

MANDEVILLE HIGH SCHOOL SOFTBALL FIELD LIGHTING

1 Skipper Dr. Mandeville, LA 70471
STPSB Project No. 1937



drake engineering
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MANDEVILLE HIGH SCHOOL
SOFTBALL FIELD LIGHTING

1 SKIPPER DR,
MANDEVILLE, LA 70471

DRAWN
CEL
CHECKED
MBK
REVISED

PROJECT
1909

DATE
05/05/2026

SHEET
E0.0

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
LIGHTING			
	SURFACE, SUSPENDED OR RECESSED (TYPE DETERMINES MOUNTING)		
	SURFACE OR RECESSED DOWN LIGHT (TYPE DETERMINES MOUNTING)		
	SURFACE OR RECESSED DOWNLIGHT WITH A WALWASH TRIM (TYPE DETERMINES MOUNTING)		
	SURFACE OR RECESSED FIXTURE (TYPE DETERMINES MOUNTING)		
	WALL BRACKET FIXTURE		
	PENDANT FIXTURE		
	LINEAR PENDANT		
	UTILITY LIGHT		
	TRACK LIGHTING		
	WALL MOUNTED EXTERIOR WALL PACK		
	WALL MOUNTED EMERGENCY FIXTURE		
	CEILING MOUNTED EXIT SIGN - SHADED AREAS INDICATE FACES - WHEN SHOWN ARROWS INDICATE DIRECTION OF EXIT - BATTERY OR EM. GEN.		
	WALL MOUNTED EXIT SIGN - SHADED AREAS INDICATE FACES - WHEN SHOWN ARROWS INDICATE DIRECTION OF EXIT - BATTERY OR EM. GEN.		
LIGHT FIXTURE MODIFIERS			
'F'	DESIGNATES FIXTURE TYPE - SEE LIGHTING FIXTURE SCHEDULE		
NL	NIGHT LIGHT - FIXTURE TO REMAIN ON WHEN OTHER FIXTURES WITH IN THE SPACE ARE OFF		
E	EMERGENCY LIGHT - FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY		
SWITCHES			
	FLUSH MOUNTED WALL SWITCH WITH STAINLESS STEEL DEVICE PLATE, SINGLE POLE, 20A, 120/277V, SATIN FINISH, MOUNTED AT 48" A.F.F. TO CENTERLINE OR AS NOTED.		
	OCCUPANCY SENSOR - CEILING MOUNT - DUAL TECH. TYPE (PIR & ULTRASONIC)		
	OCCUPANCY SENSOR - WALL MOUNT - DUAL TECH. TYPE (PIR & ULTRASONIC)		
	PHOTOCELL - MOUNTED ABOVE THE ROOF LINE AND FACING THE NORTHERN SKY		
SWITCH MODIFIERS			
T	DIGITAL TIMER SWITCH WITH THREE WAY SWITCH OPTION		
DM	DIMMER OCCUPANCY SENSOR SWITCH - 0-10V DIMMER, DUAL TECH. TYPE (PIR & ULTRASONIC)		
3	THREE WAY SWITCH - PROVIDE TRAVELER WIRES		
4	FOUR WAY SWITCH - PROVIDE TRAVELER WIRES		
D	SWITCH WITH DIMMING		
M	MOTOR RATED SWITCH WITH THERMAL OVERLOAD		
POWER			
	FLUSH WALL MOUNTED DUPLEX RECEPTACLE, 20A, 120V, MOUNTED AT 18" A.F.F. TO CENTERLINE OR AS NOTED.		
	DUPLEX RECEPTACLE WITH SAME SPECS AS ABOVE WITH INTERNAL GROUND FAULT CIRCUIT INTERRUPTER.		
	DUPLEX RECEPTACLE WITH SAME SPECS AS ABOVE FOR A DEDICATED CIRCUIT.		
	DUPLEX RECEPTACLE WITH SAME SPECS AS ABOVE WITH A SEPARATE ISOLATED GROUND CONDUCTOR CARRIED BACK TO THE BREAKER.		
	DUPLEX RECEPTACLE WITH SAME SPECS AS ABOVE WITH INTERNAL GROUND FAULT CIRCUIT INTERRUPTER AND A WEATHERPROOF COVER.		
	DUPLEX RECEPTACLE WITH SAME SPECS AS ABOVE WITH 2 USB OUTLETS		
	QUADRUPLER RECEPTACLE WITH SAME SPECS AS ABOVE.		
	SPECIAL RECEPTACLE, SEE SPECIFIC NOTES FOR VOLTAGE AND CONFIGURATION		
	DUPLEX RECEPTACLE WITH SAME SPECS AS ABOVE MOUNTED FLUSH TO CEILING		
	POWER OUTLET IN PVC FLOOR BOX FLUSH MOUNTED IN THE CONCRETE SLAB		
	PLUGMOLD - LENGTH AS INDICATED ON DRAWINGS		
	JUNCTION BOX WITH COVERPLATE		
	TRANSFORMER - KVA AS DENOTED		
	FUSIBLE SAFETY SWITCH, SIZE NOTED (FRAME//POLES/FUSE)		
	PANELBOARD, SURFACE OR RECESSED AS SHOWN		
	MOTOR, SIZE AS NOTED, "F" DENOTES FRACTIONAL HP TYPE EXHAUST FAN.		
	MOTOR DRIVE.		
	#10 CONDUIT AND WIRE CONCEALED IN WALL OR ABOVE CEILING. THE ARROW INDICATES A HOMERUN TO THE PANEL. SLASHES MARKS INDICATE THE NUMBER OF #12 WIRES IN THE CONDUIT, ABSENCE OF SLASHES IS (2) #12. SIZE CONDUIT PER N.E.C. A SEPARATE EQUIPMENT GROUND IS REQUIRED BUT IT IS NOT DENOTED WITH A SLASH. #10 DENOTES AN INCREASE IN THE WIRE SIZE.		
	COMBINATION CARBON MONOXIDE AND SMOKE ALARM, 120V, WITH BATTERY BACK-UP. TIE INTO EMERGENCY PANEL		
TELEPHONE / DATA / TELEVISION			
	COMBINATION OUTLET, WALL MOUNTED 18" A.F.F. OR AS NOTED, WITH 3/4" CONDUIT, WITH PULL STRING, STUBBED ABOVE CEILING AND BUSHING INSTALLED.		
	DATA OUTLET, WALL MOUNTED 18" A.F.F. OR AS NOTED, WITH TWO PORTS UNLESS SUBSCRIPT INDICATES OTHERWISE, WITH 1" CONDUIT, WITH PULL STRING STUBBED ABOVE CEILING AND WITH BUSHING INSTALLED.		
	TELEPHONE OUTLET, WALL MOUNTED 18" A.F.F. OR AS NOTED, WITH 3/4" CONDUIT, WITH PULL STRING, STUBBED ABOVE CEILING AND WITH BUSHING INSTALLED		
	DATA OUTLET IN PVC FLOOR BOX FLUSH MOUNTED IN THE CONCRETE SLAB		
	DATA OUTLET MOUNTED FLUSH TO CEILING		
	TELEVISION OUTLET - VERIFY MOUNTING OUTLET AND ADJACENT RECEPTACLE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH IN. 1" CONDUIT, WITH PULL STRING STUBBED ABOVE CEILING AND WITH BUSHING INSTALLED.		
SPECIAL SYSTEMS/SECURITY			
	CARD READER ENTRANCE PAD		
	WIRELESS ACCESS POINT		
	CEILING MOUNTED INTERCOM SPEAKER		
	SECURITY DOOR CONTACTOR		
	MICROPHONE		
	INTERCOM STATION		
	SINGLE FACE CLOCK		
	DUAL FACE CLOCK		
	SINGLE FACE CLOCK WITH INTEGRAL INTERCOM SPEAKER		
	PA SPEAKER		
	WEATHERPROOF HORN		
	MAGNETIC LOCK		
	ELECTRIC STRIKE		
	REQUEST TO EXIT BUTTON		
FIRE ALARM			
	FIRE ALARM PULL STATION		
	FIRE ALARM HORN		
	WALL(BOX) AND CEILING(HEX) MOUNTED FIRE ALARM AUDIBLE HORN/VISUAL SIGNAL UNIT		
	WALL(BOX) AND CEILING(HEX) MOUNTED FIRE ALARM VISUAL SIGNAL UNIT		
	WALL(BOX) AND CEILING(HEX) MOUNTED FIRE ALARM SPEAKER /VISUAL SIGNAL UNIT		
	FIRE ALARM CONTROL PANEL		
	REMOTE ANNUCIATOR PANEL		
	VOICE EVACUATION CONTROL PANEL		
	SMOKE DETECTOR		
	HEAT DETECTOR		
	DUCT SMOKE DETECTOR		
	FLOW SWITCH		
	TAMPER SWITCH		
	FIRE ALARM CONTROL MODULE		
	FIRE RELAY		
	FIRE ALARM DOOR HOLDER		
	FIRE ALARM MONITOR MODULE		
	FIRE FIGHTER'S TELEPHONE		
POWER DEVICE MODIFIERS			
AF	ARC FAULT PROTECTED DEVICE		
A.F.F.	ABOVE FINISHED FLOOR OR GRADE		
UC	UNDER COUNTER REFRIGERATOR		
WP	WEATHERPROOF		
NRC	NEAREST RECEPTACLE CIRCUIT		
CT	COUNTERTOP HEIGHT		
GFI	GROUND FAULT PROTECTED DEVICE		
E	EXISTING OUTLET BOX TO REMAIN - REPLACE WITH INDICATED NEW DEVICE		
H	HOSPITAL GRADE DEVICE WITH REDUNDANT GROUND		

PROJECT DESIGN TEAM

ELECTRICAL
Drake Engineering, LLC
2783 Lapalco Blvd.
Harvey, LA 70058

CIVIL
Kyle and Associates, LLC
638 Village Lane N.
Mandeville, LA 70471

INDEX OF DRAWINGS

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E2.0 ELECTRICAL RISER DIAGRAM

CIVIL
C1.0 CIVIL - SITE ENTRANCE AND DRAINAGE

GENERAL ELECTRICAL NOTES:

- ALL WORK SHALL CONFORM TO THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL, STATE AND NATIONAL CODES AND STANDARDS.
- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NO EXTRAS WILL BE ALLOWED FOR CONDITIONS THAT A SITE VISIT SHOULD HAVE REVEALED.
- ALL ELECTRICAL LOCATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL INSTALLATIONS AND THE ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL APPLY FOR AND PAY ALL NECESSARY PERMIT FEES.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE UTILITIES WITH THE RESPECTIVE LOCAL UTILITY COMPANIES AND VERIFY THE AVAILABILITY OF THE SERVICE INDICATED ANY SERVICE CHARGES SHALL BE PAID BY THE CONTRACTOR.
- CONTRACTOR SHALL VERIFY THE ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT WITH THE EQUIPMENT SUPPLIER. BREAKER AND DISCONNECT SIZES SHALL MATCH THE ACTUAL REQUIREMENTS OF THE EQUIPMENT PROVIDED. REFERENCE MECHANICAL DRAWING FOR DETAILS, DIMENSIONS AND EXACT LOCATIONS OF EQUIPMENT.
- CONTRACTOR SHALL VERIFY THE ELECTRICAL REQUIREMENTS FOR ALL OWNER PROVIDED OR PROJECT SPECIFIC EQUIPMENT WITH EQUIPMENT SPECIFICATIONS AND REQUIREMENTS. INSTALLATION SHALL BE INTEGRATED WITH THE CONSTRUCTION OF THE (ADJACENT, SURROUNDING) DISCIPLINES. BREAKER, DISCONNECT, JUNCTION BOXES, AND/OR RECEPTACLES SIZES SHALL MATCH THE ACTUAL REQUIREMENTS OF THE EQUIPMENT PROVIDED. REFERENCE ARCHITECTURAL DRAWINGS AND EQUIPMENT SPECIFICATIONS FOR DETAILS, DIMENSIONS AND EXACT LOCATIONS OF EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL VOLTAGE DROP LOST IN CONDUCTORS. VOLTAGE DROP SHALL NOT EXCEED 3% LOSS ON ANY FEEDER OR BRANCH CIRCUIT.
- PENETRATIONS THROUGH FIRE/SMOKE RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814. REFERENCE ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS.
- ALL ELECTRICAL SYSTEMS, EQUIPMENTS AND COMPONENTS SHALL BE LOCATED AT OR ABOVE THE BASE FLOOD ELEVATION OR GRADE ELEVATION, WHICHEVER IS HIGHER, AS PER IBC 2021 ART. 1621.1, LOCAL AUTHORITY'S HAVING JURISDICTION TO THE INTERNATIONAL BUILDING CODE ART. 110.21, 2735(B).
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED EXTERIOR ELECTRICAL DEVICES INCLUDING, BUT NOT LIMITED TO, CONDUITS AND JUNCTION BOXES. PAINT SHALL MATCH WITH THE SURROUNDING AREA. VERIFY EXACT COLOR WITH THE ARCHITECT.
- CONTRACTOR SHALL USE METAL RACEWAYS AND BOXES FOR OUTLET LOCATIONS. ALL RACEWAYS AND BOXES THAT CANNOT BE RECESSED IN THE WALL SHALL BE APPROVED BY THE ARCHITECT AND SHALL BE SUPPORTED WITH SCREW/ANCHOR FASTENERS. GLUE OR TAPED SUPPORTS ARE NOTE ACCEPTABLE.
- POWER OUTAGES SHALL BE COORDINATED WITH THE OWNER AT A TIME THAT IS CONVENIENT TO THEIR SCHEDULE. DOWNTIME SHALL BE KEPT TO A MINIMUM. THIS MAY REQUIRE WORKING AFTER HOURS AND/OR WEEKENDS. CONTRACTOR SHALL COORDINATE INSTALLATIONS WITH THE ARCHITECT AND THE OWNER'S CONSTRUCTION MANAGER REGARDING THE PHASING OF THE PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SYSTEM INCLUDING BUT NOT LIMITED TO FIRE ALARM, CATV, COMPUTER, TELEPHONE, SECURITY, AND CAMERA SYSTEMS. CONTRACTOR SHALL VISIT THE SITE TO INSPECT EXISTING CONDITIONS PRIOR TO BID. EXISTING SPECIAL SYSTEMS CABLES SHALL NOT BE CUT UNDER ANY CIRCUMSTANCE WITHOUT WRITTEN CONSENT FROM THE OWNER. ALL OF THESE SYSTEMS ARE IN PROPER WORKING ORDER AND IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY DAMAGE DONE TO THE INTEGRITY OF THESE SYSTEMS. SEE SPECIFICATIONS FOR MORE DETAILS.



NOTE: POLE LOCATIONS DIMENSIONS ARE RELATIVE TO 0,0 REFERENCE POINT(S)

1 SITE PHOTOMETRICS
E0.0 SCALE: NOT TO SCALE

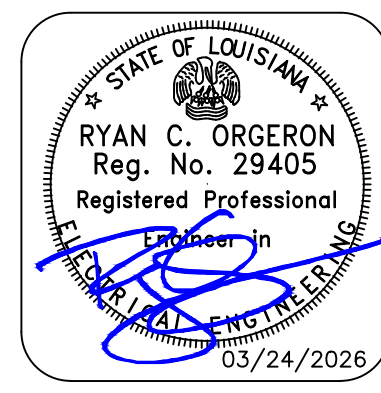
VOLTAGE DROP SCHEDULE

DISTANCE	CONDUCTOR SIZE
120V CIRCUITS UP TO 8 AMPS	
1' - 120'	#12 AWG
121' - 190'	#10 AWG
191' - 300'	#8 AWG
301' - 470'	#6 AWG
120V CIRCUITS 9 AMPS TO 16 AMPS	
1' - 65'	#12 AWG
66' - 110'	#10 AWG
111' - 170'	#8 AWG
171' - 270'	#6 AWG
277V CIRCUITS UP TO 16 AMPS	
1' - 160'	#12 AWG
161' - 250'	#10 AWG
251' - 390'	#8 AWG
391' - 620'	#6 AWG

NOTE: CONTRACTOR SHALL UPSIZE CONDUCTORS PER VOLTAGE DROP SCHEDULE ABOVE.

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY OR UNDER MY CLOSE SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THEY COMPLY WITH ALL CITY REQUIREMENTS AND THAT I AM (NOT) ADMINISTERING THE WORK.

ENGINEER



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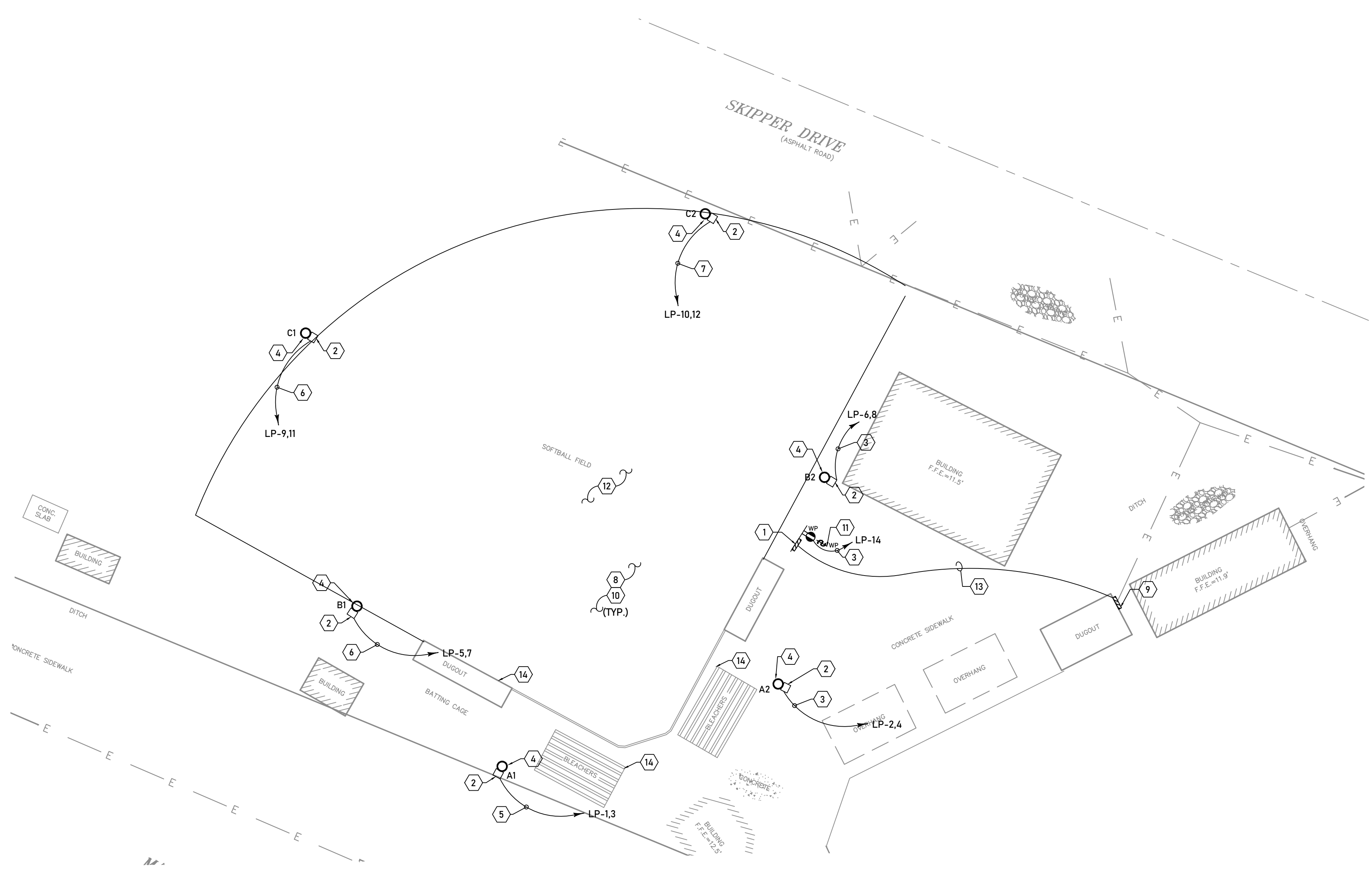
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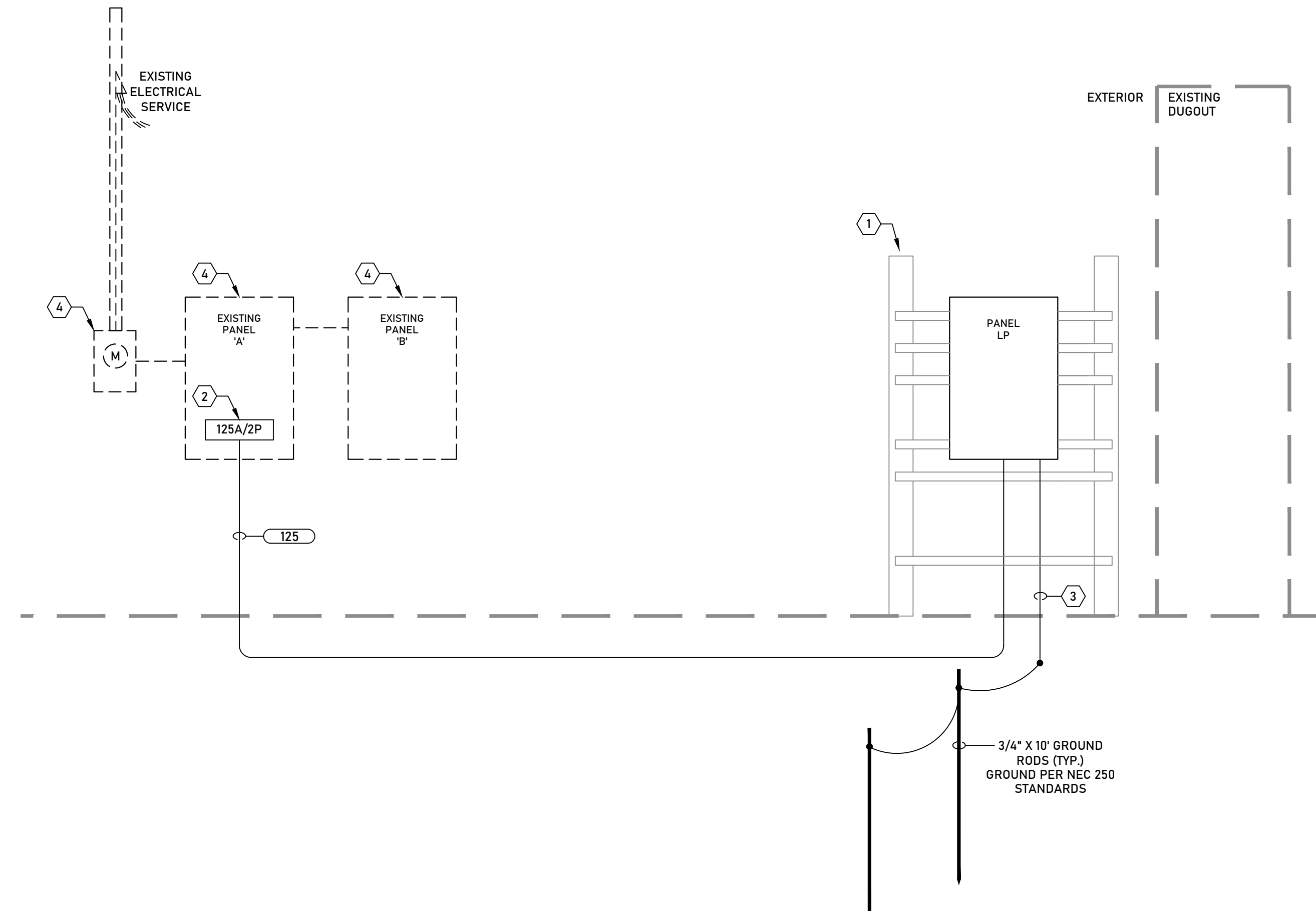
1 ELECTRICAL SITE PLAN
 E1.0 SCALE: N.T.S.

ELECTRICAL KEY NOTES

- 1 APPROXIMATE LOCATION OF NEW ELECTRICAL SERVICE FOR NEW FIELD LIGHTING SYSTEM.
- 2 APPROXIMATE LOCATION OF LIGHTING SUPPLIER POLE LIGHT CONTROL BOX.
- 3 3/4" CONDUIT WITH TWO (2) #12 AWG CONDUCTORS AND #12 AWG GROUND.
- 4 APPROXIMATE LOCATION HIGH MAST STEEL POLE FOR SOFTBALL LIGHTING POLE SHALL BE SET IN CONCRETE ENCASEMENT.
- 5 1" CONDUIT WITH TWO (2) #8 AWG CU CONDUCTORS AND #8 AWG GROUND.
- 6 1" CONDUIT WITH TWO (2) #6 AWG CU CONDUCTORS AND #6 AWG GROUND.
- 7 3/4" CONDUIT WITH TWO (2) #10 AWG CU CONDUCTORS AND #10 AWG GROUND.
- 8 ASSURE ACCURATE KNOWLEDGE OF THE SITE FOR UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO ANY DEMOLITION WORK. CONTRACTOR SHALL PAY SPECIAL ATTENTION TO THE EXISTING DRAINAGE AROUND THE INFIELD.
- 9 APPROXIMATE LOCATION OF EXISTING PANELBOARD 'A'. SEE RISER DIAGRAM, SHEET E2.0 FOR MORE INFORMATION.
- 10 PROVIDE INGROUND QUAZITE PULL BOXES AS NECESSARY FOR FEEDER ROUTING. NO SPLICES SHALL BE ALLOWED.
- 11 INSTALL ON/OFF CONTROL FOR SOFTBALL FIELD LIGHTING. NEMA 3R CONTROL SWITCH SHALL BE PROVIDED BY LIGHTING SUPPLIER. SWITCH SHALL BE KEYED OR BE IN LOCKABLE ENCLOSURE. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH IN.
- 12 CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND IMPERFECTIONS TO FIELD DUE TO CONSTRUCTION, INCLUDING DRY DIVOTS.
- 13 CONDUIT SHALL BE ROUTED UNDERGROUND FROM THE EXISTING PANELBOARD TO PROVIDE POWER TO THE PANELBOARD FOR FIELD LIGHTING. THESE CONDUITS SHALL BE BORED OR BURIED A MINIMUM OF 36" BELOW GRADE. VERIFY EXACT INSTALLATION DETAILS WITH EXISTING CONDITIONS PRIOR INSTALLATION. SEE RISER DIAGRAM, SHEET E2.0 FOR MORE DETAILS.
- 14 CONTRACTOR SHALL REMOVE AND STORE BLEACHERS AND DUGOUTS AS REQUIRED FOR UNDERGROUND WORK; CONTRACTOR SHALL REINSTALL OR REPLACE AS NEEDED AND REPAIR/RESTORE FIELD SURFACES, FILL/COMPACT EXCAVATIONS, AND REPAIR DRY DIVOTS TO MATCH EXISTING CONDITIONS; COORDINATE SCHEDULE WITH OWNER.

Structure/Fixture Summary							
Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Load	Circuit	
A1	60'	60'	1	TLC-LED-550	0.54 kW	A	
	60'	60'	2	TLC-LED-900	1.76 kW	A	
	40'	16'	1	TLC-LED-550	0.54 kW	A	
A2	60'	16'	1	TLC-BT-575	0.57 kW	A	
	60'	60'	2	TLC-LED-550	0.54 kW	A	
	60'	16'	1	TLC-LED-900	1.76 kW	A	
B1-B2	60'	16'	1	TLC-BT-575	0.57 kW	A	
	60'	60'	1	TLC-LED-1200	1.17 kW	A	
	60'	60'	2	TLC-LED-550	0.54 kW	A	
C1-C2	60'	16'	1	TLC-LED-900	1.76 kW	A	
	60'	16'	1	TLC-BT-575	0.57 kW	A	
	60'	16'	1	TLC-LED-900	0.89 kW	A	
6			27	TLC-LED-550	1.08 kW	A	
				TLC-BT-575	0.57 kW	A	
					19.47 kW		

Fixture Type Summary									
Type	Circuit	Source	Wattage	Lumens	L90	L80	L70	Quantity	
TLC-BT-575	A	LED 5700K - 75 CRI	575W	40,000	>120,000	>120,000	>120,000	3	
TLC-LED-550	A	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	3	
TLC-LED-1200	A	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	2	
TLC-LED-550	A	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	9	
TLC-LED-900	A	LED 5700K - 75 CRI	890W	109,000	>120,000	>120,000	>120,000	6	
TLC-LED-900	A	LED 5700K - 75 CRI	890W	89,650	>120,000	>120,000	>120,000	2	



1 ELECTRICAL RISER DIAGRAM
E2.0 SCALE: NOT TO SCALE

ELECTRICAL KEY NOTES

- ① THE CONTRACTOR SHALL BE RESPONSIBLE FOR FABRICATING STRUCTURAL SUPPORTS AS NECESSARY TO PROPERLY MOUNT PANELBOARD ABOVE FLOOD ELEVATION. THE SUPPORTS SHALL BE FABRICATED WITH GALVANIZED STEEL AND SET IN CONCRETE. THE EXACT MOUNTING LOCATION SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION. CARE SHALL BE TAKEN TO MAINTAIN PROPER WORKING CLEARANCES FOR ALL EQUIPMENT. THE EQUIPMENT SHALL BE PROPERLY GROUNDED PER NEC. CONTRACTOR SHALL PROVIDE DISCONNECT HANDLE EXTENSION AS NECESSARY PER NEC.
- ② CONTRACTOR SHALL PROVIDE A NEW 125A/2P BREAKER IN EXISTING SIEMENS PANELBOARD, CAT. NO. 64160LY600ETS, S.O. 17-77428-A00 FOR NEW PANEL FEEDER. PROVIDE BREAKER AND BREAKER ASSEMBLY KIT IF NECESSARY.
- ③ #6 AWG GROUNDING ELECTRODE CONDUCTOR ROUTED TO TWO (2) 3/4" X 10' COPPERBONDED GROUND RODS, DRIVEN A MINIMUM OF SIX FEET APART. PROVIDE #6 AWG BARE COPPER BETWEEN RODS, MINIMUM OF 18" BELOW GRADE. CONNECT TO THE COLD WATER PIPE AND THE STRUCTURE STEEL. CONNECT #6 AWG GROUND TO NEUTRAL BUS.
- ④ EXISTING ELECTRICAL EQUIPMENT TO REMAIN. CONTRACTOR SHALL PROTECT THE EXISTING ELECTRICAL EQUIPMENT THROUGHOUT THE PROJECT. CONTRACTOR SHALL PROVIDE THE NECESSARY PROTECTION TO AVOID DAMAGE TO THE EQUIPMENT.

FEEDER SCHEDULE
3φ, 3W OR 1φ, 3W COPPER CONDUCTORS

FEEDER NO.	CONDUITS NO.-SIZE	PHASE CONDUCTORS PER CONDUIT	NEUTRAL CONDUCTORS PER CONDUIT	GROUND CONDUCTORS PER CONDUIT	NOTES	FEEDER NO.	CONDUITS NO.-SIZE	PHASE CONDUCTORS PER CONDUIT	NEUTRAL CONDUCTORS PER CONDUIT	GROUND CONDUCTORS PER CONDUIT	NOTES
20	1-75"	3-#12 AWG	---	1-#12 CU AWG	X	200	1-2"	3-#3/0 AWG	---	1-#6 CU AWG	X
25	1-75"	3-#10 AWG	---	1-#10 CU AWG	X	225	1-2.5"	3-#4/0 AWG	---	1-#4 CU AWG	X
30	1-75"	3-#10 AWG	---	1-#10 CU AWG	X	250	1-3"	3-#250 KCMIL	---	1-#4 CU AWG	X
35	1-1"	3-#8 AWG	---	1-#10 CU AWG	X	300	1-3"	3-#350 KCMIL	---	1-#4 CU AWG	X
40	1-1"	3-#8 AWG	---	1-#10 CU AWG	X	350	1-3"	3-#500 KCMIL	---	1-#3 CU AWG	X
45	1-1"	3-#8 AWG	---	1-#10 CU AWG	X	400	1-4"	3-#600 KCMIL	---	1-#3 CU AWG	X
50	1-1"	3-#8 AWG	---	1-#10 CU AWG	X	600	2-3"	3-#350 KCMIL	---	1-#1 CU AWG	X
60	1-1"	3-#6 AWG	---	1-#10 CU AWG	X	800	2-4"	3-#600 KCMIL	---	1-#1/0 CU AWG	X
70	1-1.25"	3-#4 AWG	---	1-#8 CU AWG	X	1000	3-4"	3-#500 KCMIL	---	1-#2/0 CU AWG	X
80	1-1.25"	3-#4 AWG	---	1-#8 CU AWG	X	1200	3-4"	3-#600 KCMIL	---	1-#3/0 CU AWG	X
90	1-1.25"	3-#3 AWG	---	1-#8 CU AWG	X	1600	4-4"	3-#600 KCMIL	---	1-#4/0 CU AWG	X
100	1-1.25"	3-#3 AWG	---	1-#8 CU AWG	X	2000	5-4"	3-#600 KCMIL	---	1-#250 CU KCMIL	X
110	1-1.5"	3-#2 AWG	---	1-#6 CU AWG	X	2500	6-4"	3-#600 KCMIL	---	1-#350 CU KCMIL	X
125	1-1.5"	3-#1 AWG	---	1-#6 CU AWG	X	3000	8-4"	3-#500 KCMIL	---	1-#400 CU KCMIL	X
150	1-2"	3-#1/0 AWG	---	1-#6 CU AWG	X	4000	10-4"	3-#600 KCMIL	---	1-#500 CU KCMIL	X
175	1-2"	3-#2/0 AWG	---	1-#6 CU AWG	X						

NOTE: FOR 1φ 3W SERVICES PROVIDE TWO (2) PHASE CONDUCTORS, ONE (1) NEUTRAL CONDUCTOR, AND ONE (1) GROUND CONDUCTOR PER FEEDER SIZING ABOVE.

Branch Panel: LP

Location: Volts: 120/240 Single A.I.C. Rating: 22kA
 Supply From: Phases: 1 Mains Type: MCB Mains Rating: 125A
 Mounting: SURFACE Wires: 3 MCB Rating: 125A
 Enclosure: NEMA-3R

Notes: **PROVIDE SPD PER MANUFACTURER'S RECOMMENDATIONS**

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	
1	POLE A1	20 A	2	1705	1435		2	20 A	2	
3	--	--	--		1705	1435	--	--	4	
5	POLE B1	25 A	2	2020	2020		2	25 A	6	
7	--	--	--		2020	2020	--	--	8	
9	POLE C1	20 A	2	1270	1270		2	20 A	10	
11	--	--	--		1270	1270	--	--	12	
13	SPARE	20 A	2	180			1	20 A	14	
15	--	--	--				1	20 A	16	
17	SPARE	25 A	2				1	20 A	18	
19	--	--	--				1	20 A	20	
21							1	20 A	22	
23							1	20 A	24	
25							1	20 A	26	
27							2	30 A	28	
29							--	--	30	
				Total Load: 9900 VA						
				Total Amps: 83 A		9720 VA				
						Total Connected:		19620 VA		
						Design FLA:		82 amp		

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MANDEVILLE HIGH SCHOOL
 SOFTBALL FIELD LIGHTING
 1 SKIPPER DR,
 MANDEVILLE, LA 70471

DRAWN
 CEL
 CHECKED
 MBK
 REVISED

PROJECT
 1909

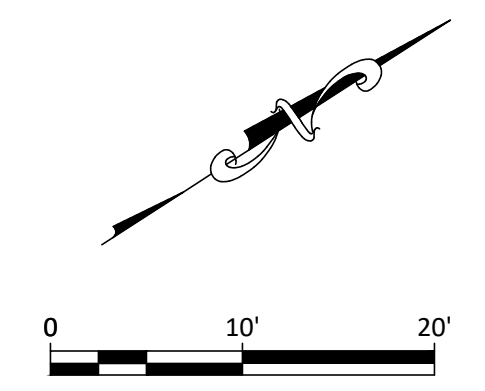
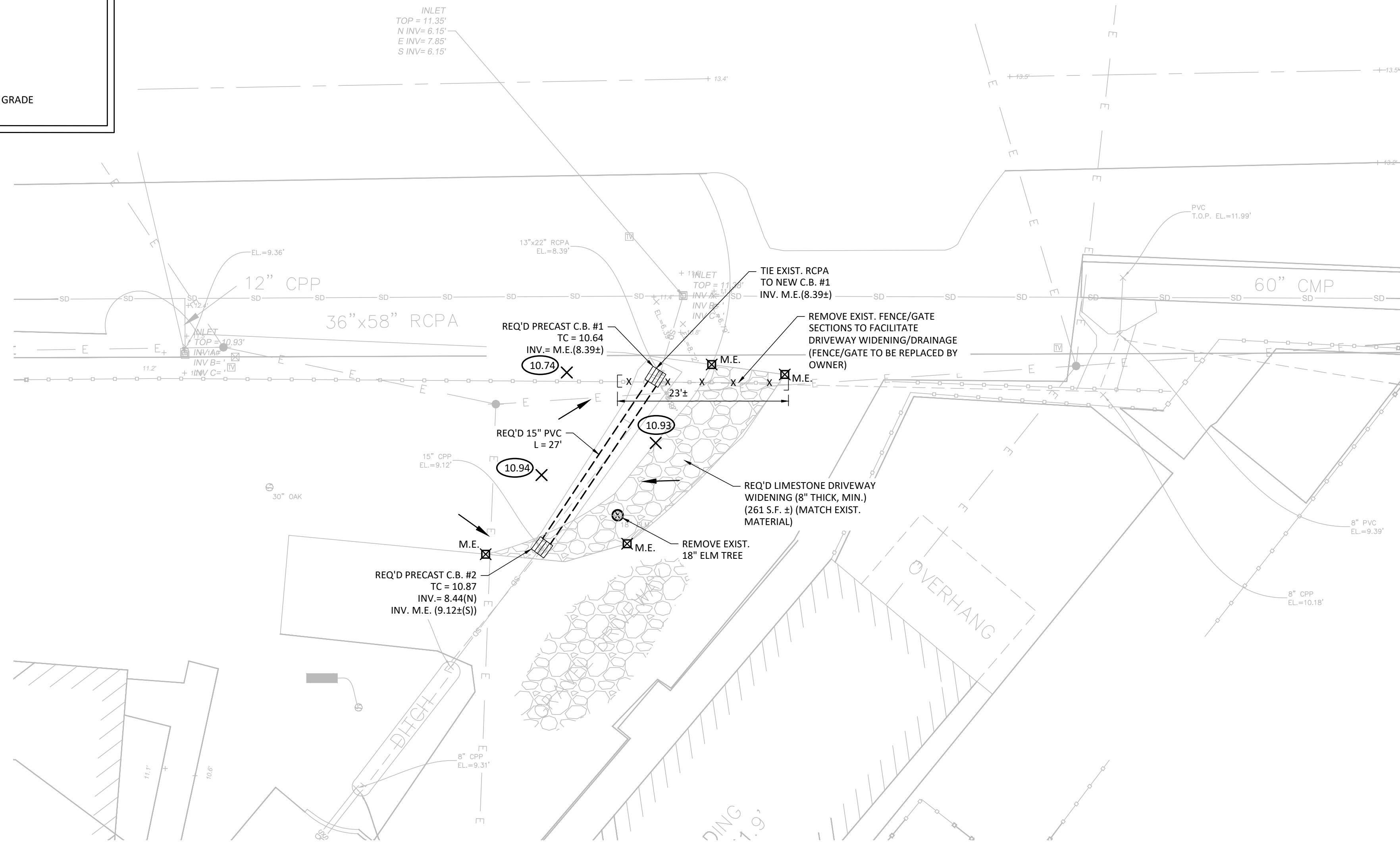
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LEGEND:

- PROPERTY LINE
- ==== REQ'D DRAIN LINE
- ▤ REQ'D CATCH BASIN
- FLOW ARROW
- 10.99 X FINISHED GRADE
- ⊠ M.E. MATCH EXISTING GRADE



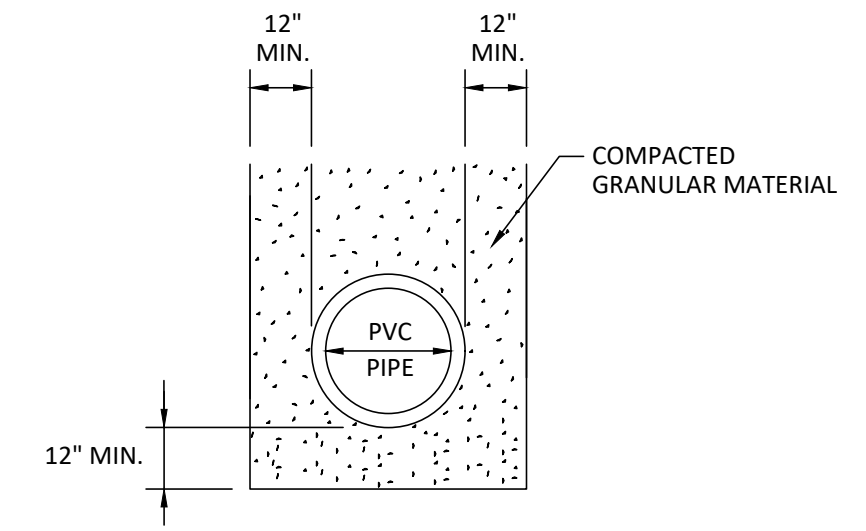
GENERAL NOTES

1. ALL WORK MUST CONFORM TO THE REQUIREMENTS OF THE CITY OF MANDEVILLE AND THE LA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (LATEST EDITION) (LSSRB) AND ALL OTHER AGENCIES AS APPLICABLE.
2. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL CAREFULLY VERIFY SAME AND TAKE THE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES. CONTRACTOR SHALL CONTACT LA ONE CALL TO HAVE ALL EXISTING UTILITIES LOCATED.
3. CONTRACTOR SHALL VERIFY TOP-CASTING AND INVERT ELEVATIONS PRIOR TO ORDERING MANHOLES/CATCH BASINS.
4. DAMAGES TO EXISTING STREETS, DRAINAGE, OTHER UTILITY STRUCTURES, AND RESIDENT PROPERTIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR TO ORIGINAL AND/OR BETTER CONDITIONS TO THE SATISFACTION OF THE OWNERS.
5. PROTECT ALL EXISTING TREES, PLANTING AND LAWNS FROM DAMAGE. ALL STREET SIGNS, FENCES, SHRUBBERY, ETC. RELOCATED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL LOCATION AND IN ORIGINAL CONDITIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. STATE AND PARISH RIGHTS-OF-WAY AND ALL SERVITUDE SHALL BE CLEARED OF TREES AND OBSTRUCTIONS THAT INTERFERE WITH CONSTRUCTION.
6. CONTRACTOR SHALL RE-GRADE ALL AREAS AFFECTED BY CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE. WORK SHALL BE IN A WORKMAN LIKE MANNER AND IN ACCORDANCE WITH A/E REQUIREMENTS. IF CONTRACTOR DETERMINES THAT ANY AREAS AFFECTED BY CONSTRUCTION CANNOT BE RE-GRADED TO DRAIN, CONTRACTOR SHALL DOCUMENT (I.E., TAKE ELEVATIONS, PICTURES, ETC.) EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
7. CONTRACTOR SHALL GIVE THOSE AFFECTED BY CONSTRUCTION 24 HOURS NOTICE PRIOR TO DISRUPTION OF DRIVEWAYS. DRIVEWAYS AND STREETS SHALL NOT REMAIN CLOSED OVERNIGHT.
8. CONTRACTOR SHALL AT ALL TIMES CONDUCT HIS OPERATIONS AS TO ENSURE THE LEAST INCONVENIENCE TO THE GENERAL PUBLIC AND ADJACENT PROPERTY OWNERS.
 - A. CONTRACTOR SHALL PROVIDE ACCESS TO COMMERCIAL/INDUSTRIAL PROPERTIES AT ALL TIMES.
 - B. CONTRACTOR SHALL PROVIDE ACCESS TO RESIDENTIAL PROPERTIES AT ALL TIMES. VEHICULAR ACCESS SHALL BE PROVIDED AS DIRECTED BY ENGINEER. UPON APPROVAL BY ENGINEER, VEHICULAR ACCESS MAY BE LIMITED DURING PAVING OF DRIVEWAYS. CONTRACTOR SHALL CONTACT AND ADVISE ALL AFFECTED PROPERTY OWNERS.
9. PRIOR TO PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL VERIFY EXISTING INVERTS AND TIE-INS. IF DISCREPANCIES ARE FOUND, NOTIFY CIVIL ENGINEER IMMEDIATELY TO DETERMINE ANY REQUIRED ADJUSTMENTS.
10. ALL ELEVATIONS REFER TO OWNER-PROVIDED SURVEY.
11. ALL PLASTIC PIPE (A2000 PVC OR EQUAL) SHALL CONFORM TO SECTION 1006.07 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2006 EDITION.
12. ALL JOINTS FOR PVC PIPE SHALL BE TYPE 3 AND CONFORM TO SECTION 1006.05 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2006 EDITION.
13. ALL PIPE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 701 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2006 EDITION.
14. PIPE SHALL BE INSTALLED BEGINNING AT THE DOWNSTREAM END. THE BELLS SHALL BE FACING UPSTREAM. PIPE SHALL BE LAID IN CONTACT WITH THE FOUNDATION ALONG THE ENTIRE LENGTH OF THE PIPE.
15. PIPE JOINTS SHALL BE WRAPPED WITH A GEOTEXTILE FABRIC A MINIMUM OF 12" ON EACH SIDE OF THE JOINT FOR PIPE 36" AND SMALLER AND 18" ON EACH SIDE OF THE JOINT FOR LARGER PIPE. THE ENDS OF THE FABRIC SHALL BE LAPPED A MINIMUM OF 10" AND FABRIC SHALL BE FIRMLY SECURED TO PIPE.
16. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER OF CATCH BASIN.
17. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SODDED UNLESS RECEIVING NEW LANDSCAPING.

REQUIRED TESTING SERVICES

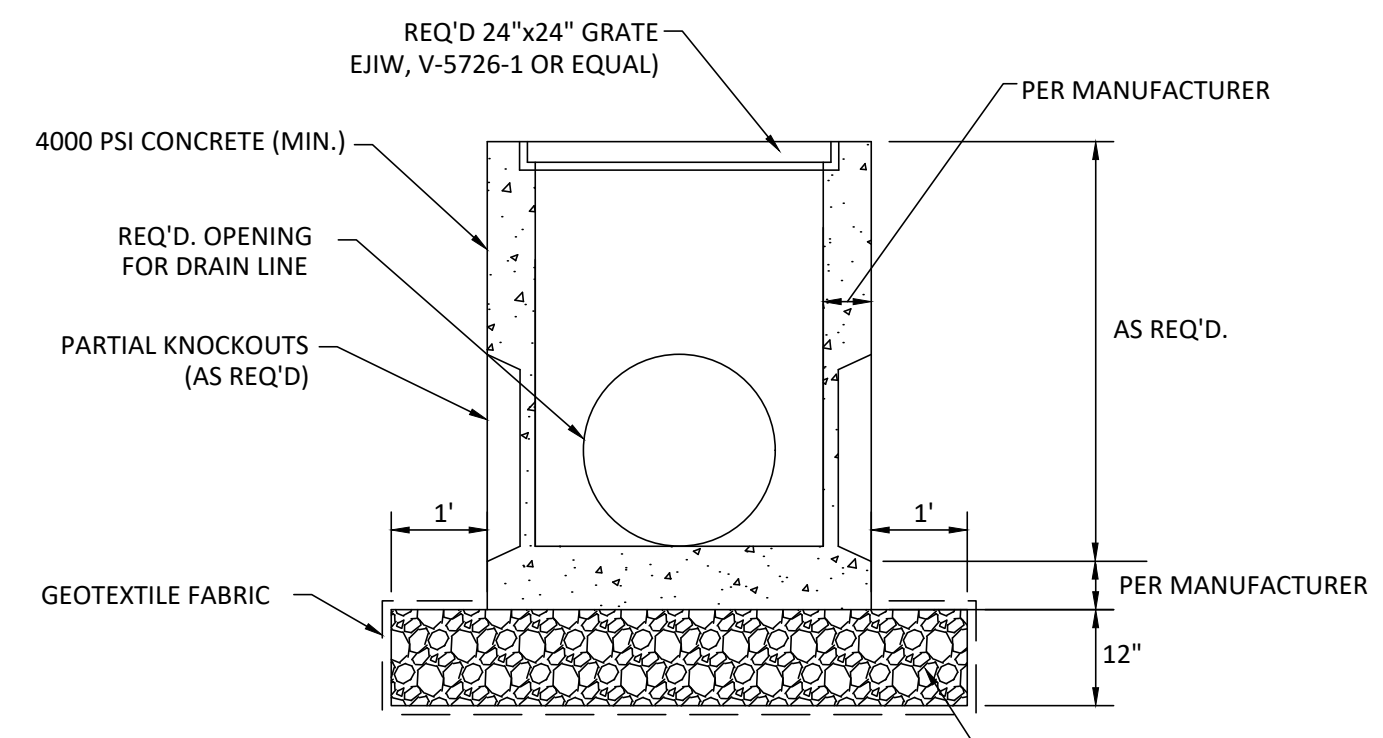
THE FOLLOWING TESTING SERVICES SHALL BE PERFORMED BY AN INDEPENDENT TESTING COMPANY AS APPROVED BY THE ST. TAMMANY PARISH SCHOOL BOARD TO ENSURE CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. ALL FEES ASSOCIATED WITH REQUIRED TESTING SHALL BE PAID FOR DIRECTLY BY THE CONTRACTOR. TESTING COMPANY SHALL BE SELECTED FROM THE LIST OF SCHOOL BOARD APPROVED TESTING COMPANIES. TESTING REPORTS SHALL BE PROVIDED TO THE CONTRACTOR, ENGINEER AND OWNER.

1. BASE COURSE/STRUCTURAL FILL:
 - A. PICK-UP OF SAMPLES OF PROPOSED BASE COURSE MATERIALS, INCLUDING BEDDING AND BACKFILL MATERIAL FOR DRAINAGE PIPE AND STRUCTURES.
 - B. IN-LAB GRADATION AND PROCTOR TESTING OF SAMPLES FOR CONFORMANCE WITH SPECIFICATIONS.
 - C. IN-FIELD NUCLEAR DENSITY TESTING OF FILL (MIN. 4 TESTS PER 200 SQ. YDS. PER LIFT OF SECTION TO BE POURED).
 - D. IN-FIELD NUCLEAR DENSITY TESTING OF DRAINAGE PIPE/STRUCTURE BEDDING AND BACKFILL (MIN. 1 TEST PER 250 LINEAR FEET PER LIFT OF EACH MATERIAL).



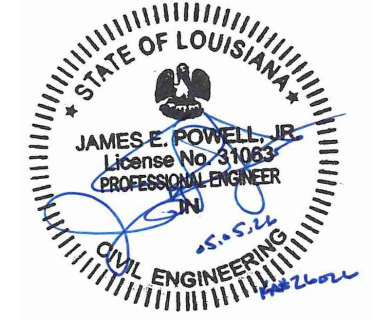
DRAIN LINE BEDDING DETAILS

NOTE:
BEDDING AND BACKFILL MATERIAL SHALL BE INSTALLED IN 6-INCH LIFTS AND COMPACTED TO 95% MAX DRY DENSITY, IN ACCORDANCE WITH ASTM D698.



PRE-CAST CATCH BASIN

- NOTES:**
1. MATERIALS & FEATURES
 - CONCRETE: 4,000 PSI IN 28 DAYS.
 - REINFORCING STEEL: PER ASTM A-615, GRADE 60.
 - REINFORCING TO MEET AASHTO HS 20-44 LOADING.
 - PRE-CAST STRUCTURE TO MEET ASTM C-857-92
 - JOINT SEALANT: RAM-NEK GASKET MATERIAL.
 2. PRE-CAST CATCH BASINS SHALL BE AS MANUFACTURED BY HANSON, GAINEY OR EQUAL. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR EACH STRUCTURE WITH ALL DIMENSIONS, ELEVATIONS, PIPE SIZES/ORIENTATIONS, ETC. SHOWN FOR REVIEW BY THE ENGINEER.



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MANDEVILLE HIGH SCHOOL
SOFTBALL FIELD LIGHTING
1 SKIPPER DR.
MANDEVILLE, LA 70471

DRAWN
NBZ
CHECKED
JEP
REVISED

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