



To: Prospective Bidders

From: Shannon McIntyre
City of Mobile Architectural Engineering Department
Brock Jones, P.E.
Kimley-Horn and Associates

RE: Medal of Honor – Site and Lighting Improvements

Project #PR-001-23

Date: April 9, 2024

This Addendum forms a part of, and modifies, the Bid Documents for the above referenced project, dated March 25, 2024. Acknowledge the receipt of this Addendum No. 1 in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

GENERAL:

- Item 1. Revisions are indicated with a strike-through for deletions and bold italic typeface for additions.
- Item 2. The Pre-Bid Conference Agenda, the Pre-Bid Conference Attendance Roster, dated April 3, 2024, as part of Addendum No. 1.

CHANGES TO THE CONTRACTING REQUIREMENTS:

- Item 1. Replace Section 00400 – Bid Form with the attached Section 00400 – Bid Form, ADD 1
The revised quantities are as follows:

BASE BID ITEMS					
ITEM	DESCRIPTION	ESTIMATED QUANTITY		UNIT PRICE	BID AMOUNT
20	SOLID BLUE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	1810	LF		
23	HANDICAP PAVEMENT MARKINGS	550	SF		

CHANGES TO THE DRAWINGS:

Item 1. Electrical drawings attached, dated 04/08/2024, shall replace drawings, dated 02/02/2024.

RFI's:

Question 1: What system is being used for the parking lot crosswalks?

Response: The crosswalks shall be Paveway STS or approved equal. Please refer to the crosswalk notes on Sheet C-05 of the Drawings.

Question 2: Are the testing requirements as specified going to be paid by the Owner or Contractor?

Response: The required testing will be paid for by the Owner.

Questions 3: Can MasterSeal Ultra be used as an approved equal for the proposed sealcoating of the parking lot?

Response: Yes.

ATTACHMENTS

- ATTACHMENT 1 - Pre-Bid Conference Agenda**
- ATTACHMENT 2 - Pre-Bid Conference Attendance Roster**
- ATTACHMENT 3 - Section 00400 – Bid Form, ADD 1**
- ATTACHMNET 4 - Electrical Drawings Dated 04/08/2024**

END OF ADDENDUM NO. 1

**PRE-BID CONFERENCE AGENDA
PROJECT
FOR
CITY OF MOBILE PARK IMPROVEMENTS
MEDAL OF HONOR PARK – SITE AND LIGHTING IMPROVEMENTS
CITY OF MOBILE PROJECT # PR-001-23
April 3, 2024 at 2:00 p.m.**

Note: *This Agenda is complimentary, for general use as an outline and for discussion during this meeting. Any errors, omissions, or clarifications shall be communicated to the Architect for distribution. This Agenda does not attempt to be, nor represent, any recapitulation of Project requirements, and does not change or alter same in any respect; Changes, if any, will only be made by written Addendum.*

Summary: This project encompasses the phases of work including, but not limited to, Parking Lot Vehicular and Pedestrian circulation in main parking lot area, as well as sports field improvements including grading, drainage, and lighting upgrades. Amphitheater walkway, hardscape, and signage improvements are also part of this project, and alternates including Pickleball Court conversion and other sports field improvements are included as part of this bid package.

1. Welcoming remarks. Reminder to sign in on sheet being circulated

2. Name of Owner – City of Mobile
Project Managers – Shannon McIntyre, Will Mastin

Engineer and Landscape Architect
Kimley-Horn and Associates Inc.:
Brock Jones - Project Engineer

Electrical:
Dell Consulting, LLC
Christina Marie – Electrical Engineer

Architectural:
Watermark

3. Every General Contractor and every Subcontractor should read and be familiar with all of the “front-end” documents and all of Division 1 of the Project Manual, in addition to the work they are bidding and have to coordinate with.

4. **Bid time, date, place** – are indicated in the Advertisement for Bids; Sealed bids will be received and clocked in until 2:15 pm, Wednesday, the 24th day of April, 2024 ; bidders shall insert sealed Bids into a receptacle, marked “City of Mobile Bids”, located in the elevator lobby outside the office of the City Clerk Office, 9th Floor South Tower, Government Plaza, 205 Government Street, Mobile, Alabama 36602. Bid will be publicly opened and read at 2:30 PM local time, in the Atrium Lobby of Government Plaza.

It is the Contractors responsibility to make sure Bid is received prior to bid time or they will not be accepted.

5. Note that Advertisement and Instructions to Bidders should be read by each bidder. For insurance requirements refer to Invitation & Instructions to Bidders in the Project Manual. A Certificate of Insurance evidencing all the minimum requirements must be provided to and accepted by the City of Mobile prior to commencing on the contract.
6. Contractors shall use the Bid Form included in Project Manual, copies of which are furnished to each bidder with Bid Documents. Bids must include Attachment A to Bid Form (Unit Prices) at Bid time and date.
7. Before submitting a bid for the Work, the bidders shall carefully examine the Bid Documents, visit the site, and satisfy themselves as to the nature and location of the Work, and the general and local conditions, including weather, the general character of the site and building, the character and extent of existing work within or adjacent to the site and any other work being performed thereon at the time of submission of their bids.
8. Addenda - Minutes of Pre-Bid Conference, and any pertinent items discussed shall be issued as Addendum following the Pre-Bid Conference. Any further addenda necessary after the Pre-Bid Meeting will be issued to all plan holders.
9. Clarification will be made only by written Addenda posted on the City of Mobile website. Questions and Clarifications must be submitted in writing five (5) days prior to bid.
10. When the Bid Documents identify three or more sources and the list of sources is not followed by “or approved equal” or similar wording, the bidder’s proposal shall be based upon one of the identified sources, unless the bidder obtains “Pre-bid Approval” of another source. Approval of substitutions, if granted, shall not be effective until published by the Architect in an addendum to the Bid Documents. Requests for substitutions will not be considered seven (7) days prior to bid.
11. If there is a conflict, discrepancy, or confusion between the existing conditions, plans and specifications for work, materials or equipment and the Contractor does not receive written clarification from the Architect prior to the opening of bids the Contractor shall include the better quality or greater quantity of work in his/her bid.
12. Bids must be submitted on the Bid Form as contained in the Bid Documents; only one copy is required to be submitted.
13. All information requested of the bidder on the Bid Form must be filled in. The form must be completed by typewriter or hand-printed in ink.
14. Bids shall be accompanied by a Bid Security equal to 5% (percent) of the total bid price, including the allowance if any, but in no event not more than \$10,000.00. Bid Security shall be on the form of a Bid Bond or cashier’s check payable to the City of Mobile.
15. Bid, with Bid Security, Sales Tax Form C-3A, City of Mobile Subcontracting and Major Supplier Plan and other supporting data specified, shall be contained in a sealed, opaque envelope, approximately 9x12

inches or larger and be marked on the outside with the words "SEALED BID FOR (Medal of Honor Park Site and Lighting Improvements) – PROJECT NUMBER: (PR-001-23)".

16. Performance Assurance and Insurance: The bidder to whom award is made shall provide a Performance Bond equal to 100% of the total Contract Amount (including the allowance) and a Labor and Material Bond equal to 100% of the total contract amount (including the allowance). The accepted Bidder shall also provide insurance as required in section 1.20
NO WORK IS TO BE PERFORMED UNTIL PROOF OF COMPLIANCE WITH THE INSURANCE REQUIREMENTS HAS BEEN RECEIVED BY THE CITY OF MOBILE.
17. A valid City of Mobile business license for the duration of the contract period. E-verify Documentation: The Beason-Hammond Taxpayer Protection Act applies to this project. Contractor shall comply with the requirements of this Act and show proof of enrollment in the E-verify program by submitting the electronically generated Federal E-verify document prior to signing of the construction contract. (see Project Manual)
18. Bids may be delivered in person to address noted in Bid Documents.
19. Bids will be opened and read publicly at the time and place indicated in the Advertisement for Bids.
20. Alternates, if any, are listed in the Bid Form in the order in which they shall cumulatively add to from the base bid for determining the lowest bidder.
21. Award of contract by Awarding Authority, ASAP after the opening of bids.
22. Proposals may be rejected if they contain any omissions, alterations of forms, additions not called for, conditional bids, alternate bids unless called for, incomplete bids, erasures, or irregularities of any kind.
23. Completion Time for Project: Base Bid Completion Time: **two-hundred forty (240) calendar days** . Time begins from date of Official Notice to Proceed. No time will be granted additional if alternates are selected.
24. At the time the Contractor duly awarded the Bid receives the signed Contract and the Notice to Proceed, he shall submit a Schedule of Work Progress to the Architect which reasonably reflects the amount of time required for each Phase of Work and the deadline by which it can be expected that such phase of the Work shall be completed. This Schedule should accurately reflect the date for Substantial Completion, and take into consideration any reasonable contingencies.
25. The Contractor shall be responsible for all project safety. Neither the Architect nor the Owner will be responsible for the Contractor's safety precautions, means, methods, techniques, sequences, or procedures. Contractor's personnel responsible for safety shall be OSHA certified. Safety barricades (as described in the contract documents) for project, including equipment and storage areas, part of contractors means, methods, techniques, sequences, procedures; cost of any type fencing, barricades, etc. necessary shall be incidental to project.
26. Parking for Contractors and their Subs and workers: Shall be coordinated with the Owner.
27. Traffic Control:
 - Coordinate all construction activities with parties having jurisdiction.

- Particular attention shall also be paid to vehicular and pedestrian traffic and routing of such during project.
28. Meetings: Owner / Engineer/ Contractor (OEC) Progress Meeting to be held per project requirements. Pre-Construction Conference will be held once a Contractor has been awarded the project and contract signed.
 29. Liquidated Damages: Per Item II Invitation & Instructions to Bidders, 1.24 LIQUIDATED DAMAGES: for non-completion of the work within the time limited agreed upon will be assessed in the amount of actual damages to the Owner but in no event not more than \$250.00 per day.
 30. Retainage withheld at 5% of the first 50% of Construction Completed until the amount equals 2.5% of the full contract amount. The final 2.5% of the full contract amount is withheld as retainage until all close out requirements are met, proof of advertisement, warranties, Consent of Surety and release of liens, etc. By State of Alabama Law, notice of final completion of the contract shall be published in a local newspaper of general circulation.
 31. Kimley-Horn and Associates (Project Engineer and Landscape Architect). Address and telephone numbers: 11 North Water Street, Suite 9290, Battle House Tower, Mobile, AL 36602, Phone: (251) 263-8323, Website: www.kimley-horn.com
Project Manager: Brock Jones P.E.
Email: brock.jones@kimley-horn.com
Phone: 251-263-8323

City of Mobile
Project Manager: Shannon McIntyre
Email: Shannon.mcintyre@cityofmobile.org
Phone: 251-508-7752
 32. Closing remarks / questions.

PRE-BID MEETING
CITY OF MOBILE
MEDAL OF HONOR PARK IMPROVEMENTS
PR-001-23

Wednesday, April 3, 2024

NAME	REPRESENTING	PHONE NO.	EMAIL
Brock Jones	Kimley-Horn	(850) 748-3276	brock.jones@kimley-horn.com
Shannon McIntyre	City of Mobile	(251)508-7752	shannon.mcintyre@cityofmobile.org
Jim POORE	J HUNT	251 225 5520	jim@jhuntgc.com
Darrick ARUS	Rh Deas	251-591-1271	richard@rhdeasbuildingsco
Christina LeBlanc	Harris Contracting	407-680 4411	Christina@HarrisContracting
Josh Meek	McElhenney	251-402-2869	jmeek@mcElhenney Services Const.com
Stevie Clark	COM	251-358-4388	Steve.Clark@cityofmobile.org
Matt LeBlanc	Harris Contracting	986-360-8844	Brian@Harris Contracting Services.com
Joseph Pryme	J Pryme	251 454-1154	J.Pryme@Live.com
ANDY MAURIN	DELL CONSULTING	251 316 0015	andy@dellconsultingllc.com
Jacob Franklin	Kimley Horn	251-680-2548	
Tim Forget	Bill Smith Electric	251 349 5724	Tim@billsmithelectric.com
David Bell	ME Electric	251 675-2186	whetelec@pellsmith.net
Paul Russell	PL Russell	251-487-6999	Paul@PLRussell.com
Alex Nichols	American Tennis Courts	251-476-4714	alex@americantennicourts.net
Luis Hurtado	Lehr Construction LLC	251-303 6847	Lehr Construction LLC@gmail.com

SECTION 00400
BID FORM, ADD 1

Copies of the following Bid Forms shall be used. Bids submitted on alternate forms may be rejected. Fill in all blank spaces with an appropriate entry. Bid Form must be signed by an officer of the company and notarized.

TO: City of Mobile, 205 Government St., P.O. Box 1827, Mobile, AL, 36633

REF: PROJECT NO.: PR-001-23
PROJECT NAME: Medal of Honor Park – Site and Lighting Improvements
PROJECT LOCATION: 1711 Hillcrest Road, Mobile, Alabama, 36609

In compliance with the Bid Documents and having carefully and thoroughly examined said documents for the subject Work prepared by the City of Mobile, Architectural Engineering Department and Kimley-Horn and Associates, Inc., dated March 25, 2024; and all Addendum (a) Number(s) _____, dated _____, 2024 (**CAUTION:** before submitting any bid it is the Bidder's responsibility to check with the Architectural Engineering Department for all Addenda or special instructions that may impact the Bid) thereto, receipt of which is hereby acknowledged, the premises and all conditions affecting the Work prior to making this Proposal, the Undersigned Bidder, hereby

COMPANY NAME: _____

ADDRESS: _____ **PHONE** _____

ALABAMA GENERAL CONTRACTOR LICENSE NO. _____

CITY OF MOBILE BUSINESS LICENSE NO. _____

SECRETARY OF STATE OF ALABAMA BUSINESS IDENTITY NO. _____

SECRETARY OF STATE OF ALABAMA ACCOUNT NO. _____

(Note: Secretary of State Account Number shall be filled in only by non-resident bidders)

(Check one) A Corporation A Partnership An Individual Doing Business

hereby proposes to furnish all labor, materials, tools, equipment, and supplies and to sustain all the expenses incurred in performing the Work on the above captioned Project in accordance with the terms of the Contract Documents, and all applicable laws and regulations for the sum listed below. The initial term of the Contract shall extend for two hundred forty (240) calendar days from the date of the Notice to Proceed.

BASE BID ITEMS					
ITEM	DESCRIPTION	ESTIMATED QUANTITY		UNIT PRICE	BID AMOUNT
1	MOBILIZATION	1	LS		
2	DEMOLITION	1	LS		
3	SILT FENCE	2,525	LF		
4	EROSION CONTROL PRODUCT, (WATTLES)	28	EA		
5	CLEARING AND GRUBBING	1	LS		
6	UNCLASSIFIED EXCAVATION	275	CY (TBM)		
7	BORROW EXCAVATION	1,750	CY (TBM)		
8	6" CRUSHED AGGREGATE BASE COURSE	800	SY		
9	CONCRETE SIDEWALK, 4" THICK	1,800	SY		
10	CONCRETE STAIR	1	EA		
11	TRUNCATED DOMES	22	EA		
12	PAVEWAY SYSTEMS CROSSWALKS	1	LS		
13	COMBINATION CURB & GUTTER, TYPE M-1	550	LF		
14	6" CONCRETE CURB, TYPE A	4,400	LF		
15	PLANING EXISTING PAVEMENT (APPROXIMATELY 0.00" THRU 2.0" THICK)	2,350	SY		
16	424-A 165 LB/SY SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER 1/2" MAX. AGG. SIZE MIX, ESAL RANGE B	360	TN		
17	424-B 220 LB/SY SUPERPAVE BITUMINOUS CONCRETE BINDER LAYER 3/8" MAX. AGG. SIZE MIX, ESAL RANGE B	100	TN		
18	MICRO-SURFACING SEAL COAT, TYPE II	21,250	SY		
19	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	9,100	LF		
20	SOLID BLUE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	1810	LF		
21	SOLID YELLOW, CLASS 2 TYPE A TRAFFIC STRIPE (5"WIDE)	250	LF		
22	PAVEMENT MARKINGS (STOP BAR AND CROSSWALK STRIPING)	1,125	SF		
23	HANDICAP PAVEMENT MARKINGS	550	SF		
24	SINGLE WING S-INLET	2	EA		
25	18" RCP	32	LF		
26	TOPSOIL	3,100	CY		
27	SOLID SODDING (TIFWAY 419 BERMUDA)	14,900	SY		
28	SEEDING	1	AC		
29	ROADWAY SIGNAGE	1	LS		
30	LANDSCAPE	1	LS		
31	IRRIGATION	1	LS		
32	TRAFFIC CONTROL	1	LS		
33	ELECTRICAL (LIGHTING INSTALLATION)	1	LS		
34	CONCRETE FLUME WITH TREAD PLATE COVER	4	EA		
35	CONTINGENCY	1	LS	\$ 50,000	\$ 50,000
TOTAL BASE BID AMOUNT:					

ADDITIVE BID ITEMS					
ITEM	DESCRIPTION	ESTIMATED QUANTITY		UNIT PRICE	BID AMOUNT
A-1	AMPHITHEATER IMPROVEMENTS				
A-1.1	SILT FENCE (AMPITHEATER)	725	LF		
A-1.2	EROSION CONTROL PRODUCT, (WATTLES)	3	EA		
A-1.3	UNCLASSIFIED EXCAVATION	575	CY (TBM)		
A-1.4	BORROW EXCAVATION	200	CY (TBM)		
A-1.5	CONCRETE SIDEWALK, 4" THICK	170	SY		
A-1.6	TOPSOIL	630	CY		
A-1.7	SOLID SOD (TIFWAY 419 BERMUDA)	5,400	SY		
A-1.8	ADA ARCHITECTURAL IMPROVEMENTS	1	LS		
A-1.9	IRRIGATION	1	LS		
A-1.10	ELECTRICAL	1	LS		
A-1 TOTAL ADDITIVE BID AMOUNT:					
A-2	SOFTBALL FIELD DRAINAGE AND LANDSCAPE IMPROVEMENTS				
A-2.1	SILT FENCE	150	LF		
A-2.2	EROSION CONTROL PRODUCT, (WATTLES)	11	EA		
A-2.3	DRAINAGE IMPROVEMENTS	1	LS		
A-2.4	CONCRETE SIDEWALK	50	SY		
A-2.5	CONCRETE STAIR	1	EA		
A-2.6	TOPSOIL, 4" DEPTH	70	CY		
A-2.7	SOLID SOD, (TIFWAY 419 BERMUDA)	400	SY		
A-2.8	LANDSCAPE	1	LS		
A-2 TOTAL ADDITIVE BID AMOUNT:					
A-3	PICKLEBALL COURT	1	LS		
A-3 TOTAL ADDITIVE BID AMOUNT:					
A-4	TENNIS COURT FENCING IMPROVEMENTS	1	LS		
A-4 TOTAL ADDITIVE BID AMOUNT:					

(Note: In case of error in the extension of prices, the unit price will govern). **Bids shall be provided in whole dollar amount with no cents.**

PARK SITE AND LIGHTING IMPROVEMENTS CONTINGENCY ALLOWANCE:
\$50,000.00 lump sum Contingency Allowance shall be included in the Total Base Bid for work related to unforeseen conditions as approved by the Owner.

BID SECURITY: The undersigned Bidder agrees that the attached Bid Security, as a Cashier's Check drawn on a bank registered to do business in the State of Alabama and which is a member of the Federal Deposit Insurance Corporation, or a Bid Bond, made payable to the City of Mobile, in the amount of 5% of the bid amount, but in no event more than \$10,000, as the proper measure of liquidated damages which the City will sustain by the failure of the undersigned to execute the Contract. Said Bid Security shall become the property of the City of Mobile as liquidated damages as specified in the Contract Documents.

AMERICANS WITH DISABILITIES ACT (ADA): The undersigned Bidder agrees to fully comply with all requirements of the Americans with Disabilities Act of 1990 and the Amendment Act.

NONDISCRIMINATION: Contractor shall comply with all Federal, State and local laws concerning nondiscrimination, including but not limited to City of Mobile Ordinance No. 14-034 which requires, *inter alia*, that all contractors performing work for the City of Mobile not discriminate on the basis of race, creed, color, national origin or disability, require that all subcontractors they engage do the same, and make every reasonable effort to assure that fifteen percent of the work performed under contract be awarded to socially and economically disadvantaged individuals and business entities.

SIGNATURE: If the undersigned Bidder is incorporated, the entire legal title of the company followed by "a corporation" should be used. If Bidder is an individual, then that individual's full legal name followed by doing business as (d/b/a) and name of firm, if any, should be used. If Bidder is a partnership, then full name of each partner should be listed followed by "d/b/a" and name of firm, if any.

Ensure that name and exact arrangement thereof is the same on all forms submitted with this Bid. If a word is abbreviated in the official company name, such as "Co.", then use that abbreviation. If not abbreviated in the official name, spell out.

Bidder agrees not to revoke or withdraw this Bid until sixty (60) calendar days following the time and date for receipt of bids. If notified in writing of the acceptance of this Bid within this time period, Bidder agrees to execute a Contract based on this Bid on the proscribed form within ten (10) calendar days of said notification and to furnish Performance Bond and Materials and Payment Bond as specified.

COMPANY NAME: _____
(Printed or Typed)

BY: _____
(Signature of Company Officer)

COMPANY OFFICER: _____
(Printed or Typed)

TITLE _____ **DATE** _____, 2024
(Printed or Typed)

Sworn to and subscribed before me this _____ day of _____ 2024

Notary Public

- Attachments: 1. Bid Security, with Power of Attorney
2. Secretary of State Authorization (Out of state bidders only)
3. Sales Tax Form C-3A
4. Supplier Diversity Subcontracting & Major Supplier Plan

END OF SECTION 00400

This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and approval by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

ELECTRICAL SPECIFICATIONS

1. GENERAL ELECTRICAL:
 - 1.1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM AS INDICATED WITHIN THESE DRAWINGS. ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES AND WITH MANUFACTURER'S RECOMMENDATIONS.
 - 1.2. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS PRIOR TO SUBMITTING HIS BID. THE CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND CONNECT ALL ITEMS AS INDICATED ON THE DRAWINGS.
 - 1.3. THE ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICTS, OR INTERFERENCES THAT OCCUR BETWEEN INDIVIDUAL DRAWINGS.
 - 1.4. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN A NEAT, FIRST CLASS, WORKMANLIKE MANNER, TO THE APPROVAL OF THE ARCHITECT/ENGINEER AND GOVERNING AUTHORITIES.
 - 1.5. IN ADDITION TO THE MANUFACTURERS STANDARD GUARANTEES, THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP AGAINST DEFECTS FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE, AND SHALL CORRECT ANY DEFECTS AT NO ADDITIONAL COST TO THE OWNER. ALL LAMPS SHALL BE GUARANTEED FOR 30 DAYS AFTER ACCEPTANCE.
 - 1.6. THE LOADS SHOWN FOR APPLIANCES AND EQUIPMENT ARE BASED ON DESIGN INFORMATION. THE CONTRACTOR SHALL VERIFY ALL APPLIANCE LOADS PRIOR TO RUNNING THE CIRCUIT. THE MINIMUM CIRCUIT REQUIREMENTS SHALL BE BASED ON THE APPLIANCE NAMEPLATE VALUE OR CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED FOR APPLIANCE MODIFICATIONS BY THE CONTRACTOR.
 - 1.7. PRIOR APPROVAL: PRIOR APPROVAL SHALL BE REQUIRED FOR ANY MANUFACTURER OTHER THAN THOSE LISTED FOR ALL SPECIFIED ITEMS IN THESE DRAWINGS. SUBMIT ALL REQUESTS FOR PRIOR APPROVAL 2 WEEKS PRIOR TO BID OPENING. ENGINEER'S APPROVAL WILL BE IN THE FORM OF AN ADDENDUM.
2. CODES & STANDARDS:
 - 2.1. INSTALLATION AND MATERIALS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES & STANDARDS:
 - 2.1.1. NATIONAL ELECTRICAL CODE.
 - 2.1.2. NFPA 72. NATIONAL FIRE PROTECTION CODE.
 - 2.1.3. INTERNATIONAL BUILDING CODE.
 - 2.1.4. INTERNATIONAL ENERGY CONSERVATION CODE.
 - 2.1.5. NFPA 101.
 - 2.1.6. ADA.
 - 2.1.7. ANSI.
 - 2.1.8. NEMA.
 - 2.1.9. OSHA.
 - 2.1.10. UL.
3. ALTERATIONS & ADDITIONS TO EXISTING WORK:
 - 3.1. PROVIDE ALL NECESSARY ADDITIONS AND ALTERATIONS TO EXISTING WORK AS REQUIRED TO PROVIDE AND MAINTAIN A COMPLETE AND PROPER ELECTRICAL INSTALLATION.
 - 3.2. AS NECESSARY, RELOCATE EXISTING ELECTRICAL WORK SO OTHER TRADES CAN PURSUE THEIR WORK.
 - 3.3. MAINTAIN POWER TO EXISTING PORTIONS OF BUILDINGS FED FROM OR THROUGH AREA IN SCOPE OF THIS CONTRACT.
 - 3.4. COORDINATE ALL REQUIRED OUTAGES WITH OWNER.
4. BASIC MATERIALS & METHODS:
 - 4.1. ALL POWER AND DISTRIBUTION CABLING SHALL BE COPPER TYPE THWN/THHN.
 - 4.2. ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED OUTDOORS SHALL BE WEATHERPROOF.
 - 4.3. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE AND PROPER SUPPORT FOR ALL ELECTRICAL OUTLETS, DEVICES, LIGHT FIXTURES, ETC. BUILT IN OR MOUNTED ON CEILINGS. NO OUTLET BOX, DEVICE, LIGHT FIXTURE, ETC. SHALL BE SUPPORTED FROM ANY ACOUSTICAL CEILING TILE OR DRYWALL CEILINGS. PROVIDE METAL SUPPORTS THAT ARE MADE FOR USE WITH CEILING GRID SYSTEMS OR PROVIDE HANGERS FROM STRUCTURE ABOVE.
 - 4.4. CONDUIT ROUTINGS AND DEVICE/EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTOR SHALL FIELD ROUTE AND LOCATE AS REQUIRED. CONDUIT ROUTINGS SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING LINES.
 - 4.5. JUNCTION BOXES LOCATED ABOVE CEILING SHALL BE INSTALLED FACING DOWN AND SHALL BE ACCESSIBLE AFTER INSTALLATION.
 - 4.6. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES AND STRUCTURAL COMPONENTS.
 - 4.7. THE CONDUIT MATERIAL SHALL BE AS FOLLOWS:
 - 4.7.1. BELOW GRADE - RNC (POWER & SITE LIGHTING ONLY). ELBOWS >1-1/2" SHALL BE RGS.
 - 4.7.2. RISER FROM 36" BELOW GRADE - RGS.
 - 4.7.3. CONCEALED RISER FROM 36" BELOW GRADE - RNC (POWER ONLY).
 - 4.7.4. ABOVE GRADE SUBJECT TO PHYSICAL ABUSE - RGS.
 - 4.7.5. ABOVE GRADE NOT SUBJECT TO PHYSICAL ABUSE OR WEATHER - EMT.
 - 4.7.6. INDOORS NOT SUBJECT TO PHYSICAL ABUSE - EMT. OR METAL CLAD CABLE (AS ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION).
 - 4.7.7. FINAL CONDUIT CONNECTIONS TO HEAT PUMPS, AIR HANDLERS, EXHAUST FANS, AND WATER HEATERS SHALL BE LFMC WHETHER INTERIOR OR EXTERIOR.
 - 4.8. CONDUIT FITTINGS SHALL BE AS FOLLOWS:
 - 4.8.1. EMT - <=2" USE STEEL SET SCREW WITH INSULATED THROATS FOR INTERIOR/ USE COMPRESSION FITTINGS WITH INSULATED THROATS FOR EXTERIOR, >2" USE SET-SCREW STEEL WITH INSULATED THROATS.
 - 4.8.2. RGS - THREADED GALVANIZED STEEL.
 - 4.8.3. PVC - PVC APPROVED FOR THE USE.
 - 4.8.4. FMC - ZINC-PLATED STEEL OR CADMIUM-PLATED MALLEABLE IRON SCREW TYPE WITH INSULATED THROAT.
 - 4.8.5. LFMC - CADMIUM-PLATED MALLEABLE IRON OR STEEL COMPRESSION TYPE WITH INSULATED THROAT.
 - 4.9. ALL OUTLET BOXES SHALL BE 4"x4"x1-1/2" DEEP MINIMUM.
 - 4.10. ELECTRICAL CONTRACTOR SHALL WORK CLOSELY WITH THE MASONRY CONTRACTOR ON THE INSTALLATION OF ALL ELECTRICAL BOXES, CABINETS, RINGS, ETC. IN MASONRY WALLS. THE BOXES SHALL BE INSTALLED AT THE UNIFORM HEIGHTS CALLED FOR ON THE DRAWINGS AND SPECIFICATIONS. PROVIDE APPROPRIATE DEPTH MASONRY RINGS FOR ALL OUTLETS IN MASONRY WALLS TO INSURE PROPER CUTTING AND FITTING. THE FACE OF THE CABINETS, BOXES, RINGS, ETC. SHALL BE PLUMB AND FLUSH WITH THE FACE OF THE FINISH MATERIAL. ANY CABINET, OUTLET BOX, ETC. NOT MEETING THE ABOVE REQUIREMENT SHALL BE REMOVED AND REINSTALLED AT NO ADDITIONAL COST TO THE OWNER.
 - 4.11. ALL SIDEWALKS AND PARKING LOT ASPHALT AREAS THAT ARE CUT DUE TO NEW ELECTRICAL SERVICES SHALL BE REPAIRED TO MATCH EXISTING.
 - 4.12. ALL DIMENSIONS TO DEVICES AFF SHALL BE TO CENTERLINE UNLESS NOTED OTHERWISE.
 - 4.13. COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, ETC., WITH ARCHITECTURAL PLANS, ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN WORK.

5. GROUNDING & BONDING:
 - 5.1. PROVIDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS.
 - 5.2. GROUND RODS SHALL BE 3/4"x20' COPPERCLAD STEEL.
 - 5.3. BELOW GRADE CONNECTIONS SHALL BE EXOTHERMIC TYPE.
 - 5.4. ALL CABLES SHALL BE COPPER, ALL BOLTED CONNECTIONS SHALL BE BRONZE.
 - 5.5. WHERE AVAILABLE, BOND TO BUILDING STRUCTURAL STEEL, BUILDING FOUNDATION STEEL, METAL WATER SERVICE PIPING.
 - 5.6. PROVIDE THREE 20' GROUND RODS IN TRIANGLE ARRANGEMENT ON 20' CENTERS FOR MADE ELECTRODE SYSTEM. THE ELECTRICAL CONTRACTOR SHALL BOND NEW COPPER CLAD GROUND RODS WITH TINNED STRANDED BARE COPPER CONDUCTOR.
6. IDENTIFICATION:
 - 6.1. PROVIDE ENGRAVED 1"x3" PHENOLIC LABELS FOR ALL PANELBOARDS, SAFETY SWITCHES, TRANSFORMERS, CABINETS, ETC.
 - 6.2. PAINT THE RACEWAY SYSTEM COUPLINGS AND BOX COVERS ABOVE CEILINGS FOR THE FOLLOWING SYSTEMS AS FOLLOWS:
 - 6.2.1. 208 / 240 VOLT SYSTEMS - BLACK.
 - 6.2.2. 480 VOLT SYSTEMS - BROWN.
7. GENERAL WIRING DEVICES:
 - 7.1. SWITCHES - SPECIFICATION GRADE, 20 AMP, COLOR BY ARCHITECT.
 - 7.2. RECEPTACLES - SPECIFICATION GRADE, 20 AMP, NEMA 5-20R, COLOR BY ARCHITECT.
 - 7.3. COVER PLATES - NYLON, COLOR BY ARCHITECT.
 - 7.4. SPECIAL RECEPTACLES - PER THE DRAWINGS, VERIFY WITH EQUIPMENT BEING SUPPLIED.
 - 7.5. APPROVED MANUFACTURERS - HUBBELL, LEVITON, EAGLE, PASS & SEYMOUR.
8. SAFETY SWITCHES:
 - 8.1. HEAVY DUTY, VISIBLE BLADE, LOCKABLE, QUICK-MAKE/QUICK-BREAK, HORSEPOWER RATED, FUSED WHERE INDICATED.
 - 8.2. PROVIDE WITH GROUND LUG KIT.
 - 8.3. INTERIOR - NEMA 1.
 - 8.4. EXTERIOR - NEMA 3R.
 - 8.5. APPROVED MANUFACTURERS - SQUARE D, GENERAL ELECTRIC, SIEMENS.
9. MOTOR STARTERS:
 - 9.1. MANUAL TYPE SHALL BE TOGGLE WITH THERMAL OVERLOAD.
 - 9.2. MAGNETIC TYPE SHALL HAVE SOLID STATE OVERLOAD RELAY WITH Ø LOSS AND Ø UNBALANCE PROTECTION, HOA SWITCH, RED RUN AND GREEN STOP LED LIGHTS.
 - 9.3. INTERIOR - NEMA 1.
 - 9.4. EXTERIOR - NEMA 3R.
 - 9.5. APPROVED MANUFACTURERS - SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER, SIEMENS.
10. PANELBOARDS:
 - 10.1. FRONT ACCESSIBLE, BOLT-ON MOLDED CASE C/Bs, COPPER PHASE & NEUTRAL BUSSING, COPPER GROUND BAR, FULLY RATED (SERIES RATING NOT ALLOWED).
 - 10.2. ENCLOSURES SHALL BE DOOR-IN-DOOR CONSTRUCTION.
 - 10.3. INTERIOR - NEMA 1.
 - 10.4. ALL INTERIOR PANELBOARDS ARE TO HAVE FOUR SPARE 3/4" CONDUITS INSTALLED TO AN ACCESSIBLE SPACE FOR FUTURE.
 - 10.5. EXTERIOR - NEMA 3R.
 - 10.6. PROVIDE TYPE-WRITTEN DIRECTORY IN CLEAR SLEEVE ON INSIDE OF DOOR.
 - 10.7. APPROVED MANUFACTURERS - SQUARE D, GENERAL ELECTRIC, SIEMENS.
11. DRY-TYPE TRANSFORMERS <600V:
 - 11.1. 150° RISE.
 - 11.2. COPPER WINDINGS.
 - 11.3. PROVIDE WITH 4" HIGH CONCRETE HOUSEKEEPING PAD.
 - 11.4. GROUND SECONDARY TO NEAREST BUILDING STEEL.
 - 11.5. APPROVED MANUFACTURERS - SQUARE D, GENERAL ELECTRIC, SIEMENS.

SUMMARY OF WORK - THE SCOPE OF THIS PROJECT CONSISTS OF:

SCOPE OF WORK:
FIELDS C & D

REMOVING AND REPLACING THE EXISTING FIELD LIGHTING FOR SOFTBALL FIELDS "C" AND "D" WITH NEW LED FIXTURES AND CONTROLS. A NEW MAIN PANEL AND A NEW LIGHTING CONTROL PANEL WILL BE INSTALLED ON A NEW GALVANIZED PEDESTAL TO SERVE THE NEW LIGHTING UPGRADES. FIXTURES, POLES, AND CONTROLS ARE PROVIDED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR.

TENNIS CENTER

REMOVING AND REPLACING THE EXISTING TENNIS COURT LIGHTING (AND ASSOCIATED CONTROLS) WITH NEW MUSCO LED FIXTURES. THE NEW LIGHTS ARE TO BE RECONNECTED TO THE EXISTING CIRCUITS WITH NEW CONTROLS. EXISTING CIRCUIT (CONDUIT AND CONDUCTORS) TO BE REPLACED FROM THE POLE HANDHOLE TO THE NEW LIGHT FIXTURE. FIXTURES AND CONTROLS ARE PROVIDED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR.

AMPHITHEATER - ADDITIVE ALTERNATE #1

REMOVING AND REPLACING THE EXISTING AMPHITHEATER WALL MOUNTED LIGHTING WITH NEW LED FIXTURES. THE NEW LIGHTS ARE TO BE RECONNECTED TO THE EXISTING CIRCUITS. EXISTING STAGE LIGHTS ARE TO REMAIN, NEW SWITCHES ARE TO BE PROVIDED AND INSTALLED SO END USER HAS LOCAL CONTROL. REMOVING AND REPLACING THE EXISTING GFCI RECEPTACLES WITH NEW DEVICES AND COVERS. NEW CITY STANDARD BOLLARD LIGHTS ARE TO BE PROVIDED AND INSTALLED ALONG THE NEW PATHWAY.

ENTRANCE SIGN

A NEW ENTRANCE SIGN (PROVIDED AS A PART OF THIS CONTRACT - SEE LANDSCAPE ARCHITECTURAL PLANS AND DETAILS FOR MORE INFORMATION). THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NEW CIRCUIT TO SERVE THE NEW SIGN.

CONCESSION BUILDING SERVICE RECONFIGURATION

THE CONCESSION BUILDING IS CURRENTLY SERVED FROM THE EXISTING TRANSCLOSURE TO BE REMOVED. THE CONCESSION BUILDING IS TO BE RESERVED FROM A NEW BREAKER FROM THE EXISTING RE-PURPOSED 3Ø VOLT PANEL AND NEW STEP DOWN TRANSFORMER.

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG NUMBER			TOTAL WATTS	VOLTAGE	MOUNTING	NOTES
		TYPE	WATTS				
MRW	LITHONIA LIGHTING MRW LED P4 40K SR2 MVOLT PIR DDBXD	LED	61	61	MVOLT	SURFACE	SURFACE MOUNTED EXTERIOR LED WALL SCNCE PROVIDE WITH EMERGENCY BATTERY BACK UP MOUNTED 8' AFF UNLESS OTHERWISE NOTED
AL	HESS AMERICA LIGHTING MSC1100/1-NW-JNV-XX	LED	15	15	MVOLT	CONCRETE FOUNDATION	LED BOLLARD FIXTURE COORDINATE FINISH WITH OWNER / ARCHITECT
NOTES: FIXTURES WITH HALF FILLED IN CENTER SHALL BE PROVIDED WITH AN EMERGENCY BALLAST, 1100 LUMENS OR THE MAXIMUM AVAILABLE FOR THE FIXTURE.							
PROVIDE ALL MOUNTING HARDWARE, SUPPORTS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.							
COORDINATE FINAL FIXTURE SELECTION WITH OWNER / ARCHITECT PRIOR TO ORDER.							

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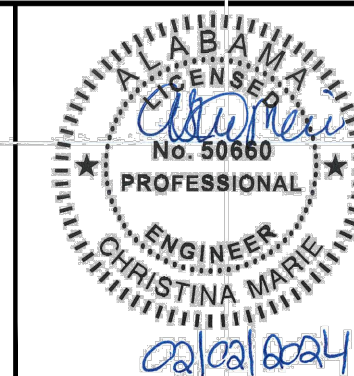


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KHA PROJECT 142920003
DATE FEBRUARY 05, 2024
SCALE AS SHOWN
DESIGNED BY: CM
DRAWN BY: CM
CHECKED BY: AWM

**MEDAL OF HONOR PARK SITE
AND LIGHTING IMPROVEMENTS**
PREPARED FOR
CITY OF MOBILE

CITY OF MOBILE



ALABAMA

ELECTRICAL SPECIFICATIONS

SHEET NUMBER

E1.0




MEP Engineering
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DELL CONSULTING PROJECT: 22-118

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ELECTRICAL LEGEND

MISCELLANEOUS EQUIPMENT:

 ELECTRICAL CONNECTION TO EQUIPMENT. VERIFY LOCATION WITH EQUIPMENT PROVIDER.


LIGHTING CONTROL EQUIPMENT:

 PROGRAMMABLE LIGHTING CONTROL PANEL. SEE DETAIL.

DISTRIBUTION & POWER EQUIPMENT:


 PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.

 DISTRIBUTION PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.

 NEC 110.26(A) WORKING CLEARANCE.

 NON-FUSED HEAVY DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.

 FUSED HEAVY DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.

 FLOOR MOUNTED TRANSFORMER WITH CONCRETE HOUSEKEEPING PAD. SEE TRANSFORMER SCHEDULE FOR SIZE AND TYPE.

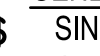
SITE EQUIPMENT:


 HANDHOLE. SEE DETAIL.

 MANHOLE. SEE DETAIL.

 PAD-MOUNTED TRANSFORMER.

GENERAL ELECTRICAL DEVICES:


 SINGLE POLE LIGHTING SWITCH. MOUNT 48" TO TOP OF BOX AFF UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS:
 DEVICE WITH DIECAST WEATHERPROOF BACKBOX & DIECAST WEATHERPROOF COVERPLATE.


 DUPLEX RECEPTACLE NEMA 5-20R. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS:
 G - GROUND FAULT CIRCUIT INTERRUPTER (GFI) TYPE.
 WP - GFI DEVICE WITH DIECAST WEATHERPROOF BACKBOX & DIECAST WEATHERPROOF (IN-USE) COVERPLATE. IN EXTERIOR LOCATIONS MOUNT 30" AFG. WEATHERPROOF OUTLET BOX HOODS ARE TO BE LISTED AND IDENTIFIED AS "EXTRA-DUTY".


OTHER:

 CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.

 CIRCUIT RUN CONCEALED IN OR BELOW FLOOR SLAB OR UNDERGROUND.

 HOMERUN TO PANELBOARD. ANY CIRCUIT WITHOUT FURTHER DESIGNATION SHALL BE 2#12, #12G, 3/4" C. TICK MARKS INDICATE # OF CONDUCTORS (EGC NOT SHOWN). MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 50 FEET SHALL BE #10 AWG. MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 100 FEET SHALL BE #8 AWG. MINIMUM SIZE ON 277V HOMERUNS GREATER THAN 160 FEET SHALL BE #6 AWG. MINIMUM SIZE ON 277V HOMERUNS GREATER THAN 100 FEET SHALL BE #10 AWG. INCREASE CONDUIT SIZE AS REQUIRED PER NEC. UNDERLINED TEXT INDICATES CIRCUIT DESIGNATION.

 LOW VOLTAGE CABLE AS SPECIFIED BY THE MANUFACTURER.

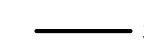
 LIGHT FIXTURE IDENTIFICATION TAG. SEE LIGHT FIXTURE SCHEDULE FOR SYMBOLS & DETAILS.

 SHEET NOTE TAG.

 PANELBOARD, SWITCHBOARD, TRANSFORMER & ELECTRICAL EQUIPMENT IDENTIFICATION TAG.

 LEADERS.

UNDERGROUND CONDUIT SYSTEM LEGEND

 SITE LIGHTING

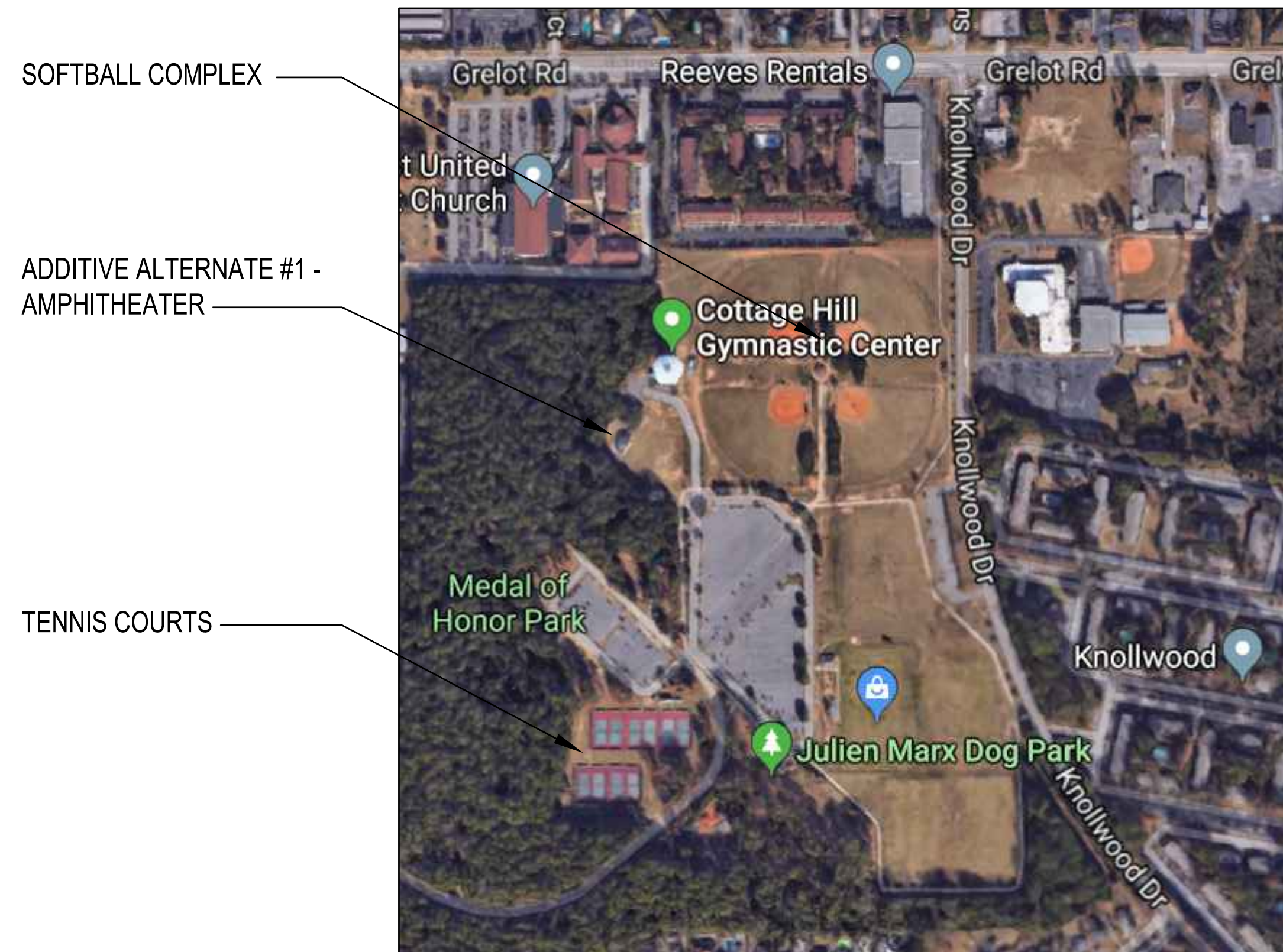
 POWER

LIGHTING FIXTURES:

SEE LIGHTING FIXTURE SCHEDULE FOR SYMBOLS AND DESCRIPTIONS. THE FIXTURE MARK IN AN ENCLOSED SPACE WITH SIMILAR FIXTURES WILL APPLY TO ALL FIXTURES IN THE SPACE.

ABBREVIATIONS

A	AMPS	MCM	THOUSAND CIRCULAR MILS
AC	ABOVE COUNTER	MH	MANHOLE
AF	AMP FRAME	MIN	MINIMUM
AFF	ABOVE FINISHED FLOOR	MISC	MISCELLANEOUS
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AHU	AIR HANDLING UNIT	MNT	MOUNTING HEIGHT
AL	ALUMINUM	MTG	MOUNTING
ARCH	ARCHITECT OR ARCHITECTURAL	MTS	MANUAL TRANSFER SWITCH
AT	AMP TRIP	MV	MEDIUM VOLTAGE
ATS	AUTOMATIC TRANSFER SWITCH	N1	NEMA 1
ATU	AIR TERMINAL UNIT	N3R	NEMA 3R
AWG	AMERICAN WIRE GAUGE	N/A	NOT APPLICABLE
BAS	BUILDING AUTOMATION SYSTEM	NA	NOT APPLICABLE
BFG	BELOW FINISHED GRADE	NEC	NATIONAL ELECTRICAL CODE
BJ	BONDING JUMPER	NESC	NATIONAL ELECTRICAL SAFETY CODE
BKR	CIRCUIT BREAKER	NEU	NEUTRAL
BLDG	BUILDING	OCPD	OVERCURRENT PROTECTION DEVICE
BOD	BASIS OF DESIGN	OFOI	OWNER FURNISHED OWNER INSTALLED
C	CONDUIT	OFCl	OWNER FURNISHED CONTRACTOR INSTALLED
C/B	CIRCUIT BREAKER	OH	OVERHEAD
CL	CURRENT LIMITING	OHE	OVERHEAD ELECTRIC
C/L	CENTERLINE	OHP	OVERHEAD PRIMARY
CLG	CEILING	OHS	OVERHEAD SECONDARY
CKT	CIRCUIT	PBD	PANELBOARD
CT	CURRENT TRANSFORMER	PF	POWER FACTOR
CU	COPPER	PNL	PANELBOARD
DDC	DIRECT DIGITAL CONTROL	PT	POTENTIAL TRANSFORMER
DEMO	DEMOLISH	PWR	POWER
EC	ELECTRICAL CONTRACTOR	REC	RECEPTACLE
EGC	EQUIPMENT GROUNDING CONDUCTOR	REQD	REQUIRED
ELEC	ELECTRICAL	RM	ROOM
EMGB	ELECTRICAL MAIN GROUNDING BUSBAR	RGS	RIGID GALVANIZED STEEL CONDUIT
EF	EXHAUST FAN	RNC	RIGID NON-METALLIC CONDUIT
EX	EXISTING TO REMAIN	RVSS	REDUCED VOLTAGE SOLID STATE
EXT	EXTERIOR	SA	SURGE ARRESTER
EWC	ELECTRIC WATER COOLER	SCA	SHORT CIRCUIT AMPS
EMT	ELECTRICAL METALLIC TUBING	SF	SUPPLY FAN
EQUIP	EQUIPMENT	SPEC	SPECIFICATION
FMC	FLEXIBLE METAL CONDUIT	SWBD	SWITCHBOARD
FACP	FIRE ALARM SYSTEM CONTROL PANEL	SWGR	SWITCHGEAR
FU	FUSE	TBB	TELECOMMUNICATIONS BONDING BACKBONE
F/A	FIRE ALARM	TR	TELECOMMUNICATIONS ROOM
FLA	FULL LOAD AMPS	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
FLR	FLOOR	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
FVNR	FULL VOLTAGE NON-REVERSING	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GFI	GROUND FAULT INTERRUPTER	TYP	TYPICAL
G	GROUND (OR GFI FOR RECEPTACLE SUBSCRIPT)	UFR	UNDERFLOOR RACEWAY
GC	GENERAL CONTRACTOR	UG	UNDERGROUND
GND	GROUND	UGE	UNDERGROUND ELECTRIC
GEC	GROUNDING ELECTRODE CONDUCTOR	UGP	UNDERGROUND PRIMARY
HH	HANDHOLE	UGS	UNDERGROUND SECONDARY
HOA	HAND-OFF-AUTOMATIC	UL	UNDERWRITERS' LABORATORIES
HP	HEAT PUMP OR HORSEPOWER	UNO	UNLESS NOTED OTHERWISE
HVAC	HEATING, VENTILATION & AIR-CONDITIONING	UPS	UNINTERRUPTIBLE POWER SUPPLY
IG	ISOLATED GROUND	V	VOLT
IMC	INTERMEDIATE METAL CONDUIT	VA	VOLT-AMPERES
JB	JUNCTION BOX	VAR	VOLT-AMPERES REACTIVE
k	KILO	VAV	VARIABLE AIR VOLUME UNIT
KAIC	KILO-AMPERE INTERRUPTING CAPABILITY	W	WATTS
KCMIL	THOUSAND CIRCULAR MILS	WAO	WORK AREA OUTLET
LCP	LIGHTING CONTROL PANEL	WP	WEATHERPROOF
LTG	LIGHTING	WSR	WITHSTAND RATING
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT	XFMR	TRANSFORMER
LV	LOW VOLTAGE	XP	EXPLOSION PROOF
MAX	MAXIMUM	φ	PHASE
MCA	MINIMUM CIRCUIT AMPACITY	72°	DEGREES
MCC	MOTOR CONTROL CENTER	Δ	DELTA
MCE	MAIN COMMUNICATIONS EQUIPMENT ROOM	Ω	OHMS



DRAWING #	DRAWING DESCRIPTION:
E1.0	ELECTRICAL SPECIFICATIONS
E1.1	ELECTRICAL LEGEND
E2.0	EXISTING OVERALL PLAN
E2.1	EXISTING SOFTBALL FIELD LAYOUT
E2.2	EXISTING TENNIS COURT LAYOUT
E2.3	ADDITIVE ALTERNATE #1 - EXISTING AMPHITHEATER LAYOUT
E3.0	NEW WORK OVERALL PLAN
E3.1	NEW WORK SOFTBALL FIELD LAYOUT
E3.2	NEW WORK TENNIS COURT LAYOUT
E3.3	ADDITIVE ALTERNATE #1 - NEW WORK AMPHITHEATER LAYOUT
E4.0	ELECTRICAL DETAILS
E4.1	ELECTRICAL SCHEDULES
E4.2	ELECTRICAL RISERS
E4.3	ADDITIVE ALTERNATE #1 - AMPHITHEATER SCHEDULES & DETAILS

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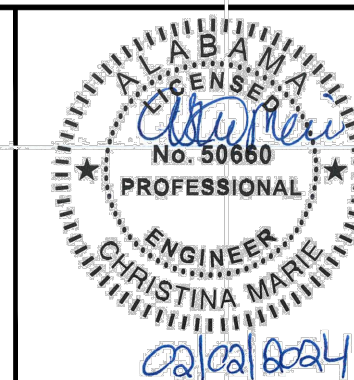
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KHA PROJECT 142920003
DATE FEBRUARY 05, 2024
SCALE AS SHOWN
DESIGNED BY: CM
DRAWN BY: CM
CHECKED BY: AWM

**MEDAL OF HONOR PARK SITE
 AND LIGHTING IMPROVEMENTS**
 PREPARED FOR
CITY OF MOBILE

CITY OF MOBILE

ALABAMA



**ELECTRICAL LEGEND
 AND ABBREVIATIONS**

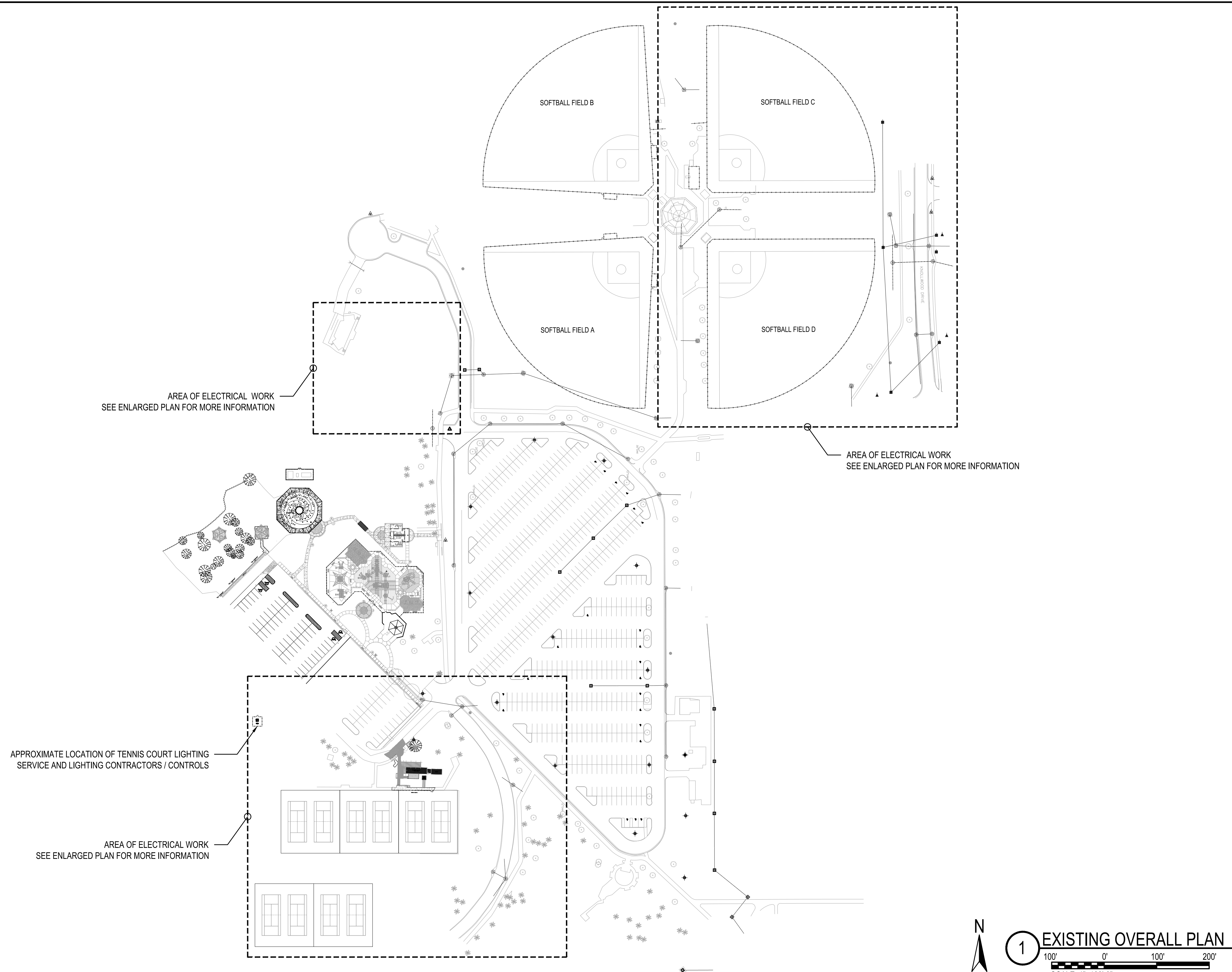
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E1.1



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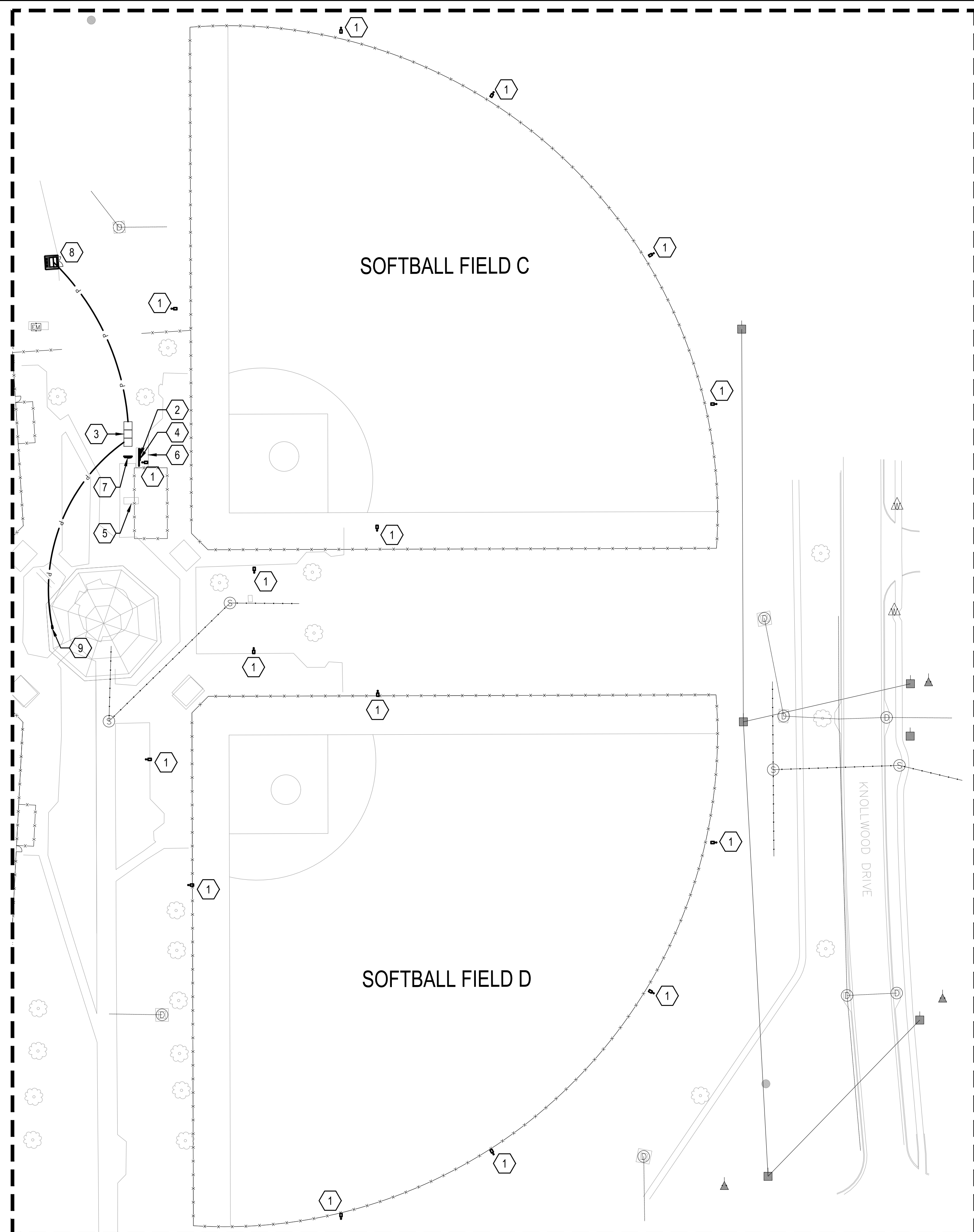
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EXISTING OVERALL PLAN

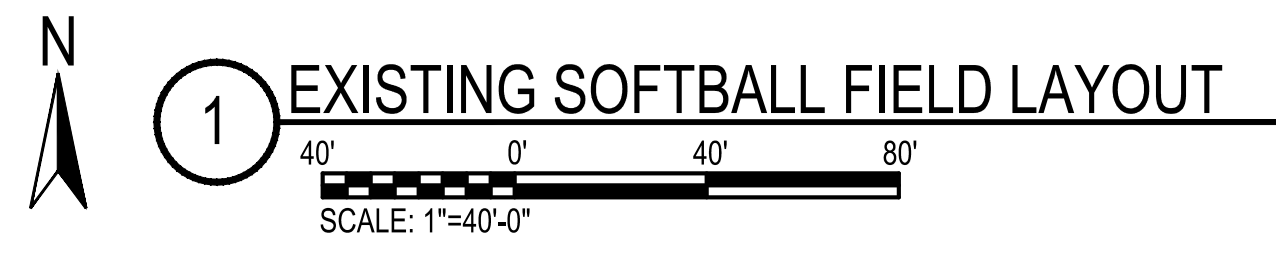
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SHEET NOTES

- 1 APPROXIMATE LOCATION OF THE EXISTING FIELD LIGHTING TO BE REMOVED AND REPLACED NEW PER THE NEW WORK LIGHTING PLAN. THE ELECTRICAL CONTRACTOR SHALL COMPLETELY REMOVE THE POLE, FIXTURE AND ALL ASSOCIATED CONDUIT, CONDUCTORS, ETC. THE POLE SHALL BE REMOVED TO AT LEAST 2' BELOW FINISHED GRADE AND BACK FILLED / TAMPED TO GRADE LEVEL.
- 2 APPROXIMATE LOCATION OF THE EXISTING SERVICE FEEDING FIELDS "C" AND "D" TO BE MODIFIED PER NEW WORK PLANS.
- 3 APPROXIMATE LOCATION OF THE EXISTING ALABAMA POWER COMPANY TRANSCLASURE TO BE REMOVED.
- 4 APPROXIMATE LOCATION OF THE EXISTING LIGHTING CONTACTORS FOR FIELDS "C" AND "D" TO BE REMOVED AND REPLACED NEW PER NEW WORK PLANS.
- 5 APPROXIMATE LOCATION OF EXISTING WELL (BEING REMOVED AS A PART OF THIS CONTRACT - REFERENCE CIVL PLANS FOR MORE INFORMATION). THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ABANDONED ELECTRICAL EQUIPMENT AND ASSOCIATED WIRE, CONDUCTORS, ETC. RELATED TO THE WELL. FIELD COORDINATE WELL WITH OWNER PRIOR TO BEGINNING ANY WORK.
- 6 APPROXIMATE LOCATION OF EXISTING ELECTRICAL EQUIPMENT (ALABAMA POWER COMPANY METERS) AND ASSOCIATED CONCRETE PAD TO BE REMOVED AND REPLACED NEW PER NEW WORK PLANS. ALL WORK IS TO BE COORDINATED WITH ALABAMA POWER COMPANY AS REQUIRED.
- 7 APPROXIMATE LOCATION OF EXISTING ELECTRICAL EQUIPMENT TO BE COMPLETELY REMOVED. EXISTING CIRCUITS TO REMAIN SHALL BE RE-FED FROM EXISTING PANEL PER NEW WORK PLANS.
- 8 APPROXIMATE LOCATION OF EXISTING ALABAMA POWER COMPANY TRANSFORMER TO REMAIN - SEE NEW WORK PLANS FOR MORE INFORMATION.
- 9 APPROXIMATE LOCATION OF EXISTING CONCESSION BUILDING MAIN SERVICE PANEL. THE CONCESSION BUILDING IS CURRENTLY SERVED FROM THE EXISTING TRANSCLASURE TO BE REMOVED. THE EXISTING FEEDER SERVING THE EXISTING CONCESSION BUILDING IS TO BE REMOVED AND REPLACED NEW.



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1 EXISTING SOFTBALL FIELD LAYOUT

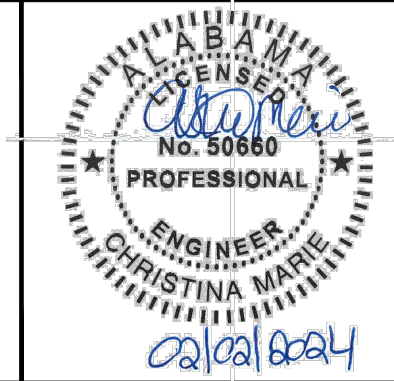
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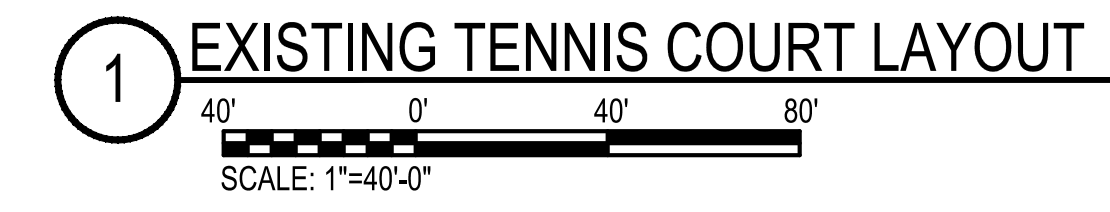
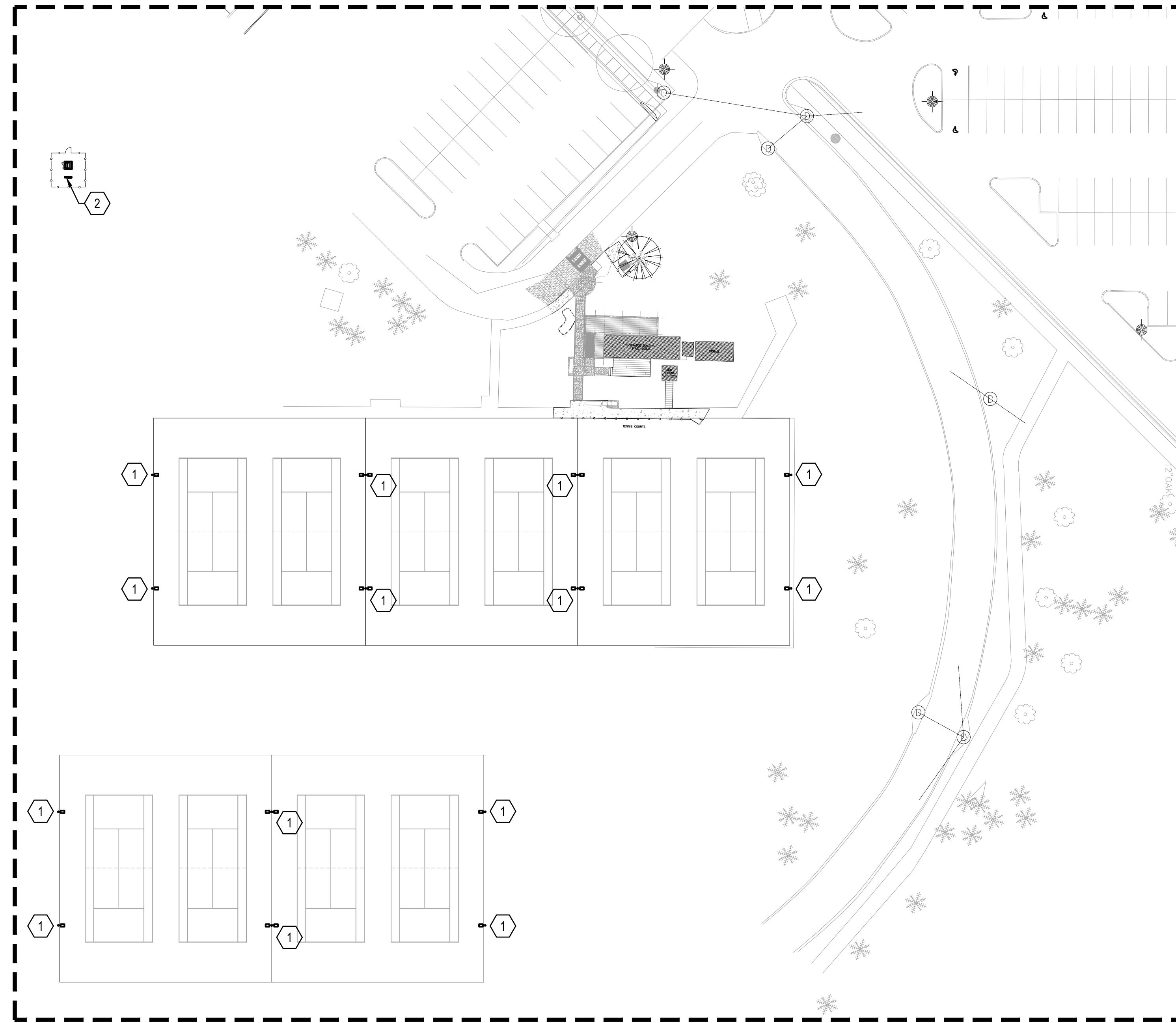
EXISTING SOFTBALL FIELD LAYOUT

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E2.1

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SHEET NOTES

- ① APPROXIMATE LOCATION OF THE EXISTING TENNIS COURT LIGHTING AND MOUNTING HARDWARE IS TO BE REMOVED AND REPLACED NEW PER NEW WORK PLANS. THE EXISTING LIGHT POLE IS EXISTING TO BE REUSED FOR NEW WORK. EXISTING CIRCUIT (CONDUIT AND CONDUCTORS) TO BE REPLACED FROM THE NEAREST POLE HANDHOLE TO THE NEW LIGHT FIXTURE.
- ② APPROXIMATE LOCATION OF EXISTING TENNIS COURT LIGHTING CONTROLS TO BE REMOVED AND REPLACED NEW PER NEW WORK PLANS.



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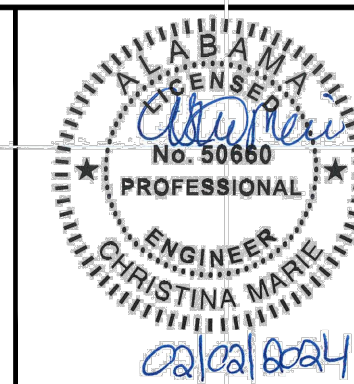
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MEDAL OF HONOR PARK SITE
 AND LIGHTING IMPROVEMENTS
 PREPARED FOR
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EXISTING TENNIS COURT LAYOUT

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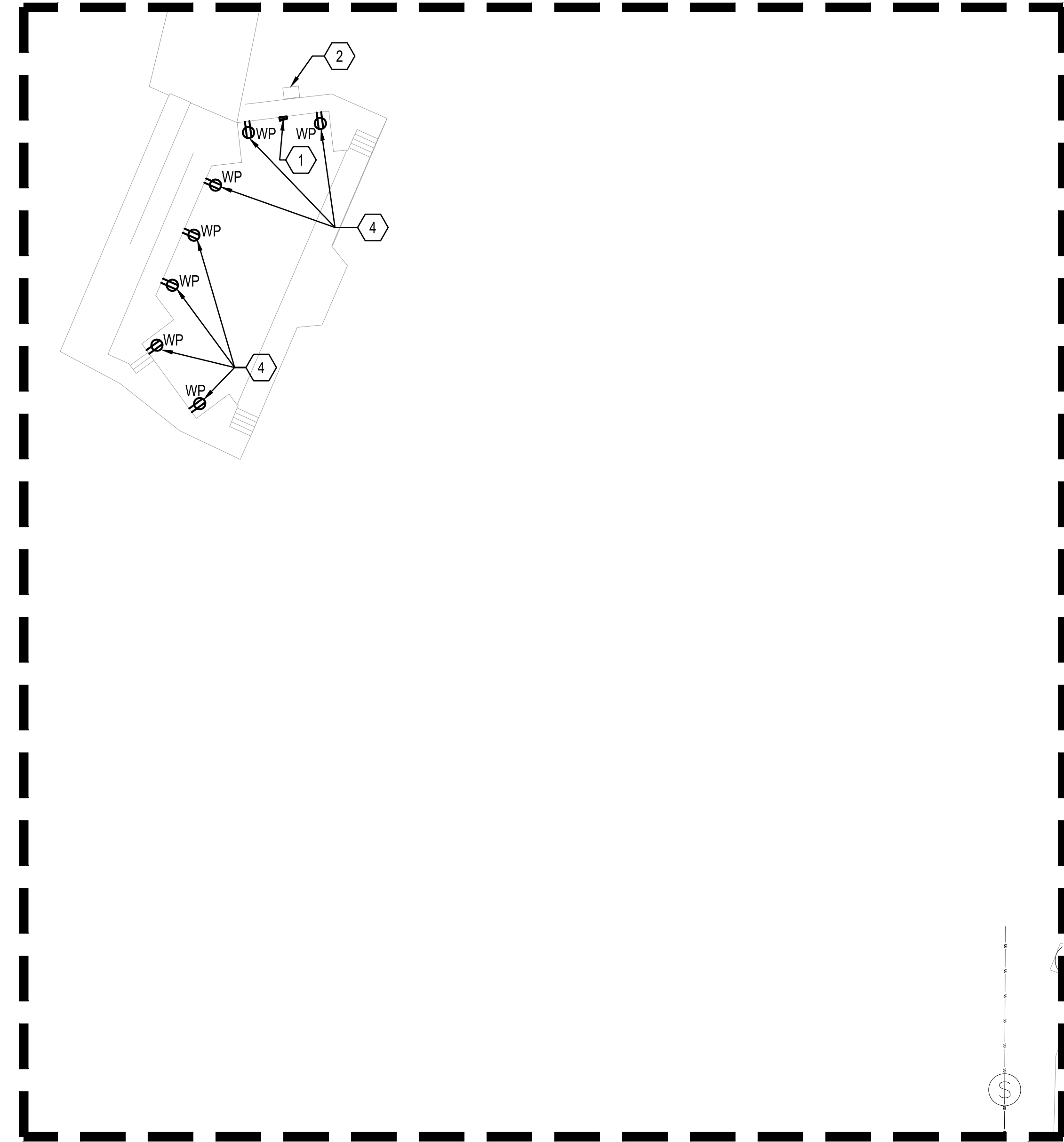
SHEET NOTES

- 1 APPROXIMATE LOCATION OF EXISTING ELECTRICAL PANEL TO REMAIN.
- 2 APPROXIMATE LOCATION OF EXISTING ELECTRICAL SERVICE TO REMAIN.
- 3 APPROXIMATE LOCATION OF EXISTING EXTERIOR EGRESS LIGHT FIXTURE TO BE REPLACED PER NEW WORK PLANS.
- 4 APPROXIMATE LOCATION OF EXISTING GFCI RECEPTACLE TO BE REPLACED PER NEW WORK PLANS.
- 5 EXISTING STAGE LIGHTING TO REMAIN.



**ADDITIVE ALTERNATE #1 -
EXISTING AMPHITHEATER LIGHTING**

SCALE: 1"=20'-0"



**ADDITIVE ALTERNATE #1 -
EXISTING AMPHITHEATER POWER**

SCALE: 1"=20'-0"

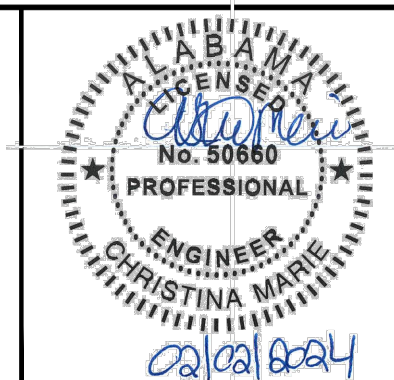
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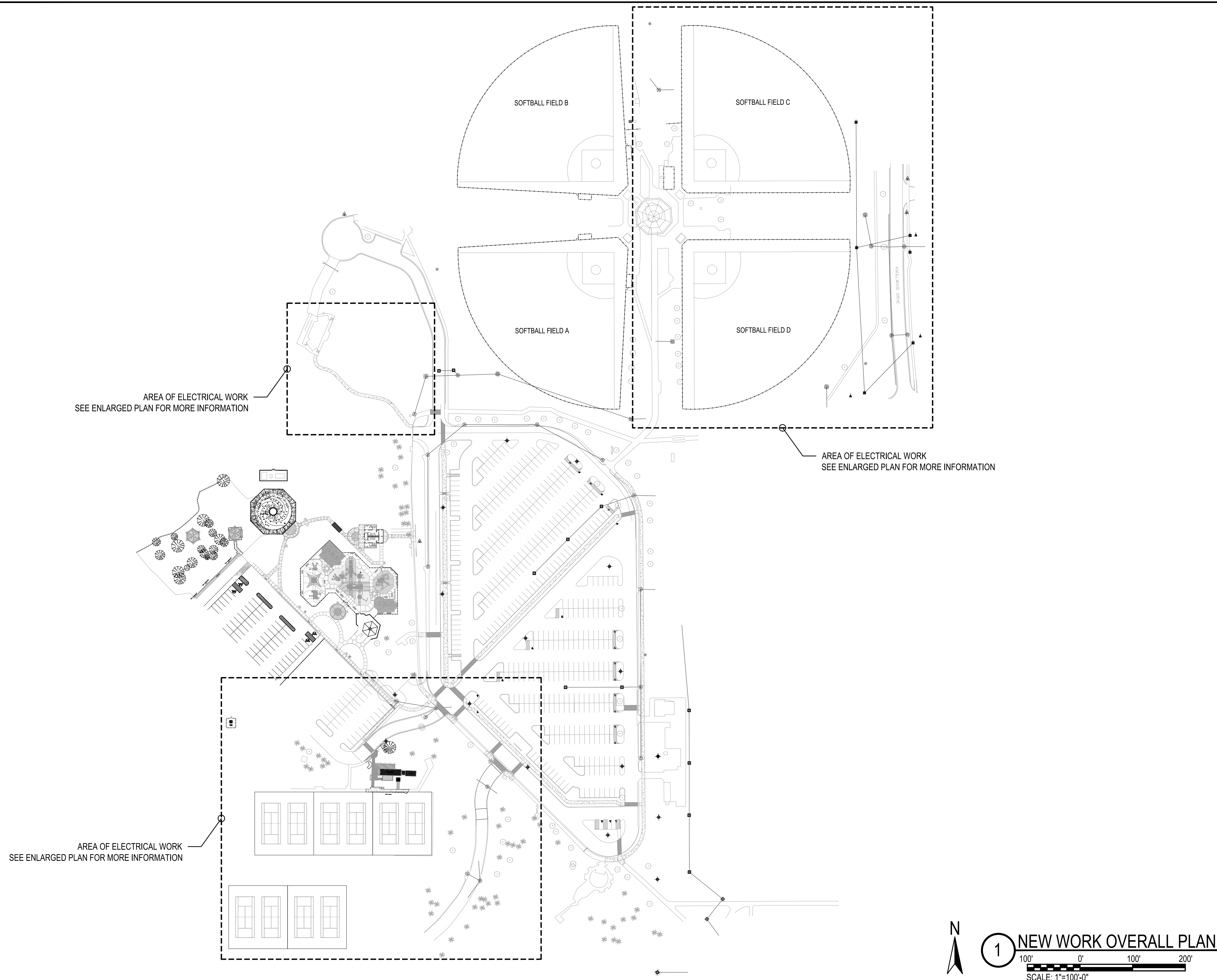
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**ADDITIVE ALTERNATE #1 -
EXISTING AMPHITHEATER LAYOUT**

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1 NEW WORK OVERALL PLAN
 100' 0' 100' 200'
 SCALE: 1"=100'-0"

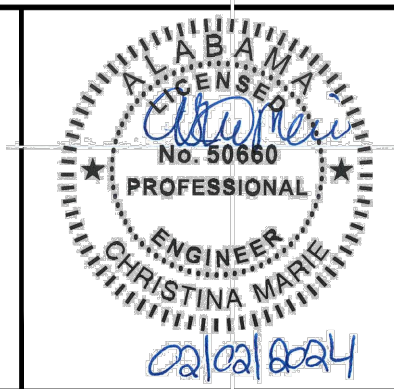
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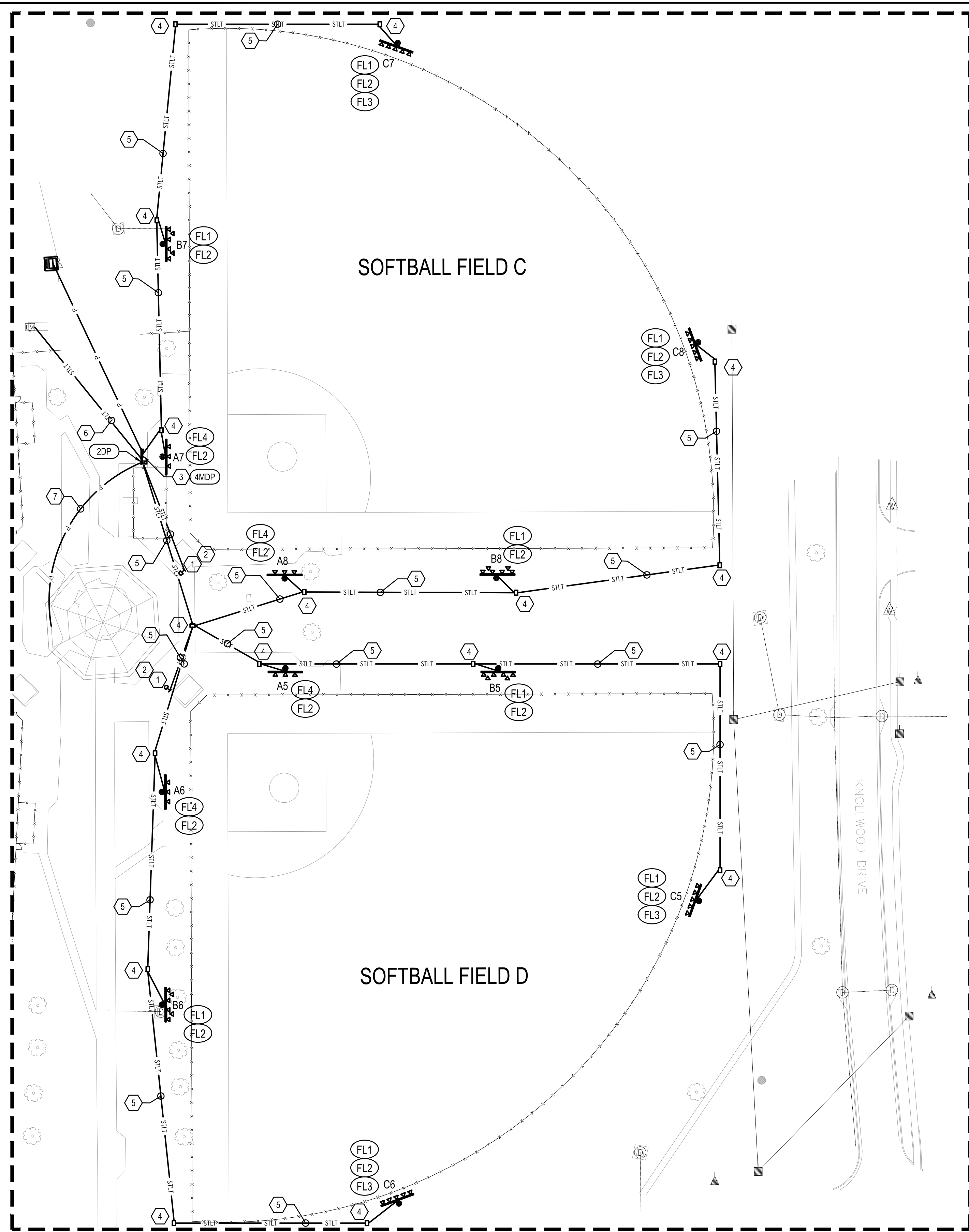
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NEW WORK OVERALL PLAN

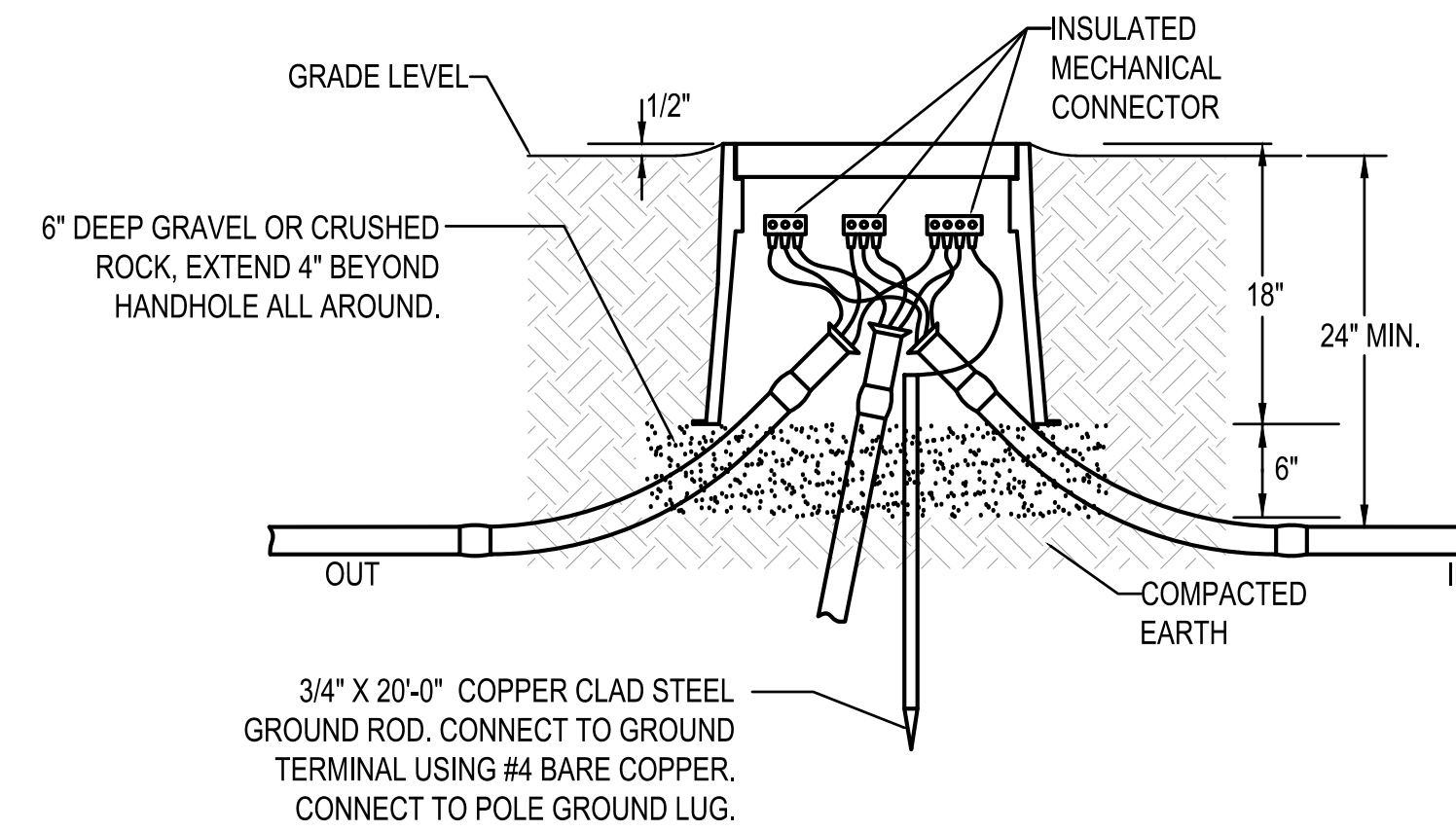
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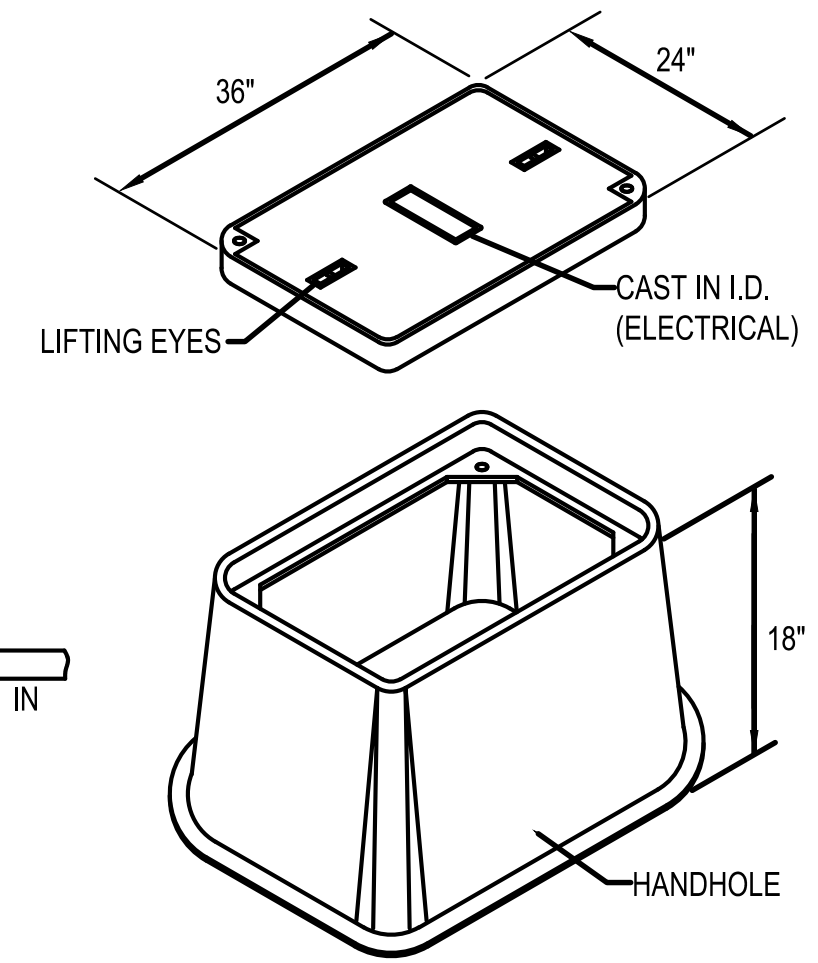


SHEET NOTES

- 1 A MOMENTARY PUSH-BUTTON CONTROL UNIT SHALL BE PROVIDED TO ALLOW PLAYERS TO TURN THE LIGHTING SYSTEM ON OR OFF DURING TIMES ALLOWED BY OWNER. ONCE A PLAYER PUSHES THE "ON" BUTTON, THE LIGHTS WILL COME ON FOR A PRESET TIME OF 1 MINUTE TO 160 MINUTES. AT THE END OF THE SPECIFIED PERIOD, A STROBE WILL START FLASHING FOR APPROXIMATELY 3 MINUTES. DURING THIS TIME, PLAYERS WILL BE ABLE TO PUSH THE "ON" BUTTON AGAIN TO CONTINUE PLAY, OR THE LIGHTS WILL GO OFF.
- 2 THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TRANSFORMER FOR THE PUSH-BUTTON UNIT INSTALLATION.
- 3 APPROXIMATE LOCATION OF THE NEW SOFTBALL FIELD 480 VOLT PEDESTAL.
- 4 THE HANDHOLE BOXES FOR THE LIGHTING CIRCUITS ARE TO BE QUAZITE BOX #PG 2436BA24 WITH "ELECTRICAL" ENGRAVED IN THE PG2436HA00 LID. PROVIDE A MINIMUM OF 3" OF GRAVEL IN THE BOTTOM OF THE BOX.
- 5 THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL 1-1/4" CONDUITS AS REQUIRED. SEE DIAGRAM FOR MORE INFORMATION.
- 6 THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 1" CONDUIT FROM THE EXISTING MUSCO CONTROL CABINET TO THE NEW MUSCO CONTROL CABINET.
- 7 THE EXISTING CONCESSION BUILDING IS TO BE SERVED BY A NEW BREAKER FROM THE EXISTING RE-PURPOSED 3Ø PANEL "2DP" MOUNTED ON THE NEW PEDESTAL. SEE SINGLE LINE RISER DIAGRAM FOR MORE INFORMATION. SEE SINGLE LINE RISER DIAGRAM FOR MORE INFORMATION. ONCE THE CONCESSION BUILDING IS PROVIDED WITH POWER, THE ELECTRICAL CONTRACTOR IS TO CHECK ALL VOLTAGES AT THE PANELS TO ENSURE NO EQUIPMENT WILL HAVE ANY ISSUES.



INSTALLATION DETAIL



CONSTRUCTION DETAIL

HANDHOLE AS QUAZITE PG2436HH0017 BOX COMPLETE WITH PG2436HA0017 COVER. COVER SHALL BE TRAFFIC RATED FOR 22,500 LBS.

HANDHOLE NOTES:

1. HANDHOLE SHALL HAVE LOGO CAST IN COVER (LOGO=ELECTRICAL). INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND THESE REQUIREMENTS.
2. TERMINATE CONDUITS ENTERING HANDHOLE WITH END BELL. CONSTRUCT CONDUIT RISE TO ENTER BOX FROM SIDE WITH 22-1/2" SWEEP ELBOWS.
3. CONDUITS ENTERING AND LEAVING HANDHOLE SHALL BE SEALED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLES 514 AND 501.15.

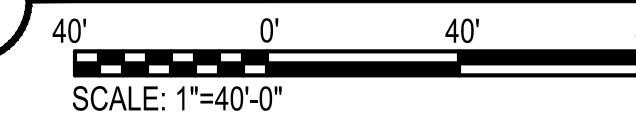
2 ELECTRICAL HANDHOLE DETAIL

NOT TO SCALE

NOTE:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ASPECTS OF THE INSTALLATION OF THE NEW MUSCO SYSTEM WITH MUSCO PRIOR TO BEGINNING ANY WORK. THE NEW SYSTEM IS TO BE INSTALLED PER THE DIRECTION AND RECOMMENDATION OF MUSCO.

1 NEW WORK SOFTBALL FIELD LAYOUT



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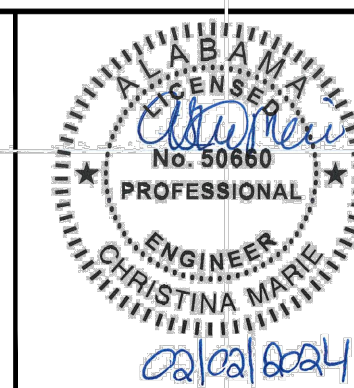
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CITY OF MOBILE



ALABAMA

NEW WORK SOFTBALL FIELD LAYOUT

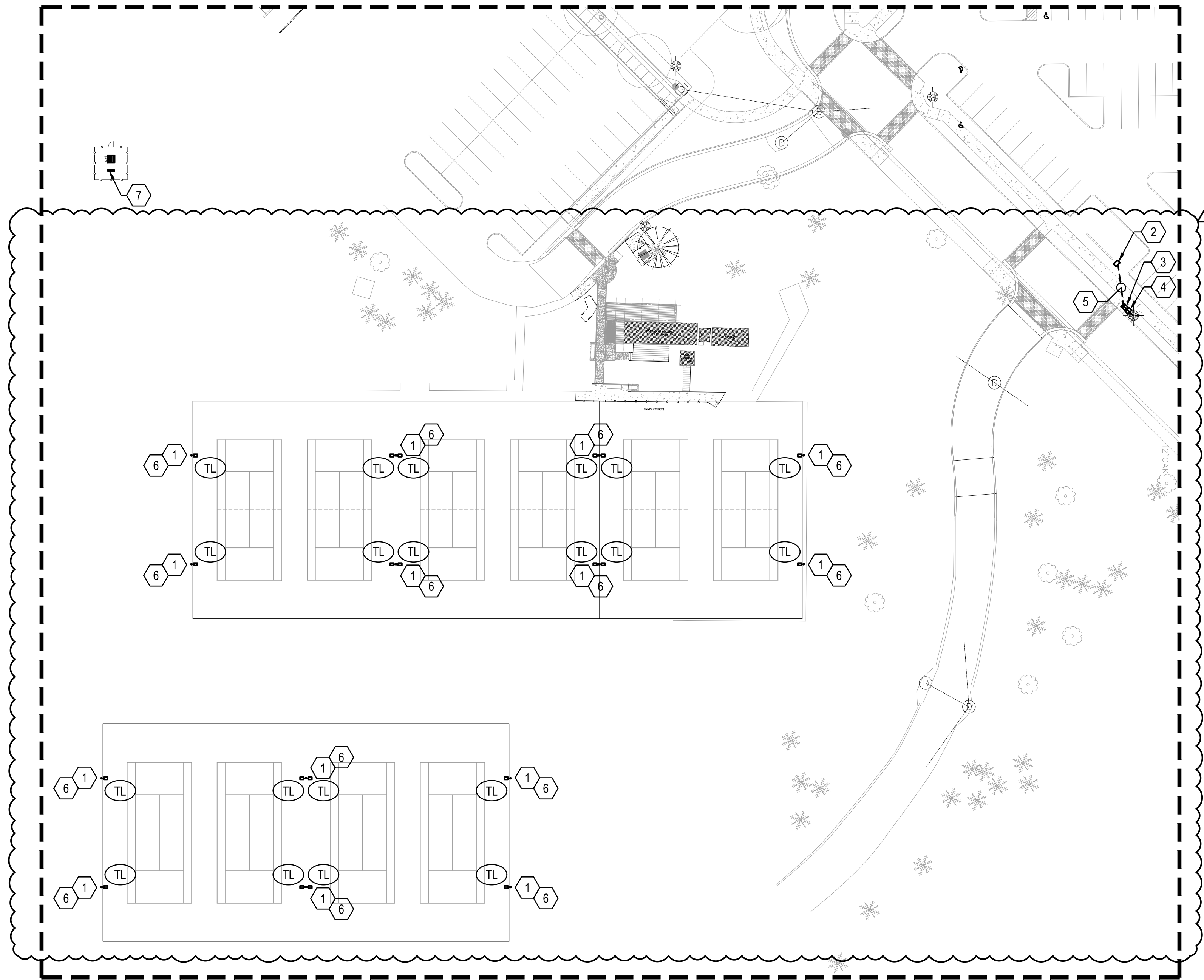
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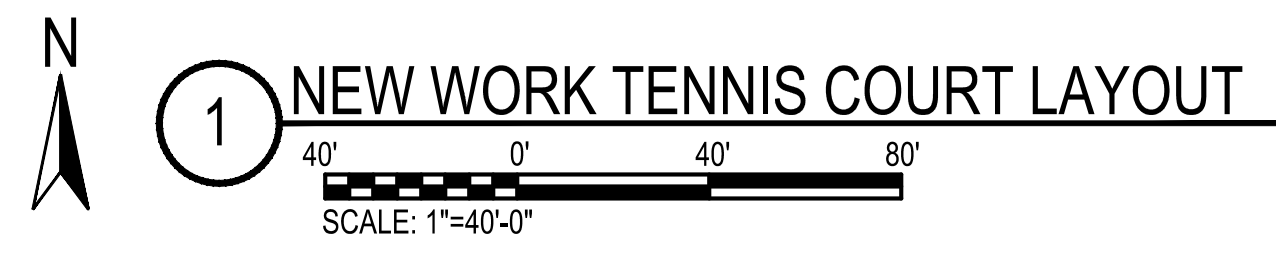
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- ### SHEET NOTES
- 1 THE CONTRACTOR SHALL PROVIDE, MODIFY AND INSTALL NEW MOUNTING HARDWARE AS REQUIRED BY THE MANUFACTURER (MUSCO) FOR A FULL AND CLEAN INSTALLATION OF NEW FIXTURES.
 - 2 APPROXIMATE LOCATION OF NEW FUTURE ENTRANCE SIGN. THE CONTRACTOR SHALL PROVIDE AND INSTALL A QUAZITE HANDHOLE AT THE PROPOSED LOCATION.
 - 3 THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 3KVA, 1Ø, 480V PRIMARY TO 120/240 VOLT SECONDARY MINI POWER ZONE SUBSTATION - SQUARE D MPU3S40F OR APPROVED EQUAL TO SERVE THE NEW SIGN. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A GALVANIZED UNISTRUT PEDESTAL WITH A 4" CONCRETE BASE TO MOUNT THE POWER ZONE. THE PEDESTAL SHALL BE MOUNTED ADJACENT TO THE LIGHT POLE. ENSURE THIS PIECE OF EQUIPMENT IS MOUNTED SO THAT THE BOTTOM OF THE EQUIPMENT IS A MINIMUM OF 30" ABOVE THE SLAB.
 - 4 THE CONTRACTOR SHALL DIG DOWN AND INTERCEPT THE EXISTING LIGHT POLE CIRCUIT. THE CONTRACTOR SHALL PROVIDE AND INSTALL A QUAZITE BOX HANDHOLE AT THE LOCATION AND CONNECT THE NEW MINI POWER ZONE TO THE EXISTING CIRCUIT USING INSULATED MECHANICAL LUGS. THE ELECTRICAL CONTRACTOR SHALL SERVE THE NEW MINI POWER ZONE WITH NEW 3#12, #12G IN 3/4" CONDUIT A MINIMUM OF 24" BELOW FINISHED GRADE.
 - 5 THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW 1" CONDUIT (WITH PULL STRING) FROM THE NEW MINI POWER ZONE TO THE NEW HANDHOLE. COORDINATE FINAL LOCATION OF NEW HANDHOLE WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH IN.
 - 6 THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CONDUIT AND CONDUCTORS (#8, #8G) FROM THE POLE HANDHOLE TO THE NEW MUSCO LIGHT FIXTURE.
 - 7 APPROXIMATE LOCATION OF NEW MUSCO CONTACTOR CABINET. THE EXISTING PARKING LOT LIGHTING CIRCUIT SHALL BE ROUTED THROUGH THE NEW LIGHTING CONTROL CABINET

NOTE:
 THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ASPECTS OF THE INSTALLATION OF THE NEW MUSCO SYSTEM WITH MUSCO PRIOR TO BEGINNING ANY WORK. THE NEW SYSTEM IS TO BE INSTALLED PER THE DIRECTION AND RECOMMENDATION OF MUSCO.



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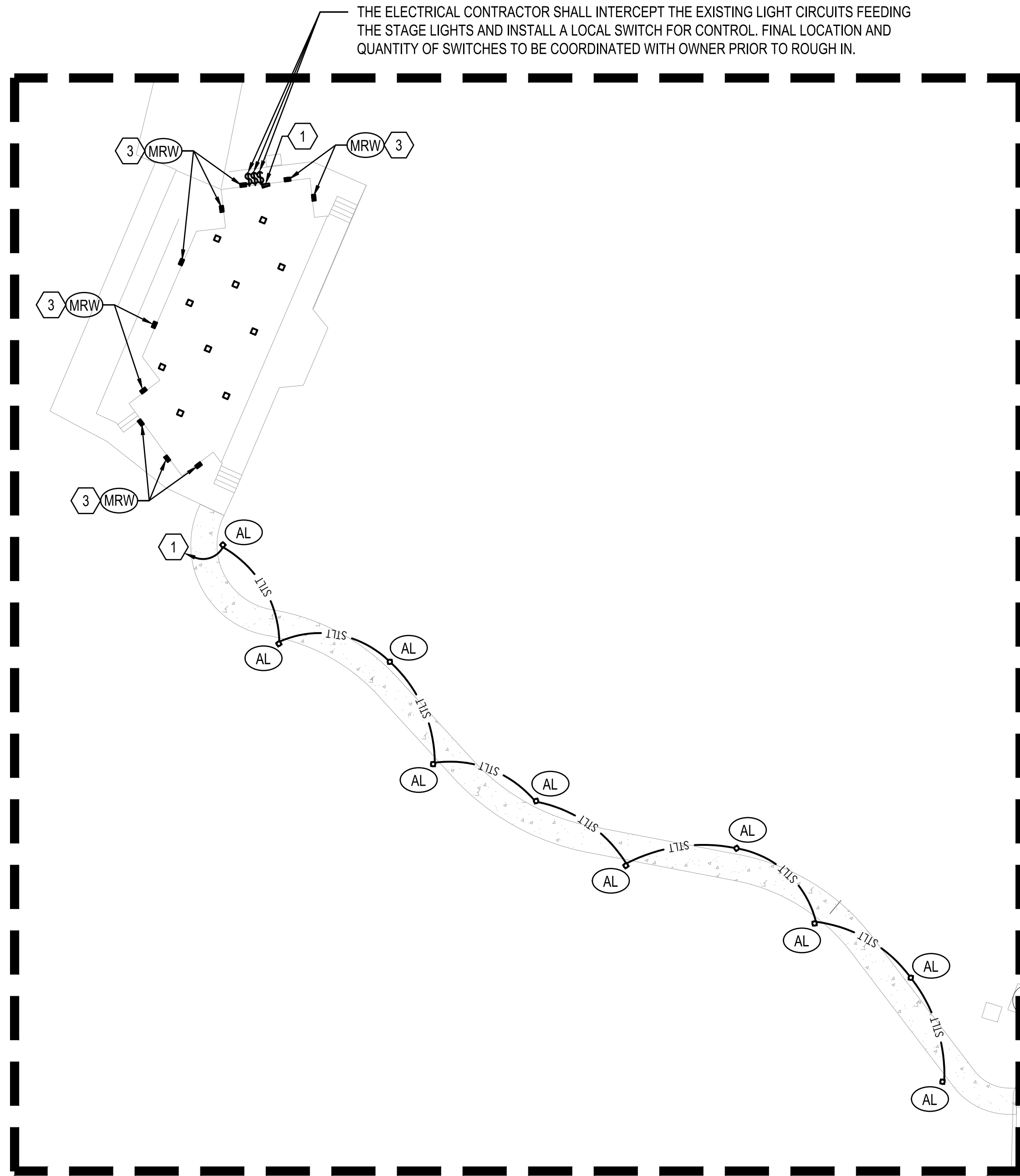
NEW WORK TENNIS COURT LAYOUT

SHEET NUMBER
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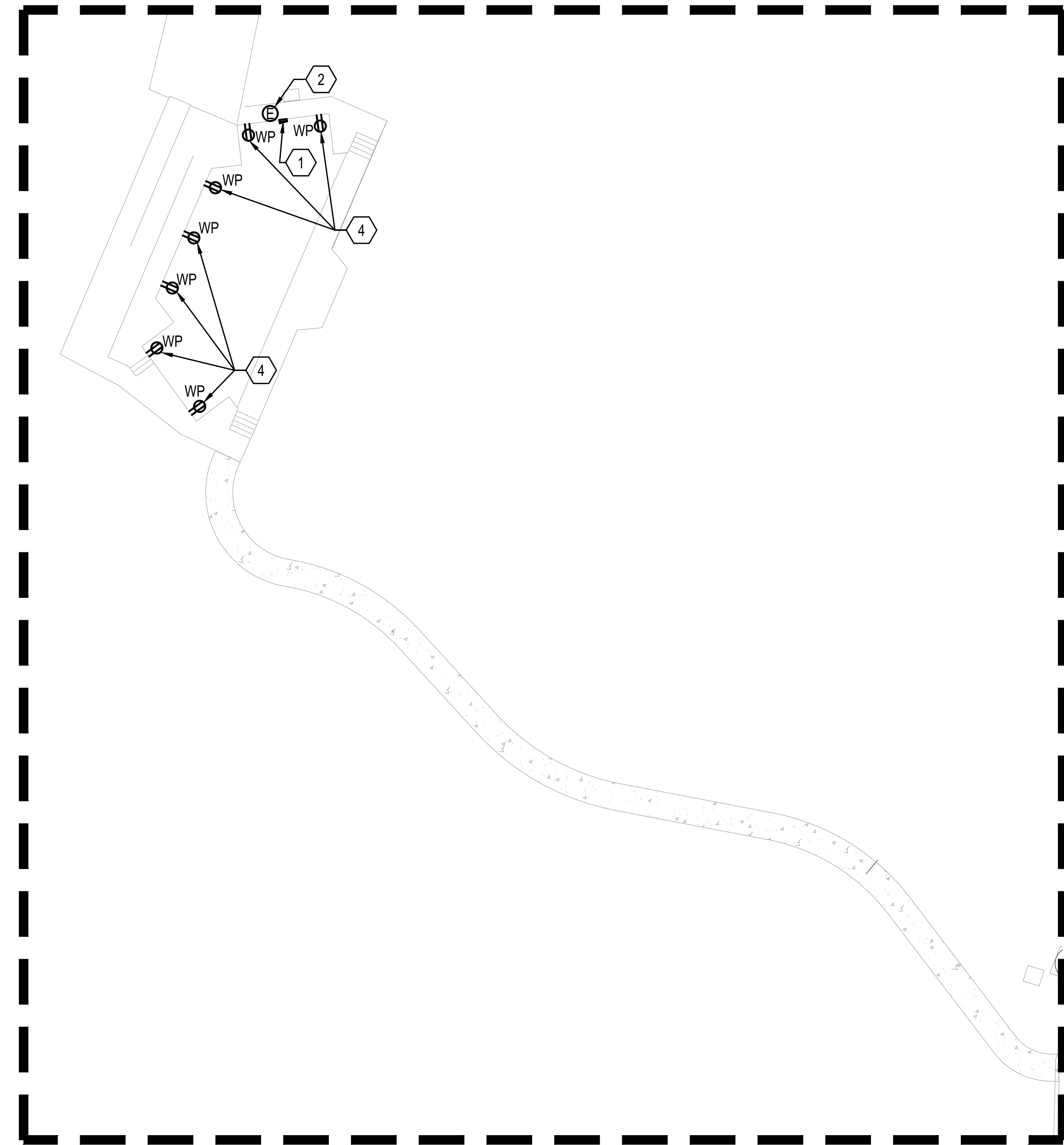
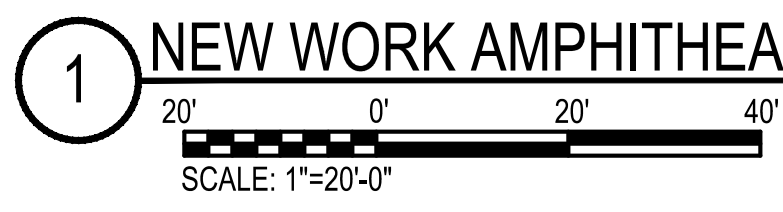
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SHEET NOTES

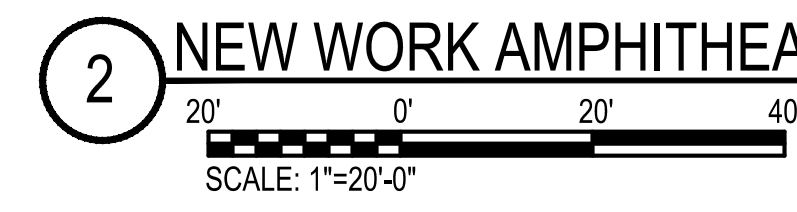
- 1 THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 2#10, #10G IN 3/4" CONDUIT FOR THE NEW PATHWAY LIGHTING. THE CONTRACTOR SHALL SERVE THE NEW LIGHTS FROM AN EXISTING 20/1 SPARE BREAKER IN THE EXISTING PANEL.
- 2 APPROXIMATE LOCATION OF NEW IRRIGATION CONTROLS. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH IN. THE CONTRACTOR SHALL SERVE THE NEW IRRIGATION CONTROLS FROM AN EXISTING 20/1 SPARE BREAKER IN THE EXISTING PANEL.
- 3 THE NEW LIGHTING FIXTURE IS TO BE RECONNECTED TO THE EXISTING CIRCUIT.
- 4 THE ELECTRICAL CONTRACTOR SHALL REPLACE THE EXISTING DEVICE AND COVER WITH A NEW GFCI DEVICE WITH NEW DIECAST WEATHERPROOF (IN-USE) COVERPLATE. THE NEW RECEPTACLE IS TO BE RECONNECTED TO THE EXISTING CIRCUIT.



ADDITIVE ALTERNATE #1 - NEW WORK AMPHITHEATER LIGHTING



ADDITIVE ALTERNATE #1 - NEW WORK AMPHITHEATER POWER



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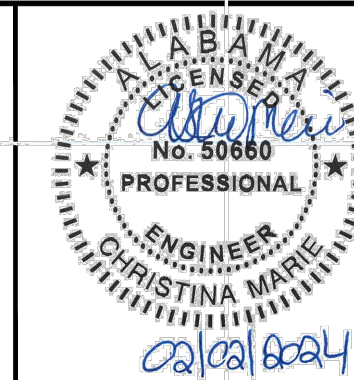
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ADDITIVE ALTERNATE #1-
NEW WORK AMPHITHEATER LAYOUT

SHEET NUMBER

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PANELBOARD SCHEDULE													
MARK: EXISTING 2DP													
CKT #	LOAD DESCRIPTION	BREAKER		PHASE (kVA)			PHASE (kVA)			BREAKER		LOAD DESCRIPTION	CKT #
		P	TRIP	A	B	C	A	B	C	TRIP	P		
1													2
3	OCCUPIED BREAKER	3	40							20	3	OCCUPIED BREAKER	4
5													6
7													8
9	OCCUPIED BREAKER	3	40							20	3	OCCUPIED BREAKER	10
11													12
13													14
15	OCCUPIED BREAKER	3	40							20	3	OCCUPIED BREAKER	16
17													18
19													20
21	OCCUPIED BREAKER	3	40							20	3	OCCUPIED BREAKER	22
23													24
25													26
27	OCCUPIED BREAKER	3	40							50	3	OCCUPIED BREAKER	28
29													30
31													32
33	OCCUPIED BREAKER	3	50							50	3	OCCUPIED BREAKER	34
35													36
37												SPACE	38
39	OCCUPIED BREAKER	3	90									SPACE	40
41										20	1	SPARE	42

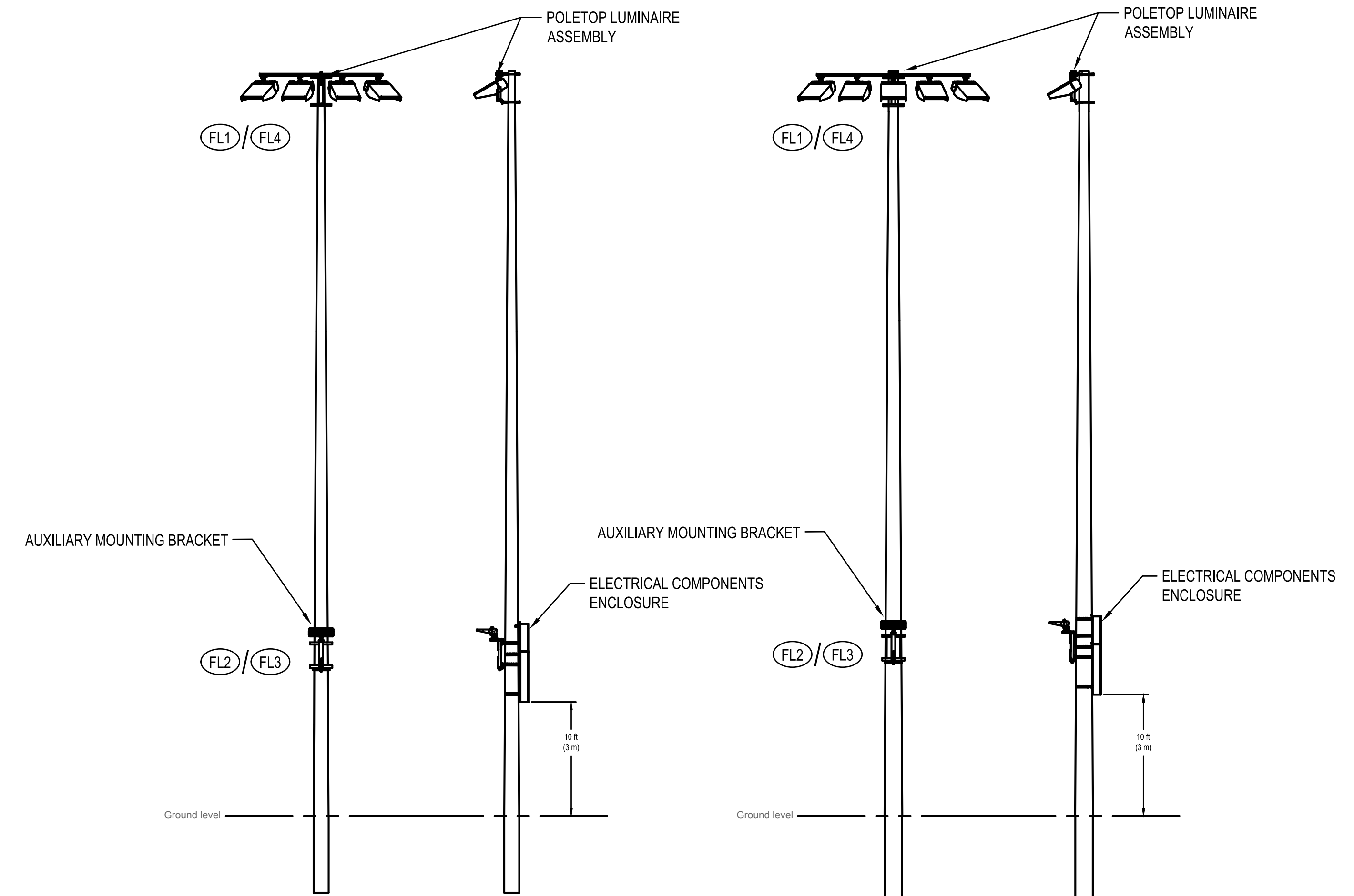
TOTAL (kVA) ØA _____ ØB _____ ØC _____ HIGH PHASE (AMPS) _____
TOTAL CONNECTED LOAD (kVA) _____ TOTAL LOAD (AMPS) _____

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.

PANELBOARD SCHEDULE													
MARK: MODIFIED 2DP													
CKT #	LOAD DESCRIPTION	BREAKER		PHASE (kVA)			PHASE (kVA)			BREAKER		LOAD DESCRIPTION	CKT #
		P	TRIP	A	B	C	A	B	C	TRIP	P		
1				11.0									2
3	EXISTING CONCESSION PANEL	3	100		11.0					20	3	SPARE	4
5						11.0							6
7													8
9	SPARE	3	40							20	3	SPARE	10
11													12
13													14
15	SPARE	3	40							20	3	SPARE	16
17													18
19													20
21	SPARE	3	40							20	3	SPARE	22
23													24
25													26
27	SPARE	3	40							50	3	SPARE	28
29													30
31													32
33	SPARE	3	50							50	3	SPARE	34
35													36
37												SPACE	38
39	SPARE	3	90									SPACE	40
41										20	1	SPARE	42

TOTAL (kVA) ØA 11.0 ØB 11.0 ØC 11.0 HIGH PHASE (AMPS) 91.7
TOTAL CONNECTED LOAD (kVA) 33.0 TOTAL LOAD (AMPS) 91.6

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.



1 LIGHT POLE DETAIL
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE							
MARK	MANUFACTURER AND CATALOG NUMBER	TYPE	WATTS	TOTAL WATTS	VOLTAGE	MOUNTING	NOTES
FL2	MUSCO LIGHTING TLC-BT-575-LED 5700K-75CRI	LED	575	575	MVOLT	SURFACE	POLE MOUNTED LED SPORTS LIGHTING FIXTURE
FL3	MUSCO LIGHTING TLC-RGB-U	LED	430	430	MVOLT	SURFACE	COLOR CHANGING POLE MOUNTED LED SPORTS LIGHTING FIXTURE
FL4	MUSCO LIGHTING TLC-LED-900-LED 5700K-75CRI	LED	890	890	MVOLT	SURFACE	POLE MOUNTED LED SPORTS LIGHTING FIXTURE
TL	MUSCO LIGHTING TLC-LED-550NR	LED	1140	1140	MVOLT	SURFACE	POLE MOUNTED LED SPORTS LIGHTING FIXTURE

NOTES: FIXTURES WITH HALF FILLED IN CENTER SHALL BE PROVIDED WITH AN EMERGENCY BALLAST, 1100 LUMENS OR THE MAXIMUM AVAILABLE FOR THE FIXTURE.
PROVIDE ALL MOUNTING HARDWARE, SUPPORTS, ETC. AS REQUIRED BY THE MANUFACTURER FOR A COMPLETE INSTALLATION.
COORDINATE FINAL FIXTURE SELECTION WITH OWNER / ARCHITECT PRIOR TO ORDER.



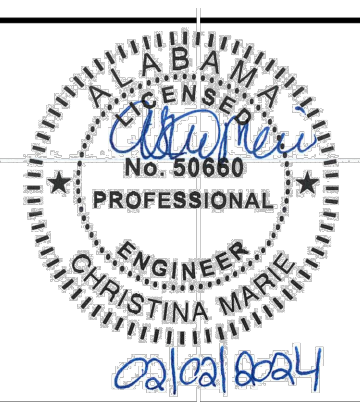
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ELECTRICAL DETAILS

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EXISTING MUSCO LIGHTING CONTROLLER TO BE REMOVED AND REPLACED NEW PER NEW WORK PLANS

EXISTING 400A 240V 3Ø LIGHTING PANEL "2DP" TO BE RE-PURPOSED FOR NEW WORK:
 FOR CIRCUIT BEING COMPLETELY REMOVED: THE ELECTRICAL CONTRACTOR SHALL COMPLETELY REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS AND LABEL BREAKERS AS "SPARE".
 FOR CIRCUITS THAT ARE EXISTING TO REMAIN: THE CONTRACTOR SHALL LABEL THE BREAKER FOR THE LOAD BEING SERVED.

EXISTING FEEDER TO BE DISCONNECTED, REMOVED AND REPLACED NEW PER NEW WORK PLANS

TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"
 TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"
 TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"
 TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"
 TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"
 TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"
 TO EXISTING LIGHT POLE ON FIELD "D" → TO EXISTING LIGHT POLE ON FIELD "C"

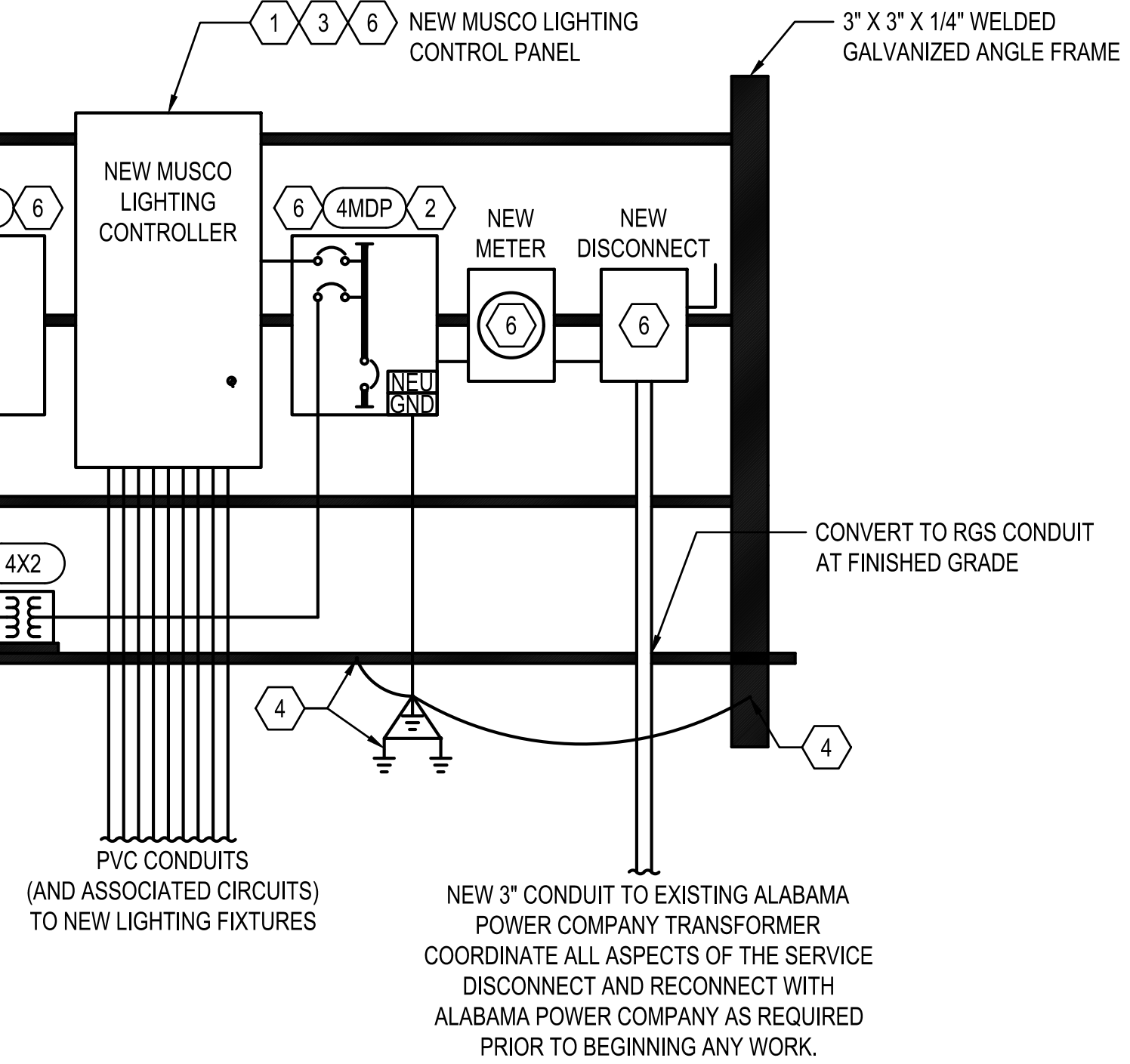
1 EXISTING FIELD "C" & "D" SINGLE LINE RISER DIAGRAM
 NOT TO SCALE

REPURPOSED 400A 240V 3Ø PANEL "2DP" TO BE RESERVED FROM NEW 480 VOLT TO 208Y/120 VOLT 75KVA TRANSFORMER. THE PANEL SHALL BE RELABELLED ACCORDINGLY.

EXISTING CONCESSION BUILDING MAIN SERVICE PANEL

4 #1/0, 1 #6G IN 2" CONDUIT
 8" ROUND CONCRETE BASE 36" DEEP.

4" CONCRETE SLAB WITH RE-ENFORCEMENT. THE PAD IS TO EXTEND 4' OUT IN FRONT OF THE FACE OF THE ELECTRICAL EQUIPMENT. LENGTH IS TO EXTEND 12" BEYOND EACH END OF THE PEDESTAL.



2 NEW WORK FIELD "C" & "D" SINGLE LINE RISER DIAGRAM
 NOT TO SCALE

SHEET NOTES

- THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL A NEW 3/4" X 20' COPPER CLAD GROUND ROD AND CONNECT TO THE NEW SERVICE ENTRANCE PANEL. BOND THE PANEL TO THE GROUND ROD AND ENCLOSURE WITH A #1/0 TINNED COPPER STRANDED CONDUCTOR.
- THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL A NEW 200 AMP NEMA 3R COPPER BUSS BOTTOM FED MAIN BREAKER 14,000 AIC 42 CIRCUIT PANELBOARD. THE ELECTRICAL CONTRACTOR IS TO LABEL THE PANELBOARD IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110.24 - 8,900 AMPS AVAILABLE FAULT CURRENT.
- THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL NEW LIGHTING CONTROLS AND CONNECT TO THE EXISTING CONDUCTORS TO EACH POLE AS REQUIRED. A BUTTON TO ENERGIZE THE LIGHTING FOR A PRESET TIME IS TO BE INSTALLED ON THE PEDESTAL.
- #1/0 GROUND ELECTRODE CONDUCTOR TO THREE 3/4" X 20' COPPER CLAD GROUND RODS SPACE IN A 20' EQUILATERAL TRIANGLE. BOND TO CONCRETE PAD REBAR AND FRAME.
- THE CONTRACTOR SHALL INVESTIGATE THE LOADS BEING SERVED FROM THE EXISTING PANEL TO BECOME FAMILIAR WITH WHICH CIRCUITS ARE TO REMAIN AND WHICH ARE BEING COMPLETELY REMOVED.
- ENSURE THIS PIECE OF EQUIPMENT IS MOUNTED SO THAT THE BOTTOM OF THE EQUIPMENT IS A MINIMUM OF 24" ABOVE THE SLAB (NOT TO EXCEED WHAT IS ALLOWED BY CODE / APCO). ENSURE ALL INCOMING UNDERGROUND CONDUIT IS PROVIDED AND INSTALLED WITH DUCT SEAL TO AVOID MOISTURE INTRUSION.

PANELBOARD INFORMATION SCHEDULE

MARK	ENCLOSURE TYPE	MOUNTING STYLE	VOLTAGE	Ø	WIRE	MAIN BKR	IF MLO, SERVING BKR	SERVICE RATED	kAIC RATING	Ø BUS RATING (A)	N BUS RATING	FEEDER		
												CONDUCTORS	GROUND	CONDUIT
4MDP	NEMA 3R	SURFACE	480Y/277	3	4	200	N/A	YES	14	200	100%	4#3/0	NONE	3"C
2DP*	NEMA 3R	SURFACE	208Y/120	3	4	250	N/A	NO	10	400	100%	4#250	#4	3"C

NOTES:
 ALL PANELBOARDS ARE TO HAVE COPPER BUS.
 ALL PANELBOARDS ARE TO HAVE ARC FLASH WARNING LABEL IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ARTICLE 110.16.
 * THIS IS AN EXISTING PANEL TO BE REFEED FROM NEW TRANSFORMER 4X2. PANEL TO BE RELABELLED ACCORDINGLY.

TRANSFORMER SCHEDULE

MARK	PRIMARY VOLTAGE	SECONDARY VOLTAGE	Ø	WIRE	KVA	*MNT	**TYPE	PRIMARY FEEDER SIZE	SIZE GEC TO 3/4"X10" GND ROD	SIZE GEC TO FOUNDATION REBAR, WATER & BLDG STEEL
4X2	480 DELTA	208Y/120	3	4	75	FLR	STD	3#1,#6G,1 1/2"C	#2	#2

*MNT: FLR=FLOOR MOUNTED, PROVIDE CONCRETE BASE.
 **TYPE: STD=STANDARD PER SPECIFICATIONS.
 SEE TRANSFORMER MOUNTING DETAIL.

PANELBOARD SCHEDULE

CKT #	LOAD DESCRIPTION	BREAKER		PHASE (kVA)			PHASE (kVA)			BREAKER		LOAD DESCRIPTION	CKT #	
		P	TRIP	A	B	C	A	B	C	TRIP	P			
														MARK: PANEL 4MDP
1				1.4			1.4						2	
3	FIELD C LIGHTS	3	20		1.4			1.4			20	3	FIELD D LIGHTS	4
5						1.4				1.4				6
7				2.5			2.5							8
9	FIELD C LIGHTS	3	20		2.5			2.5			20	3	FIELD D LIGHTS	10
11						2.5				2.5				12
13				2.3			2.3							14
15	FIELD C LIGHTS	3	20		2.3			2.3			20	3	FIELD D LIGHTS	16
17						2.3				2.3				18
19				1.4			1.4							20
21	FIELD C LIGHTS	3	20		1.4			1.4			20	3	FIELD D LIGHTS	22
23						1.4				1.4				24
25				2.5			2.5							26
27	FIELD C LIGHTS	3	20		2.5			2.5			20	3	FIELD D LIGHTS	28
29						2.5				2.5				30
31				2.3			2.3							32
33	FIELD C LIGHTS	3	20		2.3			2.3			20	3	FIELD D LIGHTS	34
35						2.3				2.3				36
37	LIGHTING CONTROL PANEL	1	20	0.1			25.0							38
39	SPARE	1	20							25.0	110	3	TRANSFORMER 4X2 TO SERVE EXISTING PANEL 2DP	40
41	SPARE	1	20											42

TOTAL (kVA) ØA 49.9 ØB 49.8 ØC 49.8 HIGH PHASE (AMPS) 180.1
 TOTAL CONNECTED LOAD (kVA) 149.5 TOTAL LOAD (AMPS) 179.8
 CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.



No.	REVISIONS	DATE	BY
	2024-04-08 ADDENDUM #1	2024-04-08	CM

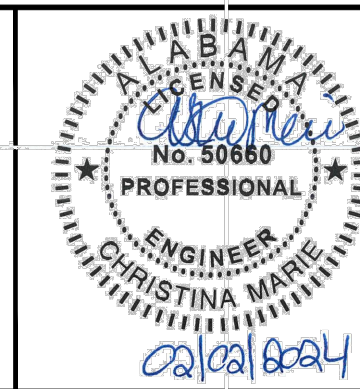


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KHA PROJECT 142920003
DATE FEBRUARY 05, 2024
SCALE AS SHOWN
DESIGNED BY: CM
DRAWN BY: CM
CHECKED BY: AWM

MEDAL OF HONOR PARK SITE AND LIGHTING IMPROVEMENTS
 PREPARED FOR
CITY OF MOBILE

CITY OF MOBILE



ALABAMA

ELECTRICAL SCHEDULES

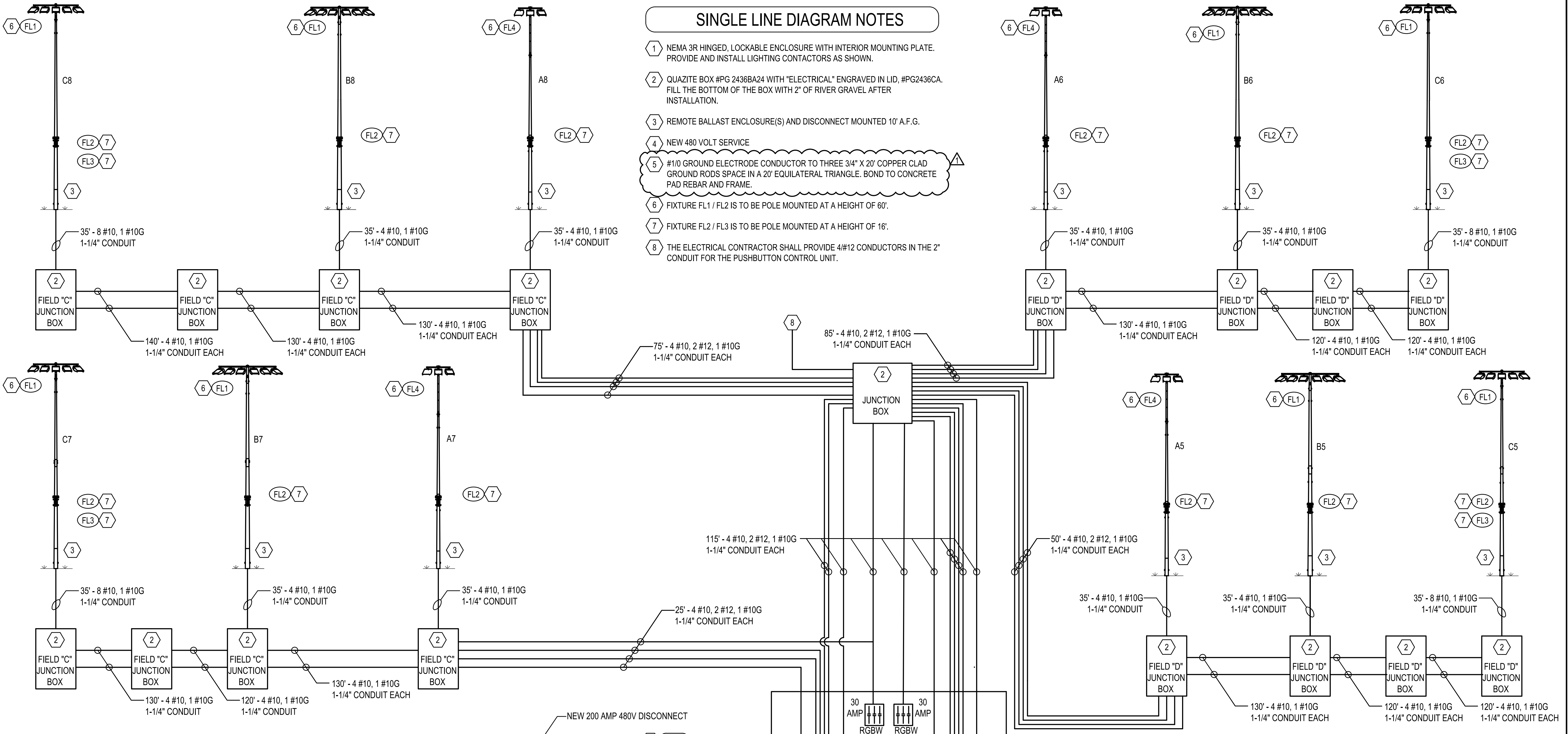
SHEET NUMBER

E4.1

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SINGLE LINE DIAGRAM NOTES

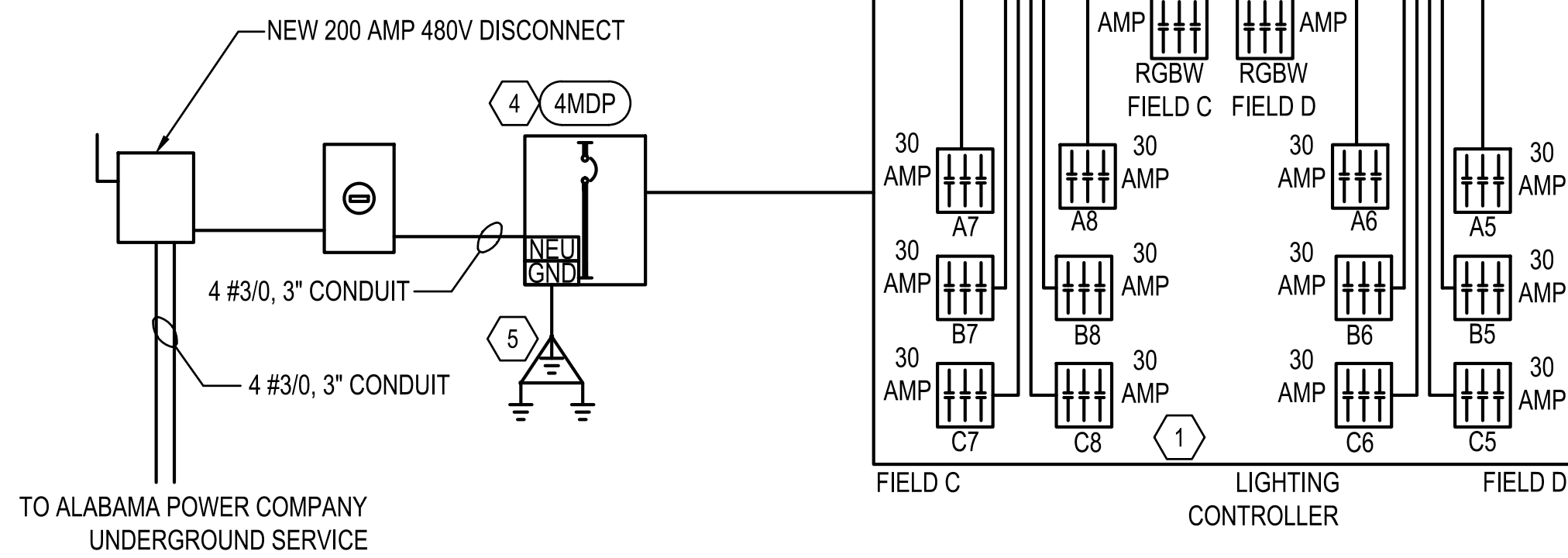
- 1 NEMA 3R HINGED, LOCKABLE ENCLOSURE WITH INTERIOR MOUNTING PLATE. PROVIDE AND INSTALL LIGHTING CONTACTORS AS SHOWN.
- 2 QUAZITE BOX #PG 2436BA24 WITH "ELECTRICAL" ENGRAVED IN LID, #PG2436CA. FILL THE BOTTOM OF THE BOX WITH 2" OF RIVER GRAVEL AFTER INSTALLATION.
- 3 REMOTE BALLAST ENCLOSURE(S) AND DISCONNECT MOUNTED 10' A.F.G.
- 4 NEW 480 VOLT SERVICE
- 5 #1/0 GROUND ELECTRODE CONDUCTOR TO THREE 3/4" X 20' COPPER CLAD GROUND RODS SPACE IN A 20' EQUILATERAL TRIANGLE. BOND TO CONCRETE PAD REBAR AND FRAME.
- 6 FIXTURE FL1 / FL2 IS TO BE POLE MOUNTED AT A HEIGHT OF 60'.
- 7 FIXTURE FL2 / FL3 IS TO BE POLE MOUNTED AT A HEIGHT OF 16'.
- 8 THE ELECTRICAL CONTRACTOR SHALL PROVIDE 4#12 CONDUCTORS IN THE 2" CONDUIT FOR THE PUSHBUTTON CONTROL UNIT.



1 FIELDS "C" & "D" CIRCUITING DIAGRAM

NOT TO SCALE

NOTE:
 ALL PHASE CONDUCTORS ARE TO BE CONTINUOUS, NO SPLICES, FROM CONTACTOR ENCLOSURE TO THE ROTARY DISCONNECT ON THE POLES.
 ALL CONDUITS ARE TO BE A MINIMUM OF 24" BELOW FINISHED GRADE.
 THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ASPECTS OF THE INSTALLATION OF THE NEW MUSCO SYSTEM WITH MUSCO PRIOR TO BEGINNING ANY WORK. THE NEW SYSTEM IS TO BE INSTALLED PER THE DIRECTION AND RECOMMENDATION OF MUSCO.



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 MEP Engineering
 Christina Marie 50660
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 DELL CONSULTING PROJECT: 22-118

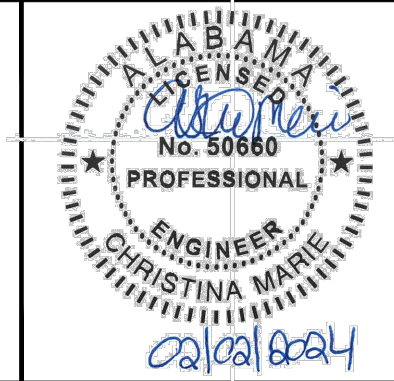
No.	REVISIONS	DATE	BY

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**MEDAL OF HONOR PARK SITE
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CITY OF MOBILE
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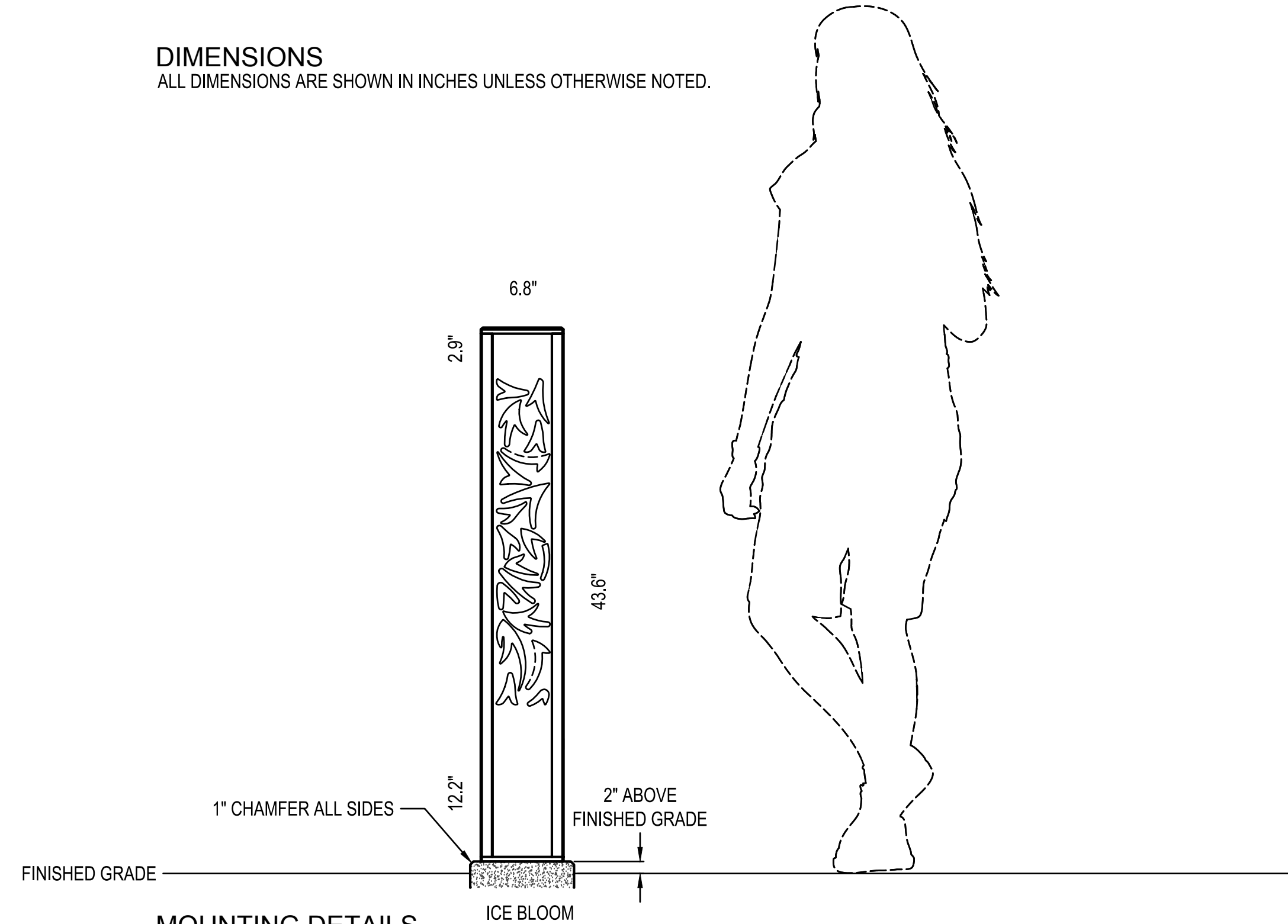


ELECTRICAL RISERS	E4.2
SHEET NUMBER	E4.2

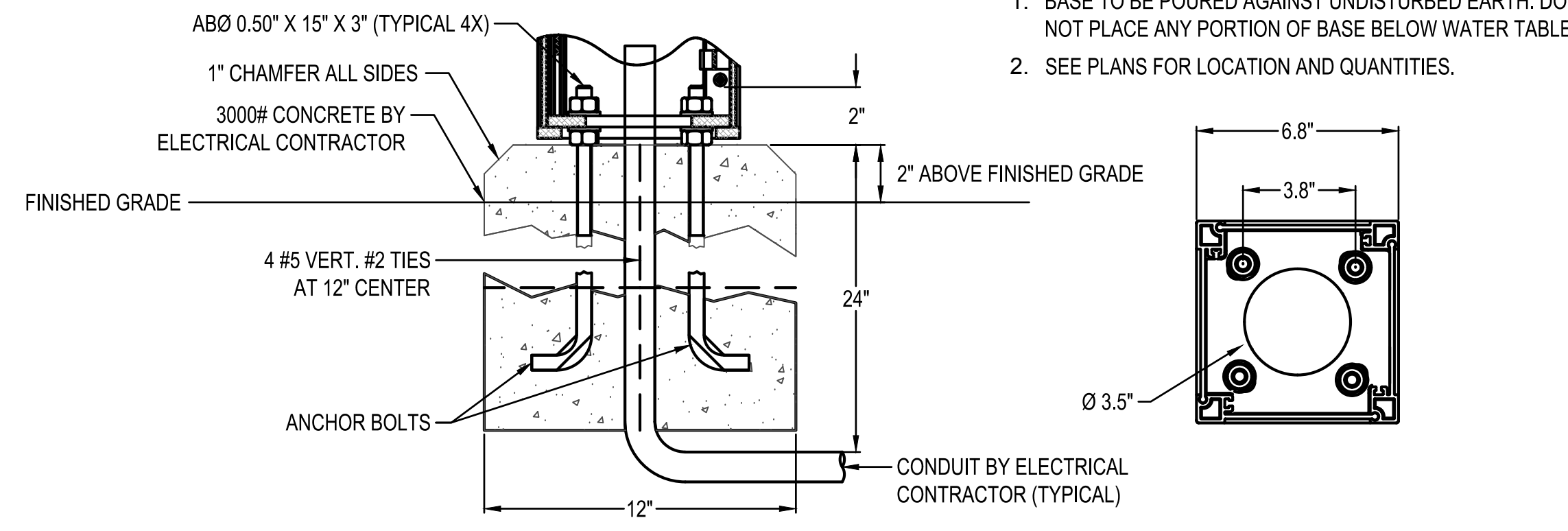
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MOSAIC BOLLARD - Ice Bloom
ILLUMINATING BOLLARD

DIMENSIONS
ALL DIMENSIONS ARE SHOWN IN INCHES UNLESS OTHERWISE NOTED.

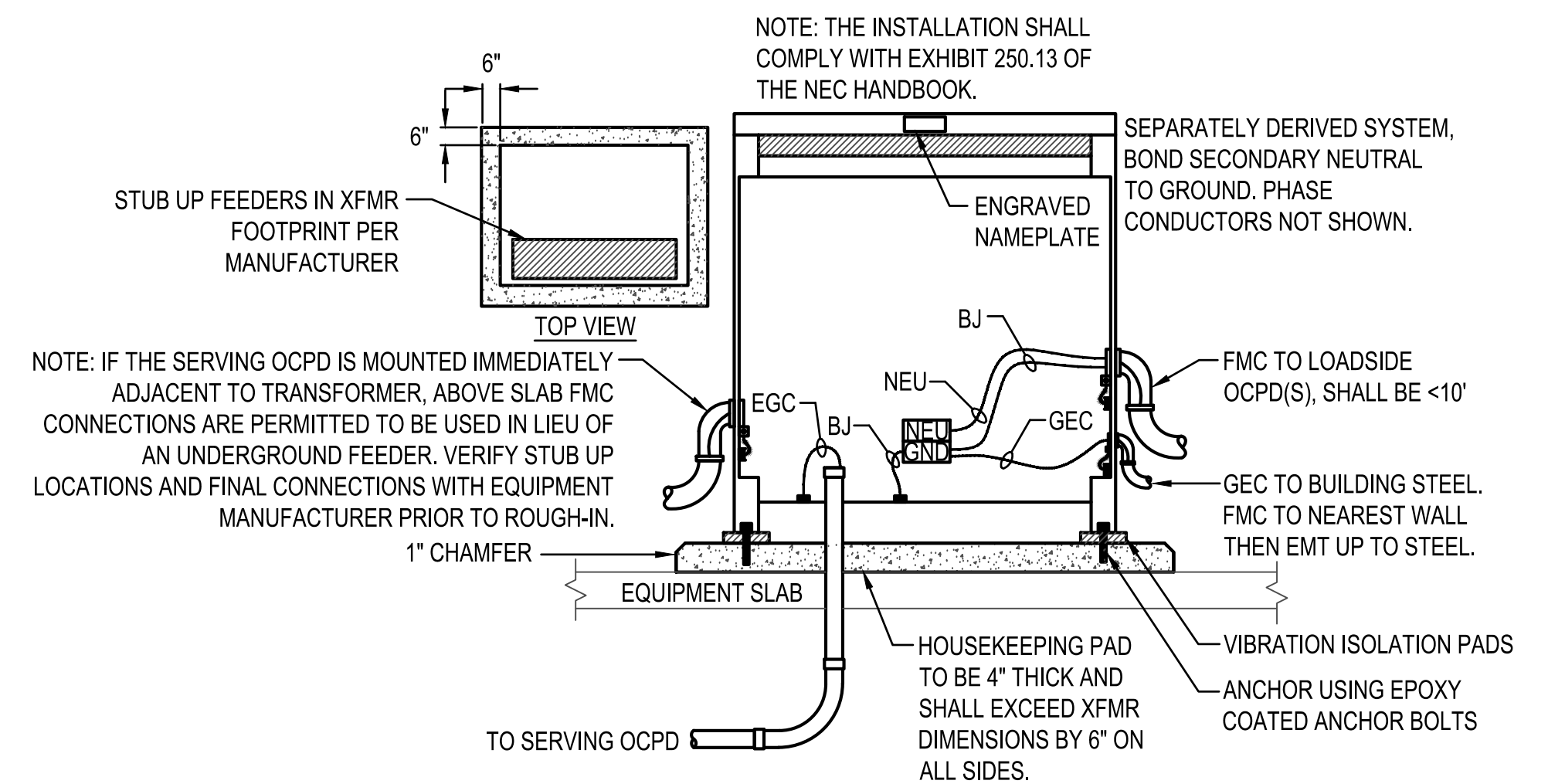


MOUNTING DETAILS
ALL DIMENSIONS ARE SHOWN IN INCHES UNLESS OTHERWISE NOTED.

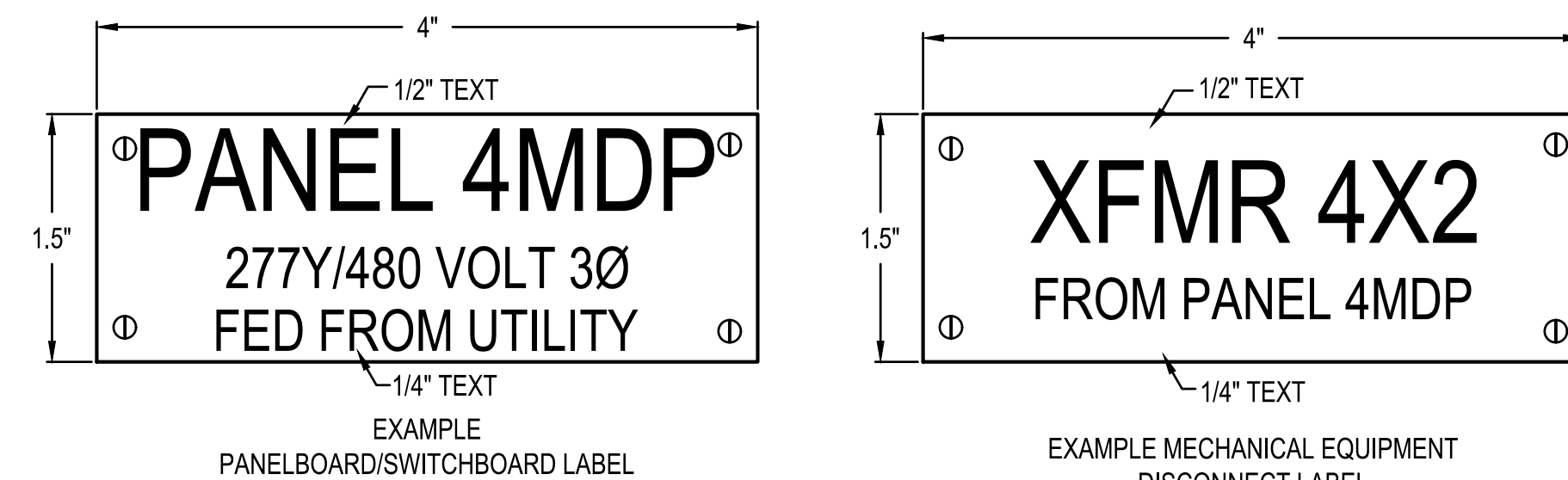


- NOTES:**
1. BASE TO BE POURED AGAINST UNDISTURBED EARTH. DO NOT PLACE ANY PORTION OF BASE BELOW WATER TABLE.
 2. SEE PLANS FOR LOCATION AND QUANTITIES.

1 CONCRETE BASE FOR BOLLARD DETAIL
NOT TO SCALE



3 DRY TYPE FLOOR MOUNTED TRANSFORMER DETAIL
NOT TO SCALE



ENGRAVED PLASTIC TAG WITH BLACK LETTERS ON WHITE BACKGROUND (RED BACKGROUND FOR EMERGENCY EQUIPMENT). TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH 4 CHROME (STAINLESS STEEL FOR WET OR DAMP LOCATIONS) SCREWS. ADHESIVE BACKING, TAPE, ETC IS NOT ALLOWED. DIMENSIONS ARE MINIMUM, TAG SHALL BE LARGER AS REQUIRED TO FIT APPROPRIATE TEXT.

2 TYPICAL EQUIPMENT LABELING DETAIL
NOT TO SCALE

2024-04-08	ADDENDUM #1	2024-04-08	CM
No.	REVISIONS	DATE	BY

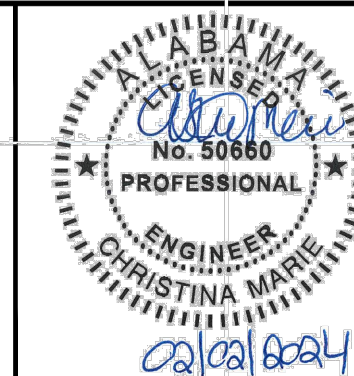


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ALABAMA

ADDITIVE ALTERNATE #1
AMPHITHEATER SCHEDULES & DETAILS

SHEET NUMBER

E4.3



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