PANELBOARD SCHEDULE

PANEL NAME: 1HA1

MOUNTING: SURFACE **ENCLOSURE:** NEMA 1 **DOOR TYPE:** DOOR-IN-DOOR
VOLTAGE: 277/480V **PHASE:** 3 **WIRES:** 4W **Min. A.I.C. RATING:** 35K AIC
LOCATION: ELECTRICAL A141 **MAIN TYPE:** MLO **BUS RATING:** 225 A **MCB RATING:** NONE **BUS MATERIAL:** ALUMINUM
FEED FROM: HMDS **SPD:** NONE **NEUTRAL RATING:** 100% **ISOLATED GROUND:** NONE

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	LTG - LEVEL 1 AREA A	20 A	1	L	1	1844 VA	14532...					2		3	125 A	1TA1	
	LTG - LEVEL 1 AREA A...	20 A	1	L	3			624 VA	10476...			4		–	–	–	–
	LTG - LEVEL 2 AREA A	20 A	1	L	5					1792 VA	9024 VA	6		–	–	–	–
	LTG - LEVEL 2 AREA A...	20 A	1	L	7	2031 VA	0 VA					8		–	–	-SPACE ONLY-	–
	LTG - MUSIC STORAGE A127	20 A	1	L	9			0 VA	0 VA			10		–	–	-SPACE ONLY-	–
	SECOND FLOOR BUTTERFLIES	20 A	1	L	11					1690 VA	0 VA	12		–	–	-SPACE ONLY-	–
	-SPARE-	20 A	1		13	0 VA	0 VA					14		–	–	-SPACE ONLY-	–
	-SPARE-	20 A	1		15			0 VA	0 VA			16		–	–	-SPACE ONLY-	–
	-SPARE-	20 A	1		17					0 VA	0 VA	18		–	–	-SPACE ONLY-	–
	-SPARE-	20 A	1		19	0 VA	0 VA					20		–	–	-SPACE ONLY-	–
	-SPARE-	20 A	1		21			0 VA	0 VA			22		–	–	-SPACE ONLY-	–
	-SPARE-	20 A	1		23					0 VA	0 VA	24		–	–	-SPACE ONLY-	–
	-SPARE-	20 A	1		25	0 VA	0 VA					26		–	–	-SPACE ONLY-	–
	-SPARE-	20 A	1		27			0 VA	0 VA			28		–	–	-SPACE ONLY-	–
	-SPARE-	20 A	1		29					0 VA	0 VA	30		–	–	-SPACE ONLY-	–
	TOTAL CONNECTED LOAD PER PHASE (VA)					18407 VA		11100 VA		12506 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					67 A		40 A		46 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	29160 VA	67.15%	19580 VA	Total Conn. Load:	42013 VA
L	Lighting	6291 VA	125.00%	7864 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	34180 VA
E	Equipment	1200 VA	100.00%	1200 VA	Total Conn. Current:	51 A
M	Motor	3672 VA	104.74%	3846 VA	Total Est. Demand Current:	41 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1HA2

MOUNTING: SURFACE **ENCLOSURE:** TYPE 1 **DOOR TYPE:** DOOR-IN-DOOR
VOLTAGE: 480/277Wye **PHASE:** 3 **WIRES:** 4 **Min. A.I.C. RATING:** 35k AIC
LOCATION: ELECTRICAL A109 **MAIN TYPE:** MLO **BUS RATING:** 150A **MCB RATING:** NONE **BUS MATERIAL:** ALUMINIUM
FEED FROM: HMDS **SPD:** NONE **NEUTRAL RATING:** 100% **ISOLATED GROUND:** NONE

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	LTG - LEVEL 1 AREA A	20 A	1		1	2028 VA	0 VA					2		3	70 A	XFMR '1TA2'	
	LTG - LEVEL 1 AREA A...	20 A	1		3			1192 VA	0 VA			4		–	–	–	–
					5						0 VA	6		–	–	–	–
					7							8					
	-SPARE-	20 A	1		9			0 VA	0 VA			10		1	20 A	-SPARE-	
	-SPARE-	20 A	1		11					0 VA	0 VA	12		1	20 A	-SPARE-	
	-SPARE-	20 A	1		13	0 VA	0 VA					14		1	20 A	-SPARE-	
	-SPARE-	20 A	1		15			0 VA	0 VA			16		1	20 A	-SPARE-	
	-SPARE-	20 A	1		17					0 VA	0 VA	18		1	20 A	-SPARE-	
	-SPARE-	20 A	1		19	0 VA	0 VA					20		1	20 A	-SPARE-	
	-SPARE-	20 A	1		21			0 VA	0 VA			22		1	20 A	-SPARE-	
	-SPARE-	20 A	1		23					0 VA	0 VA	24		1	20 A	-SPARE-	
	-SPARE-	20 A	1		25	0 VA	0 VA					26		1	20 A	-SPARE-	
	-SPARE-	20 A	1		27			0 VA	0 VA			28		1	20 A	-SPARE-	
	-SPARE-	20 A	1		29					0 VA	0 VA	30		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					2028 VA		1192 VA		0 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					8 A		5 A		0 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	0 VA	0.00%	0 VA	Total Conn. Load:	3220 VA
L	Lighting	3220 VA	125.00%	4025 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	4025 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	4 A
M	Motor	0 VA	0.00%	0 VA	Total Est. Demand Current:	5 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1HB1

MOUNTING: SURFACE **ENCLOSURE:** TYPE 1 **DOOR TYPE:** DOOR-IN-DOOR
VOLTAGE: 480/277 Wye **PHASE:** 3 **WIRES:** 4 **Min. A.I.C. RATING:** 35k AIC
LOCATION: ELECTRICAL B138 **MAIN TYPE:** MLD **BUS RATING:** 225A **MCB RATING:** NONE **BUS MATERIAL:** ALUMINIUM
FEED FROM: HMDS **SPD:** NONE **NEUTRAL RATING:** 100% **ISOLATED GROUND:** NONE

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	LTG - LEVEL 1 AREA B	20 A	1		1	2548 VA	0 VA					2		3	125 A	XFMR '1TB1'	
	LTG - LEVEL 1 AREA B...	20 A	1		3			644 VA	0 VA			4		–	–	–	–
	LTG - LEVEL 2 AREA B	20 A	1		5					2154 VA	0 VA	6		–	–	–	–
	LTG - LEVEL 2 AREA B...	20 A	1		7	1120 VA						8					
	LTG - MOTHERS ROOM B143	20 A	1		9			0 VA				10					
					11							12					
					13							14					
	-SPARE-	20 A	1		15			0 VA	0 VA			16		1	20 A	-SPARE-	
	-SPARE-	20 A	1		17					0 VA	0 VA	18		1	20 A	-SPARE-	
	-SPARE-	20 A	1		19	0 VA	0 VA					20		1	20 A	-SPARE-	
	-SPARE-	20 A	1		21			0 VA	0 VA			22		1	20 A	-SPARE-	
	-SPARE-	20 A	1		23					0 VA	0 VA	24		1	20 A	-SPARE-	
	-SPARE-	20 A	1		25	0 VA	0 VA					26		1	20 A	-SPARE-	
	-SPARE-	20 A	1		27			0 VA	0 VA			28		1	20 A	-SPARE-	
	-SPARE-	20 A	1		29					0 VA	0 VA	30		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					3668 VA		644 VA		2154 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					14 A		2 A		9 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	0 VA	0.00%	0 VA	Total Conn. Load:	6434 VA
L	Lighting	6434 VA	125.00%	8043 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	8043 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	8 A
M	Motor	0 VA	0.00%	0 VA	Total Est. Demand Current:	10 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1HB2

MOUNTING: SURFACE **ENCLOSURE:** TYPE 1 **DOOR TYPE:** DOOR-IN-DOOR
VOLTAGE: 480/277 Wye **PHASE:** 3 **WIRES:** 4 **Min. A.I.C. RATING:** 35k AIC
LOCATION: ELECTRICAL B118 **MAIN TYPE:** MLO **BUS RATING:** 225A **MCB RATING:** NONE **BUS MATERIAL:** ALUMINUIM
FEED FROM: HMDS **SPD:** NONE **NEUTRAL RATING:** 100% **ISOLATED GROUND:** NONE

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	LTG - LEVEL 1 AREA B	20 A	1		1	2994 VA	0 VA					2		3	125 A	XFMR '1TB2'	
	LTG - LEVEL 1 AREA B...	20 A	1		3			684 VA	0 VA			4		–	–	–	–
	LTG - LEVEL 2 AREA B	20 A	1		5					2154 VA	0 VA	6		–	–	–	–
	LTG - LEVEL 2 AREA B...	20 A	1		7	2552 VA						8					
	LTG - LEVEL 1 CORRIDOR	20 A	1		9			1704 VA				10					
	LTG - LEVEL 2 COLLAB. B203	20 A	1		11					512 VA		12					
					13							14					
	-SPARE-	20 A	1		15			0 VA	0 VA			16		1	20 A	-SPARE-	
	-SPARE-	20 A	1		17					0 VA	0 VA	18		1	20 A	-SPARE-	
	-SPARE-	20 A	1		19	0 VA	0 VA					20		1	20 A	-SPARE-	
	-SPARE-	20 A	1		21			0 VA	0 VA			22		1	20 A	-SPARE-	
	-SPARE-	20 A	1		23					0 VA	0 VA	24		1	20 A	-SPARE-	
	-SPARE-	20 A	1		25	0 VA	0 VA					26		1	20 A	-SPARE-	
	-SPARE-	20 A	1		27			0 VA	0 VA			28		1	20 A	-SPARE-	
	-SPARE-	20 A	1		29					0 VA	0 VA	30		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					5546 VA		2388 VA		2666 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					20 A		9 A		10 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	0 VA	0.00%	0 VA	Total Conn. Load:	10568 VA
L	Lighting	10568 VA	125.00%	13210 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	13210 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	13 A
M	Motor	0 VA	0.00%	0 VA	Total Est. Demand Current:	16 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1HC1

MOUNTING: SURFACE **ENCLOSURE:** TYPE 1 **DOOR TYPE:** DOOR-IN-DOOR
VOLTAGE: 480/277 Wye **PHASE:** 3 **WIRES:** 4 **Min. A.I.C. RATING:** 35k AIC
LOCATION: ELECTRICAL C144 **MAIN TYPE:** MLO **BUS RATING:** 100A **MCB RATING:** NONE **BUS MATERIAL:** ALUMINIUM
FEED FROM: HMDS **SPD:** NONE **NEUTRAL RATING:** 100% **ISOLATED GROUND:** NONE

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	LTG - LEVEL 1 AREA C	20 A	1		1	2190 VA						2					
	LTG - LEVEL 2 AREA C	20 A	1		3			2436 VA				4					
	LTG - SITE PARKING	20 A	1		5					200 VA		6					
	LTG - SITE POLES	20 A	1		7	350 VA						8					
					9				0 VA			10		1	20 A	-SPARE-	
	LTG - MULTIPURPOSE...	20 A	1		11					32 VA	0 VA	12		1	20 A	-SPARE-	
					13		0 VA					14		1	20 A	-SPARE-	
					15				0 VA			16		1	20 A	-SPARE-	
	-SPARE-	20 A	1		17					0 VA	0 VA	18		1	20 A	-SPARE-	
	-SPARE-	20 A	1		19	0 VA	0 VA					20		1	20 A	-SPARE-	
	-SPARE-	20 A	1		21			0 VA	0 VA			22		1	20 A	-SPARE-	
	-SPARE-	20 A	1		23					0 VA	0 VA	24		1	20 A	-SPARE-	
	-SPARE-	20 A	1		25	0 VA	0 VA					26		1	20 A	-SPARE-	
	-SPARE-	20 A	1		27			0 VA	0 VA			28		1	20 A	-SPARE-	
	-SPARE-	20 A	1		29					0 VA	0 VA	30		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					2540 VA		2436 VA		232 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					10 A		10 A		1 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	0 VA	0.00%	0 VA	Total Conn. Load:	5208 VA
L	Lighting	5208 VA	125.00%	6510 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	6510 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	6 A
M	Motor	0 VA	0.00%	0 VA	Total Est. Demand Current:	8 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1MC1

MOUNTING: SURFACE **ENCLOSURE:** TYPE 1 **DOOR TYPE:** DOOR-IN-DOOR
VOLTAGE: 480/277 Wye **PHASE:** 3 **WIRES:** 4 **Min. A.I.C. RATING:** 35K AIC
LOCATION: MECHANICAL C142 **MAIN TYPE:** MLO **BUS RATING:** 225A **MCB RATING:** NONE **BUS MATERIAL:** ALUMINIUM
FEED FROM: HMDS **SPD:** NONE **NEUTRAL RATING:** 100% **ISOLATED GROUND:** NONE

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	MAKE UP AIR UNIT 'MAU-1'	20 A	3	M	1	2106 VA	3880 VA					2	M	3	30 A	COOLING TOWER 'CT-1'	
–	–	–	–	–	3			2106 VA	3880 VA			4		–	–	–	–
–	–	–	–	–	5					2106 VA	3880 VA	6		–	–	–	–
	EXHAUST FAN 'EF-C1.3A'	20 A	3	M	7	831 VA	0 VA					8		3	20 A	-SPARE-	
–	–	–	–	–	9			831 VA	0 VA			10		–	–	–	–
–	–	–	–	–	11					831 VA	0 VA	12		–	–	–	–
	EXHAUST FAN 'EF-C1.3B'	20 A	3	M	13	831 VA	0 VA					14		3	20 A	-SPARE-	
–	–	–	–	–	15			831 VA	0 VA			16		–	–	–	–
–	–	–	–	–	17					831 VA	0 VA	18		–	–	–	–
	PUMP 'P-4'	40 A	3	M	19	5820 VA	0 VA					20		3	30 A	-SPARE-	
–	–	–	–	–	21			5820 VA	0 VA			22		–	–	–	–
–	–	–	–	–	23					5820 VA	0 VA	24		–	–	–	–
	PUMP 'P-3'	40 A	3	M	25	5820 VA	0 VA					26		3	30 A	-SPARE-	
–	–	–	–	–	27			5820 VA	0 VA			28		–	–	–	–
–	–	–	–	–	29					5820 VA	0 VA	30		–	–	–	–
	PUMP 'P-1'	50 A	3	M	31	7482 VA	0 VA					32		3	40 A	-SPARE-	
–	–	–	–	–	33			7482 VA	0 VA			34		–	–	–	–
–	–	–	–	–	35					7482 VA	0 VA	36		–	–	–	–
	PUMP 'P-2'	60 A	3	M	37	7482 VA	0 VA					38		3	50 A	-SPARE-	
–	–	–	–	–	39			7482 VA	0 VA			40		–	–	–	–
–	–	–	–	–	41					7482 VA	0 VA	42		–	–	–	–
	TOTAL CONNECTED LOAD PER PHASE (VA)					34253 VA		34253 VA		34253 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					124 A		124 A		124 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	0 VA	0.00%	0 VA	Total Conn. Load:	102759 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	108371 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	124 A
M	Motor	102759 VA	105.46%	108371 VA	Total Est. Demand Current:	130 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANEL LEGEND

	1HA1	1HA2
	1HB1	1HB2
	1HC1	1MC1

PANELBOARD SCHEDULE KEYED NOTE:

1. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
2. PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER
3. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUND FAULT PROTECTOR TYE CIRCUIT BREAKER.
4. PROVIDE SHUNT TRIP CIRCUIT BREAKER WITH 120 V COIL.
5. PROVIDE HACR RATED CIRCUIT BREAKER.
6. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
7. PROVIDE SWITCHING RATED CIRCUIT BREAKER.
8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LOCATED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING.
9. EXISTING LOAD

MHTN ARCHITECTS
MHTN Architects, Inc.
420 East South Temple
Suite 100
Salt Lake City, Utah 84111
Telephone (801) 595-6700
Telefax (801) 595-6717
www.mhtn.com

ENVISION ENGINEERING
240 E. MORRIS AVE. SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130
F (801) 534-1080
www.envisioneng.com

OGDEN SCHOOL DISTRICT
HORACE MANN ELEMENTARY SCHOOL - RFP 20-012
1300 9TH STREET
OGDEN, UTAH 84404

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SEAL

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NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
NOVEMBER 21, 2019

SHEET NAME
PANEL SCHEDULES

SHEET NUMBER
E-340

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PANELBOARD SCHEDULE

PANEL NAME: 2MB1

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 480/277 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 35K AIC

LOCATION: AIR HANDLER B236
MAIN TYPE: MLO
BUS RATING: 225A
MCB RATING: NONE
BUS MATERIAL: ALUMINIUM

FEED FROM: HMDS
SPD: NONE
NEUTRAL RATING: 100%
ISOLATED GROUND: NONE

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	BRANCH BREAKERS A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	AH-1 SUPPLY FANS	70 A	3	M	1	11085...	0 VA					2		3	70 A	-SPARE-	
–	–	–	–	–	3			11085...	0 VA			4	–	–	–	–	–
–	–	–	–	–	5					11085...	0 VA	6	–	–	–	–	–
	AH-1 RELEIF FANS	40 A	3	M	7	5820 VA	0 VA					8		3	70 A	-SPARE-	
–	–	–	–	–	9			5820 VA	0 VA			10	–	–	–	–	–
–	–	–	–	–	11					5820 VA	0 VA	12	–	–	–	–	–
	AH-3 RELEIF FANS	30 A	3	M	13	3880 VA	0 VA					14		3	30 A	-SPARE-	
–	–	–	–	–	15			3880 VA	0 VA			16	–	–	–	–	–
–	–	–	–	–	17					3880 VA	0 VA	18	–	–	–	–	–
	AH-3 SUPPLY FANS	30 A	3	M	19	3880 VA	0 VA					20		3	40 A	-SPARE-	
–	–	–	–	–	21			3880 VA	0 VA			22	–	–	–	–	–
–	–	–	–	–	23					3880 VA	0 VA	24	–	–	–	–	–
	-SPARE-	20 A	3		25	0 VA	0 VA					26		3	40 A	-SPARE-	
–	–	–	–	–	27			0 VA	0 VA			28	–	–	–	–	–
–	–	–	–	–	29					0 VA	0 VA	30	–	–	–	–	–
	-SPARE-	20 A	3		31	0 VA	0 VA					32		–	–	-SPACE ONLY-	–
–	–	–	–	–	33			0 VA	0 VA			34		–	–	-SPACE ONLY-	–
–	–	–	–	–	35					0 VA	0 VA	36		–	–	-SPACE ONLY-	–
	-SPARE-	30 A	3		37	0 VA	0 VA					38		–	–	-SPACE ONLY-	–
–	–	–	–	–	39			0 VA	0 VA			40		–	–	-SPACE ONLY-	–
–	–	–	–	–	41					0 VA	0 VA	42		–	–	-SPACE ONLY-	–
	TOTAL CONNECTED LOAD PER PHASE (VA)					24664 VA		24664 VA		24664 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					89 A		89 A		89 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	0 VA	0.00%	0 VA	Total Conn. Load:	73993 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	82307 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	89 A
M	Motor	73993 VA	111.24%	82307 VA	Total Est. Demand Current:	99 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 2MC1

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 480/277 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 35K AIC

LOCATION: CORRIDOR B201
MAIN TYPE: MLO
BUS RATING: 225A
MCB RATING: NONE
BUS MATERIAL: ALUMINIUM

FEED FROM: HMDS
SPD: NONE
NEUTRAL RATING: 100%
ISOLATED GROUND: NONE

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	BRANCH BREAKERS A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	CONDENSING UNIT 'CU-C1A'	40 A	3	M	1	6097 VA	0 VA					2		3	20 A	-SPARE-	
–	–	–	–	–	3			6097 VA	0 VA			4	–	–	–	–	–
–	–	–	–	–	5					6097 VA	0 VA	6	–	–	–	–	–
	CONDENSING UNIT 'CU-C1B'	40 A	3	M	7	6097 VA	0 VA					8		3	70 A	-SPARE-	
–	–	–	–	–	9			6097 VA	0 VA			10	–	–	–	–	–
–	–	–	–	–	11					6097 VA	0 VA	12	–	–	–	–	–
	AH-4 RELEIF FANS	20 A	3	M	13	1330 VA	0 VA					14		3	20 A	-SPARE-	
–	–	–	–	–	15			1330 VA	0 VA			16	–	–	–	–	–
–	–	–	–	–	17					1330 VA	0 VA	18	–	–	–	–	–
	AH-4 SUPPLY FANS	20 A	3	M	19	2106 VA	0 VA					20		3	40 A	-SPARE-	
–	–	–	–	–	21			2106 VA	0 VA			22	–	–	–	–	–
–	–	–	–	–	23					2106 VA	0 VA	24	–	–	–	–	–
	AH-2 RELEIF FANS	70 A	3	M	25	11085...	0 VA					26		3	70 A	-SPARE-	
–	–	–	–	–	27			11085...	0 VA			28	–	–	–	–	–
–	–	–	–	–	29					11085...	0 VA	30	–	–	–	–	–
	AH-2 SUPPLY FANS	70 A	3	M	31	11085...	0 VA					32		–	–	-SPACE ONLY-	–
–	–	–	–	–	33			11085...	0 VA			34		–	–	-SPACE ONLY-	–
–	–	–	–	–	35					11085...	0 VA	36		–	–	-SPACE ONLY-	–
	-SPARE-	40 A	3		37	0 VA	0 VA					38		–	–	-SPACE ONLY-	–
–	–	–	–	–	39			0 VA	0 VA			40		–	–	-SPACE ONLY-	–
–	–	–	–	–	41					0 VA	0 VA	42		–	–	-SPACE ONLY-	–
	TOTAL CONNECTED LOAD PER PHASE (VA)					37800 VA		37800 VA		37800 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					136 A		136 A		136 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	0 VA	0.00%	0 VA	Total Conn. Load:	113401 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	121715 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	136 A
M	Motor	113401 VA	107.33%	121715 VA	Total Est. Demand Current:	146 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1LA1

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 22K AIC

LOCATION: ELECTRICAL A141
MAIN TYPE: MCB/FTL
BUS RATING: 300 A
MCB RATING: 2500 A
BUS MATERIAL: ALUMINUM

FEED FROM: 1TA1
SPD: CAT 'A'
NEUTRAL RATING: 200%
ISOLATED GROUND: NONE

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	BRANCH BREAKERS A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RCPTS - LEARNING STUDIO...	20 A	1	R	1	900 VA	720 VA					2	R	1	20 A	RCPTS - LEARNING STUDIO...	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	3			360 VA	360 VA			4	R	1	20 A	A/V CAB. - LEARNING STUDIO...	
	RCPTS - LEARNING STUDIO...	20 A	1	R	5					720 VA	360 VA	6	R	1	20 A	VIDEO WALL	
	RCPTS - LEARNING STUDIO...	20 A	1	R	7	900 VA	696 VA					8	M	1	20 A	CABINET UNIT HEATER...	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	9			360 VA	0 VA			10	M	1	20 A	VAV BOX TRANSFORMER	
	RCPTS - LEARNING STUDIO...	20 A	1	R	11					720 VA	360 VA	12	R	1	20 A	COLLABORATION A129 AV CAB.	
	RCPTS - STUDENT COLLAB A107	20 A	1	R	13	1980 VA	360 VA					14	R	1	20 A	DISPLAY CABINET	
1	EWC - CORRIDOR A106	20 A	1	R	15			600 VA	528 VA			16	M	1	20 A	EXHAUST FAN 'EF-A1.5'	
	RCPTS - THINK TANK A136	20 A	1	R	17					720 VA	696 VA	18	M	1	20 A	CABINET UNIT HEATER...	
	RCPTS - TEACHER COLLAB....	20 A	1	R	19	900 VA	696 VA					20	M	1	20 A	CABINET UNIT HEATER...	
	RCPTS - TEACHER COLLAB....	20 A	1	R	21			720 VA	0 VA			22		1	20 A	-SPARE-	
	RCPTS - W/C A138	20 A	1	R	23					1080 VA	0 VA	24		1	20 A	-SPARE-	
	RCPTS - CORRIDOR A103	20 A	1	R	25	720 VA	0 VA					26		1	20 A	-SPARE-	
	RCPTS - LEARNING STUDIO...	20 A	1	R	27			900 VA	0 VA			28		1	20 A	-SPARE-	
	RCPTS - LEARNING STUDIO...	20 A	1	R	29					720 VA	0 VA	30		1	20 A	-SPARE-	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	31	360 VA	0 VA					32		1	20 A	-SPARE-	
	RCPTS - LEARNING STUDIO...	20 A	1	R	33			900 VA	0 VA			34		1	20 A	-SPARE-	
	-SPARE-	20 A	1		35					0 VA	0 VA	36		1	20 A	-SPARE-	
	-SPARE-	20 A	1		37	0 VA	0 VA					38		1	20 A	-SPARE-	
	-SPARE-	20 A	1		39			0 VA	0 VA			40		1	20 A	-SPARE-	
	-SPARE-	20 A	1		41					0 VA	0 VA	42		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					8232 VA		4728 VA		5376 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					69 A		39 A		46 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	15120 VA	83.07%	12560 VA	Total Conn. Load:	18336 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	15950 VA
E	Equipment	600 VA	100.00%	600 VA	Total Conn. Current:	51 A
M	Motor	2616 VA	106.65%	2790 VA	Total Est. Demand Current:	44 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1LA2

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 22K AIC

LOCATION: ELECTRICAL A109
MAIN TYPE: MCB
BUS RATING: 150 A
MCB RATING: 150 A
BUS MATERIAL: ALUMINUM

FEED FROM: 1TA2
SPD: CAT 'A'
NEUTRAL RATING: 200%
ISOLATED GROUND: NONE

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	BRANCH BREAKERS A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RCPTS - CORRIDOR A103	20 A	1	R	1	900 VA	360 VA					2	R	1	20 A	A/V CAB. - KINDERGARTEN A114	
	RCPTS - PRESCHOOL A125	20 A	1	R	3			720 VA	900 VA			4	R	1	20 A	RCPTS - PRESCHOOL A111	
	A/V CABINET - PRESCHOOL...	20 A	1	R	5					360 VA	720 VA	6	R	1	20 A	RCPTS - PRESCHOOL A111	
	RCPTS - PRESCHOOL A125	20 A	1	R	7	1260 VA	360 VA					8	R	1	20 A	A/V CAB. - PRESCHOOL A111	
	RCPTS - KINDERGARTEN A124	20 A	1	R	9			720 VA	720 VA			10	R	1	20 A	RCPTS - STORAGE A113	
	RCPTS - KINDERGARTEN A124	20 A	1	R	11					720 VA	900 VA	12	R	1	20 A	RCPTS - TEACHER COLLAB....	
	A/V CAB. - KINDERGARTEN A124	20 A	1	R	13	360 VA	720 VA					14	R	1	20 A	RCPTS - TEACHER COLLAB....	
	RCPTS - STORAGE A121	20 A	1	R	15			540 VA	500 VA			16	O	1	20 A	ADA - VESTIBULE A100	
	RCPTS - KINDERGARTEN A120	20 A	1	R	17					720 VA	528 VA	18	M	1	20 A	EXHAUST FAN 'EF-A1.2'	
	RCPTS - KINDERGARTEN A120	20 A	1	R	19	720 VA	528 VA					20	M	1	20 A	EXHAUST FAN 'EF-A1.3'	
	A/V CAB. - KINDERGARTEN A120	20 A	1	R	21			360 VA	528 VA			22	M	1	20 A	EXHAUST FAN 'EF-A1.4'	
	RCPTS - STUDENT COLLAB....	20 A	1	R	23					1620 VA	528 VA	24	M	1	20 A	EXHAUST FAN 'EF-A1.1'	
1	EWC - CORRIDOR A104	20 A	1	R	25	600 VA	696 VA					26	M	1	20 A	CABINET UNIT HEATER...	
	RCPTS - VESTIBULE A101	20 A	1	R	27			360 VA	696 VA			28	M	1	20 A	CABINET UNIT HEATER...	
	RCPTS - THINK TANK A119	20 A	1	R	29					720 VA	0 VA	30	M	1	20 A	VAV BOX TRANSFORMER	
	RCPTS - KINDERGARTEN A118	20 A	1	R	31	720 VA	0 VA					32		1	20 A	-SPARE-	
	RCPTS - KINDERGARTEN A118	20 A	1	R	33			720 VA	0 VA			34		1	20 A	-SPARE-	
	A/V CAB. - KINDERGARTEN A118	20 A	1	R	35					360 VA	0 VA	36		1	20 A	-SPARE-	
	RCPTS - STORAGE A115	20 A	1	R	37	540 VA	0 VA					38		1	20 A	-SPARE-	
	RCPTS - KINDERGARTEN A114	20 A	1	R	39			720 VA	0 VA			40		1	20 A	-SPARE-	
	RCPTS - KINDERGARTEN A114	20 A	1	R	41					720 VA	0 VA	42		1	20 A	-SPARE-	
	-SPARE-	20 A	1		43	0 VA	0 VA					44		1	20 A	-SPARE-	
	-SPARE-	20 A	1		45			0 VA	0 VA			46		1	20 A	-SPARE-	
	-SPARE-	20 A	1		47					0 VA	0 VA	48		1	20 A	-SPARE-	
	-SPARE-	20 A	1		49	0 VA	0 VA					50		1	20 A	-SPARE-	
	-SPARE-	20 A	1		51			0 VA	0 VA			52		1	20 A	-SPARE-	
	-SPARE-	20 A	1		53					0 VA	0 VA	54		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					7764 VA		7484 VA		7896 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					65 A		62 A		66 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	18540 VA	76.97%	14270 VA	Total Conn. Load:	23144 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	19048 VA
E	Equipment	600 VA	100.00%	600 VA	Total Conn. Current:	64 A
M	Motor	4004 VA	104.35%	4178 VA	Total Est. Demand Current:	53 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1LB1

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 22K AIC

LOCATION: ELECTRICAL B138
MAIN TYPE: MCB/FTL
BUS RATING: 300A
MCB RATING: 250A
BUS MATERIAL: ALUMINUM

FEED FROM: 1TB1
SPD: CAT 'A'
NEUTRAL RATING: 200%
ISOLATED GROUND: NONE

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	BRANCH BREAKERS A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RCPTS - LEARNING LAB B123	20 A	1	R	1	900 VA	720 VA					2	R	1	20 A	RCPTS - TEACHER COLLAB....	
	RCPTS - LEARNING LAB B123	20 A	1	R	3			1260 VA	1080 VA			4	R	1	20 A	RCPTS - MOTHERS ROOM B139	
	RCPTS - CUSTODIAL B125	20 A	1	R	5					720 VA	360 VA	6	R	1	20 A	RCPTS - FACULTY LOUNGE...	
	RCPTS - CORRIDOR B101	20 A	1	R	7	1260 VA	720 VA					8	R	1	20 A	RCPTS - FACULTY LOUNGE...	
1	EWC - CORRIDOR B104	20 A	1	R	9			600 VA	180 VA			10	R	1	20 A	RCPTS - EXTERIOR	
	RCPTS - LEARNING STUDIO...	20 A	1	R	11					720 VA	1200 VA	12	R	1	20 A	FRDIGE - FACULTY LOUNGE	
	RCPTS - LEARNING STUDIO...	20 A	1	R	13	720 VA	1000 VA					14	R	1	20 A	ICE MAKER - FACULTY LOUNGE	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	15			360 VA	1176 VA			16	R	1	20 A	DISPOSAL - FACULTY LOUNGE	
	RCPTS - LEARNING STUDIO...	20 A	1	R	17					720 VA	180 VA	18	R	1	20 A	RCPT - FACULTY LOUNGE	
	RCPTS - LEARNING STUDIO...	20 A	1	R	19	720 VA	4000 VA					20	R	2	50 A	OVEN/RANGE - FACULTY...	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	21			360 VA	4000 VA			22	–	–	–	–	–
	RCPTS - CORRIDOR B104	20 A	1	R	23					1440 VA	180 VA	24	R	1	20 A	RCPT - FACULTY LOUNGE	
	RCPTS - STAIR-1 S-B2-1	20 A	1	R	25	360 VA	1500 VA					26	R	1	20 A	MICROWAVE - FACULTY...	
	RCPTS - LEARNING STUDIO...	20 A	1	R	27			720 VA	1500 VA			28	R	1	20 A	MICROWAVE - FACULTY...	
	RCPTS - LEARNING STUDIO...	20 A	1	R	29					720 VA	1500 VA	30	R	1	20 A	MICROWAVE - FACULTY...	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	31	360 VA	360 VA					32	R	1	20 A	DISPLAY CASE	
	RCPTS - LEARNING STUDIO...	20 A	1	R	33			720 VA	180 VA			34	R	1	20 A	RCPT - CUSTODIAL B124	
	RCPTS - LEARNING STUDIO...	20 A	1	R	35					720 VA	360 VA	36	R	1	20 A	COLLABORATION B126 AV CAB.	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	37	360 VA	696 VA					38	R	1	20 A	CABINET UNIT HEATER...	
	RCPTS - THINK TANK B133	20 A	1	R	39			720 VA	0 VA			40	M	1	20 A	VAV BOX TRANSFORMER	
	RCPTS - TEACHER COLLAB....	20 A	1	R	41					900 VA	0 VA	42	M	1	20 A	VAV BOX TRANSFORMER	
	-SPARE-	20 A	1		43	0 VA	696 VA					44	M	1	20 A	CABINET UNIT HEATER...	
	-SPARE-	20 A	1		45			0 VA	0 VA			46		1	20 A	-SPARE-	
	-SPARE-	20 A	1		47					0 VA	0 VA	48		1	20 A	-SPARE-	
	-SPARE-	20 A	1		49	0 VA	0 VA					50		1	20 A	-SPARE-	
	-SPARE-	20 A	1		51			0 VA	0 VA			52		1	20 A	-SPARE-	
	-SPARE-	20 A	1		53					0 VA	0 VA	54		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					14372 VA		12856 VA		9720 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					124 A		111 A		81 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	19080 VA	76.21%	14540 VA	Total Conn. Load:	36948 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	31562 VA
E	Equipment	9600 VA	100.00%	9600 VA	Total Conn. Current:	103 A
M	Motor	2568 VA	111.45%	2862 VA	Total Est. Demand Current:	88 A
K	Kitchen	5700 VA	80.00%	4560 VA		
O	Other	0 VA	0.00%	0 VA		

PANEL LEGEND

2MB1	2MC1	
1LA1	1LA2	
1LB1		

PANELBOARD SCHEDULE KEYED NOTE:

1. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
2. PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER
3. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUND FAULT PROTECTOR TYE CIRCUIT BREAKER.
4. PROVIDE SHUNT TRIP CIRCUIT BREAKER WITH 120 V COIL.
5. PROVIDE HACR RATED CIRCUIT BREAKER.
6. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
7. PROVIDE SWITCHING RATED CIRCUIT BREAKER.
8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LOCATED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING.
9. EXISTING LOAD

MHTN
ARCHITECTS
MHTN Architects, Inc.
420 East South Temple
Suite 100
Salt Lake City, Utah 84111
Telephone (801) 595-6700
Telefax (801) 595-6717
www.mhtn.com

ENVISION
ENGINEERING
240 E. MORRIS AVE, SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130
F (801) 534-1080
www.envisioneng.com

OGDEN SCHOOL DISTRICT
HORACE MANN ELEMENTARY SCHOOL - RFP 20-012
1300 9TH STREET
OGDEN, UTAH 84404

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SEAL

MHTN PROJECT NO. 2019505

Original drawing is 30 x 42. Do not scale contents of this drawing.

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NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
NOVEMBER 21, 2019

SHEET NAME
PANEL SCHEDULES

SHEET NUMBER
E-341

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PANELBOARD SCHEDULE

PANEL NAME: 1LB2

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 22K AIC

LOCATION: ELECTRICAL B118
MAIN TYPE: MCB
BUS RATING: 150 A
MCB RATING: 150 A
BUS MATERIAL: ALUMINUM

FEED FROM:
SPD: CAT 'A'
NEUTRAL RATING: 200%
ISOLATED GROUND: NONE

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RCPTS - LEARNING STUDIO...	20 A	1	R	1	720 VA	720 VA					2	R	1	20 A	RCPTS - LEARNING STUDIO...	
	RCPTS - LEARNING STUDIO...	20 A	1	R	3			720 VA	720 VA			4	R	1	20 A	RCPTS - LEARNING STUDIO...	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	5					360 VA	360 VA	6	R	1	20 A	A/V CAB. - LEARNING STUDIO...	
	RCPTS - LEARNING STUDIO...	20 A	1	R	7	720 VA	1080 VA					8	R	1	20 A	RCPTS - BOYS B116, STORAGE	
	RCPTS - LEARNING STUDIO...	20 A	1	R	9			720 VA	1080 VA			10	R	1	20 A	RCPTS - SPECIAL ED B122	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	11					360 VA	1260 VA	12	R	1	20 A	RCPTS - SPECIAL ED B122	
	RCPTS - LEARNING LAB B106	20 A	1	R	13	900 VA	360 VA					14	R	1	20 A	COLLABORATION B103 AV CAB.	
	RCPTS - LEARNING LAB B106	20 A	1	R	15			900 VA	360 VA			16	R	1	20 A	LEARNING LAB B106 AV CAB.	
	RCPTS - MAKER SPACE B107	20 A	1	R	17					180 VA	696 VA	18	M	1	20 A	CABINET UNIT HEATER...	
	RCPTS - MAKER SPACE B107	20 A	1	R	19	180 VA	360 VA					20	R	1	20 A	DISPLAY CASE	
	RCPTS - MAKER SPACE B107	20 A	1	R	21			360 VA	0 VA			22	M	1	20 A	VAV BOX TRANSFORMER	
	RCPTS - CORRIDOR B101	20 A	1	R	23					900 VA	0 VA	24	M	1	20 A	VAV BOX TRANSFORMER	
	RCPTS - TEACHER COLLAB....	20 A	1	R	25	900 VA	0 VA					26		1	20 A	-SPARE-	
	RCPTS - TEACHER COLLAB....	20 A	1	R	27			720 VA	0 VA			28		1	20 A	-SPARE-	
	RCPTS - THINK TANK B111	20 A	1	R	29					720 VA	0 VA	30		1	20 A	-SPARE-	
1	EWC - CORRIDOR B102	20 A	1	R	31	180 VA	0 VA					32		1	20 A	-SPARE-	
	RCPTS - CORRIDOR B102	20 A	1	R	33			1440 VA	0 VA			34		1	20 A	-SPARE-	
	RCPTS - STAIR-1 S-B1-1	20 A	1	R	35					360 VA	0 VA	36		1	20 A	-SPARE-	
	RCPTS - LEARNING STUDIO...	20 A	1	R	37	720 VA	0 VA					38		1	20 A	-SPARE-	
	RCPTS - LEARNING STUDIO...	20 A	1	R	39			540 VA	0 VA			40		1	20 A	-SPARE-	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	41					360 VA	0 VA	42		1	20 A	-SPARE-	
	-SPARE-	20 A	1		43	0 VA	0 VA					44		1	20 A	-SPARE-	
	-SPARE-	20 A	1		45			0 VA	0 VA			46		1	20 A	-SPARE-	
	-SPARE-	20 A	1		47					0 VA	0 VA	48		1	20 A	-SPARE-	
	-SPARE-	20 A	1		49	0 VA	0 VA					50		1	20 A	-SPARE-	
	-SPARE-	20 A	1		51			0 VA	0 VA			52		1	20 A	-SPARE-	
	-SPARE-	20 A	1		53					0 VA	0 VA	54		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					6840 VA		7560 VA		5556 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					59 A		65 A		46 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	19260 VA	75.96%	14630 VA	Total Conn. Load:	19956 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	15500 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	55 A
M	Motor	696 VA	125.00%	870 VA	Total Est. Demand Current:	43 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1LC2

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 22K AIC

LOCATION: ELECTRICAL C144
MAIN TYPE:
BUS RATING: 225 A
MCB RATING:
BUS MATERIAL:

FEED FROM:
SPD:
NEUTRAL RATING:
ISOLATED GROUND:

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	ATC PANEL	20 A	1	O	1	0 VA	0 VA					2		1	20 A	-SPARE-	
	WATER HEATER 'WH-1'	20 A	1	M	3			720 VA	0 VA			4		1	20 A	-SPARE-	
	WATER HEATER 'WH-2'	20 A	1	M	5					720 VA	0 VA	6		1	20 A	-SPARE-	
	WATER HEATER 'WH-3'	20 A	1	M	7	720 VA	0 VA					8		1	20 A	-SPARE-	
	WATER SOFTENER 'WS-1'	20 A	1	M	9			720 VA	0 VA			10		1	20 A	-SPARE-	
	BOILER 'B-1'	20 A	1	M	11					1920 VA	0 VA	12		1	20 A	-SPARE-	
	BOILER 'B-2'	20 A	1	M	13	1920 VA	0 VA					14		1	20 A	-SPARE-	
	RECIRCULATING PUMP 'DCP-1'	20 A	1	M	15			528 VA	0 VA			16		1	20 A	-SPARE-	
	RECIRCULATING PUMP 'DCP-2'	20 A	1	M	17					528 VA	0 VA	18		1	20 A	-SPARE-	
	UNIT HEATER 'C1.1'	20 A	1	M	19	528 VA	0 VA					20		1	20 A	-SPARE-	
	GLYCOL FEED UNIT 'GFU-1'	20 A	1	M	21			720 VA	0 VA			22		1	20 A	-SPARE-	
	-SPARE-	20 A	1		23					0 VA	0 VA	24		1	20 A	-SPARE-	
	-SPARE-	20 A	1		25	0 VA	0 VA					26		1	20 A	-SPARE-	
	-SPARE-	20 A	1		27			0 VA	0 VA			28		1	20 A	-SPARE-	
	-SPARE-	20 A	1		29					0 VA	0 VA	30		1	20 A	-SPARE-	
	-SPARE-	20 A	1		31	0 VA	0 VA					32		1	20 A	-SPARE-	
	-SPARE-	20 A	1		33			0 VA	0 VA			34		1	20 A	-SPARE-	
	-SPARE-	20 A	1		35					0 VA	0 VA	36		1	20 A	-SPARE-	
	-SPARE-	20 A	1		37	0 VA	0 VA					38		1	20 A	-SPARE-	
	-SPARE-	20 A	1		39			0 VA	0 VA			40		1	20 A	-SPARE-	
	-SPARE-	20 A	1		41					0 VA	0 VA	42		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					3168 VA		2688 VA		3168 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					27 A		22 A		27 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	0 VA	0.00%	0 VA	Total Conn. Load:	9024 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	9504 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	25 A
M	Motor	9024 VA	105.32%	9504 VA	Total Est. Demand Current:	26 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 2LA1

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DOOR TYPE:

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING:

LOCATION: ELECTRICAL A208
MAIN TYPE:
BUS RATING:
MCB RATING:
BUS MATERIAL: COPPER

FEED FROM: 1TA1
SPD:
NEUTRAL RATING:
ISOLATED GROUND:

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RCPTS - LEARNING STUDIO...	20 A	1	R	1	720 VA	720 VA					2	R	1	20 A	RCPTS - LEARNING STUDIO...	
	RCPTS - LEARNING STUDIO...	20 A	1	R	3			720 VA	360 VA			4	R	1	20 A	LEARNING STUDIO A233 A/V...	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	5					360 VA	528 VA	6	M	1	20 A	(EF-A2.2) EXHAUST FAN	
	RCPTS - LEARNING STUDIO...	20 A	1	R	7	720 VA	360 VA					8	R	1	20 A	RCPTS - STUDENT COLLAB....	
	RCPTS - LEARNING STUDIO...	20 A	1	R	9			720 VA	360 VA			10	R	1	20 A	RCPTS - STUDENT COLLAB....	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	11					360 VA	360 VA	12	R	1	20 A	A/V CAB. - STUDENT COLLAB....	
	RCPTS -STUDENT COLLAB. A207	20 A	1	R	13	900 VA	360 VA					14	R	1	20 A	RCPTS - CORRIDOR A201	
	RCPTS - THINK TANK A236	20 A	1	R	15			720 VA	528 VA			16	M	1	20 A	(EF-A2.1) EXHAUST FAN	
	RCPTS - TEACHER COLLAB....	20 A	1	R	17					720 VA	0 VA	18	M	1	20 A	VAV BOX TRANSFORMER	
	RCPTS - TEACHER COLLAB....	20 A	1	R	19	900 VA						20	M				
	RCPTS - FLEX ADMIN A240	20 A	1	R	21			900 VA				22	–				
1	EWC - STUDENT COLLAB. A207	20 A	1	R	23					600 VA		24					
	RCPTS - ROOF ACCESS A226	20 A	1	R	25	1260 VA						26					
	RCPTS - LEARNING STUDIO...	20 A	1	R	27			720 VA				28					
	RCPTS - LEARNING STUDIO...	20 A	1	R	29					720 VA		30					
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	31	360 VA						32					
	RCPTS - LEARNING STUDIO...	20 A	1	R	33			720 VA				34					
	-SPARE-	20 A	1		35					0 VA	0 VA	36		1	20 A	-SPARE-	
	-SPARE-	20 A	1		37	0 VA	0 VA					38		1	20 A	-SPARE-	
	-SPARE-	20 A	1		39			0 VA	0 VA			40		1	20 A	-SPARE-	
	-SPARE-	20 A	1		41					0 VA	0 VA	42		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					6300 VA		5748 VA		3648 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					55 A		51 A		30 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	14040 VA	85.61%	12020 VA	Total Conn. Load:	15696 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	13808 VA
E	Equipment	600 VA	100.00%	600 VA	Total Conn. Current:	44 A
M	Motor	1056 VA	112.50%	1188 VA	Total Est. Demand Current:	38 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1LC1

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
DOOR TYPE:

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING:

LOCATION: ELECTRICAL C144
MAIN TYPE:
BUS RATING: 225 A
MCB RATING:
BUS MATERIAL:

FEED FROM:
SPD:
NEUTRAL RATING:
ISOLATED GROUND:

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RCPTS - MULTIPURPOSE C124	20 A	1	R	1	720 VA	600 VA					2	E	1	20 A	GYM DRINKING FOUNTAIN	1
	RCPTS - MULTIPURPOSE C124	20 A	1	R	3			720 VA	360 VA			4		1	20 A	Receptacle	
	RCPTS - MULTIPURPOSE C124	20 A	1	R	5					720 VA	360 VA	6		1	20 A	Receptacle LEARNING STUDIO...	
				R	7		360 VA					8		1	20 A	Receptacle	
	O.H. DOOR - SERVING C100	20 A	1	E	9			0 VA	0 VA			10		1	20 A	Equipment	
				R	11						360 VA	12	R	1	20 A	RCPTS - HALL C136	
	RCPTS - ELECTRICAL-1 C100-1	20 A	1	R	13	900 VA	0 VA					14	E	1	20 A	MOTORIZED CURTAIN	
				R	15				0 VA			16	E	1	20 A	BASKETBALL HOOP	
	RCPTS - RECEIVING C100	20 A	1	R	17					1440 VA	0 VA	18	E	1	20 A	BASKETBALL HOOP	
	O.H. DOOR - RECEIVING C100	20 A	1	E	19	0 VA	0 VA					20	E	1	20 A	BASKETBALL HOOP	
	RCPTS - OFFICE C100	20 A	1	R	21			720 VA	0 VA			22	E	1	20 A	BASKETBALL HOOP	
	DRYER - LAUNDRY C100	30 A	2	E	23					2500 VA	0 VA	24		1	20 A	Motor AIR HANDLER C201	
–	–	–	–	–	25	2500 VA	0 VA					26	M	1	20 A	VAV BOX TRANSFORMER	
	WASHER - LAUNDRY C100	20 A	1	E	27			1500 VA	528 VA			28		1	20 A	Motor HALL C136	
	LTG. RCPT - ELEVATOR C100	20 A	1	R	29					488 VA	696 VA	30	M	1	20 A	DRYER BOOSTER FAN 'DBF-1'	
	-SPARE-	20 A	1		31	0 VA	0 VA					32		1	20 A	-SPARE-	
	-SPARE-	20 A	1		33			0 VA	0 VA			34		1	20 A	-SPARE-	
	-SPARE-	20 A	1		35					0 VA	0 VA	36		1	20 A	-SPARE-	
	-SPARE-	20 A	1		37	0 VA	0 VA					38		1	20 A	-SPARE-	
	-SPARE-	20 A	1		39			0 VA	0 VA			40		1	20 A	-SPARE-	
	-SPARE-	20 A	1		41					0 VA	0 VA	42		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					5080 VA		3828 VA		6564 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					44 A		32 A		56 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	7020 VA	100.00%	7020 VA	Total Conn. Load:	15472 VA
L	Lighting	128 VA	125.00%	160 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	15678 VA
E	Equipment	7100 VA	100.00%	7100 VA	Total Conn. Current:	43 A
M	Motor	1224 VA	114.22%	1398 VA	Total Est. Demand Current:	44 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1LC3

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 22K AIC

LOCATION: STORAGE C110
MAIN TYPE: MLO
BUS RATING: 100 A
MCB RATING: NONE
BUS MATERIAL: ALUMINUM

FEED FROM:
SPD: CAT 'A'
NEUTRAL RATING: 200%
ISOLATED GROUND: NONE

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RECEPTION C100 PRINTER	20 A	1	E	1	1000 VA	180 VA					2	R	1	20 A	STAGE PROJECTOR	
	RCPTS - BEHAVIOR OFFICE...	20 A	1	R	3			720 VA	900 VA			4	R	1	20 A	RCPTS - PLATFORM STRGE...	
	RCPTS - OFFICE-4 C100-4	20 A	1	R	5					720 VA	180 VA	6	R	1	20 A	RCPTS - CONFERENCE C111	
	RCPTS - OFFICE-3 C100-3	20 A	1	R	7	720 VA	0 VA					8	E	1	20 A	STAGE PROJECTOR SCREEN	
	RCPTS - CONFERENCE C100	20 A	1	R	9			720 VA	360 VA			10	R	1	20 A	ISLAND - WORK ROOM C109	
	RCPTS - COUNSELOR C100	20 A	1	R	11					1080 VA	0 VA	12	R	1	20 A	LEARNING STAIR OUTLETS	
	RCPTS - RECEPTION C100	20 A	1	R	13	900 VA	0 VA					14	R	1	20 A	LEARNING STAIR OUTLETS	
	COPIER - WORK ROOM C100	20 A	1	E	15			1500 VA	540 VA			16	R	1	20 A	RCPTS - RECEPTION C100	
	RCPTS - WORK ROOM C100	20 A	1	R	17					360 VA	528 VA	18	M	1	20 A	EXHAUST FAN 'C1.1'	
	RCPTS - WORK ROOM C100	20 A	1	R	19	360 VA	0 VA					20	M	1	20 A	Motor HALL C101	
	RCPTS - W/C-4 C100-4	20 A	1	R	21			900 VA	256 VA			22	L	1	20 A	LTG - RECEPTION PENDANTS	
	RCPTS - SICK ROOM C100	20 A	1	R	23					900 VA	0 VA	24		1	20 A	-SPARE-	
	RCPTS - HALL C101	20 A	1	R	25	360 VA	0 VA					26		1	20 A	-SPARE-	
	RCPTS - RECEPTION C106	20 A	1	R	27			540 VA	0 VA			28		1	20 A	-SPARE-	
	RCPTS - RECEPTION C106	20 A	1	R	29					540 VA	0 VA	30		1	20 A	-SPARE-	
	RCPTS - PLATFORM C122	20 A	1	R	31	900 VA	0 VA					32		1	20 A	-SPARE-	
	RCPTS - PLATFORM C122	20 A	1	R	33			360 VA	0 VA			34		1	20 A	-SPARE-	
	-SPARE-	20 A	1		35					0 VA	0 VA	36		1	20 A	-SPARE-	
	-SPARE-	20 A	1		37	0 VA	0 VA					38		1	20 A	-SPARE-	
	-SPARE-	20 A	1		39			0 VA	0 VA			40		1	20 A	-SPARE-	
	-SPARE-	20 A	1		41					0 VA	0 VA	42		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					4420 VA		6796 VA		4308 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					37 A		57 A		36 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	12240 VA	90.85%	11120 VA	Total Conn. Load:	15524 VA
L	Lighting	256 VA	125.00%	320 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	14600 VA
E	Equipment	2500 VA	100.00%	2500 VA	Total Conn. Current:	43 A
M	Motor	528 VA	125.00%	660 VA	Total Est. Demand Current:	41 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANEL LEGEND

	1LB2	1LC1
	1LC2	1LC3
	2LA1	

PANELBOARD SCHEDULE KEYED NOTE:

1. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
2. PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER
3. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUND FAULT PROTECTOR TYE CIRCUIT BREAKER.
4. PROVIDE SHUNT TRIP CIRCUIT BREAKER WITH 120 V COIL.
5. PROVIDE HACR RATED CIRCUIT BREAKER.
6. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
7. PROVIDE SWITCHING RATED CIRCUIT BREAKER.
8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LOCATED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING.
9. EXISTING LOAD

MHTN ARCHITECTS
MHTN Architects, Inc.
420 East South Temple
Suite 100
Salt Lake City, Utah 84111
Telephone (801) 595-6700
Telefax (801) 595-6717
www.mhtn.com

ENVISION ENGINEERING
240 E. MORRIS AVE. SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130
F (801) 534-1080
www.envisioneng.com

OGDEN SCHOOL DISTRICT
HORACE MANN ELEMENTARY SCHOOL - RFP 20-012

1300 9TH STREET
OGDEN, UTAH 84404

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SEAL

MHTN PROJECT NO. 2019505

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
NOVEMBER 21, 2019

SHEET NAME
PANEL SCHEDULES

SHEET NUMBER
E-342

PANELBOARD SCHEDULE

PANEL NAME: 2LB1

MOUNTING: SURFACE **ENCLOSURE:** TYPE 1 **DOOR TYPE:**
VOLTAGE: 120/208 Wye **PHASE:** 3 **WIRES:** 4 **Min. A.I.C. RATING:** 22K AIC
LOCATION: ELECTRICAL B222 **MAIN TYPE:** **BUS RATING:** 100 A **MCB RATING:** **BUS MATERIAL:**
FEED FROM: **SPD:** **NEUTRAL RATING:** **ISOLATED GROUND:**

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A	A	B	B	C	C	CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RCPTS - LEARNING STUDIO...	20 A	1	R	1	900 VA	360 VA					2	R	1	20 A	A/V CAB. - LEARNING STUDIO...	
	RCPTS - LEARNING STUDIO...	20 A	1	R	3			720 VA	720 VA			4	R	1	20 A	RCPTS - THINK TANK B233	
	RCPTS - CORRIDOR B201	20 A	1	R	5					540 VA	720 VA	6	R	1	20 A	RCPTS - TEACHER COLLAB....	
	RCPTS - STORAGE B224	20 A	1	R	7	1080 VA	900 VA					8	R	1	20 A	RCPTS - TEACHER COLLAB....	
1	EWC - CORRIDOR B200	20 A	1	R	9			600 VA	360 VA			10	R	1	20 A	A/V CAB. - CORRIDOR B224	
	RCPTS - LEARNING STUDIO...	20 A	1	R	11					720 VA	528 VA	12	M	1	20 A	EXHAUST FAN 'EF-B2.3'	
	RCPTS - LEARNING STUDIO...	20 A	1	R	13	720 VA	360 VA					14	R	1	20 A	RCPTS - CORRIDOR	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	15			360 VA	0 VA			16		1	20 A	-SPARE-	
	RCPTS - LEARNING STUDIO...	20 A	1	R	17					720 VA	0 VA	18		1	20 A	-SPARE-	
	RCPTS - LEARNING STUDIO...	20 A	1	R	19	720 VA	0 VA					20		1	20 A	-SPARE-	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	21			360 VA	0 VA			22		1	20 A	-SPARE-	
	RCPTS - CORRIDOR B200	20 A	1	R	23					1620 VA	0 VA	24		1	20 A	-SPARE-	
	RCPTS - LEARNING STUDIO...	20 A	1	R	25	720 VA	0 VA					26		1	20 A	-SPARE-	
	RCPTS - LEARNING STUDIO...	20 A	1	R	27			720 VA	0 VA			28		1	20 A	-SPARE-	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	29					360 VA	0 VA	30		1	20 A	-SPARE-	
	RCPTS - LEARNING STUDIO...	20 A	1	R	31	720 VA	0 VA					32		1	20 A	-SPARE-	
	RCPTS - LEARNING STUDIO...	20 A	1	R	33			720 VA	0 VA			34		1	20 A	-SPARE-	
	Receptade AIR HANDLER B236	20 A	1		35					540 VA	250 VA	36		1	20 A	AIR HANDLER LTG 'AH-1'	
	Motor CORRIDOR B224	20 A	1		37	0 VA	250 VA					38		1	20 A	AIR HANDLER LTG 'AH-3'	
	Motor AIR HANDLER C201	20 A	1		39			0 VA	240 VA			40		1	20 A	TRAP PRIMER 'TP-1'	
	-SPARE-	20 A	1		41					0 VA	528 VA	42		1	20 A	EXHAUST FAN 'EF-B2.5'	
	-SPARE-	20 A	1		43	0 VA	528 VA					44		1	20 A	UNIT HEATER 'UH-2.1'	
	-SPARE-	20 A	1		45			0 VA	100 VA			46		1	20 A	ATC PANEL	
	-SPARE-	20 A	1		47					0 VA	528 VA	48		1	20 A	EXHAUST FAN 'EF-2.3'	
	-SPARE-	20 A	1		49	0 VA	1176 VA					50		1	20 A	EVAP COOLER 'EC-AH-1'	
	-SPARE-	20 A	1		51			0 VA	1176 VA			52		1	20 A	EVAP COOLER 'EC-AH-3'	
	-SPARE-	20 A	1		53					0 VA	0 VA	54		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					8434 VA		6076 VA		7054 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					72 A		51 A		60 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptade	15660 VA	81.93%	12830 VA	Total Conn. Load:	21564 VA
L	Lighting	500 VA	125.00%	625 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	19153 VA
E	Equipment	600 VA	100.00%	600 VA	Total Conn. Current:	60 A
M	Motor	4804 VA	106.12%	5098 VA	Total Est. Demand Current:	53 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 2LB2

MOUNTING: SURFACE **ENCLOSURE:** TYPE 1 **DOOR TYPE:** DOOR-IN-DOOR
VOLTAGE: 120/208 Wye **PHASE:** 3 **WIRES:** 4 **Min. A.I.C. RATING:** 22K AIC
LOCATION: ELECTRICAL B216 **MAIN TYPE:** **BUS RATING:** 100 A **MCB RATING:** **BUS MATERIAL:**
FEED FROM: 1LB2 **SPD:** **NEUTRAL RATING:** **ISOLATED GROUND:**

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A	A	B	B	C	C	CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RCPTS - LEARNING STUDIO...	20 A	1	R	1	720 VA	360 VA					2	R	1	20 A	RCPTS - LEARNING STUDIO...	
	RCPTS - LEARNING STUDIO...	20 A	1	R	3			720 VA	720 VA			4	R	1	20 A	RCPTS - LEARNING STUDIO...	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	5					360 VA	720 VA	6	R	1	20 A	RCPTS - LEARNING STUDIO...	
	RCPTS - LEARNING STUDIO...	20 A	1	R	7	720 VA	360 VA					8	R	1	20 A	A/V CAB. - LEARNING STUDIO...	
	RCPTS - LEARNING STUDIO...	20 A	1	R	9			720 VA	900 VA			10	R	1	20 A	RCPTS - LEARNING STUDIO...	
	A/V CAB. - LEARNING STUDIO...	20 A	1	R	11					360 VA	900 VA	12	R	1	20 A	RCPTS - LEARNING STUDIO...	
	RCPTS - MEDIA CENTER B206	20 A	1	R	13	540 VA	540 VA					14	R	1	20 A	RCPTS - AIR HANDLER C222	
	RCPTS - CORRIDOR B201	20 A	1	R	15			720 VA	900 VA			16	R	1	20 A	RCPTS - WORKROOM C223	
	RCPTS - W/C B208	20 A	1	R	17					360 VA	360 VA	18	R	1	20 A	RCPTS - WORKROOM C203	
	RCPTS - GIRLS B218, BOYS B216	20 A	1	R	19	1080 VA	720 VA					20	R	1	20 A	RCPTS - SITE TECH C221	
	RCPTS - TEACHER COLLAB....	20 A	1	R	21			900 VA	0 VA			22	O	1	20 A	ELEVATOR FIRE ALARM	
	RCPTS - TEACHER COLLAB....	20 A	1	R	23					720 VA	0 VA	24	O	1	20 A	AIR HANDLER FIRE ALARM	
	RCPTS - THINK TANK B211	20 A	1	R	25	720 VA	1500 VA					26	E	1	20 A	WORKROOM C203 COPIER	
1	EWC - CORRIDOR B202	20 A	1	R	27			600 VA	1500 VA			28	E	1	20 A	WORKROOM C203 COPIER	
	RCPTS - CORRIDOR B202	20 A	1	R	29					1620 VA	360 VA	30	R	1	20 A	RCPTS - CORRIDOR	
	RCPTS - LEARNING STUDIO...	20 A	1	R	31	720 VA	360 VA					32	R	1	20 A	A/V CABINET - STUDENT...	
	RCPTS - LEARNING STUDIO...	20 A	1	R	33			720 VA	528 VA			34	M	1	20 A	EXHAUST FAN 'EF-B2.1'	
	VAV BOX TRANSFORMER	20 A	1	M	35					0 VA	528 VA	36	M	1	20 A	EXHAUST FAN 'EF-B2.2'	
	VAV BOX TRANSFORMER	20 A	1	M	37	0 VA	480 VA					38	M	1	20 A	TRAP PRIMER 'TP-1'	
	-SPARE-	20 A	1		39			0 VA	250 VA			40	L	1	20 A	AH-4 LIGHTING	
	-SPARE-	20 A	1		41					0 VA	100 VA	42	O	1	20 A	ATC PANEL	
	-SPARE-	20 A	1		43	0 VA	528 VA					44	M	1	20 A	UNIT HEATER 'UH-C2.1'	
	-SPARE-	20 A	1		45			0 VA	1176 VA			46	M	1	20 A	EVAP COOLER 'EC-AH-2'	
	-SPARE-	20 A	1		47					0 VA	250 VA	48	L	1	20 A	AH-2 LIGHTING	
	-SPARE-	20 A	1		49	0 VA	0 VA					50		1	20 A	-SPARE-	
	-SPARE-	20 A	1		51			0 VA	0 VA			52		1	20 A	-SPARE-	
	-SPARE-	20 A	1		53					0 VA	0 VA	54		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					9348 VA		10354 VA		6638 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					81 A		90 A		55 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptade	18900 VA	76.46%	14450 VA	Total Conn. Load:	26340 VA
L	Lighting	500 VA	125.00%	625 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	22309 VA
E	Equipment	3600 VA	100.00%	3600 VA	Total Conn. Current:	73 A
M	Motor	3340 VA	108.80%	3634 VA	Total Est. Demand Current:	62 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1EHA1

MOUNTING: SURFACE **ENCLOSURE:** TYPE 1 **DOOR TYPE:**
VOLTAGE: 480/277 Wye **PHASE:** 3 **WIRES:** 4 **Min. A.I.C. RATING:**
LOCATION: ELECTRICAL A141 **MAIN TYPE:** **BUS RATING:** 225 A **MCB RATING:** **BUS MATERIAL:**
FEED FROM: **SPD:** **NEUTRAL RATING:** **ISOLATED GROUND:**

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A	B	C	CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	EM LTG - LEVEL 1 AREA A	20 A	1	L	1	505 VA			2					
	EM LTG - LEVEL 2 AREA A	20 A	1	L	3		652 VA		4					
	Lighting	20 A	1		5			480 VA	6					
					7				8					
					9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
	TOTAL CONNECTED LOAD PER PHASE (VA)					505 VA	652 VA	480 VA						
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					2 A	2 A	2 A						

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptade	0 VA	0.00%	0 VA	Total Conn. Load:	1637 VA
L	Lighting	1637 VA	125.00%	2046 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	2046 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	2 A
M	Motor	0 VA	0.00%	0 VA	Total Est. Demand Current:	2 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1EHA2

MOUNTING: SURFACE **ENCLOSURE:** TYPE 1 **DOOR TYPE:**
VOLTAGE: 480/277 Wye **PHASE:** 3 **WIRES:** 4 **Min. A.I.C. RATING:**
LOCATION: ELECTRICAL A109 **MAIN TYPE:** **BUS RATING:** 400 A **MCB RATING:** **BUS MATERIAL:**
FEED FROM: **SPD:** **NEUTRAL RATING:** **ISOLATED GROUND:**

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A	B	C	CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	EM LTG - LEVEL 1 AREA A	20 A	1	L	1	701 VA			2					
					3				4					
					5				6					
					7				8					
					9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
	TOTAL CONNECTED LOAD PER PHASE (VA)					701 VA	0 VA	0 VA						
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					3 A	0 A	0 A						

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptade	0 VA	0.00%	0 VA	Total Conn. Load:	701 VA
L	Lighting	701 VA	125.00%	876 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	876 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	1 A
M	Motor	0 VA	0.00%	0 VA	Total Est. Demand Current:	1 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1EHB1

MOUNTING: SURFACE **ENCLOSURE:** TYPE 1 **DOOR TYPE:**
VOLTAGE: 480/277 Wye **PHASE:** 3 **WIRES:** 4 **Min. A.I.C. RATING:**
LOCATION: ELECTRICAL B118 **MAIN TYPE:** **BUS RATING:** 125 A **MCB RATING:** **BUS MATERIAL:**
FEED FROM: **SPD:** **NEUTRAL RATING:** **ISOLATED GROUND:**

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A	B	C	CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	EM LTG - LEVEL 1 AREA B	20 A	1	L	1	424 VA			2					
	EM LTG - LEVEL 2 AREA B	20 A	1	L	3		460 VA		4					
					5				6					
					7				8					
					9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
	TOTAL CONNECTED LOAD PER PHASE (VA)					424 VA	460 VA	0 VA						
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					2 A	2 A	0 A						

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptade	0 VA	0.00%	0 VA	Total Conn. Load:	884 VA
L	Lighting	884 VA	125.00%	1105 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	1105 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	1 A
M	Motor	0 VA	0.00%	0 VA	Total Est. Demand Current:	1 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1EHB2

MOUNTING: SURFACE **ENCLOSURE:** TYPE 1 **DOOR TYPE:**
VOLTAGE: 480/277 Wye **PHASE:** 3 **WIRES:** 4 **Min. A.I.C. RATING:**
LOCATION: ELECTRICAL B138 **MAIN TYPE:** **BUS RATING:** 100 A **MCB RATING:** **BUS MATERIAL:**
FEED FROM: **SPD:** **NEUTRAL RATING:** **ISOLATED GROUND:**

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A	B	C	CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	EM LTG - LEVEL 1 AREA B	20 A	1	L	1	584 VA			2					
	EM LTG - LEVEL 2 AREA B	20 A	1	L	3		620 VA		4					
	EM LTG-	20 A	1	L	5			320 VA	6					
	EM LTG - LEVEL 1 CORRIDOR	20 A	1	L	7	64 VA			8					
					9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
	TOTAL CONNECTED LOAD PER PHASE (VA)					648 VA	620 VA	320 VA						
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					3 A	2 A	1 A						

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptade	0 VA	0.00%	0 VA	Total Conn. Load:	1588 VA
L	Lighting	1588 VA	125.00%	1985 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	1985 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	2 A
M	Motor	0 VA	0.00%	0 VA	Total Est. Demand Current:	2 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANEL LEGEND

	2LB1	2LB2
	1EHA1	1EHA2
	1EHB1	1EHB2

PANELBOARD SCHEDULE KEYED NOTE:

1. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
2. PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER
3. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUND FAULT PROTECTOR TYE CIRCUIT BREAKER.
4. PROVIDE SHUNT TRIP CIRCUIT BREAKER WITH 120 V COIL.
5. PROVIDE HACR RATED CIRCUIT BREAKER.
6. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
7. PROVIDE SWITCHING RATED CIRCUIT BREAKER.
8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LOCATED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING.
9. EXISTING LOAD

MHTN ARCHITECTS
MHTN Architects, Inc.
420 East South Temple
Suite 100
Salt Lake City, Utah 84111
Telephone (801) 595-6700
Telefax (801) 595-6717
www.mhtn.com

ENVISION ENGINEERING
240 E. MORRIS AVE. SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130
F (801) 534-1080
www.envisioneng.com

OGDEN SCHOOL DISTRICT
HORACE MANN ELEMENTARY SCHOOL - RFP 20-012
1300 9TH STREET
OGDEN, UTAH 84404

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SEAL

MHTN PROJECT NO. 2019505

Original drawing is 30 x 42. Do not scale contents of this drawing.

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NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
NOVEMBER 21, 2019

SHEET NAME
PANEL SCHEDULES

SHEET NUMBER
E-343

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PANELBOARD SCHEDULE

PANEL NAME: 1EHC1

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
DOOR TYPE:

VOLTAGE: 480/277 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING:

LOCATION: ELECTRICAL C143
MAIN TYPE:
BUS RATING: 250 A
MCB RATING:
BUS MATERIAL:

FEED FROM:
SPD:
NEUTRAL RATING:
ISOLATED GROUND:

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	EM LTG - LEVEL 1 AREA C	20 A	1	L	1	582 VA						2					
	EM LTG - LEVEL 2 AREA C	20 A	1	L	3			500 VA				4					
					5							6					
					7							8					
					9							10					
					11							12					
					13							14					
					15							16					
					17							18					
					19							20					
					21							22					
					23							24					
					25							26					
					27							28					
					29							30					
					31							32					
					33							34					
					35							36					
					37							38					
					39							40					
					41							42					
	TOTAL CONNECTED LOAD PER PHASE (VA)					582 VA		500 VA		0 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					2 A		2 A		0 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	0 VA	0.00%	0 VA	Total Conn. Load:	1082 VA
L	Lighting	1082 VA	125.00%	1353 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	1353 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	1 A
M	Motor	0 VA	0.00%	0 VA	Total Est. Demand Current:	2 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1SLA1

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 22K AIC

LOCATION: ELECTRICAL A109
MAIN TYPE: MCB
BUS RATING: 150 A
MCB RATING: 110 A
BUS MATERIAL: ALUMINUM

FEED FROM: T-S5
SPD: CAT 'A'
NEUTRAL RATING: 200%
ISOLATED GROUND: NONE

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RCPT - IDF A110	20 A	1	R	1	360 VA	1080 VA					2	R	1	20 A	RCPTS - PRINCIPAL OFFICE...	
	RACK OUTLET - IDF A110	20 A	1	R	3			360 VA	0 VA			4	R	1	20 A	FLR BOX - PRINC. OFFICE C105	
	RACK OUTLET - IDF A110	20 A	1	R	5					360 VA		6					
	RCPT - IDF A110	20 A	1	R	7	360 VA						8					
	SPLIT SYSTEM 'AC-1A'	20 A	2	M	9			1352 VA				10					
–	–	–	–	–	11					1352 VA		12					
					13							14					
					15							16					
					17							18					
					19							20					
					21							22					
					23							24					
					25							26					
					27							28					
					29							30					
					31							32					
					33							34					
					35							36					
					37							38					
					39							40					
					41							42					
	TOTAL CONNECTED LOAD PER PHASE (VA)					1800 VA		1712 VA		1712 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					15 A		14 A		14 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	2520 VA	100.00%	2520 VA	Total Conn. Load:	5224 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	5900 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	15 A
M	Motor	2704 VA	125.00%	3380 VA	Total Est. Demand Current:	16 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 2SLA1

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 22K AIC

LOCATION: ELECTRICAL A208
MAIN TYPE: MCB
BUS RATING: 150 A
MCB RATING: 110 A
BUS MATERIAL: ALUMINUM

FEED FROM: T-S4
SPD: CAT 'A'
NEUTRAL RATING: 200%
ISOLATED GROUND: NONE

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RACK OUTLET - MDF A228	20 A	1	R	1	360 VA	0 VA					2		1	20 A	-SPARE-	
	RACK OUTLET - MDF A228	20 A	1	R	3			360 VA	0 VA			4		1	20 A	-SPARE-	
	RACK OUTLET - MDF A228	20 A	1	R	5					360 VA	0 VA	6		1	20 A	-SPARE-	
	RACK OUTLET - MDF A228	20 A	1	R	7	360 VA	0 VA					8		1	20 A	-SPARE-	
	RCPT - MDF A228	20 A	1	R	9			360 VA	0 VA			10		1	20 A	-SPARE-	
	RCPT - MDF A228	20 A	1	R	11					360 VA	0 VA	12		1	20 A	-SPARE-	
	SPLIT SYSTEM 'AC-2A'	20 A	2	M	13	1352 VA	0 VA					14		1	20 A	-SPARE-	
–	–	–	–	–	15			1352 VA	0 VA			16		1	20 A	-SPARE-	
	-SPARE-	20 A	1		17					0 VA	0 VA	18		1	20 A	-SPARE-	
	-SPARE-	20 A	1		19	0 VA	0 VA					20		1	20 A	-SPARE-	
	-SPARE-	20 A	1		21			0 VA	0 VA			22		1	20 A	-SPARE-	
	-SPARE-	20 A	1		23					0 VA	0 VA	24		1	20 A	-SPARE-	
	-SPARE-	20 A	1		25	0 VA	0 VA					26		1	20 A	-SPARE-	
	-SPARE-	20 A	1		27			0 VA	0 VA			28		1	20 A	-SPARE-	
	-SPARE-	20 A	1		29					0 VA	0 VA	30		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					2072 VA		2072 VA		720 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					19 A		19 A		6 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	2160 VA	100.00%	2160 VA	Total Conn. Load:	4864 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	5540 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	14 A
M	Motor	2704 VA	125.00%	3380 VA	Total Est. Demand Current:	15 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 2SLB1

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
DOOR TYPE:

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING:

LOCATION: ELECTRICAL B222
MAIN TYPE:
BUS RATING: 225 A
MCB RATING:
BUS MATERIAL:

FEED FROM: T-S2
SPD:
NEUTRAL RATING:
ISOLATED GROUND:

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RCPT - IDF B225	20 A	1	R	1	360 VA						2					
	RACK OUTLET - IDF B225	20 A	1	R	3			360 VA				4					
	RACK OUTLET - IDF B225	20 A	1	R	5					360 VA		6					
	RCPT - IDF B225	20 A	1	R	7	360 VA						8					
	SPLIT SYSTEM 'AC-1B'	20 A	2	M	9			1352 VA				10					
–	–	–	–	–	11					1352 VA		12					
					13							14					
					15							16					
					17							18					
					19							20					
					21							22					
					23							24					
					25							26					
					27							28					
	TOTAL CONNECTED LOAD PER PHASE (VA)					720 VA		1712 VA		1712 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					6 A		16 A		16 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	1440 VA	100.00%	1440 VA	Total Conn. Load:	4144 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	4820 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	12 A
M	Motor	2704 VA	125.00%	3380 VA	Total Est. Demand Current:	13 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 2SLB2

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 22K AIC

LOCATION: ELECTRICAL B216
MAIN TYPE:
BUS RATING: 225 A
MCB RATING:
BUS MATERIAL:

FEED FROM: T-S3
SPD:
NEUTRAL RATING:
ISOLATED GROUND:

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	RCPT - IDF B220	20 A	1	R	1	360 VA	0 VA					2		1	20 A	-SPARE-	
	RACK OUTLET - IDF B220	20 A	1	R	3			360 VA	0 VA			4		1	20 A	-SPARE-	
	RACK OUTLET - IDF B220	20 A	1	R	5					360 VA	0 VA	6		1	20 A	-SPARE-	
	RCPT - IDF B220	20 A	1	R	7	360 VA	0 VA					8		1	20 A	-SPARE-	
	SPLIT SYSTEM 'AC-2B'	20 A	2	M	9			1352 VA	0 VA			10		1	20 A	-SPARE-	
–	–	–	–	–	11					1352 VA	0 VA	12		1	20 A	-SPARE-	
	-SPARE-	20 A	1		13	0 VA	0 VA					14		1	20 A	-SPARE-	
	-SPARE-	20 A	1		15			0 VA	0 VA			16		1	20 A	-SPARE-	
	-SPARE-	20 A	1		17					0 VA	0 VA	18		1	20 A	-SPARE-	
	-SPARE-	20 A	1		19	0 VA	0 VA					20		1	20 A	-SPARE-	
	-SPARE-	20 A	1		21			0 VA	0 VA			22		1	20 A	-SPARE-	
	-SPARE-	20 A	1		23					0 VA	0 VA	24		1	20 A	-SPARE-	
	-SPARE-	20 A	1		25	0 VA	0 VA					26		1	20 A	-SPARE-	
	-SPARE-	20 A	1		27			0 VA	0 VA			28		1	20 A	-SPARE-	
	-SPARE-	20 A	1		29					0 VA	0 VA	30		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					720 VA		1712 VA		1712 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					6 A		16 A		16 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	1440 VA	100.00%	1440 VA	Total Conn. Load:	4144 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	4820 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	12 A
M	Motor	2704 VA	125.00%	3380 VA	Total Est. Demand Current:	13 A
K	Kitchen	0 VA	0.00%	0 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: 1SLC1

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
DOOR TYPE:

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING:

LOCATION: ELECTRICAL C143
MAIN TYPE:
BUS RATING: 250 A
MCB RATING:
BUS MATERIAL:

FEED FROM:
SPD:
NEUTRAL RATING:
ISOLATED GROUND:

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A		B		C		CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	(E-01) COOLER CONDENSER	20 A	3	K	1	1129 VA	0 VA					2		1	20 A	-SPARE-	
–	–	–	–	–	3			1129 VA	0 VA			4		1	20 A	-SPARE-	
–	–	–	–	–	5					1129 VA	0 VA	6		1	20 A	-SPARE-	
	(E-02) COOLER BLOWER COILS	20 A	1	K	7	192 VA	0 VA					8		1	20 A	-SPARE-	
	(E-03A) TEMPERATURE...	20 A	1	K	9			240 VA	0 VA			10		1	20 A	-SPARE-	
	(E-04) COOLER HEAT & LIGHTS	20 A	1	K	11					211 VA	0 VA	12		1	20 A	-SPARE-	
	(E-05) FREEZER CONDENSER	20 A	3	K	13	1477 VA	0 VA					14		1	20 A	-SPARE-	
–	–	–	–	–	15			1477 VA	0 VA			16		1	20 A	-SPARE-	
–	–	–	–	–	17					1477 VA	0 VA	18		1	20 A	-SPARE-	
	(E-06) FREEZER BLOWER COILS	20 A	2	K	19	104 VA	0 VA					20		1	20 A	-SPARE-	
–	–	–	–	–	21			104 VA	0 VA			22		1	20 A	-SPARE-	
	(E-07) FREEZER DEFROST	20 A	2	K	23					1019 VA	0 VA	24		1	20 A	-SPARE-	
–	–	–	–	–	25	1019 VA	0 VA					26		1	20 A	-SPARE-	
	(E-07A) FREEZER HEAT TRACE	20 A	1	K	27			360 VA	0 VA			28		1	20 A	-SPARE-	
	(E-08A) TEMPERATURE...	20 A	1	K	29					240 VA	0 VA	30		1	20 A	-SPARE-	
	(E-09) FREEZER HEAT & LIGHTS	20 A	1	K	31	275 VA	0 VA					32		1	20 A	-SPARE-	
	-SPARE-	20 A	1		33			0 VA	0 VA			34		1	20 A	-SPARE-	
	-SPARE-	20 A	1		35					0 VA	0 VA	36		1	20 A	-SPARE-	
	-SPARE-	20 A	1		37	0 VA	0 VA					38		1	20 A	-SPARE-	
	-SPARE-	20 A	1		39			0 VA	0 VA			40		1	20 A	-SPARE-	
	-SPARE-	20 A	1		41					0 VA	0 VA	42		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					4196 VA		3310 VA		4076 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					36 A		28 A		35 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	0 VA	0.00%	0 VA	Total Conn. Load:	11582 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	7528 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	32 A
M	Motor	0 VA	0.00%	0 VA	Total Est. Demand Current:	21 A
K	Kitchen	11582 VA	65.00%	7528 VA		
O	Other	0 VA	0.00%	0 VA		

PANEL LEGEND

	1EHC1	1SLA1
	2SLA1	2SLB1
	2SLB2	

PANELBOARD SCHEDULE KEYED NOTE:

1. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
2. PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER
3. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUND FAULT PROTECTOR TYE CIRCUIT BREAKER.
4. PROVIDE SHUNT TRIP CIRCUIT BREAKER WITH 120 V COIL.
5. PROVIDE HACR RATED CIRCUIT BREAKER.
6. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
7. PROVIDE SWITCHING RATED CIRCUIT BREAKER.
8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LOCATED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING.
9. EXISTING LOAD

MHTN ARCHITECTS
MHTN Architects, Inc.
420 East South Temple
Suite 100
Salt Lake City, Utah 84111
Telephone (801) 595-6700
Telefax (801) 595-6717
www.mhtn.com

ENVISION ENGINEERING
240 E. MORRIS AVE. SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130
F (801) 534-1080
www.envisioneng.com

OGDEN SCHOOL DISTRICT
HORACE MANN ELEMENTARY SCHOOL - RFP 20-012
1300 9TH STREET
OGDEN, UTAH 84404

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SEAL

MHTN PROJECT NO. 2019505

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NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
NOVEMBER 21, 2019

SHEET NAME
PANEL SCHEDULES

SHEET NUMBER
E-344

MECHANICAL EQUIPMENT SCHEDULE

UNIT NAME TYPE	No.	DESCRIPTION	ELECTRICAL INPUT LOAD	TYPE	VOLTS	PHASE	AMPS	FEEDER QTY	CONDUIT SIZE	WIRE QTY	WIRE SIZE	EQPT GND	NOTE	STARTER SIZE	OCP SIZE	OCP POLES	DISCONNECT SIZE	DISCONNECT POLES	ENCLOSURE	REMARKS
AC	1A	SPLIT SYSTEM	13	MCA	208 V	1	13 A	1	3/4"	2	12	12	10A	-	20	2	30	2	NEMA 3R	
AC	1B	SPLIT SYSTEM	13	MCA	208 V	1	13 A	1	3/4"	2	12	12	10A	-	20	2	30	2	NEMA 3R	
AC	1C	SPLIT SYSTEM	13	MCA	208 V	1	13 A	1	3/4"	2	12	12	10A	-	20	2	30	2	NEMA 3R	
AC	2A	SPLIT SYSTEM	13	MCA	208 V	1	13 A	1	3/4"	2	12	12	10A	-	20	2	30	2	NEMA 3R	
AC	2B	SPLIT SYSTEM	13	MCA	208 V	1	13 A	1	3/4"	2	12	12	10A	-	20	2	30	2	NEMA 3R	
AH	1	AIR HANDLER LIGHTS	0.25	KVA	120 V	1	2.1 A	1	3/4"	2	12	12	12A	-	-	-	-	-	-	
AH	2	AIR HANDLER LIGHTS	0.25	KVA	120 V	1	2.1 A	1	3/4"	2	12	12	12A	-	-	-	-	-	-	
AH	3	AIR HANDLER LIGHTS	0.25	KVA	120 V	1	2.1 A	1	3/4"	2	12	12	12A	-	-	-	-	-	-	
AH	4	AIR HANDLER LIGHTS	0.25	KVA	120 V	1	2.1 A	1	3/4"	2	12	12	12A	-	-	-	-	-	-	
B	1	BOILER	16	FLA	120 V	1	16 A	1	3/4"	2	12	12	9A	-	-	-	30	1	NEMA 1	
B	2	BOILER	16	FLA	120 V	1	16 A	1	3/4"	2	12	12	9A	-	-	-	30	1	NEMA 1	
CT	1	COOLING TOWER	10	HP	480 V	3	14 A	1	3/4"	3	10	10	10A	-	20	3	30	3	NEMA 3R	
CU	C1A	CONDENSING UNIT	22	MCA	480 V	3	22 A	1	3/4"	3	8	10	10A	-	25	3	30	3	NEMA 3R	
CU	C1B	CONDENSING UNIT	22	MCA	480 V	3	22 A	1	3/4"	3	8	10	10A	-	25	3	30	3	NEMA 3R	
CUH	A1.1	CABINET UNIT HEATER	0.25	HP	120 V	1	5.8 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
CUH	A1.2	CABINET UNIT HEATER	0.25	HP	120 V	1	5.8 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
CUH	A1.3	CABINET UNIT HEATER	0.25	HP	120 V	1	5.8 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
CUH	A1.4	CABINET UNIT HEATER	0.25	HP	120 V	1	5.8 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
CUH	A1.5	CABINET UNIT HEATER	0.25	HP	120 V	1	5.8 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
CUH	B1.1	CABINET UNIT HEATER	0.25	HP	120 V	1	5.8 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
CUH	B1.2	CABINET UNIT HEATER	0.25	HP	120 V	1	5.8 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
DBF	1	DRYER BOOSTER FAN	0.25	HP	120 V	1	5.8 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
DCP	1	DOMESTIC RECIRCULATING PUMP	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
DCP	2	DOMESTIC RECIRCULATING PUMP	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
EC	AH-1	EVAPORATIVE COOLER	0.5	HP	120 V	1	9.8 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
EC	AH-2	EVAPORATIVE COOLER	0.5	HP	120 V	1	9.8 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
EC	AH-3	EVAPORATIVE COOLER	0.5	HP	120 V	1	9.8 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
EF	A1.1	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	
EF	A1.2	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	
EF	A1.3	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	
EF	A1.4	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	
EF	A1.5	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
EF	A2.1	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	ON ROOF
EF	A2.2	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
EF	B2.1	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	ON ROOF
EF	B2.2	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	
EF	B2.3	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	
EF	B2.4	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	(ON ROOF)
EF	B2.5	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	
EF	C1.1	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	
EF	C1.2	EXHAUST FAN	0.25	HP	120 V	1	5.8 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	
EF	C1.3 A	EXHAUST FAN	1.5	HP	480 V	3	3 A	1	3/4"	3	12	12	10A	-	10	3	30	3	NEMA 3R	
EF	C1.3 B	EXHAUST FAN	1.5	HP	480 V	3	3 A	1	3/4"	3	12	12	10A	-	10	3	30	3	NEMA 3R	
EF	C1.4	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	
EF	C1.5	EXHAUST FAN	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 3R	
GFU	1	GLYCOL FEED UNIT	6	FLA	120 V	1	6 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
MAU	1	MAKE-UP AIR UNIT	5	HP	480 V	3	7.6 A	1	3/4"	3	12	12	10A	-	10	3	30	3	NEMA 3R	
P	1	PUMP	20	HP	480 V	3	27 A	1	1"	3	8	10	5A	-	35	3	60	3	NEMA 1	
P	2	PUMP	20	HP	480 V	3	27 A	1	1"	3	8	10	5A	-	35	3	60	3	NEMA 1	
P	3	PUMP	15	HP	480 V	3	21 A	1	1"	3	8	10	5A	-	30	3	30	3	NEMA 1	
P	4	PUMP	15	HP	480 V	3	21 A	1	1"	3	8	10	5A	-	30	3	30	3	NEMA 1	
RF	1	AIR HANDLER RELEIF FAN	15	HP	480 V	3	21 A	1	1"	3	8	10	5B	-	-	-	-	-	NEMA 1	
RF	2	AIR HANDLER RELEIF FAN	30	HP	480 V	3	40 A	1	1-1/4"	3	4	8	5B	-	-	-	-	-	NEMA 1	
RF	3	AIR HANDLER RELEIF FAN	10	HP	480 V	3	14 A	1	3/4"	3	10	10	5B	-	-	-	-	-	NEMA 1	
RF	4	AIR HANDLER RELEIF FAN	3	HP	480 V	3	4.8 A	1	3/4"	3	12	12	5B	-	-	-	-	-	NEMA 1	
SF	1	AIR HANDLER SUPPLY FAN	30	HP	480 V	3	40 A	1	1-1/4"	3	4	8	5B	-	-	-	-	-	NEMA 1	
SF	2	AIR HANDLER SUPPLY FAN			480 V	3		1	3/4"	3			5B	-	-	-	-	-	NEMA 1	
SF	3	AIR HANDLER SUPPLY FAN	10	HP	480 V	3	14 A	1	3/4"	3	10	10	5B	-	-	-	-	-	NEMA 1	
SF	4	AIR HANDLER SUPPLY FAN	5	HP	480 V	3	7.6 A	1	3/4"	3	12	12	5B	-	-	-	-	-	NEMA 1	
TP	1	TRAP PRIMER	2	FLA	120 V	1	2 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
UH	B2.1	UNIT HEATER	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
UH	C1.1	UNIT HEATER	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
UH	C2.1	UNIT HEATER	0.1667	HP	120 V	1	4.4 A	1	3/4"	2	12	12	1A	-	1 HP	1	-	-	NEMA 1	
WH	1	GAS FIRED WATER HEATER	6	FLA	120 V	1	6 A	1	3/4"	2	12	12	16A	-	-	-	-	-	NEMA 1	
WH	2	GAS FIRED WATER HEATER	6	FLA	120 V	1	6 A	1	3/4"	2	12	12	16A	-	-	-	-	-	NEMA 1	
WH	3	GAS FIRED WATER HEATER	6	FLA	120 V	1	6 A	1	3/4"	2	12	12	16A	-	-	-	-	-	NEMA 1	
WS	1	WATER SOFTENER	6	FLA	120 V	1	6 A	1	3/4"	2	12	12	13A	-	-	-	-	-	NEMA 1	

STARTER/DISCONNECT/CONNECTION AT UNIT NOTES:

1. MANUAL STARTER WITH THERMAL OVERLOAD
2. MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION & LOW VOLTAGE RELAY / CONTACTOR FOR ATC CONTROL.
3. COMBINATION MAGNETIC STARTER / FUSED DISCONNECT
4. COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)
5. COMBINATION VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)
6. REDUCED VOLTAGE STARTER
7. COMBINATION TWO-SPEED STARTER / FUSED DISCONNECT
8. COMBINATION TWO-SPEED STARTER / MOTOR CIRCUIT PROTECTOR (MCP)
9. NON-FUSED DISCONNECT SWITCH
10. FUSED DISCONNECT SWITCH
11. BREAKER AND ENCLOSURE
12. DIRECT CONNECTION
13. DUPLEX RECEPTACLE OUTLET
14. SPECIAL PURPOSE OUTLET
15. SHUNT-TRIP DISCONNECT
16. TOGGLE SWITCH
17. MAGNETIC STARTER
18. FUSED ELEVATOR SWITCH
19. PROVIDE LATE-MAKE-EARLY-BREAK DISCONNECT

A. FURNISHED, INSTALLED & CONNECTED UNDER DIVISION 26.
B. FURNISHED & INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTIONS UNDER DIVISION 26
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26
D. FURNISHED, INSTALLED & CONNECTED UNDER ANOTHER DIVISION
E. FURNISHED BY OWNER, INSTALLED & CONNECTED BY DIVISION 26

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND SIZE FEEDER, STARTER, DISCONNECT AND OVERCURRENT PROTECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OF ACTUAL EQUIPMENT SUPPLIED.
2. REFER TO FEEDER SCHEDULE ON THE ONE-LINE DIAGRAM FOR CONDUIT AND WIRE SIZES.
3. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS PRIOR TO BID.
4. ELECTRICAL CONTRACTOR SHALL REVIEW OTHER TRADE SUBMITTALS FOR ANY EQUIPMENT REQUIRING CONNECTION BY ELECTRICAL CONTRACTOR AND COORDINATE ALL REQUIREMENTS PRIOR TO ROUGH-IN.
5. SIZE ALL FUSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

PANELBOARD SCHEDULE

PANEL NAME: 1SHC1

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 277/480V
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 35K AIC

LOCATION: ELEC. C143
MAIN TYPE: MLO
BUS RATING: 200A
MCB RATING: NONE
BUS MATERIAL: ALUMINUM

FEED FROM: ATS-2
SPD: CAT 'A'
NEUTRAL RATING: 200%
ISOLATED GROUND: NONE

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A	A	B	B	C	C	CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	T-S1	50 A	3		1	4196 VA	2072 VA					2		3	50 A	T-S4	
–	–	–	–		3			3310 VA	2072 VA			4		–	–	–	–
–	–	–	–		5					4076 VA	720 VA	6		–	–	–	–
	T-S2	50 A	3		7	720 VA	1800 VA					8		3	50 A	T-S5	
–	–	–	–		9			1712 VA	1712 VA			10		–	–	–	–
–	–	–	–		11					1712 VA	1712 VA	12		–	–	–	–
	T-S3	50 A	3		13	720 VA	0 VA					14		–	–	-SPACE ONLY-	–
–	–	–	–		15			1712 VA	0 VA			16		–	–	-SPACE ONLY-	–
–	–	–	–		17					1712 VA	0 VA	18		–	–	-SPACE ONLY-	–
	-SPARE-	50 A	3		19	0 VA	0 VA					20		–	–	-SPACE ONLY-	–
–	–	–	–		21			0 VA	0 VA			22		–	–	-SPACE ONLY-	–
–	–	–	–		23					0 VA	0 VA	24		–	–	-SPACE ONLY-	–
	-SPARE-	50 A	3		25	0 VA	0 VA					26		–	–	-SPACE ONLY-	–
–	–	–	–		27			0 VA	0 VA			28		–	–	-SPACE ONLY-	–
–	–	–	–		29					0 VA	0 VA	30		–	–	-SPACE ONLY-	–
	TOTAL CONNECTED LOAD PER PHASE (VA)					9508 VA		10518 VA		9932 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					34 A		38 A		36 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	7560 VA	100.00%	7560 VA	Total Conn. Load:	29958 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	26580 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	36 A
M	Motor	10816 VA	106.25%	11492 VA	Total Est. Demand Current:	32 A
K	Kitchen	11582 VA	65.00%	7528 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: K1

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
DOOR TYPE: DOOR-IN-DOOR

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING: 22K AIC

LOCATION: KITCHEN C128
MAIN TYPE:
BUS RATING: 250 A
MCB RATING:
BUS MATERIAL:

FEED FROM:
SPD:
NEUTRAL RATING:
ISOLATED GROUND:

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A	A	B	B	C	C	CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	(E-11) DISPOSER	20 A	3	K	1	793 VA	1500 VA					2	E	1	20 A	KITCHEN WASHER	
–	–	–	–	–	3			793 VA	2500 VA			4	E	2	30 A	KITCHEN DRYER	
–	–	–	–	–	5					793 VA	2500 VA	6	–	–	–	–	–
	(E-12) DISHWASHER	20 A	3	K	7	1285 VA	360 VA					8	M	1	20 A	(E-13) BOOSTER HEATER	
–	–	–	–	–	9			1285 VA	696 VA			10	M	1	20 A	EXHAUST FAN 'EF-C1.2'	
–	–	–	–	–	11					1285 VA	1352 VA	12	M	2	20 A	SPLIT SYSTEM 'AC-1C'	
	(E-14) POS COMPUTER	20 A	1	K	13	180 VA	1352 VA					14	–	–	–	–	–
	(E-17) PREP SINK / WORK TABLE	20 A	1	K	15			1200 VA	528 VA			16	M	1	20 A	EXHAUST FAN 'EF-C1.4'	
	(E-18) FOOD PROCESSOR	20 A	1	K	17					960 VA	0 VA	18		1	20 A	-SPARE-	
	(E-19) WORK TABLE	20 A	1	K	19	1200 VA	0 VA					20		1	20 A	-SPARE-	
	(E-20) SLICER	20 A	1	K	21			1032 VA	0 VA			22		1	20 A	-SPARE-	
	(E-21) DISPOSER	20 A	3	K	23					901 VA	0 VA	24		1	20 A	-SPARE-	
–	–	–	–	–	25	901 VA	0 VA					26		1	20 A	-SPARE-	
–	–	–	–	–	27			901 VA	0 VA			28		1	20 A	-SPARE-	
1	(E-22) ICE MAKER	20 A	1	K	29					1704 VA	0 VA	30		1	20 A	-SPARE-	
	(E-23) WORK TABLE	20 A	1	K	31	1200 VA	0 VA					32		1	20 A	-SPARE-	
	(E-24) WORK TABLE	20 A	1	K	33			1200 VA	0 VA			34		1	20 A	-SPARE-	
	DRYER BOOSTER FAN 'DBF-1'	20 A	1	M	35					696 VA	0 VA	36		1	20 A	-SPARE-	
	-SPARE-	20 A	1	E	37	0 VA	0 VA					38		1	20 A	-SPARE-	
	-SPARE-	20 A	1	E	39			0 VA	0 VA			40		1	20 A	-SPARE-	
	-SPARE-	20 A	1	–	41					0 VA	0 VA	42		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					8770 VA		10134 VA		10190 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					73 A		86 A		87 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	0 VA	0.00%	0 VA	Total Conn. Load:	29095 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	23481 VA
E	Equipment	6500 VA	100.00%	6500 VA	Total Conn. Current:	81 A
M	Motor	4624 VA	114.62%	5300 VA	Total Est. Demand Current:	65 A
K	Kitchen	17971 VA	65.00%	11681 VA		
O	Other	0 VA	0.00%	0 VA		

PANELBOARD SCHEDULE

PANEL NAME: K2

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
DOOR TYPE:

VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
Min. A.I.C. RATING:

LOCATION: KITCHEN C128
MAIN TYPE:
BUS RATING: 250 A
MCB RATING:
BUS MATERIAL:

FEED FROM:
SPD:
NEUTRAL RATING:
ISOLATED GROUND:

BRANCH BREAKERS

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	A	A	B	B	C	C	CKT #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	(E-25) WORK TABLE	20 A	1	K	1	1200 VA	2465 VA					2	K	2	40 A	(E-39) HOT/COLD/FROZEN...	
	(E-26) WORK TABLE	20 A	1	K	3			1200 VA	2465 VA			4	–	–	–	–	–
	(E-27) 30 QT. MIXER	20 A	1	K	5					1140 VA	2465 VA	6	K	2	40 A	(E-40) HOT/COLD/FROZEN...	
	(E-28) EXHAUST HOOD	20 A	1	K	7	900 VA	2465 VA					8	–	–	–	–	–
	(E-29) GAS SHUT OFF VALVE	20 A	1	K	9			120 VA	960 VA			10	K	1	20 A	(E-42) MILK COOLER	
	(E-30) HOOD: HEAT SENSOR	20 A	1	K	11					1800 VA	960 VA	12	K	1	20 A	(E-43) MILK COOLER	
	(E-31) UTILITY DIST. SYSTEM	70 A	3	K	13	6004 VA	960 VA					14	K	1	20 A	(E-44) MILK COOLER	
–	–	–	–	–	15			6004 VA	960 VA			16	K	1	20 A	(E-45) POS COMPUTER	
–	–	–	–	–	17					6004 VA	720 VA	18	R	1	20 A	RCPTS - SERVING C100	
–	SHUNT TRIP	–	–	–	19	0 VA	900 VA					20	R	1	20 A	RCPTS - KITCHEN C100	
	(E-32) HOT FOOD WARMING...	20 A	2	K	21			750 VA	1080 VA			22	R	1	20 A	RCPTS - FURNITURE STRGE...	
–	–	–	–	–	23					750 VA	540 VA	24	R	1	20 A	RCPTS - OFFICE C100	
1	(E-33) REACH-IN...	20 A	1	K	25	456 VA	180 VA					26	R	1	20 A	POS FLOOR BOX	
	(E-34) MICROWAVE OVEN	20 A	1	K	27			2016 VA	0 VA			28		1	20 A	-SPARE-	
	(E-35) WORK TABLE	20 A	1	K	29					1200 VA	0 VA	30		1	20 A	-SPARE-	
1	(E-36) REACH-IN...	20 A	1	K	31	456 VA	0 VA					32		1	20 A	-SPARE-	
	(E-37) HOT FOOD WARMING...	20 A	2	K	33			750 VA	0 VA			34		1	20 A	-SPARE-	
–	–	–	–	–	35					750 VA	0 VA	36		1	20 A	-SPARE-	
	-SPARE-	20 A	1		37	0 VA	0 VA					38		1	20 A	-SPARE-	
	-SPARE-	20 A	1		39			0 VA	0 VA			40		1	20 A	-SPARE-	
	-SPARE-	20 A	1		41					0 VA	0 VA	42		1	20 A	-SPARE-	
	TOTAL CONNECTED LOAD PER PHASE (VA)					15986 VA		16305 VA		16329 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)					133 A		136 A		136 A							

TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
P	Panel	0 VA	0.00%	0 VA		
R	Receptacle	3420 VA	100.00%	3420 VA	Total Conn. Load:	48621 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
C	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	32800 VA
E	Equipment	0 VA	0.00%	0 VA	Total Conn. Current:	135 A
M	Motor	0 VA	0.00%	0 VA	Total Est. Demand Current:	91 A
K	Kitchen	45201 VA	65.00%	29380 VA		
O	Other	0 VA	0.00%	0 VA		

PANEL LEGEND

		1SHC1
		K1
		K2

PANELBOARD SCHEDULE KEYED NOTE:

1. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
2. PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER
3. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUND FAULT PROTECTOR TYE CIRCUIT BREAKER.
4. PROVIDE SHUNT TRIP CIRCUIT BREAKER WITH 120 V COIL.
5. PROVIDE HACR RATED CIRCUIT BREAKER.
6. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
7. PROVIDE SWITCHING RATED CIRCUIT BREAKER.
8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LOCATED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING.
9. EXISTING LOAD

MHTN
ARCHITECTS
MHTN Architects, Inc.
420 East South Temple
Suite 100
Salt Lake City, Utah 84111
Telephone (801) 595-6700
Telefax (801) 595-6717
www.mhtn.com

ENVISION
ENGINEERING
240 E. MORRIS AVE. SUITE 200
SALT LAKE CITY, UT 84115
P (801) 534-1130
F (801) 534-1080
www.envisioneng.com

OGDEN SCHOOL DISTRICT
HORACE MANN ELEMENTARY SCHOOL - RFP 20-012
1300 9TH STREET
OGDEN, UTAH 84404

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NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
NOVEMBER 21, 2019

SHEET NAME
PANEL AND MECHANICAL SCHEDULES

SHEET NUMBER
E-345