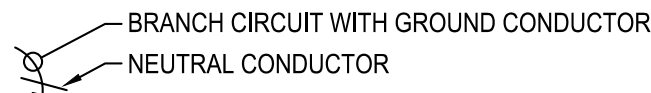




REFERENCE SYMBOLS & WIRING




BRANCH CIRCUIT WITH GROUND CONDUCTOR  
NEUTRAL CONDUCTOR




PHASE CONDUCTOR  
HOMERUN ARROW




PLAN NOTE MARK



SHEET REFERENCE MARK



MECHANICAL EQUIPMENT NOTE MARK




FEEDER MARK


[+ XX"]

STANDARD MOUNTING HEIGHT TO CENTER UNLESS OTHERWISE NOTED ON DRAWINGS


LINETYPE LEGEND




FENCING




UNDER GROUND



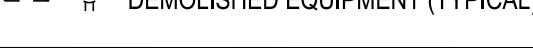
ABOVE GROUND, IN WALL, CEILING, ETC



NEW EQUIPMENT (TYPICAL)



EXISTING EQUIPMENT (TYPICAL)



DEMOLISHED EQUIPMENT (TYPICAL)

ABBREVIATIONS

(E)

EXISTING TO REMAIN

(F)

FUTURE

(R)

EXISTING TO BE RELOCATED

(D)

EXISTING TO BE DEMOLISHED

AC

ALTERNATING CURRENT

A, AMP

AMPERES

AFF

ABOVE FINISHED FLOOR

AFG

ABOVE FINISHED GRADE

AFI

ARC FAULT CIRCUIT INTERRUPTER

AHJ

AUTHORITY HAVING JURISDICTION

AIC

EQUIPMENT SHORT CIRCUIT INTERRUPT RATING

AL

ALUMINUM

ATS

AUTOMATIC TRANSFER SWITCH

AUX

AUXILIARY

AWG

AMERICAN WIRE GAUGE

C

CONDUIT

CB

CIRCUIT BREAKER

CKT

CIRCUIT

CO

CARBON MONOXIDE

CR

CONTROLLED RECEPTACLE

CT

CURRENT TRANSFORMER

CU

COPPER

DC

DIRECT CURRENT

DISC

DISCONNECT

DIA

DIAMETER

DMX

DIGITAL MULTIPLEX

DWG

DRAWING

EF

EXHAUST FAN

EM

EMERGENCY

EMT

ELECTRICAL METALLIC TUBING

ENCL

ENCLOSURE

FA

FIRE ALARM

FAA

FIRE ALARM ANNUNCIATOR

FBO

FURNISHED BY OTHERS

FC

FOOT CANDLES

FLA

FULL LOAD AMPERES

FSD

FIRE & SMOKE DAMPER

GEN

GENERATOR

GFCI

GROUND FAULT CIRCUIT INTERRUPTER

GFEP

GROUND FAULT EQUIPMENT PROTECTION

GND

GROUND

HP

HORSEPOWER

HTR

HEATER

IG

ISOLATED GROUND

IR

INFRARED

INV

INVERTER

KCM

THOUSAND CIRCULAR MILS

KW

THOUSAND WATTS

KVA

THOUSAND VOLT-AMPERES

LTG

LIGHTING

LCP

LIGHTING CONTROL PANEL

MB

MAIN BREAKER

MCA

MINIMUM CIRCUIT AMPERES

MDP

MAIN DISTRIBUTION PANEL

MIN

MINIMUM

MLO

MAIN LUGS ONLY

NAC

NOTIFICATION APPLIANCE CIRCUIT

NEC

NATIONAL ELECTRICAL CODE

NEMA

NATIONAL ELECTRICAL MFR'S ASSOCIATION.

NTS

NOT TO SCALE

OFCI

OWNER FURNISHED, CONTRACTOR INSTALLED

OFOI

OWNER FURNISHED, OWNER INSTALLED

OS

OCCUPANCY SENSOR

PH, Ø

PHASE

PNL

PANEL

SDP

SUB DISTRIBUTION PANEL

TEL

TELEPHONE

TK

TOE KICK MOUNTED

TVSS

TRANSIENT VOLTAGE SURGE SUPPRESSION

TYP

TYPICAL

UC

UNDERCABINET

UPS

UNINTERRUPTIBLE POWER SUPPLY

USB

UNIVERSAL SERIAL BUS

V

VOLTS

VA

VOLT-AMPERES

VFD

VARIABLE FREQUENCY DRIVE

W

WATT


WP

WEATHERPROOF


XFMR

TRANSFORMER


DISTRIBUTION & EQUIPMENT




FLUSH ELECTRICAL PANEL




SURFACE ELECTRICAL PANEL




FLUSH CONTROL PANEL




SURFACE CONTROL PANEL




TRANSFORMER




VAULT



ABOVE GROUND JUNCTION BOX




METER AND SOCKET




SERVICE ENTRANCE POWER POLE


POWER DEVICES




SINGLE RECEPTACLE




DUPLEX RECEPTACLE




DOUBLE DUPLEX RECEPTACLE




[FLUSH IN FLOOR]




[ABOVE COUNTER]




[IN CEILING]




CONTROLLED RECEPTACLES




[ABOVE COUNTER]



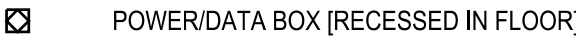
USB DUPLEX RECEPTACLE




ISOLATED GROUND RECEPTACLES




GFCI, USB/GFCI, ISOLATED/GFCI



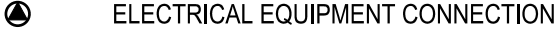
POWER/DATA BOX [RECESSED IN FLOOR]




POWER/DATA POLE




SPECIAL PURPOSE POWER RECEPTACLE



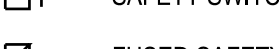
ELECTRICAL EQUIPMENT CONNECTION




MAGNETIC STARTER




VARIABLE FREQUENCY DRIVE



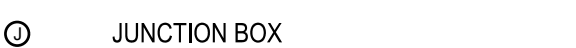
SAFETY SWITCH




FUSED SAFETY SWITCH




ELECTRICAL MOTOR CONNECTION




SINGLE POINT ELECTRICAL CONNECTION




JUNCTION BOX




JUNCTION BOX [IN FLOOR]




JUNCTION BOX WITH EMERGENCY CIRCUIT



PUSH BUTTON CONTROL




UP/DOWN/STOP PUSH BUTTON CONTROL

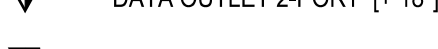


WALL HEATER


TELECOMMUNICATION DEVICES




DATA OUTLET 1-PORT [+ 18"]




DATA OUTLET 2-PORT [+ 18"]




DATA OUTLET 3-PORT [+ 18"]




DATA OUTLET 4-PORT [+ 18"]



DATA OUTLET FOR WIRELESS NODE 1-PORT [+ 96"]




[ABOVE COUNTER]

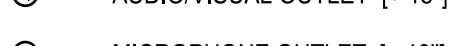


[IN CEILING]


SIGNAL DEVICES




VOLUME CONTROL [+ 45"]




AUDIOVISUAL OUTLET [+ 18"]



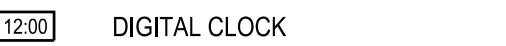
MICROPHONE OUTLET [+ 18"]




ANALOG CLOCK [+ 96"]




TIME CLOCK/SWITCH



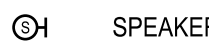
ANALOG CLOCK & SPEAKER [+ 96"]




DIGITAL CLOCK




DIGITAL CLOCK & SPEAKER [+ 96"]



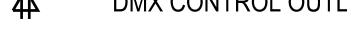
SPEAKER [IN CEILING]




SPEAKER-WALL MOUNTED [+ 84"]




CALL BUTTON



THERMOSTAT [+ 45"]




DMX CONTROL OUTLET




BUZZER

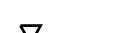
FIRE ALARM DEVICES




PULL STATION [+ 45"]




STROBE [+ 88"]




HORN [+ 88"]




HORN / STROBE [+ 88"]




SPEAKER / STROBE [+ 88"]




[IN CEILING]



HEAT DETECTOR



DUCT SMOKE DETECTOR



IONIZATION TYPE SMOKE DETECTOR




PHOTO ELECTRIC TYPE SMOKE DETECTOR







PHOTO ELECTRIC TYPE SMOKE & CO DETECTOR




FIRE/SMOKE DAMPER




FIRE DOOR RELEASE




IR SMOKE DETECTOR TRANSMITTER




IR SMOKE DETECTOR RECEIVER




SPRINKLER FLOW SWITCH



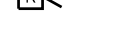
SPRINKLER TAMPER SWITCH




BELL




KNOX BOX



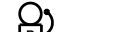
MAGNETIC DOOR HOLDER



CONTROL MODULE



ALARM MODULE



IONIZATION TYPE SMOKE DETECTOR  
W/ INTEGRAL HORN & STROBE




PHOTO ELECTRIC TYPE SMOKE DETECTOR  
W/ INTEGRAL HORN & STROBE





PHOTO ELECTRIC TYPE SMOKE & CO DETECTOR  
W/ INTEGRAL HORN & STROBE


FIRE ALARM DESIGN BUILD NOTE:

PER SPECIFICATION SECTION 28 31 00 - THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, FURNISHING, AND INSTALLING A COMPLETE FIRE ALARM SYSTEM, INCLUDING, BUT NOT LIMITED TO, ALL ADDRESSABLE FIRE ALARM PANELS, NAC PANELS, INITIATION DEVICES, MONITORING DEVICES, CONTROL DEVICES, ANNUNCIATION DEVICES, AND OTHER EQUIPMENT AS REQUIRED BY OTHER DIVISIONS OF THE SPECIFICATIONS AND LOCAL AHJ.


SECURITY DEVICES




GLASS BREAK DETECTOR



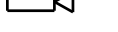
DIRECTIONAL MOTION SENSOR




360° MOTION SENSOR




VIDEO SURVEILLANCE CAMERA




FLUSH AUTOMATIC DOOR ACTUATOR [+ 45"]




KEYPAD [+ 45"]




MAGNETIC DOOR SWITCH




ELECTRIC STRIKE




ELECTRIC LOCK




MAGNETIC DOOR LOCK




CENTRONIC DOOR CLOSER




CARD READER [+ 45"]



REQUEST TO EXIT DEVICE




VIDEO CALL STATION




VIDEO RECEIVER STATION


NURSE CALL




CORRIDOR LIGHT [ABOVE DOOR]




CORRIDOR LIGHT [IN CEILING]



EMERGENCY PULL CORD STATION




DUTY STATION

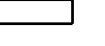


MASTER STATION


LIGHTING DEVICES




SURFACE MOUNTED LUMINAIRES



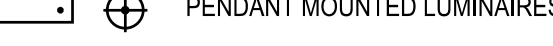
[EMERGENCY]




RECESSED LUMINAIRES




[EMERGENCY]




PENDANT MOUNTED LUMINAIRES



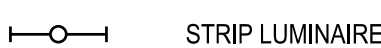
[EMERGENCY]




WALL MOUNTED LUMINAIRES




[EMERGENCY]




STRIP LUMINAIRE




[EMERGENCY]




WALL WASH LUMINAIRES



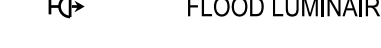
TRACK LIGHTING SYSTEM



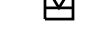
DIRECTIONAL LUMINAIRE [IN GRADE]




FLOOD LUMINAIRE




STEP LUMINAIRE




[EMERGENCY]



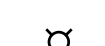
POLE ARM MOUNT LUMINAIRE



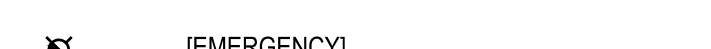
POLE TOP MOUNT LUMINAIRE




LIGHTED BOLLARD



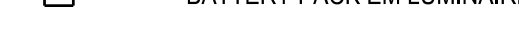
[EMERGENCY]




BATTERY PACK EM LUMINAIRE [WALL MOUNT]




BATTERY PACK EM LUMINAIRE [CEILING MOUNTED]




EXIT SIGN [CEILING MOUNTED]



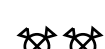
EXIT SIGN [WALL MOUNTED]




EXIT SIGN W/ EMERGENCY LIGHT



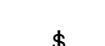
SINGLE-POLE SWITCH [+ 45"]




TWO-POLE SWITCH [+ 45"]




THREE-WAY SWITCH [+ 45"]



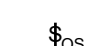
FOUR-WAY SWITCH [+ 45"]




OCCUPANCY SENSOR SWITCH [+ 45"]




OCCUPANCY SENSOR & DIMMER SWITCH [+ 45"]



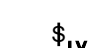
DIMMER SWITCH [+ 45"]




LOW-VOLTAGE SWITCH [+ 45"]




KEYED SWITCH [+ 45"]




SWITCH WITH PILOT LIGHT [+ 45"]




MULTI-ZONE WALL POD [+ 45"]




OCCUPANCY SENSOR 360° [CEILING MOUNTED]




DIRECTIONAL OCCUPANCY SENSOR [UNIVERSAL MOUNT]




OCCUPANCY SENSOR POWER PACK




PHOTOCELL




DAYLIGHT SENSOR



EMERGENCY LOAD TRANSFER DEVICE




LIGHTING CONTACTOR




ROOM CONTROLLER WITH [X] # RELAYS


SWITCH - LUMINAIRE CONTROL




SWITCH FOR ZONE 'x'




'XX'-TYPE SWITCH




TYPE 'XX' LUMINAIRE



LUMINAIRE IN ZONE 'x'



CIRCUIT NUMBER



CONTROL IN ZONE 'x'

NOTE: SYMBOLS AND DEFINITIONS LISTED ON TITLE SHEET ARE TYPICAL OF ALL PROJECTS AND SOME MAY NOT BE PRESENT IN ANY GIVEN DRAWING SET.

DRAWING INDEX

DWG	DESCRIPTION
E0	ELECTRICAL TITLE SHEET
E1	FLOOR PLAN - ELECTRICAL
E2	ONE-LINE AND PANEL SCHEDULES

PROJECT SCOPE

- ADD NEW EMERGENCY PANELS 2E AND 2E2.
- CONNECT GYMNASIUM LIGHTING TO EMERGENCY POWER.
- PROVIDE EMERGENCY POWER TO SELECT RECEPTACLES IN MAIN OFFICE.
- PROVIDE EMERGENCY POWER TO MDF ROOM SERVERS AND HVAC.
- PROVIDE EMERGENCY POWER TO FIRE ALARM SYSTEM.
- PROVIDE EMERGENCY POWER ACCESS CONTROL SYSTEMS.
- PROVIDE EMERGENCY POWER TO LUMINAIRES AT EXTERIOR EGRESS DOORS.
- UPGRADE EXISTING PANEL SCHEDULES TO REFLECT CHANGES. PROVIDE TYPEWRITTEN PANEL SCHEDULES.
- CONNECT MAIN OFFICE LIGHTING TO EMERGENCY CIRCUIT.

PROJECT CONTACTS

BEAVERTON SCHOOL DISTRICT  
MICHAEL LAMBERTY  
EMAIL: MICHAEL\_LAMBERTY@BEAVERTON.K12.OR.US

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MKE & ASSOCIATES, INC.  
HANK BARLEEN  
EMAIL: HANKB@MKE-INC.COM

DANIEL DERHEIMER  
EMAIL: DANIELD@MKE-INC.COM



EXPIRES 12-31-22

DISTRICT-WIDE FIRE ALARM RESILIENCY-8331 PROJECT  
ERROL HASSELL ELEMENTARY  
BEAVERTON S.D.  
18100 SW BANDY ROAD  
BEAVERTON, OR 97007

ISSUE DATE:

03-23-2022

SET TYPE:

BID

REVISIONS:

DRAWN BY:

DD

DESIGNED BY:

HB

CHECKED BY:

SL

MKE JOB #:

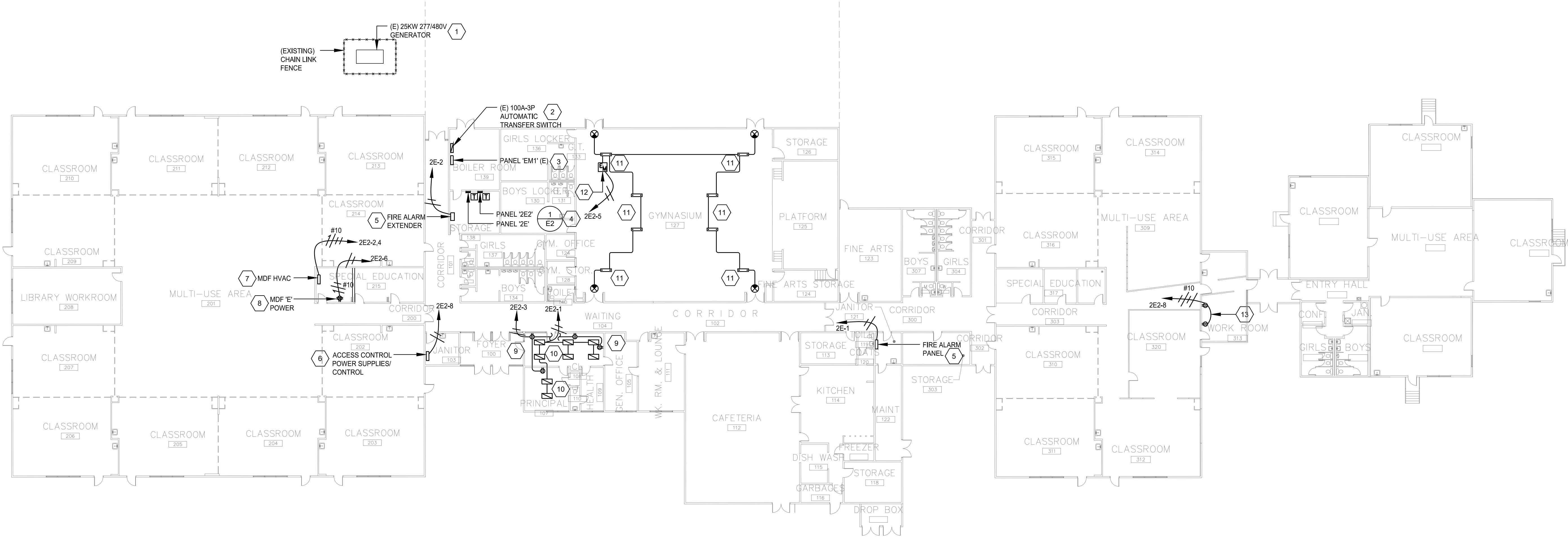
BV-5749

ELECTRICAL -  
TITLE  
SHEET

E0

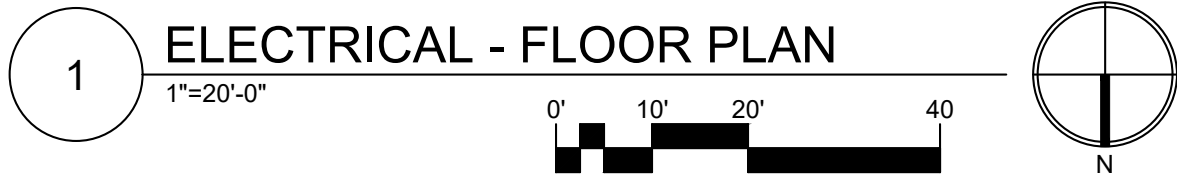


PLOTTED: DANIEL DERHEIMER 3/23/2022 11:11 AM  
 5749E1-ERROL HASSELL



KEYED NOTES:

- EXISTING 25 KW 277/480V, 3 PHASE GENERATOR TO REMAIN.
- EXISTING 60A, 277/480V, 3 PHASE AUTOMATIC TRANSFER SWITCH TO BE MAINTAINED.
- ADD BREAKERS IN EXISTING 277/480V, 3 PHASE PANEL AS OUTLINED ON PANEL SCHEDULES.
- PROVIDE AND INSTALL NEW 120/208V, 1 PHASE PANEL BOARDS. SEE PANEL SCHEDULES, PROVIDE HOUSEKEEPING PAD.
- PROVIDE 120V, 20A, CIRCUIT FOR FIRE ALARM PANEL AND FIRE ALARM EXTENDER.
- PROVIDE 120V, 20A, CIRCUIT TO ACCESS CONTROL SYSTEM. EXTEND 120V CIRCUIT TO EACH CONTROL PANEL / POWER SUPPLY.
- PROVIDE 208V, 1 PHASE, 20A, CIRCUIT FOR MDF SPLIT-SYSTEM AC UNIT. POWER CONNECTION REQUIRED TO ROOFTOP CONDENSER.
- PROVIDE 120V CONNECTION TO MDF RACK.
- PROVIDE 120V, 20A, CIRCUIT TO RECEPTACLES OUTLINED. REMOVE NORMAL POWER CIRCUITS TO SOURCE.
- PROVIDE 120V, 20A, CIRCUIT TO POWER MAIN OFFICE/PRINCIPAL'S OFFICE LIGHTING. DISCONNECT FROM NORMAL POWER, REMOVE CONDUCTORS BACK TO SOURCE. MAINTAIN CONTROL.
- PROVIDE AND INSTALL 120V, 20A, CIRCUIT FOR 8 SELECTED LUMINARIES IN GYMNASIUM. DISCONNECT FOR NORMAL POWER SOURCE. NEW CIRCUIT WILL BE REQUIRED TO BE INSTALLED IN SEPARATE CONDUIT. MAINTAIN NORMAL POWER CONTROL.,
- PROVIDE AND INSTALL UL 924 EMERGENCY LOAD TRANSFER DEVICE CONTROL EMERGENCY LUMINARIES WITH NORMAL POWER CIRCUITS. LUMINARIES TO TRANSFER TO 100% EMERGENCY OUTPUT UPON POWER LOSS.
- PROVIDE 120V, 20A, CIRCUIT TO IDF WALL CABINETS. DISCONNECT FROM NORMAL POWER BACK TO SOURCE.



DISTRICT-WIDE FIRE ALARM RESILIENCY-8331 PROJECT  
 ERROL HASSELL ELEMENTARY  
 BEAVERTON S.D.  
 18100 SW BANDY ROAD  
 BEAVERTON, OR 97007

ISSUE DATE:

03-23-2022

SET TYPE:

BID

REVISIONS:

DRAWN BY:

DD

DESIGNED BY:

HB

CHECKED BY:

SL

MKE JOB #:

BV-5749

ELECTRICAL -  
FLOOR  
PLAN

E1



PANEL SCHEDULE												
PANEL: EM1 (EXISTING)			MKE & ASSOCIATES, INC.			MOUNTING: SURFACE						
FED BY: ATS/MDP			BUS/MAIN: 100A MLO									
LOC: ELECTRICAL RM			VOLTS 277/480		PHASE 3		WIRE 4					
C	DESCRIPTION	VA	A/P	No.	A	B	C	No.	A/P	VA	DESCRIPTION	C
1	L - EGRESS	1600	20/1	1	*			2	20/1	1210	L - EXTERIOR	1
1	L - EGRESS	1600	20/1	3	*			4	20/1	1600	L - EXTERIOR	1
	SPACE			5	*			6	20/1	1600	L - EXTERIOR	1
5	PANEL '2E' ^	2500	30/2	7	*			8	30/2	200	PANEL '2E2' ^	5
5	^ ^	2500	*	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				

LOAD CODE (VA)	PH A	PH B	PH C	TOTAL (VA)	FACTOR	CODE LOAD
1. LIGHTS:	2,810	3,200	1,600	7,610	1.25	9,513
2. RECEPTACLE:	0	0	0	0	*	0
3. HEATING:	0	0	0	0	1.00	0
4. KITCHEN:	0	0	0	0	1.00	0
5. EQUIPMENT:	2,700	2,500	0	5,200	1.00	5,200
6. MOTORS:	0	0	0	0	**	0
7. MISC:	0	0	0	0	1.00	0
TOTAL (VA):	5,510	5,700	1,600	12,810		14,713

LARGEST MOTOR:	0 VA	TOTAL LOAD:	15 A	CODE DEMAND:	18 A
# KITCHEN EQUIPMENT	0				

NOTES:    ^ PROVIDE NEW BREAKERS IN EXISTING PANEL

\* FIRST 10 KVA + 50% OF THE BALANCE  
\*\* 125% OF THE LARGEST MOTOR + THE BALANCE

KEYED NOTES:

- EXISTING 25 KW 277/480V, 3 PHASE GENERATOR TO REMAIN.
- MAINTAIN EXISTING FEEDERS.
- EXISTING 60A, 277/480V, 3 PHASE AUTOMATIC TRANSFER SWITCH TO BE MAINTAINED.
- PROVIDE (4) #8 IN 1" EMT.
- PROVIDE AND INSTALL 7.5 KW 480V/208V, 1 PHASE DRY-TYPE TRANSFORMER. SEE SPECIFICATIONS. PROVIDE HOUSEKEEPING PAD.
- ADD BREAKERS IN EXISTING 277/480V, 3 PHASE PANEL AS OUTLINED ON PANEL SCHEDULES.
- PROVIDE AND INSTALL NEW 120/208V, 1 PHASE PANEL BOARDS. SEE PANEL SCHEDULES. PROVIDE HOUSEKEEPING PAD.

PANEL SCHEDULE											
PANEL: 2E (NEW)			MKE & ASSOCIATES, INC.				MOUNTING: SURFACE				
FED BY: EM1			BUS/MAIN: 100A BUS 50A-2P MAIN								
LOC: STORAGE RM			VOLTS 120/208		PHASE 1		WIRE 3				
C	DESCRIPTION	VA	A/P	No.	A	C	No.	A/P	VA	DESCRIPTION	C
5	FACP	200	20/1	1	*		2	20/1	200	FIRE ALARM	5
5	ACCES CONTROL	200	20/1	3	*		4	20/1		SPARE	
	SPACE			5	*		6	20/1		SPARE	
	SPACE			7	*		8	20/1		SPARE	
	SPACE			9	*		10	20/1		SPARE	
	SPACE			11	*		12			SPARE	
	SPACE			13	*		14			SPARE	
	SPACE			15	*		16			SPARE	
	SPACE			17	*		18			SPARE	
	SPACE			19	*		20			SPARE	

LOAD CODE (VA)	PH A	PH B	TOTAL (VA)	FACTOR	CODE LOAD
1. LIGHTS:	0	0	0	1.25	0
2. RECEPTACLE:	0	0	0	*	0
3. HEATING:	0	0	0	1.00	0
4. KITCHEN:	0	0	0	1.00	0
5. EQUIPMENT:	400	200	600	1.00	600
6. MOTORS:	0	0	0	**	0
7. MISC:	0	0	0	1.00	0
TOTAL (VA):	400	200	600		600

LARGEST MOTOR:	0 VA	TOTAL LOAD:	3 A	CODE DEMAND:	3 A
# KITCHEN EQUIPMENT	0				

NOTES:	* FIRST 10 KVA + 50% OF THE BALANCE ** 125% OF THE LARGEST MOTOR + THE BALANCE
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PANEL: 2E2 (NEW)

FED BY: EM1

LOC: STORAGE RM

MKE & ASSOCIATES, INC.

VOLTS  
120/208

PHASE  
1

PANEL SCHEDULE

MOUNTING: SURFACE

BUS/MAIN: 100A BUS  
50A-2P MAIN

WIRE  
3

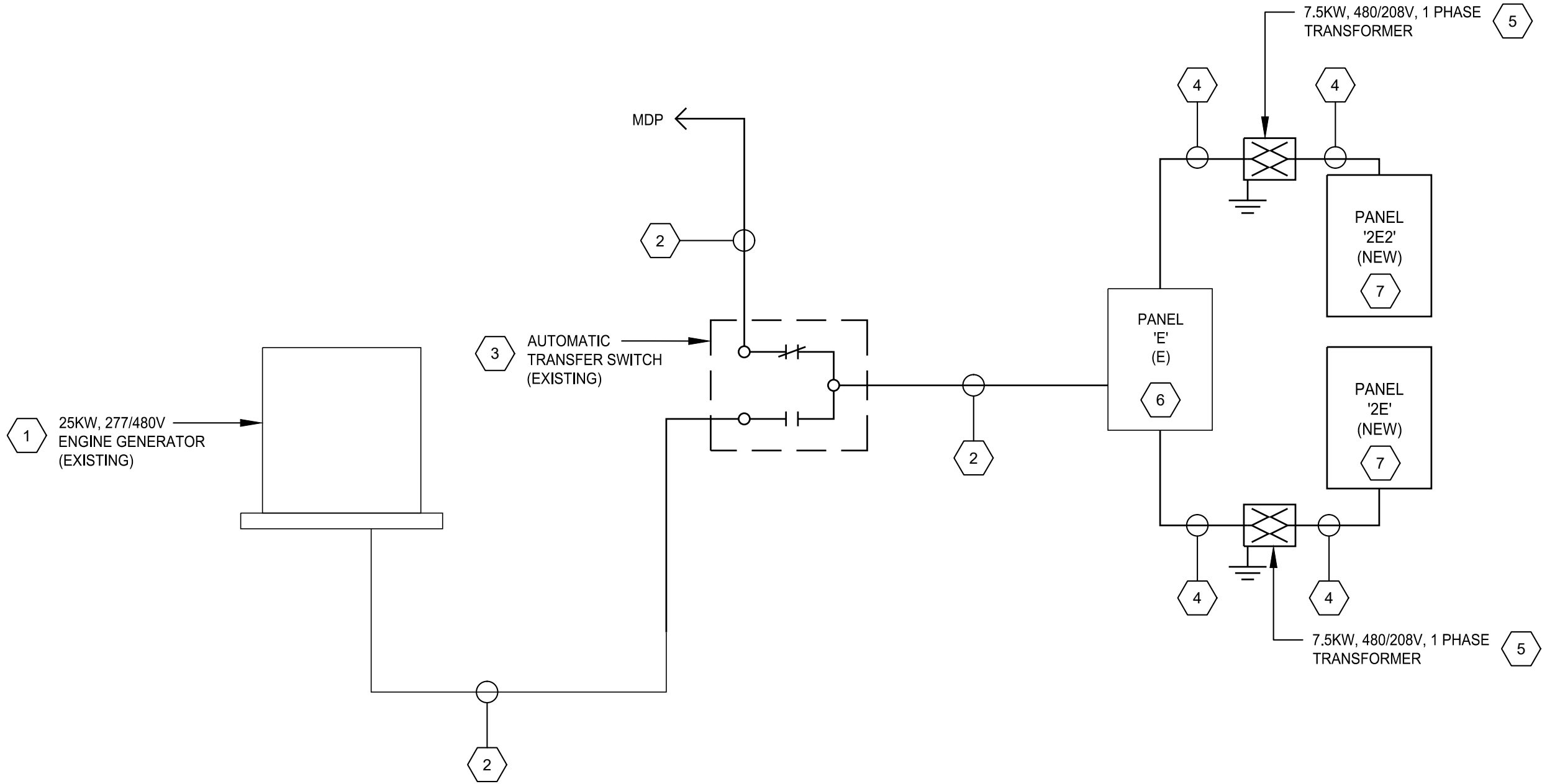
C	DESCRIPTION	VA	A/P	No.	A	C	No.	A/P	VA	DESCRIPTION	C
1	L - OFFICE	460	20/1	1	*		2	20/2	1100	MDF HVAC	6
2	R - OFFICE	720	20/1	3	*		4	*	1100	*	6
1	L - GYM	1600	20/1	5	*		6	20/1	400	R - MDF	2
	SPARE		20/1	7	*		8	20/1	400	R - IDF	2
	SPARE		20/1	9	*		10			SPACE	
	SPARE		20/1	11	*		12			SPACE	
	SPACE			13	*		14			SPACE	
	SPACE			15	*		16			SPACE	
	SPACE			17	*		18			SPACE	
	SPACE			19	*		20				

LOAD CODE (VA)	PH A	PH B	TOTAL (VA)	FACTOR	CODE LOAD
1. LIGHTS:	2,060	0	2,060	1.25	2,575
2. RECEPTACLE:	400	1,120	1,520	*	1,520
3. HEATING:	0	0	0	1.00	0
4. KITCHEN:	0	0	0	1.00	0
5. EQUIPMENT:	0	0	0	1.00	0
6. MOTORS:	1,100	1,100	2,200	**	ID LARGEST MOTOR
7. MISC:	0	0	0	1.00	0
TOTAL (VA):	3,560	2,220	5,780		4,095

LARGEST MOTOR:	1,100 VA	TOTAL LOAD:	28 A	CODE DEMAND:	20 A
# KITCHEN EQUIPMENT	0				

NOTES:

\* FIRST 10 KVA + 50% OF THE BALANCE  
\*\* 125% OF THE LARGEST MOTOR + THE BALANCE



1 EMERGENCY POWER DISTRIBUTION DIAGRAM

277/480V, 3 PHASE  
120/208V, 3 PHASE



EXPIRES 12-31-22

DISTRICT-WIDE FIRE ALARM RESILIENCY-8331 PROJECT  
 ERROL HASSELL ELEMENTARY  
 BEAVERTON S.D.  
 18100 SW BANDY ROAD  
 BEAVERTON, OR 97007

ISSUE DATE:

03-23-2022

SET TYPE:

BID

REVISIONS:

DRAWN BY:

DD

DESIGNED BY:

HB

CHECKED BY:

SL

MKE JOB #:

BV-5749

ONE-LINE  
&  
PANEL SCHEDULES

E2