



**RICHLAND COUNTY  
RECREATION  
COMMISSION  
FRIARSGATE PARK  
LIGHTING & MAIN  
ELECTRICAL  
SERVICE PGRADE**

1712 CHADFORD ROAD  
IRMO, SC 29063

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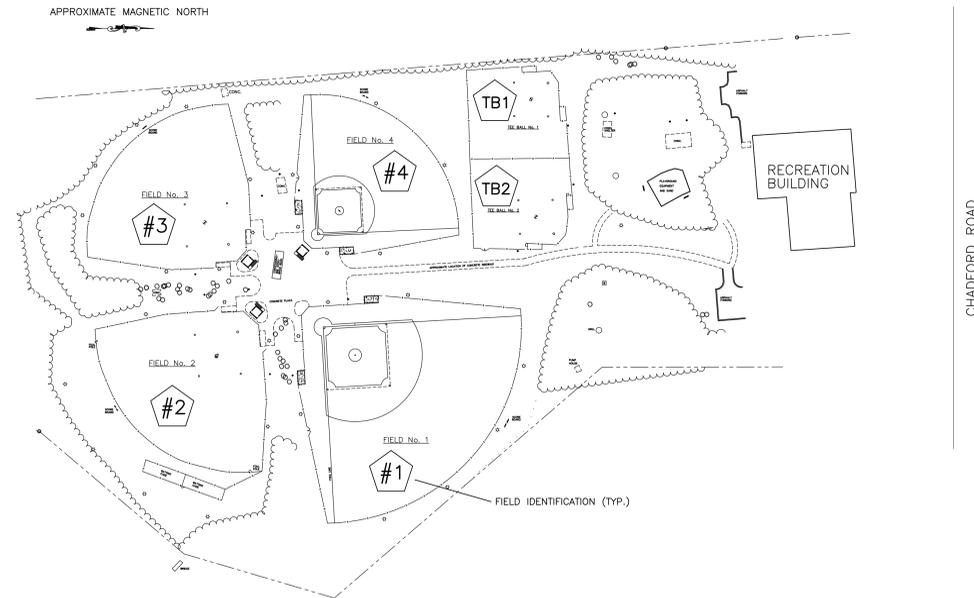
DATE: 16 FEBRUARY 2026  
BEA PROJECT #: RR22601  
DESIGNED: CES  
CHECKED: JLA  
DRAWN: CES  
REVISION:

OWNER REVIEW SET

**ELECTRICAL  
GENERAL NOTES &  
LEGEND**

ELECTRICAL SYMBOL LEGEND	
B2 P1-5.7	SPORTS LIGHTING FIXTURES, POLE MOUNTED (SEE LIGHTING FIXTURE SCHEDULE ON THIS DRAWING AND DETAILS/NOTES ON EACH PLAN DRAWING FOR SPECIFICATIONS/CONFIGURATIONS) (ALPHA/NUMERIC DENOTE POLE LOCATION IDENTIFICATION & CIRCUIT; SEE SPECIFIC CIRCUITING NOTES ON EACH DRAWING)
EM P234-5.7	EMERGENCY EGRESS LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK BACKUP
⊕	JUNCTION BOX, NEMA 3R, SURFACE MOUNTED ON WALL AT 18" AFF UNLESS NOTED OTHERWISE (FUNCTION AS INDICATED ON PLAN)
■	ELECTRICAL PANELBOARD, NEMA 3R, SURFACE MOUNTED
⊞	LIGHTING CONTROL PANEL, NEMA 3R, SURFACE MOUNTED
□	ELECTRICAL SAFETY DISCONNECT SWITCH, WALL MOUNTED. SEE POWER SINGLE LINE DIAGRAMS ON DRAWING E9.

GENERAL ELECTRICAL NOTES	
1	BRANCH CIRCUIT WIRING SHALL BE MINIMUM NO. 6 AWG UNLESS NOTED OTHERWISE. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO LIGHTING FIXTURES IS NOT REQUIRED TO BE LARGER THAN NO. 12 AWG IF NEEDED.
2	PRIOR TO NEW POLE INSTALLATION, THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH A/E.
3	PROVIDE LIQUID TIGHT FLEXIBLE CONDUIT WHERE STRAIGHT CONDUIT RUNS ARE NOT POSSIBLE. ALL CONDUIT WORK SHALL BE DONE IN ORDERLY FASHION PER STANDARD ELECTRICAL PRACTICES.
4	COORDINATE PROJECT PHASING WITH A/E AND OWNER KEEPING IN MIND THAT THE FACILITY SHALL REMAIN OPERATIONAL AS MUCH AS POSSIBLE.
5	THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING:  A COMMON NEUTRAL SHALL NOT BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CIRCUITS UNLESS DIRECTION IS PROVIDED BY THE ENGINEER IN WRITING FOR A SPECIFIC APPLICATION.  A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.
6	THE USE OF MC CABLE IS NOT ALLOWED.
7	WHEREVER ON THE ELECTRICAL DRAWINGS THE WORD "PROVIDE" IS USED, IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL".
8	PROVIDE A PERMANENT ENGRAVED LAMINATED PLASTIC NAMEPLATE (BLACK LETTERING ON WHITE) ON ALL ELECTRICAL EQUIPMENT DETAILING IDENTIFICATION AND LIGHTING AND/OR EQUIPMENT IT SERVES. THIS INCLUDES POWER PANELS, LIGHTING CONTROL PANELS, PUSHBUTTON STATIONS, AND SPD'S.



**KEY PLAN**  
APPROXIMATE SCALE: 1" = 100'-0"

LIGHTING FIXTURE SCHEDULE										
SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	COLOR TEMP	LUMENS	WATTS	VOLTS	MOUNTING REMARKS	
⊕	A1	SPORTS LIGHTING FIXTURES IN CONFIGURATION AS REQUIRED TO MEET PERFORMANCE SPEC (ALPHA-NUMERIC REFLECTS POLE POSITION; SEE PLANS) PROVIDE 10-YEAR WARRANTY. DRIVERS MAY BE INTEGRAL WITH FIXTURES OR MOUNTED REMOTE IN ENCLOSURE LOWER ON POLE. SEE NOTE L4 BELOW.	GEO SPORT LIGHTING	CLIR TSL SERIES	5000K-5700K	80,000	650	480	POLE (SEE DETAILS)	
	B1		HYLITE	AEON ECO 500WD SERIES						
	C1			MUSCO LIGHTING	SPORTSCLUSTER (RETROFIT SYSTEM)					
	C2									
C3										
C4										
EM	EM	FLOODLIGHT FIXTURE WITH PHOTOCCELL AND HI-LO MOTION SENSOR CONTROLS. PROVIDE REMOTE INVERTER IN ELECTRICAL ROOM FOR EMERG. BACKUP	CURRENT BEACON	RFL4-176L-95-SK7-W-277V-K-LGS-PC-SP-WRSC	5000K	12,000	94	277	POLE 20'0 AFF	

LIGHTING FIXTURE SCHEDULE NOTES					
L1.	LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE COMPLETE OPERATIONAL FIXTURE WITH THE PROPER TRIM, VOLTAGE, AND OPTIONS NECESSARY FOR INSTALLATION. PROVIDE ONE OF THE MANUFACTURERS LISTED IN SCHEDULE OR PRIOR APPROVED EQUAL.				
L2.	LUMENS LISTED IN SCHEDULE REPRESENT MINIMUM DELIVERED LUMENS OF FIXTURES.				
L3.	PERFORMANCE SPECIFICATION LIGHTING REQUIREMENTS SHALL BE MET AS FOLLOWS:  <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">FIELDS #1, #2, #3, #4</td> <td>50 FOOT-CANDLES AVERAGE IN INFIELD WITH 2:1 MAX-TO-MIN RATIO 30 FOOT-CANDLES AVERAGE IN OUTFIELD WITH 2.5:1 MAX-TO-MIN RATIO</td> </tr> <tr> <td>TEE BALL FIELDS</td> <td>30 FOOT-CANDLES AVERAGE ENTIRE FIELD WITH 2.5:1 MAX-TO-MIN RATIO</td> </tr> </table> POINT-BY-POINT LIGHTING CALCULATIONS SHALL BE SUBMITTED WITH BID DOCUMENTS FOR REVIEW BY ENGINEER BEFORE AWARDING PROJECT.	FIELDS #1, #2, #3, #4	50 FOOT-CANDLES AVERAGE IN INFIELD WITH 2:1 MAX-TO-MIN RATIO 30 FOOT-CANDLES AVERAGE IN OUTFIELD WITH 2.5:1 MAX-TO-MIN RATIO	TEE BALL FIELDS	30 FOOT-CANDLES AVERAGE ENTIRE FIELD WITH 2.5:1 MAX-TO-MIN RATIO
FIELDS #1, #2, #3, #4	50 FOOT-CANDLES AVERAGE IN INFIELD WITH 2:1 MAX-TO-MIN RATIO 30 FOOT-CANDLES AVERAGE IN OUTFIELD WITH 2.5:1 MAX-TO-MIN RATIO				
TEE BALL FIELDS	30 FOOT-CANDLES AVERAGE ENTIRE FIELD WITH 2.5:1 MAX-TO-MIN RATIO				
L4.	FIELDS #1, #2, #3, #4 SHALL HAVE AN UPLIGHT FIXTURE ON EACH POLE AS PART OF THEIR CONFIGURATIONS.				

ELECTRICAL DRAWING INDEX	
E1	ELECTRICAL GENERAL NOTES & LEGEND
E2	OVERALL ELECTRICAL SITE PLAN
E3	ELECTRICAL DISTRIBUTION PLANS
E4	FIELD #1 ELECTRICAL SITE PLAN
E5	FIELD #2 ELECTRICAL SITE PLAN
E6	FIELD #3 ELECTRICAL SITE PLAN
E7	FIELD #4 ELECTRICAL SITE PLAN
E8	TEE BALL FIELDS ELECTRICAL SITE PLAN
E9	POWER SINGLE LINE DIAGRAMS
E10	PANELBOARD SCHEDULES AND DETAILS





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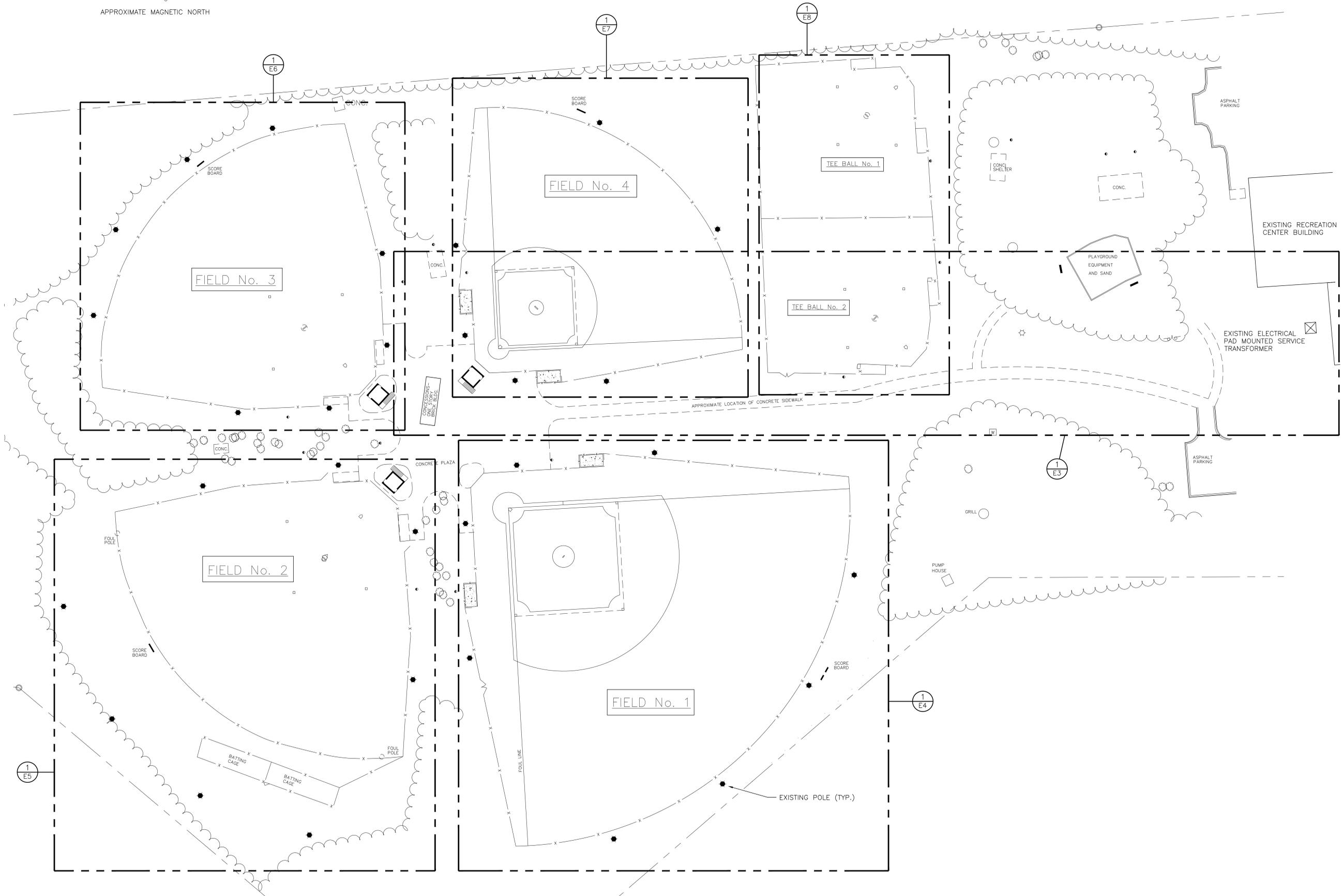
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**811** CONTRACTOR SHALL CONTACT 811 (1-888-721-7877) FOR LOCATIONS OF ALL UTILITIES AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.  
**Know what's below.  
Call before you dig.**

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**OVERALL  
ELECTRICAL  
SITE PLAN**



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

REFLECTS EXISTING POLE LAYOUT





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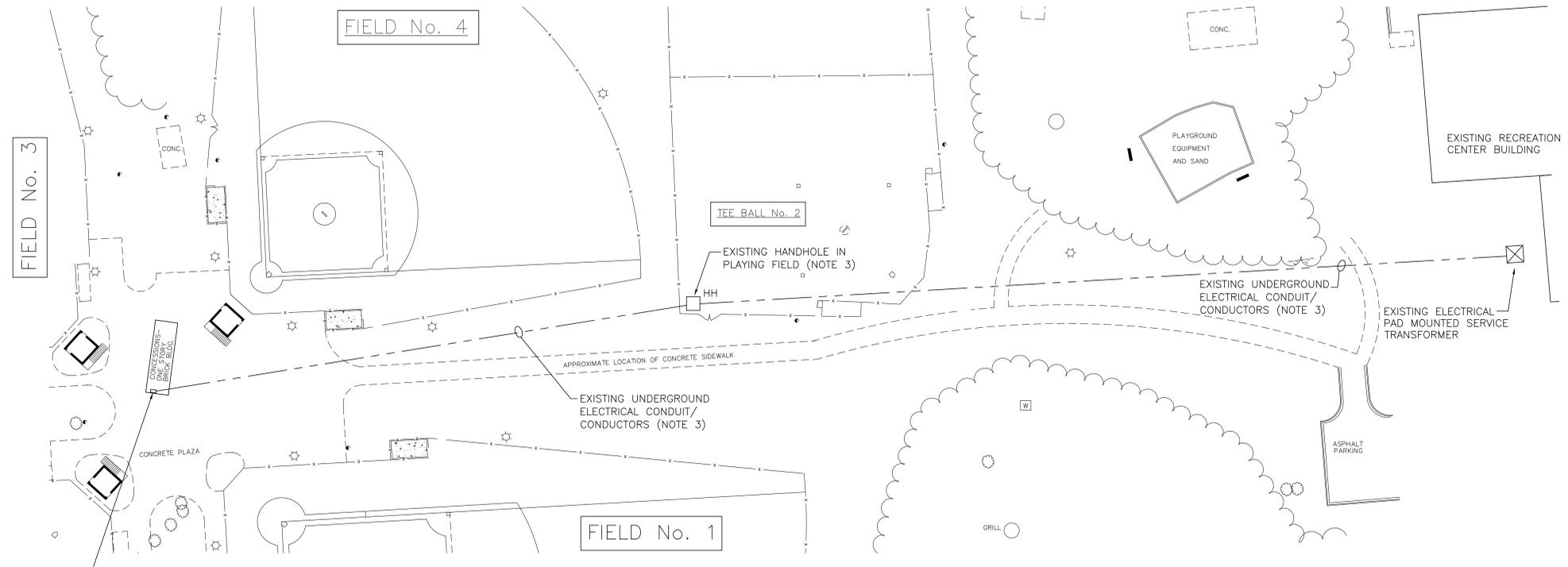
Contractor shall contact 811 (1-888-721-7871) for locations of all utilities at least 72 hours prior to beginning construction.



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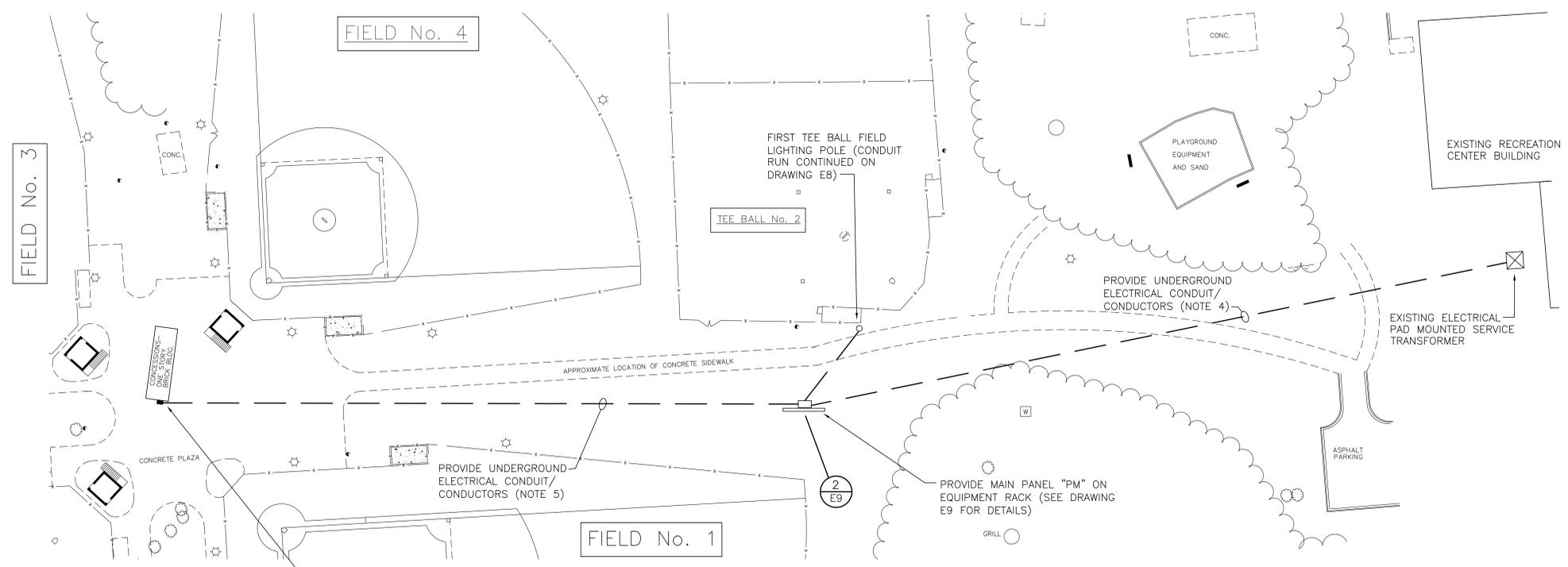
**OWNER REVIEW SET**

**ELECTRICAL DISTRIBUTION SITE PLANS**

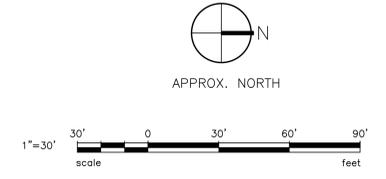


**1**  
**E3** **ELECTRICAL DISTRIBUTION SITE PLAN – EXISTING**  
SCALE: 1" = 30'-0"

- ELECTRICAL DISTRIBUTION NOTES**
- STAGE SCOPE OF WORK ON THIS DRAWING TO MINIMIZE POWER OUTAGE TO FACILITY. COORDINATE WITH OWNER GIVING A MINIMUM OF 10 BUSINESS DAY NOTICE OF PLANNED OUTAGE.
  - COORDINATE ALL WORK AT EXISTING SERVICE TRANSFORMER WITH MID-CAROLINA ELECTRIC COOPERATIVE.  
EXISTING CONDUIT ROUTINGS ON THIS DRAWING ARE SHOWN DIAGRAMMATICALLY BASED ON AS-BUILT DRAWINGS. CONTRACTOR SHALL CONTACT 811 (UNDERGROUND UTILITY LOCATOR) AND MARK EXISTING CONDUITS FOR HIS USE. EXISTING SITE PLAN BACKGROUND IS APPROXIMATE; FIELD VERIFY ACTUAL EXISTING SITE CONDITIONS.
  - REMOVE EXISTING SECONDARY SERVICE CONDUCTORS AND EXISTING HAND HOLE (IN TEE BALL FIELD). EXISTING CONDUITS CAN BE ABANDONED IN PLACE. PROVIDE COMPACTED BACKFILL DIRT AND GRASS WHERE EXISTING HAND HOLE WAS REMOVED.
  - PROVIDE NEW SECONDARY SERVICE CONDUCTORS AND CONDUITS APPROXIMATELY WHERE SHOWN ON PLAN. COORDINATE WITH EXISTING CONDITIONS AND UTILITIES. BORING IS PREFERRED INSTALLATION; COORDINATE THIS SCOPE OF WORK WITH A/E BEFORE BEGINNING. ALL TRENCHING AND/OR CUTTING OF EXISTING CONCRETE PAVING SHALL BE RESTORED TO PRIOR EXISTING CONDITION.
  - PROVIDE FEEDER FROM MAIN PANEL "PM" TO PANEL "P234" IN EXISTING CONCESSION BUILDING EXTERIOR WALL. COORDINATE WITH EXISTING CONDITIONS AND UTILITIES. BORING IS PREFERRED INSTALLATION METHOD; COORDINATE THIS SCOPE OF WORK WITH A/E BEFORE BEGINNING. IF TRENCHING IS DONE, ROUTING SHALL BE DONE ALONG EDGE OF EXISTING SIDEWALK AS MUCH AS POSSIBLE. ALL TRENCHING AND/OR CUTTING OF EXISTING CONCRETE PAVING SHALL BE RESTORED TO PRIOR EXISTING CONDITION.



**2**  
**E3** **ELECTRICAL DISTRIBUTION SITE PLAN – RENOVATION**  
SCALE: 1" = 30'-0"

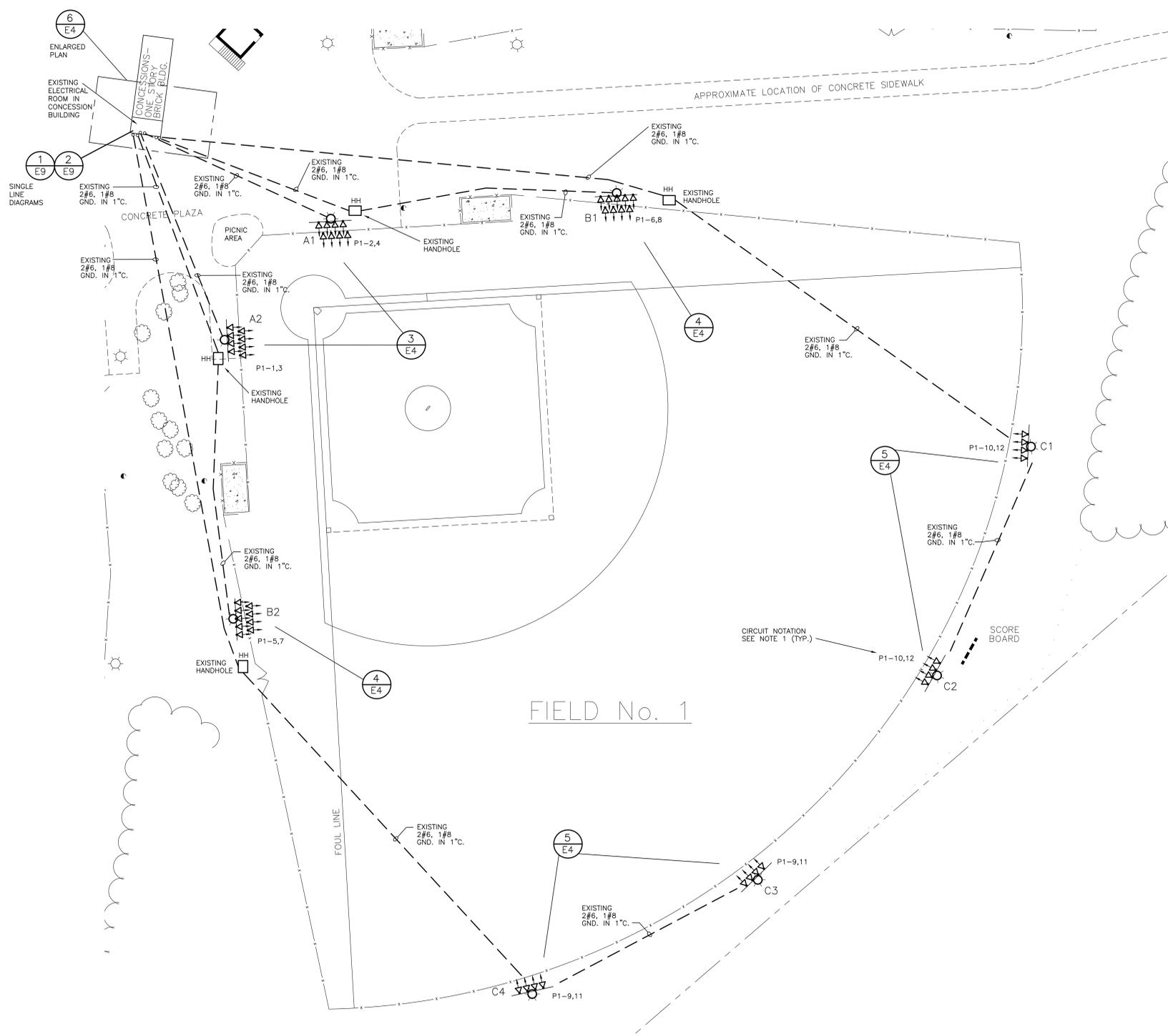


EXISTING MAIN DISCONNECT SWITCH IN EXISTING ELECTRICAL ROOM IN CONCESSION BUILDING

FIRST TEE BALL FIELD LIGHTING POLE (CONDUIT RUN CONTINUED ON DRAWING E8)

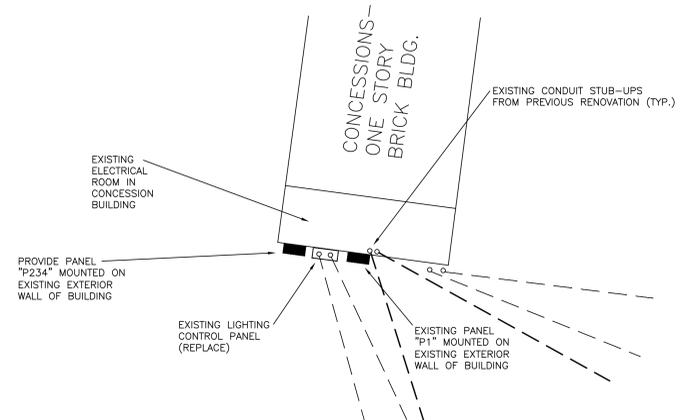
PROVIDE MAIN PANEL "PM" ON EQUIPMENT RACK (SEE DRAWING E9 FOR DETAILS)

PROVIDE PANEL "P234" ON EXTERIOR WALL OF CONCESSION BUILDING



1 FIELD #1 ELECTRICAL SITE PLAN  
SCALE: 1" = 20'-0"

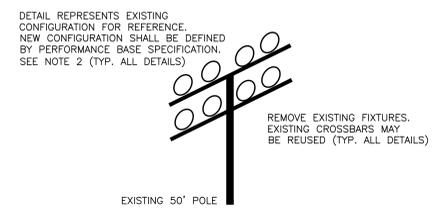
- ### FIELD LIGHTING NOTES
- REMOVE EXISTING LIGHTING FIXTURES, BALLASTS, AND FUSING FROM THIS FIELD. REUSE EXISTING #6 CONDUCTORS/CONDUITS WHERE INDICATED ON PLAN. EXISTING CIRCUIT CALLOUTS REFERENCE PANEL "P1" (TYP.)
  - USE EXISTING POLES AND PROVIDE NEW LIGHTING FIXTURES AS SPECIFIED IN LIGHTING FIXTURE SCHEDULE ON DRAWING E1. PROVIDE ASSOCIATED DRIVERS, FUSES, FUSE HOLDERS, AND #6 CONDUCTORS UP POLE. POLE DESCRIPTIONS AS FOLLOWS:  
POLES A1, A2, B1, B2 - EXISTING 50' CONCRETE POLE  
POLES C1, C2, C3, C4 - EXISTING 70' CONCRETE POLE  
PROVIDE ADDITIONAL MOUNTING ARMS AND HARDWARE AS REQUIRED.
  - EXISTING CONDUIT ROUTINGS ON THIS DRAWING ARE SHOWN DIAGRAMMATICALLY BASED ON AS-BUILT DRAWINGS. CONTRACTOR SHALL CONTACT 811 (UNDERGROUND UTILITY LOCATOR) AND MARK EXISTING CONDUITS FOR HIS USE.
  - AS PART OF FIXTURE SUBMITTAL, PROVIDE AIMING PLAN FOR ENGINEER'S REVIEW. CONTRACTOR SHALL EMPLOY THE SERVICES OF A CERTIFIED SPORTS LIGHTING TECHNICIAN TO PERFORM AIMING. FINAL AIMING SHALL BE OBSERVED BY ENGINEER - PROVIDE 7-DAY NOTICE OF SCHEDULED AIMING.



6 ENLARGED ELECTRICAL PLAN  
NOT TO SCALE

BID ALTERNATE NO. 1

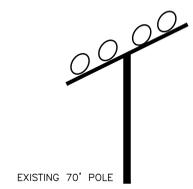
PROVIDE NEW BRANCH CIRCUITS FOR FIELD #1 USING EXISTING CONDUITS. PROVIDE SAME CONDUCTOR SIZES AS SHOWN AS EXISTING CONDUCTORS ON PLAN.  
(BASE BID: REUSE EXISTING CONDUCTORS/CONDUITS.)



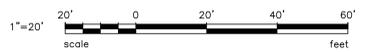
3 POLES A1 & A2  
FIXTURE CONFIGURATION  
NOT TO SCALE



4 POLES B1 & B2  
FIXTURE CONFIGURATION  
NOT TO SCALE



5 POLES C1, C2, C3, C4  
FIXTURE CONFIGURATION  
NOT TO SCALE



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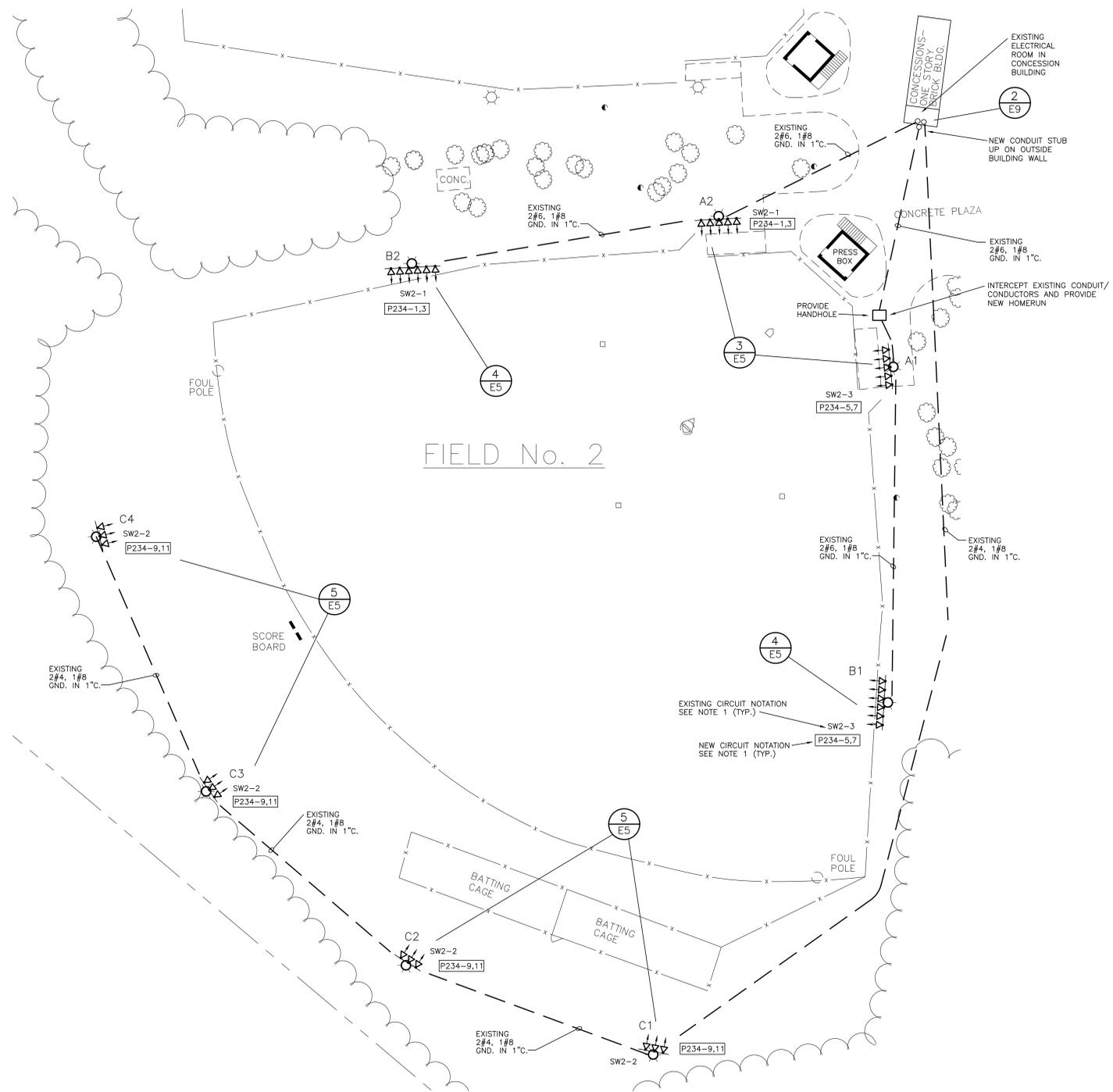
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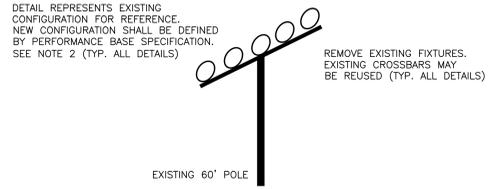
FIELD #1  
ELECTRICAL  
SITE PLAN



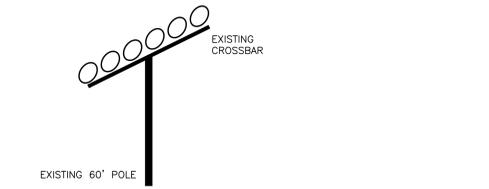
**FIELD LIGHTING NOTES**

- REMOVE EXISTING LIGHTING FIXTURES, BALLASTS, AND FUSING FROM THIS FIELD. REUSE EXISTING #6 CONDUCTORS/CONDUITS WHERE INDICATED ON PLAN. EXISTING CIRCUIT CALLOUTS ARE DIRECTED TO EXISTING DISCONNECT SWITCHES (3 FOR THIS FIELD). REMOVE DISCONNECT SWITCHES AND CONNECT BRANCH CIRCUITS TO NEW PANEL "P234". EXTEND CONDUCTORS AS REQUIRED. CIRCUIT NUMBERS IN "BOXES" ARE NEW CIRCUIT DESIGNATIONS.
- USE EXISTING POLES AND PROVIDE NEW LIGHTING FIXTURES AS SPECIFIED IN LIGHTING FIXTURE SCHEDULE ON DRAWING E1. PROVIDE ASSOCIATED DRIVERS, FUSES, FUSE HOLDERS, AND #6 CONDUCTORS UP POLE. POLE DESCRIPTIONS AS FOLLOWS:  
 POLES A1, A2, B1, B2 - EXISTING 60' CONCRETE POLE  
 POLES C1, C2, C3, C4 - EXISTING 70' CONCRETE POLE  
 PROVIDE ADDITIONAL MOUNTING ARMS AND HARDWARE AS REQUIRED.
- EXISTING CONDUIT ROUTINGS ON THIS DRAWING ARE SHOWN DIAGRAMMATICALLY BASED ON AS-BUILT DRAWINGS. CONTRACTOR SHALL CONTACT B11 (UNDERGROUND UTILITY LOCATOR) AND MARK EXISTING CONDUITS FOR HIS USE.
- AS PART OF FIXTURE SUBMITTAL, PROVIDE AIMING PLAN FOR ENGINEER'S REVIEW. CONTRACTOR SHALL EMPLOY THE SERVICES OF A CERTIFIED SPORTS LIGHTING TECHNICIAN TO PERFORM AIMING. FINAL AIMING SHALL BE OBSERVED BY ENGINEER - PROVIDE 7-DAY NOTICE OF SCHEDULED AIMING.

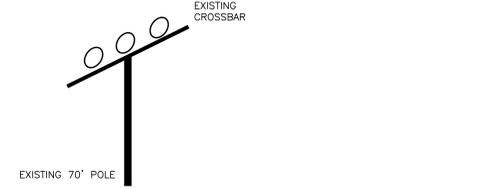
**1** FIELD #2 ELECTRICAL SITE PLAN  
 SCALE: 1" = 20'-0"



**3** POLES A1 & A2  
 FIXTURE CONFIGURATION  
 NOT TO SCALE



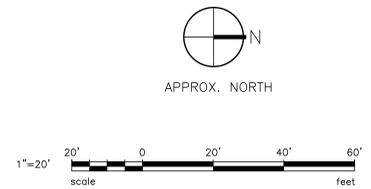
**4** POLES B1 & B2  
 FIXTURE CONFIGURATION  
 NOT TO SCALE



**5** POLES C1, C2, C3, C4  
 FIXTURE CONFIGURATION  
 NOT TO SCALE

**BID ALTERNATE NO. 2**

PROVIDE NEW BRANCH CIRCUITS FOR FIELD #2 USING EXISTING CONDUITS. PROVIDE SAME CONDUCTOR SIZES AS SHOWN AS EXISTING CONDUCTORS ON PLAN.  
 (BASE BID: REUSE EXISTING CONDUCTORS/CONDUITS.)



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**FIELD #2 ELECTRICAL SITE PLAN**



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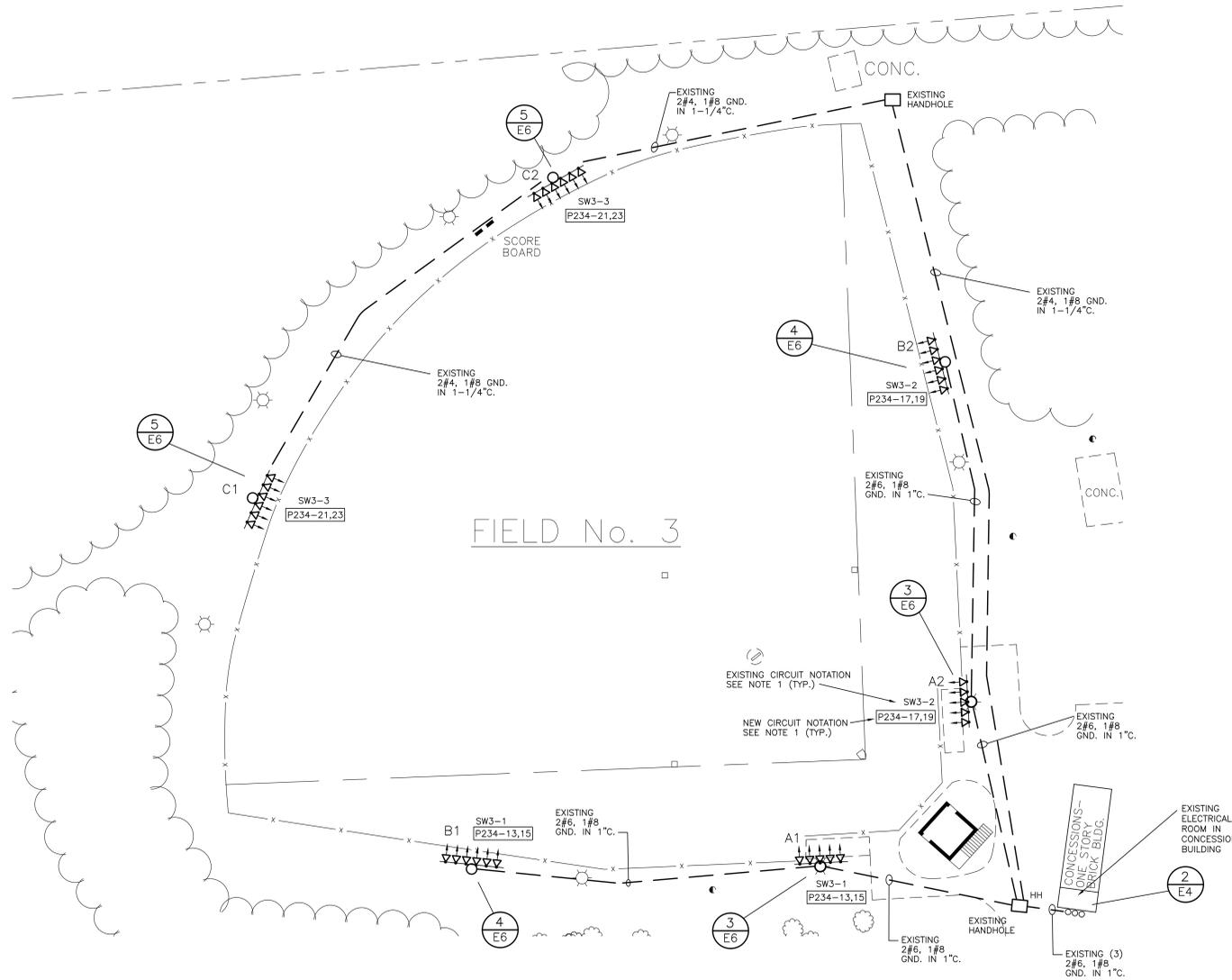
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**FIELD #3  
ELECTRICAL  
SITE PLAN**

**FIELD LIGHTING NOTES**

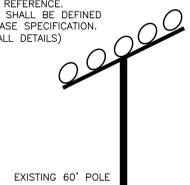
- REMOVE EXISTING LIGHTING FIXTURES, BALLASTS, AND FUSING FROM THIS FIELD. REUSE EXISTING #6 CONDUCTORS/CONDUITS WHERE INDICATED ON PLAN. EXISTING CIRCUIT CALLOUTS ARE DIRECTED TO EXISTING DISCONNECT SWITCHES (3 FOR THIS FIELD). REMOVE DISCONNECT SWITCHES AND CONNECT BRANCH CIRCUITS TO NEW PANEL "P234". EXTEND CONDUCTORS AS REQUIRED. CIRCUIT NUMBERS IN "BOXES" ARE NEW CIRCUIT DESIGNATIONS.
- USE EXISTING POLES AND PROVIDE NEW LIGHTING FIXTURES AS SPECIFIED IN LIGHTING FIXTURE SCHEDULE ON DRAWING E1. PROVIDE ASSOCIATED DRIVERS, FUSES, FUSE HOLDERS, AND #6 CONDUCTORS UP POLE. POLE DESCRIPTIONS AS FOLLOWS:  
  
POLES A1, A2, B1, B2, C1, C2 - EXISTING 60' CONCRETE POLE  
PROVIDE ADDITIONAL MOUNTING ARMS AND HARDWARE AS REQUIRED.
- EXISTING CONDUIT ROUTINGS ON THIS DRAWING ARE SHOWN DIAGRAMMATICALLY BASED ON AS-BUILT DRAWINGS. CONTRACTOR SHALL CONTACT 811 (UNDERGROUND UTILITY LOCATOR) AND MARK EXISTING CONDUITS FOR HIS USE.
- AS PART OF FIXTURE SUBMITTAL, PROVIDE AIMING PLAN FOR ENGINEER'S REVIEW. CONTRACTOR SHALL EMPLOY THE SERVICES OF A CERTIFIED SPORTS LIGHTING TECHNICIAN TO PERFORM AIMING. FINAL AIMING SHALL BE OBSERVED BY ENGINEER - PROVIDE 7-DAY NOTICE OF SCHEDULED AIMING.



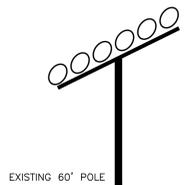
**1** FIELD #3 ELECTRICAL SITE PLAN  
SCALE: 1" = 20'-0"

DETAIL REPRESENTS EXISTING CONFIGURATION FOR REFERENCE. NEW CONFIGURATION SHALL BE DEFINED BY PERFORMANCE BASE SPECIFICATION. SEE NOTE 2 (TYP. ALL DETAILS)

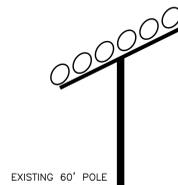
REMOVE EXISTING FIXTURES. EXISTING CROSSBARS MAY BE REUSED (TYP. ALL DETAILS)



**3** POLES A1 & A2  
FIXTURE CONFIGURATION  
NOT TO SCALE



**4** POLES B1 & B2  
FIXTURE CONFIGURATION  
NOT TO SCALE



**5** POLES C1 & C2  
FIXTURE CONFIGURATION  
NOT TO SCALE

**BID ALTERNATE NO. 3**

PROVIDE NEW BRANCH CIRCUITS FOR FIELD #3 USING EXISTING CONDUITS. PROVIDE SAME CONDUCTOR SIZES AS SHOWN AS EXISTING CONDUCTORS ON PLAN.  
(BASE BID: REUSE EXISTING CONDUCTORS/CONDUITS.)





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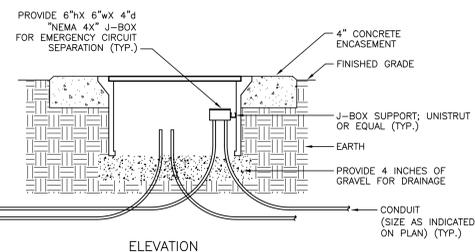
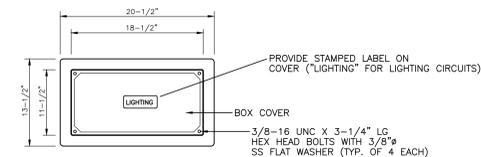
**OWNER REVIEW SET**

**FIELD #4 ELECTRICAL SITE PLAN**

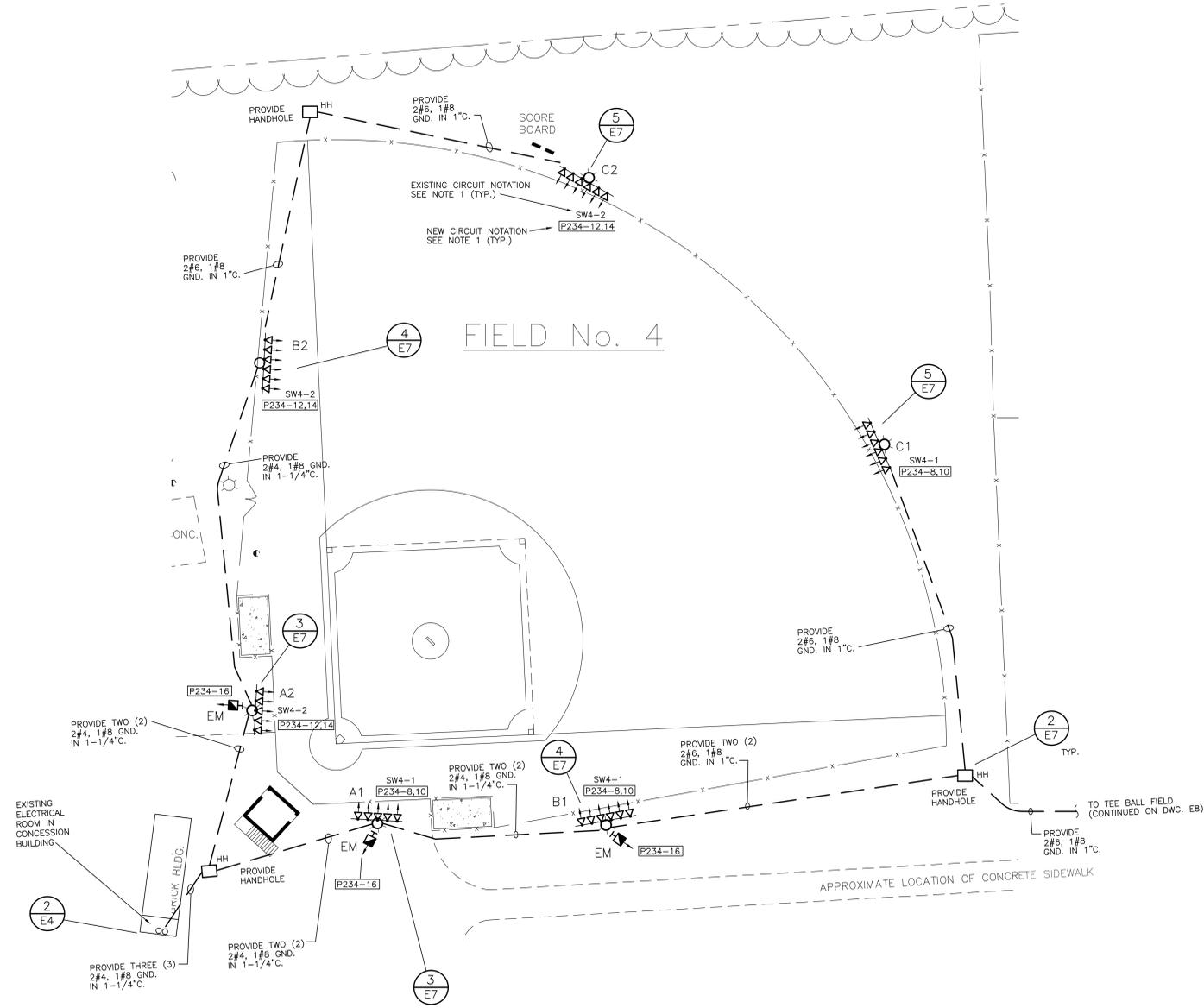
E7

- FIELD LIGHTING NOTES**
- REMOVE EXISTING LIGHTING FIXTURES, BALLASTS, AND FUSING FROM THIS FIELD. PROVIDE CONDUCTORS/CONDUITS WHERE INDICATED ON PLAN (EXISTING CONDUITS MAYBE REUSED; CONFIRM EXISTING ROUTINGS.) CIRCUITS SHOWN ARE BRANCH CIRCUITS FROM PANEL "P234."
  - USE EXISTING POLES AND PROVIDE NEW LIGHTING FIXTURES AS SPECIFIED IN LIGHTING FIXTURE SCHEDULE ON DRAWING E1. PROVIDE ASSOCIATED DRIVERS, FUSES, FUSE HOLDERS, AND #6 CONDUCTORS UP POLE. POLE DESCRIPTIONS AS FOLLOWS:  
  
POLES A1, A2, B1, B2, C1, C2 - EXISTING 50' CONCRETE POLE. PROVIDE ADDITIONAL MOUNTING ARMS AND HARDWARE AS REQUIRED.
  - EXISTING CONDUIT ROUTINGS ON THIS DRAWING ARE SHOWN DIAGRAMMATICALLY BASED ON AS-BUILT DRAWINGS. CONTRACTOR SHALL CONTACT 811 (UNDERGROUND UTILITY LOCATOR) AND MARK EXISTING CONDUITS FOR HIS USE.
  - AS PART OF FIXTURE SUBMITTAL, PROVIDE AIMING PLAN FOR ENGINEER'S REVIEW. CONTRACTOR SHALL EMPLOY THE SERVICES OF A CERTIFIED SPORTS LIGHTING TECHNICIAN TO PERFORM AIMING. FINAL AIMING SHALL BE OBSERVED BY ENGINEER - PROVIDE 7-DAY NOTICE OF SCHEDULED AIMING.
  - PROVIDE EMERGENCY EGRESS LIGHTING FIXTURES ON EXISTING POLES. PROVIDE INDEPENDENT CIRCUIT FROM PANEL "P234" WITHOUT RUNNING THROUGH FIELD LIGHTING CONTROLS. FIXTURES SHALL HAVE INTEGRAL PHOTOCELL AND HI-LO (100%-20%) MOTION SENSORS FOR CONTROL.

MANUFACTURER: QUAZITE (PHONE: 800/346-3062) OR APPROVED EQUAL  
BOX MODEL: PC1118DG12  
COVER MODEL: PC1118CG00-17

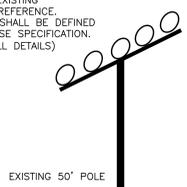


**2** HANDHOLE DETAIL  
NOT TO SCALE



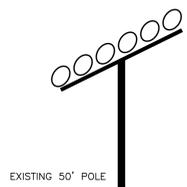
**1** FIELD #4 ELECTRICAL SITE PLAN  
SCALE: 1" = 20'-0"

DETAIL REPRESENTS EXISTING CONFIGURATION FOR REFERENCE. NEW CONFIGURATION SHALL BE DEFINED BY PERFORMANCE BASE SPECIFICATION. SEE NOTE 2 (TYP. ALL DETAILS)

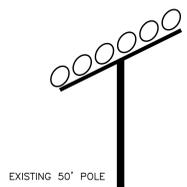


**3** POLES A1 & A2 FIXTURE CONFIGURATION  
NOT TO SCALE

REMOVE EXISTING FIXTURES. EXISTING CROSSBARS MAY BE REUSED (TYP. ALL DETAILS)



**4** POLES B1 & B2 FIXTURE CONFIGURATION  
NOT TO SCALE



**5** POLES C1 & C2 FIXTURE CONFIGURATION  
NOT TO SCALE



**RICHLAND COUNTY  
RECREATION  
COMMISSION**  
**FRIARSGATE PARK  
LIGHTING & MAIN  
ELECTRICAL  
SERVICE PGRADE**

1712 CHADFORD ROAD  
IRMO, SC 29063

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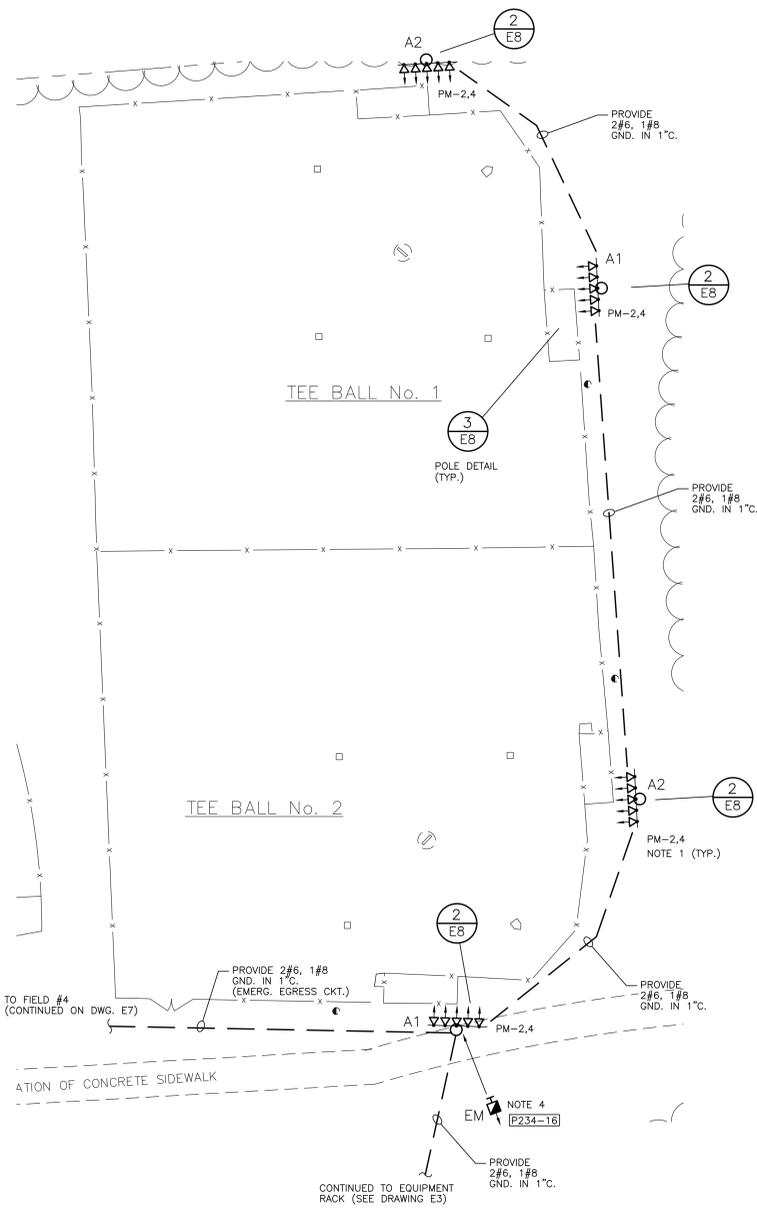
DATE:	16 FEBRUARY 2026
BEA PROJECT #:	RR22601
DESIGNED:	CES
CHECKED:	JLA
DRAWN:	CES
REVISION:	

**OWNER REVIEW SET**

**TEE BALL FIELDS ELECTRICAL  
SITE PLAN**

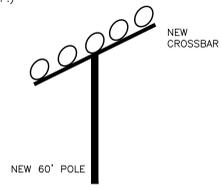
**FIELD LIGHTING NOTES**

1. PROVIDE UNDERGROUND CONDUCTORS/CONDUITS WHERE INDICATED ON PLAN FOR NEW LIGHTING CIRCUITS. COORDINATE ROUTING WITH EXISTING CONDITIONS AND UTILITIES. LIGHTING FOR THESE TEE BALL FIELDS SHALL BE FED FROM MAIN PANEL "PM" LOCATED ON EQUIPMENT RACK SHOWN ON DRAWING E3.
2. PROVIDE POLES AND LIGHTING FIXTURES LIGHTS AS FOLLOWS:  
FIXTURES: SEE LIGHTING FIXTURE SCHEDULE ON DRAWING E1  
PROVIDE ASSOCIATED DRIVERS, FUSES, FUSE HOLDERS, AND #6 CONDUCTORS UP POLE.  
POLES: POLES A1, A2 = PROVIDE 60' PAINTED DIRECT-BURIED STEEL POLES. PROVIDE MOUNTING CROSSBARS AND HARDWARE AS REQUIRED.
3. AS PART OF FIXTURE SUBMITTAL, PROVIDE AIMING PLAN FOR ENGINEER'S REVIEW. CONTRACTOR SHALL EMPLOY THE SERVICES OF A CERTIFIED SPORTS LIGHTING TECHNICIAN TO PERFORM AIMING. FINAL AIMING SHALL BE OBSERVED BY ENGINEER - PROVIDE 7-DAY NOTICE OF SCHEDULED AIMING.
4. PROVIDE EMERGENCY FLOODLIGHT ON NEW POLE FOR SAFETY EGRESS PURPOSES. THIS FIXTURE SHALL BE FED FROM PANEL "P234" VIA FIELD #4.

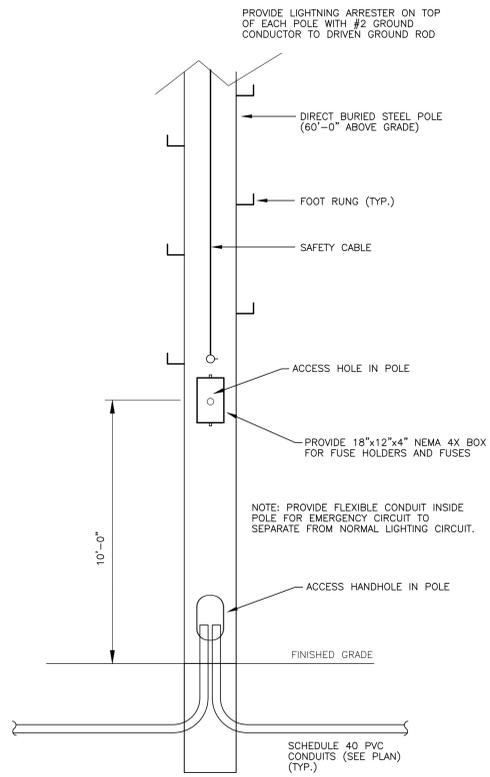


**1**  
TEE BALL FIELDS ELECTRICAL SITE PLAN  
SCALE: 1" = 20'-0"

DETAIL REPRESENTS PROPOSED CONFIGURATION FOR REFERENCE. EXACT CONFIGURATION SHALL BE DEFINED BY PERFORMANCE BASE SPECIFICATION. SEE NOTE 2 (TYP.)



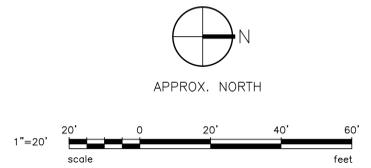
**2**  
POLES A1 & A2  
FIXTURE CONFIGURATION  
NOT TO SCALE

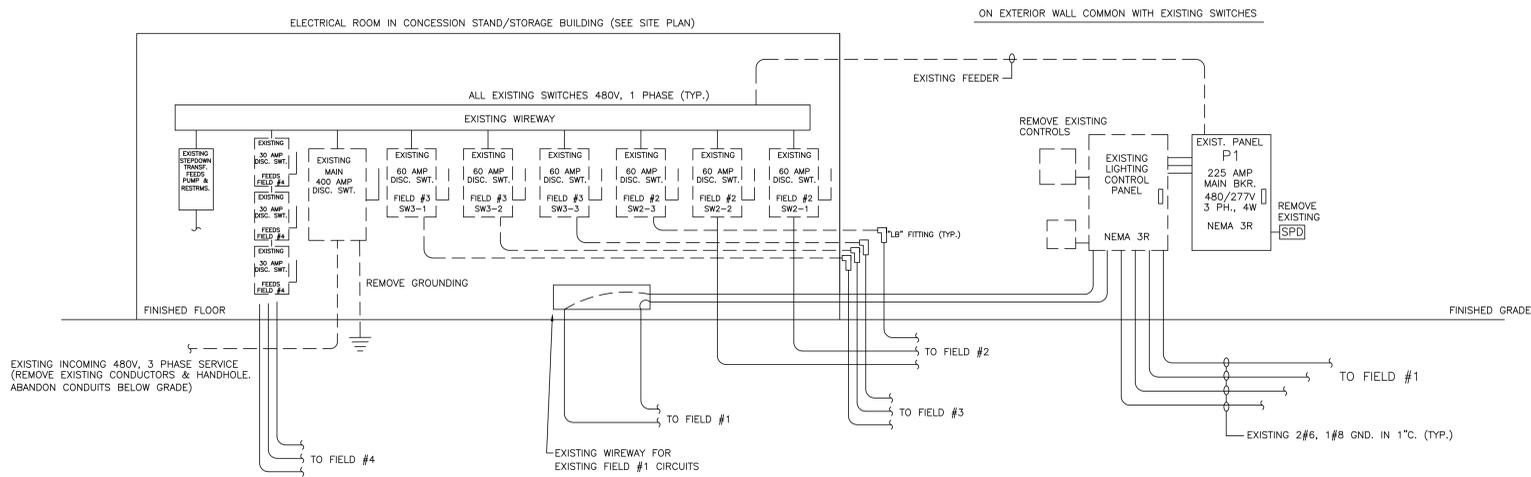


**3**  
TYPICAL POLE DETAIL  
NOT TO SCALE

**BID ALTERNATE NO. 4**

PROVIDE CONCRETE POLES IN LIEU OF STEEL (SAME HEIGHT). WITH PRICE, PROVIDE APPROXIMATE LEAD TIME FOR CONCRETE POLE DELIVERY.  
(BASE BID: PROVIDE STEEL POLES.)





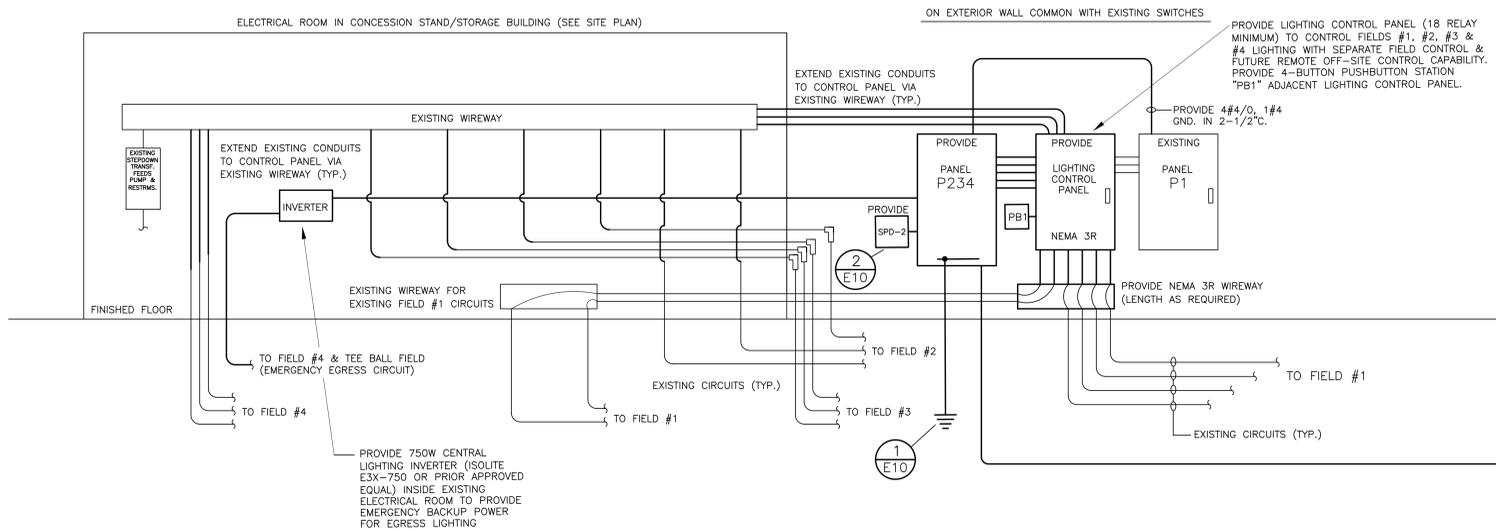
DASHED LINES DENOTES EQUIPMENT TO BE REMOVED (TYP.)

**1**  
E9  
EXISTING POWER SINGLE LINE DIAGRAM  
NOT TO SCALE

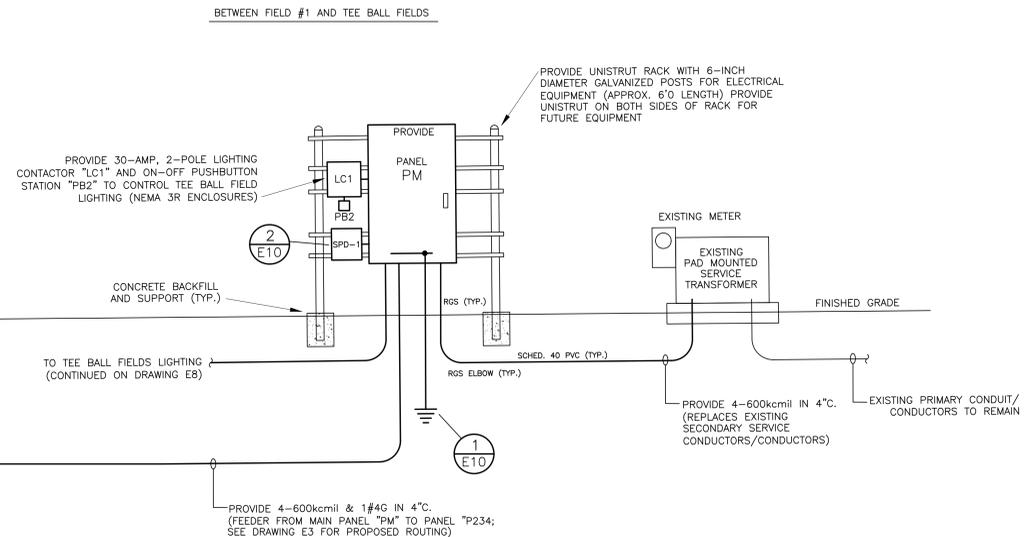
DISTRIBUTION SYSTEM SCHEDULE								
PANEL	DISTRIBUTION	PHASE	# OF WIRES	MAINS	MCB	SCCR	FED FROM	REMARKS
PM	480/277V	3	4	400 A	400 A	10,000	SERVICE TRANSF.	NEMA 3R; SE RATED
P234	480/277V	3	4	400 A	400 A	10,000	PANEL "PM"	NEMA 3R
P1	480/277V	3	4	225 A	225 A	10,000	PANEL "P234"	EXISTING

**AVAILABLE FAULT CURRENT**  
BASED ON A 300 KVA, 2.0%Z UTILITY TRANSFORMER THE MAXIMUM FAULT CURRENT AVAILABLE AT THE SERVICE ENTRANCE DISCONNECT IS CALCULATED TO BE 8,450 AMPS. LABEL THE SERVICE ENTRANCE DISCONNECT WITH THIS MAXIMUM FAULT CURRENT AND THE DATE OF INSTALLATION. CONTACT ENGINEER 2 WEEKS PRIOR TO SUBSTANTIAL COMPLETION TO CONFIRM THE AVAILABLE FAULT CURRENT PRIOR TO LABELING EQUIPMENT.

COORDINATE ALL ELECTRICAL SERVICE REQUIREMENTS WITH POWER COMPANY - MID-CAROLINA ELECTRIC COOPERATIVE, (803) 749-6555



**2**  
E9  
RENOVATION POWER SINGLE LINE DIAGRAM  
NOT TO SCALE



Contractor shall coordinate with utility companies for locations of all utilities at least 72 hours prior to beginning construction. This drawing and the design thereon are the property of Belka Engineering Associates, Inc. The reproduction, copying or use of this drawing without the written consent of Belka Engineering Associates, Inc. is prohibited and any engagement will be subject to legal action.

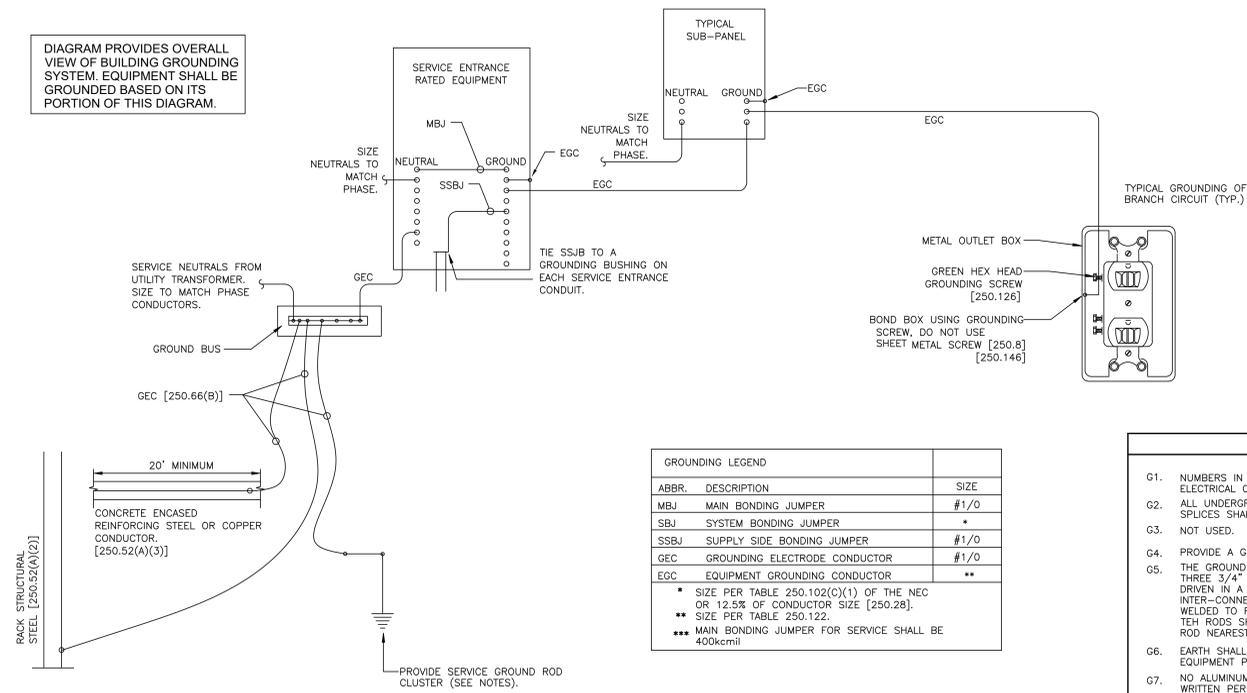


DATE: 16 FEBRUARY 2026  
BEA PROJECT #: RR22601  
DESIGNED: CES  
CHECKED: JLA  
DRAWN: CES  
REVISION:

OWNER REVIEW SET

POWER SINGLE LINE DIAGRAMS

DIAGRAM PROVIDES OVERALL VIEW OF BUILDING GROUNDING SYSTEM. EQUIPMENT SHALL BE GROUNDED BASED ON ITS PORTION OF THIS DIAGRAM.



ABBR.	DESCRIPTION	SIZE
MBJ	MAIN BONDING JUMPER	#1/0
SBJ	SYSTEM BONDING JUMPER	*
SSBJ	SUPPLY SIDE BONDING JUMPER	#1/0
GEC	GROUNDING ELECTRODE CONDUCTOR	#1/0
EGC	EQUIPMENT GROUNDING CONDUCTOR	**

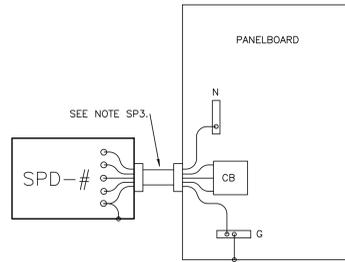
\* SIZE PER TABLE 250.102(C)(1) OF THE NEC OR 12.5% OF CONDUCTOR SIZE [250.28].  
 \*\* SIZE PER TABLE 250.122.  
 \*\*\* MAIN BONDING JUMPER FOR SERVICE SHALL BE 400kcmil

- GROUNDING DETAIL NOTES**
- NUMBERS IN BRACKETS REFER TO SPECIFIC SECTIONS OF THE NATIONAL ELECTRICAL CODE.
  - ALL UNDERGROUND OR OTHERWISE INACCESSIBLE GROUND CONNECTIONS AND SPLICES SHALL BE EXOTHERMICALLY WELDED [250.68].
  - NOT USED.
  - PROVIDE A GROUND WIRE IN ALL CONDUITS.
  - THE GROUND ROD CLUSTER FOR THE SERVICE GROUND SHALL CONSIST OF THREE 3/4" X 10'-0" COPPER CLAD STEEL GROUND RODS. THEY SHALL BE DRIVEN IN A TRIANGULAR CONFIGURATION APPROXIMATELY 20' APART AND INTER-CONNECTED IN DELTA WITH A NO. 4/0 BARE COPPER CONDUCTOR WELDED TO RODS. TOPS OF THE RODS SHALL BE 12" BFG CONNECTION TO THE RODS SHALL BE WITH EXOTHERMIC WELDS. PROVIDE TEST WELL COVER AT ROD NEAREST TO SERVICE ENTRANCE.
  - EARTH SHALL NOT BE USED AS THE SOLE GROUND RETURN PATH FOR ANY EQUIPMENT POWERED UNDER THIS PROJECT.
  - NO ALUMINUM SHALL BE USED FOR GROUNDING WORK WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE ENGINEER. EXCEPTION: ALUMINUM BUILDING STRUCTURAL MATERIALS SHALL BE BONDED WITH LISTED ALUMINUM EQUIPMENT WITH ALUMINUM TO COPPER CONNECTORS FOR ROUTING COPPER EGC'S.
  - PROVIDE GROUNDING BUSHING ON BOTH ENDS OF ALL SERVICE ENTRANCE RACEWAYS. SIZE AS A GEC [250.80]. THIS INCLUDES RIGID STEEL ELBOWS ON PVC CONDUIT.
  - ALL METAL ENCLOSURES AND RACEWAYS SHALL BE BONDED TO GROUND [250.86]. FOR CIRCUITS OVER 250V PROVIDE BOND PER [250.97]. STANDARD LOCKNUTS ARE NOT ACCEPTABLE.
  - PROVIDE EGC CONNECTED TO ANY JUNCTION BOX WHERE SPLICE IS MADE [250.145] OR WHERE A DEVICE IS INSTALLED.
  - PROVIDE BOND TO EXPOSED METAL ON ALL MOTORS, PUMPS, AND LIGHTING FIXTURES PER [250.112].

**1**  
E10  
GROUNDING DETAIL  
NOT TO SCALE

SURGE PROTECTION DEVICE (SPD) SCHEDULE						
SPD ID	LOCATION TYPE	SURGE CURRENT RATING	SURGE COUNTER	VISUAL & AUDIBLE ALARM	NETWORK MONITORING	ENCLOSURE
SPD-1	EXTERNAL	100kA/PHASE	YES	YES	NO	NEMA 3R
SPD-2	EXTERNAL	100kA/PHASE	YES	YES	NO	NEMA 3R

- SURGE PROTECTION DEVICE INSTALLATION NOTES**
- CONTRACTOR SHALL PLAN AND ARRANGE MOUNTING OF SPD AND ASSOCIATED CIRCUIT BREAKER TO ALLOW FOR SHORTEST POSSIBLE CONDUCTOR LENGTHS WITH NO BENDS IN THE LINE CONDUCTORS.
  - PROVIDE CIRCUIT BREAKER SIZE AND WIRE SIZE PER SPD MANUFACTURER'S INSTRUCTIONS REGARDLESS OF WHAT IS SHOWN IN PANEL.
  - CLOSE NIPPLE OR MANUFACTURER PROVIDED COUPLER CONDUITS LONGER THAN CLOSE NIPPLE IS NOT ALLOWED.



**2**  
E10  
SURGE PROTECTIVE DEVICE DETAIL  
NOT TO SCALE

480/277V, 3 PH., 4W, 60 HZ 400 AMP MAIN BREAKER SURFACE MOUNTED 10,000 A.I.C. SYM. (MINIMUM)								PROVIDE PANEL "PM" SE RATED NEMA 3R ENCLOSURE	
LOADS SERVED	BKR. AMP	LOAD KVA	CKT. NO.	(S / N)	CKT. NO.	LOAD KVA	BKR. AMP	LOADS SERVED	
PANEL "P234"	400	40.9	1	1	2	6.5	50	TEE BALL LIGHTING	
		34.9	3	1	4	6.5		SPACE	
		35.4	5	1	6			SPACE	
			7	1	8			SPACE	
			9	1	10			SPACE	
			11	1	12			SPACE	
SURGE PROTECTION DEVICE (SPD)	30#								
CONNECTED LOADS (KVA) #A 47.4 #B 41.4 #C 35.4									
TOTAL LOADS (KVA) 124.2 (PLUS EXISTING CONCESSIONS LOAD)									

SEE SITE PLANS FOR CONDUCTORS/CONDUITS (TYP.)  
 # PROVIDE BREAKER AND CONDUCTOR SIZES PER SPD MANUFACTURER'S SPECS.

480/277V, 3 PH., 4W, 60 HZ 400 AMP MAIN BREAKER SURFACE MOUNTED 10,000 A.I.C. SYM. (MINIMUM)								PROVIDE PANEL "P234" NEMA 3R ENCLOSURE	
LOADS SERVED	BKR. AMP	LOAD KVA	CKT. NO.	(S / N)	CKT. NO.	LOAD KVA	BKR. AMP	LOADS SERVED	
FIELD #2	30	4.0	1	1	2	12.4	225	PANEL "P1"	
FIELD #2	30	4.0	3	1	4	12.0			
FIELD #2	30	4.5	5	1	6	12.4			
FIELD #2	30	4.5	7	1	8	6.0			
FIELD #2	30	4.0	9	1	10	6.0	40	FIELD #4	
FIELD #2	30	4.0	11	1	12	6.0	40	FIELD #4	
FIELD #3	30	4.0	13	1	14	6.0	40	FIELD #4	
FIELD #3	30	4.0	15	1	16	0.4	20	EMERG. EGRESS LGT. (TEE & #4)	
FIELD #3	30	4.0	17	1	18		20	SPARE	
FIELD #3	30	4.0	19	1	20		20	SPARE	
FIELD #3	30	4.5	21	1	22		200	EXISTING WIREWAY (CONCESSIONS)	
FIELD #3	30	4.5	23	1	24		20	SPARE	
SPARE	20		25		26		20	SPARE	
SPARE	20		27		28		20	SPARE	
SPARE	20		29		30		20	SPARE	
SPARE	20		31		32		20	SPARE	
SPARE	20		33		34		20	SPARE	
SPARE	20		35		36		20	SPARE	
SPARE	20		37		38		20	SPARE	
SPARE	20		39		40		20	SPARE	
SPARE	20		41		42		20	SPARE	
SURGE PROTECTION DEVICE (SPD)	30#								
CONNECTED LOADS (KVA) #A 40.9 #B 34.9 #C 35.4									
TOTAL LOADS (KVA) 111.2 (PLUS EXISTING CONCESSIONS LOAD)									

\* - DENOTES EXISTING LOAD  
 SEE SITE PLANS FOR CONDUCTORS/CONDUITS (TYP.)  
 CIRCUIT BREAKER SIZING IS BASED ON PROJECTED NUMBER OF FIXTURES USED WITH ONE-FOR-ONE REPLACEMENT. CONTRACTOR SHALL VERIFY BREAKER SIZES WITH ENGINEER ONCE LIGHTING SYSTEM HAS BEEN FINALIZED.  
 # PROVIDE BREAKER AND CONDUCTOR SIZES PER SPD MANUFACTURER'S SPECS.

480/277V, 3 PH., 4 WIRE, 60 HZ 225 AMP MAIN BREAKER SURFACE MOUNTED 14,000 A.I.C. SYM. (MINIMUM)								EXISTING PANEL "P1" (FIELD #1 LIGHTS)	
LOADS SERVED	BKR. AMP	LOAD KVA	CKT. NO.	(S / N)	CKT. NO.	LOAD KVA	BKR. AMP	LOADS SERVED	
POLE A2	50	3.0	1	1	2	3.0	50	POLE A1	
POLE A2	50	3.0	3	1	4	3.0			
POLE B2	50	3.2	5	1	6	3.2	50	POLE B1	
POLE B2	50	3.2	7	1	8	3.2			
POLE C3 & C4	50	3.0	9	1	10	3.0	50	POLES C1 & C2	
POLE C3 & C4	50	3.0	11	1	12	3.0			
SPACE			13		14			SPACE	
SPACE			15		16			SPACE	
SPACE			17		18			SPACE	
SPACE			19		20			SPACE	
SPACE			21		22			SPACE	
SPACE			23		24			SPACE	
SURGE PROTECTION DEVICE (SPD)	80								
CONNECTED LOADS (KVA) ---#A 12.4 ---#B 12.0 ---#C 12.4									
TOTAL LOADS (KVA) --- 36.8									

SEE SITE PLANS FOR CONDUCTORS/CONDUITS (TYP.)  
 CIRCUIT BREAKER SIZING IS BASED ON PROJECTED NUMBER OF FIXTURES USED WITH ONE-FOR-ONE REPLACEMENT. CONTRACTOR SHALL VERIFY BREAKER SIZES WITH ENGINEER (AND REPLACE AS REQUIRED) ONCE LIGHTING SYSTEM HAS BEEN FINALIZED.



**RICHLAND COUNTY  
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 LIGHTING & MAIN  
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 CHECKED: JLA  
 DRAWN: CES  
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PANELBOARD  
 SCHEDULES AND  
 DETAILS