INVITATION TO BID

SUBMIT BID TO: Grambling State University Purchasing Department
purchasingbids@gram.edu
To maintain the integrity of the bid process, please do not cc any other University email address when submitting your bid.

Purchasing Department Contacts: Erin Walker (318-274-3280)
walkere@gram.edu

Drawings are provided by Architect on Record is M3A Architecture PLLC.
clodge@m3aarch.com

Bid Number: 50018-260021 **DATE: MARCH 30, 2026**

TITLE: FREDRICK HOBDY ASSEMBLY CENTER LIGHTING UPGRADES

BID SCHEDULE: APRIL 23, 2026

DUE DATE/TIME *(email only)*:APRIL 23, 2026, BY 2:00 PM CST

BID OPENING *(Zoom)*:APRIL 23, 2026, AT 2:05 PM CST

MEETING ID: 861 8385 0635 **PASSWORD: 167972**

https://us06web.zoom.us/j/86183850635?pwd=qbpQz6LT8zCEEV3JxUvumydp7DXCRC.1

General Instructions to Bidders

1. Grambling State University reserves the right to award items separately, grouped or on an all or none basis and to reject any or all bids and waive any informalities.
2. Hard copies of sealed bids will no longer be accepted. All bids must be received electronically by the due date and time to be considered.
3. Sealed bids for furnishing the items and/or services specified are hereby solicited, and will be received by the issuing Grambling State University Campus/Department at the "Submit Bid To" address stated above, until the specified due date and time. Bidder is solely responsible for the timely delivery of bid. The Purchasing Office is not responsible for any delays. It is the responsibility of the Supplier to ensure the bid is received by GSU Purchasing by the indicated due date and time. Any delays that may occur in transmission of the bid is the responsibility of the supplier. A bid will be considered late if it is not received at the "Submit Bid TO" email address by the indicated due date and time.
4. The maximum email attachment size accepted is 125 MB. It is the supplier's responsibility to ensure bid submission is sized such that it is successfully transmitted and received by GSU. If the bid response is too large to be emailed as one document, the bid must be sent as separate documents. Each submittal should be labeled. (Example – Bid Submittal 1 out of 3 for IFB-50018-26XXXX - Title; Bid Submittal 2 out of 3 for IFB-50018-26XXXX - Title, etc.). If any submittal is received late, GSU will not consider the late submittal(s). Only the submittal(s) received by the due date and time will be considered. Late bids will not be accepted per
5. Bid submissions must be signed by a person authorized to bind the vendor. In accordance with Louisiana R.S. 39:1594, the person signing the bid must be:

   (1) any corporate officer listed on the most current annual report on file with the secretary of state, or the signature on the bid is that of any member of a partnership or partnership in commended listed in the most current partnership records on file with the secretary of state; or

   (2) an authorized representative of the corporation, partnership, or other legal entity and the Bidder submits or provides upon request a corporate resolution, certification as to the corporate principal, or other documents indicating authority which are acceptable to the public entity, including registration on an electronic Internet database maintained by the public entity; or

   (3) entity has filed in the appropriate records of the secretary of state in which the public entity is located, an affidavit, resolution, or other acknowledged or authentic document indicating the names of all parties authorized to submit bids for public contracts.
6. When bid is submitted by email, **the subject line must show the Solicitation/File No.** and submission must be received by bid deadline.

7. Read the entire solicitation, including all terms, conditions and specifications within this packet.

8. All bid information and prices must be typed or written in ink. Any corrections, erasures or other forms of alteration to unit prices are to be initialed by the Bidder.

9. Bid prices shall include all delivery charges paid by the vendor, F.O.B. Grambling State University Destination, unless otherwise provided in the solicitation. Any invoiced delivery charges not quoted and itemized on the Grambling State University purchase order are subject to rejection and non-payment.

10. Payment terms: Net 30 after receipt of properly executed invoice or delivery and acceptance, whichever is later.

11. By signing this solicitation, the Bidder certifies compliance with all general instructions to Bidders, terms, conditions and specifications; and further certifies that this bid is made without collusion or fraud. MANDATORY bid requirements are detailed immediately following the Standard Terms & Conditions section.

12. Quantities listed in these specifications are approximate and are not guaranteed by the University. The University reserves the right to ***increase or reduce*** quantity as needed if in the best interest of the University.

13. **Bid Bonds: Are required on ALL bids and/or Public Works Project over $25,000**, a bid bond must be submitted for each separate bid response. The bid bond shall be in an amount equal to 5% of the bid price submitted and alternates, if any. The bid security shall be in a form of a bid bond or certified check, or cashier's check.

    ***FOR THIS BID SOLICITATION: To provide the most comprehensive coverage for this renovation project, bidders are required to submit a bid bond during the bidding phase and transition to a performance bond once the contractor is selected. This approach ensures both the integrity of the bidding process and the successful completion of the project.**

14. The Contractor is required to record the Contract with the Clerk of Court in Lincoln Parish and must provide the Purchasing Department with proof of filing. Additionally, **a Performance Bond will be required at the time of the award of the contract**.

(PLEASE NOTE THAT A BID BOND MUST BE SIGNED BY THE AGENT OR ATTORNEY-IN-FACT OF THE SURETY.)

(*) The surety or insurance company furnishing the bid bond shall be currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies or by an insurance company that is either domiciled in Louisiana or owned by Louisiana residents and is licensed to write surety bonds.

STANDARD TERMS & CONDITIONS INVITATION TO BID

These standard terms and conditions shall apply to all Grambling State University solicitations, unless otherwise specifically amended and provided for in the special terms and conditions, specifications, or other solicitation documents. In the event of conflict between the General Instructions to Bidders or Standard Terms & Conditions and the Special Terms & Conditions, the Special Terms & Conditions shall govern.

Bids submitted are subject to provisions of the laws of the State of Louisiana, including but not limited to: the Louisiana Procurement Code (R.S. 39:1551-1736); Purchasing Rules and Regulations (Title 34 of the Louisiana Administrative Code); Executive Orders; and the terms, conditions, and specifications stated in this solicitation.

1. **Bid Delivery and Receipt:** To be considered, Bidders may submit bids electronically to **purchasingbids@gram.edu** When bid is submitted by email, the subject line must show the Solicitation/File No. and must be received by bid deadline.

   Bidders are advised that the U.S. Postal Service does not make deliveries to the Purchasing Office. Bids will no longer be accepted by mail or in person. Bidder is solely responsible for the timely delivery of its bid, and failure to meet the bid due date and time shall result in rejection of the bid.

2. **Bid Forms:** Bids are to be submitted on and in accordance with the Grambling State University solicitation forms provided, and must be signed by an authorized agent of the vendor. Bids submitted on other forms or in other price formats may be considered informal and may be rejected in part or in its entirety. Bids submitted in pencil and/or bids containing no original signature indicating the Bidder's intent to be bound will not be accepted.

3. **Interpretation of Solicitation/Bidder Inquiries:** If Bidder is in doubt as to the meaning of any part or requirement of this solicitation, Bidder may submit a written request for interpretation to the Grambling State University Purchasing at the email address on page 1 of this solicitation. Written inquiries must be received in the Grambling State University Purchasing Department no later than five (5) calendar days prior to the opening of bids, and shall be clearly cross-referenced to the relevant solicitation/specification in question.

   No decisions or actions shall be executed by any Bidder as a result of oral discussions with any Grambling State University employee or consultant. Any interpretation of the documents will be made by formal addendum only, issued by the Grambling State University Purchasing Department. It is the responsibility of the bidder, prior to submitting their bid, to periodically visit the State of Louisiana Purchasing Department LaPAC website, or contact he Grambling State University Purchasing Department, to identify if any addendums were issued. Grambling State University shall not be responsible for any other interpretations or assumptions made by Bidder.

4. **Bid Opening:** In-person bid openings have been suspended for the foreseeable future. Bidders may attend the public bid opening of sealed bids and proposals conducted on Zoom. No information or opinions concerning the ultimate contract award will be given at bid opening or during the evaluation process. Written bid tabulations will not be furnished. Bids may be examined within 72 hours after bid opening. Information pertaining to completed files may be secured by submitting a written request to the Grambling State University Purchasing at the email address shown in header.

5. **Special Accommodations:** Any "qualified individual with a disability" as defined by the Americans with Disabilities Act, who has submitted a bid and desires to attend the public bid opening, must notify the Grambling State University Purchasing Department in writing not later than seven days prior to the bid opening date of their need for special accommodations. If the request cannot be reasonably provided, the individual will be informed prior to the bid opening.

6. **Standards of Quality:** Any product or service bid shall conform to all applicable federal, state and local laws and regulations, and the specifications contained in the solicitation. Any manufacturer's name, trade name, brand name, or catalog number used in the specification is for the purpose of describing the standard of quality, performance, and characteristics desired; and is not intended to limit or restrict competition. Bidder must specify the brand and model number of the product offered in his bid. Bids not specifying brand and model number shall be considered as offering the exact product specified in the solicitation.

7. **New Products/Warranty/Patents:** All products bid for purchase must be new, never previously used, of the manufacturer's current model and/or packaging, and of best quality as measured by acceptable trade standards. No remanufactured, demonstrator, used or irregular products will be considered for purchase unless otherwise specified.

   The manufacturer's standard published warranty and provisions shall apply, unless more stringent warranties are otherwise required by Grambling State University and specified in the solicitation. In such cases, the Bidder and/or manufacturer shall honor the specified warranty requirements, and bid prices shall include any premium costs of such coverage.

   Bidder guarantees that the products proposed and furnished will not infringe upon any valid patent or trademark; and shall, at its own expense, defend any and all actions or suits charging such infringement, and shall save Grambling State University harmless. Descriptive Information: Bidders proposing an equivalent brand or model should submit descriptive information (such as

literature, technical data, illustrations, etc.) sufficient for Grambling State University to evaluate quality, suitability, and compliance with the specifications with the bid submission. Failure to submit descriptive information may cause bid to be rejected. Any changes made by Bidder to a manufacturer's published specifications shall be verifiable by the manufacturer. If items bid do not fully comply with specifications, Bidder should state in what respect items deviate. Bidder's failure to note exceptions in its bid will not relieve the Bidder from supplying the actual products requested.

8. **Bids/Prices/F.O.B. Point**
   - The bid price for each item is to be quoted on a "net" basis and F.O.B. Grambling State University Destination, i.e. title passing upon receipt and inclusive of all delivery charges, any item discounts, etc.
   - Bids other than F.O.B. Grambling State University Destination may be rejected.
   - Bids indicating estimated freight charges may be rejected.
   - Bids requiring deposits, payment in advance, or C.O.D. terms may be rejected.
   - Bidders who do not quote "net" item prices and who separately quote an overall "lump sum" freight cost or discount for all items shall be considered as submitting an "all-or-none" bid for evaluation and award purposes; and risk rejection if award is made on an item basis.
   - Prices shall be firm for acceptance for a minimum of 30 days, unless otherwise specified. Bids conditioned with shorter acceptance periods may be rejected.
   - Prices are to be quoted in the unit/packaging specified (e.g. each, 12/box, etc), or may be rejected.
   - In the event of extension errors, the unit price bid shall prevail.

9. **Taxes:** Vendor is responsible for including all applicable taxes in the bid price. Grambling State University is exempt from all Louisiana state and local sales and use taxes. By accepting an award, resident and non-resident firms acknowledge their responsibility for the payment of all taxes duly accessed by the State of Louisiana and its political subdivisions for which they are liable, including but not limited to: franchise taxes, privilege taxes, sales taxes, use taxes, ad valorem taxes, etc.

10. **Terms and Conditions:** This solicitation contains all terms and conditions with respect to the purchase of the goods and/or services specified herein. Submittal of any contrary terms and conditions may cause your bid to be rejected. By signing and submitting a bid, vendor agrees that contrary terms and conditions which may be included in its bid are nullified; and agrees that this contract shall be construed in accordance with this solicitation and governed by the laws of the State of Louisiana.

11. **Vendor Forms/ Grambling State University Signature Authority**: The terms and conditions of the Grambling State University solicitation, purchase order and contract shall solely govern the purchase agreement, and shall not be amended by any vendor contract, form, etc.

    The University's has assigned delegated authorities to execute/sign any vendor contracts, forms, etc., on behalf of Grambling State University as a result of any award of the solicitation. Departments are expressly prohibited from signing any vendor forms.

    Any such vendor contracts/forms bearing unauthorized signatures shall be null and void, shall have no legal force, and shall not be recognized by Grambling State University in any dispute arising therefrom. Vendors who present any such forms to department users for signature without regard to this strict Grambling State University policy may face contract cancellation, suspension, and/or debarment.

12. **Awards:** The intent to award this bid on an all-or-none basis to the lowest responsible and responsive Bidder will be stated on the bid form. For bids with several items, Grambling State University reserves the right: (1) to award items separately, grouped, or on an all-or-none basis, as deemed in its best interest; (2) to reject any or all bids and/or items; and (3) to waive any informalities.

    All solicitation specifications, terms and conditions shall be made part of any subsequent award as if fully reproduced and included therein, unless specifically amended in the formal contract.

13. **Acceptance of Bid:** Only the issuance of an official Grambling State University purchase order, contract, Notification of Award letter, or a Notification of Intent to Award letter shall constitute the University's acceptance of a bid. Grambling State University shall not be responsible in any way to a vendor for goods delivered or services rendered without an official purchase order and/or contract.

14. **Applicable Law:** All contracts shall be construed in accordance with and governed by the laws of the State of Louisiana.

15. **Awarded Products/Unauthorized Substitutions:** Only those awarded brands and numbers stated in the Grambling State University contract are approved for delivery, acceptance, and payment purposes. Any substitutions must be reviewed and approved by the Grambling State University Purchasing Department prior to awarding the contract. Unauthorized product substitutions are subject to rejection at time of delivery, post-return at vendor's expense, and non-payment. Testing/Rejected Goods: Vendor warrants that the products furnished will be in full conformity with the specification, drawing or sample, and agrees that this warranty shall survive delivery, acceptance, and use. Any defect in any product may cause its rejection.

Grambling State University reserves the right to test products for conformance to specifications both prior to and after any award. Vendor shall bear the cost of testing if product is found to be non-compliant. All rejected goods will be held at vendor's risk and expense, and subject to vendor's prompt disposition. Unless otherwise arranged, rejected goods will be returned to the vendor freight collect.

16. **Delivery**: Vendor is responsible for making timely delivery in accordance with its quoted delivery terms. Vendor shall promptly notify the Grambling State University Purchasing Department of any unforeseen delays beyond its control. In such cases, Grambling State University reserves the right to cancel the order and to make alternative arrangements to meet its needs. All deliveries **must** go to: **Property and Receiving, 407 Central Ave., Grambling, La 71245.**

17. **Default of Vendor:** Failure to deliver within the time specified in the bid/award will constitute a default and may be cause for contract cancellation. Where the University has determined the vendor to be in default, Grambling State University reserves the right to purchase any or all goods or services covered by the contract on the open market and to surcharge the vendor with costs in excess of the contract price. Until such assessed surcharges have been paid, no subsequent bids from the defaulting vendor will be considered for award.

18. **Vendor Invoices:** Invoices shall reference the Grambling State University purchase order number, vendor's packing list/delivery ticket number, shipping/delivery date, etc. Invoices are to be itemized and billed in accordance with the order, show the amount of any prompt payment discount, and submitted on the vendor's own invoice form. Invoices submitted by the vendor's supplier are not acceptable.

19. **Delinquent Payment Penalties:** Delinquent payment penalties are mandated and governed by Louisiana R.S. 39:1695. Vendor penalties to the contrary shall be null and void, shall have no legal force, and shall not be recognized by Grambling State University in any dispute arising therefrom.

20. **Assignment of Contract/Contract Proceeds:** Vendor shall not assign, sublet or transfer its contractual responsibilities, or payment proceeds thereof, to another party without the prior written consent and approval of the Grambling State University Purchasing Department. Unauthorized assignments of contract or assignments of contract proceeds shall be null and void, shall have no legal force, and shall not be recognized by Grambling State University in any dispute arising therefrom.

21. **Contract Cancellation/Termination:** Grambling State University has the right to cancel any contract for cause, in accordance with purchasing rules and regulations, including but not limited to: (1) failure to deliver within the time specified in the contract; (2) failure of the product or service to meet specifications, conform to sample quality or to be delivered in good condition; (3) misrepresentation by the vendor; (4) fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the University; (5) conflict of contract provisions with constitutional or statutory provisions of state or federal law; (6) any other breach of contract.

    Grambling State University has the right to cancel any contract for convenience at any time by giving thirty (30) days written notice to the vendor. In such cases, the vendor shall be entitled to payment for compliant deliverables in progress.

22. **Prohibited Contractual Arrangements:** Per Louisiana R.S. 42:1113.A, no public servant, or member of such a public servant's immediate family, or legal entity in which he has a controlling interest shall bid on or enter into any contract, subcontract, or other transaction that is under the supervision or jurisdiction of the agency of such public servant. See statute for complete law, exclusions, and provisions.

23. **Equal Employment Opportunity Compliance**: By submitting and signing this bid, vendor agrees to abide by the requirements of the following as applicable: Title VI and VII of the Civil Rights Act of 1964, as amended by the Equal Opportunity Act of 1972; federal Executive Order 11246; federal Rehabilitation Act of 1973, as amended; the Vietnam Era Veteran's Readjustment Assistance Act of 1974; Title IX of the Education Amendments of 1972; the Age Act of 1975; the Americans with Disabilities Act of 1990. Vendor agrees not to discriminate in its employment practices and will render services under any contract entered into as a result of this solicitation without regard to race, color, religion, sex, age, national origin, veteran status, political affiliation, handicap, disability, or other non-merit factor. Any act of discrimination committed by vendor, or failure to comply with these statutory obligations when applicable, shall be grounds for termination of any contract entered into as a result of this solicitation.

24. **Mutual Indemnification:** Each party hereto agrees to indemnify, defend, and hold the other, the State of Louisiana, any governing board, each party's officers, directors, agents and employees harmless from and against any and all losses, liabilities, and claims, including reasonable attorney's fees arising out of or resulting from the willful act, fault, omission, or negligence of the indemnifying party or of its employees, contractors, or agents in performing its obligations under this agreement, provided however, that neither party hereto shall be liable to the other for any consequential damages arising out of its willful act, fault, omission, or negligence. Certification of No Suspension or Debarment: By signing and submitting this bid, Bidder certifies that its company, any subcontractors, or principals thereof, are not suspended or debarred under federal or state laws or

regulations. A list of parties who have been suspended or debarred by federal agencies is maintained by the General Services Administration and can be viewed on the internet at https://sam.gov/content/home

25. **Substitution of Personnel:** If applicable, the University intends to include in any contract resulting from this IFB the following condition: Substitution of Personnel: If, during the term of the contract, the Contractor or subcontractor cannot provide the personnel as proposed and requests a substitution, that substitution shall meet or exceed the requirements stated herein. A detailed resume of qualifications and justification is to be submitted to the University for approval prior to any personnel substitution. It shall be acknowledged by the Contractor that every reasonable attempt shall be made to assign the personnel listed in the Contractor's bid.

26. **Insurance Requirements:** Please note insurance requirements section included in these bid specifications. If applicable to the services procured in this solicitation, the successful Bidder will be required to furnish a certificate of insurance evidencing required coverages and naming the Grambling State University as an additional insured, and grant a waiver of subrogation on all liability policies.

27. **Nonperformance:** Successful Bidder is required to perform in strict accordance with all contract specifications, terms, and conditions. Successful Bidder will be advised in writing of nonperformance issues and shall be required to promptly implement corrective actions to ensure contract compliance and to prevent recurrences. In the event the successful Bidder is issued three or more complaints of nonperformance, Grambling State University reserves the right at its sole discretion to cancel the contract with a ten (10) day written notice. Contract cancellations due to nonperformance may be cause to deem vendor non-responsible in future solicitations.

    NOTE: The University has a fall break and a Spring Break. Each Break is approximately 4 Days Each.

28. **No Smoking Campus**: The Successful Bidder shall be responsible for compliance with all University policies, security measures and vehicle regulations. Specifically, the University is a NO SMOKING campus and all prospective Bidders are cautioned that smoking will not be permitted inside or outside on ANY part of this facility at any time. Any employee who is found to be in violation of this policy will be subject to immediate dismissal.

29. **Non-Exclusivity:** This agreement is non-exclusive and shall not in any way preclude Grambling State University from entering into similar agreements and/or arrangements with other Vendors or from acquiring similar, equal, or like goods and/or services from other entities or sources.

30. **Contract Amendments:** Requests for contract changes must be made in writing by an authorized agent/signatory of the Vendor and submitted to the Grambling State University Purchasing Department for prior approval. Requests shall include detailed justification and supporting documentation for the proposed amendment.

    Contract revisions shall be effective only upon approval by Grambling State University Purchasing Department and issuance of a formal Grambling State University Contract Amendment. The Vendor shall honor purchase orders issued prior to the approval of any contract amendment as applicable.

31. **Term of Contract:** The duration of this Contract commences from the date specified herein or date of award notification and continues until University accepts final delivery of all deliverables. Total initial contract period not to exceed **Twelve (12)** months, unless renewal terms are specified in the solicitation documents. All terms of the solicitation shall be firm for the duration of Contract.

32. **Notification of Fund Appropriation: T**he continuation of this contract is contingent upon the appropriation of funds to fulfill the requirements of the contract by the Legislature. If the Legislature fails to appropriate sufficient monies to provide for the continuation of the contract or if such appropriation is reduced by the veto of the Governor or by any means provided in the Appropriations Act to prevent the total appropriations for the year from exceeding revenues for that year or for any lawful purpose and the effect of such reduction is to provide insufficient monies for the continuation of the contract, the contract shall terminate on the date of the beginning of the first fiscal year for which funds are not appropriated.

    All Bidders should be aware that our Legislative process is such that it is often impossible to give prior notice of the non-appropriation of funds. Number of Bid Response Copies: Each Bidder must submit one (1) signed original bid to the Office of Purchasing at the mailing address specified in this solicitation document. The original must CONTAIN ORIGINAL SIGNATURES of those company officials or agents duly authorized to sign on behalf of the organization. Bidders may be required to mail in the original documents upon award.

33. **Prohibition of Discriminatory Boycotts of Israel:** In accordance with LA R.S. 39:1602:1, for any contract for $100,000 or more and for any contractor with five or more employees, Contractor, or any Subcontractor, shall certify it is not engaging in a boycott of Israel, and shall, for the duration of this contract, refrain from a boycott of Israel.

The State reserves the right to terminate this contract if the Contractor, or any Subcontractor, engages in a boycott of Israel during the term of the contract.

34. **Pre-Bid Meeting: Mandatory Scheduled for April 8, 2026 at 10:00** am in the Facilities Conference Rm, located on 1 Facilities Dr. Grambling, La 71245. **La. R.S. 38:2212.H; Bidders must attend (and stay at) any mandatory pre-bid meeting.**

35. **Site Visit/Contract Information**: It is the responsibility of the prospective bidder to visit and examine the jobsite, take measurements to his/her own satisfaction and determine conditions under which work is to be done. Owner will not accept responsibility for conditions which careful examination of premises would have shown existed.
To visit jobsite and for further information, prospective bidder is to contact the Grambling State University Purchasing Departments at the contacts listed on page 1. It is preferred to have a written record of the correspondence for each site visit request. Please do not contact us by phone to schedule a visit unless you do not receive a response to your email request after 48 hours.

36. **Piggy Back Clause:** Grambling State University is asking all responding vendors to indicate their willingness to extend the terms of resulting contracts, inclusive of price, to other Louisiana state agencies and/or universities. While this clause in no way commits any state agency and/or university to purchase from the awarded vendor, nor does it guarantee any additional orders will result, it does allow state agencies and/or universities, at their discretion, to make use of the Grambling State University's competitive process (provided said process satisfies their own procurement guidelines) and purchase directly from the awarded contractor. All purchases made by other state agencies and/or universities shall be understood to be transactions between that state agency and/or university and the awarded vendor. Grambling State University shall not be responsible for any such purchases.

37. **State of Louisiana Contractor's Licenses Requirements:** If a Louisiana Contractor's License Number is Required for the items, work, or services to be performed under this solicitation, then it shall be stated in the bid advertisement that will appear in the Baton Rouge Advocate, and it will be stated in the specifications provided with these bid documents.

38. **Examination of Bid Documents:** Bidders shall carefully examine the bidding documents and the sites to obtain first- hand knowledge of the scope and the conditions of the work. The submittal of a bid means the Contractor has inspected all elevators and related equipment in the buildings specified and has found elevators to be in a proper working order and satisfactory condition. No additional compensation will be allowed by the owner for failure of such contractor or subcontractor to inform themselves as to the conditions affecting the work

39. **Errors and Omissions in Bid:** The University will not be liable for any error in the bid. Bidder will not be allowed to alter bid documents after the deadline for bid submission, except under the following condition: The University reserves the right to make corrections or clarifications due to patent errors identified in bids by the University or the Bidder. The University, at its option, has the right to request clarification or additional information from the Bidder.

40. **Waiver of Administration Informalities:** The University reserves the right, at its sole discretion, to waive administrative informalities contained in any bid.

41. **Cost of Offer Preparation:** The University is not liable for any costs incurred by prospective Bidders or Contractors prior to issuance of or entering into a Contract. Costs associated with developing the bid, and any other expenses incurred by the Bidder in responding to the ITB are entirely the responsibility of the Bidder, and shall not be reimbursed in any manner by Grambling State University.

42. **Notice of Intent to Award**: Upon review and approval of the evaluation committee and agency recommendation for award, the Grambling State University will issue a Notice of Intent to Award letter to the apparent successful Bidder.
A contract shall be completed and signed by all parties concerned on or before the date indicated. If this date is not met through no fault of the University, the University may elect to cancel the Notice of Intent to Award letter and make the award to the next most advantageous Bidder.
The Purchase Order and the Contractor's specifications will be combined to form the complete contract when the award is made. The Contractor shall be responsible for Contract filing fee with the Lincoln Parish Courthouse.
Any person aggrieved by the proposed award has the right to submit a protest in writing, in accordance with R.S. 39:1671, to the University Purchasing Director, within fourteen (14) days of the award/intent to award.

NOTICE TO VENDORS

LOUISIANA'S HUDSON (SMALL ENTREPRENEURSHIP) AND VETERAN INITIATIVE

The Louisiana Initiative for Small Entrepreneurships (the Hudson Initiative) and the Veteran Initiative (Veteran Small Entrepreneurship) are race and gender neutral goal-oriented programs which encourage State agencies to contract with and encourage contractors who receive contracts from the State to use good faith efforts to utilize certified small entrepreneurships and certified veteran or service-connected disabled veteran owned small entrepreneurships as subcontractors in the performance of the contract. The primary intent of the programs is to provide additional opportunities for Louisiana-based small entrepreneurships that are certified by the Louisiana Department of Economic Development (LED) to participate in contracting and procurement with the State.

Small entrepreneurships that are not currently certified and are interested in participating in procurement and contracting opportunities with the State are encouraged to visit https://www.opportunitylouisiana.gov/small-business/special-programs- for-small-business/hudson-initiative or https://www.opportunitylouisiana.gov/small-business/special-programs-for-small- business/veteran-initiative for qualification requirements and on-line certification. After certification, businesses are encouraged to register in the LaGov Supplier Portal.

END OF SECTION

DEFINITIONS

Agent - The University's representative in Purchasing Department who is referred to throughout these documents as singular in number.

Contractor - The person/company who contracts with Grambling State University to provide the items, services, or to perform the work as called for on these documents who is referred to as singular in number.

Owner –Grambling State University.

IMPORTANT NOTES:

1. **VENDOR BIDDING ANYTHING OTHER THAN EXACT GOODS/SERVICES SPECIFIED IN THESE SPECIFICATIONS SHOULD SUBMIT DESCRIPTIVE AND ILLUSTRATIVE LITERATURE WITH BID FOR CONSIDERATION OF AWARD. FAILURE TO DO SO MAY BE CAUSE FOR REJECTION OF BID.**
2. **ALL PRICES QUOTED ARE TO REMAIN FIRM UNTIL ALL DELIVERABLE GOODS OR SERVICES ARE RENDERED TO AND ACCEPTED BY GRAMBLING STATE UNIVERSITY.**
3. **IN THE EVENT OF EXTENSION ERRORS, THE UNIT PRICE ON THE BID FORM SHALL PREVAIL.**
4. **GRAMBLING STATE UNIVERSITY ADHERES TO NET 30 PAYMENT TERMS. ALL OTHER PAYMENT TERMS MUST BE DISCLOSED WITH BID. BE ADVISED THAT STRICTER PAYMENT TERMS MAY BE CAUSE FOR REJECTION OF BID.**
5. **QUANTITIES ARE APPROXIMATE AND ARE NOT GUARANTEED BY THE UNIVERSITY. THE UNIVERSITY RESERVES THE RIGHT TO INCREASE OR REDUCE QUANTITY AS NEEDED IF IN THE BEST INTEREST OF THE UNIVERSITY.**
6. **THE UNIVERSITY RESERVES THE RIGHT TO AWARD PROPOSAL ON AN INDIVIDUAL ITEM BASIS, A COMBINATION OF ITEMS BASIS, OR AS A TOTAL PACKAGE TO ONE VENDOR, WHICHEVER IS IN THE BEST INTEREST OF THE UNIVERSITY.**
7. **BID SUBMISSIONS MUST DISCLOSE ALL FEES INCLUDING SHIPPING, HANDLING, FREIGHT, FUEL SURCHARGES, ETC.. NO ADDITIONAL FEES WILL BE ACCEPTED AFTER AWARD.**
8. **FAILURE TO COMPLY WITH ANY MANDATORY REQUIREMENTS SHALL BE CAUSE FOR REJECTION OF BID.**
9. **TAX EXEMPTION:** ***Grambling State University is exempt from all Louisiana state and local sales and use taxes and will not pay taxes delineated on invoices for this or any other project. Grambling State University is a tax-exempt State Agency. However, that tax-exempt status does not transfer to its contractors, subcontractors, suppliers or vendors for their use in purchasing project-related materials.***

END OF SECTION

MANDATORY BID REQUIREMENTS

Failure to meet all of the listed mandatory requirements will result in rejection of bid without further consideration.

1. **CERTIFICATION STATEMENT:** The Bidder **must** sign and include the Certification Statement as set forth in solicitation document. The signature of Bidder's Authorized Representative **must be an ORIGINAL signature -** not a typed/electronic signature. Documents signed in the DocuSign™ program are the only exceptions to this policy.

2. **BID SHEET/FORM:** The Bidder must submit bid on the form herein provided. The proposal must be signed in ink, and blank space(s) should be filled in for every applicable blank in the UNIT PRICE and EXTENDED TOTAL column. Items left blank will not be awarded to that bidder. It is not necessary to bid on all items. However, if you are not bidding on a particular item, or find a blank that is not applicable to your submission, write "NO BID" or "N/A" in the provided space(s). The Bidder must state the UNIT price (written in ink or typewritten) for each item and shall show the total amount for each item based on the quantities listed.

3. **CONTRACTOR QUALIFICATIONS: REFERENCE LETTERS:** The University reserves the right to verify contractor's qualifications regarding the bid response received, and to request references for verification purposes.

4. **CERTIFICATE OF INSURANCE: If Insurance is required under this solicitation, it will be stated in the advertisement of the solicitation to appear in the Baton Rouge Advocate, and in the specification provided with these bid documents.** Bidder shall submit a certificate of insurance with bid submission or by provide the following information: Policy number, names and addresses of carriers and Agents, amounts of coverage, types of coverage, and effective dates on the bid form enclosed.

5. **ILLUSTRATIVE MATERIALS: (If Applicable)** Vendor bidding anything other than exact goods/services specified in these specifications should submit descriptive and illustrative literature with the bid for consideration of award. Failure to do so may be cause for rejection of bid.

CONTACT INFORMATION

ELECTRONIC BID SUBMISSIONS (ONLY) *Do not email questions about the bid to this email address.*

purchasingbids@gram.edu

Be sure to include the solicitation number in the subject line.

Do not *send your submission to any other University email address.*

QUESTIONS/CONCERNS ABOUT SPECIFICATIONS

walkere@gram.edu

Do not *email bid submissions this address.*

To contact Purchasing by phone: 318-274-3280

CAMPUS DELIVERIES

Please send samples or other associated documents when a hard copy is requested or deemed necessary. By Mail – Grambling State University
Purchasing Department
PO Box 4269
Grambling LA 71245

By Courier Service: Grambling State University
Purchasing Department
PO Box 4269
Grambling, LA 71245

EXHIBIT E INDEMNIFICATION AGREEMENT

The _____{Contractor/Lessee} agrees to protect, defend, indemnify, save, and hold harmless, Grambling State University, the State of Louisiana, all State Departments, Agencies, Boards and Commissions, its officers, agents, servants, employees, and volunteers, from and against any and all claims, damages, expenses, and liability arising out of injury or death to any person or the damage, loss or destruction of any property which may occur, or in any way grow out of, any act or omission of

_____{Contractor/Lessee}, its agents, servants, and employees, or any and all costs, expenses and/or attorney fees incurred by _____{Contractor/Lessee} as a result of any claims, demands, suits or causes of action, except those claims, demands, suits, or causes of action arising out of the negligence of the State of Louisiana, all State Departments, Agencies, Boards, Commissions, its officers, agents, servants, employees and volunteers.

_____{Contractor/Lessee} agrees to investigate, handle, respond to, provide defense for and defend any such claims, demands, suits, or causes of action at its sole expense and agrees to bear all other costs and expenses related thereto, even if the claims, demands, suits, or causes of action are groundless, false or fraudulent.

Accepted by _____
Company Name

_____
Signature

_____
Title

Date Accepted _____

Is Certificate of Insurance Attached? _____Yes _____No

Contract No. _____for **Grambling State University State Agency**

PURPOSE OF CONTRACT: _____

_____

_____

BID BOND

FOR

GRAMBLING STATE UNIVERSITY PROJECTS

Date:

KNOW ALL MEN BY THESE PRESENTS:

That_____ of_____, as Principal, and as Surety, are held and firmly bound unto GRAMBLING STATE UNIVERSITY (Obligee), in the full and just sum of five (5%) percent of the total amount of this proposal, including all alternates, lawful money of the United States, for payment of which sum, well and truly be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents.

Surety represents that it is listed on the current U. S. Department of the Treasury Financial Management Service list of approved bonding companies as approved for an amount equal to or greater that the amount for which it obligates itself in this instrument or that it is a Louisiana domiciled insurance company with at least an A - rating in the latest printing of the A. M. Best's Key Rating Guide. If surety qualifies by virtue of its Best's listing, the Bond amount may not exceed ten percent of policyholders' surplus as shown in the latest A. M. Best's Key Rating Guide.

Surety further represents that it is licensed to do business in the State of Louisiana and that this Bond is signed by surety's agent or attorney-in-fact. This Bid Bond is accompanied by appropriate power of attorney.

THE CONDITION OF THIS OBLIGATION IS SUCH that, whereas said Principal is herewith submitting its proposal to the Obligee on a Contract for:

_____

NOW, THEREFORE, if the said Contract be awarded to the Principal and the Principal shall, within such time as may be specified, enter into the Contract in writing and give a good and sufficient bond to secure the performance of the terms and conditions of the Contract with surety acceptable to the Obligee, then this obligation shall be void; otherwise this obligation shall become due and payable.

_____ _____

PRINCIPAL (BIDDER) SURETY

BY: _____ BY: _____

AUTHORIZED OFFICER-OWNER-PARTNER AGENT OR ATTORNEY-IN-FACT(SEAL)

INSURANCE-STATEMENT

This is to certify that we carry the Workmen's Compensation, Employer's Liability Insurance, General Liability Insurance, and Automobile Liability Insurance as outlined above with:

Liability Insurance Company: _____

Auto Liability Company Insurance: _____

Workers Compensation Insurance Company: _____

Grambling State University to be named as additional insured on Insurance Certificate provided for this contract for Liability Coverage and Auto Liability Coverage. Grambling State University shall be granted a waiver of subrogation for all Insurance Policies.

Business Name: _____

Business Address: _____ Phone No.: _____

Authorized Signature of Bidder: _____ Date: _____

Printed Name: _____ Title: _____

Email Address: _____

CERTIFICATION STATEMENT

The undersigned hereby acknowledges she/he has read and understands all requirements and specifications of the Invitation for Bid (IFB), including any attachments.

OFFICIAL CONTACT. The University requests that the Bidder designate one person to receive all documents and the method in which the documents are best delivered. Identify the Contact name and fill in the information below: (Print Clearly)

Date	_____ Official Contact Name:	
A.	E-mail Address	
B.	Telephone Number with area code:	(_____)

Bidder certifies that the above information is true and grants permission to the University to contact the above-named person or otherwise verify the information provided. By its submission of this Proposal and authorized signature below, Bidder certifies that:

1. The information contained in its response to this IFB is accurate;

2. Bidder complies with each of the mandatory requirements listed in the IFB and will meet or exceed the requirements specified therein; Bidder agrees to provide all tasks, services, and deliverables listed in Scope of Services for the total cost stated on Bid Form

3. Bidder accepts the procedures, evaluation criteria, mandatory contract terms, and all other administrative requirements set forth in this IFB.

4. Bidder confirms that its bid will be considered valid until award is made.

5. In making this bid, each Bidder represents that: They have read and understand the bid documents and the bid is made in accordance herewith, and the bid is based upon the specifications described in the bid documents without exception.

6. Bidder certifies, by signing and submitting a proposal for $25,000 or more, that their company, any subcontractors, or principals are not suspended or debarred by the General Services Administration (GSA) in accordance with the requirements in OMB Circular A-133. (A list of parties who have been suspended or debarred can be viewed via the internet at https://sam.gov/content/home.)

7. **FEDERAL CLAUSES, IF APPLICABLE**: Should Federal Funds be utilized in this procurement transaction, the following clauses apply:

ANTI-KICKBACK CLAUSE: The contractor hereby agrees to adhere to the mandate dictated by the Copeland "Anti-Kickback" Act which provides that each contractor or subgrantee shall be prohibited from inducing, by any means, any person employed in the completion of work, to give up any part of the compensation to which he is otherwise entitled.

CLEAN AIR ACT: The contractor hereby agrees to adhere to the provisions which require compliance with all applicable standards, orders or requirements issued under Section 306 of the Clean Air Act which prohibits the use under non-exempt Federal Contracts, Grants or Loans of Facilities included on the EPA list of Violating Facilities.

ENERGY POLICY AND CONSERVATION ACT: The contractor hereby recognizes the mandatory standards and policies relating to energy efficiency which are contained in the State Energy Conservation Plan issued in compliance with the Energy Policy and Conservation Act (P.L. 94-163).

CLEAN WATER ACT: The contractor hereby agrees to adhere to the provisions which require compliance with all applicable standards, orders or requirements issued under Section 508 of the Clean Water Act which prohibits the use under non-exempt Federal Contracts, Grants or Loans of Facilities included on the EPA list of Violating Facilities.

ANTI-LOBBYING AND DEBARMENT ACT: The contractor will be expected to comply with Federal Statues required in the Anti Lobbying Act and the Debarment Act.

Professional Job Title:		
Official Company Name:		
Federal Identification Number:		
Street Address:		
City:	State:	Zip:

SIGNATURE of Bidder's Authorized Representative: _____

(Signature MUST be HAND SIGNED and should be in Blue ink)

Date: _____

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: _____ **BID FOR:** _____

_____ _____

_____ _____

_____ _____

(Owner to provide name and address of owner) (*Owner to provide name of project and other identifying information)*

The undersigned bidder hereby declares and represents that she/he: a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: _____ _____ and dated: _____

(Owner to provide name of entity preparing bidding documents.)

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA:** (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging) _____ .

TOTAL BASE BID: For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" * but not alternates) the sum of:

_____ Dollars ($ _____)

ALTERNATES: For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

Alternate No. 1 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____ Dollars ($ _____)

Alternate No. 2 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____ Dollars ($ _____)

Alternate No. 3 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____ Dollars ($_____)

NAME OF BIDDER: _____

ADDRESS OF BIDDER: _____

_____

LOUISIANA CONTRACTOR'S LICENSE NUMBER: _____

NAME OF AUTHORIZED SIGNATORY OF BIDDER: _____

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: _____

SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER **: _____

DATE: _____

THE FOLLOWING ITEMS ARE TO BE INCLUDED WITH THE SUBMISSION OF THIS LOUISIANA UNIFORM PUBLIC WORK BID FORM:

* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

**** A CORPORATE RESOLUTION OR WRITTEN EVIDENCE** of the authority of the person signing the bid for the public work as prescribed by LA R.S. 38:2212(B)(5).

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA R.S. 38:2218(A) attached to and made a part of this bid.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: _____
_____
_____
_____
(Owner to provide name and address of owner)

BID FOR: _____
_____
_____
_____
(*Owner to provide name of project and other identifying information)*

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	❑ Base Bid or ❑ Alt.# ___			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*

DESCRIPTION:	❑ Base Bid or ❑ Alt.# ___			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*

DESCRIPTION:	❑ Base Bid or ❑ Alt.# ___			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*

DESCRIPTION:	❑ Base Bid or ❑ Alt.# ___			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*

DESCRIPTION:	❑ Base Bid or ❑ Alt.# ___			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*

DESCRIPTION:	❑ Base Bid or ❑ Alt.# ___			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*

DESCRIPTION:	❑ Base Bid or ❑ Alt.# ___			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*

DESCRIPTION:	❑ Base Bid or ❑ Alt.# ___			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

BID SUBMISSION CHECKLIST

__Certification statement w/original signature

__Certificate of Insurance

_____ Bid prices provided on the bid sheet(s) provided

_____Illustrative literature for items offered as equivalent

BID SUBMISSION DEADLINE:

Bid submissions for this solicitation are **due on 4/23/26 , 2026 by 2:00PMCST** – must be received electronically at purchasingbids@gram.edu. There are no exceptions to this deadline.

BID OPENING:

The public bid opening will take place on 4/23/2026 **at 2:05PMCST** on Zoom, which is available for viewing by registering at: https://us06web.zoom.us/j/86183850635?pwd=qbpQz6LT8zCEEV3JxUvumydp7DXCRC.1

ZOOM MEETING ID: 861 8385 0635 **PASSWORD: 167972**

Opening of the bid submissions begins at five (5) minutes past the hour.

For further information about the bid or to view job/delivery site, prospective bidder is to email the Purchasing Staff Members Contact Information provided on page 1

BID SHEET (continued)

PAYMENT OF TAXES

Grambling State University is exempt from all Louisiana state and local sales and use taxes and will not pay taxes delineated on invoices for items, services, or work under this solicitation or any other project. Grambling State University is a tax-exempt State Agency. However, that tax-exempt status does not transfer to its contractors, subcontractors, suppliers or vendors for their use in purchasing materials to be procured under this solicitation.

ADDENDA ACKNOWLEDGEMENT(S)

BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDA (if applicable):

ADDENDUM NO. ___ DATED: _____

ADDENDUM NO. ___ DATED: _____

ADDENDUM NO. ___ DATED: _____

FIRM NAME _____

LOUISIANA CONTRACTOR's LICENSE NUMBER:_____

SIGNED BY (signature)_____

SIGNED BY (printed) _____

By submitting your bid, you are acknowledging that you understand and agree that your company is capable of supplying the products/services in the timeline you have provided for the price(s) submitted in your bid.

Grambling State University reserves the right to reject any or all bids submitted.

GRAMBLING STATE UNIVERSITY

STANDARDIZED IFB LANGUAGE

1. **CHANGES IN THE WORK:** A Change Order is a written order to the Contractor signed by the Owner, issued after execution of the Contract, authorizing a Change in the Work or an adjustment in the Contract Sum or the Contract Time. The Contract Sum and the Contract Time may be changed only by Change Order. A Change Order signed by the Contractor indicates his agreement therewith, including the adjustment in the Contract Sum or the Contract Time. Any Change Order not signed by the Owner will be considered null and void.

   The Owner, without invalidating the Contract, may order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, the Contract Sum and the Contract Time being adjusted accordingly. All such changes in the Work shall be authorized by Change Order and shall be performed under the applicable conditions of the Contract Documents.

   When the Change Order is negotiated it shall be fully documented and itemized as to cost, including material quantities, material costs, insurance, employee benefits, other related costs, profit and overhead, and will be processed in accordance with LA R.S. 38:2222.

2. **QUALIFICATION REQUIRMENTS FOR COMPANIES SUBMITTING A BID:** All contractors submitting a bid for this contract shall meet these requirements listed below. Please include documentation in your bid submission that addresses each requirement. Submit the Bid including Unit Prices, Equipment List Breakout, executed & sworn; obtain and maintain throughout the term of the Contract, all required licenses, permits, certificates, insurances, performance and payment bonds, and agency signoffs to perform the Contract; demonstrate that it is an organization doing business for a minimum of three years prior to the Bid Opening Date; Must be an authorized dealer for all the Equipment; provide Bid Security – either a 5% percent Bid Bond.

3. **PERFORMANCE BOND LABOR AND MATERIAL PAYMENT BOND**: Performance and Payment Bonds shall be required on projects with an expected cost greater than $50,000. Performance and Payment Bonds, when required, shall be provided in an amount of 50% of the contract price. Performance and Payments Bonds shall be required by the successful bidder.

   Any surety bond required shall be written by a surety or insurance company currently on the U. S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register. For any Public Works projects, no surety or insurance company shall write a bond which is in excess of the amount indicated as approved by the U. S. Department of the Treasury Financial Management Service list. The surety bond written for a Public Works project shall be written by a surety or insurance company that is currently licensed to do business in the State of Louisiana**. PLEASE NOTE THAT A BID BOND MUST BE SIGNED BY THE AGENT OR ATTORNEY-IN-FACT OF THE SURETY.**

   The bidder shall require the attorney in fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of his power of attorney indicating the monetary limit of such power.

   Contractor shall be licensed and certified as required by the State of Louisiana Secretary of State, and all other applicable agencies. Documentation to be provided within five (5) days after receipt of request from the University.

   Contractor awarded the bid shall provide a copy of their insurance certificate indicating proof of coverage as required in the insurance section of these bid within five (5) days from receipt of request.

4. **SUBSTITUTIONS:** Each bidder represents that his bid is based upon the materials and equipment described in the bidding documents.

5. **MANUFACTURER'S NUMBERS OR TRADE NAMES:** Where a manufacturer's product is named or specified, it is understood that "or equal" shall apply, whether stated or not. Such name and number is meant to establish the standard of quality desired and does not restrict bidders to the specific brand, make, manufacturer, or specification named; and are set forth and convey to prospective bidders the general style, type, character, and quality of product desired; and that equal products will be acceptable. Grambling State University shall be sole judge as to whether or not the material is equal to that specified.

6. **EXAMINATION OF BIDDING DOCUMENTS:** Each bidder shall examine the bidding documents carefully and, no later than seven days prior to the date for receipt of bids, shall make written request to the Owner for interpretation or correction of any ambiguity, inconsistency or error therein which he may discover. Any interpretation or correction will be issued as an Addendum by the Owner. Only a written interpretation or correction by Addendum shall be binding. No bidder shall rely upon any interpretation or correction given by any other method.

7. **INQUIRY PROCESS**: Contractors shall direct all inquiries, requests for information, requests for clarification, etc. in writing to the Grambling State University Purchasing Department. Inquiries may be emailed to Erin Walker at walkere@gram.edu. **The last day to receive inquires shall be by the close of business on April 9, 2026.**

8. **CONTRACT COORDINATORS FOR THE UNIVERSITY:** The University will assign a contract coordinator for this contract. The University may assign one or more University employees to supervise and or coordinate work activities to be performed under this contract. The Contractor awarded the bid shall be provided the name(s) of University employee supervisors.

9. **AWARDS:** Awards may not be made to any person, firm, or company in default of any contract. Said person, firm, or company shall be considered non-responsible bidders and may be reinstated and awards made to them only after they have given evidence of good faith and have satisfactorily completed their obligations.

10. **PUBLICIZING AWARDS:** Written notice of award shall be sent to the successful bidder. In procurement over $50,000,each unsuccessful bidder shall be notified of the award provided that he/she submitted with his/her bid in and email requesting this information to purchasingbids@gram.edu. Notice of award will be made a part of the procurement file.

11. **RIGHT TO PROTEST:** Any person who is aggrieved in connection with the solicitation or award of a contract shall protest to the Director Purchasing. Protests with respect to a solicitation shall be submitted in writing at least (2) two days prior to the opening of bids on all matters except housing of state agencies, their personnel, operations, equipment, or activities pursuant to R.S. 39:1643 for which such protest shall be submitted at least (10) ten days prior to the opening of bids. Protests with respect to the award of a contract shall be submitted in writing within (14) fourteen days after contract award.

12. **AUTHORITY TO RESOLVE PROTESTS**: Prior to the commencement of an action in court concerning any controversy, the Director of Purchasing or his/her designee shall have the authority, to resolve the protest of any aggrieved person concerning the solicitation or award of a contract. This authority shall be exercised in accordance with regulations.

13. **REJECTION OF BIDS:** The Bidder acknowledges the right of the University to reject any or all bids and to waive any informality or irregularity in any bid received. In addition, the bidder recognizes the right of the University to reject a bid if the Bidder failed to furnish any required bid security, or to submit the data required by the bidding documents, or if the bid is in any way incomplete or irregular.

14. **NORMAL / ROUTINE SCHEDULE**: The Contractor shall provide complete services Monday thru Thursday every week, from 8:00 AM to 4:00 PM.

15. **CONTRACTOR'S LICENSE:** On any bid amounting $50,000 or more, the Contractor shall certify that she/he is licensed under Act 377 of the 1976 Louisiana Regular Legislative Session and show the contractor license number and the bid number on the front portion of the envelope; except projects financed, partially or wholly, with Federal Funds, provided that any successful Bidder before signing Contract thereon, files application for a license and pays the fee as provided in this Act and complies with all terms and provisions of this Act and with the rules and regulations of the Licensing Board. A subcontractor who wishes to bid or perform commercial work where the total cost of the project including labor and materials for the following must be licensed:
    - $50,000 or more for major and specialty classifications
    - $10,000 or more for electrical, mechanical, and plumbing
    - $1 or more for hazardous

16. **CONTRACTOR'S AFFIDAVIT:** In accordance with the Louisiana R.S. 38:2190 -2220, if the Contract is awarded to the successful Bidder, the Bidder shall, at the time of the signing of the Contract, execute the Contractor's Affidavit included in the Contract Documents.

17. **INTEREST:** There shall be no payment of interest on money owed.

18. **SECURITY REQUIREMENTS:** The University may allow the contractor to store tools, equipment, materials, supplies, etc. on site at University facilities, however, the University in no way warrants the security of any of this property. The Contractor shall be responsible for security of their property. The University may allow the Contractor to store tools, equipment, supplies, and materials on site at University facilities in designated storage areas. The University reserves the right to change these designated areas as needed and additionally the University is not required to provide these storage areas. The Contractor shall be required to keep all designated areas in a neat / orderly manner. The Contractor shall be required to provide insurance coverage for all equipment stored on site at Grambling. The contractor assumes all risk with storing tools, equipment, and materials on site at University facilities. The University shall not be responsible for theft, damage, or other harm to any property of the contractor securing any property.

19. **DAMAGES TO FACILITIES:** Contractor shall be responsible for all damages to the existing site, facilities, furniture, and equipment that are caused by this project. The contractor shall carefully document existing site conditions and existing damages prior to commencing work. The contractor shall repair all damage to its original, undamaged condition prior to completing this project

20. **CONTRACTOR EMPLOYEE REQUIREMENTS**: Contractor shall provide a sufficient amount of adequately trained staff to perform all required services in a timely manner.

21. **Supervision and Professional Conduct**-

The Supervisor shall be responsible for communicating work schedules with the University's designated contract coordinator.

The Supervisor shall be present at all times when any contractor personnel are working at Grambling. The contractor shall designate employees who may fill in for the supervisor if the supervisor is absent for any reason. The University shall be notified by telephone and email as soon as possible if the normal supervisor will be absent. This notification shall be made no later than one hour after the normal work day schedule begins. The contractor shall provide complete contact information for the supervisors and the personnel designated as "back up" supervisors. The contractor shall provide the supervisors with a mobile cellular phone and shall provide the University with the phone number for the cellular phone so that the University can reach the supervisor at any time.

The University reserves the right to require the contractor to remove any contract employee who is not dressed appropriately or who is not taking care of their personal hygiene from any or all buildings employed under the contract when the University deems it to be in the University's best interest. Contractor's employees shall maintain a neat, clean, and professional appearance at all times. Contractor's employees shall wear clothing identifying the name of their company. The contractor shall be responsible for furnishing a replacement employee who also shall meet all previously stated requirements in the event of sickness or absence of the regular worker and notify the University contract coordinator of that replacement.

Contractor's employees will be able to use McCall Dining Hall for lunch. Pricing varies during the summer. The contractor, sub-contractors, material suppliers, and all workers associated with the project shall use University facilities such as restrooms, break rooms, vending machines, etc. The contractor shall supply a portable restroom for their employees to use.

Contractor's employees shall adhere to the university's tobacco-free policy. See GSU's tobacco use policy for detailed information at https://www.gram.edu/student-life/judicial-affairs/docs/Tobacco-Free%20Policy-2013-1.pdf

22. **SUPPLIES, MATERIALS, TOOLS, AND EQUIPMENT REQUIRED FOR THIS CONTRACT:** The Contractor must provide all supplies, materials, tools, equipment, etc. necessary to complete the requirements of this contract. In no case will the University be required to provide / supply any of these items. The tools and equipment provided shall be maintained in optimum condition at all times. Specifically, the tools and equipment provided shall include but not be limited to. Equipment and tools used for this contract shall be professional equipment / tools in good working condition. Contractor shall utilize equipment and tools that provide the least amount of interruption to normal building operations (very noisy equipment shall not be used, equipment that creates objectionable fumes shall not be used, etc.). The University reserves the right to deny the Contractor use of a certain tool or piece of equipment if the University deems that tool or piece of equipment to cause an unacceptable interruption. Contractor must have an adequate supply of appropriate equipment and tools to efficiently provide service to all facilities included in this contract. Furthermore, the Contractor must have backup equipment / tools that are immediately ready for use in the event that the normally used equipment / tool fails to operate, is lost / stolen, etc. A delay in service is not

acceptable due to equipment / tool failure or loss.

23. **SUPPLIES / MATERIALS**: Contractor shall supply and provide all needed materials to complete the scope of services. The quality of these materials shall meet or exceed the quality of materials currently being used at these facilities. Contractors are encouraged to inspect each facility prior to submitting a bid to ensure that the quality of materials in their bid meets or exceeds the quality of materials I supplies currently used.

24. **SAFETY / ENVIRONMENTAL / PUBLIC HEALTH COMPLIANCE REQUIREMENTS:** The Contractor shall emphasize that safety is the most important part of this contract. The goal of the contract is to provide safe and sanitary facilities for the University community. We want to ensure that the Contractor has a proactive approach to working safely and a written safety program that their employees are trained on. Additionally, we expect the Contractor to strictly comply with all applicable rules, guidelines, laws, requirements, etc. The University shall require the Contractor to take immediate action to remedy any deficiencies / areas of non-compliance.

Occupational Safety and Health Act (OSHA) Compliance - the Contractor shall meet or exceed all OSHA requirements, rules, laws, guidelines. Environmental Protection Agency (EPA) and Louisiana Department of Environmental Quality (LDEQ) Compliance the Contractor shall meet or exceed all EPA and / or LDEQ requirements, rules, laws, guidelines, etc.

Safety Program - the Contractor shall include a copy of their written safety program with their bid submission that covers all policies and procedures that pertain to compliance with safety / OSHA requirements.

Material Safety Data Sheets (MSDS) -the Contractor must keep a printed copy of a material safety data sheet for each chemical used to complete the requirements of this contract. The MSDS must be readily available and easily accessible to all employees.

25. **PAYMENTS AND COMPLETION and SUBSTANTIAL COMPLETION:** The Owner will issue a NOTICE OF ACCEPTANCE for the Contractor to record with the Clerk of Court in Lincoln Parish.

26. **FINAL COMPLETION AND FINAL PAYMENT:** The Contract is to provide that the contractor is not to be paid more than ninety percent (90%) of the amount of the contract upon completion of the work. The Contractor shall record the NOTICE OF ACCEPTANCE with the Lincoln Parish Clerk of Court and shall furnish a CLEAR LIEN CERTIFICATE from the Clerk of Court within forty-five days after recordation of NOTICE OF ACCEPTANCE. At that time, the remaining ten percent (10%) will be paid.

29. **LIQUIDATED DAMAGES:** The Owner will suffer financial loss if the Project is not substantially complete on the date set forth in the CONTRACT DOCUMENTS. The Contractor (and/or Surety) shall be liable for and shall pay to the Owner Liquidated Damages for each calendar day of delay until the work is Substantially Complete.

The Completion Time stated in Consecutive Calendar Days and the Liquidated Damages stated in ($250) two-hundred and fifty Dollars per Day are listed in the PROPOSAL FORM.

30. **PRICING REQUIREMENTS:** Pricing for all items shall be a complete, turnkey price and shall include but is not limited to: labor, equipment, tools, materials, supplies, insurance, permitting, taxes, and shipping.

31. **TAXES**: Applicable taxes are to be included in lump sum bid.

32. **INVOICING / PAYMENT TERMS:** The contractor will be required to submit an itemized monthly invoice, to Accounts Payable email address acctpayable@gram.edu. Monthly payments will be made by the Agency within approximately thirty (30) days after receipt of a properly executed invoice, and approval by the Agency.

All invoices must list the following information: the contract purchase order number, dates of services performed, building name and elevator number if applicable, a brief explanation of repair including any parts replaced. Invoices submitted without the requested documentation will not be approved for payment until the required information is provided.

STANDARDIZED INSURANCE REQUIREMENTS FOR STATE AGENCY CONTRACTS

EXHIBIT A
INSURANCE AND INDEMNIFICATION
REQUIREMENTS FOR CONTRACTORS

The Contractor shall purchase 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 Contractor, its agents, representatives, employees or subcontractors.

A. **MINIMUM SCOPE AND LIMITS OF INSURANCE**

1. **WORKER COMPENSATION:** Workers Compensation insurance shall be in compliance with the Workers Compensation law of the State of the Contractor's headquarters. Employers Liability is included with a minimum limit of $500,000 per accident/per disease/per employee. If work is to be performed over water and involves maritime exposure, applicable LHWCA, Jones Act, or other maritime law coverage shall be included and the Employers Liability limit increased to a minimum of $1,000,000. A.M. Best's insurance company rating requirement may be waived for workers compensation coverage only.

2. **COMMERICAL GENERAL LIABILITY**: Commercial General Liability insurance, including Personal and Advertising Injury Liability, shall have a minimum limit per occurrence of $1,000,000 and a minimum general aggregate of $2,000,000. The Insurance Services Office (ISO) Commercial General Liability occurrence coverage form CG 00 01 (current form approved for use in Louisiana), or equivalent, is to be used in the policy. Claims-made form is unacceptable.

3. **AUTOMOBILE LIABILITY**: Automobile Liability Insurance shall have a minimum combined single limit per occurrence of $1,000,000. ISO form number CA 00 01 (current form approved for use in Louisiana), or equivalent, is to be used in the policy. This insurance shall include third-party bodily injury and property damage liability for owned, hired and non-owned automobiles.

B. **DEDUCTIBLES AND SELF-INSURED RETENTIONS**: Any deductibles or self-insured retentions must be declared to and accepted by the Agency. The Contractor shall be responsible for all deductibles and self-insured retentions.

C. **OTHER INSURANCE PROVISIONS:** The policies are to contain, or be endorsed to contain, the following provisions:

1. **General Liability and Automobile Liability Coverages**

   a. The Agency, its officers, agents, employees and volunteers shall be named as an additional insured as regards negligence by the contractor. ISO Form CG 20 10 (current form approved for use in Louisiana), or equivalent, is to be used when applicable. The coverage shall contain no special limitations on the scope of protection afforded to the Agency.

   b. The Contractor's insurance shall be primary as respects the Agency, its officers, agents, employees and volunteers. Any insurance or self-insurance maintained by the Agency shall be excess and non-contributory of the Contractor's insurance.

   c. Any failure of the Contractor to comply with reporting provisions of the policy shall not affect coverage provided to the Agency, its officers, agents, employees and volunteers.

   d. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the policy limits.

   e. All property losses caused by the actions of the Contractor shall be adjusted with and made payable to the Agency.

   f. Neither the acceptance of the completed work nor payment shall release the Contractor from the insurance requirements and indemnification agreement obligations.

   g. Additional insurance may be required on an individual basis for hazardous activities and specific service agreements. If such additional insurance is required for a specific contract, that requirement should be added to the list of required coverages found in the appropriate Exhibit.

   h. If the Contractor does not continue to comply with all of the insurance requirements at any time during the contract or at contract renewal, the Agency has the following options:
      - Payments to the Contractor may be withheld until the requirements have been met;

- The Agency may pay any renewal policy premiums and withhold such payments from any monies due the Contractor;
- The Agency may suspend, discontinue or terminate the contract.

2. **Workers Compensation and Employers Liability Coverage**

   The insurer shall agree to waive all rights of subrogation against the Agency, its officers, agents, employees and volunteers for losses arising from work performed by the Contractor for the Agency.

3. **All Coverages**
   a. Coverage shall not be canceled, suspended, or voided by either party (the Contractor or the insurer) or reduced in coverage or in limits except after 30 days written notice has been given to the Agency. Ten-day written notice of cancellation is acceptable for non-payment of premium. Notifications shall comply with the standard cancellation provisions in the Contractor's policy.
   b. Neither the acceptance of the completed work nor the payment thereof shall release the Contractor from the obligations of the insurance requirements or indemnification agreement.
   c. The insurance companies issuing the policies shall have no recourse against the Agency for payment of premiums or for assessments under any form of the policies. Any failure of the Contractor to comply with reporting provisions of the policy shall not affect coverage provided to the Agency, its officers, agents, employees and volunteers.

D. **ACCEPTABILITY OF INSURERS:** All required insurance shall be provided by a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located. Insurance shall be placed with insurers with a A.M. Best's rating of A-:VI or higher. This rating requirement may be waived for workers compensation coverage only.

If at any time an insurer issuing any such policy does not meet the minimum A.M. Best rating, the Contractor shall obtain a policy with an insurer that meets the A.M. Best rating and shall submit another Certificate of Insurance as required in the contract.

E. **VERIFICATION OF COVERAGE:** Contractor shall furnish the Agency with Certificates of insurance reflecting proof of required coverage. The Certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The Certificates are to be received and approved by the Agency before work commences and upon any contract renewal thereafter.

In addition to the Certificates, Contractor shall submit the declarations page and the cancellation provision endorsement for each insurance policy. The Agency reserves the right to request complete certified copies of all required insurance policies at any time.

Upon failure of the Contractor to furnish, deliver and maintain such insurance as above provided, this contract, at the election of the Agency, may be suspended, discontinued or terminated. Failure of the Contractor to purchase and/or maintain any required insurance shall not relieve the Contractor from any liability or indemnification under the contract.

F. **SUBCONTRACTORS:** Contractor shall include all subcontractors as insureds under its policies OR shall be responsible for verifying and maintaining the Certificates provided by each subcontractor. Subcontractors shall be subject to all of the requirements stated herein. The Agency reserves the right to request copies of subcontractor's Certificates at any time.

G. **WORKERS COMPENSATION INDEMNITY**: In the event Contractor is not required to provide or elects not to provide workers compensation coverage, the parties hereby agree that Contractor, its owners, agents and employees will have no cause of action against, and will not assert a claim against, the State of Louisiana, its departments, agencies, agents and employees as an employer, whether pursuant to the Louisiana Workers Compensation Act or otherwise, under any circumstance. The parties also hereby agree that the State of Louisiana, its departments, agencies, agents and employees shall in no circumstance be, or considered as, the employer or statutory employer of Contractor, its owners, agents and employees. The parties further agree that Contractor is a wholly independent contractor and is exclusively responsible for its employees, owners, and agents. Contractor hereby agrees to protect, defend, indemnify and hold the State of Louisiana, its departments, agencies, agents and employees harmless from any such assertion or claim that may arise from the performance of this contract.

H. **INDEMNIFICATION/HOLD HARMLESS AGREEMENT**: Contractor agrees to protect, defend, indemnify, save, and hold harmless, Grambling State University, the State of Louisiana, all State Departments, Agencies, Boards and Commissions, its officers, agents, servants, employees, and volunteers, from and against any and all claims, damages, expenses, and liability arising out of injury or death to any person or the damage, loss or destruction of any property which may occur, or in any way grow out of, any act or omission of Contractor, its agents, servants, and employees, or any and all costs, expenses and/or attorney fees incurred by Contractor as a result of any claims, demands, suits or causes of action, except those claims,

demands, suits, or causes of action arising out of the negligence of Grambling State University, the State of Louisiana, all State Departments, Agencies, Boards, Commissions, its officers, agents, servants, employees and volunteers.

Contractor agrees to investigate, handle, respond to, provide defense for and defend any such claims, demands, suits, or causes of action at its sole expense and agrees to bear all other costs and expenses related thereto, even if the claims, demands, suits, or causes of action are groundless, false or fraudulent.

Project Manual

Architects Project Number: 25-030.2

PROJECT

The Updated Lighting Project For:

GRAMBLING STATE UNIVERSITY

FREDRICK C. HOBDY ASSEMBLY CENTER – MAIN GYMNASIUM

Grambling, Louisiana

ARCHITECT

M3A Architecture, PLLC/
William L. McElroy AIA, NCARB
4880 McWillie Circle
Jackson, MS 39206
601-981-1227 voice
601-983-4444 facsimile

MECHANICAL/ELECTRICAL ENGINEER

Thompson Luke & Associates, LLC
10705 Rieger Rd.
Baton Rouge, LA 70809
225-293-9474 voice

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END OF SECTION 00010

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SECTION 00200 - INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Identification of project instructions to Bidders

B. Provisions for Document Modifications

C. Definition of Contractor's Responsibility

1.02 IDENTIFICATION

A. The Project "Instruction to Bidders" shall be the standard document of the American Institute of Architects known as "AIA Document A701, Instructions to Bidders, 2018 Edition."

B. A copy of the Project Instructions to Bidders is on file at the Architect's office and copies are available for Contractor's examination.

C. The AIA Document A701 is hereby incorporated by reference as though fully written herein.

1.03 DOCUMENT INCLUDES

A. Invitation
1. Bid Submission
2. Work Identified in the Contract Documents
3. Contract Time

B. Bid Documents and Contract Documents
1. Definitions
2. Contract Documents Identification
3. Availability
4. Examination
5. Inquiries/Addenda
6. Product/Assembly/System Substitutions

C. Site Assessment
1. Site Examination
2. Pre-bid Conference

D. Qualifications
1. Qualifications
2. Subcontractors/Suppliers/Others

E. Bid Submission
1. Bid Ineligibility
2. Submission Procedure

F. Bid Enclosures/Requirements
1. Security Deposit
2. Consent of Surety
3. Performance Assurance
4. Insurance
5. Bid Form Requirements
6. Fees for Changes in the Work
7. Bid Form Signature
8. Additional Bid Information

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G. Offer Acceptance/Rejection
1. Duration of Offer
2. Acceptance of Offer

1.04 RELATED DOCUMENTS

A. Document 00100 - Advertisement for Bids.

B. Document 00210 – Supplementary Instructions to Bidders

C. Document 00220 – Special Provisions and Regulations

D. Document 00300 - Information Available To Bidders.

E. Document 00410 - Proposal Form.

F. Document 00430 - Supplements to Bid Form.

G. Document 00500 – Agreement Forms

H. Document 00600 – Bond Forms

I. Document 00700 – General Conditions

J. Document 00800 - Supplementary Conditions

K. Document 00900 – Insurance Requirements

1.05 INVITATION

A. BID SUBMISSION

1. Submit required Supplements to Bid Forms with completed package to purchasingbids@gram.edu.
2. Offers will be opened on **2:05 P.M.,** CST on **April 21 2026**
3. Amendments to the submitted offer will be permitted if received in writing prior to bid closing and if endorsed by the same party or parties who signed and sealed the offer.

B. WORK IDENTIFIED IN THE CONTRACT DOCUMENTS
1. Work of this proposed Contract comprises building construction, including general construction Work.

C. Location: **1234 Grambling Road, Grambling, Louisiana 71245.**

C. CONTRACT TIME
1. Base Bid contract Time - Perform the Work in **Sixty (60)** calendar days.

1.06 BID DOCUMENTS AND CONTRACT DOCUMENTS

A. DEFINITIONS
1. Bid Documents: Contract Documents supplemented with Invitation to Bid, Instructions to Bidders, Information Available to Bidders, Bid Form Supplements To Bid Forms and Appendices identified.
2. Contract Documents: Defined in General Conditions including issued Addenda.
3. Bid, Offer, or Bidding: Act of submitting an offer under seal.
4. Bid Amount: Monetary sum identified by the Bidder in the Bid Form.

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B. CONTRACT DOCUMENTS IDENTIFICATION
1. The Contract Documents are identified as Bid Number 50018-260020, dated March 30, 2026 as prepared by Grambling State Purchasing Office in conjugation with Mc3lroy Architecture, PLLC/William L. McElroy AIA, NCARB. who is located at 4880 McWillie Circle, Jackson, Mississippi 39206, and with contents as identified in the Table of Contents.

C. AVAILABILITY

1. Bid Documents are made available only for the purpose of obtaining offers for this project. Their use does not grant a license for other purposes.

D. EXAMINATION
1. Upon receipt of Bid Documents verify that documents are complete. Notify GSU Purchasing and Mc3lroy Architecture, PLLC. should the documents be incomplete.
2. Immediately notify Mc3lroy Architecture, PLLC. upon finding discrepancies or omissions in the Bid Documents.

E. INQUIRIES/ADDENDA
1. Direct questions to Ikeh Gilson, telephone 601-981-1227, fax number 601-983-4444.
2. Addenda may be issued during the bidding period. All Addenda become part of the Contract Documents. Include resultant costs in the Bid Amount.
3. Verbal answers are not binding on any party.
4. Clarifications requested by bidders must be in writing not less than SEVEN (7) days before date set for receipt of bids. All request for clarifications received after the deadline are subject to a lack of response.
5. All replies will be in the form of an Addendum, a copy of which will be forwarded to known recipients and planrooms.

F. PRODUCT/ASSEMBLY/SYSTEM SUBSTITUTIONS
1. Where the Bid Documents stipulate a particular product, substitutions will not be considered prior to bid opening. All bids must be based off the specified product or a listed approved equal.
2. See Section 01600 - Product Requirements for additional requirements.

1.07 SITE ASSESSMENT

A. SITE EXAMINATION
1. All bidders are encouraged to examine the project site before submitting a

bid.

2. The bidder is required to contact the Architect in order to arrange a date and time to visit the project site.
3. The bidder shall not contact Grambling State University in order to arrange a date and time to visit the project site.

B. PREBID CONFERENCE

1. A bidder's conference has been scheduled for **April 8 2026 at 10:00 am local prevailing time**
2. All bidders are **REQUIRED** to attend.
3. Attendance is **MANDATORY** to be eligible to submit a formal "**BID**".
4. Representatives of GSU and MC3LOY will be in attendance.
5. Summarized minutes of this meeting will be circulated to attendees. These minutes will not form part of the Contract Documents.
6. Information relevant to the Bid Documents will be recorded in an Addendum, issued to Bid Document recipients.

1.08 QUALIFICATIONS

A. EVIDENCE OF QUALIFICATIONS

1. To demonstrate qualification for performing the Work of this Contract, bidders may be requested to submit written evidence of financial position, license to perform work in the State and Louisiana. .

B. SUBCONTRACTORS/SUPPLIERS/OTHERS

1. Grambling State University reserves the right to reject a proposed subcontractor for reasonable cause.

1.09 BID SUBMISSION

A. SUBMISSION PROCEDURE – HARD COPY

1. Bidders have to submit their bids electronically through purchasingbids@gram.edu before 2:00pm April 21, 2026
2. Improperly completed information, irregularities in bid bond, shall be cause not to open the Bid Form envelope and declare the bid invalid or informal.
3. An abstract summary of submitted bids will be made available to all bidders following bid opening.

B. BID INELIGIBILITY

1. Bids that are unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations, or irregularities of any kind, will at the discretion of the Grambling State University be declared unacceptable.
2. Bid Forms, Appendices, and enclosures that are improperly prepared will, at the discretion of Grambling State University, be declared unacceptable.
3. Failure to provide security deposit, bonding or insurance requirements will, at the discretion of Grambling State University.

1.10 BID ENCLOSURES/REQUIREMENTS

A. SECURITY DEPOSIT
1. Bids shall be accompanied by a security deposit as follows:
a. Bid Bond in the amount of five percent (5%) of base bid price on AIA A310 Bid Bond Form.
2. Endorse the Bid Bond in the name of the Grambling State University as oblige, signed and sealed by the principal and surety.
3. The security deposit will be returned after delivery to Grambling State University of the required Performance and Payment Bond(s) by the accepted bidder.
4. Include the cost of bid security in the Bid Amount.
5. If no contract is awarded, all security deposits will be returned.

B. FEES FOR CHANGES IN THE WORK
1. The overhead and profit fees on own Work and Work by subcontractors, applicable for Changes in the Work, whether additions to or deductions from the Work on which the Bid Amount is based shall be as follows:
a. Fifteen Percent (15%) on own Work
b. Ten Percent (10%) on Subcontract Work

G. BID FORM SIGNATURE
1. The Bid Form shall be signed by the bidder, as follows:
a. Sole Proprietorship: Signature of sole proprietor in the presence of a witness who will also sign. Insert the words "Sole Proprietor" under the signature. Affix seal.
b. Partnership: Signature of all partners in the presence of a witness who will also sign. Insert the word "Partner" under each signature. Affix seal to each signature.
c. Corporation: Signature of a duly authorized signing officer(s) in their normal signatures. Insert the officer's capacity in which the signing officer acts, under each signature. Affix the corporate seal. If the bid is signed by officials other than the president and secretary of the company, or the president/secretary/treasurer of the company, a copy of the by-law resolution of their board of directors authorizing them to do so, must also be submitted with the Bid Form in the bid envelope.
d. Joint Venture: Each party of the joint venture shall execute the Bid Form under their respective seals in a manner appropriate to such party as described above, similar to the requirements of a Partnership.

1.11 OFFER ACCEPTANCE/REJECTION

A. DURATION OF OFFER
1. Bids shall remain open to acceptance and shall be irrevocable for a period of forty-five (45) days after the bid closing date.

B. ACCEPTANCE OF OFFER
1. Grambling State University reserves the right to accept or reject any or all offers.
2. After acceptance by Grambling State University, MC3LROY Architecture, PLLC. on behalf of the University, will issue to the successful bidder a written Bid Acceptance.

END OF SECTION 00200

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SECTION 00210 – SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Identification of Project Supplementary Instructions to Bidders.

B. General Provisions.

C. Supplements.

1.02 IDENTIFICATION

A. The "Supplements" included hereinafter modify the "Instructions to Bidders" (AIA Document A701, Instructions to Bidders, 1997 Edition) identified in Section 00200.

1.03 GENERAL REVISIONS

A. Where a portion of the Instructions to Bidders is modified by these Supplementary Instructions to Bidders, the unaltered portions shall remain in effect.

1.04 SUPPLEMENTS

A. To Article 1 - Definitions:

1. Add the following subparagraphs:

1.10 The Owner is Grambling State University & the Black & Gold Foundation.

B. To Article 3 - Bidding Documents:

Amend to paragraph 3.1.1. to read
Contract Documents may be reviewed at the office of the Architect. Prospective bidders may obtain copies of all materials required for bidding purposes. There is a three-hundred-and-fifty-dollar refundable deposit required to obtain contract documents.

1. Delete paragraph 3.1.2.
2. Add to paragraph 3.2, subparagraph 3.2.4:

3.2.4 Should there be any discrepancy between the specifications and the drawings or between the larger and smaller scale drawings or between the figures and the scale, the specifications shall take precedence in all cases, the larger scale drawings shall be followed in preference to the smaller scale, the descriptive writing in preference to the material symbols and the figures rather than the scale. Any unusual conditions found to exist at the site or discrepancies found on the drawings shall be called to the attention of the Architect prior to submitting proposal and request interpretation. The Architect's Project Manager will send written instruction or interpretations to

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all plan holders-neither the Owner nor the Project Manager will be responsible for oral instructions. If the Contractor fails to make such request no excuse thereafter shall be entertained for failure to carry out work in satisfactory manner and no additional compensation shall be allowed for such discrepancies or unusual conditions.

3. Delete paragraph 3.3.2, 3.3.3 and 3.3.4

4. Substitute 3.3.2 to read:

"No substitution will be considered prior to receipt of bids. Substitutions will be considered as per Section 01600 as incorporated in the specifications."

5. Substitute 3.3.3 to read:

"Meaning of "or equal", "as directed", "as approved", etc. or words of like effect signify approval by the Project Manager and/or Owner. The Project Manager's approval will not relieve the contractor of responsibility for materials, equipment or work later found to be defective not conforming to the contract documents or otherwise unsuitable for the work."

D. To Article 7 - Performance Bond and Payment Bond:

1. Add to paragraphs 7.1.1, 7.1.2, 7.1.3, 7.2.1, and 7.2.2, the following:

Having satisfied all conditions of award as set forth elsewhere in these documents, the successful Bidder shall, **within ten (10) WORKING days of Contract award**, furnish a surety bond in a penal sum not less than the amount of the Contract as awarded as security for the faithful performance of the Contract **(Performance Bond)**. In addition, the successful bidder shall within the period specified above furnish a surety bond in a penal sum not less than the amount of the contract as awarded, as security for the payment of all persons, firms, or corporations to whom Contractor may become legally indebted for labor, materials, tools, equipment, or services of any nature including utility and transportation services, employed or used by him in performing the work **(Payment Bond)**. Such bonds shall be in the same form as those included in the Contract Documents and shall have the same date as or a date subsequent to that of the Agreement. The current power of attorney for the person who signs for any surety by a guaranty or surety company listed in the latest issue of the U. S. Treasury Circular 570 and the penal sum shall be within the maximum specified for such company in said Circular 570. Said power of attorney shall be provided on a stipulated AIA form or approved similar forms.

E. To Section 00200 - Instructions to Bidders, add the following Article 9 - Miscellaneous Provisions:

ARTICLE 9

MISCELLANEOUS PROVISIONS

9.1 STATEMENT OF BIDDER'S QUALIFICATIONS

9.1.1. Each Bidder shall, upon request of the Owner, submit on the form specified for that purpose, his experience record in constructing the type of improvements embraced in the project, his organization and equipment available for the work contemplated and when specifically requested by the Owner, a detailed financial statement. The Owner shall have the right to take steps as it deems necessary to determine the ability of the Bidder to perform his obligations under the Contract and the Bidder shall furnish the Owner all such information and data for this purpose as it may request. The right is reserved to reject any Bid where an investigation of the available evidence of information does not satisfy the Owner that the Bidder is qualified to carry out properly the terms of the Contract.

9.2 OTHER CONTRACTS

9.2.1 The Owner may award or may have awarded other contracts for additional work and the Contractor shall operate fully with such other Contractors by scheduling his own work with that to be performed under other Contracts as may be directed by the Owner. The Contractor shall not commit or permit any act which will interfere with the performance of work by any other Contractor as scheduled.

9.3 REVIEW BY OWNER

9.3.1 The Owner and its authorized representatives and agents shall at all times have access to and be permitted to observe and review all work, materials, equipment, payrolls, personnel records, employment conditions, material invoices, and other relevant data and records pertaining to this Contract provided, however, that all instructions and approval with respect to the Work will be given the Contractor only by the Owner through its authorized representatives or agents.

9.4 RETAINAGE

9.4.1 Bidders are instructed to review the GENERAL CONDITIONS - ARTICLE 9, regarding Payments and Completion. The Owner shall consistently retain five percent (5%) of the portion of the Contract Sum properly allocable to labor, materials, and equipment incorporated in the work and five percent (5%) of the portion of the Contract Sum properly allocable to materials and equipment suitably stored at the site or if approved by the Owner at some other location agreed upon in writing.

9.5 EQUAL EMPLOYMENT OPPORTUNITY

9.5.1 Attention to Bidders is particularly called to the requirement for ensuring that employees and applicants for employment are not discriminated against because of their race, color, religion, sex, or national origin. (Title IV of the Civil Rights Act of 1964, 42USC2000d and Title 43, Part 17 CFR). The Bidder's attention is also called to the Federal Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246 entitled, "Equal Employment Opportunity" as amended by Executive Order 11375 and supplemented in Department of Labor Regulations 41 CFR Part 60).

9.6 CONTRACT TIME

Contract Work Hours and, Safety Standards Act, as Amended

U.S. Department of Labor
Wage and Hour Division

WH1432
(Revised April 2009)

The Davis-Bacon Act, as Amended

U.S. Department of Labor
Wage and Hour Division

WH Publication 1246
(Revised April 2009)

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PUBLIC LAW 107–217—AUG. 21, 2002 [as amended[1]]

An Act

To revise, codify, and enact without substantive change certain general and permanent laws, related to public buildings, property, and works, as title 40, United States Code, ‘‘Public Buildings, Property, and Works’’.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. TITLE 40, UNITED STATES CODE.

Certain general and permanent laws of the United States, related to public buildings, property, and works, are revised, codified,and enacted as title 40, United States Code, ‘‘Public Buildings, Property, and Works’’, as follows:

TITLE 40—PUBLIC BUILDINGS, PROPERTY, AND WORKS

* * * *

SUBTITLE II—PUBLIC BUILDINGS AND WORKS

* * * *

PART A—GENERAL

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CHAPTER 31 – GENERAL

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SUBCHAPTER IV - WAGE RATE REQUIREMENTS

Sec. 3141. Definition

In this subchapter, the following definitions apply:

(1) Federal government.— The term “Federal Government” has the same meaning that the term “United States” had in the Act of March 3, 1931 (ch. 411, 46 Stat. 1494) (known as the Davis-Bacon Act).[2]

(2) Wages, scale of wages, wage rates, minimum wages, and prevailing wages.— The terms “wages”, “scale of wages”, “wage rates”, “minimum wages”, and “prevailing wages” include—

(A) the basic hourly rate of pay; and

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[1] Pub. L. 109-284 Sec. 6(11), (12), and (13) made three minor technical corrections in Secs 3141(1), and 3142(d) and (e). (Sept. 27, 2006, 120 Stat.1213.)

[2] The Davis-Bacon Act, referred to in par. (1), is act of Mar. 3, 1931, ch. 411, 46 Stat. 1494, as amended, which was classified generally to sections 276a to 276a-5 of former Title 40, Public Buildings, Property, and Works, and was repealed and reenacted as sections 3141-3144, 3146, and 3147 of this title by Pub. L. 107-217, Secs. 1, 6(b), Aug. 21, 2002, 116 Stat. 1062, 1304.

(B) for medical or hospital care, pensions on retirement or death, compensation for injuries or illness resulting from occupational activity, or insurance to provide any of the forgoing, for unemployment benefits, life insurance, disability and sickness insurance, or accident insurance, for vacation and holiday pay, for defraying the costs of apprenticeship or other similar programs, or for other bona fide fringe benefits, but only where the contractor or subcontractor is not required by other federal, state, or local law to provide any of those benefits, the amount of—

(i) the rate of contribution irrevocably made by a contractor or subcontractor to a trustee or to a third person under a fund, plan, or program; and

(ii) the rate of costs to the contractor or subcontractor that may be reasonably anticipated in providing benefits to laborers and mechanics pursuant to an enforceable commitment to carry out a financially responsible plan or program which was communicated in writing to the laborers and mechanics affected.

Sec. 3142. Rate of wages for laborers and mechanics

(a) Application.— The advertised specifications for every contract in excess of $2,000, to which the Federal Government or the District of Columbia is a party, for construction, alteration, or repair, including painting and decorating, of public buildings and public works of the Government or the District of Columbia that are located in a State or the District of Columbia and which requires or involves the employment of mechanics or laborers shall contain a provision stating the minimum wages to be paid various classes of laborers and mechanics.

(b) Based on Prevailing Wage.— The minimum wages shall be based on the wages the Secretary of Labor determines to be prevailing for the corresponding classes of laborers and mechanics employed on projects of a character similar to the contract work in the civil subdivision of the State in which the work is to be performed, or in the District of Columbia if the work is to be performed there.

(c) Stipulations Required in Contract.— Every contract based upon the specifications referred to in subsection (a) must contain stipulations that—

(1) the contractor or subcontractor shall pay all mechanics and laborers employed directly on the site of the work, unconditionally and at least once a week, and without subsequent deduction or rebate on any account, the full amounts accrued at time of payment, computed at wage rates not less than those stated in the advertised specifications, regardless of any contractual relationship which may be alleged to exist between the contractor or subcontractor and the laborers and mechanics;

(2) the contractor will post the scale of wages to be paid in a prominent and easily accessible place at the site of the work; and

(3) there may be withheld from the contractor so much of accrued payments as the contracting officer considers necessary to pay to laborers and mechanics employed by the contractor or any subcontractor on the work the difference between the rates of wages required by the contract to be paid laborers and mechanics on the work and the rates of wages received by the laborers and mechanics and not refunded to the contractor or subcontractors or their agents.

(d) Discharge of Obligation.— The obligation of a contractor or subcontractor to make payment in accordance with the prevailing wage determinations of the Secretary of Labor, under this subchapter and other laws incorporating this subchapter by reference, may be discharged by making payments in cash, by making contributions described in section 3141(2)(B)(i) of this title, by assuming an enforceable commitment to bear the costs of a plan or program referred to in section 3141(2)(B)(ii) of this title, or by any combination of payment, contribution, and assumption, where the aggregate of the payments, contributions, and costs is not less than the basic hourly rate of pay plus the amount referred to in section 3141(2)(B) of this title.

(e) Overtime Pay.— In determining the overtime pay to which a laborer or mechanic is entitled under any federal law, the regular or basic hourly rate of pay (or other alternative rate on which premium rate of overtime compensation is computed) of the laborer or mechanic is deemed to be the rate computed under section 3141(2)(A) of this title, except that where the amount of payments, contributions, or costs incurred with respect to the laborer or mechanic exceeds the applicable prevailing wage, the regular or basic hourly rate of pay (or other alternative rate) is the amount of payments, contributions, or costs actually incurred with respect to the laborer or mechanic minus the greater of the amount of contributions or costs of the types described in section 3141(2)(B) of this title actually incurred with respect to the laborer or mechanic or the amount determined under section 3141(2)(B) of this title but not actually paid.

3141(2)(B) of this title but not actually paid. Sec.3143.

Every contract within the scope of this subchapter shall contain a provision that if the contracting officer finds that any laborer or mechanic employed by the contractor or any subcontractor directly on the site of the work covered by the contract has been or is being paid a rate of wages less than the rate of wages required by the contract to be paid, the Federal Government by written notice to the contractor may terminate the contractor's right to proceed with the work or the part of the work as to which there has been a failure to pay the required wages. The Government may have the work completed, by contract or otherwise, and the contractor and the contractor's sureties shall be liable to the Government for any excess costs the Government incurs.

Sec. 3144. Authority of Comptroller General to pay wages and list contractors violating contracts

(a) Payment of Wages.—

(1) In general.— The Comptroller General shall pay directly to laborers and mechanics from any accrued payments withheld under the terms of a contract any wages found to be due laborers and mechanics under this subchapter.

(2) Right of action.— If the accrued payments withheld under the terms of the contract are insufficient to reimburse all the laborers and mechanics who have not been paid the wages required under this subchapter, the laborers and mechanics have the same right to bring a civil action and intervene against the contractor and the contractor's sureties as is conferred by law on persons furnishing labor or materials. In those proceedings it is not a

defense that the laborers and mechanics accepted or agreed to accept less than the required rate of wages or voluntarily made refunds.

(b) List of Contractors Violating Contracts.—

(1) In general.— The Comptroller General shall distribute to all departments of the Federal Government a list of the names of persons whom the Comptroller General has found to have disregarded their obligations to employees and subcontractors.

(2) Restriction on awarding contracts.— No contract shall be awarded to persons appearing on the list or to any firm, corporation, partnership, or association in which the persons have an interest until three years have elapsed from the date of publication of the list.

* * * *

Sec. 3146. Effect on other federal laws

This subchapter does not supersede or impair any authority otherwise granted by federal law to provide for the establishment of specific wage rates.

Sec. 3147. Suspension of this subchapter during a national emergency

The President may suspend the provisions of this subchapter during a national emergency.

Sec. 3148. Application of this subchapter to certain contracts

This subchapter applies to a contract authorized by law that is made without regard to section 3709 of the Revised Statutes (41 U.S.C. 5), or on a cost-plus-a-fixed-fee basis or otherwise without advertising for proposals, if this subchapter otherwise would apply to the contract.

§ 13.2 Successors and Assigns

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to covenants, agreements, and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate the assignment.

§ 13.3 Rights and Remedies

§ 13.3.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

§ 13.3.2 No action or failure to act by the Owner, Architect, or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed upon in writing.

§ 13.4 Tests and Inspections

§ 13.4.1 Tests, inspections, and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules, and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of tests, inspections, or approvals that do not become requirements until after bids are received or negotiations concluded. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

§ 13.4.2 If the Architect, Owner, or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection, or approval not included under Section 13.4.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection, or approval, by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.4.3, shall be at the Owner's expense.

§ 13.4.3 If procedures for testing, inspection, or approval under Sections 13.4.1 and 13.4.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Architect's services and expenses, shall be at the Contractor's expense.

§ 13.4.4 Required certificates of testing, inspection, or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.4.5 If the Architect is to observe tests, inspections, or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.4.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.5 Interest

Payments due and unpaid under the Contract Documents shall bear interest from the date payment is due at the rate the parties agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

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ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 Termination by the Contractor

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, for any of the following reasons:

.1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;

.2 An act of government, such as a declaration of national emergency, that requires all Work to be stopped;

.3 Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or

.4 The Owner has failed to furnish to the Contractor reasonable evidence as required by Section 2.2.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, repeated suspensions, delays, or interruptions of the entire Work by the Owner as described in Section 14.3, constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed, as well as reasonable overhead and profit on Work not executed, and costs incurred by reason of such termination.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, or their agents or employees or any other persons or entities performing portions of the Work because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

§ 14.2 Termination by the Owner for Cause

§ 14.2.1 The Owner may terminate the Contract if the Contractor

.1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;

.2 fails to make payment to Subcontractors or suppliers in accordance with the respective agreements between the Contractor and the Subcontractors or suppliers;

.3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or

.4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the reasons described in Section 14.2.1 exist, and upon certification by the Architect that sufficient cause exists to justify such action, the Owner may, without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

.1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;

.2 Accept assignment of subcontracts pursuant to Section 5.4; and

.3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance,

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the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 Suspension by the Owner for Convenience

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work, in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay, or interruption under Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

.1 that performance is, was, or would have been, so suspended, delayed, or interrupted, by another cause for which the Contractor is responsible; or

.2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 Termination by the Owner for Convenience

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of notice from the Owner of such termination for the Owner's convenience, the Contractor shall

.1 cease operations as directed by the Owner in the notice;

.2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and

.3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Owner shall pay the Contractor for Work properly executed; costs incurred by reason of the termination, including costs attributable to termination of Subcontracts; and the termination fee, if any, set forth in the Agreement.

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 Claims

§ 15.1.1 Definition

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, a change in the Contract Time, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim. This Section 15.1.1 does not require the Owner to file a Claim in order to impose liquidated damages in accordance with the Contract Documents.

§ 15.1.2 Time Limits on Claims

The Owner and Contractor shall commence all Claims and causes of action against the other and arising out of or related to the Contract, whether in contract, tort, breach of warranty or otherwise, in accordance with the requirements of the binding dispute resolution method selected in the Agreement and within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all Claims and causes of action not commenced in accordance with this Section 15.1.2.

§ 15.1.3 Notice of Claims

§ 15.1.3.1 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered prior to expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party and to the Initial Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party under this Section 15.1.3.1 shall be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

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§ 15.1.3.2 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party. In such event, no decision by the Initial Decision Maker is required.

§ 15.1.4 Continuing Contract Performance

§ 15.1.4.1 Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

§ 15.1.4.2 The Contract Sum and Contract Time shall be adjusted in accordance with the Initial Decision Maker's decision, subject to the right of either party to proceed in accordance with this Article 15. The Architect will issue Certificates for Payment in accordance with the decision of the Initial Decision Maker.

§ 15.1.5 Claims for Additional Cost

If the Contractor wishes to make a Claim for an increase in the Contract Sum, notice as provided in Section 15.1.3 shall be given before proceeding to execute the portion of the Work that is the subject of the Claim. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.6 Claims for Additional Time

§ 15.1.6.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, notice as provided in Section 15.1.3 shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.6.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated, and had an adverse effect on the scheduled construction.

§ 15.1.7 Waiver of Claims for Consequential Damages

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

.1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and

.2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit, except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.7 shall be deemed to preclude assessment of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

§ 15.2 Initial Decision

§ 15.2.1 Claims, excluding those where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2 or arising under Sections 10.3, 10.4, and 11.5, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim. If an initial decision has not been rendered within 30 days after the Claim has been referred to the Initial Decision Maker, the party asserting the Claim may demand mediation and binding dispute resolution without a decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the

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Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of the request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished, or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date of receipt of an initial decision, demand in writing that the other party file for mediation. If such a demand is made and the party receiving the demand fails to file for mediation within 30 days after receipt thereof, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 Mediation

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract, except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.7, shall be subject to mediation as a condition precedent to binding dispute resolution.

§ 15.3.2 The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 15.3.3 Either party may, within 30 days from the date that mediation has been concluded without resolution of the dispute or 60 days after mediation has been demanded without resolution of the dispute, demand in writing that the other party file for binding dispute resolution. If such a demand is made and the party receiving the demand fails to file for binding dispute resolution within 60 days after receipt thereof, then both parties waive their rights to binding dispute resolution proceedings with respect to the initial decision.

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§ 15.3.4 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 Arbitration

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. The Arbitration shall be conducted in the place where the Project is located, unless another location is mutually agreed upon. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement, shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 15.4.4 Consolidation or Joinder

§ 15.4.4.1 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as those of the Owner and Contractor under this Agreement.

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SECTION 00800 - SUPPLEMENTARY CONDITIONS

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Identification of project Supplementary Conditions.

B. General Provisions.

C. Supplements.

1.02 IDENTIFICATION

A. The "Supplements" included herein modify the Project General Conditions (AIA Document A201) identified in section 00700.

1.03 GENERAL PROVISIONS

A. Where a portion of the Project General Conditions is modified by these Supplementary General Conditions, the unaltered portion shall remain in effect.

1.04 SUPPLEMENTS

SUPPLEMENTS TO GENERAL CONDITIONS
AIA DOCUMENT A201

ARTICLE 1 GENERAL PROVISIONS

SGC1 Amend subparagraph 1.1.1 of AIA General Conditions to include: Any stipulations made in the Advertisement for Bid, Instructions to Bidders or Supplements thereto or other elements of the Bidding Documents, which provide for specific requirements of the Contractor/Selected Bidder, shall also form a part of this Contract.

SGC2 Supplement paragraph 1.1.6 as follows:
Manufactured items installed per manufacturers' instructions, recommendations, directions, etc., latest edition unless otherwise specified. Manufacturers' Technical Association's or Societies or Government's Specifications referenced herein become a part of these specifications.

ARTICLE 2 OWNER

SGC3 Delete Subparagraph 2.2.5 and substitute the following:

2.2.5 The Contractor will be furnished ten (10) copies of the drawings and specifications by the owner. The Contractor may have printed at his own expense, any number of additional copies for its use during construction.

SGC4 Add to paragraph 2.4 new subparagraph 2.4.2 of the AIA General Conditions to read as follows:
Review by Owner: The owner or its authorized representatives, and agents shall, at all times, have access to and be permitted to observe and review all work, materials, equipment,

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payrolls, personnel records, employment conditions, material invoices and other relevant data and records pertaining to this Contract, provided, however, that all instructions and approval with respect to the work will be given the Contractor only by the Owner through its authorized representatives or agents.

ARTICLE 3 CONTRACTOR

SGC5 Supplement paragraph 3.2.1 as follows:

Any unusual condition found to exist at the site or discrepancies found on drawings shall be called to the attention of the Architect prior to submitting the bid and an interpretation requested from the Architect. If the Contractor fails to make such request, no excuse will be entertained thereafter for failure to carry out work in a satisfactory manner. No additional compensation will be allowed for such discrepancies or unusual conditions. Refer to paragraph 3.2 of INSTRUCTIONS TO BIDDERS.

SGC6 Add the following subparagraph 3.12.1.1 to 3.12.1 After the Contract has been executed, the Owner and the Architect will consider a formal request for substitution of products in place of those specified only under the conditions set forth in the General Requirements (Division 1 of the Specifications).

ARTICLE 4 ADMINISTRATION OF THE CONTRACT

SGC7 Add Clause 4.3.7.3

If the Contractor is delayed, hindered or impeded at any time in the progress of the Work for any reason or by any alleged act or neglect of the Owner or the Architect, or by any employee of either or by a separate Contractor employed by the Owner, or by changes ordered in the Scope of the Work, or by other causes beyond the Contractors control, then the Contract Time may be extended by Change Order for such reasonable time as agreed upon by the Owner. However, to the fullest extent permitted by law, and notwithstanding any other provisions in the Contract Documents, the Owner and its Agents, and employees shall not be liable for any damages for delay, whether for direct or indirect costs, extended home office overhead, idle or inefficient labor or equipment, cost escalations, or monetary claims of any nature arising from or attributable to delay by any cause whatsoever. The Contractors sole and exclusive right and remedy for delay by any cause whatsoever is an extension to the Contract Time but no increase in the Contract Sum.

SGC8 Delete section 4.5 Mediation in its entirety and substitute the following:

4.5 Settlement of Disputes and Claims: All claims, disputes, and other matters in question between the Contractor and the Owner as specifically described in section 4.5 and elsewhere in the Contract Documents shall be settled in the proper Courts of Law in lieu of specified Mediation.

SGC9 Delete section 4.6 Arbitration in its entirety and substitute the following:

4.6 Settlement of Disputes and Claims: All claims, disputes, and other matters in question between the Contractor and the Owner as specifically described in section 4.6 and elsewhere in the Contract Documents shall be settled in the proper Courts of Law in lieu of specified arbitration.

ARTICLE 5 SUBCONTRACTORS

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SGC10 Modify 5.2.1 to include the following:

No later than 10 days after the date of commencement, the contractor shall furnish in writing to the Owner through the Architect the names of persons or entities proposed as manufacturers for each of the products identified in General Requirements (Division 1 of the Specifications) and, where applicable, the names of the installing contractor.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

SGC11 Supplement subparagraph 6.2.1 as follows:
The General Contractor shall assist subcontractors in locating work elements so that accurate locations of their devices, materials, etc. may be determined.

ARTICLE 7 CHANGES IN THE WORK

SGC12 Supplement subparagraph 7.1.1 to read as follows:

The Contractor, after notifying the Architect of a claim for an increase in the Contract Sum, shall submit an itemized cost breakdown as to the total sum of the additional work and setting out the length of time in which this price will remain good. No work shall be begun pertaining to this additional cost until the Contractor has an executed copy of this change order document or, except in an emergency endangering life or property in which case, the Contractor shall proceed in accordance with subparagraph 10.3.1

ARTICLE 8 TIME

SGC13 8.1 subparagraph 8.1.2 shall include the following

The contractor shall man the project within seven (7) days after a notice to proceed is issued. The difference after the seven (7) days from the PROJECT START WORK DATE will be deducted from any extension(s) of time requested by the Contractor. An adjustment of time for weather or unforeseen circumstances will be determined by the project architect.

SGC14 8.1 add subparagraph 8.1.2.1

Any day(s), (excluding Saturday and Sunday) that are determined to be a workable day and the project site is **not manned** by the contractor, **shall be deducted** from any requested extension(s) of time whether unforeseen, Owner or weather related.

SGC15 8.3 subparagraph 8.3.3 shall include:

FAILURE TO COMPLETE WORK ON TIME:
Should the Contractor fail to complete the work within the specified time or within any extra time allowed under this contract, **$500.00** day shall be deducted from funds due the Contractor, or, if no money is due the Contractor, the Owner shall have the right to recover said sum or sums from the contractor, or from the surety, or from both. The amounts of these deductions are to cover liquidated damages to the owner incurred by additional or other expenses due to the failure of the Contractor to complete the work or any part of the work within the time specified and such deductions are not to be considered penalties.

ARTICLE 9 PAYMENTS AND COMPLETION

SGC16 Subparagraph 9.3.1 shall include the following:

Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided in the Contract Documents for the period ending the last day of the month as follows:
Not later than thirty (30) days following the end of the period covered by the Application for Payment ninety five percent (95%) of the portions of the Contract Sum properly allocable to labor, materials and equipment incorporated in the Work and ninety five percent (95%) of the portion of the Contract Sum properly allocable to materials and equipment suitably stored at the site or at some other location agreed upon in writing, for the period covered by the Application for Payment, less the aggregate of previous payments made by the Owner. Upon Substantial Completion of the entire work, a sum sufficient to increase the total payments to one hundred percent (100%) of the Contract Sum, less such accounts as the Architect shall determine for all incomplete work and unsettled claims as provided in the Contract Documents. The Contractor shall submit the Application for Payment to the Architect by the 5th day following the end of the period covered by the Application for Payment.

SGC17 Modify Section 9.3, paragraph 9.3.3 to include:

The provisions of this paragraph shall be inserted in all subcontracts and material contracts and notice of its provisions shall be given to all persons furnishing materials for the work when no formal contract is entered into for such materials. Nothing contained in this paragraph, however, shall defect or impair the right of persons furnishing materials or labor to recover under any bond given by the Contractor for their protection of any rights under any law permitting such persons to look to funds due the Contractor in the hands of the Owner.

SGC18 Modify section 9.8, subparagraph 9.8.1 to include:

The date of substantial completion of work or designated portion thereof is the date certified by the Architect when construction is sufficiently complete in accordance with the Contract Documents so the Owner may occupy the work or designated portion thereof for the use for which it is intended. Furthermore, neither the final certificate of payment nor any provisions in the Contract nor partial or entire use of the Improvements embraced in this Contract or relieve the warranties or responsibility for faulty materials or workmanship. The Contractor shall promptly remedy any defects in the work and pay for any damage to other work resulting therefrom that shall appear within a period of twelve (12) months from the date of final acceptance of the work or from the date of substantial completion.

SGC19 Paragraph 9.9.1 shall be modified to include:

The Owner shall have the right to take possession of and use any completed or partially completed portion of the work, notwithstanding the time for completing the entire work or such portion may not have expired and such taking possession and use shall not be deemed as acceptance of any work not completed in accordance with the Contract Documents. If such prior use increases the cost of or delays the work, the Contractor shall be entitled to such extra compensation or extension of time, or both, as the Owner may determine upon recommendation of the Architect.

SGC20 Supplement subparagraph 9.9.3 as follows:

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If final acceptance is made more than thirty days after date of substantial completion the guarantee period shall begin at date of **final acceptance.** Specified periods of warranty shall not apply in cases of fraud or concealed defects in workmanship or materials.

ARTICLE 11 INSURANCE AND BONDS

SGC21 Article 11 shall be supplemented as follows:

Insurance Requirements: Insurance coverage specified herein constitutes the minimum requirements and said requirements shall in no way lessen or limit the liability of the Contractor under the terms of the Contract. The Contractor shall procure and maintain at his own expense, any additional kinds and amounts of insurance that, in its own judgement, may be necessary for its proper protection in the prosecution of the work.

The Contractor shall carry insurance as prescribed herein and all policies shall be with companies satisfactory to the Owner.

If a part of this Contract is sublet, the Contractor shall require each subcontractor to carry insurance of the same kinds and in like amounts as carried by the prime contractor. Certificates of Insurance shall state that **thirty (30) days written notice** will be given to the Owner before the policy is canceled or changed. The Certificates of Insurance shall also state that the insurance carrier **will notify the owner prior to any cancellation or changes**. Any wording to the effect of "will attempt" or "will endeavor" and that the owner will not hold the carrier blameless **SHALL BE** removed or deleted from Insurance Certificate. No Contractor or subcontractor will be allowed to start any construction work on this contract until certificates of all insurance required herein are approved by the Architect. The certificates shall show the type, amount, class or operations covered, effective dates and dates of expiration of policies.

The Contractor shall secure and maintain in effect for the period of the contract and pay all premiums for the following kinds of insurance:

A. Workmen's Compensation and Employer's Liability Insurance:
This insurance shall protect the Contractor against all claims under applicable State Workmen's Compensation Laws. The Contractor shall also be protected and shall cause each subcontractor to be protected against claims for injury, disease or death of employees which for any reason may not fall within the provisions of the Workmen's Compensation Law. The liability limits shall not be less than the required statutory for Workmen's Compensation and Employer's Liability in the amount of one hundred thousand dollars ($100,000.00) for each person. This policy shall include an "all state" endorsement.

B. Contractor's Comprehensive Public Liability and Property Damage Insurance: Covering all operations in connection with the performance of this contract in amounts not less than the following:
Bodily injury liability: In the amount of One Million dollars ($1,000,000.00) for each person and One Million dollars ($1,000,000.00) for each accident and property damage liability in the amount of One Million dollars ($1,000,000.00) for all damages arising out of the injury or destruction of property in any one accident and subject to that limit per accident a total (or aggregate) limit of One Million dollars ($1,000,000.00) for all damages arising out of injury or to destruction of property during the policy period. The Comprehensive Public Liability and Property Damage

policies carried by both the prime and subcontractors shall contain an endorsement to include the coverage of the following hazards.

1. Explosion, collapse and underground property damage or destruction of property below the surface of the ground such as wires, conduits, pipes, mains, sewers, etc. caused by the Contractors operations.
2. The collapse of and structural injury to any building, structure or property on or adjacent to the City's premises caused by the Contractor's operations in the removal of other buildings, structures or supports, or by excavation below the surface of the ground.
3. Contractual Liability Coverage for the "Hold Harmless" segments of the contract Documents.

C. Contractor's Contingent or Protective Liability and Property Damage:
In case part of this contract is sublet the Contractor shall secure contingent or protective liability and property damage insurance to protect him from any and all claims arising from the operation of his subcontractor in the execution of work included in the Contract. In no case shall the amount of such protection be less than the limits of $500,000.00/$1,000,000.00 for Property Damage Insurance. The coverage in each case shall be acceptable to the Owner.

D. Automotive Public Liability and Property Damage:
The Contractor shall maintain automobile public liability insurance in the amount of not less than $250,000.00 for injury to one person and $500,000.00 for one accident and automobile property damage from any and all claims arising from the use of the following:

1. Contractor's own automobiles and trucks
2. Hired automobiles and trucks
3. Automobiles and trucks owned by subcontractors

The aforementioned is to cover use of automobiles and trucks on and off the site of the project.

E. Owners Protective Liability Policy:
The Contractor shall maintain Owner's Protective Liability insurance with Noxubee County School District is as the named insured and their servants, agents and employees as additional insured in amounts not less than the following.

1. Bodily injury in the amount of One million dollars ($1,000,000.00) for each person and One million dollars ($1,000,000.00) for each accident and property damage liability in the amount One million dollars ($1,000,000.00) for all damages arising out of an injury or destruction of property in any one accident and subject to that limit per accident a total (or aggregate) limit of One million dollars (1,000,000.00) for all property during the policy period.

F. Builder's Risk Insurance (Fire and Extended Coverage):

Until the project is completed and is accepted by the Owner, the Contractor is required to maintain Builder's Risk Insurance (fire and extended coverage) adequate to fully cover the insurable portion of the project for the benefit of the Owner, the prime Contractor and subcontractors as their interests may appear.

ARTICLE 13 TESTS AND INSPECTIONS

SGC22 Amend subparagraph 13.5.1 as follows:

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A. The Contractor shall notify the Owner sufficiently in advance of backfilling or concealing any facilities to permit proper inspection. If the Contractor fails to notify Owner, the Contractor shall uncover for inspection and recover such facilities all at his own expense when so requested by the Owner or the Architect.

B. Inspection of materials and appurtenances to be incorporated in the improvements embraced in this Contract may be at the place of production, manufacture or shipment, whenever the quantity justifies it and such inspection and acceptance unless otherwise stated herein shall be final except as regards:
1. Latent defects
2. Departures from specific requirements of the contract
3. Damage or loss in transit
4. Fraud or such gross mistake as amounts to fraud, subject to the requirements contained in the preceding sentence the inspection of materials as a whole or in part may be made at the project site.

C. Neither inspection, testing, approval or acceptance of the work in whole or in part by the Owner or its agents shall relive the Contractor or his sureties of full responsibility for materials furnished, or work performed not in strict accordance with the contract.

ARTICLE 14 TERMINATION BY THE OWNER FOR CAUSE

SGC24 Amend paragraph 14.2 of AIA General Conditions by adding the following:

Termination or Breach:

A. In the event that any of the provisions of the Contract are violated by the Contractor or by any of his subcontractors, the Owner may serve written notice upon the Contractor and his surety of its intention to terminate the contract. Such notices shall contain the reasons for such intention to terminate the contract and unless within ten (10) days after the serving of such notice upon the Contractor such violation will cease and satisfactory arrangement for correction be made, the contract shall, upon expiration of said ten (10) days, cease and terminate.

B. In the event of any such termination, the Owner shall immediately serve notice thereof upon the surety and the Contractor and the surety shall have the right to take over and perform the contract; provided, however, that if the surety does not commence performance thereof within thirty (30) days from the date of the mailing to such surety of the notice of termination, the Owner may take over the work and prosecute the same to completion by contract for the account of and at the expense of the Contractor and the Contractor and his surety shall be liable to the Owner for any excess cost. In such event the Owner may take possession of and utilize in completing the work such materials and appliances as may be on the site of the work and necessary therefor.

ARTICLE 15 CLAIMS AND DISPUTES

SGC25 15.1.6 Claims for Additional Time

15.1.6.2 Add at the end of Section 15.1.6.2 the following:

The Contractor shall submit with each Application for Payment a separate letter stating that, with respect to the period of time covered by the Application for Payment, (1) Contractor is requesting, or will request, an extension of time for adverse weather conditions, or (2) Contractor has no claim for an

extension of time for adverse weather conditions. Payment shall not be due Contractor on an Application for Payment until the letter is received. Any request for an extension of time due to adverse weather conditions shall be accompanied by documentation supporting and justifying the request, including, but not limited to, weather reports, daily work reports, correspondence and any other data or documentation addressing each work day for which a request for an extension of time is made.

15.1.6.3 Add a new Section 15.1.6.3 as follows:

This Section 15.1.6.3 governs the procedure for determination of time extensions for abnormally adverse or unusually severe weather. In order for the Owner and Architect to agree to an extension of the Contract Time, the following conditions must be satisfied: (1) the weather experienced at the Project site must be abnormally adverse or unusually severe; that is, more severe than the adverse weather anticipated for the Project location during any given month; (2) the abnormally adverse or unusually severe weather must actually cause a delay in the completion of the Project; and (3) the delay must be beyond the control and without the fault or negligence of the Contractor.

The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the Project location and will constitute the baseline for monthly weather time evaluations. The Contractor's activity durations in the progress schedule must reflect these anticipated adverse weather delays in all-weather dependent activities.

MONTHLY ANTICIPATED ADVERSE WEATHER DAYS BASED ON FIVE (5) DAY WORK WEEK:

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
(8)	(6)	(8)	(6)	(7)	(6)	(7)	(6)	(5)	(4)	(6)	(7)

Upon receipt of the notice to proceed and continuing throughout the performance of the Contract, the Contractor shall record on the daily report the occurrence of any adverse or unusually severe weather conditions and any resultant impact to normally scheduled Work. Actual adverse or unusually severe weather days must prevent work on the Project's critical activities for fifty percent (50%) or more of the Contractor's scheduled work day. The number of actual adverse or unusually severe weather days shall include days impacted by actual adverse weather (even if adverse weather occurred in a previous month), shall be calculated chronologically from the first day to the last day of each month, and shall be recorded as full days. If the number of actual adverse or unusually severe weather days exceeds the number of days anticipated set forth in the chart above, the Owner and the Architect will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather work days, and issue a Modification in accordance with the Contract.

END OF SECTION 00800

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SECTION 00900 - INSURANCE REQUIREMENTS

PART 1 - GENERAL

1.01 INSURANCE

A. Liability insurance shall include all major divisions of coverage and be on a comprehensive basis including:
1. Premises - operations (including X-C-U)
2. Independent contractor's protective
3. Product and completed operations
4. Contractual - including specified provisions for all contractor's obligations
5. Owned, non-owned and hire motor vehicles
6. Broad form coverage for property damage.

B. Limits: The insurance required shall be written for not less than the following, or greater as required by law:
1. Automobile/Vehicle Liability: Contractor's insurance shall provide coverage for "ANY AUTO". This includes but is not necessarily limited to Owned, Hired, Leased, and Non-Owned Coverage.
Limits of Liability:
Combined Single Limit Each Accident - $1,000,000
Minimum Liability limits shall be at least $1,000,000 combined single limit for each accident for Bodily Injury and for Property Damage.
2. Commercial General Liability ("CGL"): Contractor's insurance shall provide CGL coverage written on ISO Concurrence Form CG 00 01 10 93 or substitute form satisfactory to the Owner and providing equivalent coverage, including as a minimum the overages listed below:
   a. Premises and Operation
   b. Independent Contractors
   c. Products and Completed Operations
   d. Personal and Advertising Injury Liability
   e. Broad Form Property Damage
   f. Per Project Aggregate Endorsement
   g. Contractual Liability insuring the obligations assumed in the Subcontract
   h. Explosion, Collapse, and Underground Coverage
Limits of Liability:
Per Occurrence - $1,000,000
Products/Completed Operations Aggregate - $2,000,000
General Annual Aggregate - $2,000,000
Minimum liability limits for CGL coverage shall be at least $1,000,000 Each Occurrence, $2,000,000 Products/Completed Operations Aggregate, $1,000,000 Personal and Advertising Injury, $100,000 Fire Damage (any one fire), $5,000 Medical Expense (any one person) and $2,000,000 General Annual Aggregate. (All aggregate coverage limits shall apply separately for this Project).
3. Commercial Umbrella:
Limits of Liability:
Minimum Limits of liability shall be at least $1,000,000

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4. Workers Compensation and Employers Liability:
Limits of Liability:
Workers Compensation – Statutory
(Note: Contractor is required by this Agreement to obtain Workers Compensation Insurance whether or not Contractor has a statutory exemption. The above reference to "Statutory" applies only to the limits required for such coverage).
Employers' Liability – Statutory but not less than: $500,000 each accident for bodily injury by accident and $500,000 each employee for injury by disease.
(Reference to "Statutory" applies to limits in same manner as for Workers' Compensation Insurance explained above).
Subcontractor shall obtain the following if indicated as applicable:
   a. U.S. Longshoremen's and Harbor workers Compensation Act Endorsement
   b. Marine Coverage Endorsement

The intent of these limits is to supplement the Standard Contract Terms, and requirements stated herein are in addition to those set forth in the Standard Contract Terms and Conditions. In the event of any inconsistency, ambiguity, or conflict between these limits and the Standard Contract Terms and Conditions or requirements in any other Attachment, the Contractor shall meet the requirements that afford highest limits, broadest coverage, and greatest protection to the Contractor.

C. Furnish Certificate of Insurance specifically setting forth evidence of all coverage required. Form of Certificate shall be AIA Document G715 or similar company form. Furnish Owner copies of any endorsements subsequently issued amending coverage limits. Please see attached example for insurance certificate.

1.01 OWNER'S LIABILITY INSURANCE

A. Contractor shall furnish such insurance to protect Owner from his contingent liability to others for damages because of bodily injury, including death which may arise from operations under this Contract and other liability for damages which the Contractor is required to insure under any provision of this Contract. Certificate of this insurance shall be filed with Owner with the same limits as set forth above.

1.02 PROPERTY DAMAGE

A. Contractor shall maintain property insurance upon the entire work at the Site. Coverage is limited to Work under this Contract and the contract amount. Contractor shall furnish copies of all polices before exposure to loss can occur.

B. Insurance shall include the interests of the Owner, Contractor, subcontractors, sub-subcontractors, and material suppliers in the Work and shall insure against the perils of fire and extended coverage and shall include "all risk" insurance for physical loss or damage including theft, vandalism, and malicious mischief.

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SECTION 01100 – SUMMARY OF WORK

PART 1 – GENERAL

1.01 PROJECT AND THE WORK

A. Project Name: The Updated Lighting Project for: Grambling State University

B. Owner's Name: Grambling State University

C. Architect's Name: Mc3lroy Architecture, PLLC / William L. McElroy, AIA, NCARB

D. The Project consists of the construction of the Work defined as:

"The Construction of the Project as required by the Contract Documents." The Work shall include all labor, materials, equipment, services, and related activities and procedures necessary to produce the completed construction as shown on the Drawings and required by the Specifications.

1.02 CONTRACT DESCRIPTION

A. Contract Type: The Work will be constructed by an Owner Awarded Contractor from qualified respondents. The General Contractor will be selected based on an open bid process. The Work shall be completed under a single "lump sum" contracts, guaranteed maximum price (GMP).

1.03 WORKS BY OWNER

A. Items that will be supplied by the Owner before Substantial Completion and installed by the Contractor covering the scope of Work.

1.04 OWNER OCCUPANCY

A. The Owner intends to occupy the Project upon Substantial Completion.

B. Cooperate with Grambling Ste University to minimize conflict and to facilitate District operations.

C. Schedule the Work to accommodate Grambling State University occupancy.

1.05 CONTRACTOR USE OF SITE AND PREMISES

A. Construction Operations: Limited to areas noted on Drawings.

B. Arrange use of site and premises to allow:
1. Work by Others.
2. Work by Grambling State University.

C. Provide access to and from site as required by law and by Grambling State University:
1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period;

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provide temporary exit signs if exit routes are temporarily altered.

2. Do not obstruct roadways, sidewalks, or other public ways without permit.

D. Time Restrictions:

1. Limit conduct of especially noisy exterior work to the hours of 7:00 a.m. – 5:00 p.m.

E. Utility Outages and Shutdown:

1. Limit shutdown of utility services to 7:00 a.m. – 5:00 p.m. hours at a time, arranged at least 24 hours in advance with Grambling State University.
2. Prevent accidental disruption of utility services to other facilities.

1.06 WORK SEQUENCE

A. Coordinate construction schedule and operations with Grambling State University.

B. Coordinate construction schedule and operations with Mc3lroy Architecture, PLLC.

PART 2 – PRODUCTS (NOT APPLICABLE) PART 3 –

EXECUTION (NOT APPLICABLE)

END OF SECTION 01100

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SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Preconstruction meeting.

B. Site mobilization meeting.

C. Progress meetings.

D. Construction progress schedule.

E. Progress photographs.

F. Coordination drawings.

G. Submittals for review, information, and project closeout.

H. Number of copies of submittals.

I. Submittal procedures.

J. Project Closeout Conference

1.02 RELATED SECTIONS

A. Document 00700 - General Conditions: Dates for applications for payment.

B. Section 01325 - Construction Progress Schedule: Form, content, and administration of schedules.

C. Section 01700 - Execution Requirements: Additional coordination requirements.

D. Section 01780 - Closeout Submittals: Project record documents.

1.03 PROJECT COORDINATION

A. Project Coordinator: defined as an Owner employed Construction Administrator

B. Cooperate with the Project Coordinator in allocation of mobilization areas of site; for field offices and sheds, for vehicular access, traffic, and parking facilities.

C. During construction, coordinate use of site and facilities through the Project Coordinator.

D. Comply with Project Coordinator's procedures for intra-project communications; submittals, reports and records, schedules, coordination drawings, and recommendations; and resolution of ambiguities and conflicts.

E. Comply with instructions of the Project Coordinator for use of temporary utilities and construction facilities.

F. Coordinate field engineering and layout work under instructions of the Project Coordinator.

G. Make the following types of submittals to Mc3lroy Architecture, PLLC.

1. Requests for interpretation.
2. Requests for substitution.
3. Shop drawings, product data, and samples.
4. Test and inspection reports.
5. Manufacturer's instructions and field reports.
6. Applications for payment and change order requests.
7. Progress schedules.
8. Coordination drawings.
9. Closeout submittals.

PART 2 – PRODUCTS (NOT APPLICABLE)

PART 3 – EXECUTION

3.01 PRECONSTRUCTION MEETING

A. Mc3lroy Architecture, PLLC. will schedule a meeting after Notice of Award.

B. Attendance Required:
1. Grambling State University - Owner
2. Mc3lroy Architecture, PLLC / William L. McElroy, AIA, NCARB – Project Architect
3. – Project Civil Engineer.
4. – Project Electrical/ Mechanical/ Plumbing/ Structural Engineer
5. All Project Contractors and Sub Contractors.

C. Agenda:
1. Execution of Grambling State University- Agreement.
2. Submission of executed bonds and insurance certificates.
3. Distribution of Contract Documents.
4. Submission of list of Subcontractors, list of Products, schedule of values, and progress schedule.
5. Designation of personnel representing the parties to Contract and Mc3lroy Architecture, PLLC / William . L. McElroy, AIA, NCARB.
6. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
7. Scheduling.

D. Mc3lroy will record minutes and distribute copies within two days after meeting to participants, with copies to Grambling State University, participants, and those affected by decisions made.

3.02 SITE MOBILIZATION MEETING

A. General Contractor will schedule a meeting at the Project site prior to occupancy.

B. Attendance Required:
1. Grambling State University - Owner
2. Mc3lroy Architecture, PLLC / William L. McElroy, AIA, NCARB – Project Architect
3. – Project Civil Engineer.
4. – Project Electrical/ Mechanical/ Plumbing/ Structural Engineer
5. All Project Contractors and Sub Contractors.

C. Agenda:

1. Use of premises by Grambling State University and.
2. Grambling State University requirements and occupancy prior to completion.
3. Construction facilities and controls provided by General Contractor
4. Temporary utilities provided by General Contractor.
5. Survey and building layout.
6. Security and housekeeping procedures.
7. Schedules.
8. Application for payment procedures.
9. Procedures for testing.
10. Procedures for maintaining record documents.
11. Requirements for start-up of equipment.
12. Inspection and acceptance of equipment put into service during construction period.

D. General Contractor will record minutes and distribute copies within two days after meeting to participants, with copies to Grambling State University District, participants, and those affected by decisions made.

3.03 PROGRESS MEETINGS

A. General Contractor will schedule and administer meetings throughout progress of the Work at maximum monthly intervals.

B. General Contractor will make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.

C. Attendance Required:

1. Job superintendent, major Subcontractors and suppliers,
2. Grambling State University - Owner
3. Mc3lroy Architecture, PLLC / William L. McElroy, AIA, NCARB – Project Architect
4. – Project Civil Engineer.
5. – Project Mechanical/Electrical/Plumbing/Structural Engineer
6. All Project Contractors and Sub Contractors.

D. Agenda:

1. Review minutes of previous meetings.
2. Review of Work progress.
3. Field observations, problems, and decisions.
4. Identification of problems that impede, or will impede, planned progress.
5. Review of submittals schedule and status of submittals.
6. Review of off-site fabrication and delivery schedules.
7. Maintenance of progress schedule.
8. Corrective measures to regain projected schedules.
9. Planned progress during succeeding work period.
10. Coordination of projected progress.
11. Maintenance of quality and work standards.
12. Effect of proposed changes on progress schedule and coordination.

13. Other business relating to Work.

E. General Contractor will record minutes and distribute copies within two days after meeting to participants, with copies to Grambling State
   1. Manufacturer's instructions.
   2. Manufacturer's field reports.
   3. Other types indicated.

F. Submit for Mc3lroy Architecture, PLLC.'s knowledge as contract administrator or for Grambling State University. No action will be taken.

3.04 SUBMITTALS FOR PROJECT CLOSEOUT

A. When the following are specified in individual sections, submit them at project closeout:
   1. Project record documents.
   2. Operation and maintenance data.
   3. Warranties.
   4. Bonds.
   5. Other types as indicated.

B. Submit for Grambling State University's benefit during and after project completion.

3.10 NUMBER OF COPIES OF SUBMITTALS

A. Documents for Review:
   1. Small Size Sheets, Not Larger than 8-1/2 x 11 inches: Submit the number of copies required, plus two copies that will be retained by Mc3lroy Architecture, PLLC.

B. Documents for Information: Submit the number of copies required, plus two copies that will be retained by Mc3lroy Architecture, PLLC.

C. Documents for Project Closeout: Make one reproduction of submittal originally reviewed. Submit one extra of submittals for information.

D. Samples: Submit the number specified in individual specification sections; one of which will be retained by Mc3lroy Architecture, PLLC..
   1. After review, produce duplicates.
   2. Retained samples will not be returned to unless specifically so stated.

E. Minimum number of submittals required shall be **FIVE (5).**

3.11 SUBMITTAL PROCEDURES

A. Transmit each submittal with AIA Form G810.

B. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.

C. Identify Project, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy.

D. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.

E. Deliver submittals to Mc3lroy Architecture PLLC.

F. Schedule submittals to expedite the Project, and coordinate submission of related items.

G. For each submittal for review, allow 15 days excluding delivery time to and from the professionals.

H. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.

I. Provide space for Consulting Engineers and Mc3lroy Architecture, PLLC. review stamps.

J. When revised for resubmission, identify all changes made since previous submission.

K. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.

L. Submittals not requested will not be recognized or processed.

3.01 PROJECT CLOSEOUT CONFERENCE

A. Mc3lroy Architecture, PLLC. Will schedule and administer a Project Closeout Conference once Final Acceptance has been achieved.

B. Attendance Required:
1. Grambling State University - Owner
2. Mc3lory Architecture, PLLC / William L. McElroy, AIA, NCARB – Project Architect
3. – Project Civil Engineer.
4. – Project Mechanical/Electrical/Plumbing/Structural Engineer
7. All Project Contractors and Sub Contractors.

C. Agenda:
1. Project record documents.
2. Operation and maintenance data.
3. Warranties.
4. Bonds.
5. Other types as indicated.
6. Coordination of Owner Training

D. Mc3lroy will record minutes and distribute copies within two days after meeting to participants, with copies to Grambling State University, participants, and those affected by decisions made.

END OF SECTION 01300

C.

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SECTION 01325 - CONSTRUCTION PROGRESS SCHEDULE

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Preliminary schedule.

B. Construction progress schedule, bar chart type.

1.02 RELATED SECTIONS

A. Section 01100 - Summary: Work sequence.

1.03 REFERENCES

A. AGC (CPSM) - Construction Planning and Scheduling Manual; Associated General Contractors of America; 2004.

B. M-H (CPM) - CPM in Construction Management - Project Management with CPM, O'Brien, McGraw-Hill Book Company; 2006.

1.04 SUBMITTALS

A. Within 10 days after date of Agreement, submit preliminary schedule defining planned operations for the first 60 days of Work, with a general outline for remainder of Work.

B. If preliminary schedule requires revision after review, submit revised schedule within 10 days.

C. Within 20 days after review of preliminary schedule, submit draft of proposed complete schedule for review.

1. Include written certification that major contractors have reviewed and accepted proposed schedule.

D. Within 10 days after joint review, submit complete schedule.

E. Submit updated schedule with each Application for Payment.

F. Submit the number of opaque reproductions that requires, plus two copies that will be retained by Mc3lroy Architecture, PLLC.

1.05 QUALITY ASSURANCE

A. Scheduler: Contractor's personnel or specialist Consultant specializing in CPM scheduling with one years minimum experience in scheduling construction work of a complexity comparable to this Project, and having use of computer facilities capable of delivering a detailed graphic printout within 48 hours of request.

B. Contractor's Administrative Personnel: Five (5) years minimum experience in using and monitoring CPM schedules on comparable projects.

1.06 SCHEDULE FORMAT

A. Listings: In chronological order according to the start date for each activity. Identify each activity with the applicable specification section number.

B. Diagram Sheet Size: Maximum 22 x 17 inches or width required.

C. Sheet Size: Multiples of 8-1/2 x 11 inches.

D. Scale and Spacing: To allow for notations and revisions.

PART 2 – PRODUCTS (NOT APPLICABLE)

PART 3 – EXECUTION

3.01 PRELIMINARY SCHEDULE

A. Prepare preliminary schedule in the form of a horizontal bar chart.

3.02 CONTENT

A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.

B. Identify each item by specification section number.

C. Identify work of separate stages and other logically grouped activities.

D. Provide sub-schedules for each stage of Work identified in Section 01100.

E. Provide sub-schedules to define critical portions of the entire schedule.

F. Include conferences and meetings in schedule.

G. Show accumulated percentage of completion of each item, and total percentage of Work completed, as of the first day of each month.

H. Coordinate content with schedule of values specified in Section 01200.

I. Provide legend for symbols and abbreviations used.

3.03 BAR CHARTS

A. Include a separate bar for each major portion of Work or operation.

B. Identify the first work day of each week.

3.04 REVIEW AND EVALUATION OF SCHEDULE

A. Participate in joint review and evaluation of schedule with Mc3lroy Architecture, PLLC at each submittal.

B. Evaluate project status to determine work behind schedule and work ahead of schedule.

C. After review, revise as necessary as result of review, and resubmit within 10 days.

3.05 UPDATING SCHEDULE

A. Maintain schedules to record actual start and finish dates of completed activities.

B. Indicate progress of each activity to date of revision, with projected completion date of each activity.

C. Annotate diagrams to graphically depict current status of Work.

Identify activities modified since previous submittal, major changes in Work, and other identifiable changes.

D. Indicate changes required to maintain Date of Substantial Completion.

E. Submit reports required to support recommended changes.

F. Provide narrative report to define problem areas, anticipated delays, and impact on the schedule. Report corrective action taken or proposed and its effect including the effects of changes on schedules of separate contractors.

3.06 DISTRIBUTION OF SCHEDULE

A. Distribute copies of updated schedules to Contractor's project site file, to Subcontractors, suppliers, Mc3lroy Architecture, PLLC, Grambling State University, and other concerned parties.

B. Instruct recipients to promptly report, in writing, problems anticipated by projections shown in schedules.

END OF SECTION 01325

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SECTION 01410 - TESTING LABORATORY SERVICES

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Procedures and responsibilities for providing and using Testing Laboratory.

1.02 REFERENCES

A. ANSI/ASTM E329 - Recommended Practice for Inspection and Testing Agencies for Concrete, Steel, and Bituminous Materials as Used in Construction.

1.03 SELECTION AND PAYMENT

A. The Owner shall employ and pay for services of an independent Testing Laboratory to perform specified inspections and/or sampling and testing. Employment of Testing Laboratory shall in no way relieve Contractor of obligation to perform work in accordance with requirements of Contract Documents.

B. Owner will be responsible for basic testing requirements as specified in the Project Manual. Payment for additional testing required due to defective work, failed initial testing, or testing lab fees for site visit when work to be tested is not ready to be tested shall be incurred by the Contractor.

1.04 QUALITY ASSURANCE

A. Meet "Recommended Requirements for Independent Laboratory Qualifications", published by American Council of Independent Laboratories.

B. Comply with requirements of ANSI/ASTM E329 and ANSI/ASTM D3740.

C. Laboratory: Legally authorized to operate in the State of Louisana

D. Laboratory Staff: Thoroughly trained and experienced in the types of testing required for the Project and with a full-time registered Engineer on staff to monitor and review services, analyze and interpret tests.

E. Testing Equipment: Calibrated at reasonable intervals with devices of accuracy traceable to either National Bureau of Standards (NBS) or accepted values of natural physical constants.

1.05 OWNER SUBMITTALS

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A. Prior to start of Work, Owner shall submit testing laboratory name, address, and telephone number, and names of full time registered Engineer and responsible officer.

B. Submit qualifications of technicians, inspections and engineers to perform services for Project. Submit copy of report of laboratory facilities inspection made by Materials Reference Laboratory of National Bureau of Standards (NBS) during most recent tour of inspection, with memorandum of remedies of any deficiencies reported by the inspection.

1.06 COORDINATION

A. Coordinate work under provisions of Sections 01400.

1.07 LABORATORY RESPONSIBILITIES

A. Provide qualified personnel (with minimum two years experience with selected testing agency) at site. Cooperate with Architect and Contractor in
performance of services.

B. Perform specified inspection, sampling, and testing of Products and design mixes in accordance with specified standards. Refer to individual Specifications Sections for required standards, types and frequency of Field
Testing.

C. Ascertain compliance of materials and mixes with requirements of Contract Documents.

1. Promptly notify Architect and Contractor of observed irregularities or non-conformance of Work or Products.
2. Perform additional inspections and tests required by Architect.
3. Attend preconstruction conferences and progress meetings (which occur during periods of work requiring testing).

1.08 LABORATORY REPORTS

A. After each inspection and test, promptly submit two (2) copies of laboratory report to Owner, Architect, Engineer and Contractor.

B. Laboratory reports shall include the following:

1. Date issued.
2. Project title and number.
3. Name of inspector.
4. Date and time of sampling or inspection.
5. Identification of product and Specifications Section.
6. Location in the Project.
7. Type of inspection or test.

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8. Date of test.
9. Results of tests.
10. Conformance with Contract Documents.

C. When requested by Architect, provide interpretation of test results.

1.09 LIMITS ON TESTING LABORATORY AUTHORITY

A. Laboratory may not release, revoke, alter, or enlarge on requirements of Contract Documents.

B. Laboratory may not approve or accept any portion of the Work.

C. Laboratory may not assume any duties of Contractor.

D. Laboratory has no authority to stop the Work.

1.10 CONTRACTOR RESPONSIBILITIES

A. Coordinate delivery by testing lab, to laboratory at designated location, adequate samples of materials proposed to be used which require testing, along with proposed mix designs.

B. Cooperate with laboratory personnel, and provide access to the Work and to manufacturer's facilities.

C. Provide incidental labor and facilities to provide access to Work to be tested, to obtain and handle samples at the site or at source of products to be tested, to facilitate tests and inspections, storage and curing of test samples.

D. Notify Architect/Engineer and laboratory 24 hours prior to expected time for operations requiring inspection and testing services.

E. Perform no work which requires laboratory inspection services unless laboratory representative is on site observing work.

1.11 SCHEDULE OF INSPECTIONS AND TESTS

A. Refer to individual Specifications Sections.

B. To be determined jointly by Architect and Contractor with respect to the requirements of the governing agencies.

PART 2 - PRODUCTS (NOT APPLICABLE) PART 3 -

EXECUTION (NOT APPLICABLE)

END OF SECTION 01410

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SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Temporary utilities.

B. Temporary telecommunications services.

C. Temporary sanitary facilities.

D. Temporary Controls: Barriers, enclosures, and fencing.

E. Security requirements.

F. Vehicular access and parking.

G. Waste removal facilities and services.

H. Project identification sign.

I. Field offices.

1.02 RELATED SECTIONS

A. Section 01510 - Temporary Utilities.

B. Section 01525 - Field Offices.

C. Section 01550 - Vehicular Access and Parking.

D. Section 01565 - Security Measures.

E. Section 01585 - Project Signs.

1.03 TEMPORARY UTILITIES - See Section 01510

A. Contractor to provide and pay for all electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes.

B. Use trigger-operated nozzles for water hoses, to avoid waste of water.

1.04 TELECOMMUNICATIONS SERVICES

A. Provide, maintain, and pay for telecommunications services to field office at time of project mobilization.

B. Telecommunications services shall include:
   1. Telephone Land Lines: One line, minimum; one handset per line.

1.05 TEMPORARY SANITARY FACILITIES

A. Contractor to provide and maintain required facilities and enclosures. Provide at time of project mobilization.

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B. Contractor to maintain in clean and sanitary condition.

1.06 BARRIERS

A. Provide barriers to prevent unauthorized entry to construction areas, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

B. Provide barricades and covered walkways required by governing authorities for public rights-of-way and for public access to existing building.

C. Provide protection for plants designated to remain. Replace damaged plants.

D. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.07 EXTERIOR ENCLOSURES

A. Contractor to provide temporary insulated weather tight closure of exterior openings to accommodate acceptable working conditions and protection for Products, to allow for temporary heating and maintenance of required ambient temperatures identified in individual specification sections, and to prevent entry of unauthorized persons. Provide access doors with self- closing hardware and locks.

1.08 INTERIOR ENCLOSURES

A. Contractor to provide temporary partitions and ceilings as indicated to separate work areas, to prevent penetration of dust and moisture, and to prevent damage to installed materials and equipment.

B. Construction: Framing and reinforced polyethylene sheet materials with closed joints and sealed edges at intersections with existing surfaces:
1. Insulated to R 19.
2. STC rating of 35 in accordance with ASTM E 90.
3. Maximum flame spread rating of 75 in accordance with ASTM E 84.

1.09 SECURITY - See Section 01565

A. Contractor to provide security and facilities to protect Work, and Monroe City School District operations from unauthorized entry, vandalism, or theft.

1.10 VEHICULAR ACCESS AND PARKING - See Section 01550

A. Coordinate access and haul routes with governing authorities.

B. Provide and maintain access to fire hydrants, free of obstructions.

C. Provide means of removing mud from vehicle wheels before

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entering streets.

D. Provide temporary parking areas to accommodate construction personnel as directed by Architect. When site space is not adequate, provide additional off-site parking.

1.11 WASTE REMOVAL

A. See Section 01732 - Waste Management, for additional requirements.

B. Contractor to provide waste removal facilities and services as required maintaining the site in clean and orderly condition.

C. Provide containers with lids. Remove trash from site periodically.

D. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.

E. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

1.12 PROJECT IDENTIFICATION

A. Contractor to provide project identification sign of design and construction indicated by Mc3lroy Architecture, PLLC.

B. Erect on site at location established by Mc3lroy Architecture, PLLC.

C. No other signs are allowed without Owner/Architect permission except those required by law.

1.13 FIELD OFFICES - See Section 01525

A. Contractor Office: Weather tight, with lighting, electrical outlets, heating, cooling equipment, and equipped with sturdy furniture, drawing rack and drawing display table.

B. Provide space for Project meetings, with table and chairs to accommodate 6 persons minimum.

C. Locate offices a minimum distance of 30 feet from existing and new structures.

1.14 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

A. Contractor to remove temporary utilities, equipment, facilities, materials, after Final Acceptance inspection.

B. Remove underground installations to a minimum depth of 2 feet. Grade site as indicated.

C. Clean and repair damage caused by installation or use of temporary work.

D. Restore new permanent facilities used during construction to specified condition.

PART 2 – PRODUCTS (NOT APPLICABLE) PART 3 –

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XECUTION (NOT APPLICABLE)

END OF SECTION 01500

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SECTION 01510 - TEMPORARY UTILITIES

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Temporary Utilities: Electricity, lighting, heat, ventilation, and water.

1.02 RELATED SECTIONS

A. Section 01500 - Temporary Facilities and Controls:
   1. Temporary telecommunications services for administrative purposes.
   2. Temporary sanitary facilities required by law.

1.03 TEMPORARY ELECTRICITY

A. Cost: By Contractor

B. Provided By: Contractor

C. Provide power service required from utility source.

D. Provide power outlets for construction operations, with branch wiring and distribution boxes located at each floor. Provide flexible power cords as required.

E. Provide main service disconnect and over-current protection at convenient location and meter.

F. Permanent convenience receptacles may be utilized during construction.

G. Provide adequate distribution equipment, wiring, and outlets to provide single phase branch circuits for power and lighting.
   1. Provide 20 ampere duplex outlets, single phase circuits for power tools
   2. Provide 20 ampere, single phase branch circuits for lighting.

1.04 TEMPORARY LIGHTING FOR CONSTRUCTION PURPOSES

A. Contractor to provide and maintain incandescent lighting for construction operations to achieve a minimum lighting level of 2 watt/sq ft.

B. Provide and maintain 1 watt/sq ft lighting to exterior staging and storage areas after dark for security purposes.

C. Provide and maintain 0.25 watt/sq ft H.I.D. lighting to interior work areas after dark for security purposes.

D. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps as required.

E. Maintain lighting and provide routine repairs.

F. Permanent building lighting may be utilized during construction.

1.05 TEMPORARY HEATING

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A. Cost of Energy: By Contractor

B. Provided by: Contractor

C. Provide heating devices and heat as needed to maintain specified conditions for construction operations.

D. Maintain minimum ambient temperature of 50 degrees F in areas where construction is in progress, unless indicated otherwise in specifications.

E. Prior to operation of permanent equipment for temporary heating purposes, verify that installation is approved for operation, equipment is lubricated and filters are in place. Provide and pay for operation, maintenance, and regular replacement of filters and worn or consumed parts.

1.06 TEMPORARY COOLING

A. Cost of Energy: By Contractor

B. Provided by: Contractor

C. Provide cooling devices and cooling as needed to maintain specified conditions for construction operations.

D. Maintain maximum ambient temperature of 80 degrees F in areas where construction is in progress, unless indicated otherwise in specifications.

E. Prior to operation of permanent equipment for temporary cooling purposes, verify that installation is approved for operation, equipment is lubricated and filters are in place. Provide and pay for operation, maintenance, and regular replacement of filters and worn or consumed parts.

1.07 TEMPORARY WATER SERVICE

A. Cost of Water Used: By Contractor

B. Provided by: Contractor

C. Provide and maintain suitable quality water service for construction operations at time of project mobilization.

D. Extend branch piping with outlets located so water is available by hoses with threaded connections. Provide temporary pipe insulation to prevent freezing.

PART 2 – PRODUCTS (NOT APPLICABLE) PART 3 –

EXECUTION (NOT APPLICABLE)

END OF SECTION 01510

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SECTION 01550 - VEHICULAR ACCESS AND PARKING

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Access roads.

B. Parking.

C. Permanent pavements and parking facilities.

D. Construction parking controls.

E. Flag persons.

F. Flares and lights.

G. Haul routes.

H. Traffic signs and signals.

I. Maintenance.

J. Removal, repair.

K. Mud from site vehicles.

1.02 RELATED SECTIONS

A. Section 01100 – Summary of Work: access to site, work sequence, and occupancy.

B. Section 02310 – Earthwork and Site Grading: Specifications for earthwork and paving bases.

PART 2 – PRODUCTS

2.01 MATERIALS

A. Temporary Construction: By Contractor.

B. Materials for Permanent Construction: As specified in product specification sections, including earthwork, paving base, and topping.

2.02 SIGNS, SIGNALS, AND DEVICES

A. Post Mounted and Wall Mounted Traffic Control and Informational Signs: Specified in Section 01585.

B. Traffic Cones and Drums, Flares and Lights: As approved by local jurisdictions.

C. Flag Person Equipment: As required by local

jurisdictions. **PART 3 – EXECUTION**

3.01 PREPARATION

A. Clear areas, provide surface and storm drainage of road, parking,

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area premises, and adjacent areas.

3.02 ACCESS ROADS

A. Use of designated existing on-site streets and driveways for construction traffic is permitted.

B. Tracked vehicles not allowed on paved areas.

C. Construct new temporary all-weather access roads from public thoroughfares to serve construction area, of a width and load bearing capacity to provide unimpeded traffic for construction purposes.

D. Construct temporary bridges and culverts to span low areas and allow unimpeded drainage.

E. Extend and relocate as Work progress requires, provide detours as necessary for unimpeded traffic flow.

F. Provide unimpeded access for emergency vehicles. Maintain 20 foot width driveways with turning space between and around combustible materials.

G. Provide and maintain access to fire hydrants free of obstructions.

3.03 PARKING

A. Use of new parking facilities by construction personnel is not permitted.

B. Do not allow heavy vehicles or construction equipment in parking areas.

C. Arrange for temporary parking areas to accommodate use of construction personnel.

D. When site space is not adequate, provide additional off-site parking.

3.04 NEW PERMANENT PAVEMENTS

A. Prior to Substantial Completion the base for permanent roads and parking areas may be used for construction traffic.

B. Avoid traffic loading beyond paving design capacity. Tracked vehicles not allowed.

3.05 CONSTRUCTION PARKING CONTROL (GRAVEL PARKING AREA)

A. Control vehicular parking to prevent interference with public traffic and parking, access by emergency vehicles, and Owner's operations.

B. Monitor parking of construction personnel's vehicles in existing facilities. Maintain vehicular access to and through parking areas.

C. Prevent parking on or adjacent to access roads or in non-designated areas.

3.06 FLAG PERSONS

A. Provide trained and equipped flag persons to regulate traffic when construction operations or traffic encroach on public traffic lanes.

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3.07 FLARES AND LIGHTS

A. Use flares and lights during hours of low visibility to delineate traffic lanes and to guide traffic.

3.08 HAUL ROUTES

A. Consult with authority having jurisdiction, establish public thoroughfares

to be used for haul routes and site access.

B. Confine construction traffic to designated haul routes.

C. Provide traffic control at critical areas of haul routes to regulate traffic, to minimize interference with public traffic.

3.09 TRAFFIC SIGNS AND SIGNALS

A. At approaches to site and on site, install at crossroads, detours, parking areas, and elsewhere as needed to direct construction and affected public traffic.

3.10 MAINTENANCE

A. Maintain traffic and parking areas in a sound condition free of excavated material, construction equipment, Products, mud, snow, and ice.

B. Maintain existing paved areas used for construction; promptly repair breaks, potholes, low areas, standing water, and other deficiencies, to maintain paving and drainage in original, or specified, condition.

3.11 REMOVAL, REPAIR

A. Remove temporary roads when permanent paving is usable.

B. Remove underground work and compacted materials to a depth of 2 feet; fill and grade site as specified.

C. Repair existing facilities damaged by use, to original condition.

D. Remove equipment and devices when no longer required.

E. Repair damage caused by installation.

F. Remove post settings to a depth of 2 feet.

3.12 MUD FROM SITE VEHICLES

A. Provide means of removing mud from vehicle wheels before entering streets.

END OF SECTION 01550

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SECTION 01565 - SECURITY MEASURES

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Security measures including formal security program, entry control, personnel identification, guard service, and miscellaneous restrictions.

1.02 RELATED SECTIONS

A. Section 01100 – Summary of Work: use of premises and occupancy.

B. Section 01500 - Temporary Facilities and Controls: Temporary lighting.

1.03 SECURITY PROGRAM

A. Protect Work and Owner's operations from theft, vandalism, and unauthorized entry.

B. Initiate program at project mobilization.

C. Maintain program throughout construction period until Owner occupancy.

1.04 ENTRY CONTROL

A. Restrict entrance of persons and vehicles into Project site.

B. Allow entrance only to authorized persons with proper identification.

C. Maintain log of workers and visitors, make available to Owner/Architect on request.

D. Contractor to provide six (6) foot tall fence around entire perimeter of construction site with double gate sized to permit construction traffic located at the termination of Construction Site Entrance. Architect will advise as to exact location of control fence.

1.05 RESTRICTIONS

A. Do not allow cameras on site or photographs taken except by written approval of Owner/Architect.

B. Do no work on Sundays.

PART 2 – PRODUCTS (NOT APPLICABLE)

PART 3 – EXECUTION (NOT APPLICABLE)

END OF SECTION 01565

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SECTION 01585 - PROJECT SIGNS

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Project signs provided by General Contractor.

1.02 RELATED SECTIONS

A. Section 01100 – Summary of Work: Responsibility to provide signs.

1.03 REFERENCES

A. FHWA (SHS) - Standard Highway Signs; Federal Highway Administration, U.S. Department of Transportation; 2004.

1.04 QUALITY ASSURANCE

A. Design sign and structure to withstand 50 miles/hr wind velocity.

B. Sign Painter: Experienced as a professional sign painter for minimum three years.

C. Finishes, Painting: Adequate to withstand weathering, fading, and chipping for duration of construction.

1.05 SUBMITTALS

A. See Section 01300 - Administrative Requirements for submittal procedures.

B. Shop Drawing: Show content, layout, lettering, color, foundation, structure, sizes and grades of members.

PART 2 – PRODUCTS

2.01 SIGN MATERIALS

A. Structure and Framing: New, wood, structurally adequate.

B. Sign Surfaces: Exterior grade plywood with medium density overlay, minimum 3/4 inch thick, standard large sizes to minimize joints.

C. Rough Hardware: Galvanized.

D. Paint and Primers: Exterior quality, two coats; sign background of color as chosen by Mc3lroy Architecture, PLLC.

E. Lettering: Exterior quality paint, contrasting colors.

2.02 PROJECT IDENTIFICATION SIGN

A. One painted sign, 32 sq ft area, and bottom four (4) feet above ground.

B. Content:

1. Project number, title, logo, project 3d image and name of Owner as indicated on Contract Document

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2. Names and titles of authorities.
3. Names and titles of Professionals.
4. Name of Prime and major Subcontractors.

C. Graphic Design, Colors, Style of Lettering: Designated by Mc3lroy Architecture, PLLC.

D. Lettering: Designated by Mc3lroy Architecture, PLLC.

2.03 PROJECT INFORMATIONAL SIGNS

A. Painted informational signs of same colors and lettering as Project Identification sign, or standard products; size lettering to provide legibility at 100 foot distance.

B. Provide at each field office, storage shed, and directional signs to direct traffic into and within site. Relocate as Work progress requires.

C. Provide municipal traffic agency directional traffic signs to and within site.

PART 3 – EXECUTION

3.01 INSTALLATION

A. Install project identification sign within 15 days after date fixed by Notice to Proceed.

B. Erect at location of high public visibility adjacent to main entrance to site.

C. Erect supports and framing on secure foundation, rigidly braced and framed to resist wind loadings.

D. Install sign surface plumb and level, with butt joints. Anchor securely.

E. Paint exposed surfaces of sign, supports, and framing.

3.02 MAINTENANCE

A. Maintain signs and supports clean, repair deterioration and damage.

3.03 REMOVAL

A. Remove signs, framing, supports, and foundations at completion of Project and restore the area.

END OF SECTION 01585

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SECTION 01600 - PRODUCT REQUIREMENTS

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. General product requirements.

B. Transportation, handling, storage and protection.

C. Product option requirements.

D. Substitution limitations and procedures.

E. Spare parts and maintenance materials.

1.02 RELATED SECTIONS

A. Document 00200 - Instructions to Bidders: Product options and substitution procedures prior to bid date.

B. Section 01100 – Summary of Work: Lists of products to be removed from existing building.

C. Section 01400 - Quality Requirements: Product quality monitoring.

D. Section 01732 - Waste Management: Waste disposal requirements potentially affecting packaging and substitutions.

1.03 REFERENCES

A. 16 CFR 260 - Guides for the Use of Environmental Marketing Claims; Federal Trade Commission; current edition.

B. CAN/CSA Z809 - National Standard for Sustainable Forest Management; CSA International Inc.; 2002.

C. GreenSeal GS-36 - Commercial Adhesives; Green Seal, Inc.; 2000.

D. NFPA 70 - National Electrical Code; National Fire Protection Association; 2008.

E. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; current edition; www.aqmd.gov.

1.04 SUBMITTALS

A. Proposed Products List: Submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
   1. Submit within 15 days after date of Agreement.
   2. For products specified only by reference standards, list applicable reference standards.

B. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.

C. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and

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location of utility outlets for service for functional equipment and appliances.

D. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
   1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

PART 2 – PRODUCTS

2.01 NEW PRODUCTS

A. Provide new products unless specifically required or permitted by the Contract Documents.

B. Do not use products having any of the following characteristics:
   1. Made outside the United States, its territories, Canada, or Mexico.
   2. Made using or containing CFC's or HCFC's.

C. Where all other criteria are met, shall give preference to products that:
   1. Are extracted, harvested, and/or manufactured closer to the location of the project.
   2. Have longer documented life span under normal use.
   3. Result in less construction waste.
   4. Are made of vegetable materials that are rapidly renewable.

D. Sustainably Harvested Wood:
   1. Definition: Wood-based materials include but are not limited to structural framing, dimension lumber, flooring, wood doors, finishes, and furnishings that are permanently installed in the project. Wood and wood-based products not permanently installed in the project are not included in the definition.
   2. Specific Wood-Based Fabrications: Fabricate of sustainably harvested wood when so specified elsewhere.
   3. Certification: Provide wood certified or labeled by an organization accredited by one of the following:
      a. The Forest Stewardship Council, The Principles for Natural Forest Management; for Canada visit http://www.fsccanada.org, for the USA visit http://www.fscus.org.

E. Urea-Formaldehyde Prohibition:
   1. Overall Project Requirement: Provide composite wood and agrifiber products having no added urea-formaldehyde resins.
      a. Require each installer to certify compliance and submit product data showing product content.
   2. Specific Product Categories: Comply with limitations specified elsewhere.

F. Adhesives and Joint Sealants:
   1. Definition: This provision applies to gunnable, trowelable, and liquid-applied adhesives, sealants, and sealant primers used anywhere on the interior of the building inside the weather barrier, including duct sealers.
   2. Provide only products having lower volatile organic

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compound (VOC) content than required by South Coast Air Quality

Management District Rule No.1168.

a. Require each installer to certify compliance and submit product data showing product content.

3. Specific Product Categories: Comply with limitations specified elsewhere.

G. Aerosol Adhesives:

1. Provide only products having lower volatile organic compound (VOC) content than required by GreenSeal GS-36.
   a. Require each installer to certify compliance and submit product data showing product content.
2. Specific Product Categories: Comply with limitations specified elsewhere.

H. Provide interchangeable components of the same manufacture for components being replaced.

I. Motors: Refer to Section 15065, NEMA MG 1 Type. Specific motor type is specified in individual specification sections.

J. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Size terminal lugs to NFPA 70, include lugs for terminal box.

K. Cord and Plug: Provide minimum 6 foot cord and plug including grounding connector for connection to electric wiring system. Cord of longer length is specified in individual specification sections.

2.02 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.

B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, Submit a request for substitution for any manufacturer not named after award of contract.

2.03 SPARE PARTS AND MAINTENANCE PRODUCTS

A. Provide spare parts, maintenance, and extra products of types and in quantities specified in individual specification sections.

B. Deliver to Project site; obtain receipt prior to final payment.

PART 3 – EXECUTION

3.01 SUBSTITUTION PROCEDURES

A. Substitution of products is permitted during the bidding process. If products are not directly specified bidders may submit request for clarification.

B. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.

C. A request for substitution constitutes a representation that the submitter:

1. Has investigated proposed product and determined that it meets

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or exceeds the quality level of the specified product.

2. Will provide the same warranty for the substitution as for the specified product.
3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
4. Waives claims for additional costs or time extension that may subsequently become apparent.

D. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.

E. Substitution Submittal Procedure:
1. Submit three copies of request for substitution for consideration. Limit each request to one proposed substitution.
2. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence. Burden of proof is on proposer.
3. The Mc3lroy Architecture, PLLC. will notify in writing of decision to accept or reject request.

3.02 TRANSPORTATION AND HANDLING

A. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.

B. Transport and handle products in accordance with manufacturer's instructions.

C. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.

D. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.

E. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.

F. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.03 STORAGE AND PROTECTION

A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.

B. Store and protect products in accordance with manufacturers' instructions.

C. Store with seals and labels intact and legible.

D. Store sensitive products in weather tight, climate controlled, enclosures in an environment favorable to product.

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E. r exterior storage of fabricated products, place on sloped supports above ground.

F. Provide bonded off-site storage and protection when site does not permit on-site storage or protection.

G. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.

H. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.

I. Prevent contact with material that may cause corrosion, discoloration, or staining.

J. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.

K. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION 01600

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SECTION 01700 - EXECUTION REQUIREMENTS

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Examination, preparation, and general installation procedures.

B. Pre-installation meetings.

C. Cutting and patching.

D. Surveying for laying out the work.

E. Cleaning and protection.

F. Starting of systems and equipment.

G. Demonstration and instruction of Owner personnel.

H. Closeout procedures, except payment procedures.

1.02 RELATED SECTIONS

A. Section 01100 – Summary of Work: Limitations on working in existing building; continued occupancy; work sequence; identification of salvaged and relocated materials.

B. Section 01300 - Administrative Requirements: Submittals procedures.

C. Section 01400 - Quality Requirements: Testing and inspection procedures.

D. Section 01500 - Temporary Facilities and Controls: Temporary exterior enclosures.

E. Section 01500 - Temporary Facilities and Controls: Temporary interior partitions.

F. Section 01510 - Temporary Utilities: Temporary heating, cooling, and ventilating facilities.

G. Section 01575 - Temporary Erosion and Sedimentation Control: Additional erosion and sedimentation control requirements.

H. Section 01732 - Waste Management: Additional procedures for trash/waste removal, recycling, salvage, and reuse.

I. Section 01780 - Closeout Submittals: Project record documents, operation and maintenance data, warranties and bonds.

J. Section 07840 - Firestopping.

K. Individual Product Specification Sections:
   1. Advance notification to other sections of openings required in work of those sections.

1.03 SUBMITTALS

A. See Section 01300 - Administrative Requirements, for submittal procedures.

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B. Survey work: Submit name, address, and telephone number of Surveyor before starting survey work.
   1. On request, submit documentation verifying accuracy of survey work.
   2. Submit a copy of site drawing signed by the Land Surveyor, that the elevations and locations of the work are in conformance with Contract Documents.
   3. Submit surveys and survey logs for the project record.

C. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
   1. Structural integrity of any element of Project.
   2. Integrity of weather exposed or moisture resistant element.
   3. Efficiency, maintenance, or safety of any operational element.
   4. Visual qualities of sight exposed elements.
   5. Work of Owner or separate Contractor.
   6. Include in request:
      a. Identification of Project.
      b. Location and description of affected work.
      c. Necessity for cutting or alteration.
      d. Description of proposed work and products to be used.
      e. Alternatives to cutting and patching.
      f. Effect on work of Owner or separate Contractor.
      g. Written permission of affected separate Contractor.
      h. Date and time work will be executed.

D. Project Record Documents: Accurately record actual locations of capped and active utilities.

1.04 QUALIFICATIONS

A. For survey work, employ a land surveyor registered in Louisiana and acceptable to M3A Architecture, PLLC. Submit evidence of Surveyor's Errors and Omissions insurance coverage in the form of an Insurance Certificate.

1.05 PROJECT CONDITIONS

A. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment.

B. Protect site from puddling or running water. Provide water barriers as required to protect site from soil erosion.

C. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.

D. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere.

E. Erosion and Sediment Control: Plan and execute work by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas. Prevent erosion and sedimentation.
   1. Minimize amount of bare soil exposed at one time.
   2. Provide temporary measures such as berms, dikes, and drains,

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to prevent water flow.

3. Construct fill and waste areas by selective placement to avoid erosive surface silts or clays.
4. Periodically inspect earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures.

F. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations.

G. Pest Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.

H. Rodent Control: Provide methods, means, and facilities to prevent rodents from accessing or invading premises.

I. Pollution Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations.

1.06 COORDINATION

A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.

B. Notify affected utility companies and comply with their requirements.

C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.

D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.

F. Coordinate completion and clean-up of work of separate sections.

G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2 – PRODUCTS

2.01 PATCHING MATERIALS

A. New Materials: As specified in product sections; match existing products and work for patching and extending work.

B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a

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standard.

Product Substitution: For any proposed change in materials,

A. submit request for substitution described in Section 01600.

PART 3 – EXECUTION

3.01 EXAMINATION

A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.

B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.

C. Examine and verify specific conditions described in individual specification sections.

D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.

E. Verify that utility services are available, of the correct characteristics, and in the correct locations.

F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

A. Clean substrate surfaces prior to applying next material or substance.

B. Seal cracks or openings of substrate prior to applying next material or substance.

C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.03 PREINSTALLATION MEETINGS

A. When required in individual specification sections, convene a pre-installation meeting at the site prior to commencing work of the section.

B. Require attendance of parties directly affecting, or affected by, work of the specific section.

C. Notify M3A Architecture, PLLC. four days in advance of meeting date.

D. Prepare agenda and preside at meeting:
   1. Review conditions of examination, preparation and installation procedures.
   2. Review coordination with related work.

E. Record minutes and distribute copies within two days after meeting to participants, with two copies to M3A Architecture, PLLC., Owner,

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participants, and those affected by decisions made.

3.04 LAYING OUT THE WORK

A. Verify locations of survey control points as initially established by Owner prior to starting work.

B. Promptly notify M3A Architecture, PLLC. of any discrepancies discovered.

C. Control datum for survey is that indicated on Drawings.

D. Protect survey control points prior to starting site work; preserve permanent reference points during construction. All trades to maintain and replace if disturbed.

E. Promptly report to M3A Architecture, PLLC. the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.

F. All traded are to replace dislocated survey control points based on original survey control. Make no changes without prior written notice to M3A Architecture, PLLC..

G. Utilize recognized engineering survey practices.

H. Owner will establish a minimum of two permanent bench marks on site, referenced to established control points. Record locations, with horizontal and vertical data, on project record documents.

I. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:
   1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations.
   2. Grid or axis for structures.
   3. Building foundation, column locations, and ground floor elevations.

J. Periodically verify layouts by same means.

K. Maintain a complete and accurate log of control and survey work as it progresses.

L. On completion of foundation walls and major site improvements, prepare a certified survey illustrating dimensions, locations, angles, and elevations of construction and site work.

3.05 GENERAL INSTALLATION REQUIREMENTS

A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.

B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.

C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.

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D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.

E. Make neat transitions between different surfaces, maintaining texture and appearance.

3.06 CUTTING AND PATCHING

Execute cutting and patching including excavation and fill to complete the work, to uncover work in order to install improperly sequenced work,

A. to remove and replace defective or non-conforming work, to remove samples

of installed work for testing when requested, to provide openings in the work for penetration of mechanical and electrical work, to execute patching to complement adjacent work, and to fit products together to integrate with other work.

B. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.

C. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.

D. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.

E. Restore work with new products in accordance with requirements of Contract Documents.

F. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.

G. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 07840, to full thickness of the penetrated element.

H. Refinish surfaces to match adjacent finish. For continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.

I. Make neat transitions. Patch work to match adjacent work in texture and appearance. Where new work abuts or aligns with existing, perform a smooth and even transition.

J. Patch or replace surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. Repair substrate prior to patching finish. Finish patches to produce uniform finish and texture over entire area. When finish cannot be matched, refinish entire surface to nearest intersections.

3.07 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

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B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.

C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.

D. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

3.08 PROTECTION OF INSTALLED WORK

A. Protect installed work from damage by construction operations.

B. Provide special protection where specified in individual specification sections.

of installed work for testing when requested, to provide openings in the work for penetration of mechanical and electrical work, to execute patching to complement adjacent work, and to fit products together to integrate with other work.

C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.

D. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.

E. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.

F. Restore work with new products in accordance with requirements of Contract Documents.

G. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.

H. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 07840, to full thickness of the penetrated element.

I. Refinish surfaces to match adjacent finish. For continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.

J. Make neat transitions. Patch work to match adjacent work in texture and appearance. Where new work abuts or aligns with existing, perform a smooth and even transition.

K. Patch or replace surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. Repair substrate prior to patching finish. Finish patches to produce uniform finish and texture over entire area. When finish cannot be matched, refinish entire surface to nearest intersections.

3.09 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish.

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Maintain site in a clean and orderly condition.

B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.

C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.

D. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

3.10 PROTECTION OF INSTALLED WORK

A. Protect installed work from damage by construction operations.

B. Provide special protection where specified in individual specification sections.

C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.

D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.

E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.

F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.

G. Prohibit traffic from landscaped areas.

H. Remove protective coverings when no longer needed; reuse or recycle plastic coverings if possible.

3.11 SYSTEMS STARTUP

A. Coordinate schedule for start-up of various equipment and systems.

B. Notify M3A Architecture, PLLC. and Owner seven days prior to start-up of each item.

C. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.

D. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.

E. Verify that wiring and support components for equipment are complete and tested.

F. Execute start-up under supervision of applicable personnel and manufacturer's representative in accordance with manufacturers' instructions.

G. When specified in individual specification Sections, require manufacturer to provide authorized representative to be present at site to inspect, check, and approve equipment or system installation prior to

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start-up, and to supervise placing equipment or system in operation.

H. Submit a written report that equipment or system has been properly installed and is functioning correctly.

3.10 DEMONSTRATION AND INSTRUCTION

A. See Section 01820 - Demonstration and Training.

3.11 ADJUSTING

A. Adjust operating products and equipment to ensure smooth and unhindered operation.

B. Testing, adjusting, and balancing HVAC systems: See Section 15950.

3.12 FINAL CLEANING

A. Execute final cleaning prior to final project assessment.
B. Use cleaning materials that are nonhazardous.

C. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.

D. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.

E. Clean filters of operating equipment.

F. Clean debris from roofs, gutters, downspouts, and drainage systems.

G. Clean site; sweep paved areas, rake clean landscaped surfaces.

H. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

3.13 CLOSEOUT PROCEDURES

A. Make submittals that are required by governing or other authorities.
1. Provide copies to M3A Architecture, PLLC. and Owner.

B. Accompany Architect on preliminary inspection to determine items to be listed for completion or correction in Contractor's Notice of Substantial Completion.

C. Notify M3A Architecture, PLLC. when work is considered ready for Substantial Completion.

D. Submit written certification that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for M3A Architecture, PLLC.'s review.

E. Correct items of work listed in executed Certificates of Substantial Completion and comply with requirements for access to Owner-occupied areas.

F. Accompany Architect on preliminary final inspection.

G. Notify M3A Architecture, PLLC. when work is considered finally complete.

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H. Complete items of work determined by M3A Architecture, PLLC.'s final inspection.

3.14 MAINTENANCE SERVICE

A. Furnish service and maintenance of components indicated in specification sections for one (1) year from date of Substantial Completion.

B. Examine system components at a frequency consistent with reliable operation. Clean, adjust, and lubricate as required.

C. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by the manufacturer of the original component.

D. Maintenance service shall not be assigned or transferred to any agent or Subcontractor without prior written consent of the Owner.

END OF SECTION 01700

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SECTION 01710 – CLEANING

PART 1 - GENERAL

1.01 DESCRIPTION

A. Work included shown on Drawings and specified below.

1.02 CLEANING DURING CONSTRUCTION

A. **ALL CONTRACTORS** execute cleaning to ensure that building, grounds and public properties are maintained free from accumulating of waste materials and rubbish.

B. Wet down dry materials and rubbish to lay dust and prevent blowing dust.

C. At reasonable intervals during progress of Work, clean site and public properties and dispose of waste materials, debris and rubbish.

D. Contractor to provide on site containers for collection of waste materials, debris and rubbish.

E. Handle materials in a controlled manner with as few handlings as possible. Do not drop or throw materials from heights.

F. Schedule cleaning operations so that dust and other contaminants resulting from cleaning process will not fall on wet or newly painted surfaces.

1.03 FINAL CLEANING

A. Contractor to employ experienced workmen or professional cleaners for final cleaning.

B. In preparation for substantial completion or occupancy conduct final inspection of site exposed exterior surfaces.

C. Remove grease, dust, dirt, stains, labels, finger prints, and other foreign materials from sight exposed interior finished surfaces; polish surfaces so designated to shine finish.

D. Repair, patch and touch up marred surfaces to specified finish to match adjacent surfaces.

E. Owner will assume responsibility for cleaning upon Final Acceptance.

PART 2 – PRODUCTS (NOT APPLICABLE)

PART 3 – EXECUTION (NOT APPLICABLE)

END OF SECTION 01710

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SECTION 01720 - PROJECT RECORD DOCUMENTS

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Work Included: Maintaining and keeping up-to-date submission procedures and requirements for project record documents.

B. Refer to related Work:
1. Section 01600 – Product Requirements
2. Section 01700 - Project Closeout

1.02 MAINTENANCE OF DOCUMENTS

A. Maintain at job site two (2) copies of all:
1. Contract Drawings
2. Project Manual
3. Addenda
4. Change Orders
5. Reviewed Shop Drawings
6. Reviewed Submittals
7. Field and Laboratory Test Records
8. Other modifications to Contract

B. Store record documents apart from documents used for construction. Provide files and racks for storage of documents. File documents in accordance with Project Filing Format of Uniform Construction Index.

C. Maintain documents in clean, dry, legible condition. Do not use Record Documents for construction purposes.

D. Provide availability of Record Documents at all times for inspection by Architect and Owner.

1.03 RECORDING

A. Label each document "Project Record" in 2" high printed letters. Keep Record Documents current. Do not permanently conceal any work until required information has been recorded.

B. Contract Drawings: Legibly mark to record actual construction:
1. Location of internal utilities and appurtenances concealed in construction referenced to visible and accessible features of structure.
2. Field changes of dimensions and details.
3. Changes made by Change Order or Field Order.
4. Details not on original Contract Drawings.

C. Project Manual and Addenda: Legibly mark up each Section to record:
1. Manufacturer, trade name, catalog number and suppliers of each product and item of equipment actually installed.

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2. Changes made by Change Order or Field Order.

3. Other matters not originally specified.

D. Shop Drawings: Maintain as Record Documents legibly marked drawings to record changes made after review.

1.05 SUBMITTAL

A. At completion of project deliver record documents to Architect. Accompany submittal with transmittal letter in duplicate containing:
   1. Date
   2. Project Title and Number
   3. Contractor's Name and Address
   4. Title and number of each Record Document
   5. Certification that each document as submitted is complete and accurate.
   6. Signature of Contractor or his authorized representative.

PART 2 – PRODUCTS (NOT APPLICABLE) PART 3 –

EXECUTION (NOT APPLICABLE)

END OF SECTION 01720

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SECTION 01820 - DEMONSTRATION AND TRAINING

PART 1 – GENERAL

1.01 SUMMARY

A. Demonstration of products and systems where indicated in specific specification sections.

B. Training of Owner personnel in operation and maintenance is required for:
1. All software-operated systems.
2. HVAC systems and equipment.
3. Plumbing equipment.
4. Electrical systems and equipment.
5. Security systems and equipment.
6. Items specified in individual product Sections.

C. Training of Owner personnel in care, cleaning, maintenance, and repair is required for:
1. Roofing, waterproofing, and other weather-exposed or moisture protection products.
2. Finishes, including flooring, wall finishes, ceiling finishes.
3. Fixtures and fittings.
4. Items specified in individual product Sections.

1.02 RELATED SECTIONS

A. Section 01780 - Closeout Submittals: Operation and maintenance manuals.

B. Other Specification Sections: Additional requirements for demonstration and training.

1.03 SUBMITTALS

A. See Section 01300 - Administrative Requirements, for submittal procedures.

B. Training Plan: Owner will designate personnel to be trained; tailor training to needs and skill-level of attendees.
1. Submit to M3A Architecture, PLLC. for transmittal to Owner.
2. Submit not less than four weeks prior to start of training.
3. Revise and resubmit until acceptable.
4. Provide an overall schedule showing all training sessions.
5. Include at least the following for each training session:
   a. Identification, date, time, and duration.
   b. Description of products and/or systems to be covered.
   c. Name of firm and person conducting training; include qualifications.
   d. Intended audience, such as job description.
   e. Objectives of training and suggested methods of ensuring adequate training.
   f. Methods to be used, such as classroom lecture, live demonstrations, hands-on, etc.
   g. Media to be used, such a slides, hand-outs, etc.
   h. Training equipment required, such as projector, projection

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screen, etc., to be provided by.

C. Training Manuals: Provide training manual for each attendee; allow for minimum of two attendees per training session.
   1. Include applicable portion of O&M manuals.
   2. Include copies of all hand-outs, slides, overheads, video presentations, etc., that are not included in O&M manuals.
   3. Provide one extra copy of each training manual to be included with operation and maintenance data.

D. Video Recordings: Submit digital video recording of each demonstration and training session for Owner's subsequent use.
   1. Format: DVD Disc.
   2. Label each disc and container with session identification and date.

1.04 QUALITY ASSURANCE

A. Instructor Qualifications: Familiar with design, operation, maintenance and troubleshooting of the relevant products and systems.
   1. Provide as instructors the most qualified trainer of those contractors and/or installers who actually supplied and installed the systems and equipment.
   2. Where a single person is not familiar with all aspects, provide specialists with necessary qualifications.

PART 2 – PRODUCTS (NOT APPLICABLE) PART 3 –

EXECUTION

3.01 DEMONSTRATION - GENERAL

A. Demonstrations conducted during system start-up do not qualify as demonstrations for the purposes of this section, unless approved in advance by Owner.

B. Demonstration may be combined with Owner personnel training if applicable.

C. Operating Equipment and Systems: Demonstrate operation in all modes, including start-up, shut-down, seasonal changeover, emergency conditions, and troubleshooting, and maintenance procedures, including scheduled and preventive maintenance.
   1. Perform demonstrations not less than two weeks prior to Substantial Completion.
   2. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.

D. Non-Operating Products: Demonstrate cleaning, scheduled and preventive maintenance, and repair procedures.
   1. Perform demonstrations not less than two weeks prior to Substantial Completion.

3.02 TRAINING - GENERAL

A. Conduct training on-site unless otherwise indicated.

B. Owner will provide classroom and seating at no cost to.

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C. Provide training in minimum two hour segments.

D. Training schedule will be subject to availability of Owner's personnel to be trained; re-schedule training sessions as required by Owner; once schedule has been approved by Owner failure to conduct sessions according to schedule will be cause for Owner to charge for personnel "show-up" time.

E. Review of Facility Policy on Operation and Maintenance Data:
During training discuss:
1. The location of the O&M manuals and procedures for use and preservation; backup copies.
2. Typical contents and organization of all manuals, including explanatory information, system narratives, and product specific information.
3. Typical uses of the O&M manuals.

F. Product- and System-Specific Training:
1. Review the applicable O&M manuals.
2. For systems, provide an overview of system operation, design parameters and constraints, and operational strategies.
3. Review instructions for proper operation in all modes, including start-up, shut-down, seasonal changeover and emergency procedures, and for maintenance, including preventative maintenance.
4. Provide hands-on training on all operational modes possible and preventive maintenance.
5. Emphasize safe and proper operating requirements; discuss relevant health and safety issues and emergency procedures.
6. Discuss common troubleshooting problems and solutions.
7. Discuss any peculiarities of equipment installation or operation.
8. Discuss warranties and guarantees, including procedures necessary to avoid voiding coverage.
9. Review recommended tools and spare parts inventory suggestions of manufacturers.
10. Review spare parts and tools required to be furnished by.
11. Review spare parts suppliers and sources and procurement procedures.

G. Be prepared to answer questions raised by training attendees; if unable to answer during training session, provide written response within three days.

END OF SECTION 01820

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Section 02 41 13 - Selective Site Demolition

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Removal of paving, surface debris, paving, curbs, designated plant life, grass, existing structures.
   2. Removal of topsoil and subsoil, rough grading, and site contouring.

B. Section Includes:
   1. 31 05 13 Earthwork

1.02 DEFINITIONS

A. Caliper - plant size measurement, diameter of a plant trunk measured six in (15 cm) above grade (used only on plants six in (15 cm) caliper or less).

B. Diameter Breast Height (DBH) - plant size measurement, diameter of a plant trunk measured at 4'-6" (1.37 m) above the ground (used only on plants over six in (15 cm) caliper).

C. Clearing - the felling, trimming, and cutting of trees into sections and the satisfactory disposal of the trees and other vegetation designated for removal, including down timber, snags, brush, and rubbish occurring in the areas to be cleared.

D. Grubbing - the removal and disposal of stumps, roots larger than 3 in (75 mm) in diameter, and matted roots from the designated grubbing areas.

E. Trees - The line of demarcation between brush and trees, for the purpose of distinguishing clearing requirements, is that trees, are woody growth over 2 in (5 cm) caliper.

F. Salable Timber - All felled timber which can produce saw logs, pulpwood, posts, poles, ties, mine props, or cordwood is salable timber.

G. Structures - buildings or building portions, walls, silos, storm or root cellars, cisterns, wells, windmills, pit silos, water towers, etc. Remove structures or fill to the ground surface, as directed.

1.03 SUBMITTALS

A. Submit in sufficient detail to show full compliance.

B. Work Plan: Describe demolition, removal procedures, sequence, and schedule.

1.04 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Conform to local codes and regulations for disposal of debris. Burning debris is **PROHIBITED.**

B. Inspections, Permits, And Fees:
   1. Contractor:
      a. Obtain and pay for all required permits, and inspections in connection with this work under the Contract.
      b. Deliver to the Owner a copy of each certificate of approval from each inspection agency.

1.05 PROJECT/SITE CONDITIONS

A. Existing Conditions: Verify with the Owner's Representative any special conditions of existing site and grounds.

PART 2 - PRODUCTS (Not Used) PART 3 -

EXECUTION

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3.01 PREPARATION

A. Protection:
   1. Provide, erect, and maintain temporary barriers and security devices.
   2. Notify adjacent owners of work which may affect their property, potential noise, utility outage, or disruption. Coordinate with owner.
   3. Protect utilities from damage.
   4. Protect trees, plant growth, and features designated to remain, as final landscaping. Identify and tag.
   5. Prevent movement or settlement of adjacent structures. Provide bracing and shoring.
   6. Protect existing landscaping materials and structures which are not to be demolished.

B. Surface Preparation:
   1. Verify that survey benchmark and intended elevations for the Work are as indicated.
   2. Identify and locate utilities.

3.02 CLEARING

A. Clear areas required for access to site and execution of Work as indicated on demolition plan.
B. Cut off trees, stumps, roots, brush, and other vegetation in areas to be cleared flush with or below the original ground surface, except such trees and vegetation indicated or directed to be left standing.
C. Remove trees and shrubs within marked areas. Remove stumps, including main root ball and root system,
D. Trim trees designated to be left standing within the cleared areas of dead branches 1-1/2 in (4 cm) or more in diameter and trim of all branches below the heights indicated or directed. Neatly cut limbs and branches to be trimmed close to the bole of the tree or main branches. Paint cuts more than 1-1/2 in (4 cm) in diameter with an approved tree-wound paint.
E. Protect trees and vegetation to be left standing from damage from to clearing, grubbing, and construction operations.
F. Clearing shall also include the removal and disposal of structures that obtrude, encroach upon, or otherwise obstruct the work.

3.03 GRUBBING

A. Remove material to be grubbed, together with logs and other organic or metallic debris not suitable for foundation purposes, to a depth of not less than 18 in (45 cm) below the original surface level of the ground in areas indicated to be grubbed and in areas indicated as construction areas (i.e. areas for buildings, and areas to be paved).
B. Fill depressions made by grubbing with suitable material and compact to make the surface conform with the original adjacent surface of the ground.

3.04 DEMOLITION REQUIREMENTS

A. Conduct demolition to minimize interference with adjacent structures.
B. Conduct operations with minimum interference to public or private accesses.
C. Always maintain Protected egress and access. Do not close or obstruct sidewalks without permits.
D. Cease operations immediately if adjacent structures appear to be in danger. Notify Owner's Representative and Owner.

3.05 SITE/BUILDING DEMOLITION

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A. Remove paving, and curbs.
B. Disconnect and cap designated utilities.
C. Demolish structures indicated in an orderly and careful manner.

D. Remove foundations to a minimum two feet below finished grade.
E. Remove concrete slabs on grade.
F. Backfill holes caused because of demolition. Use topsoil and subsoil fill specified in Section 02300.

3.06 CLEANING

A. Remove demolished materials from site as work progresses.
B. Leave areas of work in clean condition.

END OF SECTION 02 41 13

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SECTION 16010 – BASIC ELECTRICAL REQUIREMENTS

PART 1 - GENERAL

1.01 SCOPE

A. The scope of work is as indicated on electrical drawings and includes but is not limited to the following:

B. Demolition:
1. Prior to commencement of demolition, the contractor shall conduct a thorough site survey to verify existing electrical systems and identify equipment or devices designated to remain. Protect all active systems and devices scheduled to remain in place throughout demolition activities.
2. Disconnect and remove all interior lighting fixtures and associated controls where indicated on plans.
3. All existing and newly abandoned electrical conduit, wiring, devices, equipment, and associated components not designated to remain or be reused shall be completely removed from the project. At the completion of the project, no abandoned electrical materials or equipment shall remain concealed or exposed within the building or site. All removed items shall be disposed of legally and in accordance with environmental regulations. Existing raceways or boxes passing through active areas shall be removed back to their point of origin or capped and clearly identified where removal is impractical, subject to Engineer's approval.

C. Lighting/Power:
1. Provide interior light fixtures and associated branch circuits.
2. Disconnect remove and replace existing house lighting over stands.
3. Disconnect remove and replace existing athletic lighting with new MUSCO (or approved equal) arena lighting product. System shall be RGBW compatible and include a minimum of 2 motorized color changing heads (gold, white, & red minimum).
4. Provide power and network connections as indicated on plans for athletic lighting control system.

1.02 GENERAL CONDITIONS

A. The General Conditions and Supplementary General Conditions are a part of this section of these Specifications. The Contractor is cautioned to read and be thoroughly familiar with all provisions of the General Conditions. These conditions shall be complied with in every aspect.

1.03 DEFINITIONS:

A. The word "shall" where used, is to be understood, as mandatory and the word "should" as advisory. "May" is used in the permissive sense.

B. Concealed: Concealed areas are those areas that cannot be seen by building occupants.

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C. Exposed: Exposed areas are all areas that are exposed to view by building occupants, including areas below counter tops, inside cabinets and closets, inside all equipment rooms, and areas outside the building exterior envelope.

D. Feeder: Feeder consists of both conduit and wiring installed above or below grade

E. Provide: Provide shall including furnishing, installing, and connecting the item or items referenced unless specifically indicated otherwise.

1.04 QUALITY ASSURANCE

A. General:
1. Every effort has been made by the Engineer to clearly indicate all devices/equipment requiring an electrical/data connection. It is the intent of the Engineer that all light fixtures be powered and controlled, that all devices and equipment be circuited to a panelboard of appropriate voltage and breaker of MOCP not exceeding manufacturer's specifications. That all communications, security, and fire alarm devices are installed, wiring, and functioning properly.
2. Where there is a conflict between the contract document and an applicable Code. The Code shall govern except where the requirements of the contract documents are more stringent. The most stringent requirement shall apply.
3. All work shall be concealed unless specifically noted to be exposed.
4. Coordinate the exact locations of electrical outlets and equipment with building features and equipment as indicated on architectural, structural, mechanical, plumbing, landscape, and food service drawings. Review any/all proposed changes in electrical device/equipment locations with Architect prior to rough-in. Architect may direct relocation of outlets before rough-in, up to ten (10) feet from the position indicated, without additional cost. Remove and relocate outlets placed in unsuitable locations when requested by the Architect, at no additional cost.
5. Resolve, in writing, any code violation discovered in contract documents with the Engineer prior to bidding. After award of the contract, Contactor shall make any correction or addition necessary for compliance with applicable codes at no additional cost.

B. An approved contractor for the work under this division shall be:
1. A licensed electrical contractor in the jurisdiction in which the work shall be performed.
2. Able to furnish evidence of having contracted for and installed not less than three (3) systems of comparable size and type that have served their Owners satisfactorily for no less than three (3) years.

C. All work, materials and equipment shall comply with the latest applicable codes, local ordinances, and UL requirements.

D. Provide new products of manufacturers regularly engaged in production of such equipment. Provide the manufacturer's latest standard design for the

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type product specified. All new products shall be listed for the use shown on drawings.

E. Equipment shall be delivered with a factory-applied finish so that no additional field painting is required.

F. Equipment shall be selected to conform the building space limitations. Do not provide equipment that cannot meet the arrangement requirements shown on plans. Contractor shall submit room layouts with submitted items shown drawn to scale. Submittals will be rejected without floor plan Drawings showing submitted items.

G. All equipment included in the service and distribution specifications shall be provided by the same manufacturer.

H. Manufacturer names and model numbers are subject to change. Contractor shall verify them with manufacturer's representative prior to ordering any product or equipment.

1.05 GENERAL REQUIREMENTS

A. The Contractor is referred to all of the Drawings for building construction as well as the electrical Drawings.

B. The Contractor shall examine the site and shall verify to his own satisfaction the location of all utilities, and shall adequately inform himself as to their relation to his work before entering into a Contract and he shall base his bid on any conditions, which may be encountered during the progress of the work.

C. The Contractor shall furnish and install properly all materials, devices, equipment, supports, controls, appurtenances, etc., mentioned or required to make complete or satisfactory installations in working order whether shown or not. All electrical equipment shall be connected in accordance with manufacturer's instructions. All work shall be executed in a workmanlike manner and shall present a neat and mechanical appearance when completed.

D. The Contractor shall provide finished to match approved samples; all exposed finishes shall be approved by the Architect. Submit color samples as required.

1.06 APPLICABLE GENERAL CODES AND REGULATIONS

A. All electrical work and equipment, in whole or in part, shall conform to the applicable portions of the following specifications, codes and regulations in effect on that date of invitation for bids, and shall form a part of this specification.

B. The latest published edition of a reference shall be applicable to this Project unless identified by a specific edition.

C. All reference amendments adopted prior to the effective date of this Contract shall be applicable to this Project.

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1. NFPA 70, National Electrical Code
2. National Fire Codes:
   a. NFPA 70E, Electrical Safety Requirements for Employee Workplaces
   b. NFPA 72, National Fire Alarm Code
   c. NFPA 77, Static Electricity
   d. NFPA 101, Life Safety Code
   e. NFPA 110, Emergency and Standby Power Systems
3. Occupational Safety and Health Regulations (OSHA).
4. NFPA Standards in effect shall be as listed or adopted by the appropriate authority having jurisdiction.
5. American National Standards Institute (ANSI)
6. Institute of Electrical and Electronics Engineers (IEEE)
7. Local, City and State Codes and Ordinances
8. Regulations and standards of the Electric Utility Company
9. National Electrical Safety Code (NESC)
10. National Electrical Manufacturers Association (NEMA)
11. Insulated Power Cable Engineers Association (IPCEA)
12. International Building Codes (IBC)
13. International Energy Conservation Codes (IECC)

B. Equipment that has been inspected and approved by the Underwriter's Laboratory shall bear its label or appear on its list of approved apparatus.

1.07 DRAWINGS

A. Plans and detail sketches are submitted to limit, explain, and define conditions, specified requirements, conduit sizes, and manner of erecting work. The Contractor is cautioned to field check and verify all existing conditions before bidding, as no extra compensation will be allowed for conditions found different than represented in the construction drawings and/or specifications. Written approval of the Architect shall be obtained prior to any alterations or additions to specified work.

B. Structural or other conditions may require certain modifications from the manner of installation shown, and such deviations are permissible and shall be made as required, but specified sizes and requirements necessary for satisfactory operations shall remain unchanged.

C. The drawings and these specifications are complementary to each other and what is called for by one shall be binding as if called for by both.

D. General arrangement of work is indicated on plans. Due to the small scale of the drawings, offsets, fittings, and boxes required are not all indicated; provide fittings, boxes, etc., as needed in accordance with codes and accepted practices.

1.08 SUPERVISION

A. The Contractor shall personally or through an authorized and competent representative, constantly supervise the work from beginning to completion and final acceptance. So far as possible, he shall keep the same foreman and workmen throughout the project duration.

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B. During its progress, the work shall be subject to inspection by representatives of the Architect or Engineer, at which times the Contractor shall furnish required information.

C. It is not the Architect's or Engineer's duty to direct or guarantee the work of the Contractor, but to assist the Owner in obtaining a complete building in accordance with plans, specifications and addenda and to furnish engineering services in accordance with recognized practices.

1.09 PRIOR APPROVALS

A. The Contractor shall base his proposal on materials as specified herein. Any references to a specific manufacturer or trade name is made to establish a standard of quality and to define a type of product and in no way is intended to indicate a preference for a particular manufacturer. It is the intent of these specifications to allow all manufacturers of equipment, products, etc., judged equal to the specified product to bid on a competitive basis.

1.10 MEASUREMENTS

A. The Contractor shall verify all measurements and shall be responsible for the correctness of same, before ordering any materials or doing any work. No extra charge or compensation will be allowed for any differences between the actual measurements and those indicated on the drawings.

1.11 LAWS, PERMITS AND FEES

A. The entire electrical work shall comply with the rules and regulations of the City, Parish, and State, including the State Fire Marshal and State Board of Health, whether so shown on plans or not. The Contractor shall pay fees for permits, inspections, etc., and shall arrange with the inspecting authorities all required inspections.

1.12 SITE INSPECTION

A. The Contractor shall visit the site and familiarize himself with difficulties attendant to the successful execution of the work before bidding. Failure to visit the site shall not relieve the Contractor of the extent or conditions of the work required of him.

1.13 TEMPORARY FACILTIES

A. The Contractor shall provide all temporary power and lighting for construction purposes. Installation of temporary power shall be in accordance with NEC Article 527.

B. Temporary facilities, wire, lights, and devices are the property of the contractor and shall be removed by the Contractor at the completion of the Contract.

PART 2 - PRODUCTS

2.01 MATERIAL AND EQUIPMENT

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A. All materials, equipment, and accessories installed under this Contract, whether approved or not, shall be new and shall conform to all rules, codes, etc., as recommended or adopted by the National Association(s) governing the manufacture, rating and testing of such materials, equipment, and accessories.

B. Product Substitutions

1. If item of equipment or device offered as Substitution differs in dimension or configuration from that indicated in the Contract Documents, provide, as part of the substitution submittal, a drawing that shows that the equipment or devices proposed for Substitution can be installed in the space available without interfering with other trades or with access requirements for operations and maintenance in the completed project. Drawings shall be of appropriate scale but shall not be smaller than a scale of 1/4-inch equals one foot.
2. Where substitute equipment or devices requires different arrangement or connections from that indicated in the Contract Documents, install the equipment or devices to operate properly and in accordance with the requirements of the Contract Documents. Make incidental changes necessary in piping, ductwork or wiring which results from the inclusion of the substitute equipment or device without any additional cost to the Owner. Pay all additional costs incurred by other trades in connection with changes required by the inclusion of the substituted equipment or device in the Work.

2.02 SHOP DRAWINGS & SUBMITTALS

A. Shop drawings shall be taken to mean detailed drawings with dimensions, schedules, weights, capacities installation details, and pertinent information that will be needed to describe the material or equipment in detail.

1. Shop drawings shall be prepared using computerized digital software compatible with AutoDesk's AutoCAD
2. Submit hardcopy of Shop Drawings in the quantity as required under Division 01. Hardcopies of Shop Drawings shall have each sheet clearly labeled with a unique sheet identification number.
3. In addition to hardcopies required by Division 01, submit one copy of Shop Drawings in electronic format on Flash Drive. Files contained shall be named to correspond with the sheet names contained in the hardcopy set. Files on shall include both AutoCAD compatible source files and files printed to Portable Document Format (.pdf).

B. Submittals shall be taken to mean catalog cuts, general descriptive information, catalog numbers, and manufacturer's name.

C. Review of submittals or shop drawings shall not remove the responsibility for furnishing materials or equipment of proper dimensions, quantity and quality; nor will such review remove the responsibility for error in the shop drawings or submittals.

D. Assume all costs and liabilities, which may result from the ordering of any material, or equipment prior to the review of the shop drawings or submittals, and no work shall be done until the shop drawings or submittals

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have been reviewed. In case of correction or rejection, resubmit until such time as they are accepted by the Owner's representative and such procedures will not be cause for delay. After the final review, 6 copies will be supplied if requested.

E. Shop drawings and submittals will be returned unchecked if the specific items proposed are not clearly marked, or if the general Contractor's approval stamp is omitted.

F. Shop drawings, unless mark-ups are very trivial, will not be returned, "No Exception Taken". They will be returned for re-submittal as many times as necessary, however, the Contractor shall be back charged for engineering review time beginning with the second resubmittal. Therefore, the Contractor should make every effort to comply with the requirements of this Project on the first submittal in order to avoid project delays.

G. The Contractor shall submit to the Architect complete descriptive and dimensional data on the following items for review and approval when specified or provided:
1. Disconnect Switches
2. Electrical Contactors
3. Lighting Fixtures

PART 3 - METHODS OF INSTALLATIONS

3.01 CONTRACTOR COORDINATION

A. The Drawings are diagrammatic in nature. Cooperate with other trades so the interferences of facilities and equipment will be avoided.

B. Space allocations for materials, equipment and devices have been made on the basis of present and known future requirements and the dimensions of items of equipment or devices of a particular manufacturer. Verify that all materials, equipment and devices proposed for use on this Project are within the constraints of the allocated space.

C. Coordinate arrangement, mounting, and support of electrical equipment:
1. To allow maximum possible headroom unless specific mounting heights that reduce headroom are indicated.
2. To provide for ease of disconnecting the equipment with minimum interference to other installations.
3. To allow right of way for piping installed at required slope. So, connecting raceways, cables, wireways, cable trays, and busways will be clear of obstructions and of the working and access space of other equipment.

D. Coordinate installation of required supporting devices and set sleeves in cast-in-place concrete, masonry walls, and other structural components as they are constructed.

3.02 OPENINGS, CUTTING AND PATCHING

A. Cut all openings as required for the electrical work. Patching will be done by the various crafts whose work is involved. Furnish and install all

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necessary sleeves, thimbles, hangers, inserts, etc., at such times and in such a manner as not to delay or interfere with the work of other Contractors. Caulk, flash or otherwise make weatherproof all penetrations through the roof and exterior walls.

B. Where conduit, cable or other items that are provided for under this contract penetrate fire rated walls or floors, the Contractor is to seal around the item to maintain the integrity of the rated system.

3.03 PAINTING

A. Painting shall be performed as described in the painting specifications. No painting will be required by the Contractor except for touch-up of factory finishes on equipment furnished under this contract.

3.04 ACCESSIBILITY AND DEVICE MOUNTING HEIGHTS

A. All electrical devices shall be installed in compliance with the Americans with Disabilities Act (ADA) and local accessibility codes. Typical mounting heights shall be as follows unless noted otherwise on the drawings or required by authority having jurisdiction:

Device Type	Mounting Height (AFF to Center unless noted)
Duplex receptacles (general use)	18″
Data / communication outlets	18″
Above Counter	4” Above countertop
Wall switches / dimmers / occupancy sensors	48″
Thermostats / control panels	48″
Fire alarm pull stations	42″ (to operable part)
Exit signs	As required by Life Safety Code, typically above doors with bottom at 80″ min. AFF
Card readers / access controls	48″
Audio/visual devices (TV, monitors, etc.)	Coordinate with architect/owner

3.05 INSTALLATION

A. Housekeeping Pads: All floor and ground mounted electrical equipment - panels, switchboards, motor control centers, transformers, etc. shall be installed with a reinforced concrete housekeeping pad, whether shown on the drawings or not. The pad shall extend 4” above either the finished floor or final grade (as applicable), have 45 degree chamfered edges, and be constructed of 3000psi concrete. The pad shall extend 4” beyond the edge of the respective electrical equipment. Concrete shall have smooth steel trowel finish.

B. Equipment must be leveled and set plumb. Use corrosion resistant mounting hardware. For sheet metal enclosures mounted against a wall provide corrosion-resistant spaces to separate the wall by 1/4 inch or by 3 inches of air for freestanding units.

C. Unused knockouts on panels and boxes shall be covered with approved cover plates manufactured for the purpose.

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3.06 TESTS AND INSPECTIONS

A. The Contractor shall assist in making periodic inspections or tests required by the Architect or Engineer. When requested, the Contractor shall provide the assistance of foremen and qualified craftsmen for reasonable duration of each test, etc.

B. The contract will not be declared to be substantially complete until all of the following conditions are satisfied.
   1. the functional operation of the subsystems have been demonstrated and verified and reports have been provided, reviewed and accepted.
   2. The "As-Built" drawings have been submitted, reviewed and accepted by the Architect / Owner / Owner's Construction Representative.

3.07 SAFETY PRECAUTIONS DURING CONSTRUCTION

A. It shall be the Contractor's responsibility to furnish and install proper guards and instruction signs for prevention of accidents and to provide and maintain for the duration of construction any installations needed for safety of life and property.

3.08 CONNECTIONS

A. This Contractor shall be responsible for providing electrical service to all devices of the heating and air conditioning system, and is referred to the mechanical plan for the exact location of the various devices.

B. Mechanical Controls: Provide 120VAC power connections as required to components of Mechanical Control system. Coordinated quantity of circuits, connection requirements and locations between trades and with provisions of Divisions 21, 22, and 23 sections.

C. Security and Access Control: Where the Drawings indicate a 120VAC circuit in a general area labeled for security or access control use, the intent is for this circuit to be extended and connected to the security or access control device in that general area in coordination with other trades. Coordinated connection requirements and locations between trades and with Owner's Security vendor prior to installation.

D. Motors and Motor Connections: Motors for driven equipment are specified in Divisions 21, 22, and 23. Provide connections as follows, unless otherwise indicated:
   1. Equipment provided with factory installed disconnecting means: Upon installation of motor and associated equipment, Provide the electrical installation in accordance with approved wiring diagrams and manufacturer's written instructions.
   2. Equipment furnished with factory disconnecting means: Upon installation of motor and associated equipment, Install factory furnished disconnecting means and provide the electrical installation in accordance with approved wiring diagrams and manufacturer's written instructions.
   3. Equipment not furnished with factory installed disconnecting

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means: Provide disconnect switch required in accordance with NFPA 70 or as indicated on the Drawings. Provide the electrical installation in accordance with approved wiring diagrams and manufacturer's written instructions.

3.09 LOAD BALANCING

A. Balance load on all phases in each panel to within 10% of respective phase loads.

3.10 IDENTIFICATION OF EQUIPMENT

A. Identification of Equipment: Refer to specification 26 05 53 Identification for Electrical Equipment.

3.11 COMPLETION

A. The Contractor shall leave all electrical equipment with proper connections, and in proper working order. He shall test the entire electrical system to show that it is properly installed. Contractor shall leave all panels and switches completely fused or complete with circuit breakers.

3.12 RECORD DRAWINGS

A. The Contractor shall furnish one (1) complete set of drawings on which any changes in the work shall be shown. In addition to changes in work contractor shall clearly indicate routing of all feeders both above and below ground. All underground conduit shall be noted on drawings to show "as built" locations. These drawings must be turned over to the Architect prior to final acceptance of the work.

3.13 GUARANTEE

A. The Contractor shall guarantee to keep the entire electrical system as installed by him or his subcontractors in repair and in perfect working order for one (1) year from the date of the final Certification of Final Acceptance, and shall furnish free of cost to the Owner, all material and labor necessary to comply with the above guarantee; said guarantee shall be based upon defective material and workmanship. In any case where equipment has a factory warranty exceeding this one-year limit, the full extent of the warranty shall apply.

3.14 CLEANING

A. When all work has been finally tested, the Contractor shall clean all fixtures, equipment, conduits, ducts, and all exposed work. All cover plates and other finished products shall be thoroughly cleaned.

3.15 INSTRUCTION MANUALS

A. The Contractor shall provide three (3) operating and maintenance instruction manuals on all systems and equipment installed in the electrical work.

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B. The Contractor shall provide (3) copies of all warranties and guarantees for systems, equipment, devices, and materials.

END OF SECTION 16010

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SECTION 16060 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1- GENERAL

1.01 SUMMARY

A. NFPA 70 and IEEE C2 include basic grounding requirements for electrical safety. This Section supplements the minimum safety requirements of the Code with requirements for additional grounding and with optional grounding methods and materials for both power and electronic systems.

B. This Section includes methods and materials for grounding systems and equipment, plus the following special applications:
1. Underground distribution grounding.
2. Common ground bonding with lightning protection system.

1.02 QUALITY ASSURANCE

A. Testing Agency Qualifications: For independent agency as defined in Division 26 Section “Common Work Results for Electrical”.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

C. Comply with UL 467 for grounding and bonding materials and equipment.

D. Comply with NFPA 70

E. Comply with IEEE C2

F. Comply with ANSI/EIA/TIA-607

PART 2 - PRODUCTS

2.01 CONDUCTORS

A. Insulated Conductors: Copper or Tinned-Copper wire or cable insulated for 600 V unless otherwise required by applicable Code or authorities having jurisdiction.

B. Bare Copper Conductors:
1. Solid Conductors: ASTM B 3.
2. Stranded Conductors: ASTM B 8.
3. Bonding Cable: 28 kcmil, 14 strands of No. 17 AWG conductor, 1/4 inch (6 mm) in diameter.
4. Bonding Conductor: No. 4 or No. 6 AWG, stranded conductor.
5. Bonding Jumper: Copper tape, braided conductors, terminated with copper ferrules; 1-5/8 inches (41 mm) wide and 1/16 inch (1.6 mm) thick.
6. Tinned Bonding Jumper: Tinned-copper tape, braided conductors, terminated with copper ferrules; 1-5/8 inches (41 mm) wide and 1/16 inch (1.6 mm) thick.
7. Main Bonding Jumper: stranded copper conductors sized as

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indicated on Drawings.

8. Grounding Electrode Conductor: stranded copper conductors sized as indicated on Drawings.
9. Common Grounding Electrode Conductor: stranded copper conductors sized as indicated on Drawings.

C. Grounding Bus: Rectangular bars of annealed copper, 1/4 by 4 inches (6 by 100 mm) in cross section, unless otherwise indicated; with insulators. Length as indicated on Drawings.

2.02 CONNECTORS

A. Listed and labeled by a nationally recognized testing laboratory acceptable to authorities having jurisdiction for applications in which used, and for specific types, sizes, and combinations of conductors and other items connected.

B. Bolted Connectors for Conductors and Pipes: Copper or copper alloy, bolted pressure-type, with at least two bolts.
1. Pipe Connectors: Clamp type, sized for pipe.

C. Welded Connectors: Exothermic-welding kits of types recommended by kit manufacturer for materials being joined and installation conditions.

2.03 GROUNDING ELECTRODES

A. Ground Rods: Copper-clad steel; 5/8 inch (16 mm) diameter by 120 inches (3000 mm) long, unless otherwise indicated.

PART 3 - EXECUTION

3.01 APPLICATIONS

A. Conductors: Install insulated solid conductor for No. 10 AWG and smaller, and insulated stranded conductors for No. 8 AWG and larger, unless otherwise indicated.

B. Grounding Bus: Install in electrical and telephone/communications equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
1. Install bus on insulated spacers 1 inch (25 mm), minimum, from wall 6 inches (150 mm) above finished floor, unless otherwise indicated.
2. Where indicated on both sides of doorways, route bus up to top of door frame, across top of doorway, down to specified height above floor, and connect to horizontal bus.

C. Conductor Terminations and Connections: Use the following connectors styles, unless otherwise indicated.
1. Pipe and Equipment Grounding Conductor Terminations: Bolted connectors.
2. Underground Connections: Exothermic Welded connectors, except at test wells and as otherwise indicated.
3. Connections to Ground Rods at Test Wells: Bolted connectors.
4. Connections to Structural Steel: Exothermic Welded connectors.
5. Connections to Ufer Ground: Exothermic Welded connectors.

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D. Comply with ANSI-607 requirements for telephone/communications grounding riser

3.02 EQUIPMENT GROUNDING

A. Install insulated equipment grounding conductors with all feeders and branch circuits.
   1. Bond to each device, box, or luminaire, unless otherwise indicated.
   2. Conductor insulation of the same rating as the phase conductors, for all feeders and branch circuits. Install the grounding conductors in the raceway with related phase and neutral conductors.
   3. Where parallel conductors in separate raceways occur, provide a grounding conductor in each raceway that meets requirements of NFPA 70.

B. Dry-Type Transformers: Install an insulated grounding conductor from the common point of connection of the transformer secondary neutral point and the transformer enclosure to the following:
   1. The nearest grounding electrode per NFPA 70, including but not limited to building steel where available.
   2. The grounding bus of the common electrode grounding system, located in the electrical equipment room.

C. Enclosures: Install an insulated grounding conductor from grounding bushings to the frame of the enclosure, ground bus, and equipment grounding strap where each occurs. Install grounding bushings on all raceways terminating within electrical enclosures constructed of separate enclosure panels, which are not integrally welded together.

D. Air-Duct Equipment Circuits: Install insulated equipment grounding conductor to duct-mounted electrical devices operating at 120 V and more, including but not limited to air cleaners, heaters, dampers, humidifiers, and other duct electrical equipment. Bond conductor to each unit and to air duct and connected metallic piping.

E. Water Heater, Heat-Tracing, and Antifrost Heating Cables: Install a separate insulated equipment grounding conductor to each electric water heater and heat-tracing cable. Bond conductor to heater units, piping, connected equipment, and components.

F. Signal and Communication Equipment: For telephone, alarm, voice and data, and other communication equipment, provide No. 4 AWG minimum insulated grounding conductor in raceway from grounding electrode system to each service location, terminal cabinet, wiring closet, and central equipment location.
   1. Service and Central Equipment Locations and Wiring Closets: Terminate grounding conductor on a 1/4-by-4 (6-by-1000) grounding bus. Length as indicated on the drawings.
   2. Terminal Cabinets: Terminate grounding conductor on cabinet grounding terminal.

3.03 INSTALLATION

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A. Provide permanent service neutral and equipment grounding in accordance with NFPA 70 and subject to the following additional requirements.

B. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated or required by Code. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.

C. Comply with mounting and support requirements specified in Division 26 Section "Hangers and Supports for Electrical Systems."

D. Connect the service neutral and equipment ground to a common point within the metallic enclosure containing the main service disconnecting means. Equipment grounds and the identified neutral of the wiring system shall not be interconnected beyond this point in the interior wiring system. From the common point of connection of the service neutral and the equipment ground, run in non-magnetic conduit a grounding electrode conductor without joint or splice to the grounding electrode system and connect it with an approved bolted pressure clamp.

E. Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.
   1. Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
   2. Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install so vibration is not transmitted to rigidly mounted equipment.
   3. Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connection is required, use a bolted clamp.
   4. Where expansion joints or telescoping joints occur, provide bonding jumpers.

F. Grounding and Bonding for Piping:
   1. Metal Water Service Pipe: Install insulated copper grounding conductors, in conduit, from building's main service equipment, or grounding bus, to main metal water service entrances to building. Connect grounding conductors to main metal water service pipes, using a bolted clamp connector or by bolting a lug-type connector to a pipe flange, using one of the lug bolts of the flange. Where a dielectric main water fitting is installed, connect grounding conductor on street side of fitting. Bond metal grounding conductor conduit or sleeve to conductor at each end.
   2. Water Meter Piping: Use braided-type bonding jumpers to electrically bypass water meters. Connect to pipe with a bolted connector.
   3. Bond each aboveground portion of gas piping system downstream from equipment shutoff valve.

G. Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners. Install bonding jumper to bond across flexible duct connections to achieve continuity.

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H. Grounding for Steel Building Structure: Install a driven ground rod at base of each corner column and at intermediate exterior columns at distances not more than 60 feet (18 m) apart.

3.04 IDENTIFICATION

A. Identify field-installed conductors, interconnecting wiring, and components as specified in Division 26 Section "Identification for Electrical Systems."

3.05 FIELD QUALITY CONTROL

A. Perform the following field tests and inspections and prepare certified test reports:
   1. After installing grounding system but before permanent electrical circuits have been energized, test for compliance with requirements.
   2. Test completed grounding system at each location where a maximum at service disconnect enclosure grounding terminal, at ground test wells, at individual ground rods and locations where a ground-resistance level is specified,. Make tests at ground rods before any conductors are connected.
      a. Measure ground resistance not less than two full days after last trace of precipitation and without soil being moistened by any means other than natural drainage or seepage and without chemical treatment or other artificial means of reducing natural ground resistance.
      b. Perform tests by fall-of-potential method according to IEEE 81.

B. Excessive Ground Resistance: If resistance to ground exceeds specified values, notify Architect promptly and include recommendations to reduce ground resistance.
   1. Report measured ground resistances that exceed the following values:
      a. Building's Grounding Triad: 2 ohms or less.
      b. Power and Lighting Equipment or System with Capacity 500 kVA and Less: 10 ohms.
      c. Power and Lighting Equipment or System with Capacity 500 to 1000 kVA: 5 ohms.
      d. Power and Lighting Equipment or System with Capacity More Than 1000 kVA: 3 ohms.
      e. Power Distribution Units or Panelboards Serving Electronic Equipment: 1 ohm(s).
      f. Substations and Pad-Mounted Equipment: 5 ohms.
      g. Manhole/Handhole Grounds: 10 ohms.

C. Correct Deficiencies, Retest and Report:
   1. Correct unsatisfactory conditions, and retest to demonstrate compliance; replace conductors, units, and rods as required to bring system into compliance.
   2. Prepare a report, certified by testing agency, which identifies components checked and describes results. Include notation of deficiencies detected, remedial action taken, and observations and test results after remedial action.

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SECTION 16070 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

A. This Section includes the following:
1. Hangers and supports for electrical equipment and systems.
2. Construction requirements for concrete bases.

1.03 DEFINITIONS

A. EMT: Electrical metallic tubing.

B. FMC: Flexible metal conduit.

C. IMC: Intermediate metal conduit.

D. RMC: Rigid metal conduit.

E. RAC: Rigid aluminum conduit.

F. RNC: Rigid nonmetallic conduit.

G. RSC: Rigid Steel conduit.

1.04 PERFORMANCE REQUIREMENTS

A. Delegated Design: Design supports for multiple raceways, raceways using NFPA 70 criteria and performance requirements and design criteria indicated.
1. Design supports for multiple raceways capable of supporting combined weight of supported systems and its contents.
2. Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.

B. Rated Strength: Adequate in tension, shear, and pullout force to resist maximum loads calculated or imposed for this Project, with a minimum structural safety factor of five times the applied force.

1.05 SUBMITTALS

A. Product Data: For the following:
1. Steel slotted support systems.
2. Nonmetallic slotted support systems.

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B. Shop Drawings: Show fabrication and installation details and include calculations for the following:
   1. Trapeze hangers. Include Product Data for components.
   2. Steel slotted channel systems. Include Product Data for components.
   3. Nonmetallic slotted channel systems. Include Product Data for components.
   4. Equipment supports.
   5. Concrete Based for Equipment.

C. Welding certificates.

1.06 QUALITY ASSURANCE

A. Welding: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."

B. Comply with NFPA 70.

1.07 COORDINATION

A. Coordinate size and location of concrete bases. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified in Division 03.

B. Coordinate installation of roof curbs, equipment supports, and roof penetrations. These items are specified in Division 07 Section "Roof Accessories."

PART 2 - PRODUCTS

2.01 SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS

A. Steel Slotted Support Systems: Comply with MFMA-4, factory-fabricated components for field assembly.
   1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
      a. Allied Tube & Conduit.
      b. Cooper B-Line, Inc.; a division of Cooper Industries.
      c. ERICO International Corporation.
      d. GS Metals Corp.
      e. Thomas & Betts Corporation.
      f. Unistrut; Tyco International, Ltd.
      g. Wesanco, Inc.
   2. Metallic Coatings: Hot-dip galvanized after fabrication and applied according to MFMA-4.
   3. Nonmetallic Coatings: Manufacturer's standard PVC, polyurethane, or polyester coating applied according to MFMA-4.
   4. Painted Coatings: Manufacturer's standard painted coating applied according to MFMA-4.
   5. Channel Dimensions: Selected for applicable load criteria.

B. Nonmetallic Slotted Support Systems: Structural-grade, factory-formed, glass-fiber-resin channels and angles with 9/16-inch- (14-mm-) diameter holes at a maximum of 8 inches (200 mm) o.c., in at least 1 surface.
   1. Available Manufacturers: Subject to compliance with requirements,

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manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Allied Tube & Conduit.
b. Cooper B-Line, Inc.; a division of Cooper Industries.
c. Fabco Plastics Wholesale Limited.
d. Seasafe, Inc.

2. Fittings and Accessories: Products of channel and angle manufacturer and designed for use with those items.
3. Fitting and Accessory Materials: Same as channels and angles, except metal items may be stainless steel.
4. Rated Strength: Selected to suit applicable load criteria.

C. Device Box Mounting Brackets and Stabilizer: Factory-fabricated sheet steel brackets for support of device boxes adjacent to or between studs.

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a. Cooper B-Line, Inc.; a division of Cooper Industries.
   b. ERICO International Corporation.

D. Through-Stud Cable and Raceway Support Clips: Factory-fabricated spring steel clip for cables or raceways where run horizontally through metal studs.

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a. Cooper B-Line, Inc.; a division of Cooper Industries.
   b. ERICO International Corporation.

E. Roof-mounted Raceway Support Blocking: Factory-fabricated support blocking for use under roof-mounted raceways. Wedge-shaped blocking constructed of 100% recycled UV-resistant Rubber with integral galvanized steel strut to accept raceway support clips.

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a. Cooper B-Line, Inc.; a division of Cooper Industries.
   b. ERICO International Corporation.

F. Tee Bar Grid Box Hanger: Factory-fabricated metal electrical box hanger for supporting boxes at locations between ceiling system t-grid components. Height adjustable for various electrical box depths. Attached to ceiling tee bar with screws or integral clamp for stability. Includes tab for independent support wire attachment.

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a. Cooper B-Line, Inc.; a division of Cooper Industries.
   b. ERICO International Corporation.

G. Raceway and Cable Supports: As described in NECA 1 and NECA 101.

H. Conduit and Cable Support Devices: Steel and malleable-iron hangers, clamps, and associated fittings, designed for types and sizes of raceway or cable to be supported.

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I. Support for Conductors in Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug or plugs for non-armored electrical conductors or cables in riser conduits. Plugs shall have number, size, and shape of conductor gripping pieces as required to suit individual conductors or cables supported. Body shall be malleableiron.

J. Structural Steel for Fabricated Supports and Restraints: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.

K. Mounting, Anchoring, and Attachment Components: Items for fastening electrical items or their supports to building surfaces include the following:
1. Powder-Actuated Fasteners: Threaded-steel stud, for use in hardened portland cement concrete, steel, or wood, with tension, shear, and pullout capacities appropriate for supported loads and building materials where used.
a. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1) Hilti Inc.
2) ITW Ramset/Red Head; a division of Illinois Tool Works, Inc.
3) MKT Fastening, LLC.
4) Simpson Strong-Tie Co., Inc.; Masterset Fastening Systems Unit.
2. Mechanical-Expansion Anchors: Insert-wedge-type, stainless steel, for use in hardened portland cement concrete with tension, shear, and pullout capacities appropriate for supported loads and building materials in which used.
a. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1) Cooper B-Line, Inc.; a division of Cooper Industries.
2) Empire Tool and Manufacturing Co., Inc.
3) Hilti Inc.
4) ITW Ramset/Red Head; a division of Illinois Tool Works, Inc.
5) MKT Fastening, LLC.
3. Concrete Inserts: Steel or malleable-iron, slotted support system units similar to MSS Type 18; complying with MFMA-4 or MSS SP-58.
4. Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached structural element.
5. Through Bolts: Structural type, hex head, and high strength. Comply with ASTM A325.
6. Toggle Bolts: All-steel springhead type.
7. Hanger Rods: Threaded steel.

2.02 FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES

A. Description: Welded or bolted, structural-steel shapes, shop or field fabricated to fit dimensions of supported equipment.

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B. Materials: Comply with requirements in Division 05 Section "Metal Fabrications" for steel shapes and plates.

PART 3 - EXECUTION

3.01 APPLICATION

A. Comply with NECA 1 and NECA 101 for application of hangers and supports for electrical equipment and systems except if requirements in this Section are stricter.

B. Maximum Horizontal and Vertical Support Spacing for Raceway(s): Space supports for EMT, IMC, and RMC as required by NFPA 70, but in no case less than listed below:
1. For raceways 1" diameter and larger, provide one hanger at 8'-0" on center.
2. For raceways less than 1" diameter, provide one hanger at 5'-0" on center.

C. Minimum Hanger Rod Size for Raceway Supports: Minimum rod size shall be 1/4 inch (6 mm) in diameter.

D. Single Raceways or Cables:
1. For Raceways 1-1/4-inch (32mm) and smaller: Install adjustable steel band hanger suspended on threaded rod.
2. For Raceways larger than 1-1/4-inch (30mm): Install trapeze-type supports fabricated with steel slotted support system suspended on threaded rods. Size trapeze members, including the suspension rods, based on the support required for the size, and loaded weight of the conduits.
    a. Secure raceway or cable to support with two-bolt conduit clamps or single-bolt conduit clamps using spring friction action for retention in support channel.

E. Multiple Raceways or Cables: Install trapeze-type supports fabricated with steel slotted or other support system, sized so capacity can be increased by at least 25 percent in future without exceeding specified design load limits.
1. Secure raceways and cables to these supports with two-bolt conduit clampssingle-bolt conduit clamps using spring friction action for retention in support channel.

F. Spring-steel clamps designed for supporting single conduits without bolts may be used for 1-1/2-inch and smaller raceways serving branch circuits and communication systems above suspended ceilings and for fastening raceways to trapeze supports.

G. Corrosive Areas: Provide non-metallic slotted support systems for supports installed in corrosive areas. Corrosive areas include, but are not limited to the following:
1. Pools and Pool Equipment Areas.
2. Within 25-feet (7.62-m) of Cooling Towers and Air Cooled Chillers.

3.02 SUPPORT INSTALLATION

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A. Comply with NFPA 70, NECA 1 and NECA 101 for installation requirements except as specified in this Article.

B. Raceway Support Methods: In addition to methods described in NECA 1, EMT IMC RMC EMT, IMC, and RMC may be supported by openings through structure members, as permitted in NFPA 70.

C. Fasten junction, pull and devices boxes securely to the building construction, independent of raceway system.

D. Install Device Box Mounting Brackets supported between two studs. Do not attached Receptacle boxes directly to a single stud.

E. Install Through-Stud Cable and Raceway Support Clips where cables or raceways run horizontally through metal studs.

F. Support raceways at a distance above suspended ceilings to permit removal of ceiling panels and luminaires.

G. Locate raceways so as not to hinder access to mechanical equipment.

H. Do not secure conductors, raceways, or supports to suspended ceiling hanger rods or wires.

I. Install Tee Bar Grid Box Hanger supported between two ceiling grid tee bars where devices boxes are located flush in recessed suspended ceilings.
   1. Install at least one independent support rod from box hanger to structure.

J. Install Roof-mounted Raceway Support Blocking where raceways run on across roofing.
   1. Coordinate installation of roof supports with items specified in Division 07 Section "Roof Accessories." Provide products compatible with rooftop materials included in the Work.

K. Strength of Support Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static loads within specified loading limits. Minimum static design load used for strength determination shall be weight of supported components plus 200 lb.

L. Mounting and Anchorage of Surface-Mounted Equipment and Components: Anchor and fasten electrical items and their supports to building structural elements by the following methods unless otherwise indicated by code:
   1. To Wood: Fasten with lag screws or through bolts.
   2. To New Concrete: Bolt to concrete inserts.
   3. To Masonry: Approved toggle-type bolts on hollow masonry units and expansion anchor fasteners on solid masonry units.
   4. To Existing Concrete: Expansion anchor fasteners.
   5. Instead of expansion anchors, powder-actuated driven threaded studs provided with lock washers and nuts may be used in existing standard-weight concrete 4 inches thick or greater. Do not use for anchorage to lightweight-aggregate concrete or for slabs less than 4 inches thick.
   6. To Steel: Beam clamps (MSS Type 19, 21, 23, 25, or 27) complying with MSS SP-69 or Spring-tension clamps.

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7. To Light Steel: Sheet metal screws.
8. Items Mounted on Hollow Walls and Nonstructural Building Surfaces: Mount cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices on slotted-channel racks attached to substrate.

M. Drill holes for expansion anchors in concrete at locations and to depths that avoid reinforcing bars.

3.03 INSTALLATION OF FABRICATED METAL SUPPORTS

A. Comply with installation requirements in Division 05 Section "Metal Fabrications" for site-fabricated metal supports.

B. Cut, fit, and place miscellaneous metal supports accurately in location, alignment, and elevation to support and anchor electrical materials and equipment.

C. Field Welding: Comply with AWS D1.1/D1.1M.

3.04 CONCRETE BASES

A. Construct concrete bases of dimensions indicated but not less than 4 inches larger in both directions than supported unit, and so anchors will be a minimum of 10 bolt diameters from edge of the base.

B. Use 3000-psi, 28-day compressive-strength concrete. Concrete materials, reinforcement, and placement requirements are specified in Division 03 Section "Cast-in-Place Concrete."

C. Anchor equipment to concrete base.
1. Place and secure anchorage devices. Use supported equipment manufacturer's setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
2. Install anchor bolts to elevations required for proper attachment to supported equipment.
3. Install anchor bolts according to anchor-bolt manufacturer's written instructions.

3.05 PAINTING

A. Touchup: Clean field welds and abraded areas of shop paint. Paint exposed areas immediately after erecting hangers and supports. Use same materials as used for shop painting. Comply with SSPC-PA 1 requirements for touching up field-painted surfaces.
1. Apply paint by brush or spray to provide minimum dry film thickness of 2.0 mils.

B. Touchup: Comply with requirements in Division 09 painting Sections for cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint on miscellaneous metal.

C. Galvanized Surfaces: Clean welds, bolted connections, and abraded areas and apply galvanizing-repair paint to comply with ASTM A 780.

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END OF SECTION 16070

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SECTION 16075 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Furnish and install items for identification of electrical products installed under Division 26.

1.02 SUBMITTALS

A. Product Data: For each electrical identification product indicated.

B. Identification Schedule: An index of nomenclature of electrical equipment and system components used in identification signs and labels.

C. Samples: For each type of label and sign to illustrate size, colors, lettering style, mounting provisions, and graphic features of identification products.

1.03 COORDINATION

A. Coordinate identification names, abbreviations, colors, and other features with requirements in the Contract Documents, Shop Drawings, manufacturer's wiring diagrams, and the Operation and Maintenance Manual, and with those required by codes and standards. Use consistent designations throughout Project.

B. Coordinate installation of identifying devices with completion of covering and painting of surfaces where devices are to be applied.

C. Coordinate installation of identifying devices with location of access panels and doors.

D. Install identifying devices before installing acoustical ceilings and similar concealment.

PART 2 - PRODUCTS

2.01 RACEWAY AND METAL-CLAD CABLE IDENTIFICATION MATERIALS

A. Comply with ANSI A13.1 for minimum size of letters for legend and for minimum length of color field for each raceway and cable size.

B. Color for Printed Legend:
1. Power Circuits: Black letters on an orange field.
2. Legend: Indicate system or service and voltage, if applicable.
   a. Typical:
      1) Type: Example – AC 60 Hertz
      2) Load: Example – Lighting and Power
      3) Voltage: Example – 120VA / 1 Phase
   b. As Required

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1) If more than one type of power is available in a conduit, then it shall be marked with the title "Electrical" on orange background.
2) If used for control of HVAC conduit shall be marked with the title "Control" on an orange background

c. Conduit that contains communication systems shall have the exact contend and title on blue background.

C. Self-Adhesive Vinyl Labels: Preprinted, flexible label laminated with a clear, weather- and chemical-resistant coating and matching wraparound adhesive tape for securing ends of legend label.

D. Self-Adhesive Vinyl Tape: Colored, heavy duty, waterproof, fade resistant; 2 inches (50 mm)wide; compounded for outdoor use.

2.02 CONDUCTOR IDENTIFICATION MATERIALS

A. Color-Coding Conductor Tape: Colored, self-adhesive vinyl tape not less than 3 mils (0.08 mm)thick by 1 to 2 inches (25 to 50 mm) wide.

B. Marker Tapes: Vinyl or vinyl-cloth, self-adhesive wraparound type, with circuit identification legend machine printed by thermal transfer or equivalent process.

2.03 UNDERGROUND-LINE WARNING TAPE

A. Description: Permanent, bright-colored, continuous-printed, polyethylene tape.
1. Not less than 6 inches (150 mm) wide by 4 mils (0.102 mm) thick.
2. Compounded for permanent direct-burial service.
3. Embedded continuous metallic strip or core.
4. Printed legend shall indicate type of underground line.

2.04 WARNING LABELS AND SIGNS

A. Comply with NFPA 70 and 29 CFR 1910.145

B. Self-Adhesive Warning Labels: Factory printed, multicolor, pressure-sensitive adhesive labels, configured for display on front cover, door, or other access to equipment, unless otherwise indicated.

C. Baked-Enamel Warning Signs: Preprinted aluminum signs, punched or drilled for fasteners, with colors, legend, and size required for application. 1/4-inch grommets in corners for mounting. Nominal size, 7 by 10 inches.

D. Warning label and sign shall include, but are not limited to, the following legends:
1. Multiple Power Source Warning: "DANGER - ELECTRICAL SHOCK HAZARD -EQUIPMENTHAS MULTIPLE POWER SOURCES."
2. Workspace Clearance Warning: "WARNING - OSHA REGULATION - AREA IN FRONT OF ELECTRICAL EQUIPMENT MUST BE KEPT CLEAR FOR ## INCHES." Verify work space required for specific project conditions with NFPA 70 and replace "##" in previous sentence with

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appropriate distance.

3. Arc Flash Warning and Instructions: "WARNING – ARC FLASH AND SHOCK HAZARD. WEAR APPROPRIATE PPE. Determine appropriate protective clothing and personal protective equipment (PPE) for the task from NFPA 70E.

2.05 INSTRUCTION SIGNS

A. Engraved, laminated acrylic or melamine plastic, minimum 1/16 inch thick for signs up to 20 sq. in. and 1/8 inch thick for larger sizes.

B. Engraved legend with black letters on white face.

C. Punched or drilled for mechanical fasteners.

D. Framed with mitered acrylic molding and arranged for attachment at applicable equipment.

2.06 ONE-LINE DIAGRM NAMEPLATE

A. Preprinted engraved, laminated acrylic or melamine plastics sign. Nominal size, 12 by 12 inches (305 by 305 mm) by 1/8 inch (3.2 mm) thick. Engraved legend with black letters on white face. Image on sign depicting equipment components in single-line diagram format, using symbols and letter designations consistent with final one-line bus diagram. Produce a concise visual presentation of principal equipment components and connections.

2.07 EQUIPMENT IDENTIFICATION LABELS

A. Engraved, Laminated Acrylic or Melamine Label: Punched or drilled for screw mounting. White letters on a dark-gray background. Minimum letter height shall be 3/8 inch. Lettering and Background colors as indicated below:

System / Circuit Type	Label Letter Color	Background Color	Notes
Normal Power Circuits	White	Black	Applies to all normal distribution equipment and receptacles.
Fire Alarm System	Black	Red	Applies to FACP, annunciators, initiating and notification circuits.
Fire Suppression Supervisory & Control	Yellow	Red	Sprinkler, clean agent, or suppression monitoring.
Combined Fire Alarm & Security	Blue	Red	Only if systems are combined in panels or circuits.
Security System	Blue	Yellow	Access control, intrusion detection, cameras.
Mechanical / Electrical Supervisory (BAS)	Green	White	Building automation and monitoring systems.
Telecommunications	Blue	White	Structured cabling, data, voice. (Coordinate

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			with Division 27).
Control Wiring	Green	White	HVAC and other control circuits.

2.08 MISCELLANEOUS IDENTIFICATION PRODUCTS

A. Cable Ties : Fungus-inert, self-extinguishing, 1-piece, self-locking, Type 6/6 nylon cable ties.
   1. Minimum Width: 3/16 inch (5 mm)
   2. Tensile Strength: 50 lb (22.6 kg), minimum
   3. Temperature Range: Minus 40 to plus 185 deg F (Minus 40 to plus 85 deg C).
   4. Color: Black, except where used for color-coding.

B. Paint: Paint materials and application requirements are specified in Division 09 painting Sections.

C. Fasteners for Labels and Signs: Self-tapping, stainless-steel screws or stainless-steel machine screws with nuts and flat and lock washers.

PART 3 - EXECUTION

3.01 APPLICATION

A. Branch-Circuit Conductor Identification: Where there are conductors for more than three branch circuits in same junction or pull box, use color-coding conductor tape. Identify each ungrounded conductor according to source and circuit number.

B. Conductors to Be Extended in the Future: Attach write-on tags to conductors and list source and circuit number.

C. Auxiliary Electrical Systems Conductor Identification: Identify field-installed alarm, control, signal, sound, intercommunications, voice, and data connections.
   1. Identify conductors, cables, and terminals in enclosures and at junctions, terminals, and pull points. Identify by system and circuit designation.
   2. Use system of marker tape designations that is uniform and consistent with system used by manufacturer for factory-installed connections.
   3. Coordinate identification with Project Drawings, manufacturer's wiring diagrams, and Operation and Maintenance Manual.

D. Junction Boxes and Pull Boxes: Identify voltage, source, and circuit number(s) on cover of pull and junction boxes with hand-written legible block lettering using black permanent marking pen.

E. Instruction Signs:
   1. Operating Instructions: Install instruction signs to facilitate proper operation and maintenance of electrical systems and items to which they connect. Install instruction signs with approved legend where instructions are needed for system or equipment operation.

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2. Emergency Operating Instructions: Install instruction signs with minimum 3/8-inch- (10-mm-) high letters for emergency instructions at equipment used for power transfer load shedding, Kirk Key Controlled Breakers.

F. Equipment Identification Labels: On each unit of equipment, install unique designation label that is consistent with wiring diagrams, schedules, and Operation and Maintenance Manual. This applies to existing equipment that is modified during this project. Apply labels to disconnect switches and protection equipment, central or master units, control panels, control stations, terminal cabinets, and racks of each system. Systems include power, lighting, control, communication, signal, monitoring, and alarm systems unless equipment is provided with its own identification.

1. Labeling Instructions:
   a. Indoor Equipment: Engraved, laminated acrylic or melamine label. Unless otherwise indicated, provide a single line of text with 1/2-inch- high letters on 1-1/2-inch- high label; where 2 lines of text are required, use labels 2 inches high.
   b. Outdoor Equipment: Engraved, laminated acrylic or melamine label.
   c. Elevated Components: Increase sizes of labels and letters to those appropriate for viewing from the floor.
2. Equipment to Be Labeled Shall Include But Not Be Limited To:
   a. Panelboards, electrical cabinets, and enclosures.
   b. Access doors and panels for concealed electrical items.
   c. Electrical switchgear and switchboards.
   d. Transformers.
   e. Emergency system boxes and enclosures.
   f. Receptacles with panel and circuit numbers.
   g. Disconnect switches.
   h. Enclosed circuit breakers.
   i. Power transfer equipment. (ATS/MTS)
   j. Contactors.
   k. Motor Starters
   l. Motor-control centers
   m. Fire-alarm control panel and annunciators
   n. Power-generating units.
   o. Uninterruptible power supply equipment
   p. All junction boxes. Label to include circuit numbers (panel and number).
   q. All receptacle device plates shall be etched with circuit numbers. (panel and number).
   r. All lighting switch plates shall have circuit numbers on the back of the plate. (panel and number).

Examples:

NORMAL 'HA' 480Y/277V FED FROM 'MDP'	EMERGENCY SYSTEM 'ATS-LS' 480Y/277V FED FROM 'MDP' NORMAL FED FROM 'EMSB' EMERGENCY FEEDS 'LS-HA'	NORMAL 'T-LA' 75KVA, 480V to 208Y/120V FED FROM 'HA' FEEDS 'LA'

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3. Provide for each feeder overcurrent protective device in each switchgear, switchboard, distribution panelboard, motor control center, and any other similar equipment furnished under this Division, identification as to the specific load that it serves.

G. Existing Panel Schedules: Any existing panel where a circuit was removed, relocated or added, the contractor shall provide a new panel schedule with updated information.

3.02 INSTALLATION

A. Verify identity of each item before installing identification products.

B. Location: Install identification materials and devices at locations for most convenient viewing without interference with operation and maintenance of equipment.

C. Apply identification devices to surfaces that require finish after completing finish work.

D. Self-Adhesive Identification Products: Clean surfaces before application, using materials and methods recommended by manufacturer of identification device.

E. Attach non-adhesive signs and plastic labels with screws and auxiliary hardware appropriate to the location and substrate.

F. System Identification Color Banding for Raceways and Cables: Each color band shall completely encircle cable or conduit. Place adjacent bands of two-color markings in contact, side by side. Locate bands at changes in direction, at penetrations of walls and floors, at 50-foot (15-m) maximum intervals in straight runs, and at 25-foot (7.6-m) maximum intervals in congested areas.

G. Color-Coding for Identification, 600 V and Less: Use the colors listed below for ungrounded service, feeder, and branch-circuit conductors.
1. Color shall be factory applied or for sizes larger than No. 1 AWG, if authorities having jurisdiction permit, field applied.
2. Colors for Grounding Conductors:
   a. Equipment Grounding Conductor: Green.
   b. Isolated Equipment Grounding Conductor: Green with Yellow Stripe.
3. Colors for 208/120-V Wye Systems:
   a. Phase A: Black.
   b. Phase B: Red.
   c. Phase C: Blue.
   d. Grounded Conductor (Neutral): White
4. Colors for 480/277-V Wye Systems:
   a. Phase A: Brown.
   b. Phase B: Orange
   c. Phase C: Yellow.
   d. Grounded Conductor (Neutral): Gray
5. Field-Applied, Color-Coding Conductor Tape: Apply in half-lapped turns for a minimum distance of 6 inches (150 mm) from terminal

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points and in boxes where splices or taps are made. Apply last two turns of tape with no tension to prevent possible unwinding. Locate bands to avoid obscuring factory cable markings.

H. Aluminum Wraparound Marker Labels and Metal Tags: Secure tight to surface of conductor or cable at a location with high visibility and accessibility.

I. Painted Identification: Prepare surface and apply paint according to Division 09 painting Sections.

END OF SECTION 16075

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SECTION 16090 - ELECTRICAL DEMOLITION

PART 1 – GENERAL

1.01 SUMMARY

A. Section Includes:

1. Provide all labor, material and equipment to perform all electrical demolition as specified and as shown on the Drawings.
2. All equipment selected for demolition shall have power and communication cables de- energized and disconnected. All disconnected cables shall be removed.
3. All Power and Lighting panels circuit breakers shall be relabeled as spare where power was once fed to demolished equipment.
4. All conduit shall be disconnected and removed from demolished equipment.
5. All concrete encased conduit and underground conduit shall remain in place. All concrete encased conduit and underground conduit that stubs through floors and walls shall be cut flush and concrete shall be patched.
6. Contractor is responsible for making equipment scheduled for demolition safe for removal.

B. Related Documents:

1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Owner's General Requirements, apply to this Section.

PART 2 - PRODUCTS Not Used

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify that field measurements and circuitry arrangements are as shown on the Drawings.

B. Verify that abandoned wiring and equipment serve only abandoned facilities.

C. Demolition work indicated on drawings are based on casual field observation and existing record documents. Report discrepancies to Engineer before disturbing any existing installation.

D. The Contractor accepts existing conditions by starting demolition work.

E. Contractor shall familiarize himself with the existing electrical site systems and with the work of all other trades and include all work necessary to comply with the intent of this section.

F. It shall be understood that field conditions may be encountered during the execution of this contract which will require extension or relocation of existing systems or equipment which are not specifically shown on the

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drawings, but, which are required to meet the stated intent that the existing electrical system continue to function unaffected by the demolition and associated new construction. Contractor shall include such work as would normally be expected to accomplish the work.

G. The bidder is required to visit the project site prior to submitting bid to verify the exact configuration of the electrical items being removed, relocated, or modified. No claims for extra work shall be accepted after awarding of bids for discrepancies between verifiable field conditions and the items shown on drawings if these items are readily verifiable.

H. Should this contractor encounter field conditions which, in their opinion, were not verifiable by visual inspection of the site prior to submitting bids, they shall notify the Engineer immediately, in writing, and request a decision as to the scope of work. The Engineer shall provide the necessary interpretations and instructions in a reasonable time.

3.02 PREPARATION

A. Coordinate electrical power outages with appropriate utility company and Owner. All outages must be scheduled with owner a minimum of 2-weeks in advance. Outages shall be scheduled as to minimize disruption and outage duration.

B. Investigate the existing conditions of electrical system in walls, floors and ceilings scheduled for removal.

C. Disconnect and deliver to the Owner those items requested to remain the Owner's property.

D. Provide temporary wiring and connections to maintain existing systems in service where needed. When work must be performed on energized equipment or circuits, use personnel experienced in such operations.

E. Prior to any digging, boring, drilling or excavating on or adjacent to this site, identify location of existing utility lines through the services of a utility location outfit.

3.03 DEMOLITION OF ELECTRICAL FACILITIES

A. Demolish electrical work under provisions of this section. All electrical items indicated to be removed shall remain Owner's property unless stated otherwise. All removed electrical items that the Owner does not wish to keep shall become Contractor's property and removed from the site.

B. For demolition in buildings that are to be removed as part of demolition work:

1. Remove abandoned wiring to source of supply.
2. Disconnect electrical devices and equipment serving equipment that has been (or will be) removed.
3. Fill with compacted soil any trench, hole or cavity created by the relocation or removal of any existing conduit, and pole concrete base.

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C. For demolition in buildings that are to remain in service after completion of demolition work:

1. Remove exposed abandoned raceways.
2. Repair adjacent construction and finishes damaged during demolition and extension work.
3. Maintain access to existing electrical installations which remain active. Modify installation or provide access panel as appropriate.
4. Where new construction conflicts with existing electrical work which is to remain, relocate the electrical work involved.
5. Where existing circuits are interrupted by demolition or new work, extend and reconnect those systems. Where those systems must remain in service during the execution of this contract, provide temporary connections until final connections are complete.
6. Any parts of existing construction which are to remain and which are damaged during demolition and preparatory work or new construction work on the project shall be patched to match existing adjacent surfaces. Patching and finishing of such areas shall conform with all applicable requirements of other technical sections of these specifications, and shall match existing work in material, type, finish, etc.
7. Equipment, circuits and utilities that remain, but that are served by feeders or circuits being removed or altered shall be reconnected in accordance with the methods required by this specification and the NEC, without extra cost to the Owner.
8. All materials and equipment noted to be reused or relocated shall be cleaned, retested, repaired if necessary, modified if required, prepared for reuse, and be stored and protected from the outdoor environment on the site until it is time for re-installation.
9. Fill with compacted soil any trench, hole or cavity created by the relocation or removal of any existing conduit, and pole concrete base.
10. Remove all abandoned data cabling located above ceilings that are exposed during demolition.
11. Where demo of electrical equipment is shown this shall include demolition of any unused supports, housekeeping pads, and associated conduit/conductor.
12. Disconnect and remove all abandoned equipment including but not limited to panelboards, and disconnect switches.
13. Where labeling is required by project specifications contractor shall trace and label all circuits to remain that are affected by construction or demolition.

3.04 DISPOSAL OF DEMOLISHED MATERIALS

A. Except for items or materials indicated to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.
1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
3. Transport demolished materials off Owner's property and legally dispose of them.

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3.05 CLEANING AND REPAIR (FOR FACILITIES TO REMAIN IN SERVICE)

A. General

1. Clean and repair existing materials and equipment which remain or are to be reused.

END OF SECTION

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SECTION 16120 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

A. This Section includes the following:
1. building wires and cables rated 600V and less
2. Connectors, splices and terminations rated 600 V and less
3. Sleeves and sleeve seals for cables

1.03 QUALITY ASSURANCE

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

B. Comply with NFPA 70- Latest edition or edition enforced by state and local code authority.

PART 2 - PRODUCTS

2.01 CONDUCTORS AND CABLES

A. Refer to Part 3 "Conductor and Insulation Applications" Article for insulation type, cable construction, and ratings.

B. Conductor Material: Copper unless indicated otherwise on Drawings; stranded conductor or solid conductor for No. 10 AWG and smaller, stranded for No. 8 AWG and larger.

C. Conductor Insulation Types: Comply with NEMA WC 70 for Types THHN-THWN, XHHW, and SO, as indicated.

D. Multiconductor Cables: Comply with NEMA WC 70; Exterior sheath color coded to differentiate cable voltages and quantity of phase conductors.

E. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.

F. Conductor Temperature Rating: Provide conductors with 75 degree C rating. For high temperature applications, provide conductors with temperature ratings in accordance with NDPA 70 for ambient condition.

PART 3 - EXECUTION

3.01 CONDUCTOR AND INSULATION APPLICATIONS

A. Service Entrance: Type THHN-THWN, single conductors in raceway.

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B. Exposed Feeders: Type THHN-THWN, single conductors in raceway.

C. Feeders Concealed in Ceilings, Walls, and Partitions: Type THHN-THWN, single conductors in raceway.

D. Feeders Concealed in Concrete, below Slabs-on-Grade, and in Crawlspaces: Type THHN- THWN, single conductors in raceway.

E. Exposed Branch Circuits, including in Crawlspaces: Type THHN-THWN, single conductors in raceway.

F. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Type THHN-THWN, single conductors in raceway.

G. Branch Circuits Concealed in Concrete and below Slabs-on-Grade: Type THHN-THWN, single conductors in raceway.

H. Branch Circuits Installed below Raised Flooring: Type THHN-THWN, single conductors in raceway.

I. Fire Alarm Cabling: Plenum rated, exposed. Secured per NFPA 70-760.

J. Combining of more than three circuits in a conduit is not allowed. IE no more than three phase conductors.

K. Single Phase Circuits: Provide a dedicated neutral. Sharing of neutrals is not allowed.

L. Cord Drops and Portable Appliance Connections: Type SO, hard service cord with stainless-steel,wire-mesh, strain relief device at terminations to suit application.

3.02 INSTALLATION

A. Conceal cables in finished walls, ceilings, and floors, unless otherwise indicated.

B. Run feeders in continuous lengths, without joints or splices. Where continuous runs are impractical; obtain Engineer’s approval for splice locations and application.

C. Run branch in continuous lengths, without joints or splices. Where continuous runs are impractical it shall be permitted to splice, however no splices shall be permitted within in-grade pull boxes.

D. Make joints in branch circuits only where circuits divide.

E. Do not use gutters of panelboards as raceways, junction boxes, or pull boxes for conductors not terminating in said panelboards.

F. Run conduits for emergency power conductors separate from all other wiring.

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G. Bundling Conductors: Bundle conductors in switchboards, panelboards, cabinets, and the like, using nylon ties made for the purpose. Bundle conductors larger than No. 10 in individual circuits. Smaller conductors may be bundled in larger groups.

H. Terminations of multiple branch circuit conductors on a single circuit breaker is not acceptable.

I. Install exposed cables parallel and perpendicular to surfaces of exposed structural members, and follow surface contours. Install all conductors in raceways, unless specifically noted otherwise.

J. Support cables according to Section "Basic Electrical Materials and Methods."

K. Identify and color-code conductors and cables according to Section “Identification for Electrical Equipment”

L. Sizes:
1. Provide conductors no smaller than No. 12 AWG, except for signal or control circuits.
2. Use #10 AWG conductors for 20 amperage 120V circuits when the circuit conductors are longer than 75 feet.
3. Use #10 AWG conductors for 20 amperage 277V circuits when the circuit conductors are longer than 200 feet.
4. Provide neutral conductors of the same size as the phase conductor(s) for individual branch circuit homeruns.

3.03 WIRE PULLING

A. Pull no conductors into conduits until all Work of a nature which may cause injury to conductors is completed.

B. Follow manufacturers’ recommendations for regulating temperature conditions of conductors prior to installation.

C. Exercise care in handling and installing cables to avoid damage. Carefully form cables in equipment pull boxes. Form bends in cables larger than the minimum radii shown in the cable manufacturer's published data for minimum bends such that bends will not reduce the cable life.

D. Provide suitable installation equipment to prevent abrasion and cutting of conductors by raceways during the pulling of conductors. Use ropes of polyethylene, nylon or other suitable non-metallic material to pull in feeders. Metallic ropes are prohibited.

E. Before any wire is pulled into any conduit, thoroughly swab the conduit to remove all foreign material and to permit the wire itself to be pulled into a clean, dry conduit.

F. Use manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed manufacturer's recommended maximum pulling tensions and sidewall pressure values.

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G. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips, that will not damage cables or raceway.

3.04 CONNECTIONS

A. Tighten electrical connectors and terminals according to manufacturer's published torque- tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B

B. Wiring at Outlets: Install conductor at each outlet, with at least 6 inches (150 mm) of slack.

C. Provide temperature ratings of connectors and splices to match wire rating.

END OF SECTION 16120

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SECTION 16130 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

A. This Section includes raceways, fittings, boxes, enclosures, and cabinets for electrical wiring.

B. Related Sections include the following:
1. Refer to architectural for firestopping materials and installation at penetrations through walls, ceilings, and other fire-rated elements.
2. "Basic Electrical Materials and Methods" for supports, anchors, and identification products.

1.03 DEFINITIONS

A. EMT: Electrical metallic tubing.

B. ENT: Electrical nonmetallic tubing.

C. FMC: Flexible metal conduit.

D. IMC: Intermediate metal conduit.

E. LFMC: Liquidtight flexible metal conduit.

F. LFNC: Liquidtight flexible nonmetallic conduit.

G. RNC: Rigid nonmetallic conduit.

1.04 SUBMITTALS

A. Product Data: For surface raceways, floor boxes, and cabinets.

B. Coordination Drawings: Submit Coordination Drawings in accordance with Division 26 Section “Basic Electrical Requirements”. Include the following:
1. Raceway routing plans, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:
a. Proposed cable pull points.
b. Structural members in the paths of conduit groups with common supports.
c. HVAC, plumbing items, and architectural features in the paths of conduit groups. Denote where systems share common supports.
d. Purposed splice locations.

1.05 QUALITY ASSURANCE

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A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

B. Comply with NFPA 70-Latest edition or edition enforced by state and local code authority.

1.06 COORDINATION

A. Coordinate layout and installation of raceways, boxes, enclosures, cabinets, and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

PART 2 - PRODUCTS

2.01 METAL WIREWAYS

A. Material and Construction: Sheet metal sized and shaped as indicated.
1. Indoors: NEMA-1
2. Outdoors: NEMA-3R

B. Fittings and Accessories:
1. Include couplings, offsets, elbows, expansion joints, adapters, hold-down straps, end caps, and other fittings to match and mate with wireways as required for complete system.
2. Provide spring nuts or guards on all screws installed toward the inside to prevent wire insulation damage.

C. Select features, unless otherwise indicated, as required to complete wiring system and to comply with NFPA 70 and UL 870.

D. Wireway Covers:
1. Hinged type unless access restrictions require screw-cover type.
2. Flanged-and-gasketed as required for NEMA type

E. Finish: Manufacturer's standard enamel finish.

2.02 SURFACE RACEWAYS

A. Surface Metal Raceways: Galvanized steel with snap-on covers. Finish with manufacturer's standard prime coating and two coats of paint. Color by Architect.

B. Surface Nonmetallic Raceways: Two-piece construction, manufactured of rigid PVC with texture and color selected by Architect from manufacturer's standard colors.

C. Surface raceways used together with couplings, clips, bushings, straps, connectors, connection covers, elbows, boxes, extension boxes, fixture boxes, extension adapters, blank covers and all other required fittings; size to accommodate the conductors to be installed therein in each case.

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2.03 BOXES, ENCLOSURES, AND CABINETS

A. Sheet Metal Pull and Junction Boxes: NEMA OS 1.

B. Cast-Metal Pull and Junction Boxes: NEMA FB 1, cast aluminum, type FD with gasketed cover.

C. Hinged-Cover Enclosures: with continuous hinge cover and flush latch.
1. Metal Enclosures: Steel, finished inside and out with manufacturer's standard enamel.
2. Nonmetallic Enclosures: Plastic, finished inside with radio-frequency-resistant paint.
3. Ratings:
   a. Indoor Locations: NEMA 250, Type 1.
   b. Outdoor Locations: NEMA 250, Type 3R.

D. Cabinets:
1. Hinged door in front cover with flush latch and concealed hinge.
2. Key latch to match panelboards.
3. metal barriers to separate wiring of different systems and voltage and
4. Accessory feet where required for freestanding equipment.
5. Feet: Provide accessory feet for free standing equipment.
6. Ratings:
   a. Indoor Locations: NEMA 250, Type 1.
   b. Outdoor Locations: NEMA 250, Type 3R.

E. In Grade Enclosures, Boxes And Covers:
1. required to conform to all test provisions of the most current ANSI/SCTE 77 for Tier 22 applications.
2. When multiple “Tiers” are specified the boxes must physically accommodate and structurally support compatible covers while possessing the highest Tier rating.
3. All covers are required to have the Tier level rating embossed on the surface. In no assembly can the cover design load exceed the design load of the box.
4. Cover to be labeled per use of box, ie “Electrical, Communications, etc”. Communications pull boxes shall be a minimum of 24"W X 36"L X 36 “D.

2.04 FACTORY FINISHES

A. Finish: For raceway, enclosure, or cabinet components, provide manufacturer's standard prime- coat finish ready for field painting.

2.05 METAL CONDUIT AND TUBING

A. Rigid Steel Conduit: Comply with ANSI C80.1 and UL 6; Galvanized rigid steel, each length with a coupling on one end and thread protector on opposite end.

B. Aluminum Rigid Conduit: Comply with ANSI C80.5 and UL 6A; Rigid aluminum, each length with a coupling on one end and thread protector on opposite end.

C. IMC: Comply with ANSI C80.6. and UL 1242.

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D. Plastic-Coated Steel Conduit and Fittings: Comply with NEMA RN 1; PVC-coated RSC with 0.040 inch (1 mm), minimum coating thickness.

E. EMT and Fittings: ANSI C 80.3 and UL 797

F. FMC: Aluminum

G. LFMC: Comply with UL 360; Flexible steel conduit with neoprene jacket and copper grounding strand.

H. Conduit fittings for Hazardous (Classified) Locations: Comply with UL 886.

I. Fittings for RSC, RAC and IMC: Provide factory made threaded couplings of same material as the conduit.
   1. Molded thermoplastic insulating bushing at all boxes and cabinets, with locknuts inside and outside box or cabinet. In wet locations, provide watertight hubs for conduit entry into enclosures.
   2. Thermoplastic insulated grounding bushing on all conduits where grounding bushings are required, with locknuts inside and outside the enclosure. In wet locations provide watertight hubs for conduit entry into enclosures.
   3. Provide bushings on all conduits 1" or larger.

J. Fittings for EMT:
   1. Steel, set-screw or compression couplings.
   2. Steel, set-screw or compression insulated throat box connectors with molded thermoplastic insulating bushing at all boxes and cabinets, with locknuts inside box or cabinet.
   3. Steel, set-screw or compression insulated throat box connectors with thermoplastic insulated grounding bushing on all tubing where grounding bushings are required.
   4. Insulated throat material for fittings to be of a color that is easily distinguishable; clear thermoplastic throats are not acceptable.
   5. Provide bushings on all conduits 1" or larger.
   6. Provide thermoplastic bushings on all conduits for telecommunications, data, fire alarm cabling and similar.

K. Fittings for FMC and LFMC:
   1. Adapters at connections between flexible and rigid conduit.
   2. Thermoplastic insulated throat, steel connectors at box or cabinet terminations.
   3. Insulated throat material for fittings to be of a color that is easily distinguishable; clear thermoplastic throats are not acceptable.

L. Fittings for Conduit (Including all Types and Flexible and Liquidtight), EMT, and Cable:NEMA FB 1; listed for type and size raceway with which used, and for application and environment in which installed.

M. Joint Compound for RSC or IMC: Listed for use in cable connector assemblies, and compounded for use to lubricate and protect threaded raceway joints from corrosion and enhance their conductivity.

PART 3 - EXECUTION

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3.01 RACEWAY APPLICATION

A. Outdoors:
1. Exposed: RSC, RAC, or IMC.
2. Concealed: RSC, RAC, or IMC.
3. Underground, Single Run: RNC.
4. Underground, Grouped: RNC.
5. Emergency Feeders: RSC
6. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): LFMC.
7. Boxes and Enclosures: NEMA 250, Type 3R, unless otherwise indicated.

B. Indoors:

1. Exposed, Not Subject to Physical Damage: EMT.Concealed: EMT.
2. Exposed and Subject to Physical Damage: RSC, or IMC.
3. Emergency feeders and branch circuits: EMT
4. Conductors over 600 volts: RAC, RSC, or IMC.
5. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): FMC; except use LFMC in damp or wet locations.
6. Damp or Wet Locations above Ground: RAC, RSC, or IMC
7. Boxes and Enclosures: NEMA 250, Type 1, except as follows:
   a. Damp or Wet Locations: NEMA 250, Type 4, stainless steel.

C. Minimum Raceway Size:
1. Branch Circuits:3/4-inch (21mm) trade size
2. Feeder Circuits: 3/4-inch (21mm)

D. Provide minimum 1/2-inch (16-mm) conduit for controls circuiting.

E. Raceway Fittings: Compatible with raceways and suitable for use and location.
1. RAC, RSC and IMC: Use threaded fittings, unless otherwise indicated.

F. Junction and Pull Boxes: Sheet steel boxes, unless noted or required otherwise.
1. Provide boxes no smaller than 4 inches square and 1-1/2 inches deep.
2. Size all junction and pull boxes in accordance with the NFPA 70, unless project conditions dictate use of larger boxes.

G. Outlet and Device Boxes: Sheet steel boxes, unless noted or required otherwise.
1. For Lighting Fixture Outlets: 4 inch square with raised fixture ring.
2. For Wall Switches, Receptacles, and Communication Use: 4 inch square, one-piece. Use boxes with plaster rings in all plastered walls where wall thickness permits. Use boxes less than 1-1/2 inch deep only in locations where deep boxes cannot be accommodated by construction.
3. Boxes Used Outdoors or in Damp/Wet Locations: Cast metal boxes with gasketed covers and threaded hubs.

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3.02 INSTALLATION

A. Install raceways a minimum of 6-inches (150 mm) away from parallel runs of flues, steam pipes,hot-water pipes, and other objects operating at high temperatures

B. Install horizontal raceway runs above water and steam piping. Install raceways a minimum of 1-inch (25.4-mm) frompipe insulation.

C. Complete raceway installation before starting conductor installation.

D. Support raceways as specified in "Basic Electrical Requirements."

E. Install temporary closures to prevent foreign matter from entering raceways.

F. Recessed Boxes in Fire-Rated Partitions: For boxes located on opposite sides of same partition do not install boxes back-to-back; separate boxes with a minimum of 24 inch separation

G. Do not install aluminum conduits in contact with concrete.

H. Make bends and offsets so ID is not reduced. Keep legs of bends in the same plane and keep straight legs of offsets parallel, unless otherwise indicated.

I. Conceal conduit:
   1. EMT shall be installed within finished walls, ceilings, and floors, unless otherwise indicated.
   2. Install concealed raceways with a minimum of bends in the shortest practical distance, considering type of building construction and obstructions, unless otherwise indicated.
   3. On concealed conduit systems where boxes are not otherwise accessible, set boxes flush with finished surfaces for access, and provide overlapping covers.

J. Raceways Embedded in Slabs: Install in middle 1/3 of slab thickness where practical and leave at least 2 inches (50 mm) of concrete cover.
   1. Secure raceways to reinforcing rods to prevent sagging or shifting during concrete placement.
   2. Space raceways laterally to prevent voids in concrete.
   3. Run conduit larger than 1-inch trade size (DN 27) parallel or at right angles to main reinforcement. Where at right angles to reinforcement, place conduit close to slab support.

K. Install exposed raceways parallel or at right angles to nearby surfaces or structural members and follow surface contours as much as possible.
   1. Run parallel or banked raceways together on common supports.
   2. Make parallel bends in parallel or banked runs. Use factory elbows only where elbows can be installed parallel; otherwise, provide field bends for parallel raceways.

L. Join raceways with fittings designed and approved for that purpose and make joints tight.
   1. Use insulating bushings to protect conductors.

M. Terminations:

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1. Where raceways are terminated with locknuts and bushings, align raceways to enter squarely and install locknuts with dished part against box. Use two locknuts, one inside and one outside box.
2. Where raceways are terminated with threaded hubs, screw raceways or fittings tightly into hub so end bears against wire protection shoulder. Where chase nipples are used, align raceways so coupling is square to box; tighten chase nipple so no threads are exposed.

N. Stub-up Connections:
1. Extend conduits through concrete floor for connection to freestanding equipment. Install with an adjustable top or coupling threaded inside for plugs set flush with finished floor.
2. Extend conductors to equipment with rigid steel conduit; FMC may be used 6 inches (150 mm) above the floor. Install screwdriver-operated, threaded plugs flush with floor for future equipment connections.
3. Protect stub-ups from damage where conduits rise through floor slabs. Arrange so curved portions of bends are not visible above the finished slab.
4. Change from ENT to RAC, RSC, or IMC before rising above the floor.

O. Flexible Conduit Connections:
1. Use minimum of 72 inches at final connections to equipment subject to vibration, noise transmission, or movement; and for transformers and motors.
2. Use LFMC in damp or wet locations subject to severe physical damage including mechanical equipment rooms, at motor or equipment locations at or near pumps, and when installed outdoors.
3. Use LFMC in damp or wet locations not subject to severe physical damage.

P. Install covers on junction boxes and conduit bodies after wiring and connections are completed.

Q. Run conductors over 48 Volts in raceway, unless otherwise indicated.

R. Surface Raceways: Install a separate, green, ground conductor in raceways from junction box supplying raceways to receptacle or fixture ground terminals.

S. Pull Boxes:
1. Install no more than the equivalent of three 90-degree bends and a maximum of 150 feet between pull points in any conduit run except for communications conduits, for which fewer bends are allowed.
2. Provide boxes where shown and where necessary for the installation and pulling of cables and wires.

T. Pull Wires:
1. Install pull wires in empty raceways. Use polypropylene or monofilament plastic line with not less than 200-lb (90-kg) tensile strength.
2. Leave at least 12 inches (300 mm) of slack at each end of pull wire.

U. Install hinged-cover enclosures and cabinets plumb. Support at each corner.

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3.03 PROTECTION

A. Provide final protection and maintain conditions that ensure coatings, finishes, and cabinets are without damage or deterioration at time of Substantial Completion.
   1. Repair damage to galvanized finishes with zinc-rich paint recommended by manufacturer.
   2. Repair damage to PVC or paint finishes with matching touchup coating recommended by manufacturer.

3.04 CLEANING

A. After completing installation of exposed, factory-finished raceways and boxes, inspect exposed finishes and repair damaged finishes.

END OF SECTION 16130

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SECTION 16500 - LIGHTING

PART 1 - GENERAL

1.01 LIGHTING SCHEDULE

A. The Contractor shall install lighting fixtures and accessories as shown on the drawings and/or described herein. The Contractor shall also install lamps for all fixtures.

1.02 SUBMITTALS & PRIOR APPROVAL

A. Prior approvals and/or submittals shall submit the following:
   1. Cutsheets clearly indicating fixture options selected.
   2. Photometric calculations of the floor plan including point by point calculations and a calculation schedule which shall include the following foot-candle measurements for each room and site plan.
      a. Maximum value
      b. Minimum value
      c. Max/Min Ratio
      d. Average

PART 2 - PRODUCTS

2.01 LED LIGHTING

A. Lighting fixtures with LED light sources shall meet the following fixture and light source requirements:
   1. LED Color Temperature – Per Drawings
   2. CRI > 80
   3. Line Voltage – Universal Voltage 120-277 volts
   4. Governmental Standards – LM79 and LM80 Compliant
   5. Expected Lamp Life – LED Life Rating (L70 B10) to be 60,000 hours to 100,000 hours; Defined as time of operation (in hours) to 30% lumen depreciation (i.e. 70% lumen maintenance), derived from Luminaire in-situ temperature measurement testing (i.e. LED chip package temperature (TS) measurement obtained with the LED chip package operating in given luminaire and in a given stabilized ambient environment) under UL1598 environments and directly correlated to LED package manufacturers IESNA LM-80-08 data. Predicted (L70 B10) Limits (@ 25°C luminaire ambient operating environment): Greater than 60,000 hours @ 350mA Drive Current
   6. Driver – Components must be fully encased in potting material for moisture resistance, and must comply with IEC and FCC standards
   7. Surge Protection – Surge protection must be provided including separate sure protection built into electronic driver
   8. Mechanical – Luminaire LED system components to be low copper aluminum, with high performance heat sink(s) designed specifically for LED luminaires. No active cooling features (Fans, etc.). Luminaire configuration must allow for modular upgradability and/or field repair of all electrical components (i.e. LED modules, Driver(s), etc.). Drivers and vertical light bars must be all mounted to a twist-lock tool-less assembly for ease of installation and trouble-shooting.

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2.02 LIGHTING ACCESSORIES

A. All lighting shall be equipped with the appropriate housing for the ceiling type shown on the architectural reflected ceiling plan.
   1. GYP Ceilings –
      a. 1'X4' 2'X2' & 2'X4' Troffers: Provide flange kit or surface mount kit. If not explicitly indicated on plan contractor shall price based on the more costly product and submit an RFI to Engineer prior to purchase.
      b. Downlights: Provide recessed housing and appropriate flange kit.
      c. Strip lighting: Provide surface mount kit. In areas with ceiling heights greater than 10' contractor shall provide chain suspension hardware.
      d. Architectural linear fixtures: Where indicated as recessed contractor shall provide flange kit or mud-in kit as required. If not explicitly indicated on plan contractor shall price based on the more costly product and submit an RFI to Engineer prior to purchase.
   2. Grid Ceilings – Provide appropriate mounting hardware to recess fixtures into grid.

B. Fire ratings: Lighting in fire rated ceiling shall be equipped with fire padding, caulking, and/or housings as required to maintain fire ratings. Contractor shall refer to architectural plans for all fire ratings prior to bid.

C. Emergency battery backup and inverters:
   1. Where remote battery backup is utilize contractor shall coordinate all remote test switch locations with owner/architect prior to rough in. They shall not be located in ceiling adjacent to fixture.
   2. Where integral battery backup is utilized the fixture shall include self-diagnostics. This shall not be required if specified fixture does not include a self-diagnostic option.
   3. Where an inverter is utilized contractor shall provide UL924 transfer devices in the quantity required to accomplish control as shown on plans. Where inverter fixture utilized line voltage dimming contractor shall notify engineer immediately prior to bid.

2.03 FIXTURES

A. Fixtures as described in the Fixture Schedule on the drawings shall be furnished by the Contractor and shall be properly installed.

B. Where fixtures are specified with emergency remote test switches contractor shall coordinate location of remote test switch with Owner/Architect prior to installation.

C. Warramty shall be 5 year minimum.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Unless otherwise specified, lighting fixtures shall be permanently installed and connected to the wiring system.

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B. The Contractor shall support each fixture, independently from the building structure. Ceiling framing members shall not be used to support fixtures except in specified areas where ceiling supports for this purpose have been specified elsewhere in these specifications. Each fixture shall have at least two fixture supports.

C. Flexible conduit used for fixture whips shall be at least twelve (12) inches, but not more than 48 inches long.

3.02 CEILING COMPATIBILITY

A. Catalog numbers shown on the drawings or descriptions of lighting fixtures contained herein may indicate fixture compatibility with certain types of ceiling construction. Contractor shall determine exact type of ceiling actually to be furnished in each area and shall obtain fixtures to suit, deviation from specified catalogue numbers or descriptions only where necessary and only to the extent necessary to insure fixture/ceiling compatibility.

3.03 LIGHT LEAKS

A. The Contractor shall, at the end of this project, adjust all recessed lighting fixtures so that there will be no light leaks between the fixture trim and the ceiling. Contractor shall also adjust recessed fluorescent fixtures to eliminate any light leaks between fixture trim and ceiling grid member.

3.04 LAMPS

A. The Contractor shall install lamps in all fixtures and shall obtain replacement lamps should any not properly operate or become damaged during construction.

3.05 EXIT FIXTURES

A. Exit fixtures shall be installed according to Life Safety Code requirements, with face(s) plainly visible and directional arrows indicating the proper direction of egress.

END OF SECTION 16500

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SECTION 16520 – ARENA LIGHTING FIXTURES

PART 1 – GENERAL

1.01 SUMMARY

A. Work covered by this section of the specifications shall conform to the contract documents, engineering plans as well as state and local codes.

B. The purpose of these specifications is to define the lighting system performance and design standards for the Grambling State University Arena using an LED Lighting source. The manufacturer / contractor shall supply lighting equipment to meet or exceed the standards set forth in these specifications.

C. The sports lighting will be for the following venues:
1. Grambling State University Arena

E. The primary goals of this sports lighting project are:
1. Guaranteed Light Levels: Selection of appropriate light levels impact the safety of the players and the enjoyment of spectators. Therefore light levels are guaranteed to not drop below specified target values for a period of 10 years.
2. Environmental Light Control: It is the primary goal of this project to minimize glare to the players and spectators. The LED design should provide better control than a good HID design.
3. Life-cycle Cost: In order to reduce the operating budget, the preferred lighting system shall be energy efficient and cost effective to operate. All maintenance costs shall be eliminated for the duration of the warranty.
4. Control and Monitoring: To allow for optimized use of labor resources and avoid unneeded operation of the facility, customer requires a remote on/off control system for the lighting system. Venue should be proactively monitored to detect luminaire outages over a 10-year life cycle. All communication and monitoring costs for 10-year period shall be included in the bid.

F. All lighting designs shall comply with 1.2A Lighting Performance.

1.02 LIGHTING PERFORMANCE

A. Illumination Levels and Design Factors: Playing surfaces shall be lit to an average target illumination level and uniformity as specified in the chart below. Lighting calculations shall be developed and field measurements taken on the grid spacing with the minimum number of grid points specified below. Appropriate light loss factors shall be applied and submitted for the basis of design. Average illumination level shall be measured in accordance with the IESNA LM-5-04 (IESNA Guide for Photometric Measurements of Area and Sports Lighting Installations). Illumination levels shall not to drop below desired target values in accordance to IES RP-6-15, Page 2, Maintained Average Illuminance and shall be guaranteed for the full warranty period.

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Area of Lighting	Average Target Illumination Levels	Maximum to Minimum Uniformity Ratio	Grid Points	Grid Spacing
Basketball Horizontal	125fc	1.7:1	60	10'x10'
Basketball Main Camera	100fc	1.7:1	60	10'x10'
Basketball End Camera	60fc	4.0:1	60	10'x10'
Basketball Extended Floor	100fc	4.0:1	173	10'x10'

B. Obstruction Compensation: To achieve the illumination and uniformity design levels required, the manufacturers design calculations and fixture aiming positions must compensate for miscellaneous obstructions, equipment sound system speakers, center hung video boards, mechanical ducts, roof support cross bracing, etc.

C. Mounting Heights: Fixtures shall be mounted in the locations shown on the bid drawings.

1.03 LIGHT CONTROL

A. Light Control Luminaires: All luminaires shall utilize spill light and glare control devices including, but not limited to, internal shields, louvers and external shields. No symmetrical beam patterns are accepted.

B. The first page of a photometric report for all luminaire types proposed showing horizontal and vertical axial candle power shall be provided to demonstrate the capability of achieving the specified performance. Reports shall be certified by a qualified independent testing laboratory with a minimum of five years experience or by a manufacturer's laboratory with a current accreditation under the National Voluntary Laboratory Accreditation Program for Energy Efficient Lighting Products. A summary of the horizontal and vertical aiming angles for each luminaire shall be included with the photometric report.

PART 2 – PRODUCT

2.01 APPROVED MANUFACTURERS

A. The following products are pre-approved to bid:
1. MUSCO
2. GigaTera

B. All others shall submit prior approval a minimum of 7 days prior to bid.

2.02 SPORTS LIGHTING SYSTEM CONSTRUCTION

A. Manufacturing Requirements: All components shall be designed and manufactured as a system. All luminaires, drivers, and other enclosures shall be factory assembled, aimed, wired and tested.

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B. Durability: The lighting system, including all mounting brackets, shall be powder-coat painted for protection. All mounting brackets are to be made of steel construction. Only stainless steel or zinc plated steel hardware is allowed.

C. System Description: Lighting system shall consist of the following:
1. LED Lamp Technology Sports Lighting Fixtures. Minimum of 100,000 hour lamp life, instant on/off capabilities, and DMX Dimming Capabilities. Dimming interface shall be via a hard wire connection. Wireless controls not permitted.
2. Fixtures must have internal optic control and external visors to minimize glare in the seats and on the event floor. Fixture wattage shall not exceed 500 watts and maximum design lumen output shall be 56,381 lumens per fixture to ensure adequate glare control.
3. To ensure proper RGBA color saturation, a minimum of 64,000 lumen of blue and red and 160,000 lumens of green, and 140,000 lumens of amber must be provided
4. Fixtures must come standard with a 10 year full coverage warranty, parts and labor on Sports Lighting equipment.
5. Color Temperature of 4,500 Kelvin and 75 CRI
6. Fixture Operating Temperature Range of -30 Degrees C to 40 Degrees C. Maximum Junction Temperature of the diodes shall be 90 Degrees C.
7. Fixtures shall use remote electronic drivers with an efficiency of 95% or greater. Integral driver fixtures are not acceptable. Remote driver enclosures shall be mounted on the catwalk or in an electrical room or location as shown on the electrical plans. Each enclosure shall house drivers, fusing, and associated wiring.
8. Secondary Wiring: Wiring from the remote driver to the fixture shall be 1000V rated and meet all local electrical codes.
9. Custom Mounting Hardware: Manufacturer shall provide all design work, brackets, and hardware for mounting the lighting system to the facility's structural steel. Fixture mounting brackets must be customized to the structure to ensure a clean appearance and quick installation. All mounts to have fixed aiming plate to ensure proper aiming over the length of the warranty
10. All fixtures to have a knuckle cone to ensure proper aiming.
11. (2) Moving Head mounted on each side of the arena. (3) custom GOBO's for each moving head. System must be programmed with the sports lighting system and have remote ability to program and troubleshoot system

D. Safety: All system components shall be UL listed for the appropriate application.

2.03 ELECTRICAL

A. Electric Power Requirements for the Sports Lighting Equipment:
1. Per voltage and phasing on site
2. Maximum total voltage drop: Voltage drop to the remote enclosures shall not exceed three (3) percent of the rated voltage.

2.04 CONTROL

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A. Instant On/Off Capabilities: System shall provide for instant on/off of luminaires.

B. Dimming: Advanced control for a full range of theatrical effects and dimming. System shall provide trouble-free communication interface to allow DMX control. Provide DMX touchscreen panel controller, and/or other optional controllers.

C. Remote Lighting Control System: System shall allow owner and users with a security code to schedule on/off system operation via a web site, phone, fax or email up to ten years in advance. Manufacturer shall provide and maintain a two-way TCP/IP communication link. Trained staff shall be available 24/7 to provide scheduling support and assist with reporting needs. The owner may assign various security levels to schedulers by function and/or events. This function must be flexible to allow a range of privileges such as full scheduling capabilities for all events to only having permission to execute "early off" commands by phone. Scheduling tool shall be capable of setting curfew limits. Controller shall accept and store 7-day schedules, be protected against memory loss during power outages, and shall reboot once power is regained and execute any commands that would have occurred during outage.

D. Remote Monitoring System: System shall have capability to remotely diagnosis any individual driver outage and detect remotely power loss to the fixtures.

E. Management Tools: Manufacturer shall provide a web-based database and dashboard tool of actual field usage and provide reports by facility and user group. Dashboard shall also show current status of luminaire outages, control operation and service. Mobile application will be provided suitable for IOS, Android and Blackberry devices. Hours of Usage: Manufacturer shall provide a means of tracking actual hours of usage for the lighting system that is readily accessible to the owner.
   1. Cumulative hours: shall be tracked to show the total hours used by the facility
   2. Report hours saved by using early off and push buttons by users.

F. Communication Costs: Manufacturer shall include communication costs for operating the controls and monitoring system for a period of 10 years.

PART 3 – EXECUTION

3.01 DELIVERY TIMING

A. Delivery Timing Equipment On-Site: The equipment must be on-site 8-10 weeks from receipt of approved submittals and receipt of complete order information.

3.02 FIELD QUALITY CONTROL

A. Manufacturer shall provide a factory trained project manager to be on-site during delivery and installation of equipment.

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B. Illumination Measurements: Upon substantial completion of the project and in the presence of the Contractor, Project Engineer, Owner's Representative, and Manufacturer's Representative, illumination measurements shall be taken and verified. The illumination measurements shall be conducted in accordance with IESNA LM-5-04.

C. Field Light Level Accountability
1. Light levels are guaranteed not to fall below the target maintained light levels for the entire warranty period of 10 Years.
2. The contractor/manufacturer shall be responsible for an additional inspection one year from the date of commissioning of the lighting system and will utilize the owner's light meter in the presence of the owner.

D. Correcting Non-Conformance: If, in the opinion of the Owner or his appointed Representative, the actual performance levels including footcandles and uniformity ratios are not in conformance with the requirements of the performance specifications and submitted information, the Manufacturer shall be required to make adjustments to meet specifications and satisfy Owner.

3.04 REFERENCES

A. Manufacturer must have over 15 year of TV sports lighting history. Manufacturer must have completed over 10 arenas with their lighting product over the last 15 years.

3.05 WARRANTY AND GUARANTEE

A. 10-Year Warranty: Each manufacturer shall supply a signed warranty covering the entire system for 10 years from the date of shipment. Warranty shall guarantee specified light levels. Manufacturer shall maintain specifically-funded financial reserves to assure fulfillment of the warranty for the full term. Warranty does not cover weather conditions events such as lightning or hail damage, improper installation, vandalism or abuse, unauthorized repairs or alterations, or product made by other manufacturers.

B. Maintenance: Manufacturer shall monitor the performance of the lighting system, including on/off status, hours of usage and luminaire outage for 10 years from the date of equipment shipment. Parts and labor shall be covered such that individual luminaire outages will be repaired when the usage of any field is materially impacted. Owner agrees to check fuses in the event of a luminaire outage.

PART 4 – DESIGN APPROVAL

4.0 PRE-BID SUBMITTAL REQUIREMENTS (Non-Musco)

A. Design Approval: The owner / engineer will review pre-bid submittals per section 4.0.B from all the manufacturers to ensure compliance to the specification 10 days prior to bid. If the design meets the design requirements of the specifications, a letter and/or addendum will be issued to the manufacturer indicating approval for the specific design submitted.

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B. Approved Product: Musco's TLC for LED™ is the approved product. All substitutions must provide a complete submittal package for approval as outlined in Submittal Information at the end of this section at least 10 days prior to bid. Special manufacturing to meet the standards of this specification may be required. An addendum will be issued prior to bid listing any other approved lighting manufacturers and designs.

C. All listed manufacturers not pre-approved shall submit the information at the end of this section at least 10 days prior to bid. An addendum will be issued prior to bid; listing approved lighting manufacturers and the design method to be used.

D. Bidders are required to bid only products that have been approved by this specification or addendum by the owner or owner's representative. Bids received that do not utilize an approved system/design, will be rejected.

END OF SECTION 16520

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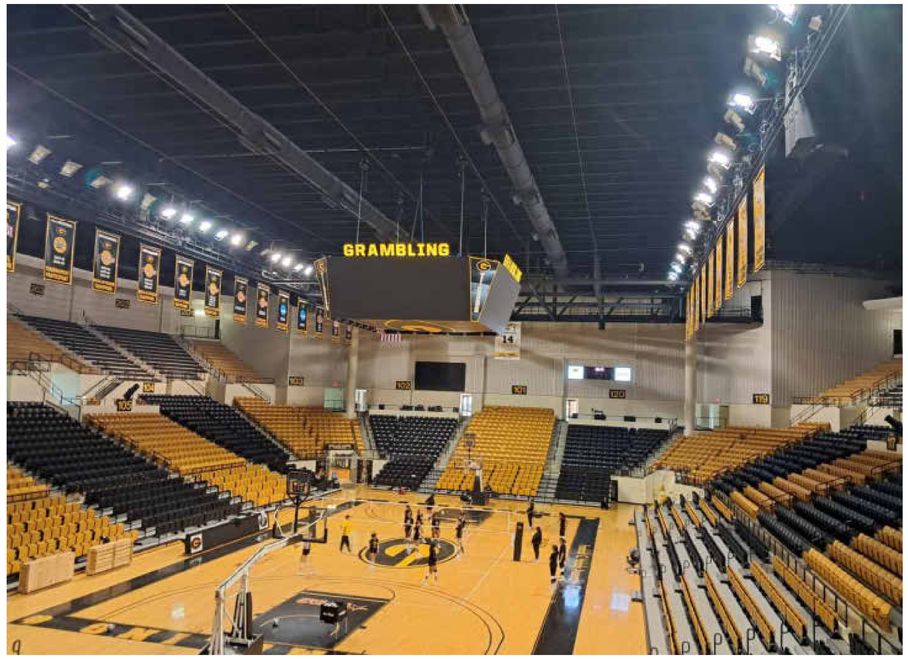
25-030.2 - GRAMBLING STATE UNIVERSITY'S FREDRICK C. HOBDY ASSEMBLY CENTER - MAIN GYMNASIUM LIGHTING UPGRADE

GRAMBLING, LOUISIANA

CONSTRUCTION DOCUMENT SET - MARCH 6. 2026



PROJECT INFO

PROJECT
UPGRADING THE HOBDY ASSEMBLY CENTER'S LIGHTING SYSTEM FROM ITS CURRENT CONFIGURATION TO MODERN, ENERGY-EFFICIENT LED TECHNOLOGY FOR: GRAMBLING STATE UNIVERSITY FREDRICK C. HOBDY ASSEMBLY CENTER. GRAMBLING, LOUISIANA
ARCHITECT'S PROJECT NUMBER: 25-030.1

PROJECT LOCATION
FREDRICK C. HOBDY ASSEMBLY CENTER
GRAMBLING STATE UNIVERSITY

PROXIMITY MAPS

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E3.5	ELECTRICAL PHOTOMETRICS 6
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CIVIL
NOT APPLICABLE

STRUCTURAL
NOT APPLICABLE

MECHANICAL/ELECTRICAL/PLUMBING
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PROJECT:
MAIN GYMNASIUM LIGHTING UPGRADE
GRAMBLING STATE UNIVERSITY'S FREDRICK C. HOBDY ASSEMBLY CENTER
GRAMBLING, LOUISIANA

CONSTRUCTION DOCUMENTATION

PROJECT ARCHITECT: WILLIAM MCELROY
PROJECT NUMBER: 25-030.2
DATE: 3/6/2026
DRAWN BY: GC
CHECKED BY: CL

No.	Description	Date

SEAL:
2026-03-06

SHEET TITLE:
COVER

SHEET NUMBER
G0.00

ABBREVIATIONS SYMBOLS

∠	ANGLE
℄	CENTERLINE
⊏	CHANNEL
⊥	PERPENDICULAR
⊓	PLATE
Φ	ROUND

ABBREVIATIONS

A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ABV	ABOVE
AC	ACCOUSTICAL
ACC	ACCESS
ACFL	ACCESS FLOOR
ACP	ACCORDIAN PARTITION
ACPL	ACCOUSTICAL PLASTER
ACT	ACCOUSTICAL TILE
AD	AREA DRAIN
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AFS	ABOVE FINISH SLAB
AGG	AGGREATE
ALT	ALTERNATE
ALUM	ALUMNIUM
ANC	ANCHOR, ANCHORAGE
ANOD	ANODIZED
APMR	AS PER MFR RECOMMENDATION
APPROX	APPROXIMATE
ARCH	ARCHITECT (URAL)
ASB	ASBESTOS
ASPH	ASPHALT
AUTO	AUTOMATIC
B/U	BUILT UP
BBD	BULLETIN BOARD
BD	BOARD
BIT	BITUMINOUS
BKR	BACKER
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCK
BM	BEAM
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BPL	BEARING PLATE
BRG	BEARING
BRK	BRICK
BRZ	BRONZE
BSMT	BASEMENT
BW	BOTH WAY
CAB	CABINET
CB	CATCH BASIN
CBT	CHALK BOARD
CEM	CEMENT
CF	CUBIC FOOT
CFL	COUNTERFLASHING
CG	CORNER GUARD
CHAM	CHAMFER
CI	CAST IRON
CIP	CAST-IN-PLACE
CIR	CIRCLE
CJ	CONTROL JOINT
CLG	CEILING
CLK	CALK(ING), CAULK(ING)
CLO	CLOSET
CLR	CLEAR(ANCE)
CLS	CLOSURE
CMBD	CEMENTITIOUS BOARD
CMU	CONCRETE MASONRY UNIT
CNTRSK	COUNTERSINK
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESS(ED)(ION)
COMPO	COMPOSITION, COMPOSITE
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUE
CONTR	CONTRACT, CONTRACTOR
CORR	CORRIDOR
CORUG	CORRUGATED
CPR	COPPER
CPT	CARPET
CSE	COURSE (S)
CSMT	CASEMENT
CST	CAST STONE
CT	CERAMIC TILE
CTR	COUNTER
CY	CUBIC YARD
D	DRAIN
DA	DOUBLE ACTIONG
DBL	DOUBLE
DEM	DEMOLISH, DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DMT	DEMOUNTABLE
DN	DOWN
DP	DAMP-PROOFING
DPR	DAMPER
DR	DOOR
DS	DOWNSPOUT
DT	DRAIN TILE
DWG	DRAWING
E	EAST
EA	EACH
EB	EXPANSION BOLT
EDF	ELEC. DRINKING FOUNTAIN
EIFS	EXTERIOR INSULATION SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EMER	EMERGENCY
EP	EPROXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EW	EACH WAY
EXC	EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED(D)
EXT	EXTERIOR
FA	FIRE ALARM
FAB	FABRICATION
FAR	FLOOR AREA RATIO
FB	FACE BRICK
FBRK	FIRE BRICK
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHB	FREEZEPROOF HOSE BIB
FHS	FIRE HOSE STATION
FIN	FINISH (ED)
FIXT	FIXTURE
FLASH	FLASHING
FLG	FLASHING
FLM	FULL LENGTH MIRROR
FLOR	FLUORESCENT
FLR	FLOOR(ING)
FND	FEMININE NAPKIN DISP.
FNT	FOUNTAIN
FO	FINISH OPENING
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FPL	FIREPLACE
FR	FRAME (D), (ING)
FRT	FIRE-RETARDANT
FT	FOOT
FURN	FURNITURE
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GBL	GLASS BLOCK
GC	GENERAL CONTRACT(OR)
GD	GRADE, GRADING
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GFRP	GLAS FIBER REINFORCED PLASTER
GL	GLASS, GLAZNG, GLAZED
GND	GROUND
GOVT	GOVERNMENT
GRFL	GROUND FLOOR
GT	GROUT
GVL	GRAVEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
GYP BD	GYPSUM BOARD
HB	HOSE BIB
HC	HOLLOW CORE
HCP	HANEICAP (PED)
HD	HEAVY DUTY
HDG	HOT DIPPED GALVANIZED
HDO	HIGH DENSITY OVERLAY
HDR	HEADER
HDW	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HSS	HOLLOW STRUCTURAL SECTION
HTG	HEATING
HVAC	HEATING, VENTILATIING, AND AIR CONDITIONING
HWH	HOT WATER HEATER
HYD	HYDRANT
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER OR INTERIOR DESIGN (ER)
IE	INVERT ELEVATION
INCIN	INCINERATOR
INFILTR	INFILTRATION
INFO	INFORMATION
INSTRUM	INSTRUMENT(ATION)
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JAN	JANITOR
JF	JOINT FILLER
JST	JOIST
JT	JOINT
KIT	KITCHEN
KO	KNOCK OUT
KPL	KICKPLATE
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE(D)
LAM GL	LAMINATED GLASS
LAT	LAY-IN ACOUSTICAL TREATMENT
LAV	LAVATORY
LB	POUND
LBL	LABEL
LBT	LAG BOLT
LF	LINEAR FEET
LH	LEFT HAND
LL	LIVE LOAD
LN	LIINE
LP	LOW POINT
LT	LIGHT
LTL	INTEL
LVR	LOUVER (ED)
LVT	LUXURY VINYL TILE
LWC	LIGHTWEIGHT CONC
MAINT.	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBR	MEMBER
MC	MEDICINE CBINET
MECH	MECHANICAL
MEMB	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MFD	MANUFACTURED
MFGR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLWK	MILLWORK
MO	MASONRY OPENING
MOIST	MOISTURE
MOT	MOTOR(IZED)
MOV	MOVABLE
MRBL	MARBLE
MT	METAL THRESHOLD
MTD	MOUNTED
MTL	METAL
MULL	MULLION
MWK	MILLWORK
N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NIC	NOT IN CONTRCT
NMT	NON-METALLIC
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COFFICIENT
NTS	NOT TO SCALE
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHD	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING(S)
OPP	OPPOSITE
OPR	OPERABLE
ORD	OVERFLOW ROOF DRAIN
ORNA	ORNAMENTAL
OS	OUTSIE
OVFL	OVERFLOW
PAR	PARALLEL
PBD	PARITICLE BOARD
PCC	PRECAST CONCRETE
PEDTR	PEDESTRIAN
PL	PROPERTY LINE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLF	PER LINEAR FOOT
PLG	PLATE GLASS
PLSTC	PLASTIC
PLYWD	PLYWOOD
PNL	PANEL
PNT	POINT
POLYST	POLYSTRENE
PORT	PORTABLE
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRTECN	PROTECTION
PSF	POUND/SQUARE FOOT
PSI	POUND/SQUARE INCH
PT	PAINT (ED)
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER TOWEL RECEPTOR
PV	PAVE(D),(ING)
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
QTR	QUARTER
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RBR	RUBBER
RCP	REINF CONCRETE PIPE
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
RDR	READER
REC	RECESS (ED)
RECES	RECESSED
RECPT	RECEPTACLE
REF	REFER(ENCE)
REFL	REFLECTED
REFR	REFRIGERATOR
REINF	REINFORCED(D)(ING)(MENT)
REQD	REQUIRED
RES	RESILIENT
RESIS	RESIST(ANT)(IVE)
RET	RETURN
REV	REVISION(S), REVISED
RF	ROOFING
RFD	ROOF DECK
RFG	ROOFING
RH	ROOF HATCH
RHD	RIGHT HAND
RHK	ROBE HOOK
RL	RAIL (ING)
RM	ROOM
RM	
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RVT	RIVET
S	SOUTH
SAP	SOUND ABSORPTION PANEL
SC	SOLID CORE
SCH	SCHEDULE
SCN	SCREEN
SCR	SCRIBE
SCW	SOLID CORE WOOD
SD	SOAP DISPENSER
SEC	SECTION
SECUR	SECURITY
SEL	SEALER
SF	SQUARE FEET
SFGL	SAFETY GLASS
SG	SINGLE
SH	SHELF, SHELVING
SHORG	SHORING
SHT	SHEET
SHTH	SHEATING
SIM	SIMILAR
SKL	SKYLIGHT
SLNT	SEALANT
SMF	SEAMLESS FLOOR
SND	SANITARY NAPKIN DISPOSAL
SP	SOUNDPROOF
SPCR	SPACER
SPEC	SPECIFICATION(S)
SPKR	SPEAKER
SPL	SPECIAL
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSTL	STEEL
ST	STREET
ST	STAIN
STA	STATION
STC	STUCCO
STD	STANDARD
STG	SEATING
STL	STAINLESS STEEL
STL	STEEL
STOR	STORAGE
STR	STRUCTURAL
STRFR	STOREFRONT
STRUCT	STRUCTURAL
SURF	SURFACE
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMBOL
SYMM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM(S)
T	TREAD
T&B	TOP & BOTTOM
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TBD	TACKBOARD
TC	TERRA COTA
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPORARY
TERR	TERRAZZO
TH	THRESHOLD
THK	THICK (NESS)
TLT	TOILET
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOFF	TOP OF FINISH FLOOR
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISP
TPH	TOILET PAPER HOLDER
TR	TRANSOM
TRAF	TRAFFIC
TRANS	TRANSPARENT
TRTD	TREATED
TSTAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
U/C	UNDERCUT
U/S	UNDERSIDE
UCTR	UNDER COUNTER
UNDRLAY	UNDERLAYMENT
UNF	UNFINISHED
UNGL	UNGLAZED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
US	UTILITY SHELF
UTIL	UTILITY
VAL	VALLEY
VAR	VARIES
VAT	VINYL ASBESTOS TILE
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VEH	VEHICLE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIN	VINYL
VNR	VENEER
VT	VINYL TILE
VTR	VENT THRU ROOF
VWC	VIINYL WALL COVER
W	WEST
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WDT	WIDTH, WIDE
WDW	WINDOW
WF	WIDE FLANGE
WI	WROUGHT IRON
WP	WATERPROOFING
WPM	WATERPROOF MEMBRANE
WR	WASTE RECEPTOR
WSCT	WAINSCOT
WT	WEIGHT
WTRPRF	WATERPROOFING
WWM	WELDED WIRE MESH
ZN	ZONE

DRAWING SYMBOLS

- COLUMN GRID REFERENCE NUMBER
- COLUMN GRID LINES AND REFERENCE NUMBER
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- NEW PARTITION

LOCATION ON SHEET WHERE ELEVATION IS SHOWN
DIRECTION OF ELEVATION
A11.XX — SHEET NUMBER WHERE ELEVATION IS SHOWN

INTERIOR AND EXTERIOR ELEVATION MARKER

DIRECTION OF ELEVATION
LOCATION ON SHEET WHERE ELEVATION IS SHOWN
A11.XX — SHEET NUMBER WHERE ELEVATION IS SHOWN

BUILDING / WALL SECTION MARKER

DETAIL NUMBER
SHEET NUMBER
XX.XXX — DESCRIPTION OF SIMILAR OR OPPOSITE
SIM
AREA TO BE DETAILED

DETAIL MARKER

DIRECTION OF ELEVATION
LOCATION ON SHEET WHERE ELEVATION IS SHOWN
A11.XX — SHEET NUMBER WHERE ELEVATION IS SHOWN

CASEWORK ELEVATION MARKER

REVISION REFERENCE NUMBER
REVISION CLOUD DEPICTING AREA REVISED

REVISION MARKER

NAME → ROOM NAME
1234 → ROOM NUMBER

1 A3A — PARTITION TYPE REFERENCE
SOUND ATTENUATION (PARTITION ONLY)
FIRE RATING - HOURS

XXX — DOOR REFERENCE NUMBER (REFER TO DOOR SCHEDULE)

XX — WINDOW REFERENCE NUMBER (REFER TO WINDOW SCHEDULE)

MW01 — MILLWORK REFERENCE NUMBER (REFER TO MILLWORK SCHEDULE)

MILLWORK
MILLWORK ABOVE

ELEVATION DATUM REFERENCE

+6" / 0" — FLOOR ELEVATION TRANSITION

MATCH LINE SEE XX/XX — MATCH LINE SYMBOL

ALIGN — ALIGN WITH ESTABLISHED / ADJACENT SURFACES

TRUE NORTH

PLAN NORTH

MATERIALS IN SECTION

- ACOUSTICAL CEILING TILE
- ALUMINUM
- BRICK
- CARPET
- CONCRETE
- CONCRETE MASONRY UNIT
- CUT STONE
- EARTH
- FABRIC WRAPPED PANEL
- GLASS
- GRAVEL
- GYPSUM PLASTER
- INSULTATION (LOOSE OR BATT)
- INSULATION (RIGID)
- METAL
- PLASTIC
- PLYWOOD
- PRE-CAST PANELS
- SAND OR GROUT
- STONE
- WOOD (FINISHED)
- WOOD (CONTINUOUS MEMBER)
- WOOD (INTERRUPTED MEMBER

GENERAL PROJECT NOTES

1. IF THE CONTRACTOR, IN THE COURSE OF THE WORK, FINDS OR SUSPECTS ANY DISCREPANCY BETWEEN THE DRAWINGS, AND THE PHYSICAL CONDITIONS OF THE SITE OR WORK, OR ANY ERRORS OR OMISSIONS IN THE CONTRACT DRAWINGS OR SPECIFICATIONS, HE SHALL IMMEDIATELY NOTIFY THE ARCHITECT, IN WRITING, AND THE ARCHITECT SHALL PROMPTLY VERIFY THE SAME, ANY WORK DONE AFTER SUCH DISCOVERY, UNLESS AUTHORIZED, SHALL BE AT THE CONTRACTOR'S RISK.
2. THE CONTRACTOR SHALL, PRIOR TO CONSTRUCTION FLAG ANY AND ALL UTILITY LINES, PIPES, AND CONDUITS, AND USE EXTREME CAUTION WHEN WORKING OVER OR NEAR SUCH LINES. ANY DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR, AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. ALL DIMENSIONS ARE TO FACE OF WALLS, CURBS, OR SURFACES UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY.
5. UTILITY LAYOUTS SHOWN ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL COORDINATE UTILITY LOCATION WITH THE ARCHITECT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR COORDINATING UTILITY PLACEMENT WITH THE APPROPRIATE UTILITIES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL TRASH AND DEBRIS FROM THE PROJECT SITE.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SITE AGAINST VANDALS AND THEFT.
8. THE TERM "TYPICAL" SHALL DENOTE THE SAME OR SIMILAR MANNER OF WORK AND MATERIALS AS DESIGNATED THROUGHOUT THE CONTRACT CONSTRUCTION DRAWINGS AND AS DESCRIBED BY THE PROJECT SPECIFICATIONS IN APPROPRIATE AREAS.
9. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATIONS AND QUANTITIES OF MATERIALS TO BE INSTALLED AND USED.
10. THE CONTRACTOR AND/OR BUILDER WILL ASSUME RESPONSIBILITY OF MAKING ANY CHANGES IN THE CONSTRUCTION PLANS, DRAWINGS, DETAILS, AND SPECIFICATION, AS MAY BE NEEDED, TO ADJUST FOR LOCAL CODE REQUIREMENTS AND CONDITIONS.
11. ALL ITEMS ON THESE PLANS EITHER DRAWN, NOTED OR OTHERWISE IMPLIED SHALL BE CONSIDERED A PART OF THESE PLANS. FOR ANY AREAS OR ITEMS IN QUESTION THE GENERAL CONTRACTOR SHALL CONTACT THE ARCHITECT IN WRITING SEVEN DAYS BEFORE SUBMITTING HIS BID OTHERWISE THE ARCHITECTS INTERPRETATION MUST BE ACCEPTED.
12. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL CONSTRUCT THE PROJECT IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH THE LOCAL JURISDICTION'S CODES.
13. THE CONTRACTOR SHALL COORDINATE WITH ALL SUBCONTRACTORS AND SUPPLIERS AS TO WHO FURNISHES AND WHO FINISHES ITEMS FOR A COMPLETED JOB.
14. ALL PERSONS DESIRING TO SUBMIT A FORMAL BID FOR THE SCOPE OF WORK OUTLINED WITHIN THESE CONSTRUCTION DOCUMENTS SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A FORMAL BID TO FAMILIARIZE THEMSELVES WITH THE SITE. .
15. BRANCHES OFF OF MAJOR GROUPINGS OF UTILITY LINES (ELECTRICAL OR CONDUITS) ARE IMPRACTICAL TO SPECIFICALLY INDICATE ON DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND DIMENSIONS.
16. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING BUILDING DONE DURING LIGHTIND REPLACEMENT. ALL DAMAGES SHALL BE REPAIRED BY GENERAL CONTRACTOR.
17. ALL PERSONS DESIRING TO SUBMIT A FORMAL BID FOR THE SCOPE OF WORK OUTLINED WITHIN THESE CONSTRUCTION DOCUMENTS SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A FORMAL BID TO FAMILIARIZE THEMSELVES WITH THE SITE.

GENERAL DEMOLITION NOTES

1. DRAWINGS OF EXISTING CONDITIONS HAVE BEEN COMPILED FROM EXISTING AVAILABLE DATA SUPPLIED TO THE ARCHITECT AND/OR EITHER GATHERED BY THE ARCHITECT. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, FOR THE ACCURACY OF THE COMPLETENESS OF INFORMATION RECORDED SHALL BE ASSUMED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMISSION TO BID.
2. VERIFY LOCATIONS OF EXISTING ELECTRICAL UTILITIES. LOCATE AND PROTECT UTILITIES TO REMAIN. DISCONNECT, REMOVE BACK TO NEAREST JUNCTION BOX OR PANEL, AS REQUIRED, AND CAP DESIGNATED UTILITIES WITHIN THE DEMOLITION AREA. REFER TO THE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. ALL EXISTING BUILDING UTILITIES SHALL REMAIN IN OPERATION DURING CONSTRUCTION. PROVIDE REROUTING OF UTILITIES SERVING ADJACENT AREAS THAT ARE TO MAINTAIN UNINTERRUPTED SERVICE. ANY TEMPORARY SUSPENSION OF SERVICE SHALL BE COORDINATED AND APPROVED BY UTILITY COMPANIES AND LOCAL OFFICIALS HAVING JURISDICTION NOT LESS THAN TWENTY FOUR (24) HOURS IN ADVANCE.
4. THE DEMOLITION DRAWING KEYNOTES ARE DIAGRAMMATIC AND GENERAL IN NATURE. THE INTENT IS TO ILLUSTRATE THE COMPLETE DEMOLITION OF THE SPACES AS INDICATED UNLESS OTHERWISE NOTED. FIELD VERIFICATION OF EXISTING CONDITIONS AND SPECIFIC QUANTITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. REMOVAL AND DISPOSAL OF DEMOLITION DEBRIS IS THE RESPONSIBILITY OF THE CONTRACTOR. LOCATE AND VERIFY THE HAULING ROUTE, THE STORAGE AREA, AND THE LOCATION OF THE DUMPSTER WITH THE OWNER AND/OR ARCHITECT PRIOR TO THE START OF DEMOLITION. DISPOSAL OF RUBBISH SHALL BE DONE IN A LEGAL MANNER.
6. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY DEMOLISHED ITEM. VERIFY ITEMS TO BE SALVAGED WITH THE OWNER PRIOR TO THE START OF DEMOLITION. REMOVE, PROTECT, CLEAN, REPAIR FOR REFUSE AND TURN OVER SUCH ITEMS AS DIRECTED BY THE OWNER.
7. IN ORDER TO INSTALL SOME OF THE NEW WORK MAY FIND IT NECESSARY FOR THE CONTRACTOR AND HIS SUBCONTRACTORS TO REMOVE AND REPLACE EXISTING WALLS, FLOOR AND/OR CEILINGS IN THE AREAS OF THE BUILDING AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL INCLUDE ALL RELATED COSTS IN HIS BASE BID, WHETHER SHOWN OR IMPLIED ON THE PLANS OR NOT.
8. PROTECT ADJACENT SPACES AND SURFACES DURING DEMOLITION. PATCH AND REPAIR DAMAGED FINISHES, ITEMS AND FIXTURES TO REMAIN AND/OR REPLACE IN KIND TO MATCH EXISTING FROM DAMAGE DURING THE PROGRESS OF THE WORK. PROVIDE TEMPORARY SAFETY BARRIERS REQUIRED BY CODE AND AS INDICATED TO INSURE THE SAFETY OF WORKERS AND THE PUBLIC.
9. PROVIDE DUST BARRIERS AROUND OPENINGS, TO AND FROM THE CONSTRUCTION AREA AS NECESSARY. PROVIDE ALL MEANS NECESSARY TO INHIBIT DUST FROM ENTERING OTHER PORTIONS OF THE FACILITY.
10. PROVIDE ADEQUATE SHORING PROTECTIVE MEASURES AS REQUIRED TO SAFELY EXECUTE THE WORK IN THE CONSTRUCTION AREA AND THE AREAS ADJACENT TO THE CONSTRUCTION AREA. CEASE OPERATIONS AND NOTIFY THE ARCHITECT IMMEDIATELY IF THE STRUCTURE APPEARS TO BE ENDANGERED. DO NOT RESUME OPERATIONS UNTIL CORRECTIVE MEASURES HAVE BEEN TAKEN.
11. CONTRACTOR SHALL MAINTAIN REQUIRED MEANS OF EGRESS AND ENSURE THAT EXIT ROUTES ARE SIGNED, LIGHTED, AND PROTECTED IN ACCORDANCE WITH CODE REQUIREMENTS. RELOCATED EXISTING AND/OR PROVIDE SMOKE PROTECTORS AND LIFE SAFETY EQUIPMENT FOR ADEQUATE COVERAGE.
12. ALL PATCHING OF EXISTING WORK TO REMAIN SHALL MATCH FINISH PER SCHEDULE OR WHERE UNSCHEDULED TO MATCH EXISTING FINISHES TO REMAIN, AND SHALL MEET OR EXCEED FIRE RATING INDICATED ON FLOOR PLAN AND ARE REQUIRED BY THE STATE FIRE MARSHALL AND APPLICABLE CODES.
13. CONTRACTOR IS RESPONSIBLE FOR BUILDING SECURITY DURING ALL PHASES OF CONSTRUCTION. PROTECT ALL OPENINGS FROM WEATHER CONDITIONS AND SECURE THEM TO PREVENT VANDALISM.
14. DO NOT PERFORM WORK THAT WILL VOID WARRANTIES OF EXISTING WEATHER EXPOSED OR MOISTURE RESISTANT ELEMENTS WITHOUT PRIOR APPROVAL FROM THE OWNER.
15. ARCHITECT ASSUMES NO RESPONSIBILITY RELATING TO TOXIC MATERIALS, INCLUDING ASBESTOS, AND ASSUMES NO RESPONSIBILITY TO ITS EXISTENCE OR REMOVAL.
16. CONTRACTOR IS RESPONSIBLE TO VISIT THE PROJECT SITE PRIOR TO BID AND BECOME FAMILIAR WITH ALL VISIBLE EXISTING CONDITIONS. SUBMISSION OF BID WILL BE CONSTRAINED AS CONTRACTORS STATEMENT THAT SITE VISIT HAS OCCURRED. NO CHANGE ORDERS WILL BE PAID FOR COORDINATION WITH VISIBLE EXISTING CONDITIONS.
17. CONFORM TO ALL CODES AND EXECUTE WORK ONLY WHICH IS IN CONFORMANCE.
18. KEEP CLEAN ALL EXISTING SPACES AND PROPERTIES ADJACENT TO DEMOLITION/CONSTRUCTION AREAS. ANY DEBRIS SHALL BE REMOVED FROM WORK AREAS DAILY. CLOSE OFF ALL EXISTING TO REMAIN OPENINGS, DUCTS, PIES, ETC THROUGHOUT THE PROJECT TO PREVENT DEBRIS/DUST ENTRY.

GENERAL RENOVATION NOTES

1. UNLESS OTHERWISE NOTED OR INDICATED, ALL DIMENSIONS ARE TO THE FINISHED FACE.
2. ALL VERTICAL DIMENSION SHOWN ARE FROM FLOOR SLAB, UNLESS OTHERWISE NOTED.
3. DIMENSIONS SHOWN IN FIGURES TAKES PRECEDNECE OVER DIMENSIONS SCALED FROM DRAWINGS, LARGE SCALE DRAWINGS AND DETAILS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS, MANUFACTURERS SPECIFICATIONS AND INSTRUCTIONS TAKES PRECEDENCE OVER ARCHITECTS INSTRUCTIONS.
4. THE TERM "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISHES IN THE SAME PLANE.
5. THE TERM "TYPICAL" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED.
6. DETAILS ARE USUALLY KEYED AND NOTED "TYPICAL" ONLY ONCE, WHEN THEY FIRST OCCUR AND ARE REPRESENTATIVE FOR ALL SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED.
7. WHERE ELECTRICAL ITEMS ARE TO PENETRATE ANY STRUCTURAL BUILDING ELEMENTS, ROUGH FRAMING, WALL PARTITIONS, CEILINGS, ETC IT IS REQUIRED THAT AN APPROPRIATELY SIZED OPENING OR CLEARANCE BE FURNISHED. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL ITEMS WITH THE CONSTRUCTION DOCUMENTS PRIOR TO THE INSTALLATION OF WORK. ANY CONFLICT OR DISCREPANCY WITH CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION.
8. ALL PENETRATIONS AT RATED CONSTRUCTIONS SHALL BE PROTECTED TO MAINTAIN RATING.
9. WHERE OCCURRING, CONTRACTOR SHALL PATCH AND FINISH ANY AND ALL WALLS AND SURFACES AS NEEDED TO REFURBISH THE SPACE AND REPAIR ALL DAMAGES CAUSED BY CONTRACTOR.
10. WHEN USED ALL NOISE BARRIER BATTS (SOUND INSULATION) AND INSULATION BATTS SHALL BE NON COMBUSTIBLE AND SHALL NOT CONTAIN ANY OZONE DEPLETING COMPOUNDS.
11. ALL NEW CONSTRUCTION MATERIALS SHALL BE 100% ASBESTOS FREE.

ALL CONCEPTS, AND IDEAS CONVEYED IN CONSTRUCTION DOCUMENTS ARE THE PROPERTY OF M3A ARCHITECTURE, PLLC AND ASSOCIATED CONSULTANTS. THEY ARE SOLELY INTENDED FOR USE ON THIS PROJECT. ANY REUSE, REPRODUCTION OR ANY OTHER UNWARRANTED APPLICATION OF THESE DOCUMENTS ARE STRICTLY PROHIBITED WITHOUT THE WRITTEN CONSENT OF M3A ARCHITECTURE, PLLC. DO NOT SCALE FROM DRAWINGS. DIMENSIONS ARE PROVIDED TO ALLOW FOR ACCURATE CONSTRUCTION OF THE PROJECT. QUESTIONS ARISING FROM DIMENSIONS SHOULD BE RESOLVED BY CONTACTING THE ARCHITECT.

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PROJECT:

MAIN GYMNASIUM LIGHTING UPGRADE
GRAMBLING STATE
UNIVERSITY'S FREDRICK C.
HOBDY ASSEMBLY CENTER
GRAMBLING, LOUISIANA

CONSTRUCTION DOCUMENTATION

PROJECT ARCHITECT: WILLIAM MCELROY
PROJECT NUMBER: 25-030.2
DATE: 3/6/2026
DRAWN BY: GCI
CHECKED BY: CL

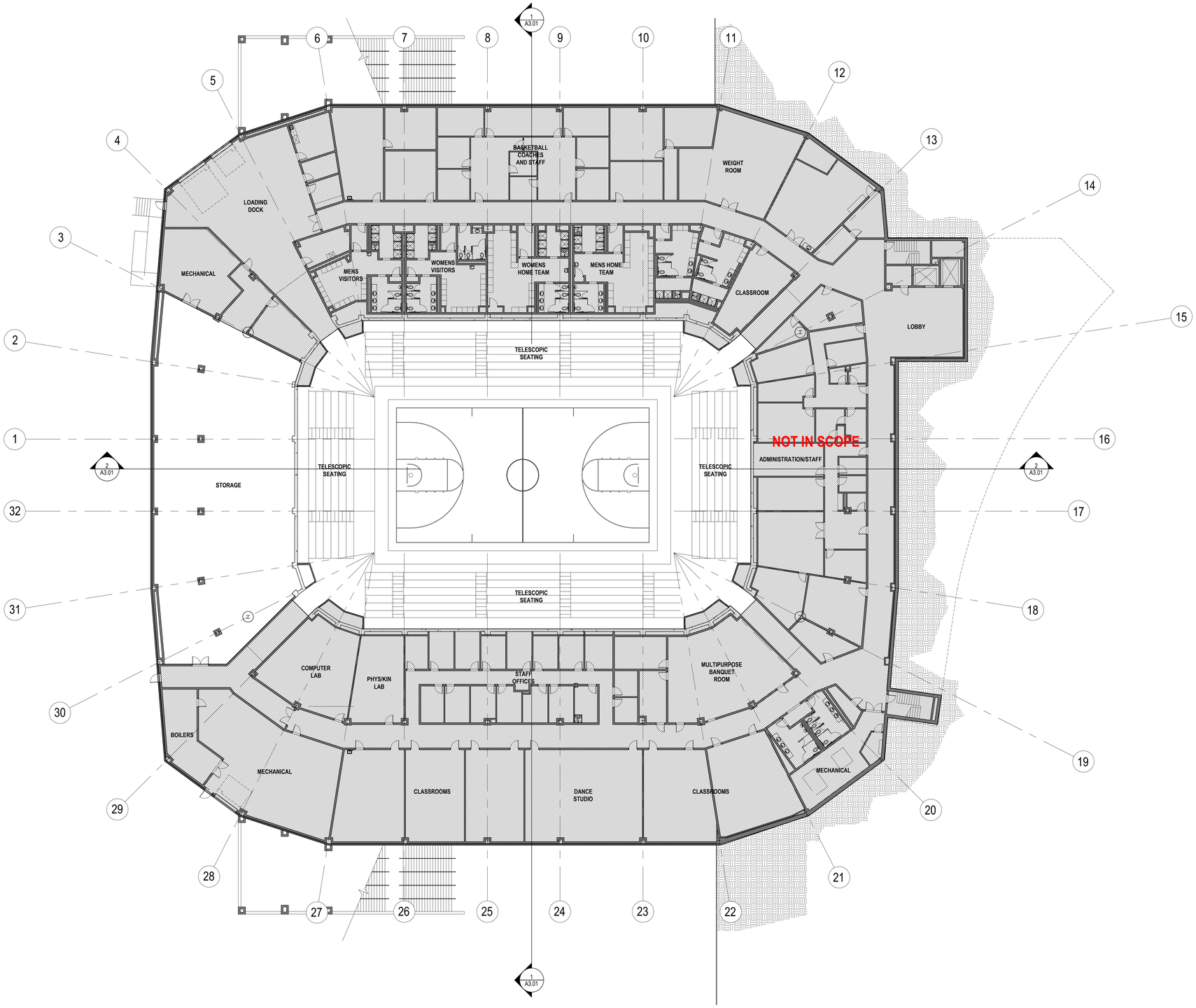
No.	Description	Date

SEAL:

2026-03-06

SHEET TITLE:
GENERAL INFORMATION

SHEET NUMBER
G1.01



1 A - CONSTRUCTION PLAN - LOWER EVENT FLOOR LEVEL

SCALE: 1/16" = 1'-0" REF: 1 / A3.01

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PROJECT:

MAIN GYMNASIUM LIGHTING UPGRADE
GRAMBLING STATE
UNIVERSITY'S FREDRICK C.
HOBDY ASSEMBLY CENTER
GRAMBLING, LOUISIANA

CONSTRUCTION DOCUMENTATION

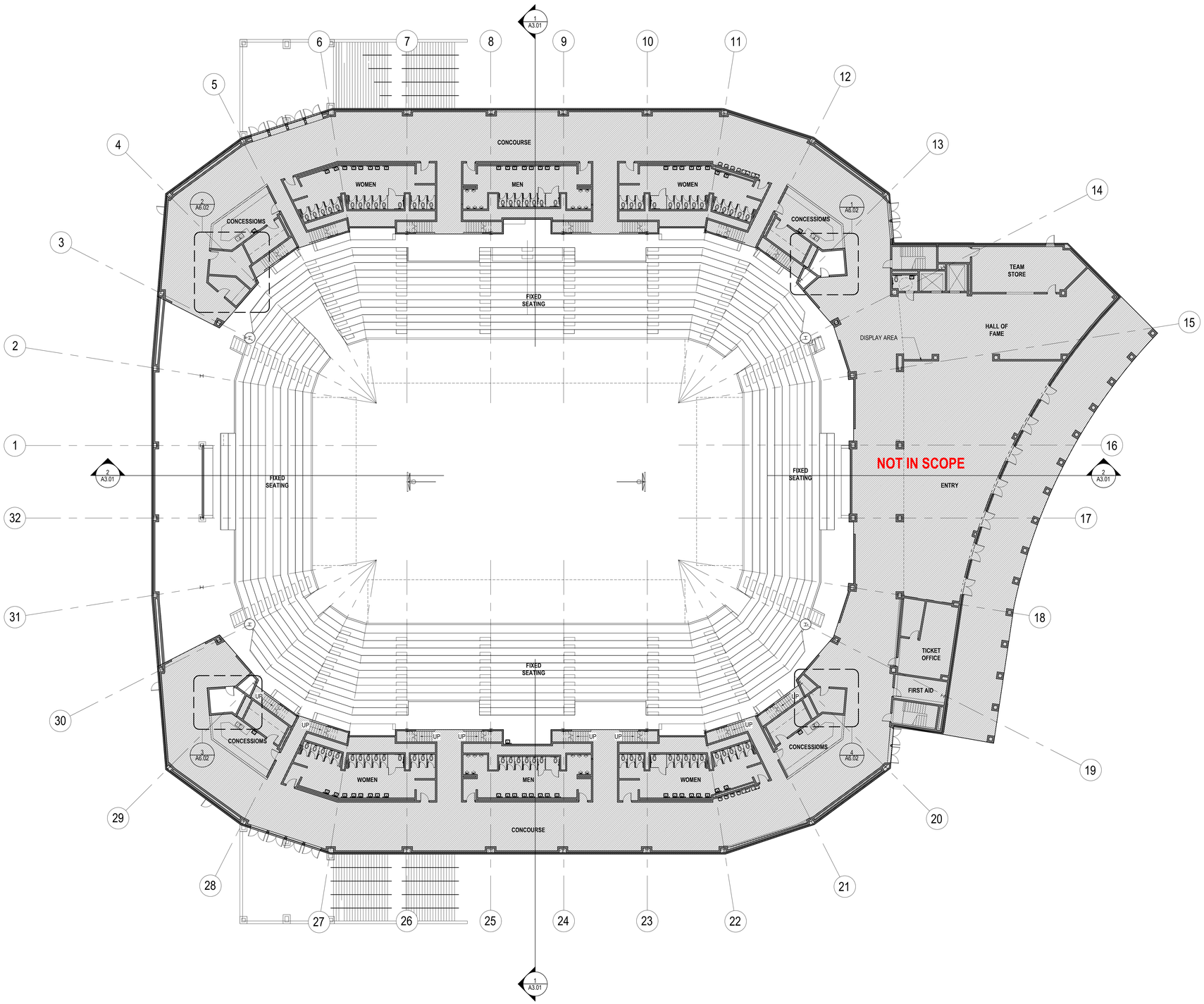
PROJECT ARCHITECT: WILLIAM MCELROY
PROJECT NUMBER: 25-030.2
DATE: 3/6/2026
DRAWN BY: GCI
CHECKED BY: CL

No.	Description	Date

SEAL:

SHEET TITLE:
CONSTRUCTION PLAN - LOWER EVENT FLOOR LEVEL

SHEET NUMBER
A1.01



1 A - CONSTRUCTION PLAN - CONCOURSE LEVEL

SCALE: 1/16" = 1'-0" REF: 1 / A3.01

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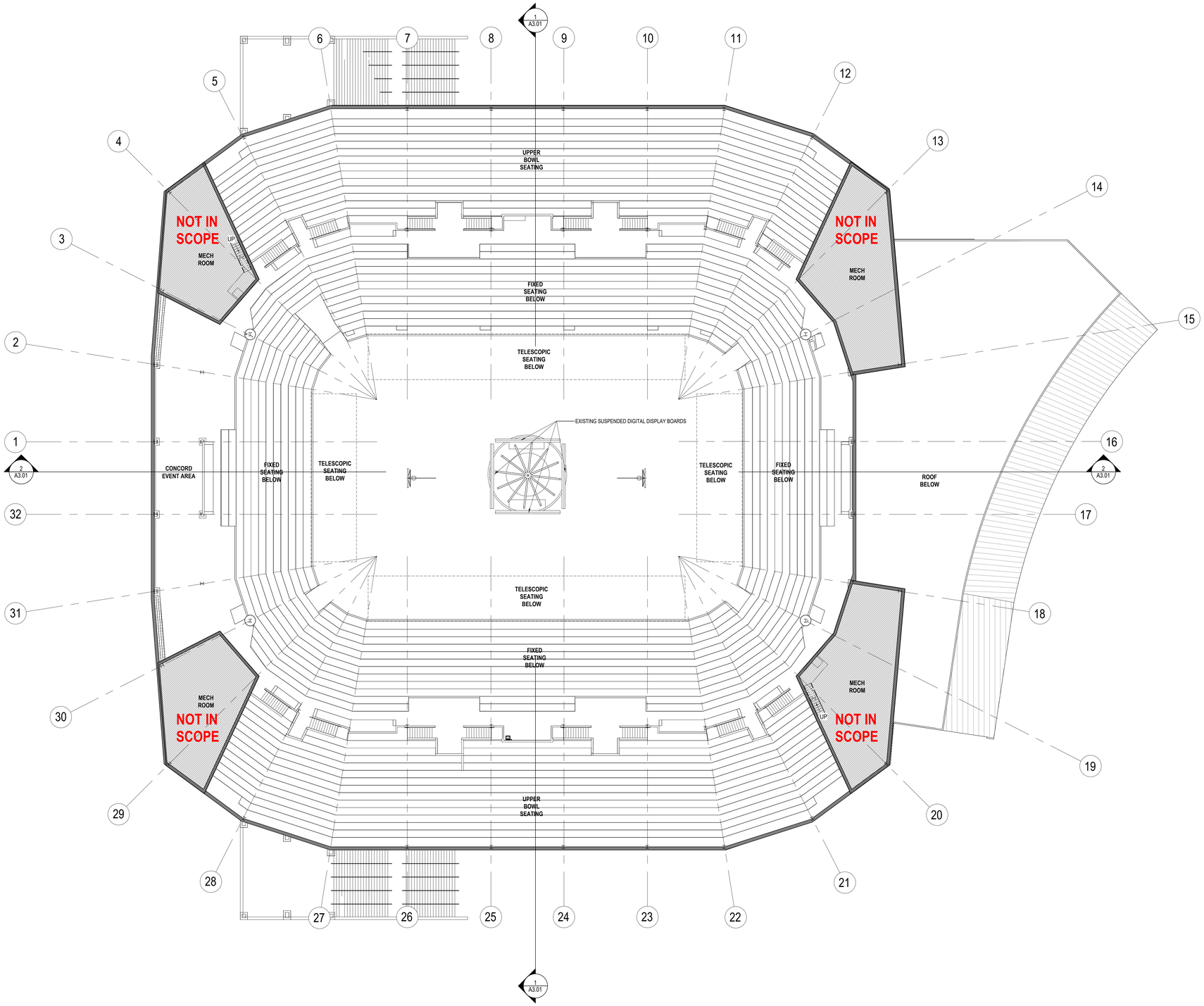
No.	Description	Date

SEAL:

SHEET TITLE:
CONSTRUCTION PLAN - CONCOURSE LEVEL

SHEET NUMBER
A1.02



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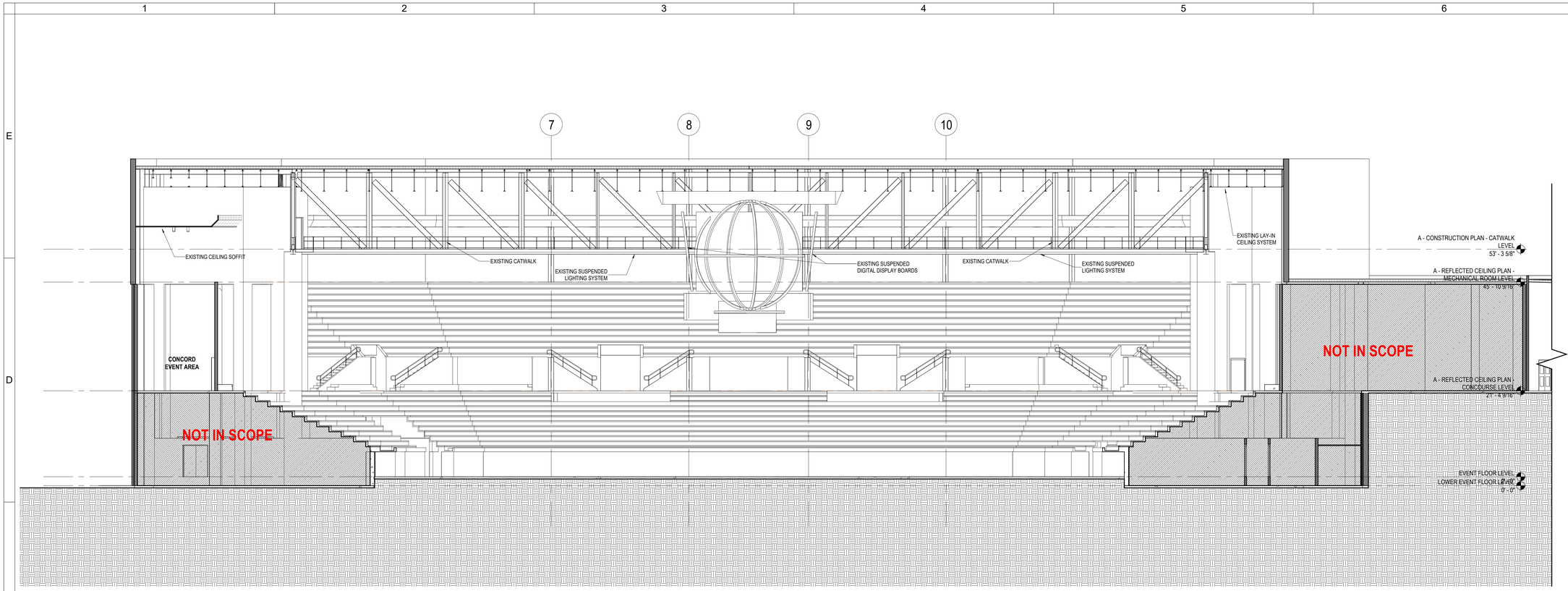
SEAL:

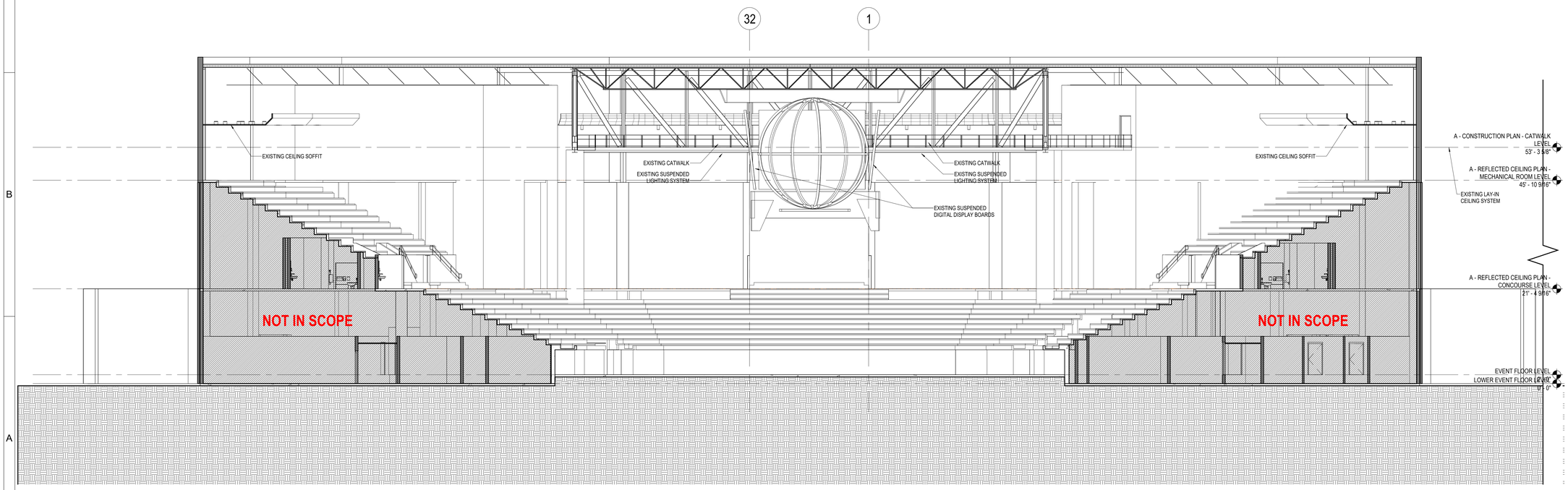
SHEET TITLE:
CONSTRUCTION PLAN - MECHANICAL ROOM LEVEL

SHEET NUMBER
A1.03



2 BUILDING SECTION 2

SCALE: 1" = 10'-0" REF: 1 / A1.01



1 BUILDING SECTION 1

SCALE: 1" = 10'-0" REF: 1 / A1.01

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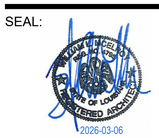

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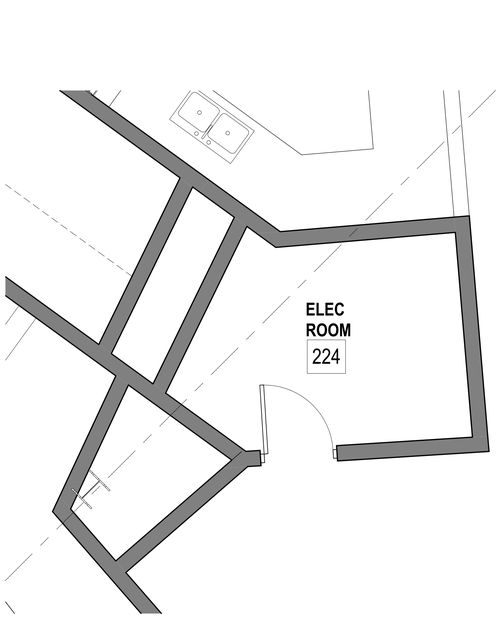
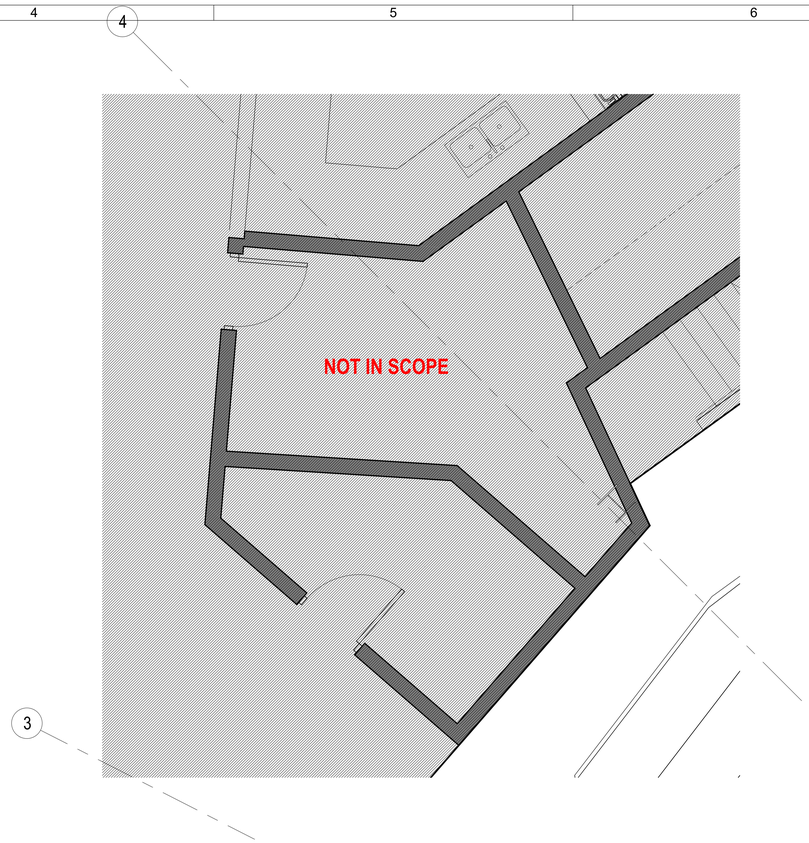
SHEET TITLE:
OVERALL BUILDING SECTIONS

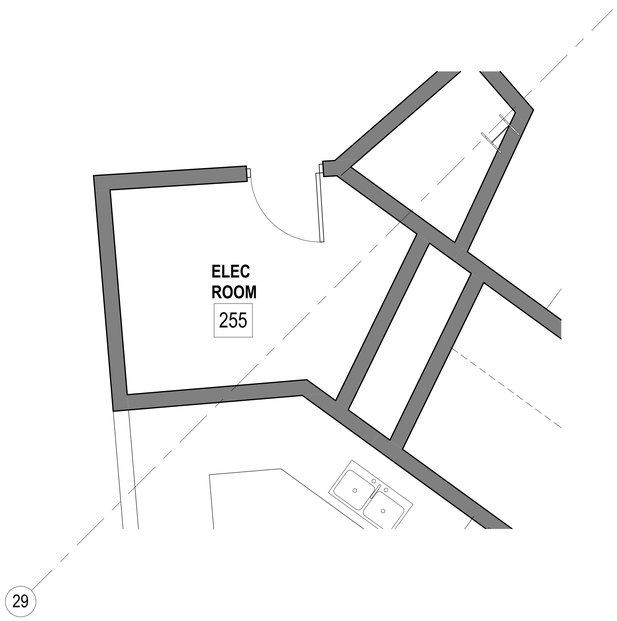
SHEET NUMBER
A3.01



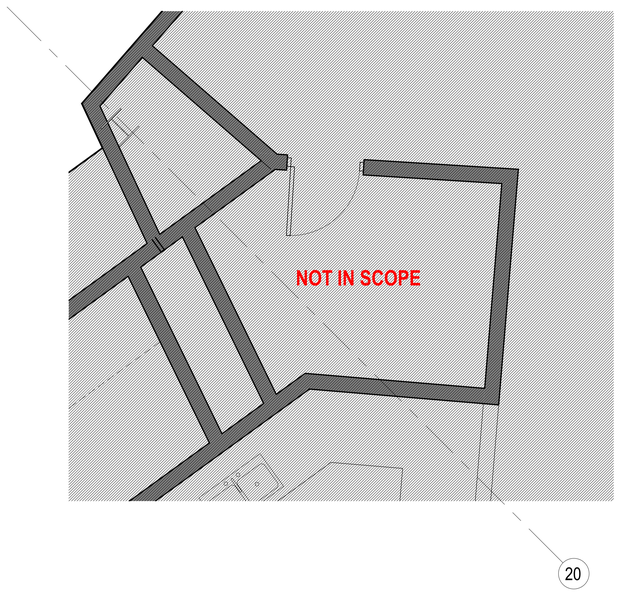
1 A - CONSTRUCTION PLAN - CONCOURSE LEVEL - Callout 1
SCALE: 3/8" = 1'-0" REF: 1 / A1.02



2 A - CONSTRUCTION PLAN - CONCOURSE LEVEL - Callout 2
SCALE: 3/8" = 1'-0" REF: 1 / A1.02



3 A - CONSTRUCTION PLAN - CONCOURSE LEVEL - Callout 3
SCALE: 3/8" = 1'-0" REF: 1 / A1.02



4 A - CONSTRUCTION PLAN - CONCOURSE LEVEL - Callout 4
SCALE: 3/8" = 1'-0" REF: 1 / A1.02

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PROJECT NUMBER: 25-030.2
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No.	Description	Date

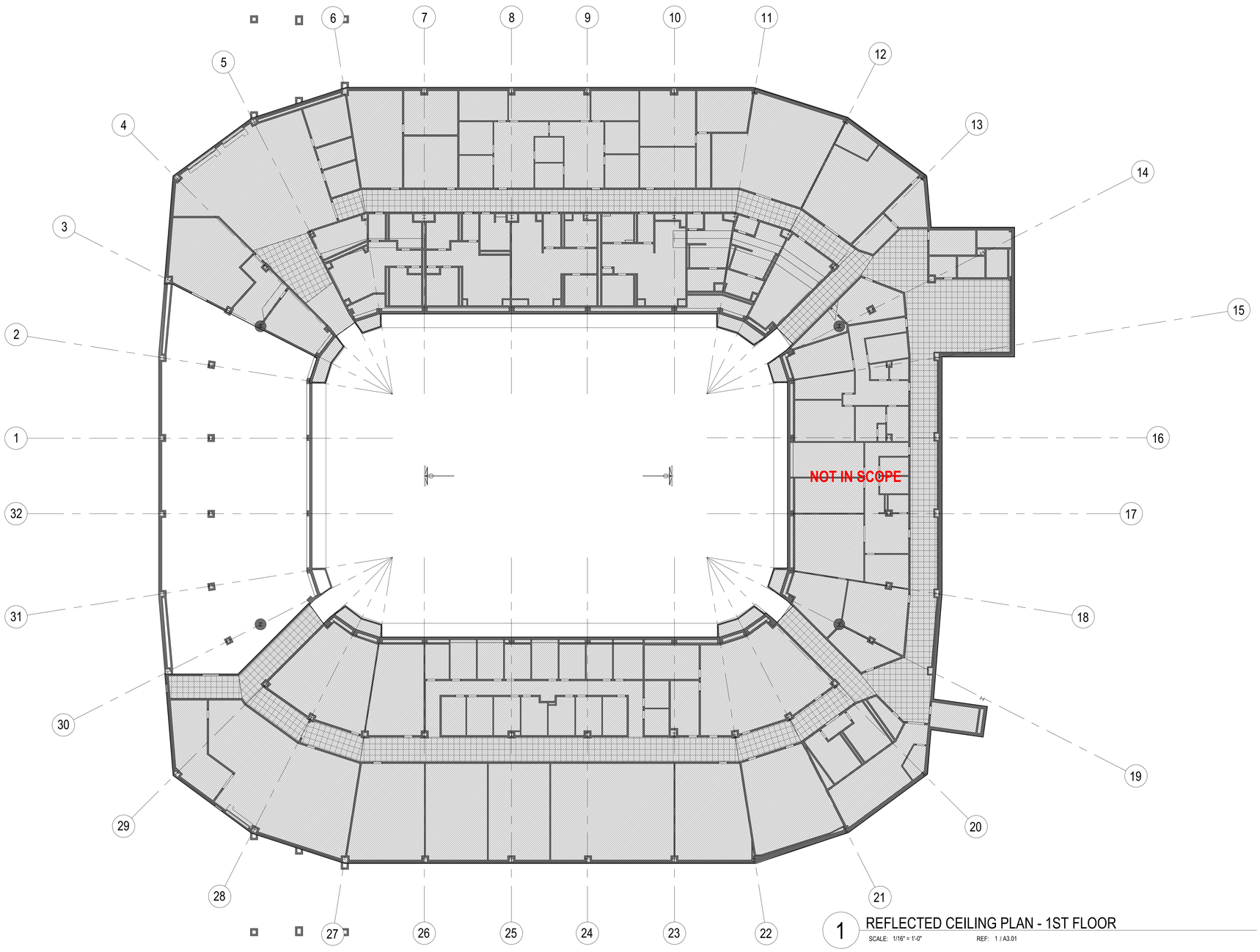
SEAL:

SHEET TITLE:
ENLARGED PLANS

SHEET NUMBER
A6.02

RCP LEGEND

- EXISTING ACOUSTICAL 2X2 CEILING AND GRID
- EXISTING GYPSUM BOARD CEILING
- EXISTING PLASTER CEILING
- EXISTING CANOPY METAL SOFFIT OR CANOPY METAL DECK
- X'-X" AFF. EXISTING FINISH CEILING HEIGHT SYMBOL
- EXISTING 2X4 LAY-IN LIGHT FIXTURE
- RECESSED DOWNLIGHT
- EXISTING RETURN AIR
- EXISTING SUPPLY AIR
- EXISTING ACCESS DOOR



1 REFLECTED CEILING PLAN - 1ST FLOOR
SCALE: 1/16" = 1'-0" REF: 1 / A3.01

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PROJECT NUMBER: 25-030.2
DATE: 3/6/2026
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No.	Description	Date

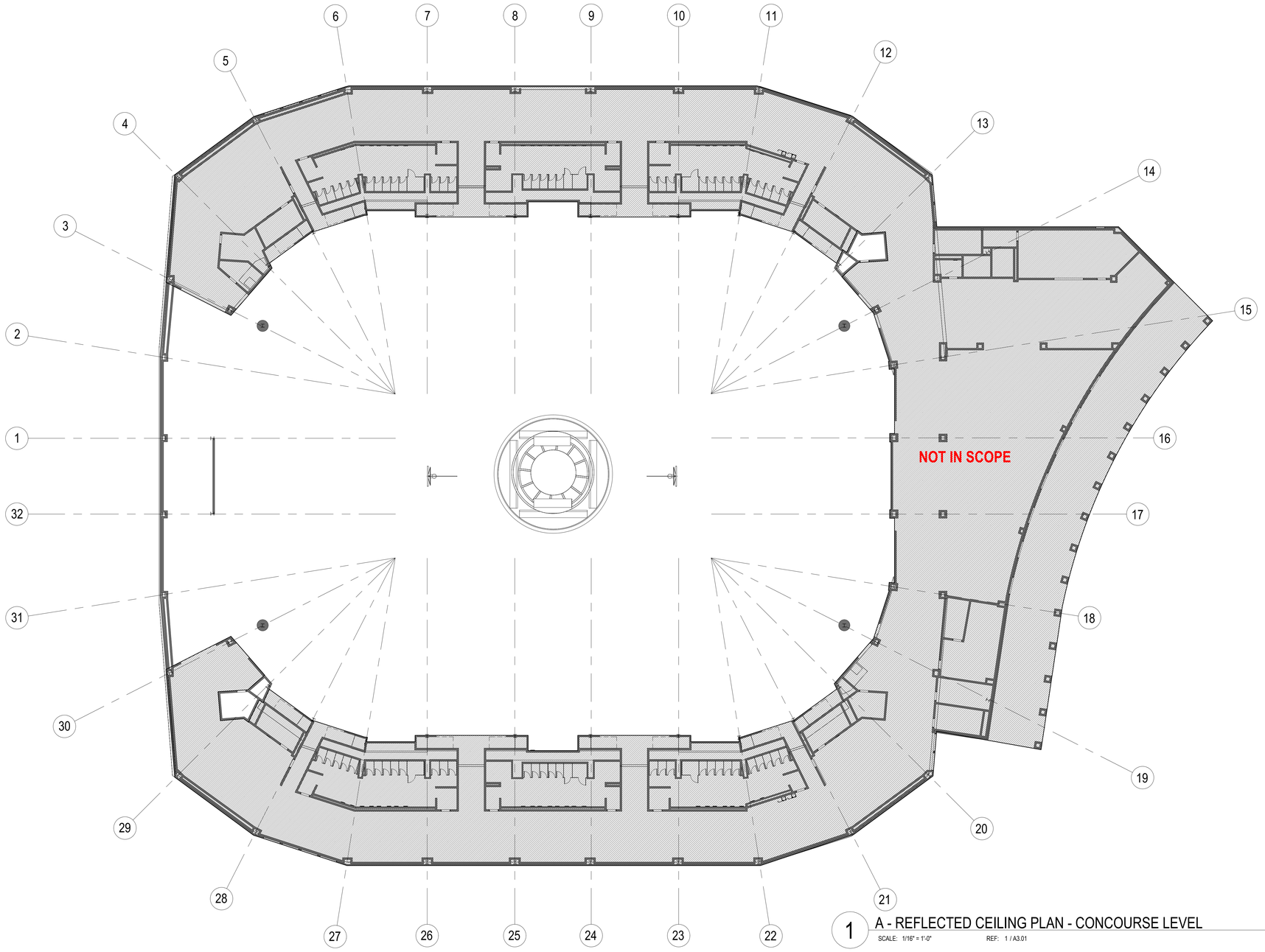
SEAL:

SHEET TITLE:
REFLECTED CEILING PLAN - EVENT FLOOR LEVEL

SHEET NUMBER
A8.01

RCP LEGEND

- EXISTING ACOUSTICAL 2X2 CEILING AND GRID
- EXISTING GYPSUM BOARD CEILING
- EXISTING PLASTER CEILING
- EXISTING CANOPY METAL SOFFIT OR CANOPY METAL DECK
- X'-X" AFF. EXISTING FINISH CEILING HEIGHT SYMBOL
- EXISTING 2X4 LAY-IN LIGHT FIXTURE
- RECESSED DOWNLIGHT
- EXISTING RETURN AIR
- EXISTING SUPPLY AIR
- EXISTING ACCESS DOOR



1 A - REFLECTED CEILING PLAN - CONCOURSE LEVEL
SCALE: 1/16" = 1'-0" REF: 1 / A3.01

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No.	Description	Date

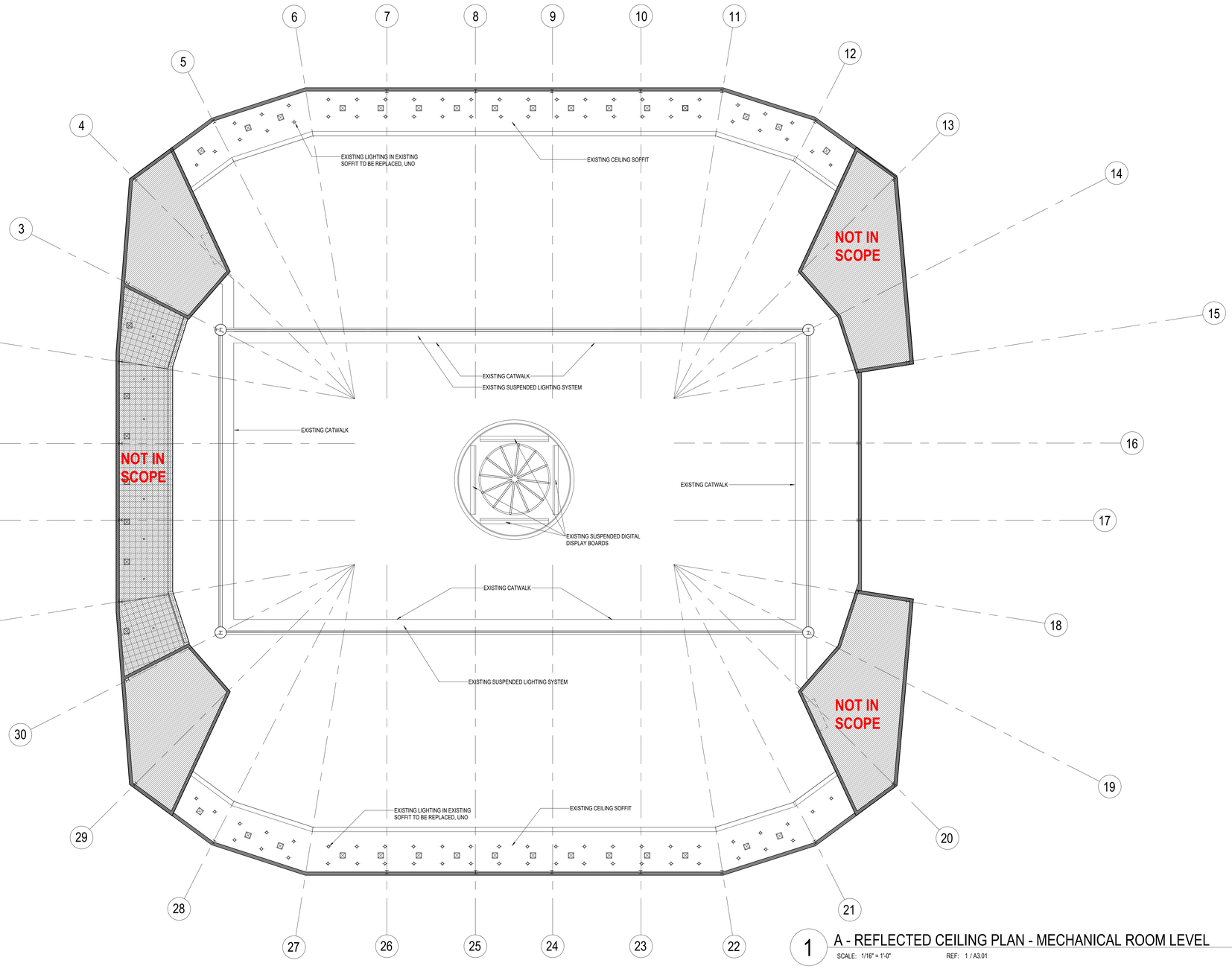
SEAL:
2026-03-06

SHEET TITLE:
REFLECTED CEILING PLAN - CONCOURSE LEVEL

SHEET NUMBER
A8.02

RCP LEGEND

- EXISTING ACOUSTICAL 2X2 CEILING AND GRID
- EXISTING GYPSUM BOARD CEILING
- EXISTING PLASTER CEILING
- EXISTING CANOPY METAL SOFFIT OR CANOPY METAL DECK
- X'-X" AFF. EXISTING FINISH CEILING HEIGHT SYMBOL
- EXISTING 2X4 LAY-IN LIGHT FIXTURE
- RECESSED DOWNLIGHT
- EXISTING RETURN AIR
- EXISTING SUPPLY AIR
- EXISTING ACCESS DOOR



1 A - REFLECTED CEILING PLAN - MECHANICAL ROOM LEVEL

SCALE: 1/16" = 1'-0" REF: 1 / A3.01

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SEAL:

SHEET TITLE:
REFLECTED CEILING PLAN - MECHANICAL ROOM LEVEL

SHEET NUMBER
A8.03

ELECTRICAL SHEET INDEX

E1.0	ELECTRICAL DEMO PLAN
E1.1	ELECTRICAL DEMO PLAN - ZONE B
E2.0	ELECTRICAL LIGHTING PLAN
E2.1	ELECTRICAL LIGHTING PLAN - ZONE B
E2.2	ELECTRICAL DETAILS
E3.0	LIGHTING PHOTOMETRICS 1
E3.1	LIGHTING PHOTOMETRICS 2
E3.2	LIGHTING PHOTOMETRICS 3
E3.3	LIGHTING PHOTOMETRICS 4
E3.4	LIGHTING PHOTOMETRICS 5
E3.5	LIGHTING PHOTOMETRICS 6
E3.6	LIGHTING SYSTEM SCHEDULES

ABBREVIATIONS

A	AMPERE(S)	MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	MOCP	MAXIMUM OVERCURRENT PROTECTION
AFG	ABOVE FINISHED GRADE	MTD	MOUNTED
ALIC	AUTOMATIC LIGHT INTERRUPT CONTOLLER	MTG	MOUNTING
AWG	AMERICAN WIRE GAUGE	NC	NORMALLY CLOSED
BG	BELOW GRADE	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING	NEU	NEUTRAL
BKR	BREAKER	NF	NON-FUSED
C	CONDUIT	NIC	NOT IN CONTRACT
CAT	CATEGORY	NL	NIGHT LIGHT
CKT	CIRCUIT	NO	NORMALLY OPEN
CLG	CLG	OH	OVERHEAD
CORR	CORRIDOR	OHE	OVERHEAD ELECTRICAL
CTRL	CONTROLLER	PB	PULL BOX
D	TO BE DEMOLISHED	PH	PHASE
DWG	DRAWING	PNL	PANEL
E	EXISTING TO REMAIN	PV	PHOTOVOLTAIC
EGC	EQUIPMENT GROUNDING CONDUCTOR	PVC	POLYVINYL CHLORIDE
EMER.	EMERGENCY	QTY	QUANTITY
EMT	ELECTRICAL METALLIC TUBING	RDU	REMOTE DRIVER UNIT
EQ	EQUAL	REQ'D	REQUIRED
EQUIP.	EQUIPMENT	S/N	SOLID NEUTRAL
EXIST.	EXISTING	SPD	SURGE PROTECTIVE DEVICE
FC	FOOTCANDLE	STD	STANDARD
FLA	FULL LOAD AMPERE(S)	TELECOM	TELECOMMUNICATIONS
FOC	FIBER OPTIC CABLE	TGB	TELECOMMUNICATIONS GROUND BUS
G, GND	GROUND	TMGB	TELECOMMUNICATIONS MAIN GROUND BUS
GEC	GROUNDING ELECTRODE CONDUCTOR	TTB	TELECOM TERMINAL BOARD
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GRS	GALVANIZED RIGID STEEL	TYP.	TYPICAL
KWH	1,000 WATT HOURS	UON	UNLESS OTHERWISE NOTED
KVA	1,000 VOLT AMPERES	V	VOLTS
LC	LIGHTING CONTACTOR	VAC	VOLTS ALTERNATING CURRENT
LTG	LIGHTING	VDC	VOLTS DIRECT CURRENT
MCA	MINIMUM CIRCUIT AMPACITY	VFD	VARIABLE FREQUENCY DRIVE
MCB	MAIN CIRCUIT BREAKER		
MCM/KCMIL	1,000 CIRCULAR MILS		

ELECTRICAL SYMBOL LEGEND

(REFER TO DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS)

GENERAL

- (1) KEYNOTE
- A-1,3 CIRCUIT TAG; PANEL AND CIRCUIT DESIGNATION AS INDICATED; E.G. PANEL "A", CIRCUIT #1,3

WIRE, CONDUIT, AND RACEWAY

- ABOVE-SLAB CONDUIT & WIRE/CABLING
- BELOW-SLAB CONDUIT & WIRE/CABLING; 3/4" MINIMUM CONDUIT SIZE UON
- HOMERUN TO PANEL; TICK MARKS INDICATED NUMBER OF WIRES

DISTRIBUTION

- PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT AS NOTED; INSTALL WITH SUFFICIENT WORKING SPACE AND CLEARANCES TO MEET ALL REQUIREMENTS OF NEC SECTION 110.26.

EQUIPMENT CONNECTIONS

(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE)

- FUSED SAFETY DISCONNECT SWITCH; LOCATE WITHIN SIGHT OF THE EQUIPMENT SERVED WITH 36" MINIMUM CLEAR WORKING SPACE IN FRONT OF THE SWITCH; DO NOT MOUNT DIRECTLY TO EQUIPMENT
- (J) JUNCTION BOX

LIGHTING

(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE FOR POWER AND PER THE MANUFACTURER'S SPECIFICATIONS FOR CONTROLS)

- OA LIGHT FIXTURE; UPPERCASE LETTER(S) INDICATE FIXTURE TYPE, LOWERCASE LETTER(S) INDICATE ASSOCIATED CONTROLS ID; FIXTURES WITH HALFSHADED REGION SHALL BE EMERGENCY PROVIDE BATTERY BACKUP OR CONNECT TO EMERGENCY CIRCUIT AS INDICATED; SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTIONS AND MOUNTING TYPES
- X EXIT LIGHT FIXTURE. ARROWS (IF USED) INDICATE DIRECTION. FILLED IN QUADRANT(S) INDICATE NUMBER AND ORIENTATION OF ILLUMINATED FACES. LETTER(S) INDICATE FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION.
- (OS) CEILING MOUNTED OCCUPANCY SENSOR WITH 360° COVERAGE. LOCATE AND INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS; TEST AND ADJUST SENSITIVITY AFTER INSTALLATION AND SET TIME DELAY AS REQUIRED BY THE OWNER
- (VS) CEILING MOUNTED OCCUPANCY SENSOR, AS ABOVE, CONFIGURED FOR VACANCY OPERATION
- (P) PHOTOELECTRIC CELL. EXTERIOR RATED; AIM AND SHIELD SENSOR FROM INTERIOR AND EXTERIOR ARTIFICIAL LIGHT SOURCES
- S SWITCH;
  SUBSCRIPT (WHEN USED):
  NONE - SINGLE POLE TOGGLE SWITCH
  3 - THREE-WAY SWITCH
  D - LINEAR SLIDE DIMMER SWITCH
  3D - THREE-WAY LINEAR SLIDE DIMMER SWITCH
  O - WALL MOUNTED OCCUPANCY SENSOR
  3O - THREE-WAY SWITCH WITH OCCUPANCY SENSOR
  V- VACANCY SENSOR
  VD - VACANCY SENSOR WITH DIMMER SWITCH
  a,b,c etc. - SWITCH ID

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS ADOPTED BY THE AHJ.
2. THE WORDS "PROVIDE" AND "PROVIDED" AS USED HEREIN SHALL BE UNDERSTOOD TO MEAN, "PROVIDE COMPLETE IN PLACE," THAT IS "FURNISH, INSTALL, & CONNECT". EQUIPMENT AND MATERIAL INDICATED TO BE PROVIDED SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE OF THE MOST SUITABLE GRADE FOR THE PURPOSE INTENDED.
3. ROUTE NEW CONDUIT AND WIRING CONCEALED IN WALLS AND CEILING WHERE POSSIBLE. COORDINATE INSTALLATION OF EXPOSED CONDUIT AND WIRING WITH THE ARCHITECT.
4. BEFORE INSTALLATION, CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS TO THE ENGINEER FOR REVIEW COVERING PROPOSED LOCATIONS, MOUNTING, AND ROUTING FOR ALL CONDUITS, SERVICES, FITTINGS, GROUND RODS, SUPPORTS, ETC.
5. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL ROUTE IN MOST DIRECT MANNER AVOIDING ANY OBSTRUCTIONS NOT INDICATED.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GROUNDING OF EQUIPMENT, DISCONNECT SWITCHES, PANELBOARDS, FOUNDATIONAL STEEL, BLDG STEEL, METAL PIPING, AND TELECOMMUNICATION RACKS, ETC. REGARDLESS OF DEPICTION ON PLAN.
7. MATERIALS AND MANUFACTURERS NOTED ON DRAWINGS ARE TO BE USED AS BASIS OF DESIGN TO ESTABLISH QUALITY AND PERFORMANCE STANDARDS AND SHALL BE PROVIDED AS SPECIFIED. SUBSTITUTIONS WILL BE CONSIDERED WHERE SUFFICIENT PRODUCT INFORMATION IS PROVIDED TO MAKE A PROPER EVALUATION. REVIEW OF A SUBSTITUTION IS AT THE SOLE DISCRETION OF THE PROFESSIONAL.
8. THE CONTRACTOR SHALL SUBMIT COPIES OF THE PRODUCT DATA, SHOP DRAWINGS, ETC. OF ALL MATERIALS NOTED ON THE DRAWINGS. ALL SUBMITTED PRODUCT DATA, SHOP DRAWINGS, ETC. SHALL BE MARKED WITH THE NAME OF THE PROJECT AND SHALL BEAR THE STAMP OF APPROVAL OF THE CONTRACTOR AS EVIDENCE THAT THE MATERIAL HAS BEEN CHECKED BY THE CONTRACTOR.
9. DRAWINGS SPECIFIC TO THIS TRADE DO NOT LIMIT THE RESPONSIBILITY OR WORK REQUIRED BY THE CONTRACT DOCUMENTS. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER TRADES FOR COMPLETE INFORMATION PRIOR TO BID.
10. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS, AND EQUIPMENT SCHEDULES, THE MOST STRINGENT REQUIREMENT OR QUANTITY SHALL APPLY. NOTIFY THE ARCHITECT/ENGINEER OF ALL CONFLICTS FOR RESOLUTION OR INTERPRETATION.
11. NO EQUIPMENT SHALL BE ORDERED OR INSTALLED UNTIL THE PROJECT ENGINEER HAS RECEIVED A COPY STAMPED "NO EXCEPTIONS TAKEN," "NO EXCEPTIONS TAKEN" DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMANCE WITH THE CONTRACT, EXTEND TO QUANTITIES OR DIMENSIONS, IMPLY THAT THE EQUIPMENT CAN BE INSTALLED OR OPERATE SATISFACTORILY, THAT THE EQUIPMENT CONTAINS ALL NECESSARY COMPONENTS, OR THAT IT WILL COORDINATE WITH OTHER REVIEWED ITEMS.
12. OMISSION FROM THIS SHEET OF ANY ITEM SHOWN ELSEWHERE IN THE PLANS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ANY ASSOCIATED WORK.
13. COORDINATE INSTALLATION OF NEW ITEMS AND EQUIPMENT WITH THE OWNER'S REPRESENTATIVE AND THE WORK OF OTHER TRADES. THE CONTRACTOR SHALL INCUR ALL COSTS ASSOCIATED WITH THE RELOCATION OF EQUIPMENT CONFLICTING WITH NEW WORK BY OTHER TRADES THAT HAS NOT BEEN COORDINATED.
14. ALL CONDUIT SIZES SHOWN ARE MINIMUM SIZES WHICH SHALL BE UTILIZED. CONTRACTOR SHALL VERIFY THAT ALL WIRING AND CABLES UTILIZED MEET NEC FILL REQUIREMENTS PRIOR TO INSTALLATION OF CONDUIT. ANY CONFLICT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO BIDDING.
15. CONTRACTOR SHALL COORDINATE ALL CONDUIT WALL AND FLOOR PENETRATIONS WITH ALL TRADES AS REQUIRED. ALL PENETRATIONS SHALL BE SEALED WATERTIGHT.
16. PROVIDE 1/4" MINIMUM DIAMETER PULL ROPE. PULL ROPE SHALL NOT BE NYLON STRING.
17. ALL 120V, 20 AMP BRANCH CIRCUITS OVER 75' SHALL BE A MINIMUM OF #10.
18. ALL CIRCUITS SHALL HAVE DEDICATED NEUTRAL. NO NEUTRAL SHARING SHALL BE PERMISSIBLE FOR 120V & 277V CIRCUITS.

LIGHTING GENERAL NOTES

1. VERIFY THE EXACT LOCATION OF ALL LIGHTING SWITCHES WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. VERIFY THE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ROUGH-IN.
3. EMERGENCY FIXTURES AND EXIT FIXTURES SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT. BRANCH CIRCUIT WIRING TO EXIT FIXTURES AND TO BATTERY INVERTERS WITHIN FIXTURES WITH INTEGRAL BATTERY UNITS SHALL BE UNSWITCHED, CONNECTED AHEAD OF ANY CONTROL SWITCHING.
4. VERIFY THE CEILING TYPES FOR ALL LIGHT FIXTURES TO BE FLUSH MOUNTED OR SUSPENDED AND ADJUST FIXTURE MOUNTING TYPES IN ACCORDANCE WITH THE CEILING TYPE, AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL REQUIRED MOUNTING HARDWARE
5. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL DEVICES/SWITCHES/DIMMERS WITH LIGHTING FIXTURES AND BALLASTS/DRIVERS PRIOR TO SUBMITTAL.
6. COORDINATE LOCATION OF LIGHT FIXTURES IN MECHANICAL ROOMS WITH DIVISION 15/23 PLANNED EQUIPMENT LOCATION AND DUCT INSTALLATION. WALL MOUNT LIGHTS OR PROVIDE PENDANT MOUNTING AS REQUIRED TO ILLUMINATE THE SPACE.
7. WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN THE SAME AREA, MOTION DETECTION BY ONE SENSOR SHALL ILLUMINATE ALL LIGHTING IN THE RESPECTIVE AREA.
8. LIGHT SWITCHES SHALL BE GANGED UNDER A SINGLE PLATE WHERE GROUPED TOGETHER

IDENTIFICATION OF EQUIPMENT GENERAL NOTES

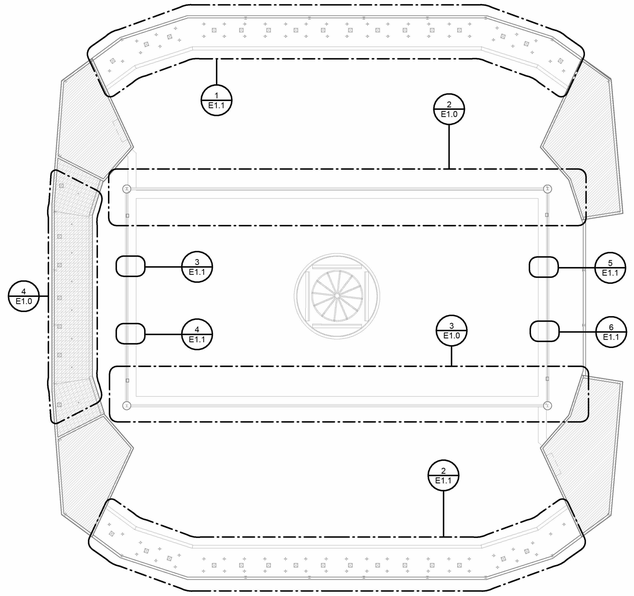
1. ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL: PUNCHED OR DRILLED FOR SCREW MOUNTING. WHITE LETTERS ON A DARK-GRAY BACKGROUND. MINIMUM LETTER HEIGHT SHALL BE 3/8 INCH. LETTERING AND BACKGROUND COLORS AS INDICATED BELOW:
   A. POWER CIRCUITS:
      A. NORMAL: WHITE LETTERING ON BLACK BACKGROUND.
      B. EMERGENCY OPTIONAL STANDBY: WHITE LETTERING ON PURPLE BACKGROUND.
2. LABELING INSTRUCTIONS
   A. INDOOR EQUIPMENT: ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. UNLESS OTHERWISE INDICATED, PROVIDE A SINGLE LINE OF TEXT WITH 1/2-INCH- HIGH LETTERS ON 1-1/2-INCH- HIGH LABEL: WHERE 2 LINES OF TEXT ARE REQUIRED, USE LABELS 2 INCHES HIGH.
   B. EQUIPMENT TO BE LABELED SHALL INCLUDE BUT NOT BE LIMITED TO:
      - PANELBOARDS, ELECTRICAL CABINETS, AND ENCLOSURES.
      - ALL JUNCTION BOXES. LABEL TO INCLUDE CIRCUIT NUMBERS (PANEL AND NUMBER).
      - ALL LIGHTING SWITCH PLATES SHALL HAVE CIRCUIT NUMBERS ON THE BACK OF THE PLATE. (PANEL AND NUMBER).

DEMOLITION GENERAL NOTES

1. THE LOCATIONS OF EXISTING CIRCUITS AND EQUIPMENT ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, AND WIRING BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSE BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING PORTIONS OF THE ELECTRICAL SYSTEMS.
2. THE CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.
3. ALL EQUIPMENT REMOVED THAT IS NOT BEING REUSED SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF AS REQUIRED. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL WALK AREAS TO BE RENOVATED WITH OWNER TO IDENTIFY AND DOCUMENT ITEMS TO BE SALVAGED FOR OWNER'S USE.
4. EXCEPT AS OTHERWISE NOTED, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. OTHER ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD, UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED CONCEALED CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS STUBBED OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.
5. WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE DISCONTINUED AND RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS AS SPECIFIED.
6. WHERE EXISTING RACEWAYS THAT ARE NOT TO BE REUSED INTERFERE WITH NEW WORK, THESE RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX OR PULL BOX AND THE OPENINGS BLANKED.
7. CONTRACTOR SHALL MAINTAIN CONTINUITY OF BRANCH CIRCUITS SERVING MULTIPLE ITEMS OF WHICH ONE OR MORE ARE BEING DEMOLISHED. CONDUCTORS AND CONDUITS FOR THOSE ITEMS BEING DEMOLISHED SHALL BE REMOVED AS FAR AS PRACTICABLE.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXISTING ELECTRICAL DEVICES/EQUIPMENT AND DATA WIRING NOT REUSED OR NOT NECESSARY FOR THE COMPLETION OF THIS PROJECT.
9. DISCONNECT AND REMOVE ABANDONED PANELBOARDS, DISTRIBUTION EQUIPMENT, LIGHTING, AND DEVICES. REMOVE ASSOCIATED CONDUIT TO NEAREST ABOVE CEILING JUNCTION BOX.
10. IF ANY BRANCH CIRCUIT WIRING FEEDING EQUIPMENT TO REMAIN IN PLACE FOR REUSE IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE THE NEW BRANCH CIRCUIT WIRING OF THE SAME SIZE AND TYPE AS THAT OF THE EXISTING AT NO COST TO THE OWNER.
11. EXISTING DEVICES ARE SHOWN IN GRAY. CONDUIT AND WIRING ARE NOT GENERALLY SHOWN AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL DEMOLITION WORK AND CLARIFICATION OF INDICATED WORK WILL BE GIVEN BY RFI.
12. COORDINATE THE REMOVAL AND REINSTALLATION (OR PROTECTION IN PLACE) OF EXISTING ELECTRICAL EQUIPMENT AND DEVICES WITH THE WORK OF OTHER TRADES TO REPLACE OR REFINISH EXISTING WALLS AND CEILINGS.
13. WHERE EXISTING CIRCUITS ARE BEING REMOVED IN EXISTING PANELS. PROVIDE A NEW, NEATLY TYPED DIRECTORY WHICH INDICATES WHERE "SPARE" BREAKERS ARE LOCATED. ANY EXISTING BREAKERS THAT ARE NOT FEEDING DEVICES SHALL REMAIN AND BE LABELED AS A "SPARE."

ELECTRICAL DEMO NOTES:

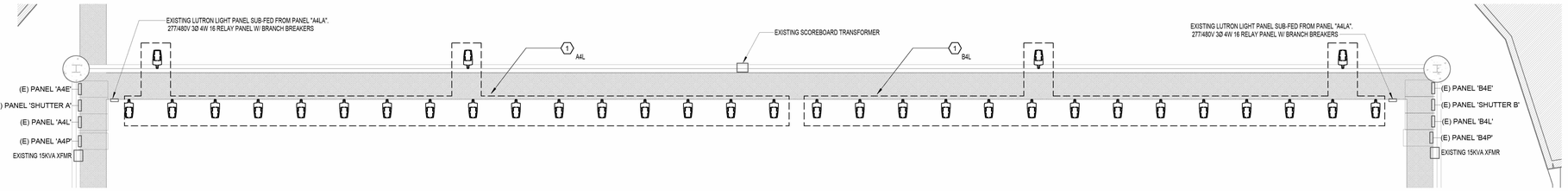
1. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES SCHEDULED FOR DEMOLITION. PROTECT CIRCUITRY FOR REUSE
2. PRIOR TO DEMOLITION VERIFY EXISTING LIGHTING IS NOT CURRENTLY FED BY LUTRON CONTROL SYSTEM. IN THE EVENT THAT IT IS, EXISTING CIRCUITRY SHALL BE PROTECTED AND RE-USED.



1 ELECTRICAL DEMO PLAN - OVERALL PLAN
1" = 30'-0"

ELECTRICAL KEYED DEMO NOTES:

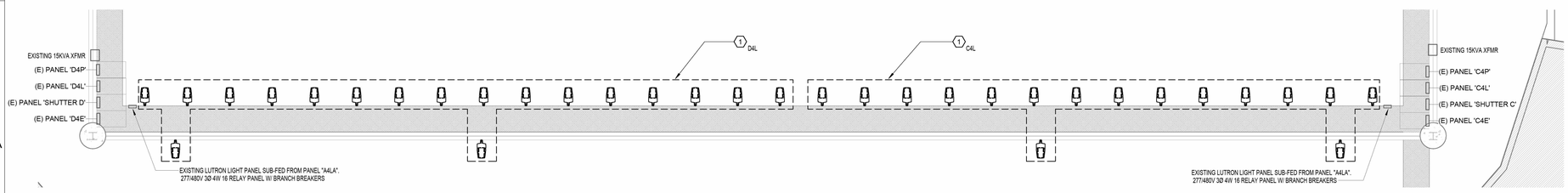
1. LIGHTS ARE PREVIOUSLY FED FROM LUTRON LIGHTING PANEL FED FROM PANEL INDICATED ADJACENT TO KEYED NOTE. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL LIGHTING FIXTURES SCHEDULED FOR DEMOLITION. PROTECT CIRCUITRY FOR REUSE



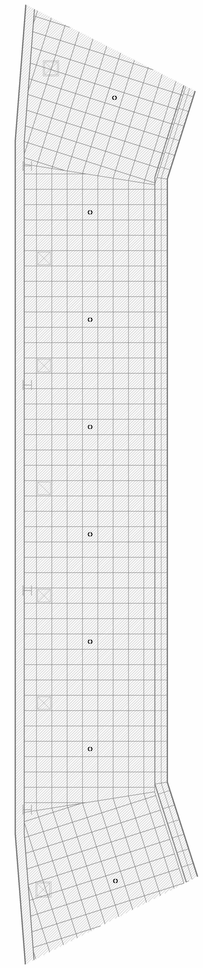
2 ELECTRICAL DEMO PLAN - ZONE A PLAN NORTH
1/8" = 1'-0"

ELECTRICAL KEYED DEMO NOTES:

1. LIGHTS ARE PREVIOUSLY FED FROM LUTRON LIGHTING PANEL FED FROM PANEL INDICATED ADJACENT TO KEYED NOTE. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL LIGHTING FIXTURES SCHEDULED FOR DEMOLITION. PROTECT CIRCUITRY FOR REUSE



3 ELECTRICAL DEMO PLAN - ZONE A PLAN SOUTH
1/8" = 1'-0"



4 ELECTRICAL DEMO PLAN - ZONE D
1/8" = 1'-0"

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PROJECT:

MAIN GYMNASIUM LIGHTING UPGRADE
GRAMBLING STATE
UNIVERSITY'S FREDRICK C.
HOBDY ASSEMBLY CENTER
GRAMBLING, LOUISIANA

CONSTRUCTION DOCUMENTATION

PROJECT ARCHITECT: DSG
PROJECT NUMBER: 25-030
DATE: 3/6/2026
DRAWN BY: ALT
CHECKED BY: LDB

No.	Description	Date

BID DOCS

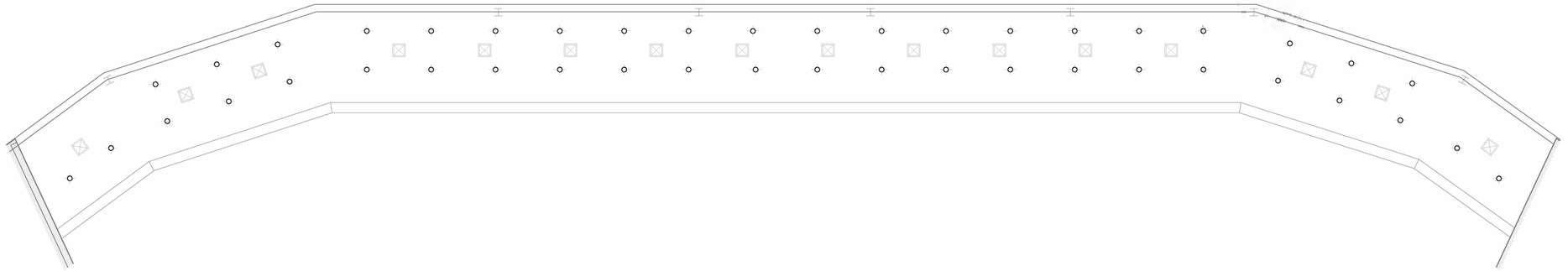
SEAL:

SHEET TITLE:
ELECTRICAL DEMO PLAN

SHEET NUMBER
E1.0

ELECTRICAL DEMO NOTES:

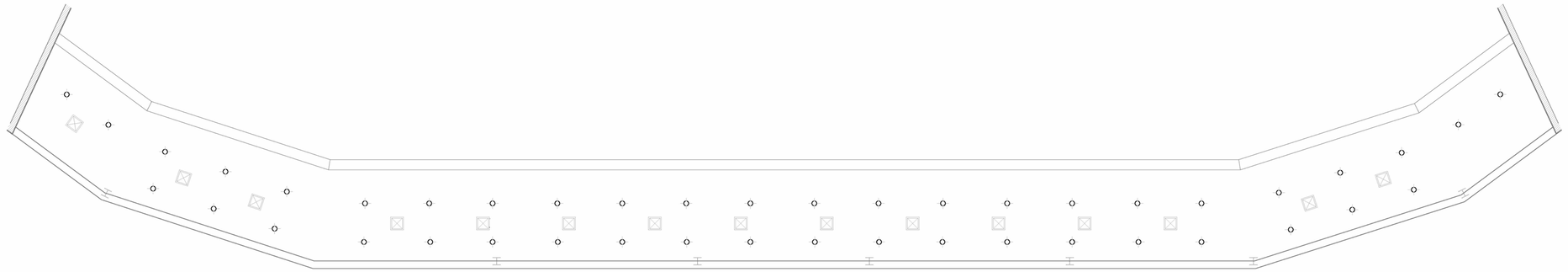
1. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES SCHEDULED FOR DEMOLITION. PROTECT CIRCUITRY FOR REUSE
2. PRIOR TO DEMOLITION VERIFY EXISTING LIGHTING IS CURRENTLY FED BY LUTRON CONTROL SYSTEM.



1 ELECTRICAL DEMO PLAN - ZONE B PLAN NORTH
1/8" = 1'-0"

ELECTRICAL DEMO NOTES:

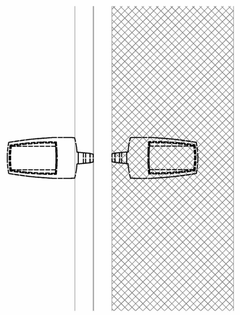
1. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES SCHEDULED FOR DEMOLITION. PROTECT CIRCUITRY FOR REUSE
2. PRIOR TO DEMOLITION VERIFY EXISTING LIGHTING IS CURRENTLY FED BY LUTRON CONTROL SYSTEM.



2 ELECTRICAL DEMO PLAN - ZONE B PLAN SOUTH
1/8" = 1'-0"

ELECTRICAL DEMO NOTES:

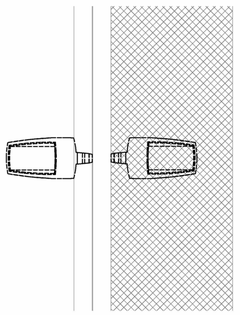
FIXTURES LOCATED UNDER CATWALK. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES SCHEDULED FOR DEMOLITION. DEMOLISH CONDUIT AND CONDUCTORS BACK TO SOURCE.



3 UNDER CATWALK LTG - NW
1/2" = 1'-0"

ELECTRICAL DEMO NOTES:

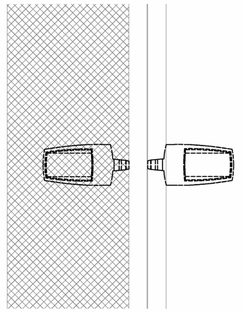
FIXTURES LOCATED UNDER CATWALK. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES SCHEDULED FOR DEMOLITION. DEMOLISH CONDUIT AND CONDUCTORS BACK TO SOURCE.



4 UNDER CATWALK LTG - SW
1/2" = 1'-0"

ELECTRICAL DEMO NOTES:

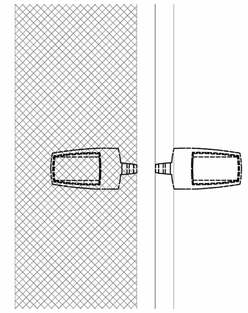
FIXTURES LOCATED UNDER CATWALK. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES SCHEDULED FOR DEMOLITION. DEMOLISH CONDUIT AND CONDUCTORS BACK TO SOURCE.



5 UNDER CATWALK LTG - NE
1/2" = 1'-0"

ELECTRICAL DEMO NOTES:

FIXTURES LOCATED UNDER CATWALK. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES SCHEDULED FOR DEMOLITION. DEMOLISH CONDUIT AND CONDUCTORS BACK TO SOURCE.



6 UNDER CATWALK LTG - SE
1/2" = 1'-0"

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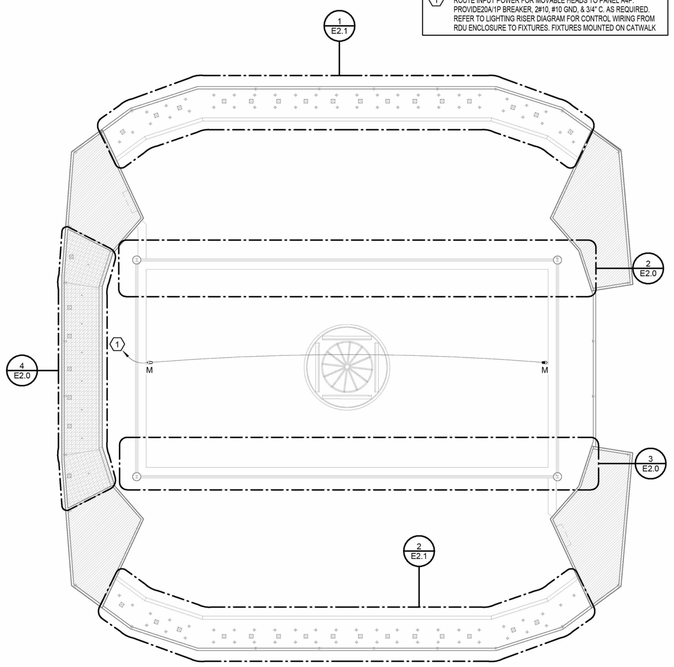
BID DOCS

SEAL:

SHEET TITLE:
ELECTRICAL DEMO PLAN - ZONE B

SHEET NUMBER
E1.1

OVERALL PLAN KEYED NOTES:	
1	ROUTE INPUT POWER FOR MOVABLE HEADS TO PANEL A4P. PROVIDE20A/1P BREAKER, 2#10, #10 GND, & 3/4" C. AS REQUIRED. REFER TO LIGHTING RISER DIAGRAM FOR CONTROL WIRING FROM RDU ENCLOSURE TO FIXTURES. FIXTURES MOUNTED ON CATWALK



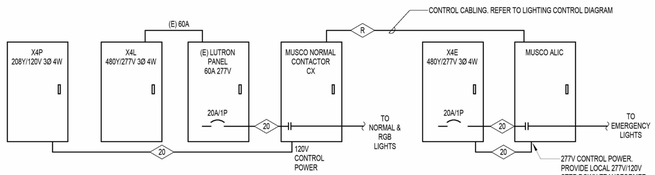
1 ELECTRICAL LIGHTING PLAN - OVERALL PLAN
1" = 30'-0"

LIGHTING FIXTURE SCHEDULE

NOTES:
** FINISH TO BE SELECTED BY ARCHITECT | FIXTURE COUNT IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT QTY.
FIXTURES WITH SUBSCRIPT "E" SHALL BE EQUIPPED WITH INTEGRAL EMERGENCY BATTERY BACKUP OR CONNECTED TO LIFE SAFETY VIA UL924.

MARK	DESCRIPTION	LAMPS	VOLTS	LOAD	TEMP.	LUMENS	MOUNTING	APPROVED FIXTURES	
								MANUFACTURER	CATALOG NO.
C6	6" LED DOWNLIGHT	LED	UNV	20 VA	4,000	40,000	RECESSED	PRESCOLITE	LTR-6RD-H-HL-DM1
D9	9" SURFACE MOUNTED HIGH LUMEN OUTPUT CYLINDER	LED	UNV	20 VA	4,000	40,000	SURFACE	PRESCOLITE	MC10LED-S-12L-35K-8
L1	COURT LIGHTING. PROVIDE ANY NECESSARY MOUNTING HARDWARE AS REQUIRED	LED	UNV	540 VA	4,000	67,000	SURFACE	MUSCO	TLC-LED-550
L1E	COURT LIGHTING CONNECTED TO EMERGENCY CIRCUIT. PROVIDE ANY NECESSARY MOUNTING HARDWARE AS REQUIRED	LED	UNV	540 VA	4,000	67,000	SURFACE	MUSCO	TLC-LED-550
L1RGB	RGB COURT LIGHTING. PROVIDE ANY NECESSARY MOUNTING HARDWARE AS REQUIRED	LED	UNV	640 VA	N/A	67,000	SURFACE	MUSCO	TLC-RGBA
M	MOVABLE HEAD SPOTLIGHT	LED	UNV	430 VA	6,500	30,000	SURFACE	AYRTON	RIVALE PROFILE S - 012321
U1E	COURT LIGHTING. PROVIDE ANY NECESSARY MOUNTING HARDWARE AS REQUIRED	LED	UNV	540 VA	4,000	67,000	SURFACE	MUSCO	TLC-LED-550

TYPICAL GENERAL NOTES:	
1.	THE LETTER 'X' IS DEPENDANT ON THE QUADRANT SECTION OF PANELS.



5 TYPICAL SECTION PANEL/ CONTACTOR ROUTING
N.T.S.

3-WIRE FEEDER SCHEDULE - COPPER

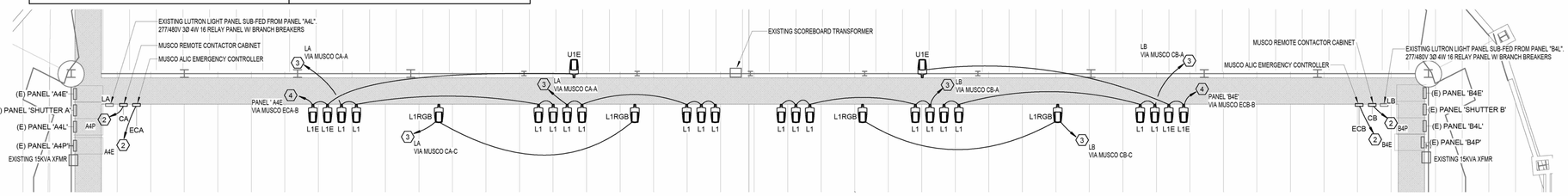
STD. FUSE OR BKR TRIP SIZE	# OF SETS	THHN/THWN-2/XHHW CONDUCTORS	CONDUIT SIZE (MINIMUM)	GROUNDING ELECTRODE CONDUCTOR (REFER TO SUBSCRIPT GEC)
<20>	1	3#12, 1#12 GND	3/4"	#8
<R>	REFER TO LIGHTING CONTROL DIAGRAM FOR CONTROL CABLING			

NOTES:
1. OTHER THAN THOSE LISTED ABOVE ARE USED.
2. REFER TO THE 2020 EDITION OF THE NEC FOR CONDUIT TYPES REQUIRED PER THEIR TABLES.
3. GROUND SIZES INDICATED IN SCHEDULE ARE PER NEC 250.122. REFER TO NEC 250.66 FOR GROUND SIZE AT SEPARATELY DERIVED SYSTEMS.

ABREVIATIONS:	
EXAMPLE PANEL ROUTING:	LX VIA MUSCO CX-ZONE
LX-1:	X DESIGNATES WHICH LUTRON CONTROL PANEL TO ROUTE TO
CX - X DESIGNATES WHICH MUSCO CONTROL CONTACTOR TO ROUTE TO	
ZONE - DESIGNATES WHICH CONTROL ZONE THE ASSOCIATED CIRCUIT BELONGS TO:	A - NORMAL LIGHTING ZONE B - EMERGENCY LIGHTING ZONE C - RGB LIGHTING ZONE

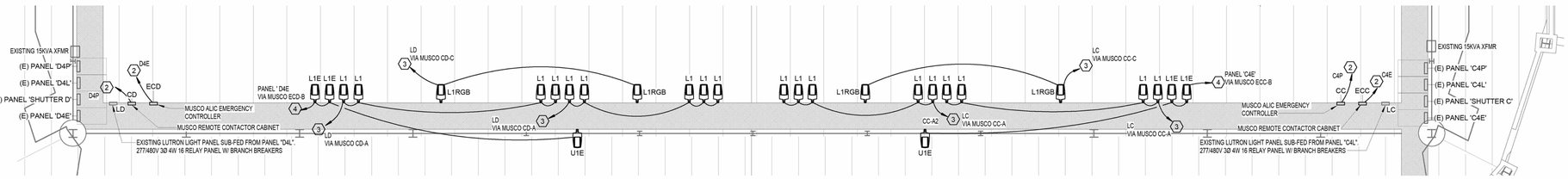
ELECTRICAL GENERAL NOTES:	
1.	UTILIZE PROTECTED CIRCUITRY TO INSTALL NEW LIGHTING FIXTURES. PROVIDE 2#12, #12GND, & 3/4" C. AS REQUIRED TO EXTEND CIRCUITRY. ROUTE TO LUTRON PANEL FED FROM PANEL 'A4L'.

ELECTRICAL KEYED NOTES:	
1	UTILIZE PROTECTED CIRCUITRY PREVIOUSLY SERVING DEMOLISHED LIGHTS. ASSOCIATED PANEL INDICATED ADJACENT TO KEYED NOTE. PROVIDE 20A/1P BREAKER, 2 #12, #12GND, & 3/4"C. AS REQUIRED TO ACCOMODATE NEW LIGHTING CIRCUITS
2	ROUTE TO ASSOCIATED CONTACTOR CONTROL POWER CIRCUIT. PROVIDE 2#12, #12 GND, & 3/4" C. AS REQUIRED. PROVIDE 20A/1P BREAKER TO PANEL INDICATED ADJACENT TO KEYED NOTE
3	PROVIDE 2#12, #12GND, 3/4" C. ROUTE THROUGH MUSCO CONTACTOR PANEL AS INDICATED. FROM MUSCO CONTACTOR PANEL TO LUTRON CONTROL PANEL. CONNECT CIRCUITRY TO EXISTING 277V 20A/1P BREAKER WITHIN LUTRON CONTROL PANEL. REFER TO TYPICAL SECTION PANEL/ CONTACTOR ROUTING
4	PROVIDE 2#12, #12GND, 3/4" C. ROUTE THROUGH MUSCO ALIC AS INDICATED. FROM MUSCO ALIC TO EMERGENCY PANEL INDICATED ADJACENT TO KEYED NOTE. CONNECT CIRCUITRY TO EXISTING 277V 20A/1P BREAKER WITHIN 480Y/277V 3Ø 4W EMERGENCY PANEL. REFER TO TYPICAL SECTION PANEL/ CONTACTOR ROUTING

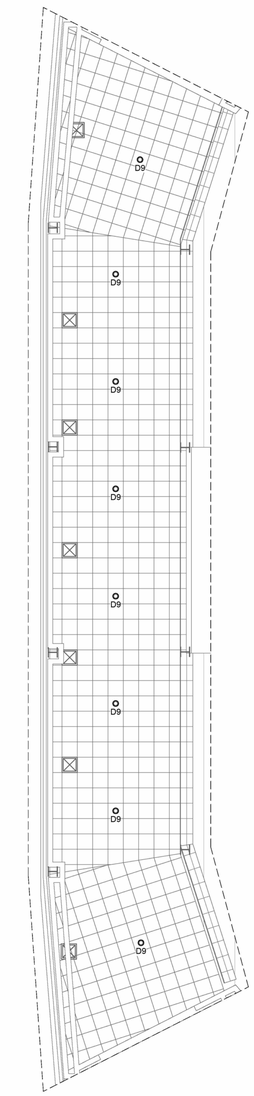


2 ELECTRICAL LIGHTING PLAN - ZONE A PLAN NORTH
1/8" = 1'-0"

ELECTRICAL KEYED NOTES:	
1	UTILIZE PROTECTED CIRCUITRY PREVIOUSLY SERVING DEMOLISHED LIGHTS. ASSOCIATED PANEL INDICATED ADJACENT TO KEYED NOTE. PROVIDE 20A/1P BREAKER, 2 #12, #12GND, & 3/4"C. AS REQUIRED TO ACCOMODATE NEW LIGHTING CIRCUITS
2	ROUTE TO ASSOCIATED CONTACTOR CONTROL POWER CIRCUIT. PROVIDE 2#12, #12 GND, & 3/4" C. AS REQUIRED. PROVIDE 20A/1P BREAKER TO PANEL INDICATED ADJACENT TO KEYED NOTE
3	PROVIDE 2#12, #12GND, 3/4" C. ROUTE THROUGH MUSCO CONTACTOR PANEL AS INDICATED. FROM MUSCO CONTACTOR PANEL TO LUTRON CONTROL PANEL. CONNECT CIRCUITRY TO EXISTING 277V 20A/1P BREAKER WITHIN LUTRON CONTROL PANEL. REFER TO TYPICAL SECTION PANEL/ CONTACTOR ROUTING
4	PROVIDE 2#12, #12GND, 3/4" C. ROUTE THROUGH MUSCO ALIC AS INDICATED. FROM MUSCO ALIC TO EMERGENCY PANEL INDICATED ADJACENT TO KEYED NOTE. CONNECT CIRCUITRY TO EXISTING 277V 20A/1P BREAKER WITHIN 480Y/277V 3Ø 4W EMERGENCY PANEL. REFER TO TYPICAL SECTION PANEL/ CONTACTOR ROUTING



3 ELECTRICAL LIGHTING PLAN - ZONE A PLAN SOUTH
1/8" = 1'-0"



4 ELECTRICAL LIGHTING PLAN - ZONE D
1/8" = 1'-0"

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FACSIMILE: (601) 983-4444

PROJECT:

MAIN GYMNASIUM LIGHTING UPGRADE
GRAMBLING STATE
UNIVERSITY'S FREDRICK C.
HOBDY ASSEMBLY CENTER
GRAMBLING, LOUISIANA

CONSTRUCTION DOCUMENTATION

PROJECT ARCHITECT: DSG
PROJECT NUMBER: 25-030
DATE: 3/6/2026
DRAWN BY: ALT
CHECKED BY: LDB

No.	Description	Date

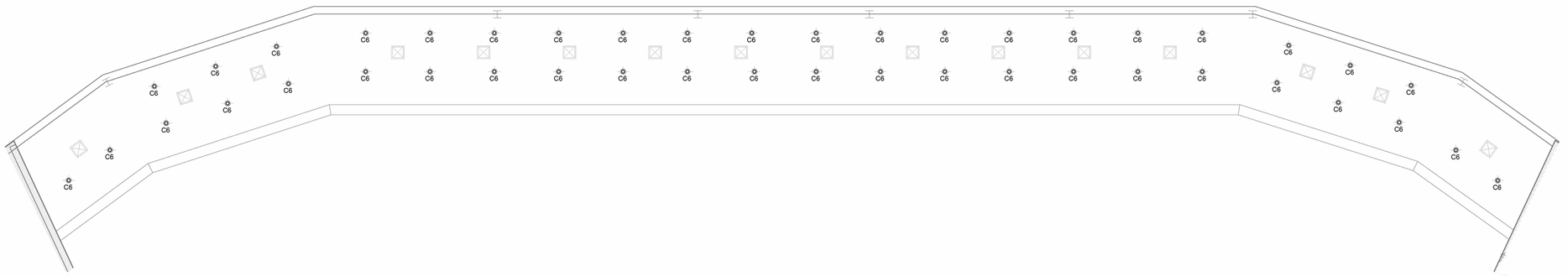
BID DOCS

SEAL:

SHEET TITLE:
ELECTRICAL LIGHTING PLAN

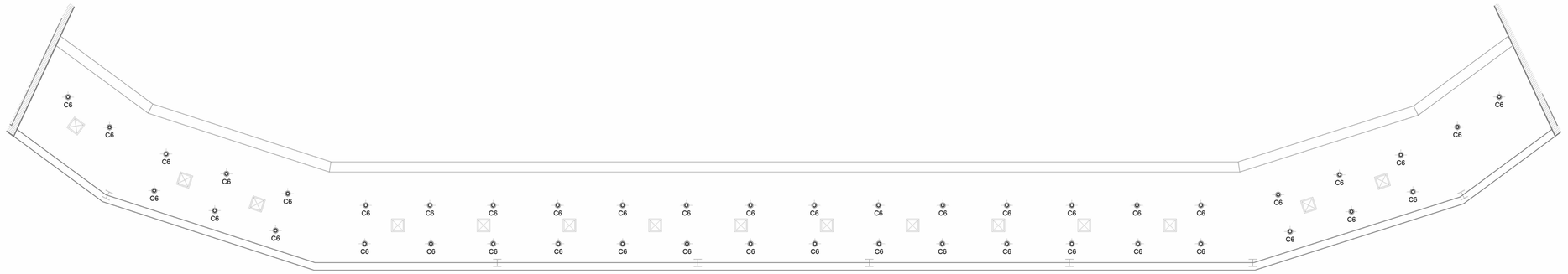
SHEET NUMBER
E2.0

ELECTRICAL GENERAL NOTES:
1. UTILIZE PROTECTED CIRCUITRY TO INSTALL NEW LIGHTING FIXTURES. PROVIDE 2#12, #12GND, & 3/4" C. AS REQUIRED TO EXTEND CIRCUITRY.
2. IN THE EVENT THAT THE EXISTING LIGHTING CIRCUIT WAS NOT PREVIOUSLY FED BY LUTRON CONTROL SYSTEM, PROVIDE 2#12, #12 GND, 3/4" C. & 20A/1P BREAKER TO ROUTE TO LUTRON PANEL FED FROM PANEL '44L'.



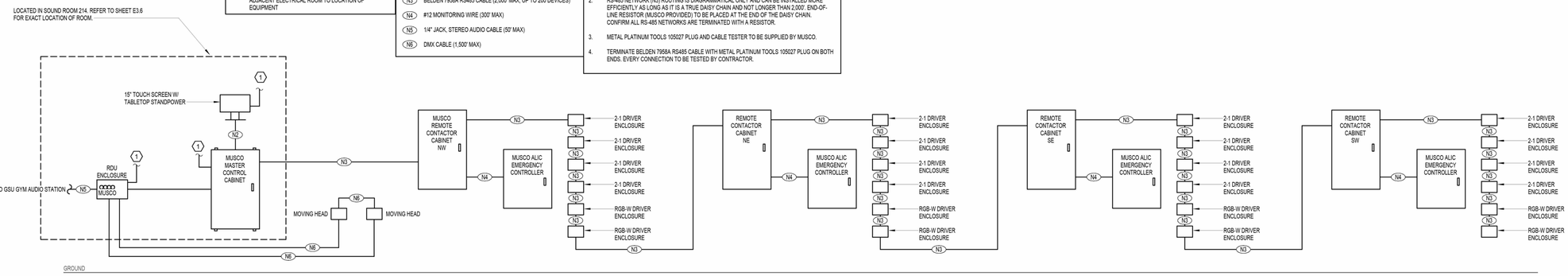
1 ELECTRICAL LIGHTING PLAN - ZONE B PLAN NORTH
1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:
1. UTILIZE PROTECTED CIRCUITRY TO INSTALL NEW LIGHTING FIXTURES. PROVIDE 2#12, #12GND, & 3/4" C. AS REQUIRED TO EXTEND CIRCUITRY.
2. IN THE EVENT THAT THE EXISTING LIGHTING CIRCUIT WAS NOT PREVIOUSLY FED BY LUTRON CONTROL SYSTEM, PROVIDE 2#12, #12 GND, 3/4" C. & 20A/1P BREAKER TO ROUTE TO LUTRON PANEL FED FROM PANEL '44L'.



2 ELECTRICAL LIGHTING PLAN - ZONE B PLAN SOUTH
1/8" = 1'-0"

KEYED NOTES:	WIRE FEEDER SCHEDULE	GENERAL NOTES:
(1) PROVIDE 20A/1P BREAKER, DUPLEX RECEPTACLE, 2#12, #12 GND, & 3/4" C. FROM EXISTING PANEL 'A29' IN ADJACENT ELECTRICAL ROOM TO LOCATION OF EQUIPMENT	(N2) BELDEN 1583A CAT5 CABLE (300' MAX) (N3) BELDEN 7958A RS485 CABLE (2,000' MAX, UP TO 200 DEVICES) (N4) #12 MONITORING WIRE (300' MAX) (N5) 1/4" JACK, STEREO AUDIO CABLE (50' MAX) (N6) DMX CABLE (1,500' MAX)	1. ALL ENCLOSURE DIMENSIONS PER DETAILS ARE WIDTH X HEIGHT X DEPTH 2. RS-485 NETWORK (N3) ROUTING IS DIAGRAMMATICAL ONLY AND CAN BE INSTALLED MORE EFFICIENTLY AS LONG AS IT IS A TRUE DAISY CHAIN AND NOT LONGER THAN 2,000'. END-OF-LINE RESISTOR (MUSCO PROVIDED) TO BE PLACED AT THE END OF THE DAISY CHAIN. CONFIRM ALL RS-485 NETWORKS ARE TERMINATED WITH A RESISTOR. 3. METAL PLATINUM TOOLS 105027 PLUG AND CABLE TESTER TO BE SUPPLIED BY MUSCO. 4. TERMINATE BELDEN 7958A RS485 CABLE WITH METAL PLATINUM TOOLS 105027 PLUG ON BOTH ENDS. EVERY CONNECTION TO BE TESTED BY CONTRACTOR.



3 LIGHTING CONTROL DIAGRAM
N.T.S.

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CONSTRUCTION DOCUMENTATION

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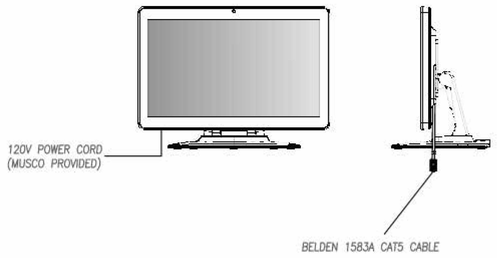
SEAL:

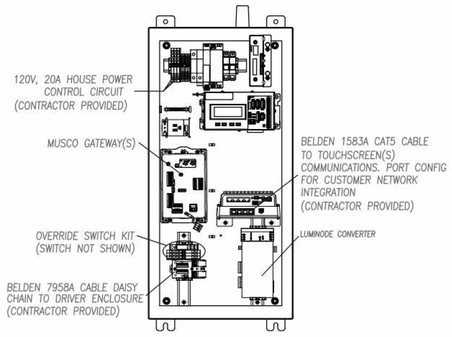
SHEET TITLE:
ELECTRICAL LIGHTING PLAN - ZONE B

SHEET NUMBER
E2.1



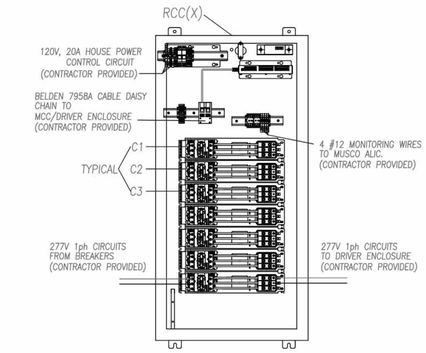
15" TOUCH SCREEN W/ TABLETOP STAND
(15"x11"x8")

1 TOUCH SCREEN W/ TABLETOP STAND
N.T.S.



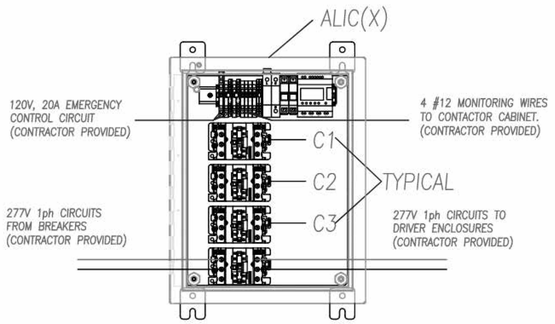
MASTER CONTROL CABINET (16"x32"x11")

2 MASTER CONTROL CABINET
N.T.S.



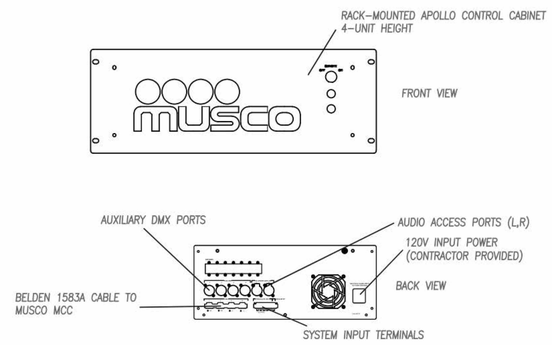
REMOTE CONTACTOR CABINET
(24"x48"x11")

3 REMOTE CONTACTOR CABINET
N.T.S.



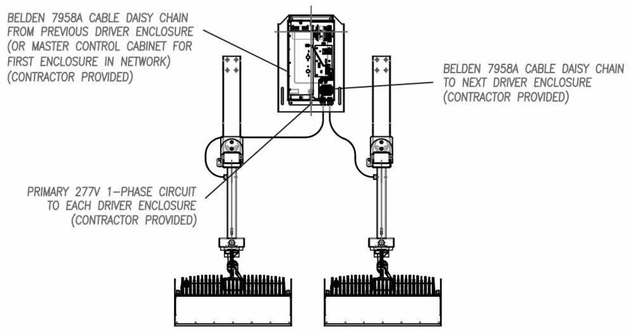
MUSCO ALIC EMERGENCY CONTROLLER
(16"x20"x10")

4 MUSCO ALIC EMERGENCY CONTROLLER
N.T.S.



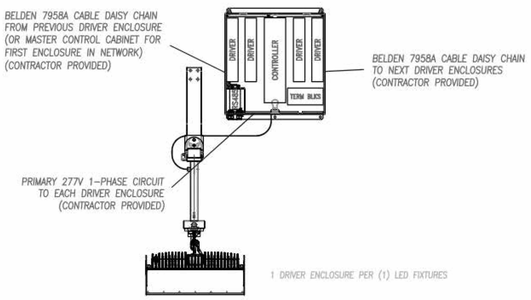
RDU ENCLOSURE

5 RDU ENCLOSURE
N.T.S.



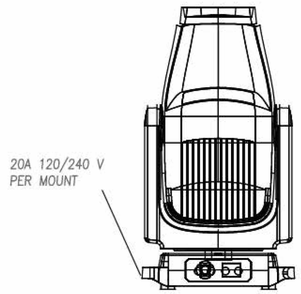
FIXTURE AND DRIVER ENCLOSURE
(10.5"x20.25"x4.38")

6 FIXTURE AND DRIVER ENCLOSURE
N.T.S.



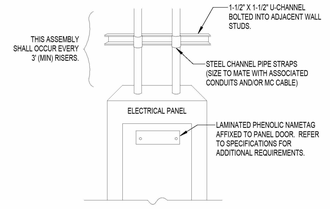
RGBW FIXTURE AND DRIVER ENCLOSURE
(TYPICAL, 18.0"x20.25"x6.38")

7 RGBW FIXTURE AND DRIVER ENCLOSURE
N.T.S.

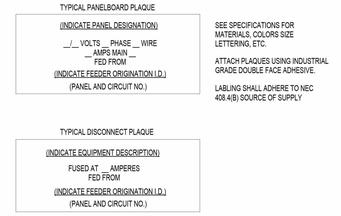


MOVING HEAD

8 MOVING HEAD
N.T.S.



9 DETAIL - CONDUIT SUPPORT
N.T.S.



10 DETAIL - EQUIPMENT SIGNAGE
N.T.S.

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PROJECT:

MAIN GYMNASIUM LIGHTING UPGRADE
GRAMBLING STATE
UNIVERSITY'S FREDRICK C.
HOBDY ASSEMBLY CENTER
GRAMBLING, LOUISIANA

CONSTRUCTION DOCUMENTATION

PROJECT ARCHITECT: DSG
PROJECT NUMBER: 25-030
DATE: 3/6/2026
DRAWN BY: ALT
CHECKED BY: LDB

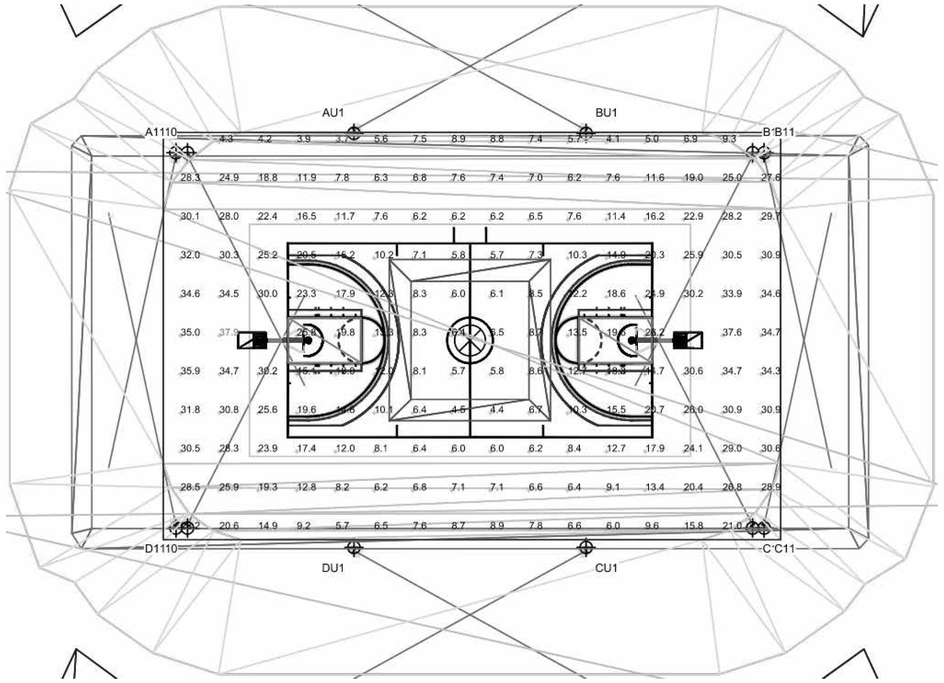
No.	Description	Date

BID DOCS

SEAL:

SHEET TITLE:
ELECTRICAL
DETAILS

SHEET NUMBER
E2.2



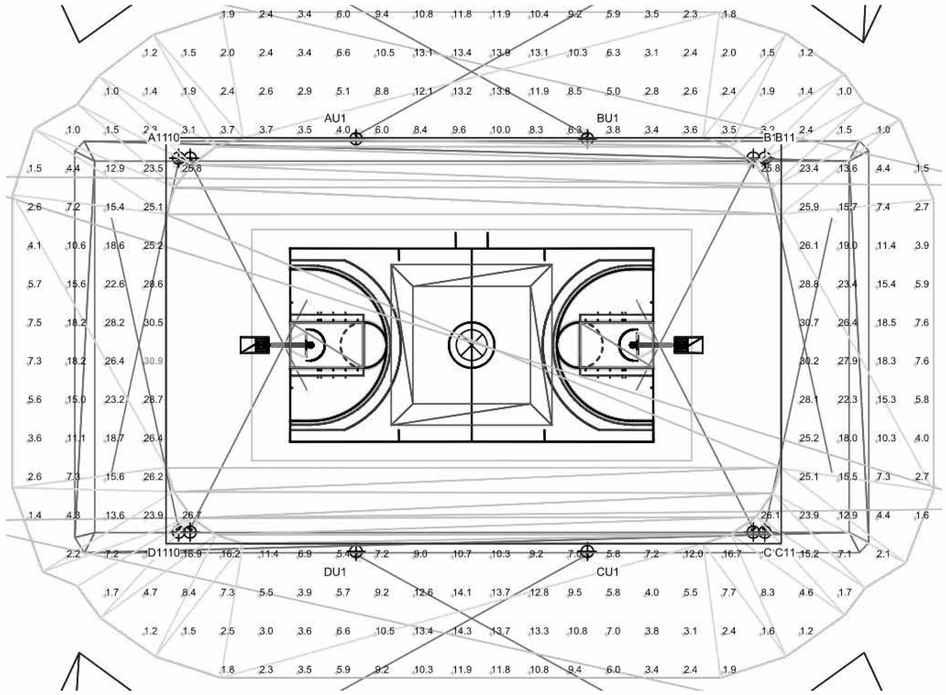
1 PHOTOMETRICS - EM HORIZONTAL FOOTCANDLES
12" = 1'-0"

Grid Summary

Name:	**Expanded Floor Area EM**
Size:	94' x 50'
Spacing:	10.0' x 10.0'
Height:	1.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**16.19**
Maximum:	38
Minimum:	4
Avg/Min:	4.42
Max/Min:	**10.34**
UG (adjacent pts):	5.74
CU:	0.39
No. of Points:	171
FIXTURE INFORMATION	
Applied Circuits:	B
Design Usage Hours:	100000
No. of Fixtures:	12
Avg Load:	**5.83 kW**
Max Load:	6.48 kW



2 PHOTOMETRICS - EM SEATING HORIZONTAL FOOTCANDLES
12" = 1'-0"

Grid Summary

Name:	**Lower Bleacher Grid EM**
Size:	94' x 50'
Spacing:	10.0' x 10.0'
Height:	21.9' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**9.95**
Maximum:	31
Minimum:	1
Avg/Min:	10.11
Max/Min:	**31.36**
UG (adjacent pts):	0.00
CU:	0.32
No. of Points:	232
FIXTURE INFORMATION	
Applied Circuits:	B
Design Usage Hours:	100000
No. of Fixtures:	12
Avg Load:	**5.83 kW**
Max Load:	6.48 kW

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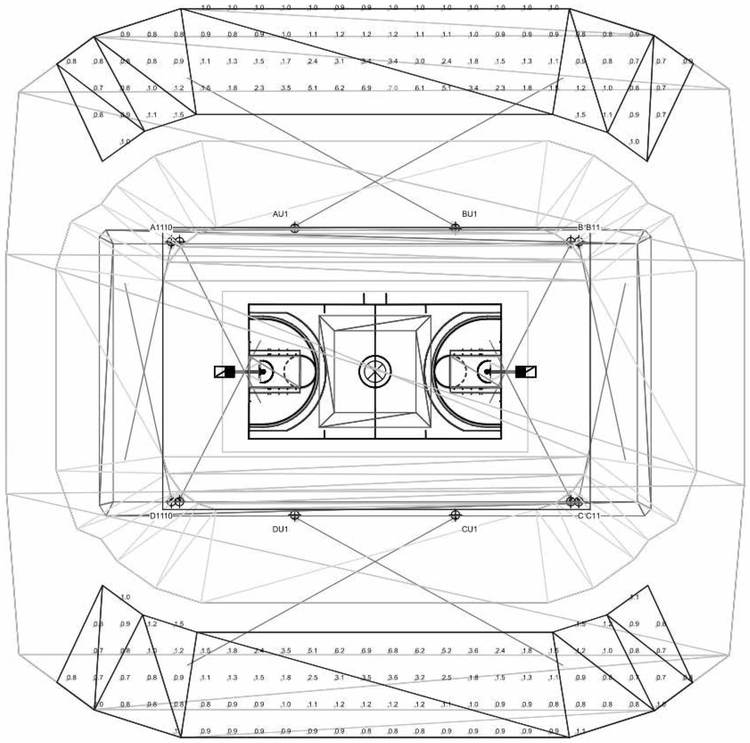
No.	Description	Date

BID DOCS

SEAL:

SHEET TITLE:
LIGHTING
PHOTOMETRICS 1

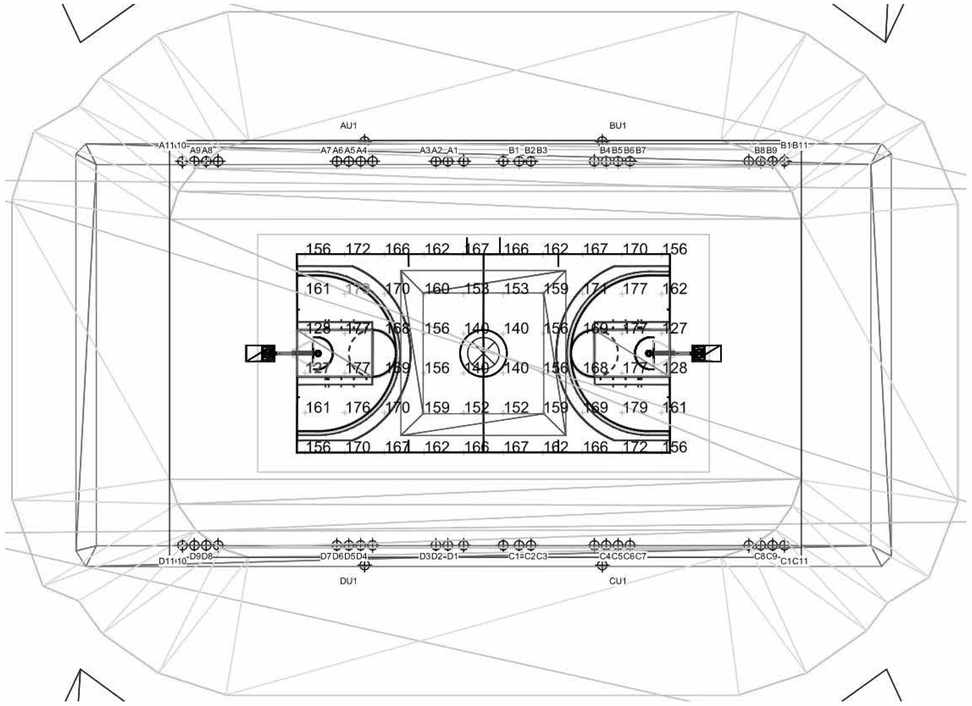
SHEET NUMBER
E3.0



1 PHOTOMETRICS - EM UPPER SEATING HORIZONTAL FOOTCANDLES
12" = 1'-0"

Grid Summary	
Name:	**Upper Bleacher Grid EM**
Size:	94' x 50'
Spacing:	10.0' x 10.0'
Height:	45.1' above grade

Illumination Summary	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**1.57**
Maximum:	7
Minimum:	1
Avg/Min:	2.24
Max/Min:	**9.90**
UG (adjacent pts):	0.00
CU:	0.04
No. of Points:	184
FIXTURE INFORMATION	
Applied Circuits:	B
Design Usage Hours:	100000
No. of Fixtures:	12
Avg Load:	**5.83 kW**
Max Load:	6.48 kW



2 PHOTOMETRICS - HORIZONTAL FOOTCANDLES
12" = 1'-0"

Grid Summary	
Name:	**Basketball**
Size:	94' x 50'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average:	**125**
Scan Average:	160.71
Maximum:	179
Minimum:	127
Avg/Min:	1.27
Guaranteed Max/Min:	**1.7**
Max/Min:	1.41
UG (adjacent pts):	1.40
CU:	0.35
No. of Points:	60
FIXTURE INFORMATION	
Applied Circuits:	A,B
Design Usage Hours:	100000
No. of Fixtures:	48
Avg Load:	**23.33 kW**
Max Load:	25.92 kW

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MAIN GYMNASIUM LIGHTING UPGRADE
GRAMBLING STATE UNIVERSITY'S FREDRICK C. HOBDY ASSEMBLY CENTER
GRAMBLING, LOUISIANA

CONSTRUCTION DOCUMENTATION

PROJECT ARCHITECT: DSG
PROJECT NUMBER: 25-030
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DRAWN BY: ALT
CHECKED BY: LDB

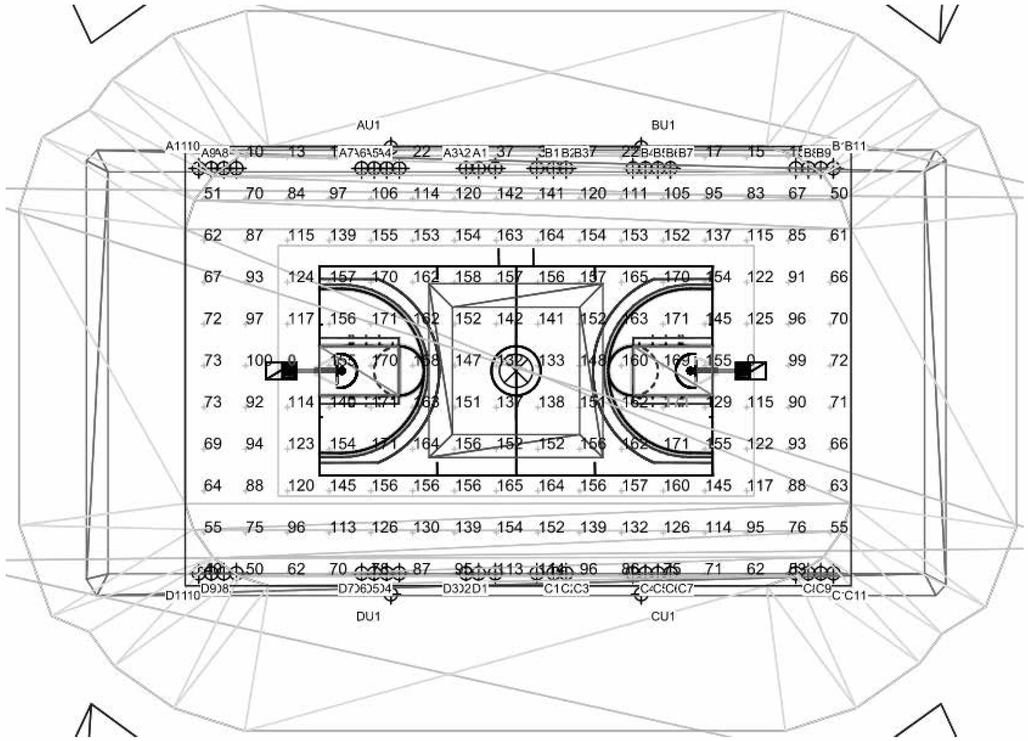
No.	Description	Date

BID DOCS

SEAL:

SHEET TITLE:
LIGHTING PHOTOMETRICS 2

SHEET NUMBER
E3.1



Grid Summary

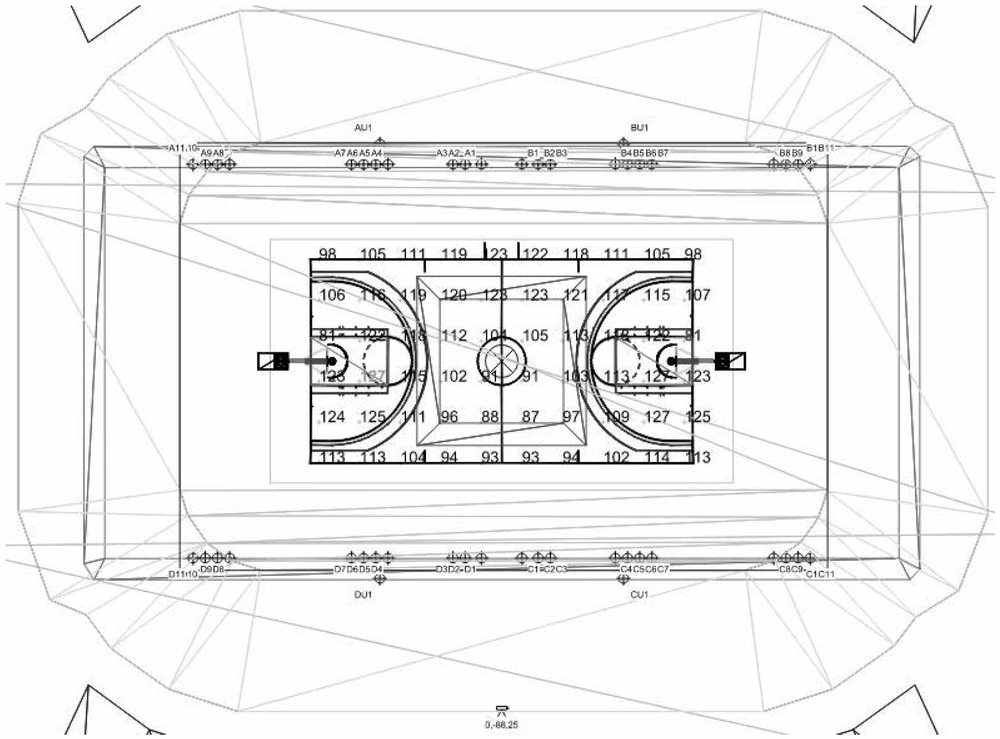
Name:	**Expanded Floor Area**
Size:	94' x 50'
Spacing:	10.0' x 10.0'
Height:	1.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**111.73**
Maximum:	171
Minimum:	0
Avg/Min:	-
Max/Min:	**-**
UG (adjacent pts):	10179246.00
CU:	0.69
No. of Points:	173
FIXTURE INFORMATION	
Applied Circuits:	A,B
Design Usage Hours:	100000
No. of Fixtures:	48
Avg Load:	**23.33 kW**
Max Load:	25.92 kW

1 PHOTOMETRICS - HORIZONTAL FOOTCANDLES EXPANDED
N.T.S.



Grid Summary

Name:	**Basketball**
Size:	94' x 50'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED TV FOOTCANDLES: Main Camera

	Entire Grid
Guaranteed Average:	**100**
Scan Average:	109.86
Maximum:	127
Minimum:	81
Avg/Min:	1.36
Guaranteed Max/Min:	**1.7**
Max/Min:	1.57
UG (adjacent pts):	1.52
CU:	0.35
No. of Points:	60
FIXTURE INFORMATION	
Applied Circuits:	A,B
Design Usage Hours:	100000
No. of Fixtures:	48
Avg Load:	**23.33 kW**
Max Load:	25.92 kW

2 PHOTOMETRICS - MAIN CAMERA TV FOOTCANDLES
N.T.S.

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MSA ARCHITECTURE PLLC
4880 McWILLIE CIRCLE, JACKSON, MISSISSIPPI 39206
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FACSIMILE: (601) 983-4444

PROJECT:

MAIN GYMNASIUM LIGHTING UPGRADE
GRAMBLING STATE
UNIVERSITY'S FREDRICK C.
HOBDY ASSEMBLY CENTER
GRAMBLING, LOUISIANA

CONSTRUCTION DOCUMENTATION

PROJECT ARCHITECT: DSG
PROJECT NUMBER: 25-030
DATE: 3/6/2026
DRAWN BY: ALT
CHECKED BY: LDB

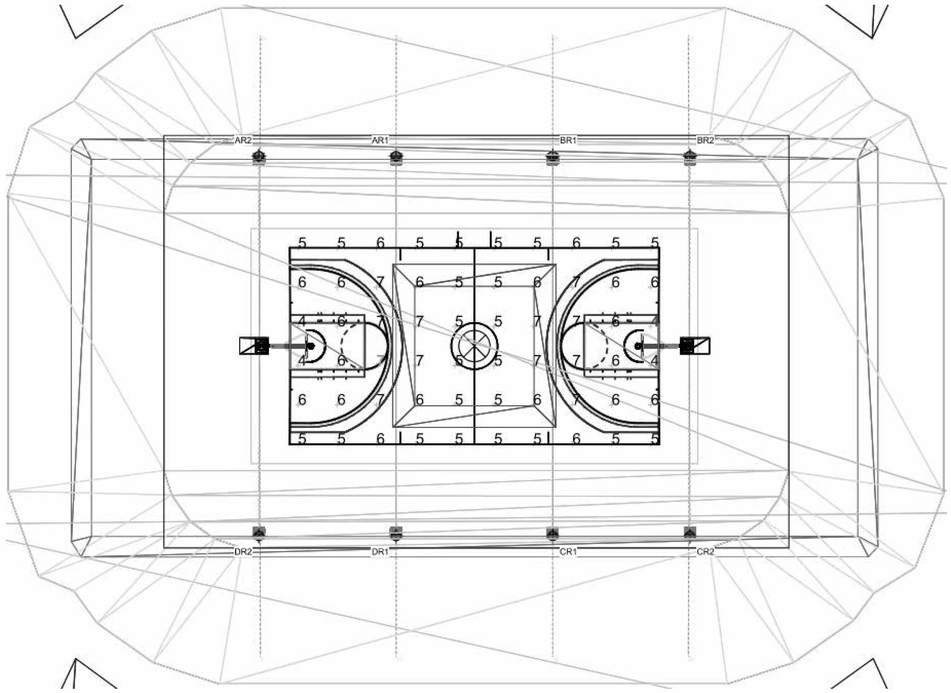
No.	Description	Date

BID DOCS

SEAL:

SHEET TITLE:
LIGHTING
PHOTOMETRICS 3

SHEET NUMBER
E3.2



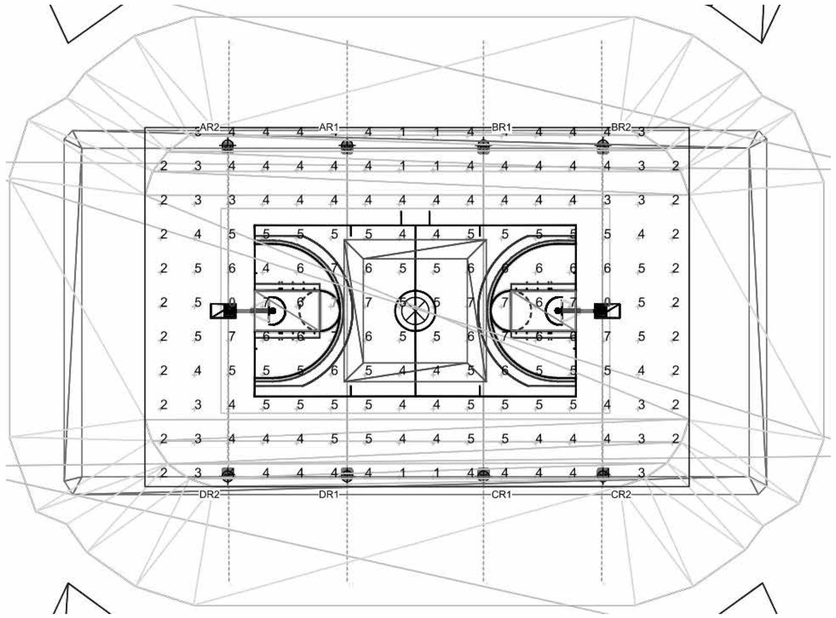
1 PHOTOMETRICS - RGBA HORIZONTAL FOOTCANDLES
N.T.S.

Grid Summary

Name:	**Basketball RGBA**
Size:	94' x 50'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**5.67**
Maximum:	7
Minimum:	4
Avg/Min:	1.34
Max/Min:	**1.77**
UG (adjacent pts):	1.45
CU:	0.21
No. of Points:	60
FIXTURE INFORMATION	
Applied Circuits:	C
No. of Fixtures:	**8**
Total Load:	5.12 kW



2 PHOTOMETRICS - RGBA HORIZONTAL FOOTCANDLES EXPANDED
N.T.S.

Grid Summary

Name:	**Expanded Floor Area - RGBA**
Size:	94' x 50'
Spacing:	10.0' x 10.0'
Height:	1.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**4.18**
Maximum:	7
Minimum:	0
Avg/Min:	-
Max/Min:	**-**
UG (adjacent pts):	6.11
CU:	0.43
No. of Points:	173
FIXTURE INFORMATION	
Applied Circuits:	C
No. of Fixtures:	**8**
Total Load:	5.12 kW

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GRAMBLING, LOUISIANA

CONSTRUCTION DOCUMENTATION

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CHECKED BY: LDB

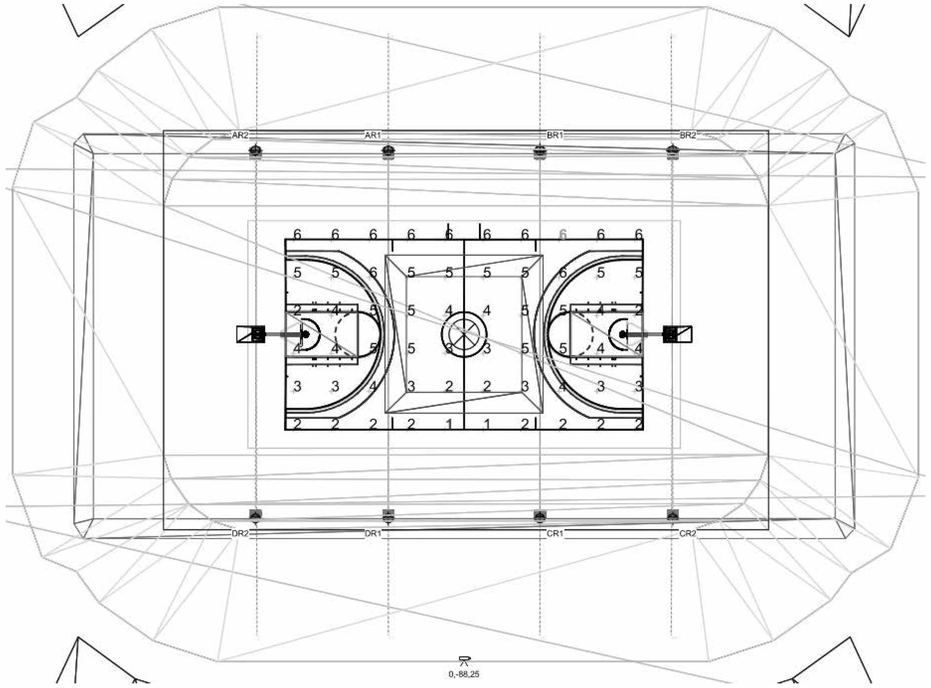
No.	Description	Date

BID DOCS

SEAL:

SHEET TITLE:
LIGHTING
PHOTOMETRICS 4

SHEET NUMBER
E3.3



1 PHOTOMETRICS - RGBA MAIN CAMERA TV FOOTCANDLES
N.T.S.

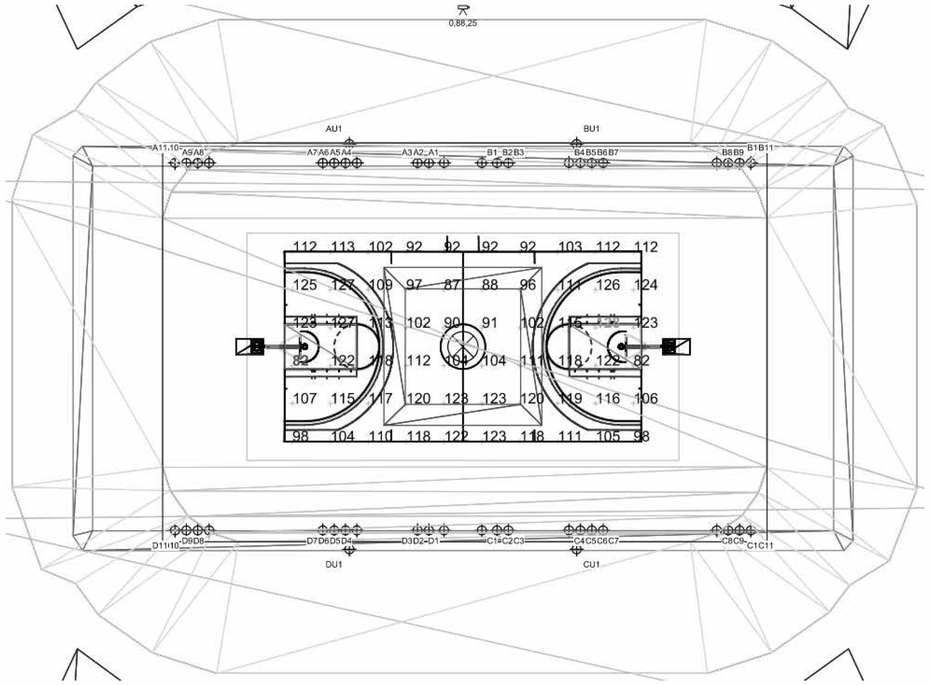
Grid Summary

Name:	**Basketball RGBA**
Size:	94' x 50'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED TV FOOTCANDLES: Main Camera

	Entire Grid
Scan Average:	**4.04**
Maximum:	6
Minimum:	1
Avg/Min:	2.86
Max/Min:	**4.59**
UG (adjacent pts):	2.81
CU:	0.21
No. of Points:	60
FIXTURE INFORMATION	
Applied Circuits:	C
No. of Fixtures:	**8**
Total Load:	5.12 kW



2 PHOTOMETRICS - SECONDARY CAMERA TV FOOTCANDLES
N.T.S.

Grid Summary

Name:	**Basketball**
Size:	94' x 50'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED TV FOOTCANDLES: Reverse Camera

	Entire Grid
Scan Average:	**109.59**
Maximum:	128
Minimum:	82
Avg/Min:	1.34
Max/Min:	**1.57**
UG (adjacent pts):	1.51
CU:	0.35
No. of Points:	60
FIXTURE INFORMATION	
Applied Circuits:	A,B
Design Usage Hours:	100000
No. of Fixtures:	48
Avg Load:	**23.33 kW**
Max Load:	25.92 kW

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GRAMBLING, LOUISIANA

CONSTRUCTION DOCUMENTATION

PROJECT ARCHITECT: DSG
PROJECT NUMBER: 25-030
DATE: 3/6/2026
DRAWN BY: ALT
CHECKED BY: LDB

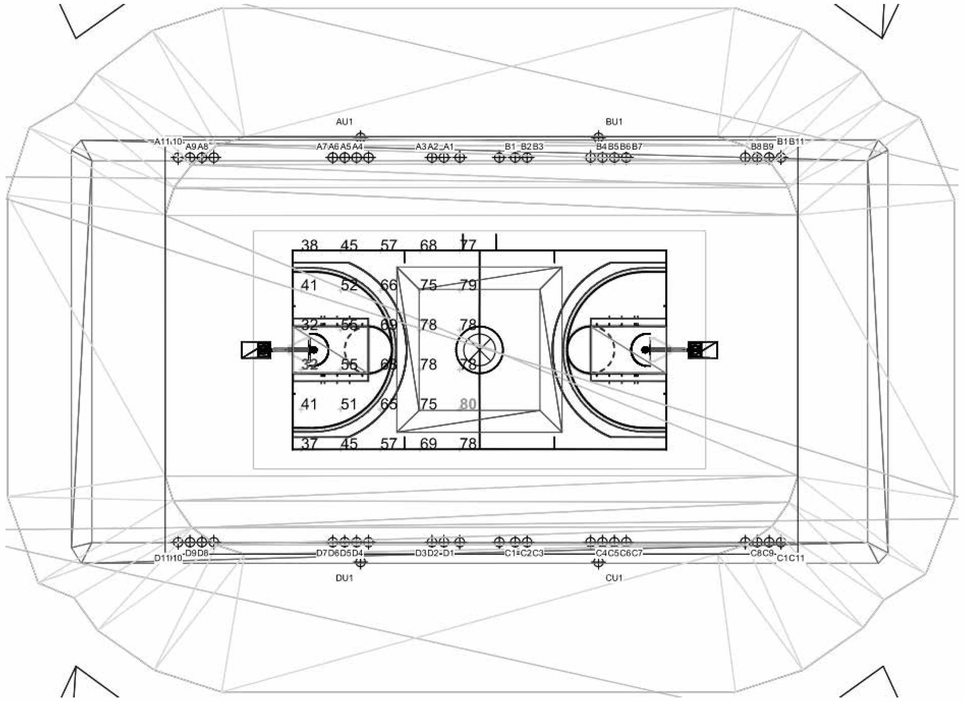
No.	Description	Date

BID DOCS

SEAL:

SHEET TITLE:
LIGHTING
PHOTOMETRICS 5

SHEET NUMBER
E3.4



1 PHOTOMETRICS - VERTICAL FOOTCANDLE WEST COURT 0° TILT
N.T.S.

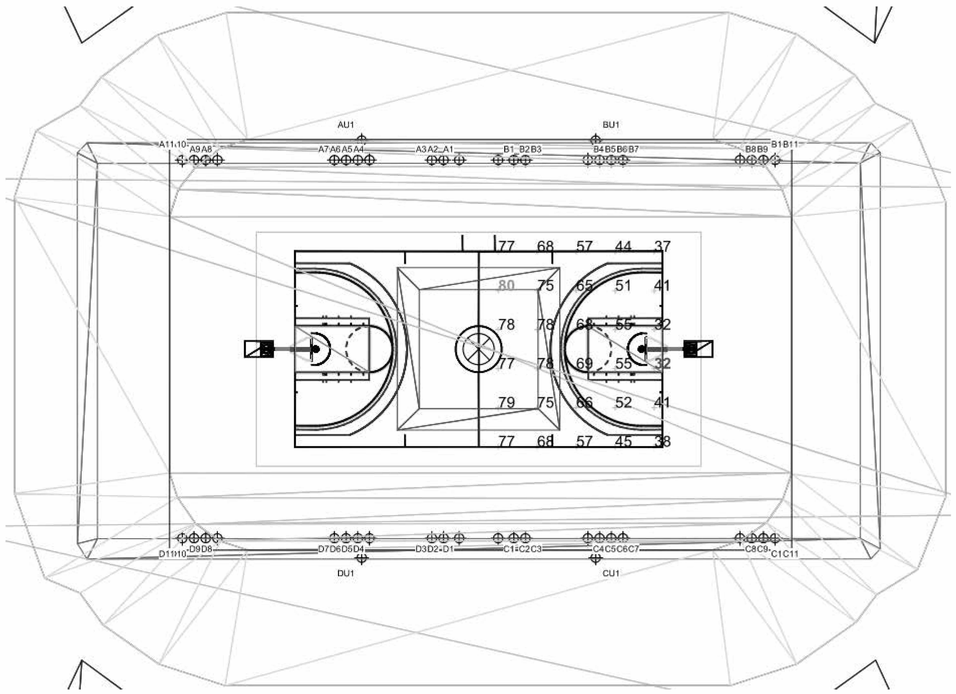
Grid Summary

Name:	**Basketball - End 1**
Size:	94' x 50'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	**60.66**
Maximum:	80
Minimum:	32
Avg/Min:	1.91
Max/Min:	**2.52**
UG (adjacent pts):	1.73
CU:	0.17
No. of Points:	30
FIXTURE INFORMATION	
Applied Circuits:	A,B
Design Usage Hours:	100000
No. of Fixtures:	48
Avg Load:	**23.33 kW**
Max Load:	25.92 kW



2 PHOTOMETRICS - VERTICAL FOOTCANDLES EAST COURT 0° TILT
N.T.S.

Grid Summary

Name:	**Basketball - End 2**
Size:	94' x 50'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt

	Entire Grid
Scan Average:	**60.63**
Maximum:	80
Minimum:	32
Avg/Min:	1.90
Max/Min:	**2.51**
UG (adjacent pts):	1.74
CU:	0.17
No. of Points:	30
FIXTURE INFORMATION	
Applied Circuits:	A,B
Design Usage Hours:	100000
No. of Fixtures:	48
Avg Load:	**23.33 kW**
Max Load:	25.92 kW

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CONSTRUCTION DOCUMENTATION

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No.	Description	Date

BID DOCS

SEAL:

SHEET TITLE:
LIGHTING
PHOTOMETRICS 6

SHEET NUMBER
E3.5

LIGHTING SYSTEM

Structure/Fixture Summary

Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Avg Load	Max Load	Circuit
A1-A9		53'	1	TLC-LED-550	0.49 kW	0.54 kW	A
A10-A11		53'	1	TLC-LED-550	0.49 kW	0.54 kW	B
AR1-AR2		53'	1	TLC-RGBA	0.64 kW	0.64 kW	C
AU1		53'	1	TLC-LED-550	0.49 kW	0.54 kW	B
B1-B9		53'	1	TLC-LED-550	0.49 kW	0.54 kW	A
B10-B11		53'	1	TLC-LED-550	0.49 kW	0.54 kW	B
BR1-BR2		53'	1	TLC-RGBA	0.64 kW	0.64 kW	C
BU1		53'	1	TLC-LED-550	0.49 kW	0.54 kW	B
C1-C9		53'	1	TLC-LED-550	0.49 kW	0.54 kW	A
C10-C11		53'	1	TLC-LED-550	0.49 kW	0.54 kW	B
CR1-CR2		53'	1	TLC-RGBA	0.64 kW	0.64 kW	C
CU1		53'	1	TLC-LED-550	0.49 kW	0.54 kW	B
D1-D9		53'	1	TLC-LED-550	0.49 kW	0.54 kW	A
D10-D11		53'	1	TLC-LED-550	0.49 kW	0.54 kW	B
DR1-DR2		53'	1	TLC-RGBA	0.64 kW	0.64 kW	C
DU1		53'	1	TLC-LED-550	0.49 kW	0.54 kW	B
56			**56**		**28.45 kW**	**31.04 kW**	

Circuit Summary

Circuit	Description	Avg Load	Max Load	Fixture Qty
A	Basketball	17.50 kW	19.44 kW	36
B	Basketball/EM	5.83 kW	6.48 kW	12
C	RGB	5.12 kW	5.12 kW	8

Fixture Type Summary

Type	Circuit	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-RGBA	C	RED-GREEN (Shown)-BLUE-AMBER	640W	20,000	--	--	--	8

Type	Circuit	Source	Avg Wattage	Max Wattage	Constant Lumens	Application	Quantity
TLC-LED-550	A	LED 4500K - 75 CRI	486W	540W	56,381	100k	36
TLC-LED-550	B	LED 4500K - 75 CRI	486W	540W	56,381	100k	12

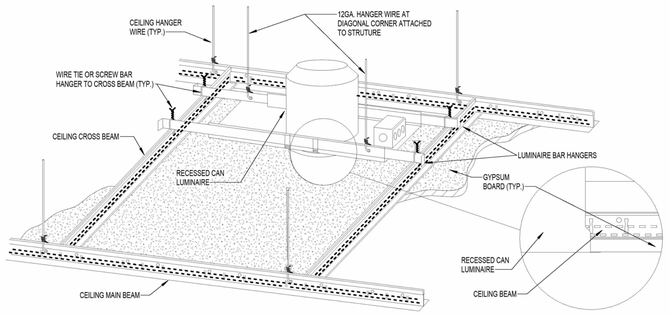
Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4
TLC-RGBA	4.5	4.3	3.8	3.3	2.7	2.5	1.9

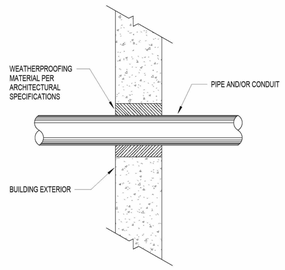
Light Level Summary

Calculation Grid Summary

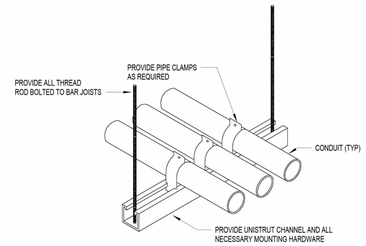
Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Basketball	Horizontal Illuminance	160.71	127	179	1.41	1.27	A,B	48
Basketball	Main Camera	109.86	81	127	1.57	1.36	A,B	48
Basketball	Reverse Camera	109.59	82	128	1.57	1.34	A,B	48
Basketball - End 1	End Line Camera	60.66	32	80	2.52	1.91	A,B	48
Basketball - End 1	End Line Camera (1) Hoop	76.77	26	92	3.51	2.93	A,B	48
Basketball - End 2	End Line Camera (2)	60.63	32	80	2.51	1.90	A,B	48
Basketball - End 2	End Line Camera (2) Hoop	76.76	26	92	3.51	2.93	A,B	48
Lower Bleacher Grid	Horizontal Illuminance	0.00	0	0	-	-	A,B	48
Upper Bleacher Grid	Horizontal Illuminance	0.00	0	0	-	-	A,B	48



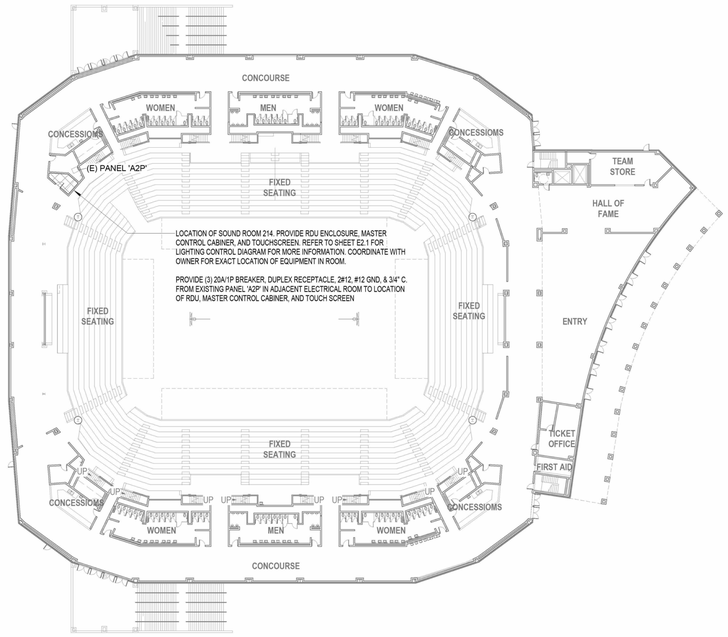
1 DETAIL - DOWNLIGHT MOUNTING
N.T.S.



2 DETAIL - PIPE AND/OR CONDUIT PENETRATION
N.T.S.



3 DETAIL - UNISTRUT CONDUIT DETAIL
N.T.S.



4 ELECTRICAL POWER PLAN - CONCOURSE LEVEL
1/32" = 1'-0"

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GRAMBLING, LOUISIANA

CONSTRUCTION DOCUMENTATION

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DRAWN BY: ALT
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No.	Description	Date

BID DOCS

SEAL:

STATE OF LOUISIANA
LANDON DAVID BURNS
License No. 46484
PROFESSIONAL ENGINEER
IN
03/04/26
ELECTRICAL ENGINEERING

SHEET TITLE:
LIGHTING SYSTEM SCHEDULES

SHEET NUMBER
E3.6