

PANELBOARD NAME: HP1			65,000 RMS SYMMETRICAL A.I.C.			225 AMP MAINS						
PANELBOARD TYPE: MAIN LUGS ONLY			SURFACE MOUNTED, NEMA 1 ENCLOSURE									
PANEL LOCATION: BLEACHERS UTILITY RM.			480Y/277 VOLTS, 3 PHASE, 4 WIRE, 60 Hz									
SUPPLIED FROM: UTILITY												
CKT NO.	TRIP AMPS	NO. POLES	WIRE / GND / COND	LOAD SERVED	LOAD VA	Ø	LOAD VA	LOAD SERVED	WIRE / GND / COND	NO. POLES	TRIP AMPS	CKT NO.
1	70	3	3#6, #10 GND, 3/4" C	TRANSFORMER TR1	15000	A		MUSCO LIGHTING PANEL	4#1, #6 GND, 2" C	3	125	2
					15000	B						8
					15000	C						10
7	20	2	3#10, #10 GND, 1" C	EMERG. LIGHTING INVERTER		A						12
						B						14
						C						16
						A						18
						B						20
						C						22
						A						24
						B						26
						C						28
						A						30
						B						
						C						

TOTAL CONNECTED LOAD = 45.8 kVA X 81% DEMAND FACTOR = 37.1 kVA ESTIMATED DEMAND LOAD
 PHASE BALANCE (KVA) - A: 25.8, B: 27.7, C: 30.4 DESIGN LOAD = 45 AMPERES, TOTAL LOAD WITH EXPANSION = 67 AMPERES

NOTES:
 CONTRACTOR TO PROVIDE AND INSTALL AN OWNER APPROVED NAMEPLATE FOR THIS PANELBOARD.


NEW 277/480V PANELBOARD "HP1" 1
 UTILITY ROOM - STORAGE BUILDING NTS E40

PANELBOARD NAME: LP1			22,000 RMS SYMMETRICAL A.I.C.			150A MAIN CIRCUIT BREAKER						
PANELBOARD TYPE:			SURFACE MOUNTED, NEMA 1 ENCLOSURE			225 AMP MAINS						
PANEL LOCATION: BLEACHER UTILITY RM.			208Y/120 VOLTS, 3 PHASE, 4 WIRE, 60 Hz									
SUPPLIED FROM: HP1												
CKT NO.	TRIP AMPS	NO. POLES	WIRE / GND / COND	LOAD SERVED	LOAD VA	Ø	LOAD VA	LOAD SERVED	WIRE / GND / COND	NO. POLES	TRIP AMPS	CKT NO.
1	60	3	3#6, #10 GND, 1" C	AMPLIFIER SHED PANEL "RP1"	2000	A						2
					2000	B						4
					2000	C						6
7	100	3	4#1, #6 GND, 1 1/2" C	PRESSBOX PANEL "PB1"	3000	A						8
					3000	B						10
					3000	C						12
13	40	2	3#8, #10 GND, 3/4" C	TICKET BOOTH "TB1"	1500	A						14
					1500	B						16
17	40	2	3#8, #10 GND, 3/4" C	SCOREBOARD	3000	A						18
					3000	B						20
					3000	C						22
						A						24
						B						26
						C						28
						A						30
						B						
						C						

TOTAL CONNECTED LOAD = 41.6 kVA X 75% DEMAND FACTOR = 31.4 kVA ESTIMATED DEMAND LOAD
 PHASE BALANCE (KVA) - A: 23.9, B: 19.9, C: 21 DESIGN LOAD = 87 AMPERES, TOTAL LOAD WITH EXPANSION = 131 AMPERES

NOTES:
 CONTRACTOR TO PROVIDE AND INSTALL AN OWNER APPROVED NAMEPLATE FOR THIS PANELBOARD.

NEW 120/208V PANELBOARD "LP1" 2
 UTILITY ROOM - STORAGE BUILDING NTS E40

 ARCHITECTURE ENGINEERING PLANNING 8 RIDGEDALE AVENUE CEDAR KNOLLS, NJ 07927 973.775.7777	ROBERT E. MARSHALL PROFESSIONAL ENGINEER LICENSE NO. NJ 38961	
	EI Associates ARCHITECTS & ENGINEERS, PA	
PROJECT:	PISCATAWAY HIGH SCHOOL BLEACHERS, FIELD LIGHTING & STORAGE FACILITY REPLACEMENT	PROJECT NO: ES8531.01
	NEW JERSEY	DESIGNED BY: REM
		REV. 1 RPS 19 NOV 2019
		DATE
		DRAWN BY: REB
		DWG. NO.
		ISSUE DATE: 19 NOV 19
		ESK40.1

DO NOT SCALE DRAWING
 USE DIMENSIONS ONLY