

PANEL DESIGNATION: LP-A	LOCATION: ADMIN OFFICE ELECTRICAL ROOM					REMARKS:					
	SERVICE:	480Y/277 V	3 PHASE, 4 WIRE								
	MAIN BUS RATING:	400 AMPS									
	MAIN CIRCUIT BREAKER:	300 AMPS									
	SCC RATING (SYM.):	10 k A.I.C.									
	MOUNTING:	SURFACE MOUNTED			NEUTRAL BUS 100% GROUNDING EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO						
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:		
PARTIAL WAREHOUSE UNDERSIDE LIGHTING		20A	1	440			2	20A	SPARE		
2ND MEZZANINE PARK DECK LIGHTING		20A	3		573		4	20A	1ST MEZZANINE CORRIDOR LIGHTING		
1ST MEZZANINE OPERATIONS OFFICES LIGHTING		20A	5			190	6	20A	1ST MEZZANINE DELIVERY ROOM LIGHTING		
1ST MEZZANINE CLOSET AND TOILET LIGHTING		20A	7	209			8	20A	1ST MEZZANINE BREAK ROOM LIGHTING		
2ND MEZZANINE LIGHTING		20A	9		1633		10	20A	2ND MEZZANINE PARK DECK LIGHTING		
ADMIN LEVEL LIGHTING		20A	11			2622	12	20A	ADMIN LEVEL LIGHTING		
SPARE		20A	13	0			14	20A	SPARE		
SPARE		20A	15		0		16	20A	SPARE		
SPARE		20A	17			0	18	20A	SPARE		
SPARE		20A	19	0			20	20A	SPARE		
SPARE		20A	21		483		22	20A	PARKING DECK UNDERSIDE EAST LIGHTING		
PARKING DECK UNDERSIDE EAST LGTHING		20A	23			11379	24	50A	1ST MEZZ. WATER HEATER 'WH(2)'		
1ST MEZZ. WATER HEATER 'WH(1)'		80A	25	28530			26	50A	2ND MEZZ. WATER HEATER 'WH(2)'		
2ND MEZZ. WATER HEATER 'WH(1)'		80A	27		28530		28	50A	ADMIN WATER HEATER 'WH(2)'		
ADMIN WATER HEATER 'WH(1)'		80A	29		28530		30	50A	ADMIN WATER HEATER 'WH(2)'		
ADMIN WATER HEATER 'WH(3)'		40A	31	13850			32	25A	1ST MEZZ. WATER HEATER 'WH(4)'		
2ND MEZZ. WATER HEATER 'WH(3)'		40A	33		13850		34	25A	1ST MEZZ. WATER HEATER 'WH(4)'		
ADMIN WATER HEATER 'WH(3)'		40A	35			8310	36	20A	SPARE		
SPARE		20A	37	0			38	20A	SPARE		
SPARE		20A	39		0		40	20A	SPARE		
SPARE		20A	41			0	42	20A	SPARE		
TOTAL CONNECTED LOAD PER PHASE (KVA)		43.03	45.07	51.03							
TOTAL CONNECTED LOAD		139.13 KVA				167.3 A					
TOTAL DEMAND LOAD		140.74 KVA				169.3 A					

PANEL DESIGNATION: EM-LP-B	LOCATION: EMERGENCY ELECTRICAL ROOM					REMARKS:					
	SERVICE:	480Y/277 V	3 PHASE, 4 WIRE								
		MAIN BUS RATING:	100 AMPS								
		MAIN CIRCUIT BREAKER:	60 AMPS								
		SCC RATING (SYM.):	18 k A.I.C.								
	MOUNTING:	SURFACE MOUNTED			NEUTRAL BUS: 100%		EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO				
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:		
NORTH ASRS EMERGENCY LIGHTING		20A	1	947			2	20A	SPARE		
NORTH ASRS EMERGENCY LIGHTING		20A	3		947		4	20A	SPARE		
NORTH ASRS EMERGENCY LIGHTING		20A	5			920	6	20A	SPARE		
NORTH ASRS EMERGENCY LIGHTING		20A	7	920			8	20A	SPARE		
NORTH ASRS EMERGENCY LIGHTING		20A	9		920		10	20A	SPARE		
SOUTH ASRS EMERGENCY LIGHTING		20A	11			920	12	20A	SPARE		
SPARE		20A	13	0			14	20A	SPARE		
SPARE		20A	15		0		16	20A	SPARE		
SPARE		20A	17			0	18	20A	SPARE		
SPARE		20A	19	0			20	20A	SPARE		
SPARE		20A	21		0		22	20A	SPARE		
SPARE		20A	23			0	24	20A	SPARE		
SPARE		20A	25	0			26	20A	SPARE		
SPARE		20A	27		0		28	20A	SPARE		
SPARE		20A	29			0	30	20A	SPARE		
TOTAL CONNECTED LOAD PER PHASE (KVA)				1.87	1.87	1.84					
TOTAL CONNECTED LOAD				5.57 KVA				6.7 A			
MINIMUM FEEDER SIZE PER ARTICLE 220				6.97 KVA				8.4 A			

PANEL DESIGNATION: EM-LP-C	LOCATION: 10 DUNNINGAN ELECTRICAL ROOM					REMARKS:				
	SERVICE: 480Y/277 V		3 PHASE, 4 WIRE							
	MAIN BUS RATING:		100 AMPS							
	MAIN CIRCUIT BREAKER:		60 AMPS							
	SCC RATING (SYM.):		18 k A.I.C.							
		MOUNTING:		SURFACE MOUNTED			NEUTRAL BUS: 100%		EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO	
							GROUNDING:			
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:	
SOUTH ASRS EMERGENCY LIGHTING		20A	1	920			2	20A	SPARE	
SOUTH ASRS EMERGENCY LIGHTING		20A	3		798		4	20A	SPARE	
SOUTH ASRS EMERGENCY LIGHTING		20A	5			825	6	20A	SPARE	
SOUTH ASRS EMERGENCY LIGHTING		20A	7	920			8	20A	SPARE	
SOUTH ASRS EMERGENCY LIGHTING		20A	9		920		10	20A	SPARE	
SOUTH ASRS EMERGENCY LIGHTING		20A	11			920	12	20A	SPARE	
SPARE		20A	13	0			14	20A	SPARE	
SPARE		20A	15		0		16	20A	SPARE	
SPARE		20A	17			0	18	20A	SPARE	
SPARE		20A	19	0			20	20A	SPARE	
SPARE		20A	21		0		22	20A	SPARE	
SPARE		20A	23			0	24	20A	SPARE	
SPARE		20A	25	0			26	20A	SPARE	
SPARE		20A	27		0		28	20A	SPARE	
SPARE		20A	29			0	30	20A	SPARE	
TOTAL CONNECTED LOAD PER PHASE (KVA)		1.84	1.72	1.75						
TOTAL CONNECTED LOAD		5.30 KVA					6.4 A			
MINIMUM FEEDER SIZE PER ARTICLE 220		6.63 KVA					8.0 A			

NOTES:

1. REFER TO CONTRACT DRAWING **E-001** FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
2. REFER TO CONTRACT DRAWINGS **E-701**, **E-702**, AND **E-703** FOR ELECTRICAL ONE-LINE DIAGRAMS.
3. ALL 277/480V AND 120/208V FEEDERS AND BRANCH CIRCUIT CONDUCTORS SHALL BE ALUMINUM. CONTRACTOR SHALL PERFORM VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS AND APPROPRIATELY SIZE CONDUCTORS AND ASSOCIATED CONDUITS BASED ON THE 2017 NATIONAL ELECTRIC CODE.
4. ALUMINUM CONDUCTORS SHALL BE UL LISTED AND COMPLY WITH ASTM B800, ASTM B801, UL 486C, AND ANSI H35.2-2017. INSTALLATION OF ALUMINUM CONDUCTORS SHALL BE INSTALLED IN COMPLIANCE WITH ANSI/NECA/AA 104-2012.
5. ALL SPLICES, TERMINATIONS, TAPS, AND CONDUCTOR CONNECTORS SHALL BE COMPATIBLE WITH CONDUCTOR MATERIAL. USE OXIDE INHIBITOR IN EACH SPLICE, TERMINATION, AND TAP FOR ALUMINUM CONDUCTORS.

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MANHATTAN BEER DISTRIBUTORS
20 DUNNIGAN DRIVE
SUFFERN, NEW YORK

KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022
	ISSUED FOR CONSTRUCTION	08/30/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	N.T.S.

DRAWING TITLE :
**ELECTRICAL PANEL
SCHEDULES SHEET 6 OF 6**

DWG NUMBER :

E-606