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6/14/2022 12:36:03 PM

File Path

VA FORM 08 - 6231

1 2 3 4 5 6 7 8 9 10

BATTERIES POWERED HEPA FILTERED  
NEGATIVE PRESSURE WORK ENCLOSURE



RUNS ON ITS OWN POWER



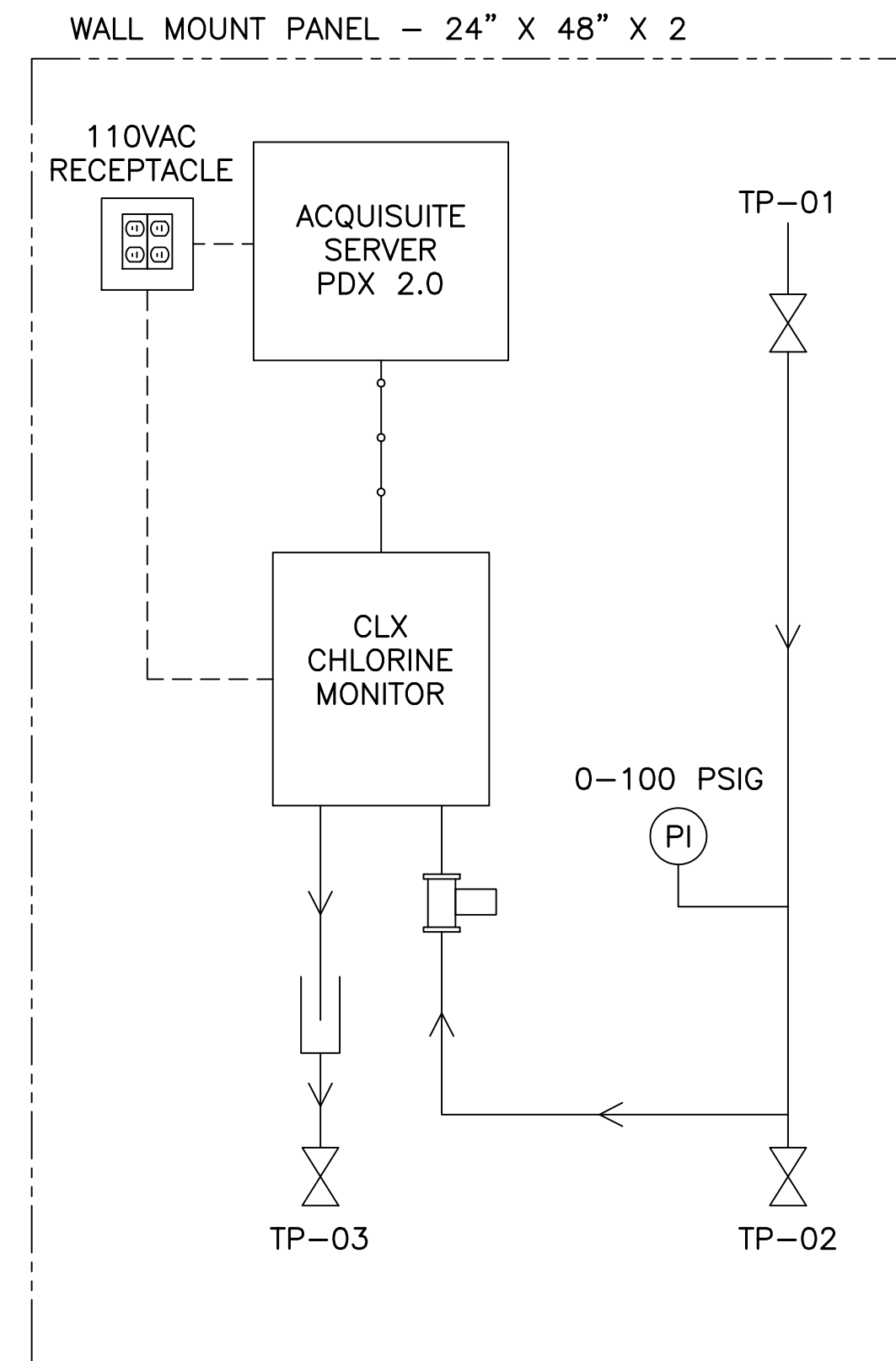
1. MOBILE CONTAINMENT UNIT SHOWN IN DETAIL 1/PL-501 IS FOR REFERENCE ONLY. ANY MANUFACTURER FOR A CONTAINMENT UNIT CAN BE UTILIZED AS LONG AS IT HAS SUFFICIENT HEPA FILTRATION AND PROVIDES A NEGATIVE AIR ENVIRONMENT. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED PRIOR TO USE.
2. CONTRACTOR SHALL UTILIZE HEPA FILTERED MOBILE CONTAINMENT UNIT FOR COMPLETION OF WORK IN WHICH THE MOBILE CONTAINMENT UNIT SATISFIES ALL ICRA REQUIREMENTS. IN CASE MOBILE CONTAINMENT UNIT WILL NOT SATISFY ALL ICRA REQUIREMENTS CONTRACTOR SHALL PROVIDE A STATIONARY CONTAINMENT BOOTH WITH SUFFICIENT HEPA FILTRATION WHICH PROVIDES A NEGATIVE AIR ENVIRONMENT TO SATISFY ICRA REQUIREMENTS. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO USE.
3. CONTRACTOR SHALL UTILIZE TELESCOPING, HEPA-FILTERED WORK CONTAINMENT EQUIPMENT FOR ALL ABOVE CEILING WORK, WHETHER OR NOT ASBESTOS RELATED.

1 QUALITAIR HEPAZONE 24  
PL-501 HEPA FAN FILTER UNIT DETAIL  
SCALE: NO SCALE

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1 2 3 4 5 6 7 8 9 10





2

PWA BASIS OF DESIGN  
MONITORING PANEL









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PL-502

SCALE:N.T.S.

## 2/PL-502 KEYED NOTES:

- ① BACK PLATE, 1/2" THICK, BLACK PP, WITH FRP UNISTRUT FOR WALL MOUNT
- ② ONLINE RESIDUAL CHLORINE MONITOR
- ③ STRAINER, 1/4" F-NPT, INLINE, V-PATTERN, WATTS, LF27
- ④ PDX ENCLOSURE, 12"x10"x6", FRP NEMA 4X
- ⑤ PRESSURE GAUGE, 0-160 PSI, 2-1/2" 316 S.S. CASE GAUGE, LIQ FILLED, 1/4" MNPT PROCESS CONNECTION
- ⑥ RECEPTACLE NEMA 5-15 WHITE 125 VAC 15 AMPS
- ⑦ VALVE BALL, 3/8" F-NPT, 2PC, 1000 WOG, 316 S.S., TC-D2X

	BALL VALVE
	NEEDLE VALVE
	GATE VALVE
	TEE STRAINER
	SUPPLY POWER (TYP)
	PRESSURE GAUGE
	MODBUS
	ANALOG SIGNAL (4-20mA DC)

1. ALL FITTINGS AND TUBING - 316 SS,  
3/8" TUBE
2. ALL INLET/OUTLET CONNECTIONS -  
FLUSH WITH THE BACK PANEL
3. SYSTEM MOUNTED ON BLACK PP  
PANEL

TP-01	SYSTEM INLET - 3/8" F-NPT
TP-02	LINE DRAIN - 3/8" F-NPT
TP-03	INSTRUMENT DRAIN - 1/2" F-NPT



VA FORM 08-6231									
1	2	3	4	5	6	7	8	9	10



POWER

- A. ELECTRICAL EQUIPMENT WHICH IS TO BE REMOVED AS PER THIS CONTRACT. DISCONNECT CIRCUIT AND WIRING FROM EQUIPMENT WHICH IS TO BE REMOVED BY OTHERS. WIRING MADE OBSOLETE BY THE NEW CONSTRUCTION SHALL BE REMOVED. CONDUIT MADE OBSOLETE BY THE NEW CONSTRUCTION SHALL BE REMOVED OR SECURELY SEALED AND CAPPED ABOVE CEILINGS, BELOW FLOORS, GRADE OR IN WALLS SO THAT IT IS COMPLETELY CONCEALED AT THE COMPLETION OF THE PROJECT. PIPING AND WIRING REMOVED FROM THE EXISTING ELECTRICAL SYSTEMS SHALL NOT BE USED IN THE INSTALLATION OF THE NEW SYSTEMS.
- B. DEMOLITION INCLUDES, BUT IS NOT LIMITED TO, REMOVAL AND LEGAL DISPOSAL OF EQUIPMENT AND SYSTEMS MADE OBSOLETE AND/OR REPLACED BY NEW WORK. DEMOLITION INCLUDES RELOCATION OR REINSTALLATION, DISCONNECTIONS AND RECONNECTIONS OF SERVICES, SUPPORTS, AND SUBSEQUENT FINAL SUPPORTS, TEMPORARY CAPPING, AND ROUTING OF TEMPORARY SERVICES TO PERMIT NEW OR RENOVATION WORK TO PROCEED.
- C. THE DEMOLITION WORK INDICATED ON THE DRAWING IS INTENDED TO ASSIST THE CONTRACTOR AND GIVE GENERAL INFORMATION. NOT ALL DEMOLITION OR TEMPORARY CONNECTIONS ARE SHOWN. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND REVIEW ORIGINAL DRAWINGS IF AVAILABLE. CONTRACTOR IS RESPONSIBLE TO DETERMINE THE FULL EXTENT OF DEMOLITION, AND INCLUDE ALL REQUIRED DEMOLITION WORK IN HIS BID, WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS. NO ADDITIONAL COST WILL BE GRANTED FOR DEMOLITION. LEGALLY DISPOSE OF ALL ITEMS AND MATERIALS, EXCEPT ANY ITEMS SPECIFICALLY DESIGNATED BY THE OWNER TO BE SALVAGED. REMOVE AND REPLACE THE DESIGNATED SALVAGED EQUIPMENT IN A LOCATION DIRECTED BY THE OWNER AT NO ADDITIONAL EXPENSE.
- D. IN ALL AREAS WHERE PATCHING IS REQUIRED, THE CONTRACTOR SHALL PATCH THE SUBSURFACE WHERE THE NEW SURFACE IS TO BE FINISHED. A NEW FINISH WILL BE PROVIDED BY THE CONTRACTOR AND THE CONTRACTOR IS RESPONSIBLE TO PATCH THE SURROUNDING SURFACE TO MATCH EXISTING.
- E. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED CUTTING AND PATCHING OF EXISTING SURFACES. CONTRACTOR SHALL REMOVE/REPLACE EXISTING CEILING TILES AND GRID AS REQUIRED TO ACCOMPLISH INDICATED ELECTRICAL WORK, UNLESS SPECIFICALLY INDICATED OTHERWISE.
- F. MAINTAIN CONTINUITY OF EXISTING CIRCUITS FOR EQUIPMENT AND DEVICES TO REMAIN. IF A DEVICE OR EQUIPMENT IS REMOVED AND IS PART OF AN EXISTING CIRCUIT TO REMAIN, THE CIRCUIT SHALL BE RESTORED TO IT'S ORIGINAL CONDITION.

1. NO LIVE ELECTRICAL WORK IS PERMITTED. REFER TO 01 00 00 GENERAL REQUIREMENTS SPECIFICATIONS SECTION 1.5, #2 AND #4.
2. ALL INSTALLATIONS SHALL MEET ALL REQUIREMENTS OF THE LATEST VERSION OF THE VA ELECTRICAL DESIGN MANUAL, NEC, AND NFPA 101.
3. ALL EXISTING PANELS THAT ARE NOT LABELED WITH AN AIC VALUE CONTRACTOR SHALL ASSUME 65k AIC FOR ADDING CIRCUIT BREAKERS TO PANELS

1. FOR ALL SOLE SOURCED ITEMS: THE GENERAL CONTRACTOR SHALL BEAR ALL COSTS FOR ASSOCIATED WORK. CONTRACTOR SHALL PROVIDE A COMPLETE AND WORKING SYSTEM AT THE COMPLETION OF INSTALLATION.
2. THE INSTALLED SYSTEM SHALL BE COMPATIBLE WITH THE ASSOCIATED EXISTING SYSTEM ON THE BATAVIA VA CAMPUS. ALL SYSTEMS SHALL BE APPROVED BY THE VA COR AND SHALL MEET THE REQUIREMENTS OF THE VA DESIGN GUIDE AND NEC.
3. CONTRACTOR SHALL ENSURE A COMPLETE AND WORKING SYSTEM AT THE COMPLETION OF INSTALLATION AND SHALL PROVIDE SHOP DRAWINGS SHOWING ALL ENDPOINT DEVICES AND ASSOCIATED MATERIALS REQUIRED FOR THE INSTALLATION.
4. ALL WORK SHALL BE COORDINATED WITH THE VA COR.

VENDOR:  
DAN FAES  
U&S SERVICES  
95 STARK STREET TONAWANDA, NY 14150  
PHONE: 716-693-4490

AMP./A.	AMPERE	KHZ	KILOHERTZ
AC.	ALTERNATING CURRENT	KW	KILOWATT
A/C.	AIR CONDITION	KWH	KILOWATT HOUR
A.F.F.	ABOVE FINISHED FLOOR	KVA	KILOVOLT-AMPERE
AFG	ABOVE FINISHED GRADE	KVAR	KILOVAR
A.I.C.	AMPERES INTERRUPTING CAPACITY	KV	KILOVOLT
AL	ALUMINUM		
ARCH.	ARCHITECTURAL	LAN	LOCAL AREA NETWORK
A.R.F.	ABOVE RAISED FLOOR	LG.	LENGTH
ASY.	ASYMMETRICAL	LF	LINEAR FEET
A.T.C.	AUTOMATIC TEMPERATURE CONTROL	LT	LIGHT
ATS	AUTOMATIC TRANSFER SWITCH	LTG	LIGHTING
AUX.	AUXILIARY	LRA	LOCKED ROTOR AMPERES
		LG	LONG
B.F.S.	BELOW FINISHED CEILING	MCC	MOTOR CONTROL CENTER
BLDG.	BUILDING	M.C.	MECHANICAL CONTRACTOR
BMS	BUILDING MANAGEMENT SYSTEM	M/C	MULTI-CONDUCTOR
BKR.	BREAKER	MDS	MAIN DISTRIBUTION SWITCHBOARD
BSMT.	BASEMENT	MDP	MAIN DISTRIBUTION PANEL
		MANUF.	MANUFACTURER
C.	CENTIGRADE DEGREES	MF	MAINTENANCE FACTOR
CLG.	CEILING	MAX.	MAXIMUM
CKT.	CIRCUIT	MB	MAIN BREAKER
CB	CIRCUIT BREAKER	MECH.	MECHANICAL
CW	CLOCKWISE	MCM	THOUSAND CIRCULAR MILLS
COL.	COLUMN	MG	MOTOR GENERATOR
CONC.	CONCRETE	MTD.	MOUNTED
CCTV	CLOSED CIRCUIT TELEVISION	MIN.	MINIMUM
C.	CONDUIT	M.L.O.	MAIN LUGS ONLY
CONDR.	CONDUCTOR	MTS	MANUAL TRANSFER SWITCH
CU, FT.	CUBIC FEET		
CONTR.	CONTRACTOR		
CU.	COPPER	N.	NEUTRAL
CONST.	CONSTRUCTION	NC	NORMAL CLOSED
COAX.	COAXIAL	N.E.C.	NATIONAL ELECTRICAL CODE
COORD.	COORDINATE	NEMA	NATIONAL ELECTRICAL
CONT.	CONTINUATION		MANUFACTURERS ASSOCIATION
CMU	CONCRETE MASONRY UNIT	NIC	NOT IN CONTRACT
C.T.	CURRENT TRANSFORMER	NO	NORMALLY OPEN
		NTS	NOT TO SCALE
DEMO	DEMOLITION	NO./#	NUMBER
DISC.	DISCONNECT SWITCH	Ø	PHASE
DIV.	DIVISION	P.V.C.	POLYVINYLCHLORIDE
DN.	DOWN	PB	PULL BOX
		PNL.	PANELBOARD
EA.	EACH	P.C.	PLUMBING CONTRACTOR
E.F.	EXHAUST FAN	PRI.	PRIMARY
ELEC. CL.	ELECTRICAL CLOSET		
ELEC.	ELECTRICAL	R.	RADIUS
E.C.	ELECTRICAL CONTRACTOR	RF	RADIO FREQUENCY
ELEV/EL.	ELEVATION/ELEVATOR	REBAR.	REINFORCING BAR
EMT	ELECTRICAL METALLIC TUBING	RECEPT.	RECEPTACLE
ENT.	ENTRANCE	REQ'D	REQUIRED
ENCL.	ENCLOSURE	REV.	REVISE/REVISION
EQ.	EQUAL	REC.	RECESSED
EQUIP.	EQUIPMENT	R.S.W.	REMOTE CONTROL SWITCH
E.W.	EACH WAY	RGS	RIGID GALVANIZED STEEL CONDUIT
EXT.	EXTERNAL/EXTERIOR		
		SECT.	SECTION
F.A.	FIRE ALARM	SEC.	SECONDARY
FACP	FIRE ALARM CONTROL PANEL	SERV.	SERVICE
F.	FAHRENHEIT DEGREES	1/C	SINGLE CONDUCTOR
FC	FOOTCANDLE	SK.	SKETCH
FT.	FEET	SPEC.S.	SPECIFICATIONS
F.E.	FIRE EXTINGUISHER	SQ.	SQUARE
FDN.	FOUNDATION	S.F.	SQUARE FEET
FIN.	FINISH/FINISHED	STA.	STATION
FIXT.	FIXTURE	SW.	SWITCH
FLEX.	FLEXIBLE	S.S.	STAINLESS STEEL
FL.	FLOOR	SW'BD	SWITCHBOARD
FLA	FULL LOAD AMPERES	SYM.	SYMMETRICAL
FLUOR.	FLUORESCENT	SUSP.	SUSPENDED
		SEP.	SEPARATE
GA.	GAGE/GAUGE	SHT.	SHEET
GALV.	GALVANIZED	SIG.	SIGNAL
G.C.	GENERAL CONTRACTOR	SN	SOLID NEUTRAL
GEN.	GENERATOR	SURF.	SURFACE
GND.	GROUND		
G.F.A.	GROUND FAULT INTERRUPTER	THRU	THROUGH
G.R.S.C.	GALVANIZED RIGID STEEL CONDUIT	TEL.	TELEPHONE
		TRANSF./XFMR	TRANSFORMER
HT.	HEIGHT	TYP.	TYPICAL
H.I.D.	HIGH INTENSITY DISCHARGE		
HORIZ.	HORIZONTAL	U.O.C.	UNLESS OTHERWISE NOTED
H.O.A.	HAND OFF AUTO	U.R.F.	UNDER RAISED FLOOR
HP.	HORSEPOWER		
H.P.S.	HIGH PRESSURE SODIUM	VS.	VERSUS
HZ.	HERTZ	VERT.	VERTICAL
		VD	VOLTAGE DROP
INC.	INCANDESCENT	V.	VOLTAGE/VOLTS
IMC	INTERMEDIATE CONDUIT		
ISOL.	ISOLATED	WP	WEATHERPROOF
INSUL.	INSULATION/INSULATED	WD.	WIDE
		W/	WITH
J	JUNCTION BOX	W/O	WITHOUT
		W/I	WROUGHT IRON

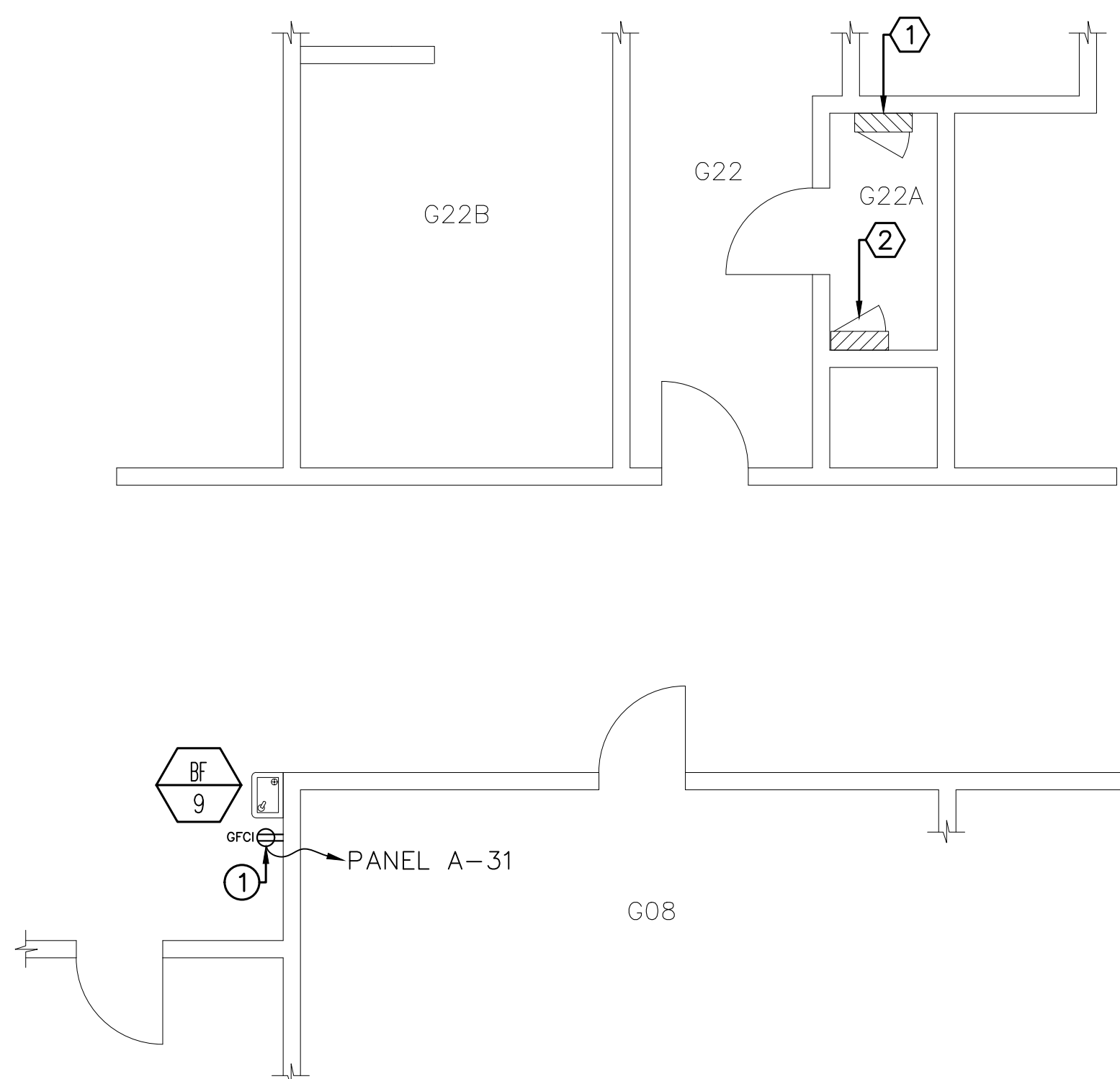
NOTE: NOT ALL SYMBOLS, NOTES, AND ABBREVIATIONS ARE USED

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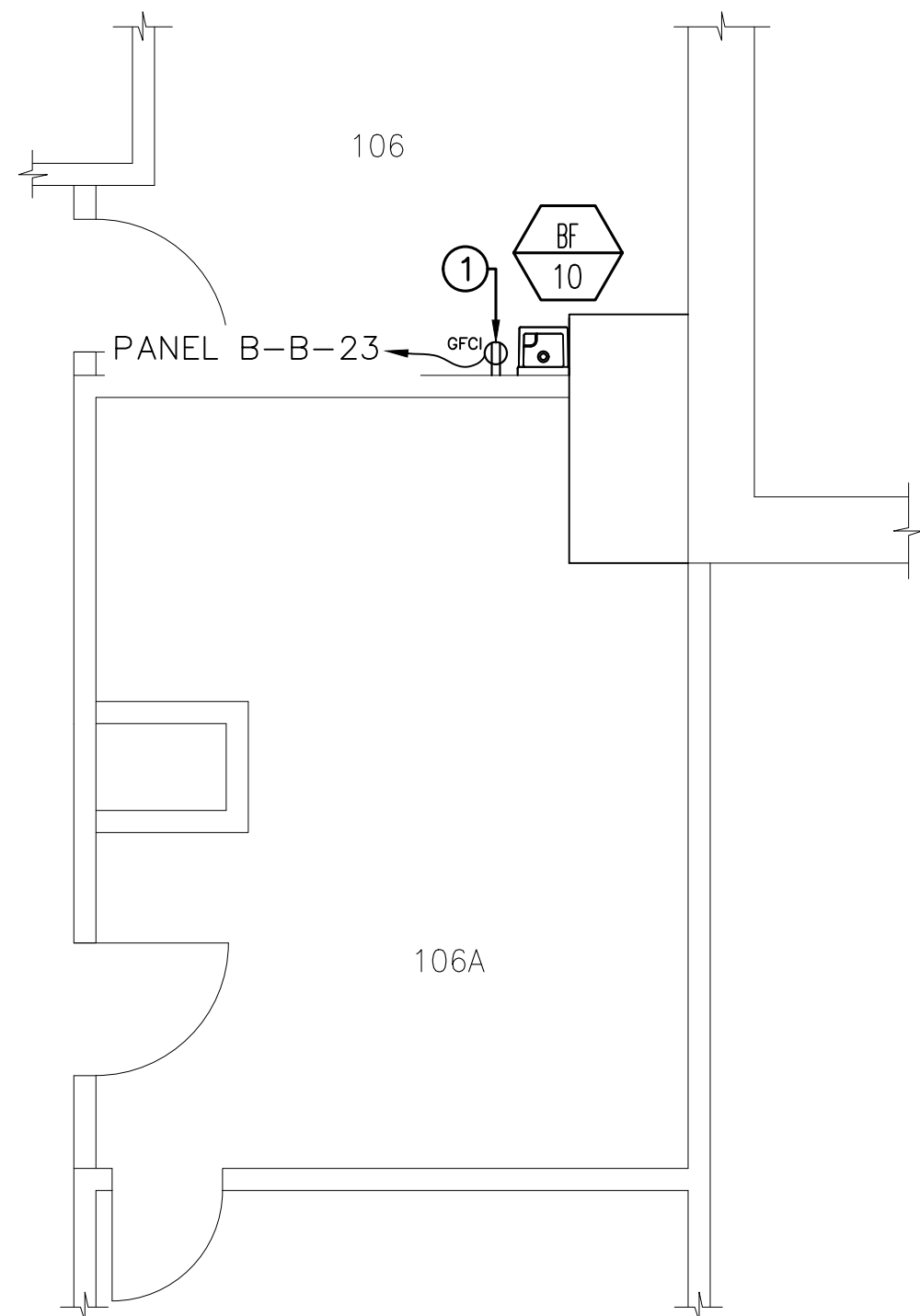
PROJECT NORTH

1

E-102

BUILDING 2 GROUND FLOOR  
CORRIDOR & ROOM G22A

SCALE: 1/4" = 1'-0"



PROJECT NORTH

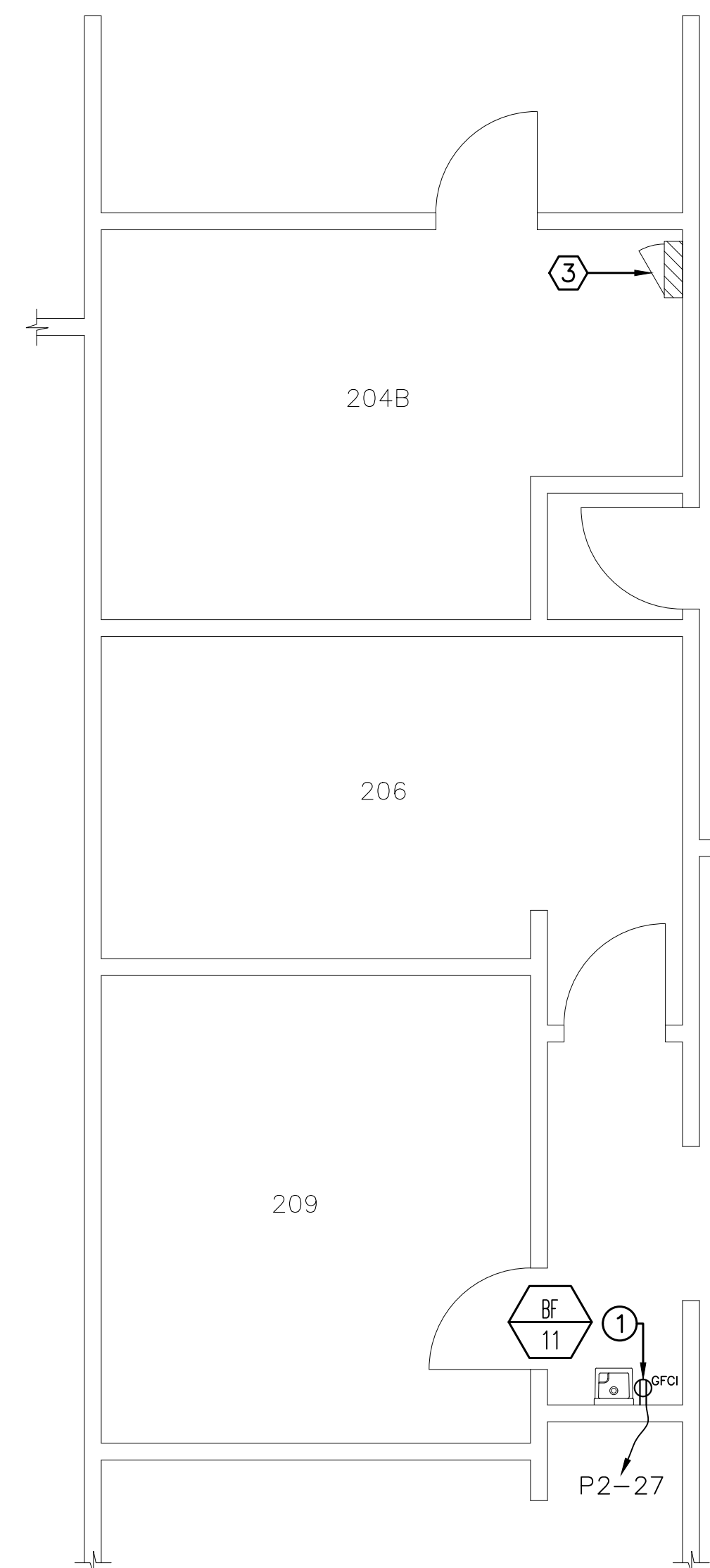
N

2

E-102

BUILDING 2 FIRST FLOOR ROOM 106

SCALE: 1/4" = 1'-0"



PROJECT NORTH

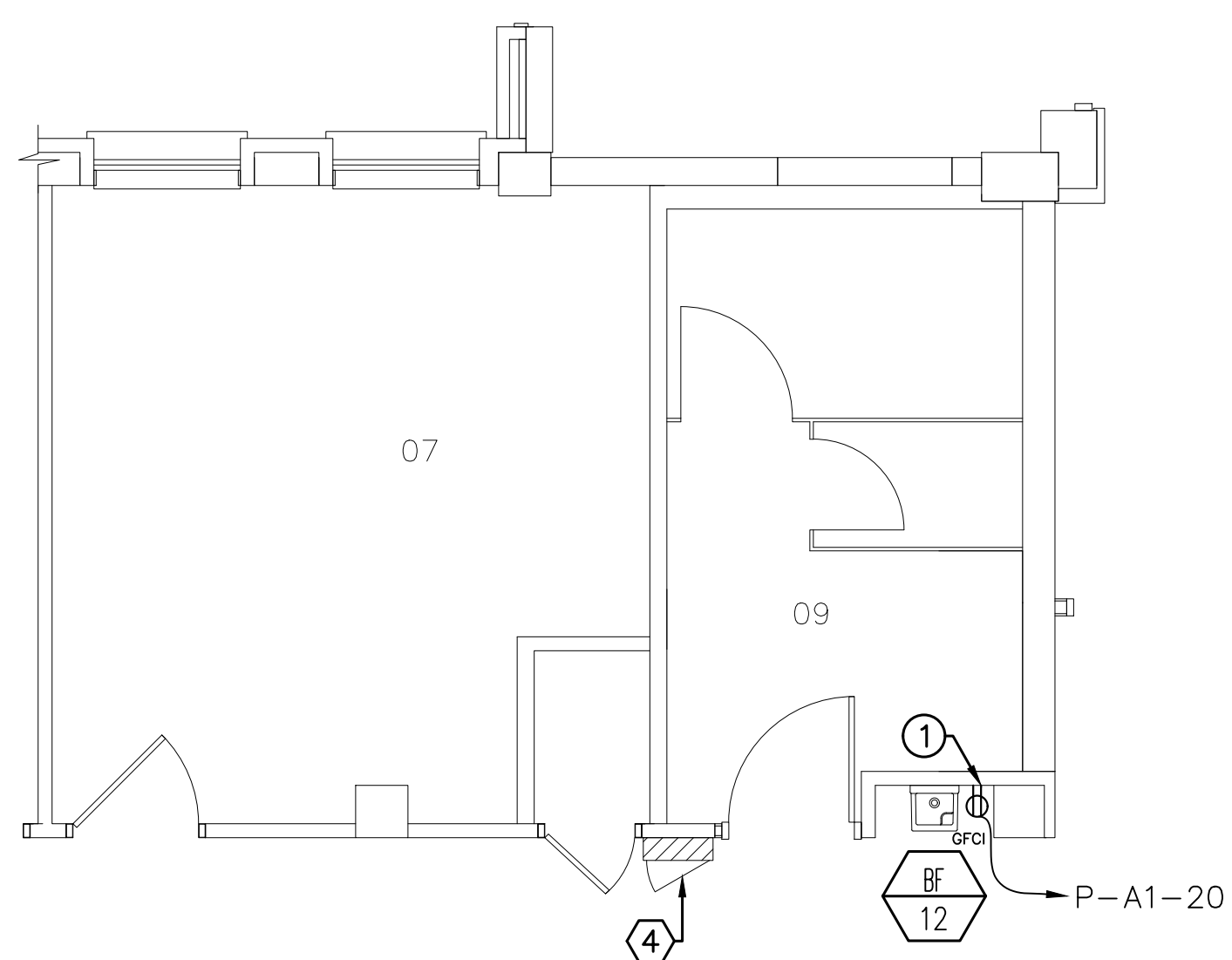
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3

E-102

BUILDING 2 SECOND FLOOR CORRIDOR

SCALE: 1/4" = 1'-0"



PROJECT NORTH

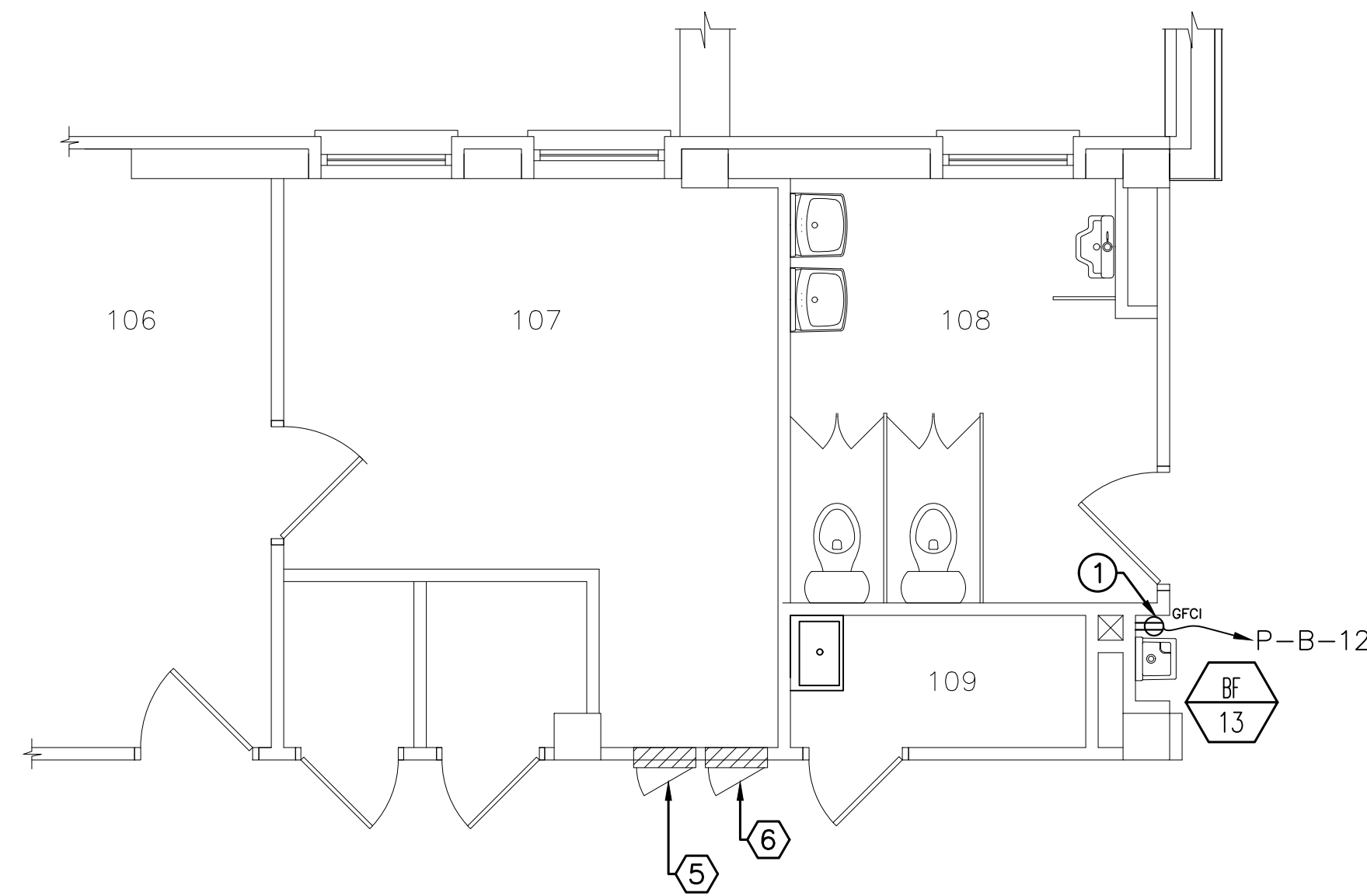
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4

E-102

BUILDING 3  
BASEMENT CORRIDOR

SCALE: 1/4" = 1'-0"



PROJECT NORTH

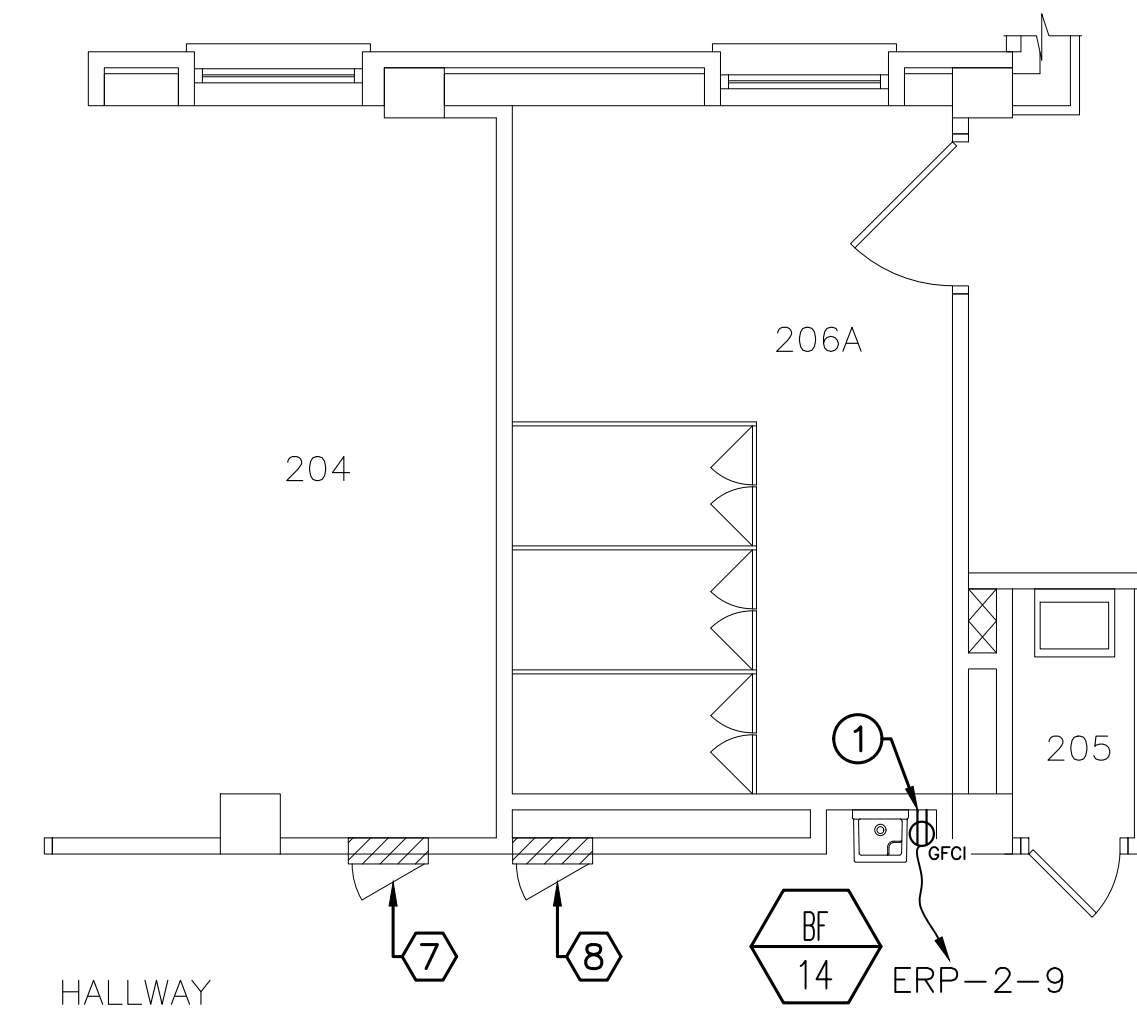
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5

E-102

BUILDING 3 FIRST FLOOR CORRIDOR

SCALE: 1/4" = 1'-0"



PROJECT NORTH

N

6

E-102

BUILDING 3 SECOND FLOOR CORRIDOR

SCALE: 1/4" = 1'-0"

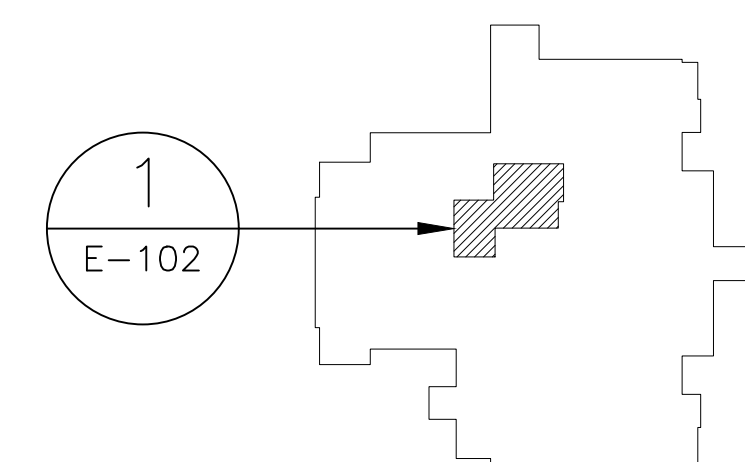
## GENERAL NOTES:

1. WATER METERING/ALARM FINAL LOCATIONS AND CONNECTIONS SHALL BE FIELD COORDINATED AND APPROVED BY THE COR.
2. SEE PLUMBING NEW WORK PLANS FOR ALL PLUMBING EQUIPMENT INSTALLATIONS.
3. ALL PROVIDED CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER AND HAVE AN AIC RATING EQUAL TO THE PANEL IN WHICH THEY ARE BEING INSTALLED.
4. CONTRACTOR SHALL COORDINATE SOURCE PANEL AND CIRCUIT NUMBER WITH THE VA COR.
5. WHERE ACCESSIBILITY IS LIMITED, CONTRACTOR SHALL PROVIDE SURFACE MOUNTED RECEPTACLES ON EXISTING WALLS. CONTRACTOR SHALL USE SURFACE METAL RACEWAY. SURFACE METAL RACEWAY SHALL BE PAINTED TO MATCH THE FINISH OF THE EXISTING WALL. ALL WORK SHALL BE APPROVED BY THE VA COR PRIOR TO INSTALLATIONS.
6. FOR ALL AREAS IN WHICH CONDUIT IS EXPOSED RGS CONDUIT SHALL BE INSTALLED. FOR ALL AREAS IN WHICH CONDUIT IS CONCEALED EMT IS ACCEPTABLE FOR INSTALLATION.

KEYED NOTE:

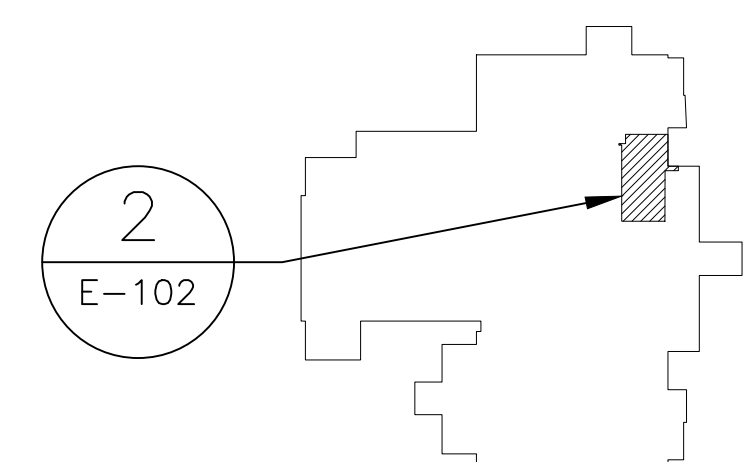
- ① REMOVE EXISTING RECEPTACLE. PROVIDE HOSPITAL GRADE GFCI RECEPTACLE FOR BOTTLE FILLER (SEE PLUMBING NEW WORK PLANS). RECEPTACLES SHALL BE IVORY AND HAVE A STAINLESS-STEEL WALL PLATE COVER. (SEE PLUMBING NEW WORK PLANS). TIE INTO EXISTING CIRCUIT. EXISTING CONDUCTORS SHALL BE MEGGER TESTED TO ENSURE THEIR INTEGRITY PRIOR TO INSTALLATION OF THE NEW RECEPTACLE. IF THE INTEGRITY OF THE CONDUCTORS IS NOT ACCEPTABLE THEY SHALL THEN BE REMOVED AND NEW CONDUCTORS SHALL BE INSTALLED AS PER NEC REQUIREMENTS. PROVIDE 20A SINGLE POLE CIRCUIT BREAKER. PROVIDE 2-#12 CONDUCTORS AND 1-#12 GROUND IN 3/4" CONDUIT TO LOCAL PANELBOARD UNLESS NOTED OTHERWISE.

KEY PLAN TAG	PANEL NAME	VOLTAGE	PHASE	A/C RATING	MANUFACTURER
①	PANEL B (EXISTING)	208/120V	3	22K	CUTLER-HAMMER
②	PANEL A (EXISTING)	208/120V	3	22K	CUTLER-HAMMER
③	P2 (EXISTING)	208/120V	3	10K	CUTLER-HAMMER
④	P-A1 (EXISTING)	208/120V	3	100K	EATON
⑤	P-B (EXISTING)	208/120V	3	22K	EATON
⑥	ERP-1 (EXISTING)	208/120V	3	—	—
⑦	P-C (EXISTING)	208/120V	3	—	—
⑧	ERP-2 (EXISTING)	208/120V	3	10K	CUTLER-HAMMER

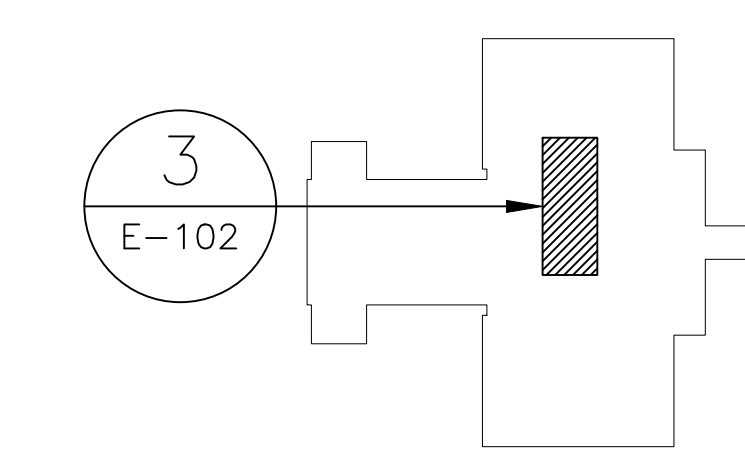


BUILDING 2 GROUND  
FLOOR KEY PLAN

SCALE: 1/64" = 1'-0"

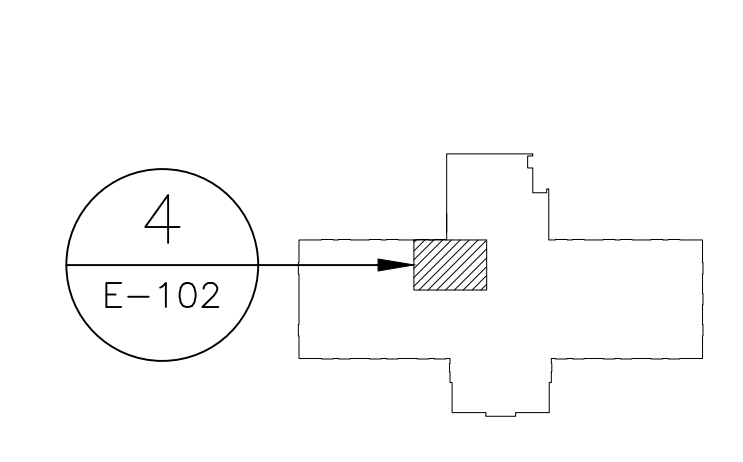




 BUILDING 2 FIRST FLOOR KEY PLAN  
 SCALE: 1/64" = 1' - 0"

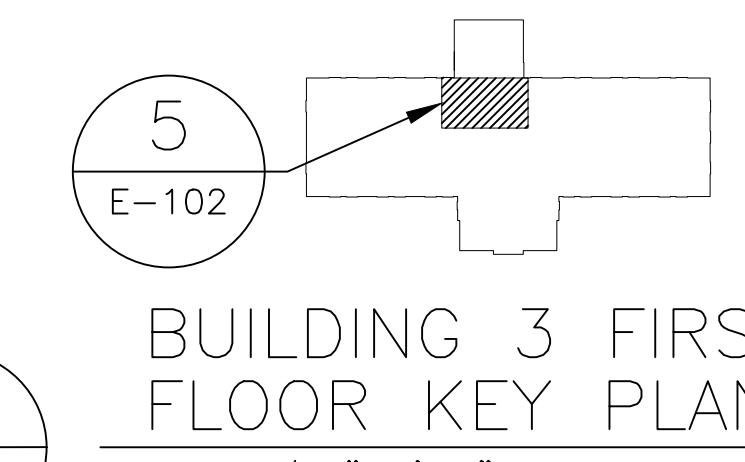


BUILDING 2 SECOND  
FLOOR KEY PLAN

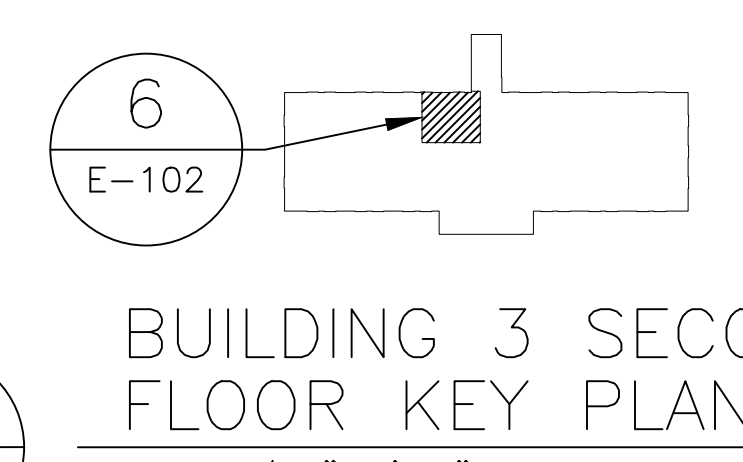
SCALE: 1/64"=1'-0"




 BUILDING 3  
 BASEMENT KEY PLAN  
 SCALE: 1/64" = 1'-0"




 BUILDING 3 FIRST FLOOR KEY PLAN  
 SCALE: 1/64" = 1'-0"



N



BUILDING 3 SECOND  
FLOOR KEY PLAN

---

SCALE: 1/64" = 1'-0"

[illegible]







A

DESIGNATION:  
PWP1  
(EXISTING)

BUS: 100A  
MAIN: 100A MCB  
MANUFACTURER: CUTLER HAMMER

VOLTAGE: 208 / 120 V 3ϕ 4W  
INTERRUPTING RATING: EXISTING  
ENCLOSURE: EXISTING

LOCATION: ROOM G5  
FED BY: CEDP  
MOUNTING: SURFACE

CKT NO	POLE	TRIP	WIRE	G	CONDUIT	LOAD	KVA ~ A	KVA ~ B	KVA ~ C	LOAD	CONDUIT	G	WIRE	TRIP	POLE	CKT NO
1	1	—	—	—	—	SPARE	—	—	—	—	—	—	—	—	—	2
3	1	—	—	—	—	SPARE	—	—	—	POWEREX COMPRESSOR	—	—	—	100	3	4
5	1	—	—	—	—	BACKFLOW PREVENTERS	—	—	—	—	—	—	—	—	—	6
7	1	—	—	—	—	SPARE	—	—	—	EXISTING	—	—	—	—	1	8
9	1	—	—	—	—	DRY SPRINKLER PRESS PUMP	—	—	—	EXISTING	—	—	—	—	1	10
11	1	—	—	—	—	WIRELESS GATEWAY	—	—	—	WATER METER	—	—	—	—	1	12
13	1	—	—	—	—	METER DEDICATED RECEP	—	—	—	B1 & B2 WATER HEATER	—	—	—	—	1	14
15	1	—	—	—	—	FP BACKFLOW PREVENTER	—	0.36	—	M.V.S. 1-C-1	3/4"	12	12	20	1	16
17	1	20	12	12	3/4"	BMS PANEL/AS-P CONTROLLER	—	—	0.18	WM 1-1	3/4"	12	12	20	1	18
ADDITIONAL KVA PER PHASE							—	0.36000	0.36000							
							ADDITIONAL CONNECTED KVA		0.720000	ADDITIONAL CONNECTED AMPERES		1.998520				

PANELBOARD NOTE:

1 PROVIDE CIRCUIT BREAKER.

B

DESIGNATION:  
PANEL DP  
(EXISTING)

BUS: 250A  
MAIN: MCB 200A  
BASIS OF DESIGN: SIEMENS S1

VOLTAGE: 208 / 120 V 3ϕ 4W  
INTERRUPTING RATING: 22K  
ENCLOSURE: NEMA 1

LOCATION: BLDG 1-ROOM G33  
FED BY: MDP-N-9  
MOUNTING: FLUSH

CKT NO	POLE	TRIP	WIRE	G	CONDUIT	LOAD	KVA ~ A	KVA ~ B	KVA ~ C	LOAD	CONDUIT	G	WIRE	TRIP	POLE	CKT NO
1	1	—	—	—	—	EXAM ROOM 05 RECEPTS	—	—	—	RM G48, G47 RECEPTS	—	—	—	—	1	2
3	1	—	—	—	—	RM G42, G43 RECEPTS	—	—	—	RM 20 RECEPTS	—	—	—	—	1	4
5	1	—	—	—	—	RM, G44, G41 RECEPTS OUTPATIENT AREA	—	—	—	RM 19 RECEPTS	—	—	—	—	1	6
7	1	—	—	—	—	RM, G37 RECEPTS	—	—	—	RM 15 RECEPTS	—	—	—	—	1	8
9	1	—	—	—	—	RM G44, G500, G50C, G35, G36 RECEPTS	—	—	—	RM G33 RECEPTS	—	—	—	—	1	10
11	1	—	—	—	—	RM, G50 WIATING AREA OUTLETS PILLARS	—	—	—	RM G55 RECEPTS	—	—	—	—	1	12
13	1	—	—	—	—	WORK STATIONS RM 03 RECEPTS	—	—	—	—	—	—	—	—	—	14
15	1	—	—	—	—	WORK STATIONS RM 03 RECEPTS	—	—	—	90 AMP ELEC. DUCT HEAT	—	—	—	—	3	16
17	1	—	—	—	—	EXAM ROOM 09 RECEPTS	—	—	—	—	—	—	—	—	—	18
19	1	—	—	—	—	FEED TO RM 31 LIGHTS IN CEILING BOX	—	—	—	A/C ROOFTOP RECEP	—	—	—	—	1	20
21	2	—	—	—	—	FOLDING DOOR MOTOR	—	—	—	ADMISSIONS RECEP	—	—	—	—	1	22
23	2	—	—	—	—	CORRIDOR SWING MOTOR	—	—	—	SPARE	—	—	—	—	1	24
25	2	—	—	—	—	G36 BASEBOARD HEATER	—	—	—	CORRIDOR 08.16 RECEPTS	—	—	—	—	1	26
27	—	—	—	—	—	—	—	—	—	LIGHTS RM G55	—	—	—	—	1	28
29	1	—	—	—	—	SPARE	—	—	—	SPARE	—	—	—	—	1	30
31	1	—	—	—	—	CANOPY LIGHTS FRONT ENT.	—	—	—	SPARE	—	—	—	—	2	32
33	1	—	—	—	—	PORCH LIGHT	—	—	—	—	—	—	—	—	—	34
35	1	—	—	—	—	RECEP. BELOW THIS PANEL	—	—	0.18	BOTTLE FILLER RECEP ROOM G50	3/4"	12	12	20	1	36
37	—	—	—	—	—	—	—	—	—	SPARE	—	—	—	—	1	38
39	3	—	—	—	—	EXHAUST FAN ROOM 03	—	—	—	OUTPATIENT AIR UNIT	—	—	—	—	2	40
41	—	—	—	—	—	—	—	—	0.18	—	—	—	—	—	—	42
ADDITIONAL KVA PER PHASE							—	—	0.18							
							ADDITIONAL CONNECTED KVA		0.18	ADDITIONAL CONNECTED AMPERES		0.50				

PANELBOARD NOTE:

1 PROVIDE CIRCUIT BREAKER.

D

E

F

DESIGNATION:  
PANEL 2  
(EXISTING)

BUS: 225A  
MAIN: MCB 225A  
BASIS OF DESIGN: CUTLER-HAMMER CC3325

VOLTAGE: 208 / 120 V 3ϕ 4W  
INTERRUPTING RATING: 10K  
ENCLOSURE: NEMA 1

LOCATION: BLDG 1-ROOM G33  
FED BY: MDP-N-9  
MOUNTING: FLUSH

CKT NO	POLE	TRIP	WIRE	G	CONDUIT	LOAD	KVA ~ A	KVA ~ B	KVA ~ C	LOAD	CONDUIT	G	WIRE	TRIP	POLE	CKT NO
1	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	2
3	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	4
5	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	6
7	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	8
9	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	10
11	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	12
13	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	14
15	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	16
17	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	18
19	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	20
21	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	22
23	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	24
25	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	26
27	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	28
29	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	30
31	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	32
33	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	34
35	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	36
37	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	38
39	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	40
41	1	—	—	—	—	EXISTING	—	—	0.18	WM 1-2	3/4"	12	12	20	1	42
ADDITIONAL KVA PER PHASE							—	—	0.18							
							ADDITIONAL CONNECTED KVA		0.18	ADDITIONAL CONNECTED AMPERES		0.50				

PANELBOARD NOTE:

1 PROVIDE CIRCUIT BREAKER.

DESIGNATION:  
BPCL1 SEC1

BUS: 225A  
MAIN: 225A  
BASIS OF DESIGN: NQ

VOLTAGE: 208 / 120 V 3ϕ 4W  
INTERRUPTING RATING: MEET OR EXCEED SOURCE PANEL  
ENCLOSURE: NEMA 3R

LOCATION: TBD  
FED BY: TBD  
MOUNTING: SURFACE

CKT NO	POLE	TRIP	WIRE	G	CONDUIT	LOAD	KVA ~ A	KVA ~ B	KVA ~ C	LOAD	CONDUIT	G	WIRE	TRIP	POLE	CKT NO
1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2
3	1	—	—	—	—	SURGE SUPPRESSOR	—	—	—	—	—	—	—	—	—	4
5	1	—	—	—	—	—	—	—	—	SPARE	—	—	—	—	—	6
7	1	—	—	—	—	SPARE	—	0.36	—	MVS 30-B-1	3/4"	12	12	20	1	8
9	1	—	—	—	—	SPARE	—	—	—	SPARE	—	—	—	—	1	10
11	1	—	—	—	—	SPARE	—	—	—	SPARE	—	—	—	—	1	12
13	1	—	—	—	—	SERVICE RECEPTACLE	—	—	—	SPARE	—	—	—	—	1	14
15	1	—	—	—	—	NURSE CALL	—	—	—	SPARE	—	—	—	—	1	16
17	1	20	12	12	3/4"	WM 30-1	—	—	0.18	SPARE	—	—	—	—	1	18
19	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	20
21	1	—	—	—	—	CONDENSATE PUMP	—	—	—	—	—	—	—	—	1	22
23	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	24
ADDITIONAL KVA PER PHASE							0.360000	—	0.180000							
							ADDITIONAL CONNECTED KVA		0.540000	ADDITIONAL CONNECTED AMPERES		1.498890				

PANELBOARD NOTE:

1 PROVIDE CIRCUIT BREAKER.

1 PROVIDE CIRCUIT BREAKER.

DESIGNATION:  
LP-B  
(EXISTING)

BUS: 225A  
MAIN: MCB  
BASIS OF DESIGN: CUTLER HAMMER PRL1A

VOLTAGE: 208 / 120 V 3ϕ 4W  
INTERRUPTING RATING: 22K  
ENCLOSURE: EXISTING

LOCATION: BLDG 1- RM B289  
FED BY: SS-1-4  
MOUNTING: SURFACE

CKT NO	POLE	TRIP	WIRE	G	CONDUIT	LOAD	KVA ~ A	KVA ~ B	KVA ~ C	LOAD	CONDUIT	G	WIRE	TRIP	POLE	CKT NO
1	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	2
3	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	4
5	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	6
7	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	8
9	2	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	10
11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12
13	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	3	14
15	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	—	16
17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18
19	3	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	3	20
21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22
23	—	—	—	—	—	—	—	—	—	EXISTING	—	—	—	—	2	24
25	3	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	26
27	—	—	—	—	—	—	—	—	—	EXISTING	—	—	—	—	1	28
29	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	30
31	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1	32
33	1	—	—	—	—	EXISTING	—	—	—	EXISTING	—	—	—	—	1</	

A

B

C

D

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F

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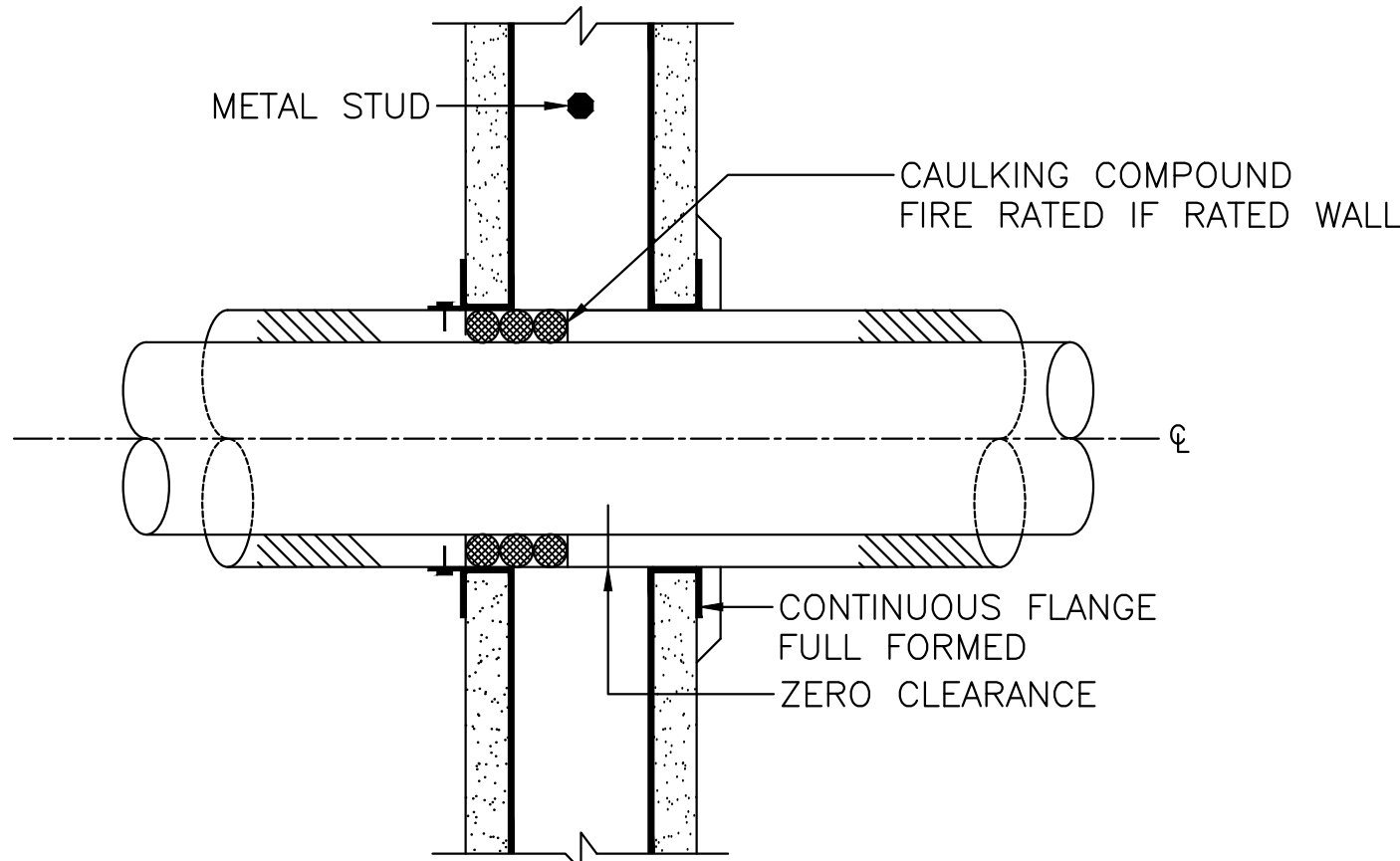
C

D

E

F

GENERAL NOTE:  
1. ALL DETAILS ARE ASSOCIATED WITH ELECTRICAL (E SERIES) AND SPECIAL SYSTEMS (EY SERIES) DRAWINGS.

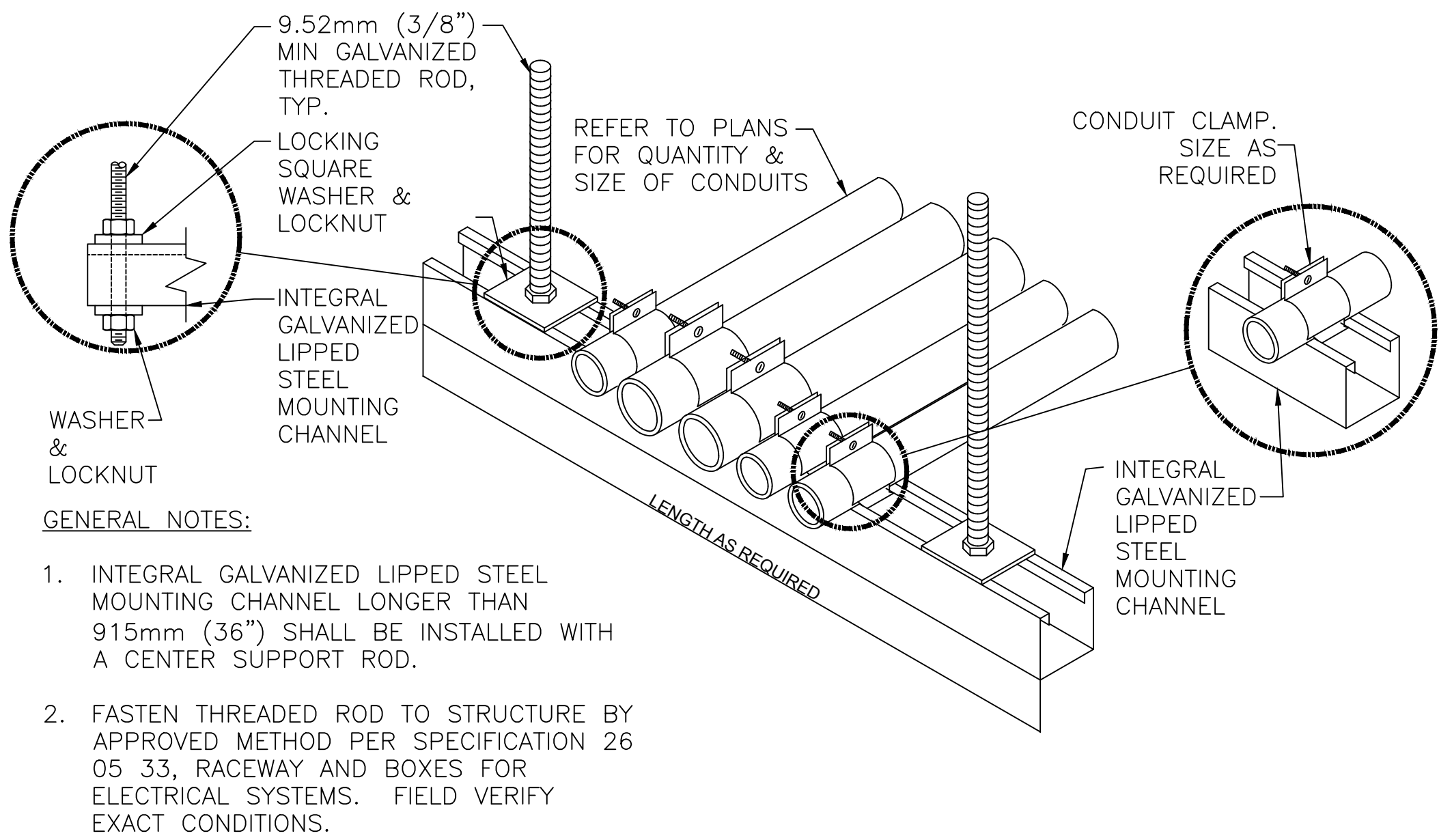


1

PIPE SLEEVE THROUGH WALL DETAIL

E-500

SCALE:N.T.S.



GENERAL NOTES:

1. INTEGRAL GALVANIZED LIPPED STEEL MOUNTING CHANNEL LONGER THAN 915mm (36") SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 05 33, RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.

2

TYPICAL CONDUIT TRAPEZE MOUNTING DETAIL

E-500

SCALE:N.T.S.

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File Path

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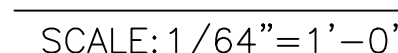
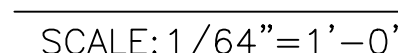
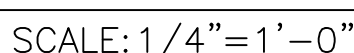
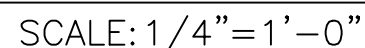


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FAX : (570) 253-1935  
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- GENERAL NOTES:
1.

ALL CONNECTIONS TO THE BUILDING MANAGEMENT SYSTEM SHALL BE COORDINATED WITH THE VA COR.
2.

CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING ALL ASSOCIATED CONNECTIONS AND ENDPOINT DEVICES TO ENSURE A COMPLETE AND WORKING SYSTEM.
3.

CONTRACTOR SHALL ENSURE A COMPLETE AND WORKING SYSTEM AT THE COMPLETION OF CONSTRUCTION.
4.

CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY TO INTEGRATE MECHANICAL EQUIPMENT BMS CONNECTIONS WITH THE EXISTING U & S SERVICES SCHNEIDER ELECTRIC SYSTEM THROUGHOUT THE FACILITY.
5.

ALL CONTROL POINTS AND MONITORING SHALL BE PROGRAMMED AND OPERATIONAL AT THE COMPLETION OF CONSTRUCTION.
6.

CONTRACTOR SHALL PROVIDE ADEQUATE TRAINING FOR VA FACILITY STAFF TO ENSURE ABILITY TO OPERATE THE PROVIDED SYSTEM.
7.

FOR ALL AREAS IN WHICH CONDUIT IS EXPOSED RGS CONDUIT SHALL BE INSTALLED. FOR ALL AREAS IN WHICH CONDUIT IS CONCEALED EMT IS ACCEPTABLE FOR INSTALLATION.
8.

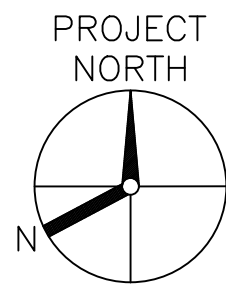
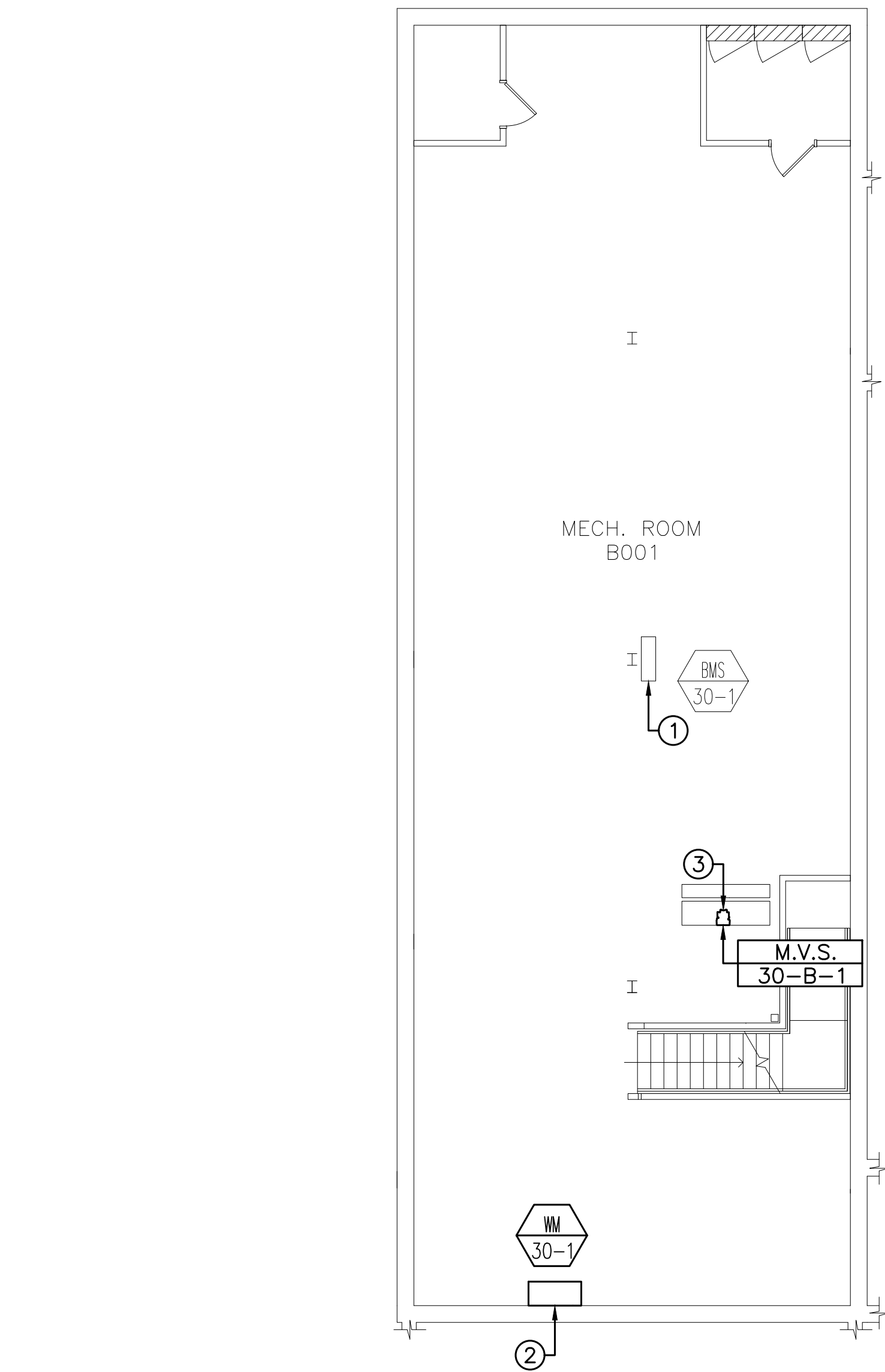
PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO MOTORS AND OTHER ELECTRICAL EQUIPMENT SUBJECT TO MOVEMENT, VIBRATION, MISALIGNMENT, CRAMPED QUARTERS, OR NOISE TRANSMISSION. FLEXIBLE METAL CONDUIT SHALL BE NO LONGER THAN 6 FT IN LENGTH. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR INSTALLATION IN EXTERIOR LOCATIONS, MOISTURE OR HUMIDITY LADEN ATMOSPHERE, CORROSIVE ATMOSPHERE, WATER OR SPRAY WASH DOWN OPERATIONS, AND LOCATIONS SUBJECT TO SEEPAGE OR DRIPPING OF OIL, GREASE, OR WATER. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE NO LONGER THAN 6 FT IN LENGTH.

- KEYED NOTES:
- ①

PROVIDE AS-P CONTROLLER IN EXISTING BMS CABINET. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING ALL ASSOCIATED ENDPOINT DEVICES AND MATERIALS REQUIRED FOR INSTALLATION TO ENSURE A COMPLETE AND WORKING SYSTEM. INCLUDING BUT NOT LIMITED TO SCHEMATIC WIRING DIAGRAM. PROVIDE CONNECTION TO LOCAL BMS SYSTEM. SEE ASSOCIATED WIRING DIAGRAM 2/EY-101.
- ②

WATER MONITORING PANEL. PROVIDE ALL ASSOCIATED CONNECTIONS TO BUILDING MANAGEMENT SYSTEM. PROVIDE ALL REQUIRED EQUIPMENT AND CONNECTIONS TO ENSURE A COMPLETE AND WORKING SYSTEM. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING ALL ASSOCIATED ENDPOINT DEVICES AND MATERIALS REQUIRED FOR INSTALLATION. INCLUDING BUT NOT LIMITED TO A SCHEMATIC WIRING DIAGRAM. SEE ASSOCIATED PARTIAL CONTROLS ONE LINE DIAGRAM 2/EY-101.
- ③

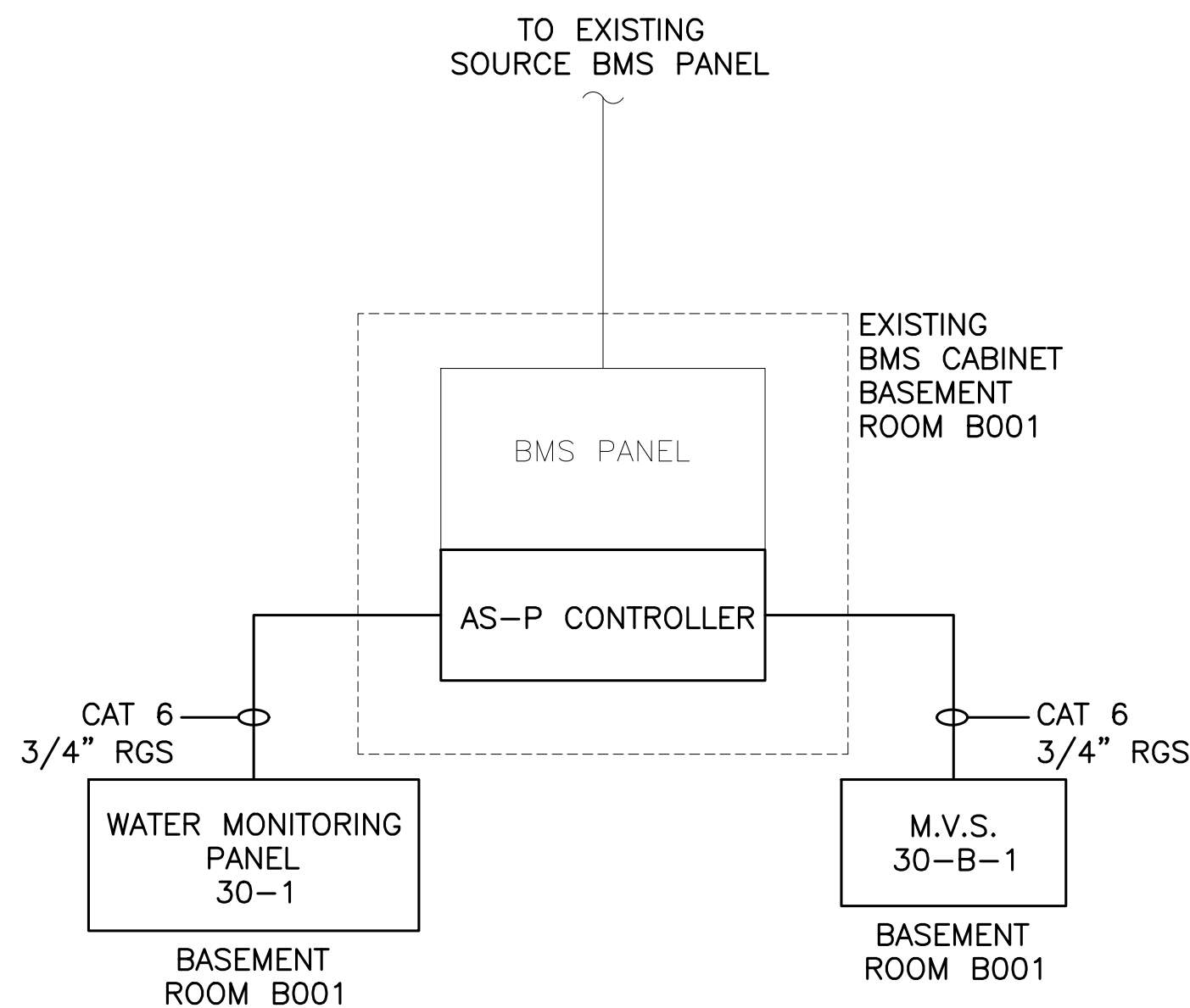
MIXING VALVE STATION. PROVIDE ALL ASSOCIATED CONNECTIONS TO BUILDING MANAGEMENT SYSTEM. PROVIDE ALL REQUIRED EQUIPMENT AND CONNECTIONS TO ENSURE A COMPLETE AND WORKING SYSTEM. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING ALL ASSOCIATED ENDPOINT DEVICES AND MATERIALS REQUIRED FOR INSTALLATION. INCLUDING BUT NOT LIMITED TO A SCHEMATIC WIRING DIAGRAM. SEE ASSOCIATED PARTIAL CONTROLS ONE LINE DIAGRAM 2/EY-101.



1  
EY-101

BUILDING 30 BASEMENT/CRAWLSPACE

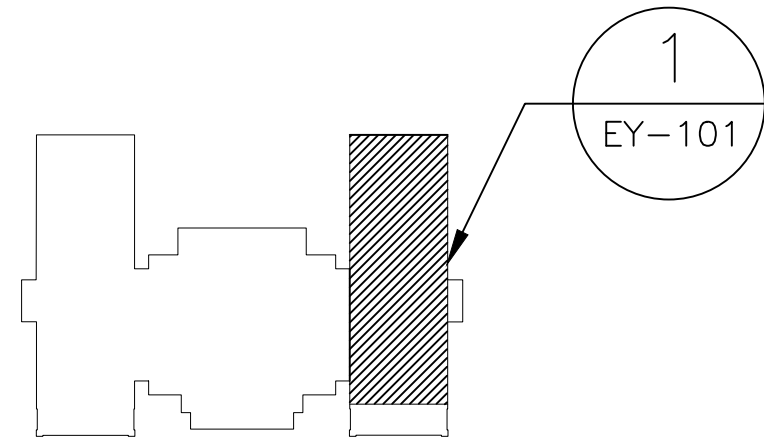
SCALE: 1/8"=1'-0"



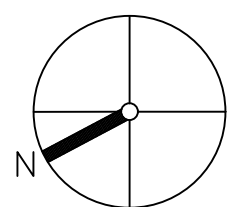
2  
EY-101

BUILDING 30 PARTIAL CONTROLS ONE-LINE DIAGRAM

SCALE: NO SCALE



1  
EY-101



BUILDING 30 BASEMENT KEY PLAN

SCALE: 1/64"=1'-0"

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JOB: 528A5-16-205 BUILDING: BUILDING 1 GROUND FLOOR ROOM G5			POINT LEGEND	SYSTEM OUTPUTS		SYSTEM INPUTS				SYSTEM SOFTWARE/CONTROL						
				BINARY	ANA- LOG	BINARY		ANALOG		ALARM PROCESSING		APPLICATION/FUNCTION				
SYSTEM: WATER MONITORING PANEL WM-1-1																

JOB: 528A5-16-205 BUILDING: BUILDING 1 THIRD FLOOR ROOM D345			POINT LEGEND	SYSTEM OUTPUTS		SYSTEM INPUTS				SYSTEM SOFTWARE/CONTROL						
				BINARY	ANA- LOG	BINARY		ANALOG		ALARM PROCESSING		APPLICATION/FUNCTION				
SYSTEM: WATER MONITORING PANEL WM-1-2																

JOB: 528A5-16-205 BUILDING: BUILDING 30 BASEMENT ROOM B001			POINT LEGEND	SYSTEM OUTPUTS		SYSTEM INPUTS			SYSTEM SOFTWARE/CONTROL						
				BINARY	ANA- LOG	BINARY		ANALOG		ALARM PROCESSING		APPLICATION/FUNCTION			
SYSTEM: WATER MONITORING PANEL WM-30-1															

1 POINTS LIST FOR DOMESTIC WATER QUALITY MONITORING  
EY-600 SCALE:N.T.S.

NOTE:  
1. SENSOR & 4-20mA SIGNAL FROM UNIT

CONTRACTOR SHALL RETAIN U&S SERVICES FOR MODIFICATIONS TO MONITORING SYSTEM. CONTACT SHALL BE DAN FAES @ U&S SERVICES - 95 STARK STREET TONAWANDA, NY 14150 TELEPHONE (716) 693 4490

BMS EQUIPMENT SCHEDULE					
EQUIPMENT	BASIS OF DESIGN	MODEL NO.	VOLTAGE	WATTS	REMARKS
IP CONTROLLER	AS-P SMART X CONTROLLER	SXWASPXXX1000	24V	10W	PROVIDE ASSOCIATED TERMINAL BASE
POWER SUPPLY MODULE	POWER SUPPLY PS-24V	SXWPS24VX1001	24V	30W	PROVIDE ASSOCIATED 120V POWER BASE SXWTBPSW110001
NOTE: ALL WORK SHALL BE COORDINATED WITH THE VA COR. CONTRACTOR SHALL ENSURE A COMPLETE AND WORKING SYSTEM AT THE COMPLETION OF CONSTRUCTION. PROVIDE SHOP DRAWINGS SHOWING ALL ASSOCIATED MATERIALS AND CONNECTIONS FOR INSTALLATION.					

DOMESTIC WATER TEMPERATURE MONITORING NOTES:

**GENERAL:**  
•THE HOT WATER TEMPERATURE SHALL BE SET TO 150°F (ADJ.) MANUALLY VIA WATER HEATER'S BLENDING VALVE.  
**DOMESTIC HOT WATER RECIRCULATION PUMPS: (TYPICAL)**  
•DOMESTIC HOT WATER RECIRCULATION PUMP SHALL BE ENABLED/DISABLED VIA A MANUAL STARTER  
•DOMESTIC HOT WATER RECIRCULATION PUMP SHALL OPERATE CONTINUOUSLY.  
•INSTALL A CURRENT STATUS SWITCH TO PROVE RECIRCULATION PUMP OPERATION.  
**DOMESTIC WATER TEMPERATURE MONITORING:**  
•INSTALL TEMPERATURE SENSORS AND DOWNSTREAM OF EACH MIXING VALVE STATION AND ALL WATER HEATERS, AND MOST REMOTE FIXTURE  
•INSTALL TEMPERATURE SENSORS IN EXISTING STORAGE TANKS.  
**ALARMS, INTERLOCKS, AND SAFETIES:**  
•SEND AN ALARM TO THE FMCS UPON THE OCCURRENCE OF ANY OF THE FOLLOWING CONDITIONS:  
•• IF A DOMESTIC (HOT) WATER RECIRCULATION PUMP CURRENT STATUS SWITCH DOES NOT PROVE PUMP OPERATION.  
•• IF ANY DOMESTIC HOT WATER SUPPLY TEMPERATURE DEVIATES 5°F (ADJ.) ABOVE OR BELOW SET POINT FOR MORE THAN 10 MINUTES (ADJ.)  
•• IF ANY DOMESTIC HOT WATER DISTRIBUTION TEMPERATURE IS BELOW 130°F (ADJ) FOR MORE THAN 10 MINUTES (ADJ.) ON THE PRIMARY HWR OR BELOW 120°F (ADJ.)FOR MORE THAN TEN MINUTES (ADJ.) ON THE FLOOR HWR.  
•• IF ANY DOMESTIC COLD WATER SUPPLY TEMPERATURE IS ABOVE 65°F (ADJ) FOR MORE THAN 10 MINUTES (ADJ.)  
**REPORT GENERATION**  
•FMCS SHALL MONITOR THE FOLLOWING POINTS ON 5 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR A 14-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL OVERWRITE THE OLDEST VALUES:  
•• DATE  
•• TIME  
•• STATUS OF ALL CIRCULATION PUMPS (ON/OFF)  
•• DOMESTIC HOT WATER CIRCULATION RETURN TEMP (F)  
•• DOMESTIC HOT WATER SUPPLY TEMP (F)  
•• DOMESTIC COLD WATER SUPPLY TEMP (F)  
•THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN TABULAR AND GRAPHICAL FORM ON THE FMCS OPERATOR INTERFACE.

JOB: 528A5-16-205 BUILDING: PLUMBING HOT WATER MONITORING DDC POINTS LIST			POINT LEGEND	SYSTEM OUTPUTS		SYSTEM INPUTS		SYSTEM SOFTWARE/CONTROL	
				BINARY	ANA- LOG	BINARY	ANALOG	ALARM PROCESSING	APPLICATION/FUNCTION
SYSTEM:  DIGITAL MIXING VALVE STATION (TYP.)									
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2 POINTS LIST FOR PLUMBING HOT WATER MONITORING  
EY-600 SCALE:NO SCALE

NOTE:  
1. SENSOR & BACnet SIGNAL FROM POWERS INTELLISTATION CONTROLLER FURNISHED WITH UNIT.

		CONSULTANT	 <div>34 BROWN STREET HONESDALE, PA 18431 OFFICE : (570) 253-0846 FAX : (570) 253-1935 WWW.NEINFRA.COM</div>	 <div>DESA</div>	<div>Office of Construction and Facilities Management</div> <div>VA U.S. Department of Veterans Affairs</div>	Drawing Title SPECIAL SYSTEMS SCHEDULES	Phase CONSTRUCTION DOCUMENTS	Project Title IMPROVE POTABLE WATER DISTRIBUTION SYSTEM	Project Number 528A4-16-205		
							Building Number N/A				
							Drawing Number EY-600				
Revisions:	Date:					Approved: Project Director VA NEW YORK HEALTHCARE SYSTEM		Location 222 RICHMOND AVENUE BATAVIA, NY 14020	Issue Date 06/08/2022	Checked D.L.E.	Drawn E.G.W.