## **GENERAL NOTES: (APPLIES TO ALL "ELECTRICAL" SHEETS)** A. THE ELECTRICAL CONTRACTOR FOR THIS WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THIS WORK AND THE WORK OF ALL THE SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL OF HIS RELATED SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS. CIRCUITING INDICATED ON PLAN IS PARTIALLY DIAGRAMMATIC FOR CLARITY. CIRCUITING SHALL BE "THRU-WIRING"WHERE AND WHENEVER POSSIBLE. FIELD VERIFY EXACT LOCATION AND ELECTRICAL AND SCCR (SHORT CIRCUIT CURRENT RATING) REQUIREMENTS OF ALL HVAC С. EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN AND ORDERING RELATED ELECTRICAL EQUIPMENT. D. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED FOR COMPLETE AND FULLY OPERABLE ELECTRICAL SYSTEM. COORDINATE ALL ROOF PENETRATIONS WITH ROOFING CONTRACTOR. ALL ROOF PENETRATIONS/PATCHING SHALL BE DONE E. BY THE ROOFING CONTRACTOR (AT THE ELECTRICAL CONTRACTORS EXPENSE) SO AS TO KEEP THE ROOF UNDER WARRANTY. ALL ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH THE CODES. AND OWNERS RULES AND REGULATIONS. WHERE NECESSARY, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO CORE DRILL ALL HOLES THAT ARE REQUIRED TO FACILITATE THE INSTALLATION OF THE ELECTRICAL, TECHNOLOGY, FIRE ALARM, ETC AND SHALL FIRE STOP THE OPENINGS AFTER ALL CABLES HAVE BEEN INSTALLED THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY CONSTRUCTION POWER AS REQUIRED FOR THE NEEDS OF ALL RELATED TRADES. (THE ELECTRICAL CONTRACTOR SHALL REMOVE SAME UPON COMPLETION OF THE PROJECT). ELECTRICAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, PLUMBING & HVAC PLANS PRIOR TO ROUGH-IN (TO AVOID ANY CONFLICTS OF ROUTING OR PLACEMENT). DO NOT INSTALL WALL HEATERS CLOSER THAT 8" FROM FLOOR OR ADJACENT WALL SURFACE, BEHIND DOOR, UPSIDE DOWN OR SIDE UP, IN FLOOR, CEILING OR CLOSET. HVAC EQUIPMENT SHALL NOT BE MORE THAN 25' FROM A RECEPTACLE. THE HVAC RECEPTACLES SHALL ALSO BE LOCATED AT Κ. THE SAME LEVEL AS THE EQUIPMENT AND SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE HVAC EQUIPMENT DISCONNECTING. ALL 120V, 1¢, 20 AMP BRANCH CIRCUITS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER (AFCI), COMBINATION-TYPE, PER NEC CODE 210.12. PROVIDE FIRE CAULK AT ALL PENETRATIONS THROUGH FIRE RATED WALLS, ETC. IN ACCORDANCE WITH OBC #2703.1. SEE Μ. ARCHITECTURAL DRAWINGS FOR IDENTIFICATION OF RATED WALLS. N. SEE MECHANICAL DRAWINGS FOR LOCATION OF HVAC, FIRE PROTECTION AND PLUMBING EQUIPMENT. O. TOGGLE TYPE MANUAL DISCONNECT SWITCHES SIMILAR TO COOPER "AH" SERIES SWITCHES MAY BE USED IN PLACE OF STANDARD NON-FUSED SAFETY SWITCHES WHERE APPLICABLE AMP AND VOLTAGE RATED DEVICES ARE AVAILABLE. CONFLICTS BETWEEN THE ELECTRICAL INSTALLATION AND ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE Ρ. PROTECTION AND EQUIPMENT INSTALLATION SHALL BE AVOIDED, FIELD COORDINATE AS REQUIRED. Q. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ROOM AND AREA FINISHES, CEILING PLANS, DOOR SWINGS, FIRE-RELATED PARTITIONS, BUILT-IN DETAILS, AND EXACT DEVICE LAYOUTS. R. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECT SWITCHES TO MEET THE NATIONAL ELECTRIC CODE AND AS REQUIRED BY THE EQUIPMENT MANUFACTURERS. S. ELECTRICAL CONTRACTOR TO PROVIDE BRANCH CIRCUIT WIRING AS REQUIRED FOR ALL EQUIPMENT FURNISHED BY OTHERS, FIELD COORDINATE AS REQUIRED. T. ALL MOTOR STARTERS FOR MECHANICAL ITEMS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR FURNISHING THE EQUIPMENT (UNLESS OTHERWISE NOTED ON THE DRAWINGS) AND SHALL BE INSTALLED, WIRED AND CONNECTED BY ELECTRICAL CONTRACTOR. ALL EXTERIOR ELECTRICAL EQUIPMENT AND DEVICES SHALL BE WEATHERPROOF AND RAIN-TIGHT. REFER TO RELATED DRAWINGS FOR DESIGNATION AND LISTING OF FIRE RATED ASSEMBLIES. COORDINATE INSTALLATIONS WITH FIRE RESISTANCE OF MATERIALS AND CONSTRUCTION. W. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, STATE, FEDERAL, COUNTY AND LOCAL SUPPLEMENTS OR ADDITIONS. IN INSTANCES WHERE THE DRAWINGS AND THE CODES ARE IN CONFLICT, THE WORK SHALL BE INSTALLED AS PER REQUIREMENTS OF THE CODES. X. ALL CUTTING AND PATCHING ASSOCIATED WITH ELECTRICAL WORK SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTORS BID.

Y. ALL EXISTING DUCT SMOKE DETECTORS SHALL REMAIN UNCHANGED. DISCONNECT AND RECONNECT AS NECESSARY. Z. ALL NEW CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH THEIR LISTING AND NOT VOID THE LISTING FOR THE EXISTING GEAR/EQUIPMENT AS DESCRIBED IN NEC 2017 ARTICLES 110.3 AND 110.4.

## BRANCH CIRCUIT WIRE SIZE CHART:

- A. FOR 20 AMP, 120 VOLT CIRCUITS UP TO 100 FEET, USE #12 CONDUCTORS.
- B. FOR 20 AMP, 120 VOLT CIRCUITS UP TO 200 FEET, USE #10 CONDUCTORS.
- C. FOR 20 AMP, 120 VOLT CIRCUITS UP TO 400 FEET, USE #8 CONDUCTORS. D. FOR 20 AMP, 120 VOLT CIRCUITS UP TO 600 FEET, USE #6 CONDUCTORS.
- E. FOR 20 AMP, 120 VOLT CIRCUITS UP TO 800 FEET, USE #4 CONDUCTORS.
- F. FOR 20 AMP, 120 VOLT CIRCUITS UP TO 1000 FEET, USE #2 CONDUCTORS..
- G. INCREASE GROUND CONDUCTOR AND CONDUIT SIZE PER N.E.C.

MEASURE AND CONFIRM AMPACITY IN FULL LOAD OF ALL INVOLVED ELECTRICAL PANELS. MEASURE AND CONFIRM VOLTAGE DROP IN FULL LOAD OF ALL NEW AND INVOLVED FEEDERS. MEASURE AND CONFIRM VOLTAGE DROP IN THE LONGEST BRANCHES PER PANEL. IF AMPACITY OR VOLTAGE DROP IN FULL LOAD CONDITIONS EXCEEDS DESIGNED FIGURES INFORM PM AND/OR ENGINEERING.

FIXTURE TAG	MANUFACTURER(S)	CATALOG NUMBER	LAMPING	REMARKS
A1	T1 LIGHTING	T1-IHBLED/4/B/321-50-WG	LEDS FURNISHED WITH FIXTURE	RINK AREA, CEILING SUSPENDED, 321W
CL1	MAXLITE	LSV 4U25 50	LEDS FURNISHED WITH FIXTURE	CENTRAL LOCKER ROOM AREA, CEILING MOUNTED, 25W
CL1EM	MAXLITE	LSV 4U25 50 EM		CENTRAL LOCKER ROOM AREA, CEILING MOUNTED, 25W EM FIXTURE WITH 90
CL2	LITHONIA (OR APPROVED EQUAL)	BLWP8 40L SDSM EZ1 LP850	LEDS FURNISHED WITH FIXTURE	CEILING MOUNTED 8'-0" CONCESSION AREA FIXTURE, 30W
R1	EATON (OR APPROVED EQUAL)	GRV 24 2 FA LD4 32 35 P187 UNV ED1D1	LEDS FURNISHED WITH FIXTURE	VANDAL RESISTANT RECESSED LED 2X2 TROFFER, 29.9W
R1EM	EATON (OR APPROVED EQUAL)	GRV 24 2 FA LD4 32 35 P187 UNV ED1D1 EL14W	LEDS FURNISHED WITH FIXTURE	VANDAL RESISTANT RECESSED LED 2X2 TROFFERWITH 90 MINUTES OF EMERGENCY BATTERY BACKUP, 29.9W
R2	LITHONIA (OR APPROVED EQUAL)	LDN6 35/30 L06 MVOLT GZ10	LEDS FURNISHED WITH FIXTURE	6" DIAMETER RECESSED LED DOWNLIGHT, 34.8W
R2EM	LITHONIA (OR APPROVED EQUAL)	LDN6 35/30 L06 MVOLT GZ10 ELSD	LEDS FURNISHED WITH FIXTURE	6" DIAMETER RECESSED LES DOWNLIGHT, 34.8W
R3	LITHONIA (OR APPROVED EQUAL)	2WRTL G L24 3000LM AFL MVOLT GZ1 35K 80 CRI	LEDS FURNISHED WITH FIXTURE	WET LOCATION RATED RECESSED LED 2X2 DIAMETER RECESSED LED DOWNLIGHT, 26.6W
R3EM	LITHONIA (OR APPROVED EQUAL)	2WRTL G L24 3000LM AFL MVOLT GZ1 35K 80 CRI PS1050	LEDS FURNISHED WITH FIXTURE	WET LOCATION RATED RECESSED LED 2X2 DIAMETER RECESSED LED DOWNLIGHT WITH 90 MINUTES OF EM BACKUP, 26.6W
R4	EATON (OR APPROVED EQUAL)	GRV 24 4 FA LD4 48 35 P187 UNV ED1D1	LEDS FURNISHED WITH FIXTURE	VANDAL RESISTANT RECESSED LED 2X4 TROFFER, 37.4W
R4EM	EATON (OR APPROVED EQUAL)	GRV 24 4 FA LD4 48 35 P187 UNV ED1D1 EL14W	LEDS FURNISHED WITH FIXTURE	VANDAL RESISTANT RECESSED LED 2X4 TROFFERWITH 90 MINUTES OF EMERGENCY BATTERY BACKUP, 37.4W
P1	SPECTRUM LIGHTING	C1210GV 55L 50K TCY SO PM MW	LEDS FURNISHED WITH FIXTURE	OWNER PROVIDED PENDANT MOUNTED CYLINDER, 39W
CH1	METALUX (OR APPROVED EQUAL)	4WNLED LD4 32SL F UNV L835 CD1 U	LEDS FURNISHED WITH FIXTURE	CEILING MOUNTED 4'-0" LED FIXTURE IN LOBBY, 28.8W
CH1EM	METALUX (OR APPROVED EQUAL)	4WNLED LD4 32SL F UNV L835 CD1 U EL14W	LEDS FURNISHED WITH FIXTURE	CEILING MOUNTED 4'-0" LED FIXTURE IN LOBBY WITH 90 MINUTES OF EMERGENCY BATTERY BACKUP, 28.8W
X1	LITHONIA (OR APPROVED EQUAL)	LHQM LED R HO	LEDS FURNISHED WITH FIXTURE	LED EXIT SIGN. SEE LIGHTING PLANS FOR CHEVRON CONFIGURATIONS.

## 3 4 60 GRD. BUS: \_\_\_\_ TRIP AMPS 20/2 30/3 20/1 EX 40/3 \_\_\_\_\_

SERVICE:

277/480

PANEL NO.

EXISTING PANEL "LP1"

MAINS:

LOC: IN MDP ROOM

SERVICE	:
120/2	208
3	
4	
60	
GRD. B	
0110.0	
TRIP	
AMPS	
20/1	EXIS
20/1	NEW
20/1	EXISTIN
20/1	EXIS.
20/1	EXIST
20/1	EXIS
20/1	EXISTI
20/1	NE
20/1	NEW
20/1	EXISTI
60/3	
20/1	E
20/1	EXISTIN
20/1	
20/1	EXIS
30/1	E
20/1	

20/2 \_\_\_\_\_



EXI	2
NO.	
1	
2	
3	
4	
$\sim$	

			NUU	WI WIAINS.							CLUSET MAINS.	
— V. PH.				225 225A	AMP. M.L.O.	3					225 225A	AMP. M.L.O.
W.						4	W.					
Hz. Yes						GRD. B						
					TRIP	TRIP						TRIP
					AMPS	AMPS	NEW LGT 421, 418, 425, 426	1			NEW LGT 408, 410, 411, 412	AMPS
NEW EXIT/WALL BAK NEW PAD #1 HIGH BAY LGT	3 -	-+	2	NEW PAD 2 HIGH BAY LGT NEW PAD 2 HIGH BAY LGT	20/1 20/1	<u>20/1</u> 20/1	EXISTING LGT 420	3	$\left  \begin{array}{c} + \\ - \end{array} \right $	+ 4		20/1 9 20/1
NEW PAD #1 HIGH BAY LGT NEW PAD #1 HIGH BAY LGT	5+	-   _	6	NEW PAD 2 HIGH BAY LGT NEW PAD 2 HIGH BAY LGT	20/1	20/1 20/1	EXISTING LGT 414, 415, 418 NEW LGT 212, 213, 214, 215	5	$\left  \begin{array}{c} + \\ - \end{array} \right $	- 6 + 8		20/1
IEW PAD #1 HIGH BAY LGT	9+		10	NEW PAD 2 HIGH BAY LGT	20/1	20/1	EXISTING CONCESSION LGTS	9	+	- 10		20/1
NEW PAD #1 HIGH BAY LGT	11 <sup>-</sup> 13 +	+	12 14	NEW PAD 2 HIGH BAY LGT	20/1	20/1	EXISTING ELEC RM LGT EXISTING SPACE	11	- 1	+ 1		20/1
IEW PAD #1 HIGH BAY LGT	15 -	-+	16	NEW BUILDING LIGHTS	20/1			15		+ 1		20/1
RM #427, 602, 429, 504 NEW SITE PARKING	17 +		18	EXISTING BOILER RM LTS	20/1	20/2		17				20/1
XISTING LIGHTS BANQUET	19 21 +	-   -	20 22	NEW BUILDING LTS	20/1 20/1	20/2	5 SPARE	21		+ 20		20/1
NEW EBB SPRINKLER RM	23	+	24	EXISTING N.L. HIGH BAY LG	Г 20/1	20/2		23		+ 2	-	30/3
NEW HOT TUBE	25 + 27 -	-+	26 28	NEW P-1	30/3	30/3	NEW AH-4,5,6	25 27	$\left  \begin{array}{c} + \\ - \end{array} \right $	- 2 + 2		
	29 +		30					29	+	- 3	_	20/3
NEW P-3,4	31 - 33 +	-   -	32 34	NEW P-2	30/3	20/3	NEW EF-10	31 33	$\left  + \right $	+ 3		
ISTING SPARE IN BANQUET	35 -	+	36					35		+ 3	-	30/3
EXISTING OLYMPIA ELEC.	37 + 39 -	-+	38 40	EXISTING SITE LGT REAR	30/3	20/3	NEW EF-5	37 39	- 1	- 30		
	41 +	-   -	42			5	NEW EWH-3	41	]+	- 42	2 SPARE 5	20/2
NOTE: PANEL "LP1" DI	3) = 104.	) LOA .4 A x	D IS 8 1.25 =	6,838 WATTS. = 130.5 AMPS TOTAL LOAD			NOTE: PANEL "LP (83,784W ÷ (480V) (NOTE: PANEL 1ST	x √3) = 1	ND-1 00.8/	0401 A x 1.2	5 = 126 MPS TOTAL LOAD	
PANEL NO	E	XIST	ING P/	ANEL "PP2"			PANEL NO		EXI	STING	PANEL "PP3"	
LOC: IN	ELECI	TRIC	AL C	CLOSET MAINS:		SERVICE	: LOC: IN	I ELE(	CTR	ICAL	CLOSET MAINS:	
٧.				225	AMP.	120/2	208 V.				225	AMP.
PH.				225A	M.L.O.	3					225A	M.C.B.
W. Hz.						4	W. Hz.					
YES						GRD. B	US: <u>Yes</u>					
					TRIP	TRIP						TRIP
XISTING RECEPTACLE SIGN	1 -	+   -	2	EXISTING CHILL LOCKER RM E	AMPS EWC 20/1	AMPS 20/1	EXISTING RECS TRACER	1	+	- 2	NEW EF-1; EF-2	AMPS 20/1
IEW RECS RM 421, 425, 426	3 -	-+	4	EXISTING DRYER #124	20/1	20/1	NEW LGTS #201	3	1-	+ 4		20/1
TING RECS WASHER - RM. #424 XISTING RECS BATH 420 GFI	5 -	+   -   +	6	EXISTING DRYER #124 EXISTING RECS RM #310	20/1	20/1	NEW LGTS #201 NEW LGTS #201	5	$ ^+ $	- 6 + 8		20/1
ISTING RECS BATH 420 GFI	9 -	+   -	10	EXISTING RECS BATH #410		20/1	EXISTING LOCK TV	9	+	- 10		
XISTING WOMEN BATH 415	11	-+		NEW RECS BATH #409	20/1	20/1	EXISTING JBOX CLG-SOUND	11		+ 12		20/1
TING RECS TELEPHONE #502 NEW RECS RM #105, 106	13 -	+++++++++++++++++++++++++++++++++++++++	14	NEW RECS 402, 404, 405 EXISTING RECS ENTRANCI	20/1 E 20/1	20/1	EXISTING JBOX CLG-SOUND EXISTING JBOX FIRE ALARM SYS	13 <b>T.</b> 15	- 1	-14 + 16		20/1
EW RECS RM #103, 104, 107	17 -	+   -	18	EXISTING RECS ENTRANCI		20/1	EXISTING JBOX GOAL LGT	17	]+	- 18		20/1
STING RECS COPIER RM #111	19 -	- + + -	20	EXISTING RECS VIDEO GAM		20/1	EXISTING RECS NORTH WALL EXISTING DISCO LIGHTS	19 21	$ _{+}^{-} $	+ 20 - 22		20/1
NEW PANEL "PP2A"	23	-+	24	EXISTING RECS VIDEO GAM		20/1	EXISTING MSG. SIGNS	23		+ 24		20/1
EXISTING RECS EWC	25 -	+   - -   +	26 28	EXISTING RECS VIDEO GAM		20/1 20/1	EXISTING EQUIPMENT EXISTING CONCESSION SIGNAG	25 F 27	$ ^+ $	- 20		20/1
STING RECS RM # 109, 212, 213	29 -	+   -	30	EXISTING RECS 215	20/1			29		- 30	NEW RH-1 (TYP OF 3)	20/1
NEW RECS FAX	31 <sup>-</sup> 33 -	+	32 34	EXIST. RECS 205, 206, 207, LOB EXISTING RECS EWC	BY TV 20/1 20/1	100/3	EXISTING CONCESSION SUB PAN	EL 31		+ 32		20/1
EXISTING VERIPHONE	35	-+	$\vdash$	NEW RECS 303, 304, 305, 307, 3		20/1	EXISTING DISCO LIGHTS	35	$\left  - \right $	+ 30		20/1
NEW RECS	37 -	+   -	38	EXISTING LGTS #422, 423	20/1	20/1	EXISTING PROSHOP TRAC LGTS		+	- 38		20/1
EXISTING SIGN	39 <sup>-</sup> 41 -	+   -	40 42	EXISTING RECS 411, 412, 414, EXISTING EQUIPMENT	418         20/1           20/1	20/1	EXISTING PROSHOP TRAC LGTS EXISTING PROSHOP TRAC LGTS		+	+ 40 - 42	2 EXISTING PROSHOP CASH 2 EXIST. PROSHOP SHOW WIND. REC	20/1 S 20/1
NOTE: PANEL "PP2" E 30,496W ÷ (208V x √3 (NOTE: PANEL IS PRO	3) = 84.0	D LOA 6A x <sup>2</sup>	AD IS 3 1.25 =	30,496 WATTS. 105.8 AMPS TOTAL LOAD			NOTE: PANEL "PP: 46,350W ÷ (208V ÷ (NOTE: PANEL IS F	8" DEMA < √3) = 1	ND L 28.6/	.OAD   A x 1.2	5 = 160.8 AMPS TOTAL LOAD	
PANEL NO		NE	W PAN	NEL "LP3"			PANEL NO.		NE	EW PA	NEL "LP4"	
LOC:	: IN 1	MDP	RO	DM MAINS:		SERVICE:	LOC	: IN	MDF	P RO	OM MAINS:	
V.				225	AMP.	277/48	<u>30</u> V.				225	AMP.
PH. w.				225		34	PH. W.				225A 14k	_ M.L.O. A.I.C.
Hz.					<u> </u>	60	Hz.					
YES						GRD. BL	S: <u>Yes</u>					
					TRIP	TRIP						TRIP
	1	+1-	2		AMPS	AMPS		1	+ -	-16	NORTH RINK LTG CONTACT. E.	20/1
DH-1	3	-+	- 4	AC-1 CONNECTION 1	35/3	80/3	SPARE	3	-	+	NORTH RINK LTG CONTACT. W.	20/1
	5	+   -			$\sim$			5	+		SOUTH RINK LTG CONTACT. E. SOUTH RINK LTG CONTACT. W.	20/1
DH-2	9	+   -	- 10	EF-11	20/3	80/3	SPARE	9	+	-10	SPARE	20/1
05455	11	_ +	12				00405	11	_ - 	+ 12		20/1
SPARE SPARE	13 15	+++++++++++++++++++++++++++++++++++++++	- <b>1</b> 4	EF-12	20/3	<u>20/1</u> 20/1	SPARE SPARE	13 15	+	- 14 + 16		20/1 20/1
SPARE	17	+   -	18			5 20/1	SPARE	17	+	- 18	SPARE	20/1
SPARE SPARE	19 21	+   -	- 20	SPARE SPARE	20/1	20/1 20/1	SPARE SPARE	19 21	+	+ 20 - 22	SPARE SPARE	20/1 20/1
SPARE	23	-+	- 24	SPARE	20/1	20/1	SPARE	23	- -	+ 24	SPARE	20/1
SPARE SPARE	25 27	+ -	26 28	SPARE SPARE	20/1 20/1	<u>20/1</u> 20/1	SPARE SPARE	25 27	+	- 26 + 28		20/1 20/1
SPARE	29	+	- 30	SPARE	20/1	20/1	SPARE	29	+	- 30	SPARE	20/1
SPARE	31	- + +	- 32	SPARE	20/1	20/1	SPARE SPARE	31 33	_ -  -	+ 32 - 34		20/1
SPARE SPARE	33 35	<sup>+</sup>  +	- 34 - 36	SPARE SPARE	20/1 20/1	20/1 20/1	SPARE	33	-   .	+ 36		20/1 20/1
SPARE	37	+ -	- 38	SPARE	20/1	20/1	SPARE	37	+	- 38	SPARE	20/1
SPARE SPARE	39 41	-+++++++++++++++++++++++++++++++++++++	- 40 - 42	SPARE SPARE	20/1	20/1 20/1	SPARE SPARE	39 41	+	+ 40 - 42		20/1 20/1
		· 1	LTT			2011			1			
NOTE PANEL "LR3" G (25,135W: (480V x (NOTE: PANEL 1S PR)	<b>DEMAN</b> √3) = 15	<b>D-LO</b> 50.6A	x 1.25	125,135 WATTS. 5 = 188,2 AMPS TOTAL LOAD				<b>ÐEMAN</b> √3) = 0.9	<b>Б</b> 96А х	(1.25 =	00,800 VATTS. 1.2 AMPS TOTAL LOAD	

PANEL NO. EXISTING PANEL "LP2"

LOC: IN ELECTRICAL CLOSET

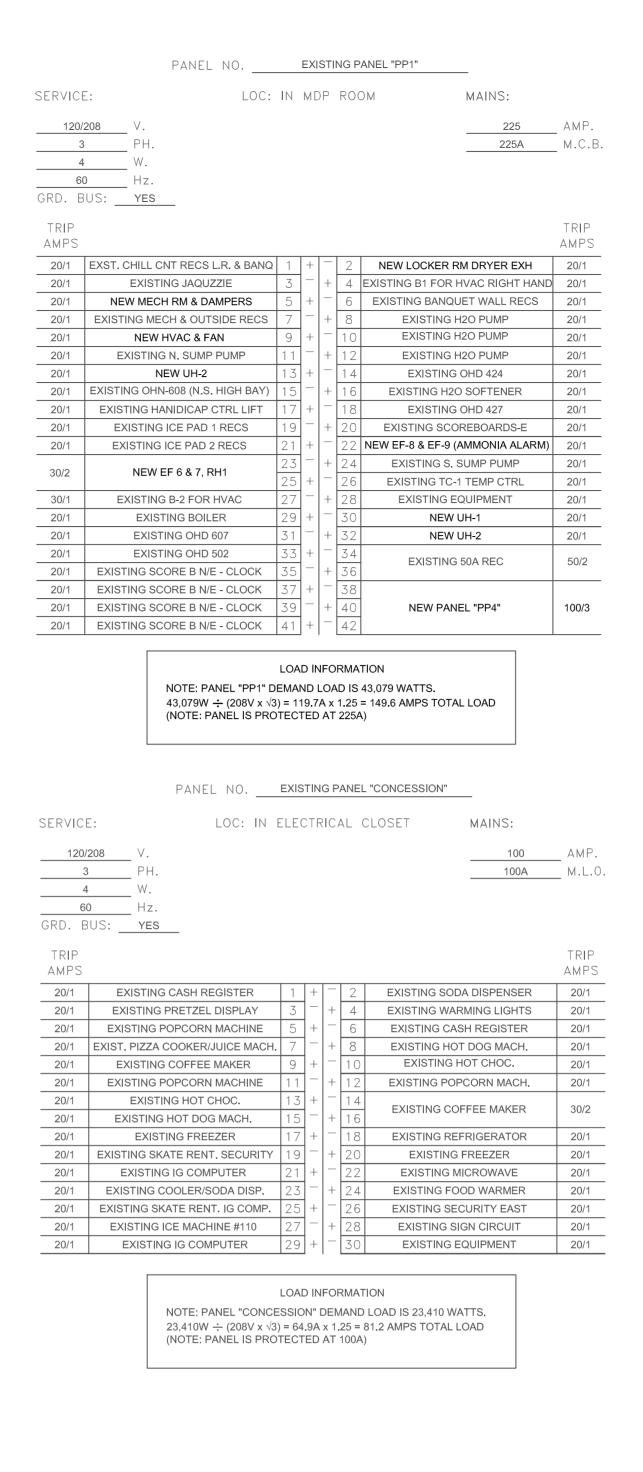
MAINS:

SERVICE:

## EXISTING MAIN DISTRIBUTION PANELBOARD SCHEDULE (MDP) (SERVICE ENTRANCE RATED)

	VOLTAGE A PHASE		FEEDER SIZE	ITEM FED	
NO.	VOLTAGE A PHASE	BREAKER	WIRE	COND	
1	277/480V, 3Ø, 4W		(4) PARALLEL SETS OF (4) 500 MCM (cu)	4 @ 4"	EXISTING 1,600A MAIN BREAKER
2	277/480V, 3Ø, 4W	NEW 225	(4) #250 kcmil (cu) AND (1) #4 GROUND	3"	NEW PANEL "LP3"
3	277/480V, 3Ø, 4W	225A	(4) #250 kcmil (cu) AND (1) #4 GROUND	3"	EXISTING PANEL "LP2"
4	277/480V, 3Ø, 4W	NEW 225	(4) #250 kcmil (cu) AND (1) #4 GROUND	3"	NEW PANEL "LP4"
5	277/480V, 3Ø, 4W	300A	(2) PARALLEL SETS OF (3) #1/0 (cu) AND (1) #6 GROUND	2 @ 2 1/2"	EXISTING C-1 COMPRESSOR RM
6	277/480V, 3Ø, 4W	100A	(3) #3 (cu) AND (1) #8 GROUND	1 1/4"	EXISTING "XFMER T1"
7	277/480V, 3Ø, 4W	NEW 800A	NEW (2) PARALLEL SETS OF (3) #500 kcmil AND (1) #3 GROUND (CU)	EXIST. 2 @ 3"	NEW ICE PLANT "MCC"
8	277/480V, 3Ø, 4W	200A	(3) #4/0 (cu) AND (1) #4 GROUND	2 1/2"	EXISTING "XFMER T2"
9	277/480V, 3Ø, 4W	225A	(4) #4/0 (cu) AND (1) #4 GROUND	2 1/2"	EXISTING PANEL "LP1"
NOTE TH	E USE OF EQUIVALENTLY SIZED ALU		DRS IS ACCEPTABLE FOR SIZES 1/0 AND LA	RGER FOR NO	N-MOTOR LOADS.

THE TOTAL DIVERSIFIED LOAD = 875,270 WATTS 875,270 WATTS ÷ (480V x √ 3) = 1,053.3A x 1.25 = 1,316.6 AMPS TOTAL LOAD (NOTE: SERVICE IS PROTECTED AT 1,600A)



ervici	E: LOC:	IN	M	DΡ	ROC	M MAINS:	
120/	/208 ∨.					100	AMP.
	B PH.					100A	
4						22k	A.I.C
6	0 Hz.						
GRD. E	BUS: YES						
TRIP AMPS							TRIP AMPS
20/1	EXISTING SCORE BOARD SW	1	+	-	2	SPARE	20/1
20/1	EXISTING SCORE BOARD SW	3	1-	+	4	SPARE	20/1
20/1	EXISTING SCORE BOARD SW CLK	5	1+	-	6	SPARE	20/1
20/1	MOTORIZED DAMPERS NORTH	7	1-	+	8	SPARE	20/1
20/1	MOTORIZED DAMPERS SOUTH	9	+	-	10	SPARE	20/1
20/1	SPARE	11	]-	+	12	SPARE	20/1
20/1	SPARE	13	+	-	14	SPARE	20/1
20/1	SPARE	15	]-	+	16	SPARE	20/1
20/1	SPARE	17	+	-	18	SPARE	20/1
20/1	SPARE	19	]-	+	20	SPARE	20/1
20/1	SPARE	21	+	-	22	SPARE	20/1
20/1	SPARE	23	]-	+	24	SPARE	20/1
20/1	SPARE	25	+	-	26	SPARE	20/1
20/1	SPARE	27	]-	+	28	SPARE	20/1
20/1	SPARE	29	+	-	30	SPARE	20/1
20/1	SPARE	31	]-	+	32	SPARE	20/1
20/1	SPARE	33	+	-	34	SPARE	20/1
20/1	SPARE	35		+	36	SPARE	20/1
20/1	SPARE	37	+	-	38	SPARE	20/1
20/1	SPARE	39		+	40	SPARE	20/1
20/1	SPARE	41	+	-	42	SPARE	20/1

TOTAL LOAD INFORMATION

			City of Dublin	Health
		ELECTRICAL SYMBO		
SYN	MBOL	(NOT ALL SYMBOLS MAY BE USEI) DESCRIPTION	Construction CALINTIN2 Ord00218	B Dublin Obillor
		EXISTING (TO REMAIN UNLESS NOTED OTHERWISE)	07011111111111111111111111111111111111	Dublin Chiller
	<b>e</b>	CONNECT TO EXISTING	_	
		SITE		
	-0 0	POLE MOUNTED OUTDOOR LIGHT FIXTURE POST TOP MOUNTED OUTDOOR LIGHT FIXTURE	SEE DRAWINGS SEE DRAWINGS	
	⊲ ⊙	GROUND MOUNTED FLOODLIGHT FIXTURE	SEE DRAWINGS	7001 Dublin Park Dr.
É	d I I I I I I I I I I I I I I I I I I I	ELECTRIC PAD-MOUNT TRANSFORMER	SEE DRAWINGS	Dublin, Ohio 43016
-(	●- ●	ELECTRIC HANDHOLE	_	PROJECT NUMBER: CHILL 10
[	五 38	OUTDOOR SWITCHGEAR PAD-MOUNTED SWITCH	_	
[	<u>_</u>	CT CABINET	SEE DRAWINGS	ACOCK
(	₽ <b>D</b> D	COMMUNICATION MAN HOLE TELEPHONE PAD PEDESTAL	_	ASSOCIATES
E		EMERGENCY TELEPHONE INFORMATION TELEPHONE	_	A R C H I T E C T
		BELL TELEPHONE		Columbus, Ohio 43215 Ph: (614) 228-1586 Fax: (614) 228-2780
	0	CEILING FIXTURE		
		WALL FIXTURE CEILING MOUNTED, DOUBLE FACED EXIT SIGN WITH DIRECTIONAL ARROWS		
H (	Ø Ø	WALL MOUNTED EXIT SIGN CEILING MOUNTED, COMBINATION EXIT SIGN/EMERGENCY HEAD UNIT	SEE DRAWINGS	M-Engineering
		WALL MOUNTED EMERG. LIGHT TRACK LIGHTING STRIP LIGHT FIXTURE	SEE DRAWINGS SEE DRAWINGS CEILING	750 Brooksedge Blvd. Westerville, Ohio 43081 phone: 614.839.4639
_	•	2x4 LIGHT FIXTURE	CEILING	fax: 614.839.2222 www.mengineering.us.com
	•	2x4 LIGHT FIXTURE (HALF ON EMERGENCY POWER) 2x4 LIGHT FIXTURE (ALL ON EMERGENCY POWER)	CEILING	
(	0	WALL OUTLET WIRED JUNCTION BOX	SEE DRAWINGS SEE DRAWINGS	STATE OF OH ON
	® ⊘— <del>►</del>	BLANK OUTLET BOX PLUG-IN RACEWAY, LENGTH PER DRAWINGS	SEE DRAWINGS SEE DRAWINGS	
	0	RECEPTACLES	18"	HE BALLET 64063 CS
(	⊙ ⇔	DUPLEX RECEPTACLE, FLOOR MOUNTED DUPLEX RECEPTACLE, CEILING MOUNTED	_	WASSIONAL ENGINE
Ħ	⊜w₽ ⊜₢₽ ₱	DUPLEX RECEPTACLE, WEATHERPROOF GROUND FAULT PROTECTED DUPLEX RECEPTACLE DOUBLE DUPLEX (QUAD) RECEPTACLE	18" 18" 18"	
Ħ	<ul> <li>●</li> <li>●</li> </ul>	DUPLEX RECEPTACLE, ABOVE COUNTER WALL MOUNTED SPECIAL OUTLET, AS REQUIRED	48" 18"	
	<u>م</u>			
	\$3,\$4 \$к \$р	TOGGLE SWITCH - SINGLE, 3-WAY, 4-WAY TOGGLE SWITCH - KEY OPERATED TOGGLE SWITCH - WITH PILOT LIGHT	48" 48" 48"	
[	\$wP •	TOGGLE SWITCH, WEATHERPROOF WALL BOX - DIMMER	48" 48"	
5	① 	LINE VOLTAGE THERMOSTAT ELECTRIC PANEL - SURFACE MOUNTED	48" 6'-0" TO TOP 6'-0" TO TOP	
0	■ ſ	ELECTRIC PANEL - FLUSH MOUNTED SAFETY SWITCH (NON-FUSED) SAFETY SWITCH (FUSED)	AS REQUIRED AS REQUIRED	
٥	ଅ ଆ	3-PHASE MAGNETIC MOTOR STARTER COMBINATION STARTER/SAFETY SWITCH	AS REQUIRED AS REQUIRED	
	\$м \$мр •	MANUAL MOTOR STARTING SWITCH MANUAL MOTOR STARTING SWITCH WITH PILOT LIG PUSHBUTTON STATION	48" HT 48" 48"	
•	- 19 19 19	START/STOP PUSHBUTTON STATION MOTOR - 1 PHASE	48" AS REQUIRED	
[	б П В	MOTOR - 3 PHASE TIME CLOCK OCCUPANCY SENSOR/DIMMER	AS REQUIRED AS REQUIRED AS REQUIRED	
E		PHOTOCELL BUS DUCT	AS REQUIRED SEE DRAWINGS	
		COMMUNICATIONS		
H	⊠ ⊠₽ ⊠₩	TELEPHONE OUTLET PUBLIC TELEPHONE OUTLET WALL TELEPHONE OUTLET	18" 48" 54"	
H		COMBINATION TELEPHONE/DATA OUTLET DATA OUTLET	18" 18"	
(	© © 0	TELEPHONE OUTLET, FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET, FLOOR M DATA OUTLET FLOOR OUTLET		
H	© ⊠2⊺ ©	TWO TELEPHONE OUTLETS (NO DATA)	18"	
н	© ©	RECESSED CEILING SPEAKER (PAGING/MUSIC/SECURITY) WALL MOUNTED SPEAKER MICROPHONE OUTLET, FLOOR MOUNTED	SEE DRAWINGS	
к К	⊗ ©₂	MICROPHONE OUTLET, WALL MOUNTED CLOCK - DOUBLE FACE	SEE DRAWINGS 96"	
н	ው © ፱	CLOCK - SINGLE FACE CLOCK OUTLET VOLUME CONTROL	96" 96" 48"	
[	3 2 2	VOLUME CONTROL INTERCOM STATION TELEVISION OUTLET	48" 48" 18"	ELECTRICAL SCHEDULES AND
[	BO M	BUZZER AND TRANSFORMER NURSE CALL STATION CARLE TRAY	AS REQUIRED 48" SEE DRAWINGS	DETAILS
	₩₩	SECURITY	SEE DRAWINGS	
E	ß	ELECTRIC STRIKE CARD READER	SEE DRAWINGS 48"	
(	8 9 9	MAGNETIC LOCK MOTION DETECTOR WINDOW DETECTOR	SEE DRAWINGS SEE DRAWINGS CEILING MOUNTED	
l I	DC WC	DOOR CONTACTS WINDOW CONTACTS	CONCEALED AS REQUIRED AS REQUIRED	
( [	⊚ ⊡⊲ ∎ <b>⊲</b>	EMPTY DOME FOR FUTURE CAMERA CAMERA - PAN, TILT AND ZOOM CAMERA IN DOME CAMERA - FIXED WITH ZOOM LENS - NO DOME	SEE DRAWINGS SEE DRAWINGS SEE DRAWINGS	SCALE: 1/8"=1'-0"
	55 00P	CAMERA - FIXED WITH ZOOM LENS - NO DOME NIGHT WATCHMEN SYSTEM STATION DATA GATHERING PANEL	SEE DRAWINGS 48" 6'-0" TO TOP	ISSUE DATE:
-	-	EMERGENCY CALL PULL STATION	SEE DRAWINGS	REVISIONS
		MANUAL ALARM BOX (PULL STATION AND PULL BOX FIRE ALARM AUDIO/VISUAL SIGNAL DEVICE (ADA TY	,	NUMBER DATE NUMBER DAT
[	FD ⊡⊲	FIRE ALARM VISUAL SIGNAL DEVICE (ADA TYPE) FIRE ALARM AUDIO SIGNAL DEVICE	80"-96" 90"	<u>/1</u> 02/27/2020 <u>/2</u> 04/17/2020
(	ෂ භ භ	FIRE ALARM AUDIO/VISUAL SIGNAL DEVICE (ADA TY FIRE ALARM VISUAL SIGNAL DEVICE (ADA TYPE) FIRE ALARM AUDIO SIGNAL DEVICE (ADA TYPE)	PE) CEILING CEILING CEILING	3 05/14/2020 4 06/15/2020
	DH	FIRE ALARM AUDIO SIGNAL DEVICE (ADA TYPE) MAGNETIC DOOR HOLDER CONTROLLED VIA FIRE ALARM SYSTEM FIRE ALARM CONTROL PANEL	48"	5 06/19/2020
-	FAA PEP	FIRE ALARM CONTROL PANEL FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANE FIRE ALARM POWER EXTENDER PANEL	AS REQUIRED L AS REQUIRED AS REQUIRED	
	EVAC	VOICE EVACUATION PANEL BATTERY PACK AND CHARGER	AS REQUIRED AS REQUIRED	
	BATT	ELEVATOR STATUS/RECALL	AS REQUIRED	
	алт БЯР (3)	DUCT MOUNTED SYSTEM SMOKE DETECTOR WITH REMOTE INDICATORS/RESET	AS REQUIRED	
	III IIII IIII IIIII IIIIII IIIIII IIIIII		AS REQUIRED 48" CEILING MOUNTED CEILING MOUNTED	
	III IIII IIII IIIII IIIII IIIIII IIIIII	DUCT MOUNTED SYSTEM SMOKE DETECTOR WITH REMOTE INDICATORS/RESET REMOTE ALARM INDICATING AND TEST SWITCH SYSTEM SMOKE DETECTOR SYSTEM HEAT DETECTOR COMBINATION SMOKE/HEAT DETECTOR PROJECTED BEAM TRANSMITTER	48" CEILING MOUNTED CEILING MOUNTED CEILING MOUNTED AS REQUIRED	<b>D4</b>
	IT IT ISR ISR ISR ISR ISR ISR ISR ISR ISR ISR	DUCT MOUNTED SYSTEM SMOKE DETECTOR WITH REMOTE INDICATORS/RESET REMOTE ALARM INDICATING AND TEST SWITCH SYSTEM SMOKE DETECTOR SYSTEM HEAT DETECTOR COMBINATION SMOKE/HEAT DETECTOR PROJECTED BEAM TRANSMITTER PROJECTED BEAM RECEIVER END OF LINE RELAY	48" CEILING MOUNTED CEILING MOUNTED CEILING MOUNTED AS REQUIRED AS REQUIRED	E5
	ER S S RTS S O T O R	DUCT MOUNTED SYSTEM SMOKE DETECTOR WITH REMOTE INDICATORS/RESET REMOTE ALARM INDICATING AND TEST SWITCH SYSTEM SMOKE DETECTOR SYSTEM HEAT DETECTOR COMBINATION SMOKE/HEAT DETECTOR PROJECTED BEAM TRANSMITTER PROJECTED BEAM RECEIVER	48" CEILING MOUNTED CEILING MOUNTED CEILING MOUNTED AS REQUIRED AS REQUIRED	E5