FIXTURE LENGTH PER SIDE. DIMENSIONS BELOW INCLUDE ENDCAPS.

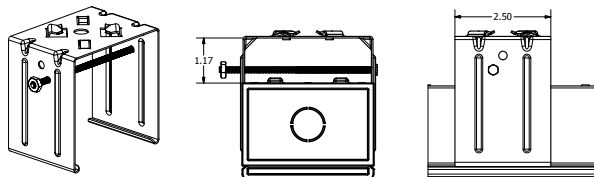
A - 7/8" KNOCK OUT
B - 0.5" by 0.16" SLOT
C - 0.3" DIA HOLE



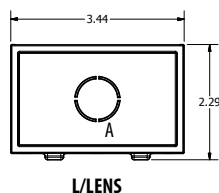
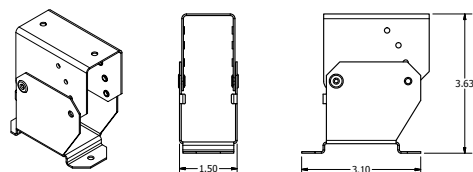
PALLET DIMENSIONS

Length	Approx Weight	Fixtures per pallet	Pallet Dims (L X W X H)
L24	4 lb	100	54x46x37
L36	5 lb	80	54x46x37
L48	7.5 lb	64	54x46x37
L96	14 lb	64	98x46x37

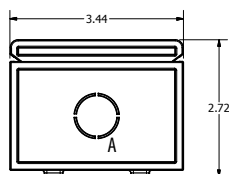
THCLX - SHIPS TWO PER ORDER,
UTILIZES A #8 HEX HEAD SCREW AND NUT
FIXTURE SITS 1.3 INCHES FROM STRUCTURE WHEN MOUNTED



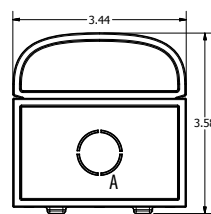
CLXANGBKT - SHIPS TWO PER ORDER
HOLES TO MOUNTING STRUCTURE ARE 0.175" DIA, 2.5" APART
FIXTURE SITS APPROXIMATELY 3.5" FROM STRUCTURE
WHEN MOUNTED HORIZONTAL TO STRUCTURE



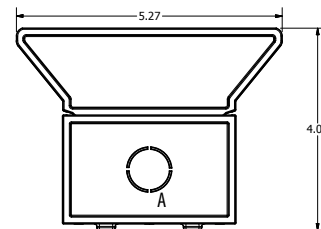
L/LENS



FDL



RDL



WDL

PHOTOMETRICS

See www.lithonia.com.

POWER SENTRY EMERGENCY BATTERY PACKS

		SEF Emergency Lumens	HEF Emergency Lumens
PS1050	Factory installable	1400	1500
E10WLCP	Factory installable	1400	1500
PS1555LCP	Field installable, remote mount only	2000	2100

Note: For emergency lumen output of specific model, please consult factory. One board will be illuminated during emergency operation.

CLX CHARACTERISTICS

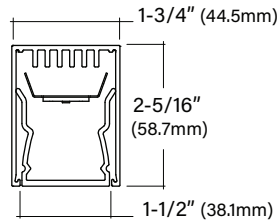
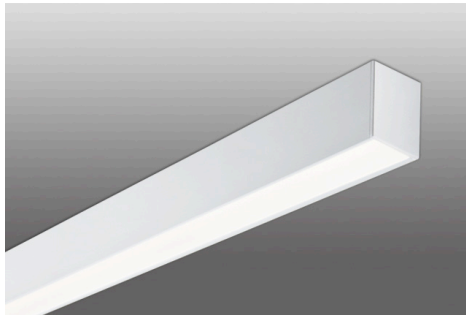
Nominal Lumen Package	Length	Wattage								Length	Width	Depth	Comparable Light Source
		Standard efficiency				High efficiency							
		120V	277V	347V	480V	120V	277V	347V	480V	Dimensions are shown in inches			
2500LM	24"	19.9	19.9	25.9	25.9	18.5	18.5	24.5	24.5	24	3.5	3.75	1-lamp 32WT8, 1-lamp 54W T5HO, 50W HID
5000LM	24"	41.9	41.9	47.9	47.9	37.9	37.9	43.9	43.9	24	3.5	3.75	2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID
3750LM	36"	28.1	28.1	34.1	34.1	27.0	27.0	33.0	33.0	36	3.5	3.75	1-lamp 32WT8, 1-lamp 54W T5HO, 50W HID
7500LM	36"	62.9	62.9	68.9	68.9	56.8	56.8	62.8	62.8	36	3.5	3.75	2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID
5000LM	48"	35.4	35.4	41.4	41.4	32.9	32.9	38.9	38.9	48	3.5	3.75	2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID
10000LM	48"	77.1	77.1	83.1	83.1	70.4	70.4	76.4	76.4	48	3.5	3.75	3-lamp 32WT8, 2-lamp 54W T5HO, 100W HID
10000LM	96"	70.8	70.8	76.8	76.8	65.8	65.8	71.8	71.8	96	3.5	3.75	3-lamp 32WT8, 2-lamp 54W T5HO, 100W HID
20000LM	96"	154.2	154.2	160.2	160.2	140.8	140.8	146.8	146.8	96	3.5	3.75	6-lamp 32WT8, 4-lamp 54T5HO, 200W HID

AMBIENT TEMPERATURE RATINGS

Driver Package		GZ10			EZ1			Any Driver	
Length	Lumen package	Direct Surface	THCLX/ Suspended	HA Option (Direct or Suspended)	Direct Surface	THCLX	Suspended 18"	Xpoint/ BGTD Direct Surface	PS1050 Suspended
L24	1500LM	40C	40C	N/A	35C	35C	35C	N/A	N/A
	2000LM	40C	40C		35C	35C	35C		
	2500LM	40C	40C		35C	35C	35C		
	3000LM	40C	40C		40C	40C	40C		
	4500LM	40C	40C		35C	35C	40C		
	5000LM	40C	40C		25C	30C	35C		
L36	2250LM	40C	40C		40C	40C	40C		
	3000LM	40C	40C		40C	40C	40C		
	3750LM	40C	40C		40C	40C	40C		
	5250LM	40C	40C		35C	35C	40C		
	6750LM	30C	40C		35C	35C	40C		
	7500LM	30C	40C		25C	30C	35C		
L48	3000LM	40C	40C	50C	40C	40C	40C	35C	25C
	4000LM	40C	40C	50C	40C	40C	40C		
	5000LM	40C	40C	50C	35C	35C	40C		
	7000LM	30C	40C	N/A	35C	35C	40C		
	9000LM	30C	40C		25C	30C	35C		
	10000LM	30C	40C		25C	30C	35C		
L96	6000LM	40C	40C	50C	35C	35C	40C		
	8000LM	30C	40C	50C	35C	35C	40C		
	10000LM	30C	40C	50C	25C	30C	35C		
	14000LM	40C	40C	N/A	35C	35C	40C		
	18000LM	30C	40C		25C	30C	35C		
	20000LM	30C	40C		25C	30C	35C		

CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage	
					Color Temperature					
					3000K	3500K	4000K	5000K		
FDL	L48	3000LM	SEF	80	2662	2737	2812	2879	20.32	
				90	2320	2370	2437	2562	20.32	
			HEF	80	2654	2691	2812	2820	19.01	
				90	2170	2200	2313	2313	19.01	
		4000LM	SEF	80	3557	3657	3758	3847	27.58	
				90	3100	3167	3256.	3423	27.58	
			HEF	80	3546	3596	3758	3768	24.75	
				90	2899	2939	3091	3091	24.75	
		5000LM	SEF	80	4450	4576	4701	4813	34.8	
				90	3878	3962	4073	4283	34.8	
			HEF	80	4436	4499	4701	4714	31.77	
				90	3627	3678	3867	3867	31.77	
		7000LM	SEF	80	6446	6628	6810	6972	49.05	
				90	5618	5739	5901	6204	49.05	
			HEF	80	6426	6517	6810	6829	44.67	
				90	5254	5327	5602	5602	44.67	
		9000LM	SEF	80	8126	8355	8584	8788	63.99	
				90	7081	7234	7438	7820	63.99	
			HEF	80	8100	8215	8584	8607	58.58	
				90	6623	6715	7061	7061	58.58	
		10000LM	SEF	80	9081	9338	9594	9822	73.37	
				90	7914	8085	8313	8740	73.37	
			HEF	80	9052	9181	9594	9620	66.27	
				90	7402	7505	7892	7892	66.27	
	L96	6000LM	SEF	80	5240	5387	5535	5667	38.15	
				90	4566	4665	4796	5042	38.15	
			HEF	80	5223	5297	5535	5550	35.54	
				90	4270	4330	4553	4553	35.54	
			8000LM	SEF	80	6991	7189	7386	7561	52.32
					90	6093	6224	6400	6728	52.32
		HEF		80	6969	7068	7386	7406	48.5	
				90	5698	5778	6075	6075	48.5	
		10000LM	SEF	80	8649	8893	9137	9354	66.47	
				90	7537	7700	7917	8323	66.47	
			HEF	80	8621	8744	9137	9161	60.89	
				90	7049	7147	7516	7516	60.89	
		14000LM	SEF	80	12630	12986	13342	13659	94.78	
				90	11006	11244	11561	12154	94.78	
			HEF	80	12589	12768	13342	13378	85.96	
				90	10293	10437	10975	10975	85.96	
		18000LM	SEF	80	16276	16735	17194	17602	128.98	
				90	14184	14490	14898	15663	128.98	
			HEF	80	16223	16454	17194	17240	116.92	
				90	13265	13450	14143	14143	116.92	
		20000LM	SEF	80	17976	18483	18990	19441	146.83	
				90	15665	16004	16454	17300	146.83	
			HEF	80	17918	18173	18990	19041	131.6	
				90	14651	14855	15621	15621	131.6	



EDGE MINI

1" x 2" Suspended Direct Linear

Key Features

- Available with integral and remote driver options
- 6063-T5 Extruded aluminum housing
- Highly reflective die-formed white painted reflector
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed
- Approved for dry/damp location unless otherwise noted



Example Part #: EX12D-HE-N-830HO-26'-AC48G1-U-FSD-1-0-W

EX12D - DIRECT SHIELDING - N - INDIRECT SHIELDING - CRI, CCT & OUTPUT - LENGTH OR PATTERN - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH

---	N	---	---
DIRECT SHIELDING	INDIRECT SHIELDING	SOURCE ¹	LENGTH OR PATTERN ²
A - Satine Lens HE - High Efficiency Lens BW - Batwing Insert WHE - Asymmetric Insert HED - Descent Lens P - Parabolic Louver <i>Shielding pg. 2</i>	N - None <i>Shielding pg. 2</i>	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K CL - Custom Lumens CW - Custom Watts MOD - Mod options available <i>Lumen Output pg. 2</i>	--- - Individual Fixture --- - Continuous Row S - Square R_x - Rectangle L_x - L Shape U_x_x - U-Shape T_x - T-Shape X_x - X-Shape MOD - Mod options available <i>Length and Pattern pg. 3</i>
---	---	---	---
MOUNTING ³	VOLTAGE	DRIVER	CIRCUITING
AC - AC to Grid AC_JB - AC to J Box AC_ST - AC to Structure WA - Wall Mount S - Surface Mount AC5_G - 5" Non-Power Canopy AC5_JB - 5" Non-Power Canopy SQ_G - 5" Square Canopy SQ_JB - 5" Square Canopy <i>Mounting pg. 4</i>	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 4</i>	Integral Driver EL1 - ERP Power (1%, 0-10v, 120v or 277v) Remote Drivers FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) <i>Driver pg. 4</i>	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) <i>Circuiting pg. 5</i>
---	---	---	---
BATTERY & EMERGENCY ⁴	FINISH	FIXTURE OPTIONS ⁵	CONTROLS
0 - None FSB - Factory Select Battery FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD ILL - Iota 10w Integral PLL - Bodine 10W <i>Battery and Emergency pg. 5</i>	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i>	BA - Buy America(n) Act and/or Build America Buy America Compliant <i>Fixture Options pg. 6</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>

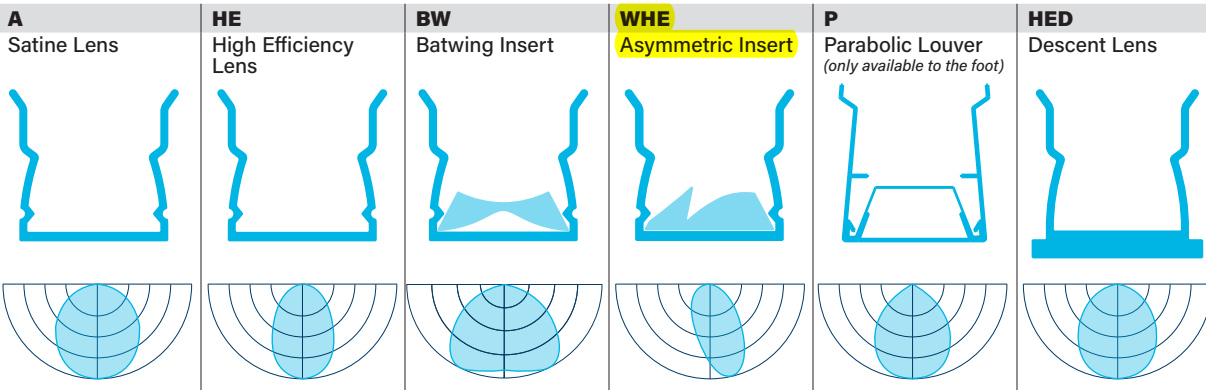
¹When specifying CRI- CCT & OUTPUT the first _ is for specifying either **8** - 80CRI or **9** - 90CRI. The ending _ are for specifying output, example **HO** - High Output. See output charts for more information. ²Individual fixtures come in 2', 3', 4', 5', 6', 7', & 8' lengths. Continuous row come in 1' increments. For Mod layouts Specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. ³Specify AC length standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot; All EX12 fixtures require a remote driver. Distance from Remote Box to Fixture cannot exceed 10ft. Based on the size and application of the remote box, specify RB (Remote Box) or RC (Remote Canopy) at the end of the Mounting portion of the part number. See page 3 for details. ⁴Enter quantity for Battery and Emergency, Example 2PLL. ⁵Compliance is configuration dependent; consult factory for confirmation.

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



Shielding

DIRECT



INDIRECT

N
None

Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory.
- 90 CRI = R9≥50

Custom Output - Lumens OR Wattage

CL _____	Specify CRI, CCT and desired lumens (i.e. CL835600)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify lumens between standard offering listed below. Lumens are specified per color temp

Direct 80 CRI

	Color	Lumens per foot	Shielding A		HE		BW		WHE		P		HED	
			Satine Lens LPW	Watts/ft	High Efficiency LPW	Watts/ft	Batwing LPW	Watts/ft	Asymmetric LPW	Watts/ft	Louver LPW	Watts/ft	Descent LPW	Watts/ft
830	3000K	500	92	5.4	116	4.3	84	5.9	101	4.9	73	6.9	102	4.9
830HO	3000K	750	94	8.0	115	6.5	86	8.7	103	7.3	73	10.3	101	7.4
830VHO	3000K	1000	93	10.7	118	8.5	84	11.9	105	9.5	70	14.3	103	9.7
835	3500K	500	95	5.2	119	4.2	87	5.8	105	4.8	73	6.8	103	4.9
835HO	3500K	750	97	7.7	119	6.3	88	8.5	107	7.0	75	10.0	105	7.2
835VHO	3500K	1000	97	10.4	122	8.2	87	11.5	107	9.3	73	13.8	106	9.4
840	4000K	500	95	5.2	119	4.2	87	5.8	105	4.8	73	6.8	103	4.9
840HO	4000K	750	97	7.7	119	6.3	88	8.5	107	7.0	75	10.0	105	7.2
840VHO	4000K	1000	97	10.4	122	8.2	87	11.5	107	9.3	73	13.8	106	9.4

Direct 90 CRI

927	2700K	500	74	6.7	96	5.2	70	7.2	84	6.0	60	8.4	82	6.1
927HO	2700K	750	77	9.8	97	7.7	70	10.7	86	8.8	58	12.9	84	9.0
927VHO	2700K	1000	74	13.5	97	10.3	68	14.6	84	12.0	N/A		82	12.2
930	3000K	500	81	6.1	102	4.9	74	6.7	91	5.5	65	7.7	89	5.6
930HO	3000K	750	83	9.0	104	7.2	77	9.8	93	8.1	64	11.8	91	8.2
930VHO	3000K	1000	81	12.3	106	9.4	74	13.5	93	10.8	63	16.0	91	11.0
935	3500K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
935HO	3500K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
935VHO	3500K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1
940	4000K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
940HO	4000K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
940VHO	4000K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1

Direct Source: MOD Options

- Specify MOD in the part number for any of the below options
- All RGB_ Source Options will require specific driver and control
- Consult factory for MOD specification details, pricing, and lead-time information

MOD TIR Optics

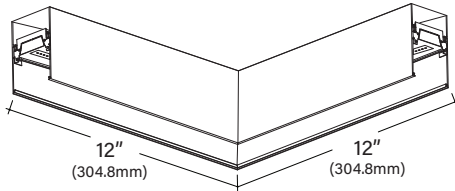


Length

- All individual units cannot be joined, end plates are factory installed and cannot be removed
- For Continuous Runs, 1/2" (12.7mm) to the overall length of the row to account for end caps
- For patterns, refer to Pattern section on next page
- P Shielding option only available to the foot

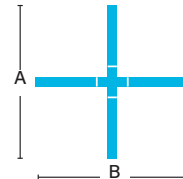
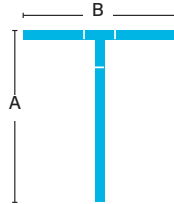
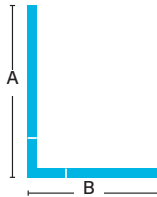
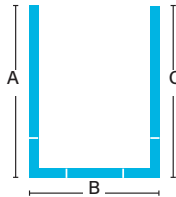
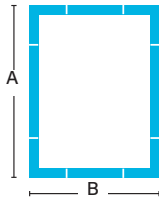
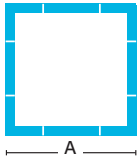
2	3	4	5	6	7	8	—
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal overall row length to the 1'
24" (609.6mm)							
	36" (914.4mm)						
		48" (1219.2mm)					
			60" (1524mm)				
				72" (1828.8mm)			
					84" (2133.6mm)		
						96" (2438.4mm)	
							Specify to the 1' >>>

Pattern

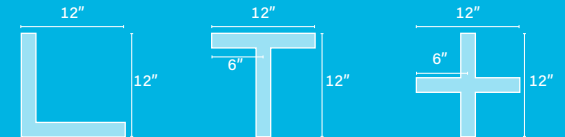


- Specify pattern shape and overall dimensions (includes corner dimensions)
- Refer to dimensions table below for available standard lengths
- All connectors are direct only
- 90 degree horizontal corners are 12"x12" (overall, outside dimension)
- Angles and shapes not shown require Mod Pattern; consult factory
- Only for HE Lens

S_	R_x_	U_x_x_	L_x_	T_x_	X_x_
Square Provide A dimension Example: S4' Minimum Length- 4'x4'	Rectangle Provide Ax B dimensions Example: R4'x4' Minimum Length- 4'x4'	U-Shape Provide Ax BxC dimensions Example: U3'x4'x3' Minimum Length- 3'x4'x3'	L-Shape Provide Ax B dimensions Example: L3'x3' Minimum Length- 3'x3'	T-Shape Provide Ax B dimensions Example: T3'x5' Minimum Length- 3'x5'	X-Shape Provide Ax B dimensions Example: X5'x5' Minimum Length- 5'x5'



Horizontal Details: Every Connection is 12" x 12" in Overall Dimension



Length or Pattern: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

MOD	Specify MOD for patterns, lengths or angles not shown above Hubs Connectors
-----	--------------------------------------------------------------------------------

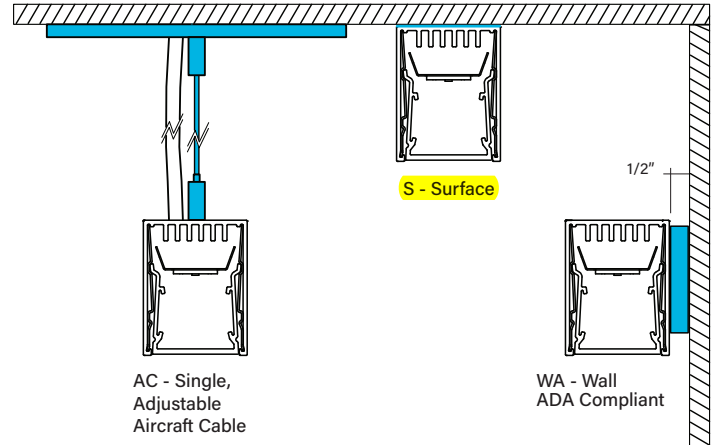


Mounting

- Specify cable length in ordering code (AC48G1)
- Standard specifiable lengths are 48", 120", 240" and 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4" (1219.2mm) and 8" (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies
- Canopies are painted to match fixture finish, power cords are white or black depending on fixture finish. See Finish section for additional details
- Approved for dry/damp location unless otherwise noted, PAC NOT rated for dry/damp

AC_G1	Aircraft Cable 1" (15/16") T-Bar
AC_G9	Aircraft Cable 9/16" T-Bar
AC_GS	Aircraft Cable Screw Slot T-Bar
AC_JB	Aircraft Cable Junction Box
AC_ST	Aircraft Cable Structure
AC5_G	Aircraft Cable 5" (127mm) Non-Power Canopy
AC5_JB	Aircraft Cable 5" (127mm) Non-Power Canopy
SQ_G	Aircraft Cable 5" (127mm) Square Canopy
SQ_JB	Aircraft Cable 5" (127mm) Square Canopy
WA	Wall Mount
S	Surface Mount

- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 20 lbs for a standard 4' fixture
- Remote box will be included for all specifications that include batteries, GTD, or a driver OTHER THAN the EL1. See Installation Instructions for more specific information about mounting



Voltage

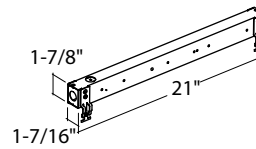
- Some EX12 configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

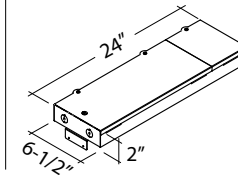
Driver

- Standard Driver Option = EL1
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some EX12D configurations will not accommodate all driver options; consult with factory
- EL1 driver is integral to the fixture housing. Remote box necessary for all drivers OTHER THAN the EL1 OR WITH BATTERY OPTION
- Osram and Lutron Drivers have a remote distance limitation of 10'
- eldoLED and Advance Drivers have an average remote distance limitation of 50'. Consult Factory for specific configurations

Slim Remote Box



Standard Remote Box



Integral Driver

EL1 ERP Power 1%, 0-10v, requires 120 or 277

Remote Driver

0-10V Drivers

FSD	Factory Select Driver (1%, 0-10v)
PL2	Signify Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v
OL2	eldoLED Optotronic, 1%, 0-10v
OL4	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v Linear
ES1	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic
ES2	eldoLED SOLOdrive 0-10v, 0.1% Linear

DALI Drivers

EE3	eldoLED ECOdrive .1%, DALI (logarithmic)
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)
OD1	eldoLED Optotronic 1%, DEXAL

Lutron Drivers

LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
------------	-----------------------------------------------------------

Alternate Drivers

PS1	Signify Advance Xitanium Step Dimming 50/100%
EH1	ELV 120v only, 0-10v universal

Slim Remote Box

Standard Output (STD),
High Output (HO)

Standard Output (STD),
High Output (HO)

All Configurations

All Configurations

Standard Remote Box

Very High Output (VHO), 90CRI
Options

Very High Output (VHO), 90CRI
Options

N/A

N/A

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

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EX12D_LED_SPEC_SEPTEMBER2025



How to specify Circuiting, Battery and Emergency

- 1
 - Select fixture circuiting from options below
 - Some EX12D configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit
M	Multi Circuit
E	Emergency Circuit only
N	Night Light Circuit only

- 2 + 3
 - Battery and emergency section options are available in addition to fixture circuit
 - Select battery and emergency section options below; factory shop drawing required
 - Some EX12D configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency If Required

0	No battery or specific emergency section required
---	---------------------------------------------------

Battery

- Battery will be remote mounted with driver.
- Select battery section type if required, indicate total QTY. *Example 2PL*
- 90 minute battery runtime; test button is remote to fixture and requires an additional drop
- Battery not available for lengths under 4'
- Entire direct fixture housing is on battery for lengths up to 5'
- Half of direct fixture is on battery for 6', 7' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide

0	No Battery
_FSB	Factory Select Battery (10w option, remote in box)
_FSBST	Factory Select Battery (10w, Self Testing, remote in box)
_PLL	Bodine 10w Integral (remote in box)
_ILL	Iota 10w Integral (Self Testing, remote in box)
_PRH	Bodine 20w (remote with conduit)
_IRH	Iota 20w (remote with conduit)

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

Emergency

- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options are selected

_FSG	Factory Select ALCR, Emergency Control Device, UNV
_GI	Iota ETS-DR, Emergency Transfer Switch, UNV
_GB	Bodine GTD, Generator Transfer Device, 120v or 277v
_E	Emergency circuit section
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE

Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery Ordering Code: 1-1PL
- Emergency only, 10w Integral Battery Ordering Code: E-1PLL
- Single circuit, GTD required Ordering Code: 1-1GB

Finish

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

W	White (white cord/white canopy)
S	Metallic Silver (white cord/silver canopy)
BL	Textured Black (black cord/black canopy)
BR	Bronze (white cord/bronze canopy)
GR	Graphite (white cord/graphite canopy)
CC	Custom Color (white cord/color match canopy)

Fixture Options

- Domestic content option - compliance is configuration dependent; consult factory for conformation

BA	Buy America(n) Act and/or Build America Buy America Compliant
----	---------------------------------------------------------------

Controls

- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

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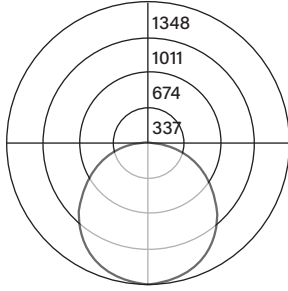
EX12D_LED_SPEC_SEPTEMBER2025



Photometrics

High Efficiency Lens

Test #	Scaled from KPL2015-57
Catalog #	EX12D-A-840VHO-4
Lumens	3819
Watts	39.7
Efficacy	96 LPW



Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1337	1337	1337	1337	1337
5	1325	1337	1328	1330	1329
10	1308	1320	1310	1312	1311
15	1279	1290	1280	1281	1280
20	1239	1249	1240	1240	1239
25	1189	1197	1189	1186	1186
30	1128	1136	1128	1123	1122
35	1059	1068	1057	1053	1052
40	983	986	978	972	970
45	899	899	892	883	881
50	806	805	796	789	769
55	704	705	696	687	685
60	599	597	590	580	581
65	491	488	477	470	470
70	375	373	365	359	357
75	258	258	250	247	245
80	153	150	146	143	145
85	66	64	61	59	58
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28469	28277	27921
55	27516	27172	26738
65	26044	25293	24939
75	22355	21618	21227
85	17058	15632	14873

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions

Applications & Certificates

Construction: 6063-T5 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

Shielding: Diffuse snap-in acrylic lens with matte finish, removable for maintenance.

Mounting: Aircraft cable, wall and **surface mount** available. The aircraft cable that mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. Luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. Lifetime Projection L70 = 254,800 hours and L90 = 80,200 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Output: Not all lumen packages available. Three lumen packages available. Standard, High (HO) and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K and 4000K. 90 CRI = R9≥50.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify PL4 or OL4 in Driver section when 347 volt (3) is selected. Some EDGE configurations will not accommodate all voltage options; consult with factory.

Driver: Standard INTEGRAL Driver Option is EL1. All other driver options will be in remote box. EL1 designed for use with 120v or 277v only. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 128°F/54°C. When ND is specified, a spec grade driver will be provided. For more driver options, see Pinnacle Resource Guide. Some configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Multi circuit (M), Emergency circuit (E) or Night Light circuit (N). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some EX configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is remote to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. Canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

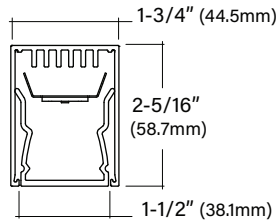
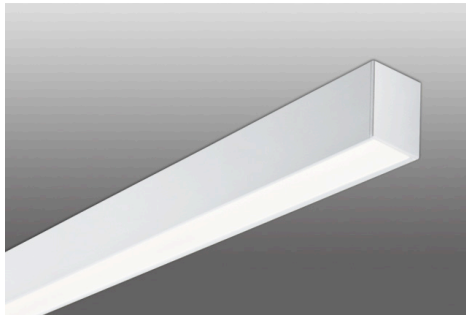
Controls: Mod options available, consult with factory.

Buy America Act (BAA) and Build America, Buy America Act (BABA) Compliance: BAA and/or BABA compliance options are available to support federally funded projects requiring domestic content. Availability depends on configuration; Compliance is configuration-dependent; consult factory for confirmation.

Labels: UL and cUL 1598 listed. Standard and HO lumen packages are approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 10 lbs for a standard 4' fixture.

Warranty: EX LED offered with a 5-year limited warranty. Covers LED, driver and fixture.



EDGE MINI

1" x 2" Suspended Direct Linear

Key Features

- Available with integral and remote driver options
- 6063-T5 Extruded aluminum housing
- Highly reflective die-formed white painted reflector
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed
- Approved for dry/damp location unless otherwise noted



Example Part #: EX12D-HE-N-830HO-26'-AC48G1-U-FSD-1-0-W

EX12D - **DIRECT SHIELDING** - **N** - **INDIRECT SHIELDING** - **CRI, CCT & OUTPUT** - **LENGTH OR PATTERN** - **MOUNTING** - **VOLTAGE** - **DRIVER** - **CIRCUITING** - **BATTERY & EMERGENCY** - **FINISH**

---	N	---	---
DIRECT SHIELDING	INDIRECT SHIELDING	SOURCE ¹	LENGTH OR PATTERN ²
A - Satine Lens HE - High Efficiency Lens BW - Batwing Insert WHE - Asymmetric Insert HED - Descent Lens P - Parabolic Louver <i>Shielding pg. 2</i>	N - None <i>Shielding pg. 2</i>	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K CL - Custom Lumens CW - Custom Watts MOD - Mod options available <i>Lumen Output pg. 2</i>	--- - Individual Fixture --- - Continuous Row S - Square R_x - Rectangle L_x - L Shape U_x_x - U-Shape T_x - T-Shape X_x - X-Shape MOD - Mod options available <i>Length and Pattern pg. 3</i>
---	---	---	---
MOUNTING ³	VOLTAGE	DRIVER	CIRCUITING
AC - AC to Grid AC - AC to J Box AC - AC to Structure WA - Wall Mount S - Surface Mount AC5 - 5" Non-Power Canopy AC5 - 5" Non-Power Canopy SQ - 5" Square Canopy SQ - 5" Square Canopy <i>Mounting pg. 4</i>	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 4</i>	Integral Driver EL1 - ERP Power (1%, 0-10v, 120v or 277v) Remote Drivers FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) <i>Driver pg. 4</i>	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) <i>Circuiting pg. 5</i>
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BATTERY & EMERGENCY ⁴	FINISH	FIXTURE OPTIONS ⁵	CONTROLS
0 - None FSB - Factory Select Battery FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD ILL - Iota 10w Integral PLL - Bodine 10W <i>Battery and Emergency pg. 5</i>	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i>	BA - Buy America(n) Act and/or Build America Buy America Compliant <i>Fixture Options pg. 6</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>

¹When specifying CRI- CCT & OUTPUT the first _ is for specifying either **8** - 80CRI or **9** - 90CRI. The ending _ are for specifying output, example **HO** - High Output. See output charts for more information. ²Individual fixtures come in 2', 3', 4', 5', 6', 7', & 8' lengths. Continuous row come in 1' increments. For Mod layouts Specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. ³Specify AC length standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot; All EX12 fixtures require a remote driver. Distance from Remote Box to Fixture cannot exceed 10ft. Based on the size and application of the remote box, specify RB (Remote Box) or RC (Remote Canopy) at the end of the Mounting portion of the part number. See page 3 for details. ⁴Enter quantity for Battery and Emergency, Example 2PLL. ⁵Compliance is configuration dependent; consult factory for confirmation.

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Shielding

DIRECT

A	HE	BW	WHE	P	HED
Satine Lens	High Efficiency Lens	Batwing Insert	Asymmetric Insert	Parabolic Louver (only available to the foot)	Descent Lens

INDIRECT

N
None

Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory.
- 90 CRI = R9≥50

Custom Output - Lumens OR Wattage

CL _____	Specify CRI, CCT and desired lumens (i.e. CL835600)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify lumens between standard offering listed below. Lumens are specified per color temp

Direct 80 CRI

	Color	Lumens per foot	Shielding		HE		BW		WHE		P		HED	
			A Satine Lens		High Efficiency		Batwing		Asymmetric		Louver		Descent	
			LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft
830	3000K	500	92	5.4	116	4.3	84	5.9	101	4.9	73	6.9	102	4.9
830HO	3000K	750	94	8.0	115	6.5	86	8.7	103	7.3	73	10.3	101	7.4
830VHO	3000K	1000	93	10.7	118	8.5	84	11.9	105	9.5	70	14.3	103	9.7
835	3500K	500	95	5.2	119	4.2	87	5.8	105	4.8	73	6.8	103	4.9
835HO	3500K	750	97	7.7	119	6.3	88	8.5	107	7.0	75	10.0	105	7.2
835VHO	3500K	1000	97	10.4	122	8.2	87	11.5	107	9.3	73	13.8	106	9.4
840	4000K	500	95	5.2	119	4.2	87	5.8	105	4.8	73	6.8	103	4.9
840HO	4000K	750	97	7.7	119	6.3	88	8.5	107	7.0	75	10.0	105	7.2
840VHO	4000K	1000	97	10.4	122	8.2	87	11.5	107	9.3	73	13.8	106	9.4

Direct 90 CRI

927	2700K	500	74	6.7	96	5.2	70	7.2	84	6.0	60	8.4	82	6.1
927HO	2700K	750	77	9.8	97	7.7	70	10.7	86	8.8	58	12.9	84	9.0
927VHO	2700K	1000	74	13.5	97	10.3	68	14.6	84	12.0	N/A		82	12.2
930	3000K	500	81	6.1	102	4.9	74	6.7	91	5.5	65	7.7	89	5.6
930HO	3000K	750	83	9.0	104	7.2	77	9.8	93	8.1	64	11.8	91	8.2
930VHO	3000K	1000	81	12.3	106	9.4	74	13.5	93	10.8	63	16.0	91	11.0
935	3500K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
935HO	3500K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
935VHO	3500K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1
940	4000K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
940HO	4000K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
940VHO	4000K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1

Direct Source: MOD Options

- Specify MOD in the part number for any of the below options
- All RGB_ Source Options will require specific driver and control
- Consult factory for MOD specification details, pricing, and lead-time information

MOD TIR Optics

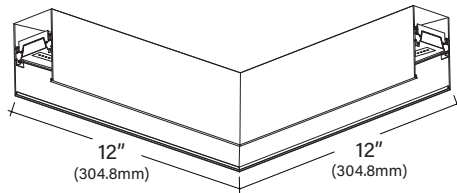


Length

- All individual units cannot be joined, end plates are factory installed and cannot be removed
- For Continuous Runs, 1/2" (12.7mm) to the overall length of the row to account for end caps
- For patterns, refer to Pattern section on next page
- P Shielding option only available to the foot

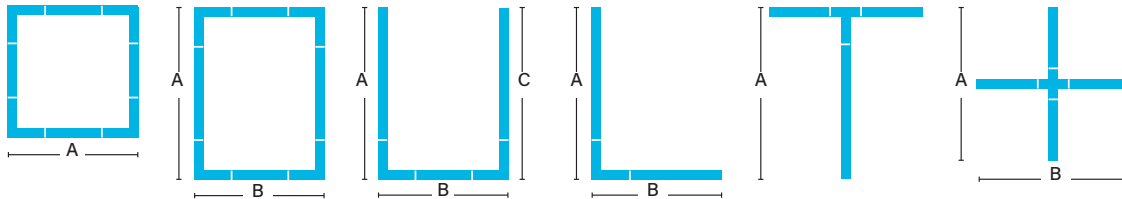
2	3	4	5	6	7	8	—
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal overall row length to the 1'
24" (609.6mm)							
	36" (914.4mm)						
		48" (1219.2mm)					
			60" (1524mm)				
				72" (1828.8mm)			
					84" (2133.6mm)		
						96" (2438.4mm)	
							Specify to the 1' >>>

Pattern

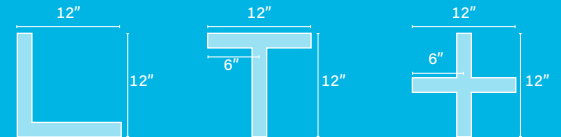


- Specify pattern shape and overall dimensions (includes corner dimensions)
- Refer to dimensions table below for available standard lengths
- All connectors are direct only
- 90 degree horizontal corners are 12"x12" (overall, outside dimension)
- Angles and shapes not shown require Mod Pattern; consult factory
- Only for HE Lens

S_	R_x_	U_x_x_	L_x_	T_x_	X_x_
Square Provide A dimension Example: S4' Minimum Length- 4'x4'	Rectangle Provide Ax B dimensions Example: R4'x4' Minimum Length- 4'x4'	U-Shape Provide Ax BxC dimensions Example: U3'x4'x3' Minimum Length- 3'x4'x3'	L-Shape Provide Ax B dimensions Example: L3'x3' Minimum Length- 3'x3'	T-Shape Provide Ax B dimensions Example: T3'x5' Minimum Length- 3'x5'	X-Shape Provide Ax B dimensions Example: X5'x5' Minimum Length- 5'x5'



Horizontal Details: Every Connection is 12" x 12" in Overall Dimension



Length or Pattern: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

MOD	Specify MOD for patterns, lengths or angles not shown above Hubs Connectors
-----	--------------------------------------------------------------------------------

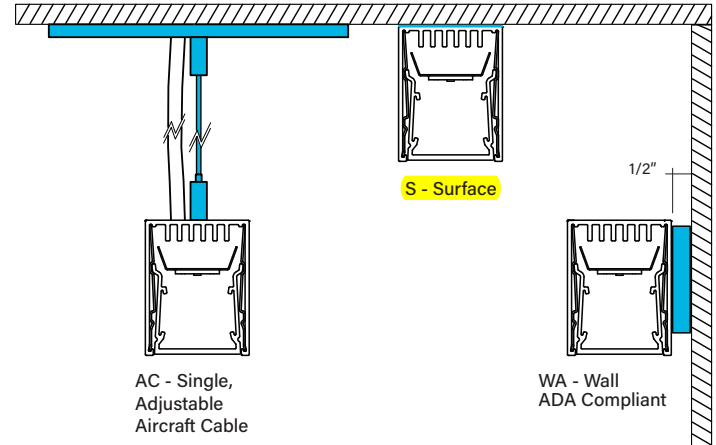


Mounting

- Specify cable length in ordering code (AC48G1)
- Standard specifiable lengths are 48", 120", 240" and 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4" (1219.2mm) and 8" (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies
- Canopies are painted to match fixture finish, power cords are white or black depending on fixture finish. See Finish section for additional details
- Approved for dry/damp location unless otherwise noted, PAC NOT rated for dry/damp

AC_G1	Aircraft Cable 1" (15/16") T-Bar
AC_G9	Aircraft Cable 9/16" T-Bar
AC_GS	Aircraft Cable Screw Slot T-Bar
AC_JB	Aircraft Cable Junction Box
AC_ST	Aircraft Cable Structure
AC5_G	Aircraft Cable 5" (127mm) Non-Power Canopy
AC5_JB	Aircraft Cable 5" (127mm) Non-Power Canopy
SQ_G	Aircraft Cable 5" (127mm) Square Canopy
SQ_JB	Aircraft Cable 5" (127mm) Square Canopy
WA	Wall Mount
S	Surface Mount

- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 20 lbs for a standard 4' fixture
- Remote box will be included for all specifications that include batteries, GTD, or a driver OTHER THAN the EL1. See Installation Instructions for more specific information about mounting



Voltage

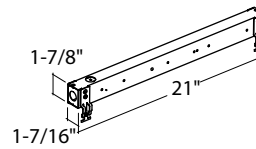
- Some EX12 configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

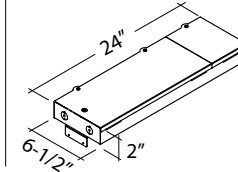
Driver

- Standard Driver Option = EL1
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some EX12D configurations will not accommodate all driver options; consult with factory
- EL1 driver is integral to the fixture housing. Remote box necessary for all drivers OTHER THAN the EL1 OR WITH BATTERY OPTION
- Osram and Lutron Drivers have a remote distance limitation of 10'
- eldoLED and Advance Drivers have an average remote distance limitation of 50'. Consult Factory for specific configurations

Slim Remote Box



Standard Remote Box



Integral Driver

EL1 ERP Power 1%, 0-10v, requires 120 or 277

Remote Driver

0-10V Drivers

FSD	Factory Select Driver (1%, 0-10v)
PL2	Signify Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v
OL2	eldoLED Optotronic, 1%, 0-10v
OL4	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v Linear
ES1	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic
ES2	eldoLED SOLOdrive 0-10v, 0.1% Linear

DALI Drivers

EE3	eldoLED ECOdrive .1%, DALI (logarithmic)
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)
OD1	eldoLED Optotronic 1%, DEXAL

Lutron Drivers

LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
------------	-----------------------------------------------------------

Alternate Drivers

PS1	Signify Advance Xitanium Step Dimming 50/100%
EH1	ELV 120v only, 0-10v universal

Slim Remote Box

Standard Output (STD),
High Output (HO)

Standard Output (STD),
High Output (HO)

All Configurations

All Configurations

Standard Remote Box

Very High Output (VHO), 90CRI
Options

Very High Output (VHO), 90CRI
Options

N/A

N/A

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EX12D_LED_SPEC_SEPTEMBER2025



How to specify Circuiting, Battery and Emergency

- 1
 - Select fixture circuiting from options below
 - Some EX12D configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit
M	Multi Circuit
E	Emergency Circuit only
N	Night Light Circuit only

- 2 + 3
 - Battery and emergency section options are available in addition to fixture circuit
 - Select battery and emergency section options below; factory shop drawing required
 - Some EX12D configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency If Required

0	No battery or specific emergency section required
---	---------------------------------------------------

Battery

- Battery will be remote mounted with driver.
- Select battery section type if required, indicate total QTY. *Example 2PL*
- 90 minute battery runtime; test button is remote to fixture and requires an additional drop

- Battery not available for lengths under 4'
- Entire direct fixture housing is on battery for lengths up to 5'
- Half of direct fixture is on battery for 6', 7' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide

0	No Battery
_FSB	Factory Select Battery (10w option, remote in box)
_FSBST	Factory Select Battery (10w, Self Testing, remote in box)
_PLL	Bodine 10w Integral (remote in box)
_ILL	Iota 10w Integral (Self Testing, remote in box)
_PRH	Bodine 20w (remote with conduit)
_IRH	Iota 20w (remote with conduit)

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

Emergency

- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options are selected

_FSG	Factory Select ALCR, Emergency Control Device, UNV
_GI	Iota ETS-DR, Emergency Transfer Switch, UNV
_GB	Bodine GTD, Generator Transfer Device, 120v or 277v
_E	Emergency circuit section
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE

Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery Ordering Code: 1-1PL
- Emergency only, 10w Integral Battery Ordering Code: E-1PLL
- Single circuit, GTD required Ordering Code: 1-1GB

Finish

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

W	White (white cord/white canopy)
S	Metallic Silver (white cord/silver canopy)
BL	Textured Black (black cord/black canopy)
BR	Bronze (white cord/bronze canopy)
GR	Graphite (white cord/graphite canopy)
CC	Custom Color (white cord/color match canopy)

Fixture Options

- Domestic content option - compliance is configuration dependent; consult factory for conformation

BA	Buy America(n) Act and/or Build America Buy America Compliant
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Controls

- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

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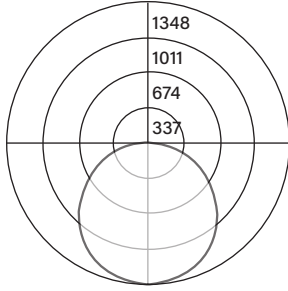
EX12D_LED_SPEC_SEPTEMBER2025



Photometrics

High Efficiency Lens

Test #	Scaled from KPL2015-57
Catalog #	EX12D-A-840VHO-4
Lumens	3819
Watts	39.7
Efficacy	96 LPW



Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1337	1337	1337	1337	1337
5	1325	1337	1328	1330	1329
10	1308	1320	1310	1312	1311
15	1279	1290	1280	1281	1280
20	1239	1249	1240	1240	1239
25	1189	1197	1189	1186	1186
30	1128	1136	1128	1123	1122
35	1059	1068	1057	1053	1052
40	983	986	978	972	970
45	899	899	892	883	881
50	806	805	796	789	769
55	704	705	696	687	685
60	599	597	590	580	581
65	491	488	477	470	470
70	375	373	365	359	357
75	258	258	250	247	245
80	153	150	146	143	145
85	66	64	61	59	58
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28469	28277	27921
55	27516	27172	26738
65	26044	25293	24939
75	22355	21618	21227
85	17058	15632	14873

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions

Applications & Certificates

Construction: 6063-T5 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

Shielding: Diffuse snap-in acrylic lens with matte finish, removable for maintenance.

Mounting: Aircraft cable, wall and **surface mount** available. The aircraft cable that mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. Luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. Lifetime Projection L70 = 254,800 hours and L90 = 80,200 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Output: Not all lumen packages available. Three lumen packages available. Standard, High (HO) and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K and 4000K. 90 CRI = R9≥50.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify PL4 or OL4 in Driver section when 347 volt (3) is selected. Some EDGE configurations will not accommodate all voltage options; consult with factory.

Driver: Standard INTEGRAL Driver Option is EL1. All other driver options will be in remote box. EL1 designed for use with 120v or 277v only. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 128°F/54°C. When ND is specified, a spec grade driver will be provided. For more driver options, see Pinnacle Resource Guide. Some configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Multi circuit (M), Emergency circuit (E) or Night Light circuit (N). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some EX configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is remote to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. Canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

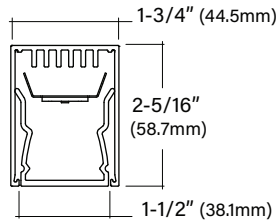
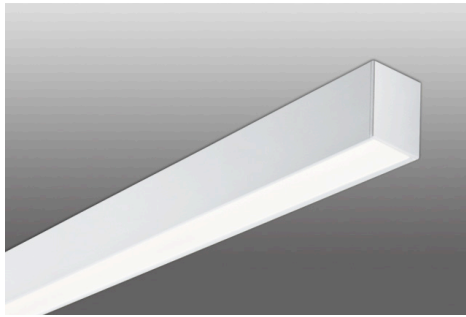
Controls: Mod options available, consult with factory.

Buy America Act (BAA) and Build America, Buy America Act (BABA) Compliance: BAA and/or BABA compliance options are available to support federally funded projects requiring domestic content. Availability depends on configuration; Compliance is configuration-dependent; consult factory for confirmation.

Labels: UL and cUL 1598 listed. Standard and HO lumen packages are approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 10 lbs for a standard 4' fixture.

Warranty: EX LED offered with a 5-year limited warranty. Covers LED, driver and fixture.



EDGE MINI

1" x 2" Suspended Direct Linear

Key Features

- Available with integral and remote driver options
- 6063-T5 Extruded aluminum housing
- Highly reflective die-formed white painted reflector
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed
- Approved for dry/damp location unless otherwise noted



Example Part #: EX12D-HE-N-830HO-26'-AC48G1-U-FSD-1-0-W

EX12D - DIRECT SHIELDING - N - INDIRECT SHIELDING - CRI, CCT & OUTPUT - LENGTH OR PATTERN - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH

---	N	---	---
DIRECT SHIELDING	INDIRECT SHIELDING	SOURCE ¹	LENGTH OR PATTERN ²
A - Satine Lens HE - High Efficiency Lens BW - Batwing Insert WHE - Asymmetric Insert HED - Descent Lens P - Parabolic Louver <i>Shielding pg. 2</i>	N - None <i>Shielding pg. 2</i>	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K CL - Custom Lumens CW - Custom Watts MOD - Mod options available <i>Lumen Output pg. 2</i>	--- - Individual Fixture --- - Continuous Row S - Square R_x - Rectangle L_x - L Shape U_x_x - U-Shape T_x - T-Shape X_x - X-Shape MOD - Mod options available <i>Length and Pattern pg. 3</i>
---	---	---	---
MOUNTING ³	VOLTAGE	DRIVER	CIRCUITING
AC - AC to Grid AC - AC to J Box AC - AC to Structure WA - Wall Mount S - Surface Mount AC5 - 5" Non-Power Canopy AC5 - 5" Non-Power Canopy SQ - 5" Square Canopy SQ - 5" Square Canopy <i>Mounting pg. 4</i>	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 4</i>	Integral Driver EL1 - ERP Power (1%, 0-10v, 120v or 277v) Remote Drivers FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) <i>Driver pg. 4</i>	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) <i>Circuiting pg. 5</i>
---	---	---	---
BATTERY & EMERGENCY ⁴	FINISH	FIXTURE OPTIONS ⁵	CONTROLS
0 - None FSB - Factory Select Battery FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD ILL - Iota 10w Integral PLL - Bodine 10W <i>Battery and Emergency pg. 5</i>	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i>	BA - Buy America(n) Act and/or Build America Buy America Compliant <i>Fixture Options pg. 6</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>

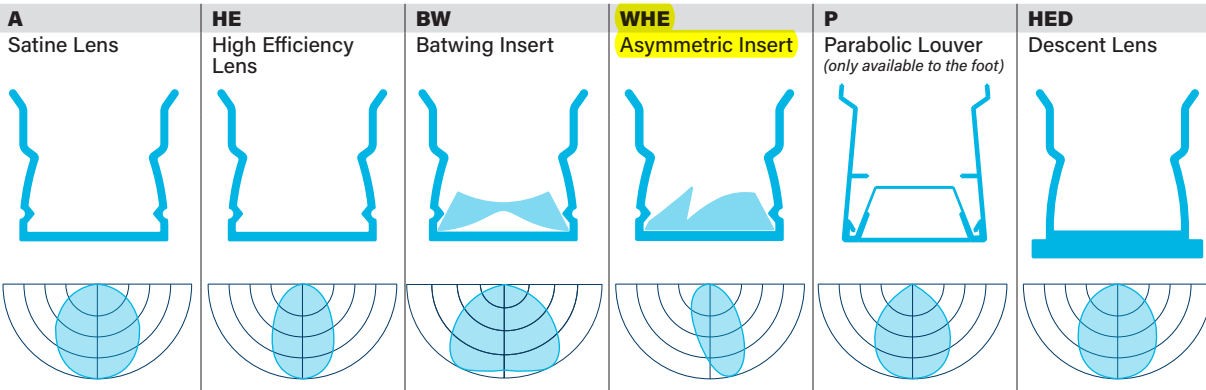
¹When specifying CRI- CCT & OUTPUT the first _ is for specifying either 8 - 80CRI or 9 - 90CRI. The ending _ are for specifying output, example HO - High Output. See output charts for more information. ²Individual fixtures come in 2', 3', 4', 5', 6', 7', & 8' lengths. Continuous row come in 1' increments. For Mod layouts Specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. ³Specify AC length standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot; All EX12 fixtures require a remote driver. Distance from Remote Box to Fixture cannot exceed 10ft. Based on the size and application of the remote box, specify RB (Remote Box) or RC (Remote Canopy) at the end of the Mounting portion of the part number. See page 3 for details. ⁴Enter quantity for Battery and Emergency, Example 2PLL. ⁵Compliance is configuration dependent; consult factory for confirmation.

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Shielding

DIRECT



INDIRECT

N
None

Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory.
- 90 CRI = R9≥50

Custom Output - Lumens OR Wattage

CL _____	Specify CRI, CCT and desired lumens (i.e. CL835600)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify lumens between standard offering listed below. Lumens are specified per color temp

Direct 80 CRI

	Color	Lumens per foot	Shielding A		HE		BW		WHE		P		HED	
			Satine Lens LPW	Watts/ft	High Efficiency LPW	Watts/ft	Batwing LPW	Watts/ft	Asymmetric LPW	Watts/ft	Louver LPW	Watts/ft	Descent LPW	Watts/ft
830	3000K	500	92	5.4	116	4.3	84	5.9	101	4.9	73	6.9	102	4.9
830HO	3000K	750	94	8.0	115	6.5	86	8.7	103	7.3	73	10.3	101	7.4
830VHO	3000K	1000	93	10.7	118	8.5	84	11.9	105	9.5	70	14.3	103	9.7
835	3500K	500	95	5.2	119	4.2	87	5.8	105	4.8	73	6.8	103	4.9
835HO	3500K	750	97	7.7	119	6.3	88	8.5	107	7.0	75	10.0	105	7.2
835VHO	3500K	1000	97	10.4	122	8.2	87	11.5	107	9.3	73	13.8	106	9.4
840	4000K	500	95	5.2	119	4.2	87	5.8	105	4.8	73	6.8	103	4.9
840HO	4000K	750	97	7.7	119	6.3	88	8.5	107	7.0	75	10.0	105	7.2
840VHO	4000K	1000	97	10.4	122	8.2	87	11.5	107	9.3	73	13.8	106	9.4

Direct 90 CRI

927	2700K	500	74	6.7	96	5.2	70	7.2	84	6.0	60	8.4	82	6.1
927HO	2700K	750	77	9.8	97	7.7	70	10.7	86	8.8	58	12.9	84	9.0
927VHO	2700K	1000	74	13.5	97	10.3	68	14.6	84	12.0	N/A		82	12.2
930	3000K	500	81	6.1	102	4.9	74	6.7	91	5.5	65	7.7	89	5.6
930HO	3000K	750	83	9.0	104	7.2	77	9.8	93	8.1	64	11.8	91	8.2
930VHO	3000K	1000	81	12.3	106	9.4	74	13.5	93	10.8	63	16.0	91	11.0
935	3500K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
935HO	3500K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
935VHO	3500K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1
940	4000K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
940HO	4000K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
940VHO	4000K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1

Direct Source: MOD Options

- Specify MOD in the part number for any of the below options
- All RGB_ Source Options will require specific driver and control
- Consult factory for MOD specification details, pricing, and lead-time information

MOD TIR Optics

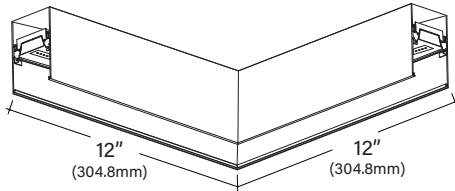


Length

- All individual units cannot be joined, end plates are factory installed and cannot be removed
- For Continuous Runs, 1/2" (12.7mm) to the overall length of the row to account for end caps
- For patterns, refer to Pattern section on next page
- P Shielding option only available to the foot

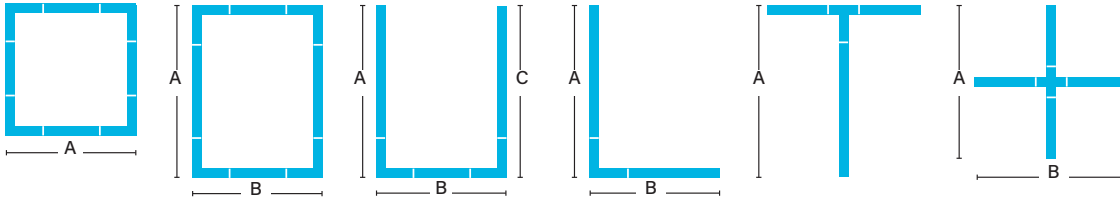
2	3	4	5	6	7	8	—
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal overall row length to the 1'
24" (609.6mm)							
	36" (914.4mm)						
		48" (1219.2mm)					
			60" (1524mm)				
				72" (1828.8mm)			
					84" (2133.6mm)		
						96" (2438.4mm)	
							Specify to the 1' >>>

Pattern

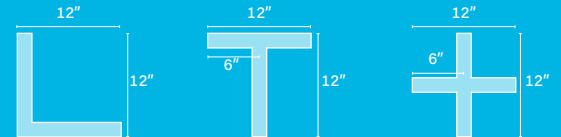


- Specify pattern shape and overall dimensions (includes corner dimensions)
- Refer to dimensions table below for available standard lengths
- All connectors are direct only
- 90 degree horizontal corners are 12"x12" (overall, outside dimension)
- Angles and shapes not shown require Mod Pattern; consult factory
- Only for HE Lens

S_	R_x_	U_x_x_	L_x_	T_x_	X_x_
Square Provide A dimension Example: S4' Minimum Length- 4'x4'	Rectangle Provide Ax B dimensions Example: R4'x4' Minimum Length- 4'x4'	U-Shape Provide Ax BxC dimensions Example: U3'x4'x3' Minimum Length- 3'x4'x3'	L-Shape Provide Ax B dimensions Example: L3'x3' Minimum Length- 3'x3'	T-Shape Provide Ax B dimensions Example: T3'x5' Minimum Length- 3'x5'	X-Shape Provide Ax B dimensions Example: X5'x5' Minimum Length- 5'x5'



Horizontal Details: Every Connection is 12" x 12" in Overall Dimension



Length or Pattern: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

MOD

Specify MOD for patterns, lengths or angles not shown above
Hubs Connectors

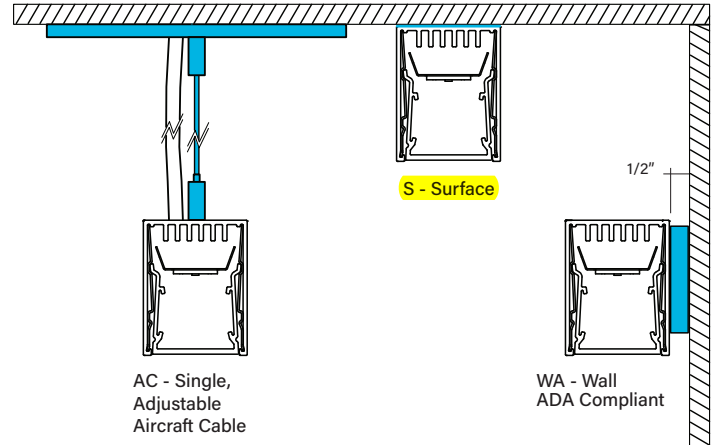


Mounting

- Specify cable length in ordering code (AC48G1)
- Standard specifiable lengths are 48", 120", 240" and 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4" (1219.2mm) and 8" (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies
- Canopies are painted to match fixture finish, power cords are white or black depending on fixture finish. See Finish section for additional details
- Approved for dry/damp location unless otherwise noted, PAC NOT rated for dry/damp

AC_G1	Aircraft Cable 1" (15/16") T-Bar
AC_G9	Aircraft Cable 9/16" T-Bar
AC_GS	Aircraft Cable Screw Slot T-Bar
AC_JB	Aircraft Cable Junction Box
AC_ST	Aircraft Cable Structure
AC5_G	Aircraft Cable 5" (127mm) Non-Power Canopy
AC5_JB	Aircraft Cable 5" (127mm) Non-Power Canopy
SQ_G	Aircraft Cable 5" (127mm) Square Canopy
SQ_JB	Aircraft Cable 5" (127mm) Square Canopy
WA	Wall Mount
S	Surface Mount

- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 20 lbs for a standard 4' fixture
- Remote box will be included for all specifications that include batteries, GTD, or a driver OTHER THAN the EL1. See Installation Instructions for more specific information about mounting



Voltage

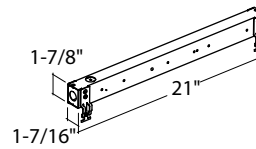
- Some EX12 configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

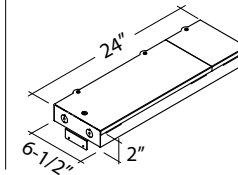
Driver

- Standard Driver Option = EL1
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some EX12D configurations will not accommodate all driver options; consult with factory
- EL1 driver is integral to the fixture housing. Remote box necessary for all drivers OTHER THAN the EL1 OR WITH BATTERY OPTION
- Osram and Lutron Drivers have a remote distance limitation of 10'
- eldoLED and Advance Drivers have an average remote distance limitation of 50'. Consult Factory for specific configurations

Slim Remote Box



Standard Remote Box



Integral Driver

EL1 ERP Power 1%, 0-10v, requires 120 or 277

Remote Driver

0-10V Drivers

FSD	Factory Select Driver (1%, 0-10v)
PL2	Signify Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v
OL2	eldoLED Optotronic, 1%, 0-10v
OL4	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v Linear
ES1	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic
ES2	eldoLED SOLOdrive 0-10v, 0.1% Linear

DALI Drivers

EE3	eldoLED ECOdrive .1%, DALI (logarithmic)
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)
OD1	eldoLED Optotronic 1%, DEXAL

Lutron Drivers

LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
------------	-----------------------------------------------------------

Alternate Drivers

PS1	Signify Advance Xitanium Step Dimming 50/100%
EH1	ELV 120v only, 0-10v universal

Slim Remote Box

Standard Output (STD),
High Output (HO)

Standard Output (STD),
High Output (HO)

All Configurations

All Configurations

Standard Remote Box

Very High Output (VHO), 90CRI
Options

Very High Output (VHO), 90CRI
Options

N/A

N/A

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EX12D_LED_SPEC_SEPTEMBER2025



How to specify Circuiting, Battery and Emergency

- 1
 - Select fixture circuiting from options below
 - Some EX12D configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit
M	Multi Circuit
E	Emergency Circuit only
N	Night Light Circuit only

- 2 + 3
 - Battery and emergency section options are available in addition to fixture circuit
 - Select battery and emergency section options below; factory shop drawing required
 - Some EX12D configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency If Required

0	No battery or specific emergency section required
---	---------------------------------------------------

Battery

- Battery will be remote mounted with driver.
- Select battery section type if required, indicate total QTY. *Example 2PL*
- 90 minute battery runtime; test button is remote to fixture and requires an additional drop
- Battery not available for lengths under 4'
- Entire direct fixture housing is on battery for lengths up to 5'
- Half of direct fixture is on battery for 6', 7' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide

0	No Battery
_FSB	Factory Select Battery (10w option, remote in box)
_FSBST	Factory Select Battery (10w, Self Testing, remote in box)
_PLL	Bodine 10w Integral (remote in box)
_ILL	Iota 10w Integral (Self Testing, remote in box)
_PRH	Bodine 20w (remote with conduit)
_IRH	Iota 20w (remote with conduit)

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

Emergency

- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options are selected

_FSG	Factory Select ALCR, Emergency Control Device, UNV
_GI	Iota ETS-DR, Emergency Transfer Switch, UNV
_GB	Bodine GTD, Generator Transfer Device, 120v or 277v
_E	Emergency circuit section
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE

Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery Ordering Code: 1-1PL
- Emergency only, 10w Integral Battery Ordering Code: E-1PLL
- Single circuit, GTD required Ordering Code: 1-1GB

Finish

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

W	White (white cord/white canopy)
S	Metallic Silver (white cord/silver canopy)
BL	Textured Black (black cord/black canopy)
BR	Bronze (white cord/bronze canopy)
GR	Graphite (white cord/graphite canopy)
CC	Custom Color (white cord/color match canopy)

Fixture Options

- Domestic content option - compliance is configuration dependent; consult factory for conformation

BA	Buy America(n) Act and/or Build America Buy America Compliant
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Controls

- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

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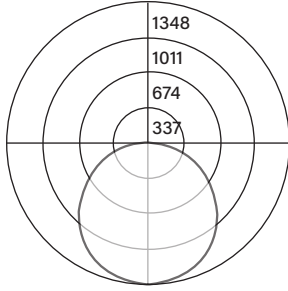
EX12D_LED_SPEC_SEPTEMBER2025



Photometrics

High Efficiency Lens

Test #	Scaled from KPL2015-57
Catalog #	EX12D-A-840VHO-4
Lumens	3819
Watts	39.7
Efficacy	96 LPW



Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1337	1337	1337	1337	1337
5	1325	1337	1328	1330	1329
10	1308	1320	1310	1312	1311
15	1279	1290	1280	1281	1280
20	1239	1249	1240	1240	1239
25	1189	1197	1189	1186	1186
30	1128	1136	1128	1123	1122
35	1059	1068	1057	1053	1052
40	983	986	978	972	970
45	899	899	892	883	881
50	806	805	796	789	769
55	704	705	696	687	685
60	599	597	590	580	581
65	491	488	477	470	470
70	375	373	365	359	357
75	258	258	250	247	245
80	153	150	146	143	145
85	66	64	61	59	58
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28469	28277	27921
55	27516	27172	26738
65	26044	25293	24939
75	22355	21618	21227
85	17058	15632	14873

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions

Applications & Certificates

Construction: 6063-T5 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

Shielding: Diffuse snap-in acrylic lens with matte finish, removable for maintenance.

Mounting: Aircraft cable, wall and **surface mount** available. The aircraft cable that mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. Luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. Lifetime Projection L70 = 254,800 hours and L90 = 80,200 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Output: Not all lumen packages available. Three lumen packages available. Standard, High (HO) and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K and 4000K. 90 CRI = R9≥50.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify PL4 or OL4 in Driver section when 347 volt (3) is selected. Some EDGE configurations will not accommodate all voltage options; consult with factory.

Driver: Standard INTEGRAL Driver Option is EL1. All other driver options will be in remote box. EL1 designed for use with 120v or 277v only. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 128°F/54°C. When ND is specified, a spec grade driver will be provided. For more driver options, see Pinnacle Resource Guide. Some configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Multi circuit (M), Emergency circuit (E) or Night Light circuit (N). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some EX configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is remote to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. Canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

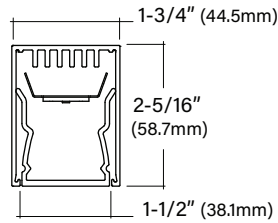
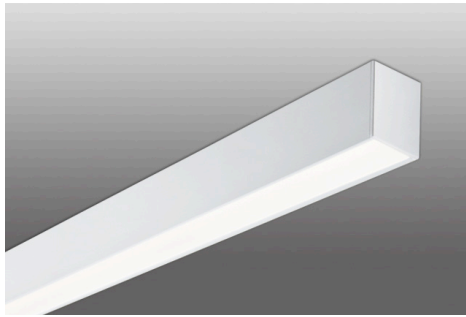
Controls: Mod options available, consult with factory.

Buy America Act (BAA) and Build America, Buy America Act (BABA) Compliance: BAA and/or BABA compliance options are available to support federally funded projects requiring domestic content. Availability depends on configuration; Compliance is configuration-dependent; consult factory for confirmation.

Labels: UL and cUL 1598 listed. Standard and HO lumen packages are approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 10 lbs for a standard 4' fixture.

Warranty: EX LED offered with a 5-year limited warranty. Covers LED, driver and fixture.



EDGE MINI

1" x 2" Suspended Direct Linear

Key Features

- Available with integral and remote driver options
- 6063-T5 Extruded aluminum housing
- Highly reflective die-formed white painted reflector
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed
- Approved for dry/damp location unless otherwise noted



Example Part #: EX12D-HE-N-830HO-26'-AC48G1-U-FSD-1-0-W

EX12D - **DIRECT SHIELDING** - **N** - **INDIRECT SHIELDING** - **CRI, CCT & OUTPUT** - **LENGTH OR PATTERN** - **MOUNTING** - **VOLTAGE** - **DRIVER** - **CIRCUITING** - **BATTERY & EMERGENCY** - **FINISH**

---	N	---	---
DIRECT SHIELDING	INDIRECT SHIELDING	SOURCE ¹	LENGTH OR PATTERN ²
A - Satine Lens HE - High Efficiency Lens BW - Batwing Insert WHE - Asymmetric Insert HED - Descent Lens P - Parabolic Louver <i>Shielding pg. 2</i>	N - None <i>Shielding pg. 2</i>	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K CL - Custom Lumens CW - Custom Watts MOD - Mod options available <i>Lumen Output pg. 2</i>	--- - Individual Fixture --- - Continuous Row S - Square R_x - Rectangle L_x - L Shape U_x_x - U-Shape T_x - T-Shape X_x - X-Shape MOD - Mod options available <i>Length and Pattern pg. 3</i>
---	---	---	---
MOUNTING ³	VOLTAGE	DRIVER	CIRCUITING
AC - AC to Grid AC - AC to J Box AC - AC to Structure WA - Wall Mount S - Surface Mount AC5 - 5" Non-Power Canopy AC5 - 5" Non-Power Canopy SQ - 5" Square Canopy SQ - 5" Square Canopy <i>Mounting pg. 4</i>	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 4</i>	Integral Driver EL1 - ERP Power (1%, 0-10v, 120v or 277v) Remote Drivers FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) <i>Driver pg. 4</i>	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) <i>Circuiting pg. 5</i>
---	---	---	---
BATTERY & EMERGENCY ⁴	FINISH	FIXTURE OPTIONS ⁵	CONTROLS
0 - None FSB - Factory Select Battery FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD ILL - Iota 10w Integral PLL - Bodine 10W <i>Battery and Emergency pg. 5</i>	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i>	BA - Buy America(n) Act and/or Build America Buy America Compliant <i>Fixture Options pg. 6</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>

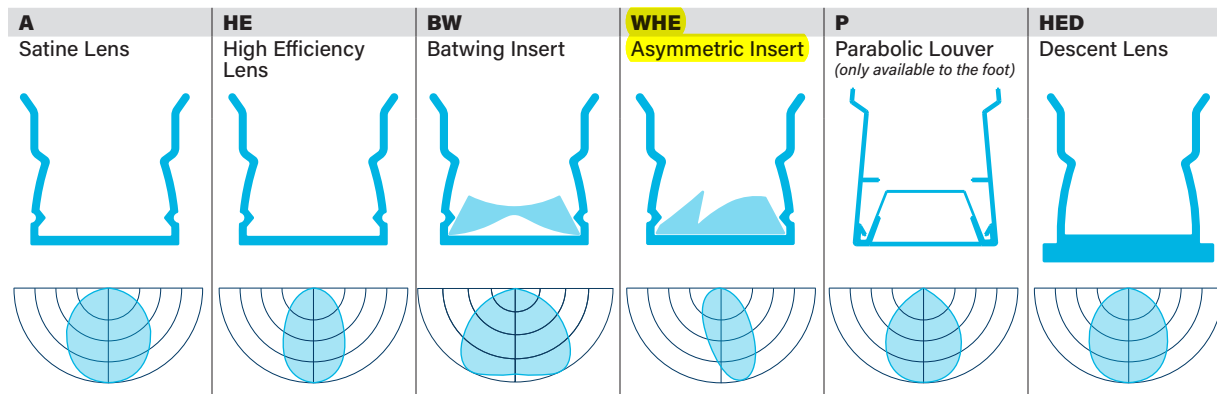
¹When specifying CRI- CCT & OUTPUT the first _ is for specifying either **8** - 80CRI or **9** - 90CRI. The ending _ are for specifying output, example **HO** - High Output. See output charts for more information. ²Individual fixtures come in 2', 3', 4', 5', 6', 7', & 8' lengths. Continuous row come in 1' increments. For Mod layouts Specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. ³Specify AC length standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot; All EX12 fixtures require a remote driver. Distance from Remote Box to Fixture cannot exceed 10ft. Based on the size and application of the remote box, specify RB (Remote Box) or RC (Remote Canopy) at the end of the Mounting portion of the part number. See page 3 for details. ⁴Enter quantity for Battery and Emergency, Example 2PLL. ⁵Compliance is configuration dependent; consult factory for confirmation.

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Shielding

DIRECT



INDIRECT

N
None

Output

- Specify either 80 or **90 CRI**
- Longer lead-time may apply for 90 CRI. Consult factory.
- 90 CRI = R9≥50**

Custom Output - Lumens OR Wattage

CL _____	Specify CRI, CCT and desired lumens (i.e. CL835600)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify lumens between standard offering listed below. Lumens are specified per color temp

Direct 80 CRI

	Color	Lumens per foot	Shielding		HE		BW		WHE		P		HED	
			A Satine Lens		High Efficiency		Batwing		Asymmetric		Louver		Descent	
			LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft	LPW	Watts/ft
830	3000K	500	92	5.4	116	4.3	84	5.9	101	4.9	73	6.9	102	4.9
830HO	3000K	750	94	8.0	115	6.5	86	8.7	103	7.3	73	10.3	101	7.4
830VHO	3000K	1000	93	10.7	118	8.5	84	11.9	105	9.5	70	14.3	103	9.7
835	3500K	500	95	5.2	119	4.2	87	5.8	105	4.8	73	6.8	103	4.9
835HO	3500K	750	97	7.7	119	6.3	88	8.5	107	7.0	75	10.0	105	7.2
835VHO	3500K	1000	97	10.4	122	8.2	87	11.5	107	9.3	73	13.8	106	9.4
840	4000K	500	95	5.2	119	4.2	87	5.8	105	4.8	73	6.8	103	4.9
840HO	4000K	750	97	7.7	119	6.3	88	8.5	107	7.0	75	10.0	105	7.2
840VHO	4000K	1000	97	10.4	122	8.2	87	11.5	107	9.3	73	13.8	106	9.4

Direct 90 CRI

927	2700K	500	74	6.7	96	5.2	70	7.2	84	6.0	60	8.4	82	6.1
927HO	2700K	750	77	9.8	97	7.7	70	10.7	86	8.8	58	12.9	84	9.0
927VHO	2700K	1000	74	13.5	97	10.3	68	14.6	84	12.0	N/A		82	12.2
930	3000K	500	81	6.1	102	4.9	74	6.7	91	5.5	65	7.7	89	5.6
930HO	3000K	750	83	9.0	104	7.2	77	9.8	93	8.1	64	11.8	91	8.2
930VHO	3000K	1000	81	12.3	106	9.4	74	13.5	93	10.8	63	16.0	91	11.0
935	3500K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
935HO	3500K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
935VHO	3500K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1
940	4000K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
940HO	4000K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
940VHO	4000K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1

Direct Source: MOD Options

- Specify **MOD** in the part number for any of the below options
- All RGB_ Source Options will require specific driver and control
- Consult factory for **MOD** specification details, pricing, and lead-time information

MOD TIR Optics

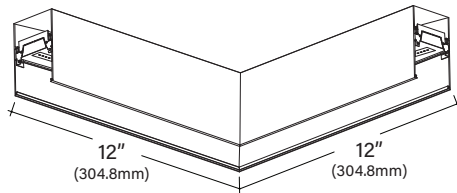


Length

- All individual units cannot be joined, end plates are factory installed and cannot be removed
- For Continuous Runs, 1/2" (12.7mm) to the overall length of the row to account for end caps
- For patterns, refer to Pattern section on next page
- P Shielding option only available to the foot

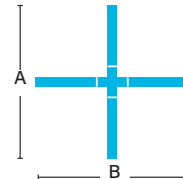
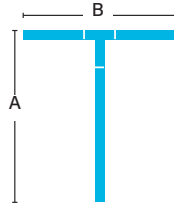
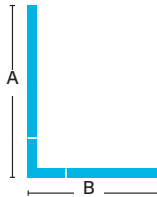
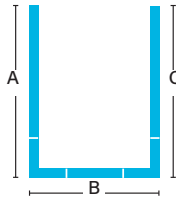
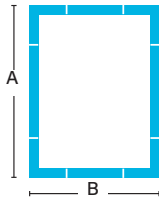
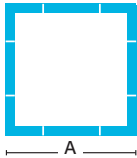
2	3	4	5	6	7	8	—
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal overall row length to the 1'
24" (609.6mm)							
	36" (914.4mm)						
		48" (1219.2mm)					
			60" (1524mm)				
				72" (1828.8mm)			
					84" (2133.6mm)		
						96" (2438.4mm)	
							Specify to the 1' >>>

Pattern

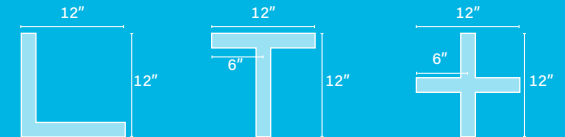


- Specify pattern shape and overall dimensions (includes corner dimensions)
- Refer to dimensions table below for available standard lengths
- All connectors are direct only
- 90 degree horizontal corners are 12"x12" (overall, outside dimension)
- Angles and shapes not shown require Mod Pattern; consult factory
- Only for HE Lens

S_	R_x_	U_x_x_	L_x_	T_x_	X_x_
Square Provide A dimension Example: S4' Minimum Length- 4'x4'	Rectangle Provide Ax B dimensions Example: R4'x4' Minimum Length- 4'x4'	U-Shape Provide Ax BxC dimensions Example: U3'x4'x3' Minimum Length- 3'x4'x3'	L-Shape Provide Ax B dimensions Example: L3'x3' Minimum Length- 3'x3'	T-Shape Provide Ax B dimensions Example: T3'x5' Minimum Length- 3'x5'	X-Shape Provide Ax B dimensions Example: X5'x5' Minimum Length- 5'x5'



Horizontal Details: Every Connection is 12" x 12" in Overall Dimension



Length or Pattern: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for **MOD** specification details, pricing, and lead-time information

MOD	Specify MOD for patterns, lengths or angles not shown above Hubs Connectors
-----	--------------------------------------------------------------------------------

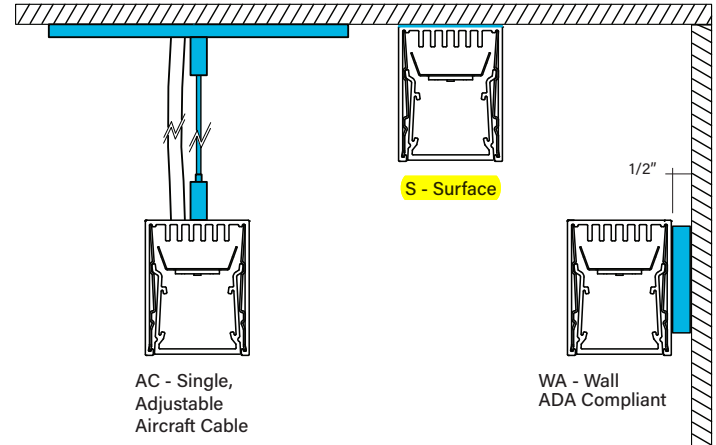


Mounting

- Specify cable length in ordering code (AC48G1)
- Standard specifiable lengths are 48", 120", 240" and 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4" (1219.2mm) and 8" (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies
- Canopies are painted to match fixture finish, power cords are white or black depending on fixture finish. See Finish section for additional details
- Approved for dry/damp location unless otherwise noted, PAC NOT rated for dry/damp

AC_G1	Aircraft Cable 1" (15/16") T-Bar
AC_G9	Aircraft Cable 9/16" T-Bar
AC_GS	Aircraft Cable Screw Slot T-Bar
AC_JB	Aircraft Cable Junction Box
AC_ST	Aircraft Cable Structure
AC5_G	Aircraft Cable 5" (127mm) Non-Power Canopy
AC5_JB	Aircraft Cable 5" (127mm) Non-Power Canopy
SQ_G	Aircraft Cable 5" (127mm) Square Canopy
SQ_JB	Aircraft Cable 5" (127mm) Square Canopy
WA	Wall Mount
S	Surface Mount

- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 20 lbs for a standard 4' fixture
- Remote box will be included for all specifications that include batteries, GTD, or a driver OTHER THAN the EL1. See Installation Instructions for more specific information about mounting



Voltage

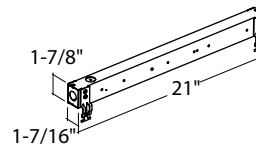
- Some EX12 configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

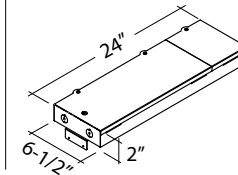
Driver

- Standard Driver Option = EL1
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some EX12D configurations will not accommodate all driver options; consult with factory
- EL1 driver is integral to the fixture housing. Remote box necessary for all drivers OTHER THAN the EL1 OR WITH BATTERY OPTION
- Osram and Lutron Drivers have a remote distance limitation of 10'
- eldoLED and Advance Drivers have an average remote distance limitation of 50'. Consult Factory for specific configurations

Slim Remote Box



Standard Remote Box



Integral Driver

EL1 ERP Power 1%, 0-10v, requires 120 or 277

Remote Driver

0-10V Drivers

FSD	Factory Select Driver (1%, 0-10v)
PL2	Signify Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v
OL2	eldoLED Optotronic, 1%, 0-10v
OL4	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v Linear
ES1	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic
ES2	eldoLED SOLOdrive 0-10v, 0.1% Linear

DALI Drivers

EE3	eldoLED ECOdrive .1%, DALI (logarithmic)
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)
OD1	eldoLED Optotronic 1%, DEXAL

Lutron Drivers

LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
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Alternate Drivers

PS1	Signify Advance Xitanium Step Dimming 50/100%
EH1	ELV 120v only, 0-10v universal

Slim Remote Box

Standard Output (STD),
High Output (HO)

Standard Output (STD),
High Output (HO)

All Configurations

All Configurations

Standard Remote Box

Very High Output (VHO), 90CRI
Options

Very High Output (VHO), 90CRI
Options

N/A

N/A

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

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EX12D_LED_SPEC_SEPTEMBER2025



How to specify Circuiting, Battery and Emergency

- 1
 - Select fixture circuiting from options below
 - Some EX12D configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit
M	Multi Circuit
E	Emergency Circuit only
N	Night Light Circuit only

- 2 + 3
 - Battery and emergency section options are available in addition to fixture circuit
 - Select battery and emergency section options below; factory shop drawing required
 - Some EX12D configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency If Required

0	No battery or specific emergency section required
---	---------------------------------------------------

Battery

- Battery will be remote mounted with driver.
- Select battery section type if required, indicate total QTY. *Example 2PL*
- 90 minute battery runtime; test button is remote to fixture and requires an additional drop
- Battery not available for lengths under 4'
- Entire direct fixture housing is on battery for lengths up to 5'
- Half of direct fixture is on battery for 6', 7' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide

0	No Battery
_FSB	Factory Select Battery (10w option, remote in box)
_FSBST	Factory Select Battery (10w, Self Testing, remote in box)
_PLL	Bodine 10w Integral (remote in box)
_ILL	Iota 10w Integral (Self Testing, remote in box)
_PRH	Bodine 20w (remote with conduit)
_IRH	Iota 20w (remote with conduit)

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

Emergency

- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options are selected

_FSG	Factory Select ALCR, Emergency Control Device, UNV
_GI	Iota ETS-DR, Emergency Transfer Switch, UNV
_GB	Bodine GTD, Generator Transfer Device, 120v or 277v
_E	Emergency circuit section
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE

Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery Ordering Code: 1-1PL
- Emergency only, 10w Integral Battery Ordering Code: E-1PLL
- Single circuit, GTD required Ordering Code: 1-1GB

Finish

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

W	White (white cord/white canopy)
S	Metallic Silver (white cord/silver canopy)
BL	Textured Black (black cord/black canopy)
BR	Bronze (white cord/bronze canopy)
GR	Graphite (white cord/graphite canopy)
CC	Custom Color (white cord/color match canopy)

Fixture Options

- Domestic content option - compliance is configuration dependent; consult factory for conformation

BA	Buy America(n) Act and/or Build America Buy America Compliant
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Controls

- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

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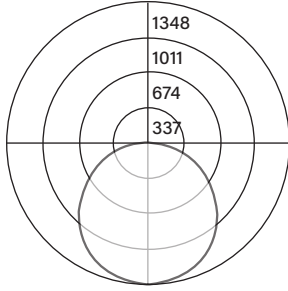
EX12D_LED_SPEC_SEPTEMBER2025



Photometrics

High Efficiency Lens

Test #	Scaled from KPL2015-57
Catalog #	EX12D-A-840VHO-4
Lumens	3819
Watts	39.7
Efficacy	96 LPW



Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1337	1337	1337	1337	1337
5	1325	1337	1328	1330	1329
10	1308	1320	1310	1312	1311
15	1279	1290	1280	1281	1280
20	1239	1249	1240	1240	1239
25	1189	1197	1189	1186	1186
30	1128	1136	1128	1123	1122
35	1059	1068	1057	1053	1052
40	983	986	978	972	970
45	899	899	892	883	881
50	806	805	796	789	769
55	704	705	696	687	685
60	599	597	590	580	581
65	491	488	477	470	470
70	375	373	365	359	357
75	258	258	250	247	245
80	153	150	146	143	145
85	66	64	61	59	58
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28469	28277	27921
55	27516	27172	26738
65	26044	25293	24939
75	22355	21618	21227
85	17058	15632	14873

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions

Applications & Certificates

Construction: 6063-T5 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

Shielding: Diffuse snap-in acrylic lens with matte finish, removable for maintenance.

Mounting: Aircraft cable, wall and **surface mount** available. The aircraft cable that mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. Luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. Lifetime Projection L70 = 254,800 hours and L90 = 80,200 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Output: Not all lumen packages available. Three lumen packages available. Standard, High (HO) and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K and 4000K. 90 CRI = R9≥50.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify PL4 or OL4 in Driver section when 347 volt (3) is selected. Some EDGE configurations will not accommodate all voltage options; consult with factory.

Driver: Standard INTEGRAL Driver Option is EL1. All other driver options will be in remote box. EL1 designed for use with 120v or 277v only. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 128°F/54°C. When ND is specified, a spec grade driver will be provided. For more driver options, see Pinnacle Resource Guide. Some configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Multi circuit (M), Emergency circuit (E) or Night Light circuit (N). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some EX configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is remote to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. Canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

Controls: Mod options available, consult with factory.

Buy America Act (BAA) and Build America, Buy America Act (BABA) Compliance: BAA and/or BABA compliance options are available to support federally funded projects requiring domestic content. Availability depends on configuration; Compliance is configuration-dependent; consult factory for confirmation.

Labels: UL and cUL 1598 listed. Standard and HO lumen packages are approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 10 lbs for a standard 4' fixture.

Warranty: EX LED offered with a 5-year limited warranty. Covers LED, driver and fixture.

LTR-P Professional Series

1.5W, 12VDC and 24VDC LED Tape Specification Sheet

GM Lighting®

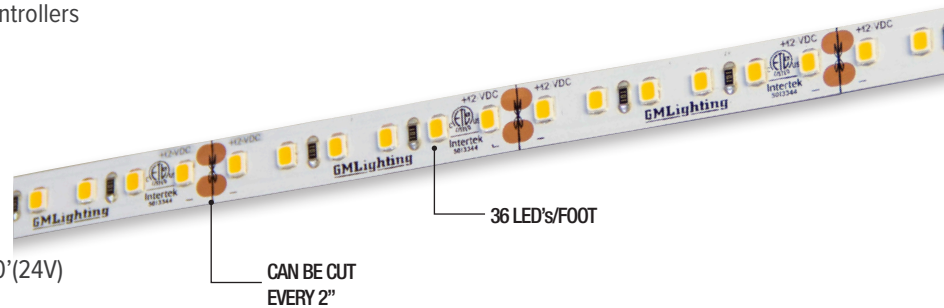
PRODUCT OVERVIEW

GM's Professional Series Flexible LED Tape combines style and technology with reliability. Designed for professional installations that demand a high level of quality, the LTR-P Series includes a wide array of key features and is available in 16'-4" (5M), 100' (30M) and 250' (76M) reels.

FEATURES

- 12VDC or **24VDC** models
- 2400K, 2700K, 3000K, 3500K, 4000K and 5000K color temps
- Dry location
- Remote control with GM's LUXcontrol™ App and controllers
- 120 LEDs per meter
- Cuttable every 2"
- Custom lengths available - consult factory
- Premium diodes
- 120° viewing angle
- **Dimmable**
- 3M adhesive back
- Maximum run on a given lead is 32'-8" (12V) and 60' (24V)
- Includes Sure-Tite connectors

Project Name	Type
Catalog #	Date



SPECIFICATIONS

ELECTRICAL

- 12V/24V
- 1.5 watts per foot

OPTICS

- **90+ CRI**

OPERATING TEMP

- -4 to 122 F

CERTIFICATION

- ETL (12V) / UL (24V)
- Title 24 compliant when used with used with specific drivers. Consult factory.
- **Class 2**
- Closet Rated: Complies with NEC code (NFPA70) 410.16, Suitable for installation within the clothes closet storage space

WARRANTY

- 5-year warranty when paired with GM power supply

ORDERING INFORMATION

	-		-		-		-		
Model	-	Series	-	Voltage		Wattage		Color Temp	Reel Length
LTR		P		12V		1.5W		24K	16
					27K				
							30K	100	
					24V		35K		
							40K	250	
							50K		

Example: LTR-P-12V-1.5W-24K-16

ACCESSORIES

Model	Description
ESTC-1	Sure-Tite tape to tape connector
ESTC-90	Sure-Tite 90° connector
ESTLK-60	Sure-Tite 60" adjustable tape to tape connector
ESTW-60	Sure-Tite 60" adjustable tape to power connector
ESTW-CO	Sure-Tite tape to power supply connector (no wire)

*Reel Length: 16 = 16'-4", 100 = 98'-6", 250 = 250'
250ft. reels available in 27K, 30K and 35K only

Your LED Tape Specification Checklist:

1. Select Tape
2. Select Connectors
3. Select Channels
4. Select Controllers or Dimmers
5. Select Power Supplies

Install Sheet



LTR-P Professional Series

1.5W, 12VDC and 24VDC LED Tape Specification Sheet



Catalog No.	Length	Lumens	CRI	Color Temp.	Max. Run
LTR-P-12V-1.5W-24K-16	16'-4" / 5M	119	90+	2400K	32'-8"
LTR-P-12V-1.5W-27K-16	16'-4" / 5M	125	90+	2700K	32'-8"
LTR-P-12V-1.5W-30K-16	16'-4" / 5M	126	90+	3000K	32'-8"
LTR-P-12V-1.5W-35K-16	16'-4" / 5M	140	90+	3500K	32'-8"
LTR-P-12V-1.5W-40K-16	16'-4" / 5M	144	90+	4000K	32'-8"
LTR-P-12V-1.5W-50K-16	16'-4" / 5M	146	90+	5000K	32'-8"
LTR-P-12V-1.5W-24K-100	98'-6" / 30M	119	90+	2400K	32'-8"
LTR-P-12V-1.5W-27K-100	98'-6" / 30M	125	90+	2700K	32'-8"
LTR-P-12V-1.5W-30K-100	98'-6" / 30M	126	90+	3000K	32'-8"
LTR-P-12V-1.5W-35K-100	98'-6" / 30M	140	90+	3500K	32'-8"
LTR-P-12V-1.5W-40K-100	98'-6" / 30M	144	90+	4000K	32'-8"
LTR-P-12V-1.5W-50K-100	98'-6" / 30M	146	90+	5000K	32'-8"
LTR-P-12V-1.5W-27K-250	250' / 76M	125	90+	2700K	32'-8"
LTR-P-12V-1.5W-30K-250	250' / 76M	126	90+	3000K	32'-8"
LTR-P-12V-1.5W-35K-250	250' / 76M	140	90+	3500K	32'-8"
LTR-P-24V-1.5W-24K-16	16'-4" / 5M	119	90+	2400K	60'
LTR-P-24V-1.5W-27K-16	16'-4" / 5M	125	90+	2700K	60'
LTR-P-24V-1.5W-30K-16	16'-4" / 5M	126	90+	3000K	60'
LTR-P-24V-1.5W-35K-16	16'-4" / 5M	140	90+	3500K	60'
LTR-P-24V-1.5W-40K-16	16'-4" / 5M	144	90+	4000K	60'
LTR-P-24V-1.5W-50K-16	16'-4" / 5M	146	90+	5000K	60'
LTR-P-24V-1.5W-24K-100	98'-6" / 30M	119	90+	2400K	60'
LTR-P-24V-1.5W-27K-100	98'-6" / 30M	125	90+	2700K	60'
LTR-P-24V-1.5W-30K-100	98'-6" / 30M	126	90+	3000K	60'
LTR-P-24V-1.5W-35K-100	98'-6" / 30M	140	90+	3500K	60'
LTR-P-24V-1.5W-40K-100	98'-6" / 30M	144	90+	4000K	60'
LTR-P-24V-1.5W-50K-100	98'-6" / 30M	146	90+	5000K	60'
LTR-P-24V-1.5W-27K-250	250' / 76M	125	90+	2700K	60'
LTR-P-24V-1.5W-30K-250	250' / 76M	126	90+	3000K	60'
LTR-P-24V-1.5W-35K-250	250' / 76M	140	90+	3500K	60'

Kelvin temperature (color) ±100K.

16'-4" and 100' reel includes 48" lead affixed to tape. 16'-4" reel includes (3) ESTW-60 Sure-Tite connectors. 100' reel includes (10) ESTW-60 Sure-Tite connectors

COMPATIBLE CONTROLLERS

Model	Description
SHWC	LUXcontrol Smart 2.4 GHz WiFi Controller, Standard 12V/24V Low Voltage, see page 8
SHWD	LUXcontrol Smart 2.4 GHz WiFi Dimmer, Standard 12V/24V Low Voltage, see page 8
SWD-40W-12VDC-DIM	SwitchLD All-in-One Dimmer and Driver, 40W, 12VDC see page 10
SWD-60W-12VDC-DIM	SwitchLD All-in-One Dimmer and Driver, 60W, 12VDC see page 10

LTR-P Professional Series

1.5W, 12VDC and 24VDC LED Tape Specification Sheet

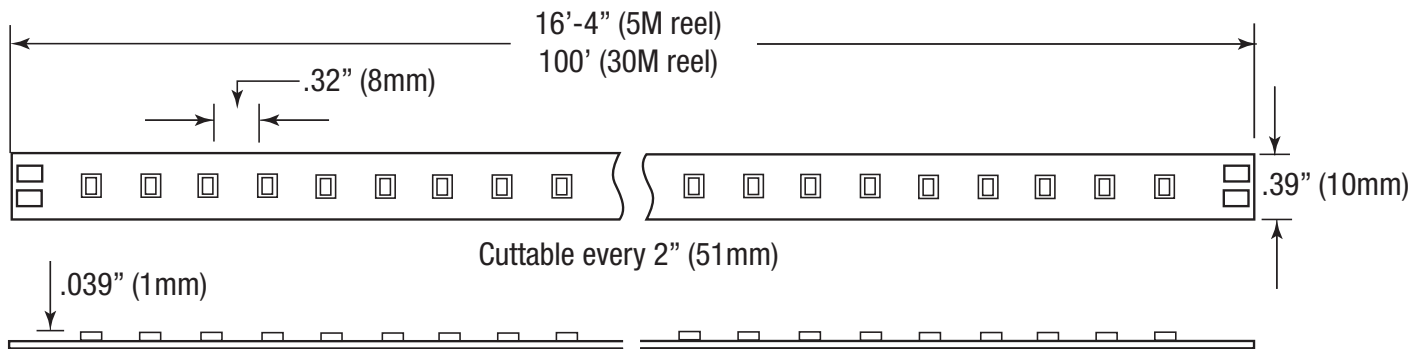
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RECOMMENDED DRIVERS

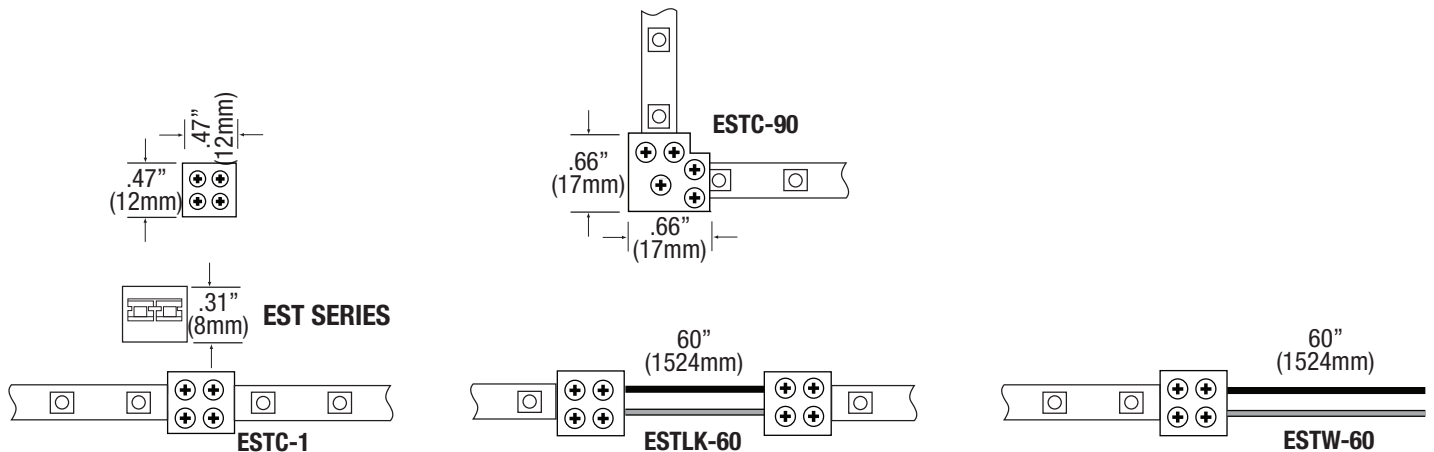
Catalog No.	Description	Watts	Specification Sheet
LD-ED-UNV	LineDrive Electronic Dimmable Power Supply, 12VDC or 24VDC	20W, 40W, 60W, 96W, 150W, 200W, 300W	View Spec Sheet
LD-E-UNV	LineDrive Electronic Non-Dimmable Power Supply, 12VDC or 24VDC	30W, 60W, 96W, 200W, 300W	View Spec Sheet
LD-MD-UNV	LineDrive Magnetic Dimmable Power Supply, 12VDC or 24VDC	30W, 60W, 96W, 150W, 200W, 300W	View Spec Sheet
LD-EDM	LineDrive Electronic Dimmable MINI Power Supply, 12VDC or 24VDC	60W	View Spec Sheet
LD-ED010	LineDrive Electronic Dimmable 0-10V Power Supply, 12VDC or 24VDC	60W, 96W	View Spec Sheet
LTP	Cord and Plug Power Supply, 12VDC or 24VDC	25W, 48W, 60W, 90W	View Spec Sheet
PSD	Electronic Dimmable Power Supply, 12VDC or 24VDC	15W, 24W, 60W, 90W	View Spec Sheet

Please see our website for updated power supply specifications and information.

DIMENSION



EST SERIES CONNECTORS



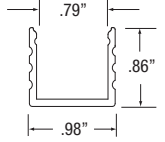
LTR-P Professional Series

1.5W, 12VDC and 24VDC LED Tape Specification Sheet

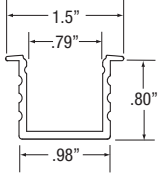
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COMPATIBLE CHANNELS - FIT CONNECTORS ON PG. 1

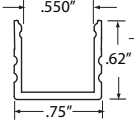
EXTRA DEEP

Catalog No.	Description	Length	Dimensions
LED-CHL-XD	Extra deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-XD-8	Extra deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	8'	
LED-CHL-XD-AMC	(2) Adjustable mounting brackets for LED-CHL-XD	N/A	
LED-CHL-XD-EC	(2) End caps for LED-CHL-XD. One solid, one with hole.	N/A	
LED-CHL-XD-MC	(2) Mounting clips and screws for LED-CHL-XD	N/A	

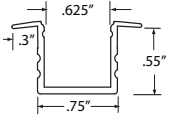
EXTRA DEEP FLANGED

LED-CHL-XD-F	Extra deep format extruded channel with flange. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-XD-F-8	Extra deep format extruded channel with flange. Includes snap-on frosted lens with mounting clips and screws.	8'	
LED-CHL-XD-F-DC	(2) Drywall mounting brackets for LED-CHL-XD-F	N/A	
LED-CHL-XD-F-EC	(2) End caps for LED-CHL-XD-F. One solid, one with hole.	N/A	

MINI DEEP

LED-CHL-XD-MD	Mini deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-XD-MD-WH	Mini deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws. White.	4'	
LED-CHL-XD-MD-B	Mini deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws. Black.	4'	
LED-CHL-XD-MD-8	Mini deep format extruded channel with flange. Includes snap-on frosted lens with mounting clips and screws.	8'	
LED-CHL-XD-MD-8-WH	Mini deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws. White.	8'	
LED-CHL-XD-MD-8-B	Mini deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws. Black.	8'	
LED-CHL-XD-MD-AMC	(2) Adjustable mounting brackets for LED-CHL-XD-MD	N/A	
LED-CHL-XD-MD-EC	(2) End caps for LED-CHL-XD-MD. One solid, one with hole.	N/A	
LED-CHL-XD-MD-MC	(2) Mounting clips for LED-CHL-XD-MD	N/A	

MINI DEEP FLANGED

LED-CHL-XD-MD-F	Mini deep format flanged extruded channel with flange. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-XD-MD-F-WH	Mini deep format flanged extruded channel with flange. Includes snap-on frosted lens with mounting clips and screws. White.	4'	
LED-CHL-XD-MD-F-B	Mini deep format flanged extruded channel with flange. Includes snap-on frosted lens with mounting clips and screws. Black.	4'	
LED-CHL-XD-MD-F-8	Mini deep format extruded flanged channel with flange. Includes snap-on frosted lens with mounting clips and screws.	8'	
LED-CHL-XD-MD-F-8-WH	Mini deep format extruded flanged channel with flange. Includes snap-on frosted lens with mounting clips and screws. White.	8'	
LED-CHL-XD-MD-F-8-B	Mini deep format extruded flanged channel with flange. Includes snap-on frosted lens with mounting clips and screws. Black.	8'	
LED-CHL-XD-MD-F-DC	(2) Drywall mounting brackets for LED-CHL-XD-MD-F	N/A	
LED-CHL-XD-MD-F-EC	(2) End caps for LED-CHL-XD-MD-F. One solid, one with hole.	N/A	

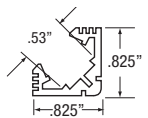
LTR-P Professional Series

1.5W, 12VDC and 24VDC LED Tape Specification Sheet

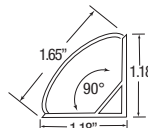
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COMPATIBLE CHANNELS- FIT CONNECTORS ON PG. 1

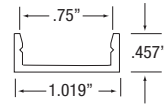
45° ANGLE MOUNT

Catalog No.	Description		Dimensions
LED-CHL-45	Extruded angled (45°) channel. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-45-EC	(2) End caps for LED-CHL-45 - one solid, one with hole	N/A	
LED-CHL-45-MC	(2) Mounting clips and screws for LED-CHL-45	N/A	

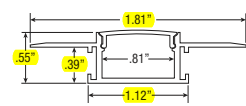
45° LARGE ANGLE MOUNT

LED-CHL-45-1200	Extruded angled (45°) channel. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-45-1200-EC	(2) End caps for LED-CHL-45 - one solid, one with hole	N/A	
LED-CHL-45-1200-MC	(2) Additional mounting clips for LED-CHL-45-1200	N/A	

WIDE

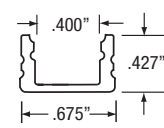
LED-CHL-W	Wide format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-W-8	Wide format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	8'	
LED-CHL-W-AMC	(2) Adjustable mounting brackets for LED-CHL-W	N/A	
LED-CHL-W-EC	(2) End caps for LED-CHL-W - one solid, one with hole.	N/A	
LED-CHL-W-MC	(2) Additional mounting clips for LED-CHL-W	N/A	

MUD IN - STANDARD

Catalog No.	Description		Dimensions
LED-CHL-MI-ST8	8ft. Standard extruded aluminum mud-in channel. Includes snap-on frosted lens.	8'	
LED-CHL-MI-ST-EC	(2) End caps for LED-CHL-MI-ST8 one solid, one with hole.	N/A	

COMPATIBLE CHANNELS - SOLDERED LEADS ONLY

STANDARD STRAIGHT

Catalog No.	Description		Dimensions
LED-CHL	Extruded channel. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-8	Extruded channel. Includes snap-on frosted lens with mounting clips and screws.	8'	
LED-CHL-AMC	(2) Adjustable mounting brackets for LED-CHL	N/A	
LED-CHL-EC	(2) End caps for LED-CHL - one solid, one with hole.	N/A	
LED-CHL-MC	(2) Additional mounting clips for LED-CHL	N/A	