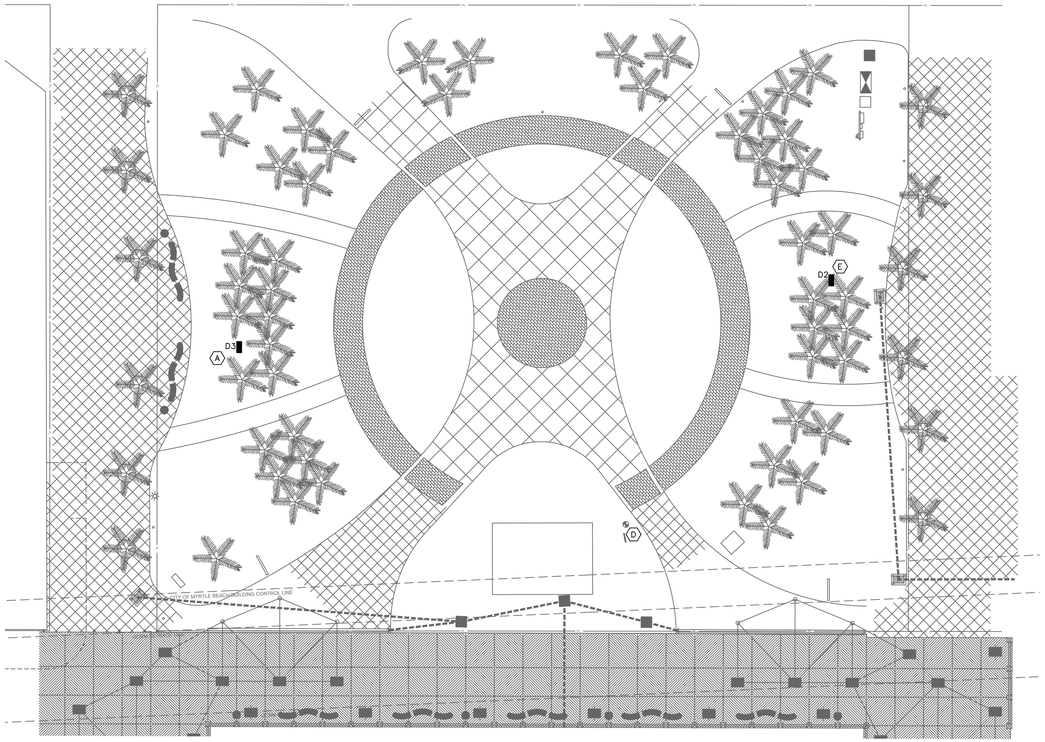


1 E1.0 ELECTRICAL PLAN – EXISTING
SCALE: 1" = 20'–0"

ELECTRICAL KEY NOTES:

(A) EXISTING 100A 120/208V 1 PHASE PANEL. REMOVE ALL THE RECEPTACLES, BOXES AND CONDUITS ON THE PANEL MOUNTING. REUSE THE CIRCUITS AND ADD NEW AS REQUIRED TO GIVE A DEDICATED 120V CIRCUIT TO EACH NEW GFI RECEPTACLE AS SHOWN. RECEPTACLES SHALL BE PT TYPE AS NOTED ON LEGEND.

(B) RELOCATE THE EXISTING 100A 3 POLE DISCONNECT SWITCH TO THIS LOCATION BEHIND THE STAGE. PROVIDE TWO EMPTY 6" PVC CONDUITS FROM THE WIREWAY BELOW THE SWITCH UP THROUGH THE STAGE FLOOR WITH CAPS. SEE ENLARGEMENTS PLAN FOR LOCATIONS OF ALL ELECTRICAL ITEMS FOR STAGE..

(C) PROVIDE AN IN–GROUND JUNCTION BOX IN ORDER TO EXTEND THE 100A FEED FROM THE EXISTING 100A DISCONNECT SWITCH LOCATION TO THE NEW LOCATION BEHIND THE STAGE. UNIT SHALL BE QUALZITE Model # PC1212ZB0217 12"x12"X12" OR EQUAL.

(D) REMOVE THE 50A 2 POLE, AND 6 120V RECEPTACLES AND BOXES, MOUNTING POSTS AND DISCONNECT SWITCH FROM THIS LOCATION. REMOVE AND RETAIN THE 100A 3 POLE STAINLESS STEEL SWITCH FOR USE BEHIND THE NEW STAGE.

(E) REMOVE THE 120V RECEPTACLES AND BOXES FROM BELOW THIS EXISTING 50A PANEL. RETAIN PANEL D2 TO FEED THE EXISTING IRRIGATION SYSTEM AND TO FEED THE NEW RECEPTACLES. PROVIDE ADDITIONAL 1 POLE 20A CIRCUIT BREAKERS AS REQUIRED. RECEPTACLES SHALL BE PT TYPE PER THE LEGEND.

(F) EXISTING JUNCTION BOX TO REMAIN. EXTEND THE CIRCUITS FROM THE RELOCATED STAGE RECEPTACLES VIA THIS JUNCTION BOX TO THE EXISTING FEED PANEL..

(G) FEED THESE NEW RECEPTACLES FROM THE EXISTING PANEL D2, EACH WITH A DEDICATED CIRCUIT BREAKER .RECEPTACLES SHALL BE PT TYPE PER THE LEGEND.

(H) EXISTING 100A 3 PHASE DISCONNECT SWITCH TO REMAIN AS FEED FOR THE RELOCATED STAGE 100A 3 PHASE SERVICE.

(K) EXISTING PANEL D1 TO REMAIN AS FEED TO OTHER SITE PANELS AND FOR THE STAGE RECEPTACLES.

(L) PROVIDE 120V 1 PHASE FEED TO IN–GROUND JUNCTION BOX FOCUS DBS–66–JB OR EQUAL. FIELD LOCATE PER ENGINEER, FOR LIGHTING FIXTURES PER LEGEND. PROVIDE TIME CLOCK ON FEED WITH PHOTOCELL.

(M) FEED THESE NEW RECEPTACLES FROM THE EXISTING PANEL D1, EACH WITH A DEDICATED CIRCUIT BREAKER. RECEPTACLES SHALL BE PT TYPE PER THE LEGEND.

PLAN ELECTRICAL NOTES:

1. ALL CONDUITS SHOWN ARE 1" WITH 2–#10 COPPER AND 1–#10 GROUNDING CONDUCTOR UNLESS NOTED OTHERWISE.
2. ALL CONDUITS ARE SCHEDULE 40 PVC, EXCEPT UNDER TRAFFIC BEARING AREAS. TRAFFIC AREAS SHALL BE SCHEDULE 80 PVC.
3. CONDUIT BENDS ARE NOT TO EXCEED 12° RADIUS, EXCEPT FOR 2' RADIUS BENDS AT BOLLARDS AND PANEL.

ELECTRICAL LEGEND

SCALE 0' 10' 20'

- GFCI DUPLEX RECEPTACLE COMMERCIAL GRADE 20A W/ IN–USE COVER, EMBED INTO CONCRETE
- J — JUNCTION BOX – PER KEY NOTES
- DISCONNECT SWITCH SIZE PER EQUIPMENT REQUIREMENT STAINLESS STEEL
- EXISTING ELECTRICAL PANEL
- D2 — HOME RUN TO PANEL AS NOTED 2 #10 W/ GND. U.N.O. OR AS REQUIRED BY LOAD
- PT — POST MOUNTED GFCI DUPLEX RECEPTACLE COMMERCIAL GRADE 20A FOCUS INDUSTRIES MODEL FA 26 GFIC–BLT–WTX WHITE OR APPROVED EQUAL.
- SINGLE RECEPTACLE COMMERCIAL GRADE 50A W/ IN–USE COVER, EMBED INTO CONCRETE FEED WITH 3 #8 W/GND
- GROUND MOUNTED FIXTURE IN CONCRETE BASE 8" ABOVE GRADE. RAB LIGHTING MODEL HBLED18A 19 WATTS BRONZE FINISH, MOUNT PER DETAIL

GENERAL ELECTRICAL NOTES

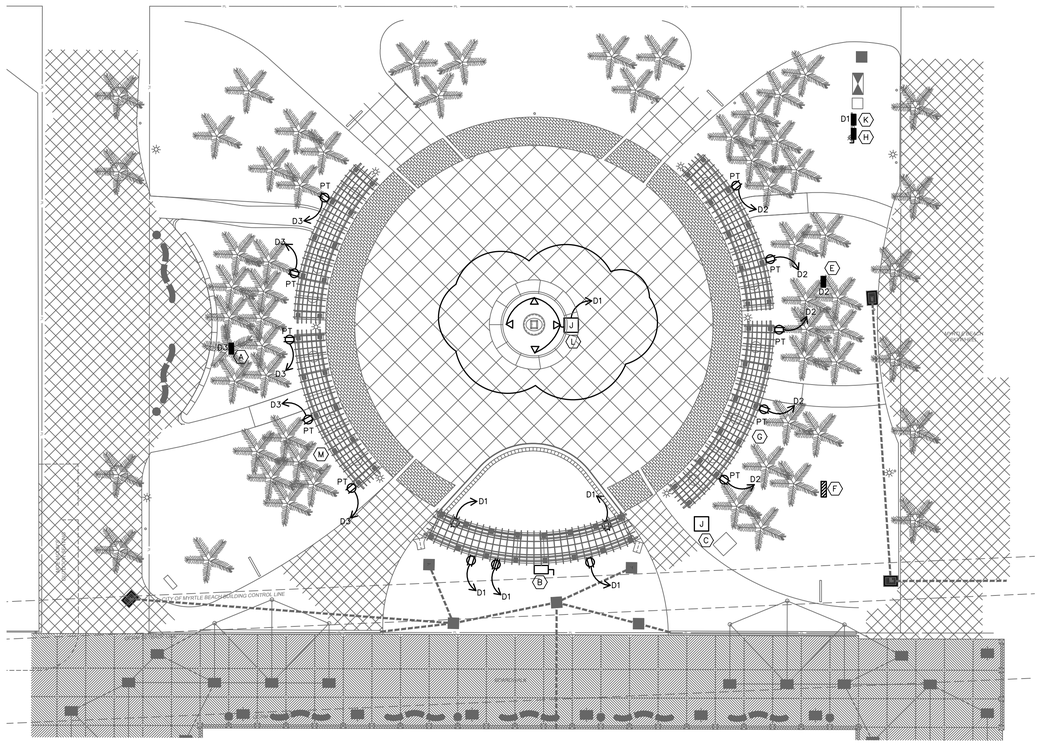
1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL MATERIAL AND EQUIPMENT IN A NEAT AND WORKMANLIKE WAY. INSTALLATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NEC), THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA), AND ANY OTHER LOCAL CODE HAVING JURISDICTION
2. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND NOTED ON THE DRAWINGS. ANY DEVIATION FROM THE DRAWINGS SHALL BE APPROVED BY THE OWNER OR ENGINEER.
3. ALL WORK SHALL BE COORDINATED WITH THE OTHER TRADES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS.
5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL HIS TOOLS, DEBRIS, AND GENERAL CLEANUP FROM HIS WORK.
6. THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF BUILDING MATERIALS REQUIRED FOR THE INSTALLATION HIS WORK.
7. UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS, THE FOLLOWING LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS REQUIRED FOR THE DEVICES SHOWN.

   A. SWITCHES.....48" AFF
   B. RECEPTACLES.....18" AFF
   C. POWER PANELS (TO TOP).....72" AFF
   D. DISCONNECT SWITCHES (TO TOP).....60" AFF

   THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE BOTTOM OF THE BOX, REQUIRING ONLY ONE BLOCK CUT FOR FLUSH MOUNTED DEVICES. MAINTAIN HEIGHT CONSISTENCY BETWEEN SURFACE AND FLUSH MOUNTED DEVICES.
8. EXACT MOUNTING HEIGHTS AND LOCATIONS OF ALL NEW POWER OUTLETS, DATA OUTLETS, AND TELEPHONE OUTLETS SHALL BE CONFIRMED WITH OWNER, FURNITURE SUPPLIER, AND ARCHITECT BEFORE ROUGH–IN.
9. ALL WIRING SHALL BE RUN CONCEALED IN CEILING, WALLS OR FLOOR SLABS.
10. IN GENERAL, CONDUIT RUNS BETWEEN PULL BOXES SHALL NOT EXCEED THE EQUIVALENT OF TWO 90 DEGREE BENDS AND IN NO CASE EXCEED THREE EQUIVALENT 90 DEGREE BENDS. IN LONG STRAIGHT CONDUIT RUNS LOCATE PULL BOXES AT 100 FOOT INTERVALS. INSTALL ELECTRICAL BOXES AS SHOWN ON DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND REGULATORY REQUIREMENTS. USE CAST BOXES IN MANHOLE AND IN OUTSIDE LOCATIONS.
11. ALL CONDUCTORS TO BE SOFT DRAWN COPPER WITH 600 VOLT INSULATION MINIMUM SIZE TO BE #12 AWG. WIRE SIZED #10 AWG AND SMALLER SHALL BE SOLID COPPER WITH TYPE 'THWN' OR 'THHN' INSULATION. CABLE SIZED #8 AND LARGER SHALL BE STRANDED COPPER WITH TYPE 'THWN' OR 'XHHW' INSULATION EXCEPT WHERE NOTED OTHERWISE. ALL EXTERIOR WIRING SHALL BE INSTALLED IN CONDUIT. COMPLETELY SWAB RACEWAYS BEFORE INSTALLING CONDUCTORS. INTERIOR WIRING MAY BE NMC.
12. PROVIDE CONNECTIONS TO ALL EQUIPMENT, MOTORS, ETC. FURNISHED BY OTHERS TO MAKE A COMPLETE, WORKING INSTALLATION.
13. INSTALL WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS. PULL BOXES, OUTLET, AND JUNCTION BOXES, AND AT LOAD CONNECTIONS.

    A. USE BRANCH CIRCUIT OR FEEDER NUMBER TO IDENTIFY PULL BOXES POWER AND LIGHTING CIRCUITS.

    B. USE CONTROL WIRE NUMBER AS INDICATED ON SCHEMATIC AND INTERCONNECTION DIAGRAMS TO IDENTIFY CONTROL WIRING.
14. PROVIDE A TYPEWRITTEN PANEL SCHEDULE FOR EACH PANEL USED IN THIS PROJECT.
15. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY TESTS TO INSURE THAT THE ENTIRE INSTALLATION IS FREE FROM IMPROPER GROUNDS AND FROM SHORTED AND/OR OPEN CIRCUITS. VOLTAGE AND CURRENT TESTS SHALL BE MADE BEFORE ANY CIRCUITS ARE PLACED IN OPERATION.
16. IT IS THE INTENT OF THIS SPECIFICATION FOR THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM WITHOUT ANY EXCEPTIONS. IN THE UNLIKELY CASE WHERE THESE PLANS AND SPECIFICATIONS SHOW OTHERWISE DUE TO ERRORS OR OMISSIONS THE CONTRACTOR SHALL PROVIDE A LIST OF EXCEPTIONS WITH HIS BID. OTHERWISE, EXTRAS DURING CONSTRUCTION WILL NOT BE ALLOWED IN ORDER TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.
17. ALL WIRING MUST BE CONCEALED. DO NOT SURFACE MOUNT ANY CONDUIT.
18. RECEPTACLES SHALL BE TAMPER PROOF WHERE REQUIRED BY NEC SECTION 406.13



2 E1.0 ELECTRICAL PLAN – PROPOSED
SCALE: 1" = 20'–0"

BEST ENGINEERING, LLC
BEST Engineering LLC
236 Muirfield Drive
Pawleys Island, SC 29585
Phone: (843) 235-8280
www.bestengineering.us

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION BEST ENGINEERING NO: C02536

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO: 17129 BRIAN E. KELLY

NO.	DATE	REVISION DESCRIPTION	BY
2	12/29/2017	REVISED PER DRAWING CLARIFICATIONS	
1	12/8/2017	REVISED PER DRAWING CLARIFICATIONS	

ELECTRICAL PLAN

PLYLER PARK
CITY OF MYRTLE BEACH, SOUTH CAROLINA

PREPARED FOR: CITY OF MYRTLE BEACH

SCALE:	1" = 20'
DATE:	NOVEMBER 22, 2017
DESIGNED BY:	BES
DRAWN BY:	BES
APROV. BY:	BES
PROJECT NO.:	16113L

E1.0

FILE NO.:

PLOT SCALE: 1:1
PDF FILE: New DOC.dib