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PLUMBING GENERAL NOTES:

- PLUMBING DRAWINGS ARE DIAGRAMATIC AND INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURALLY DRAWINGS FOR ALL DIMENSIONS.
- INSTALL ALL WORK IN ACCORDANCE WITH ALL STATE AND LOCAL PLUMBING CODES WHERE CONFLICTS OCCUR BETWEEN CODES AND BETWEEN THE CONSTRUCTION DOCUMENTS AND CODES, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- PLUMBING CONTRACTOR SHALL PAY FOR ALL INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEMS DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH THE SCOPE OF PLUMBING WORK TO BE PERFORMED.
- PLUMBING CONTRACTOR SHALL MAINTAIN A CLEAN WORK AREA AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL PLUMBING DEBRIS AT THE END OF THE DAY AND BEFORE FINAL PAYMENT IS MADE.
- ALL PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
- BEFORE SUBMITTING PROPOSAL FOR THE WORK TO BE PERFORMED, PLUMBING CONTRACTOR SHALL VISIT AND EXAMINED THE PREMISES AND SATISFIED HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH THEY WILL BE OBLIGATED TO OPERATE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OF NEGLIGENCE ON THEIR PART.
- ALL MISCELLANEOUS EQUIPMENT TO BE FURNISHED UNDER OTHER SECTIONS OF THE SPECIFICATIONS THAT REQUIRE PIPING CONNECTIONS SHALL BE RECEIVED AND SET WITH ROUGH - IN AND FINAL CONNECTIONS MADE UNDER THESE SECTIONS.
- ALL FLOOR DRAINS AND HUB DRAINS SHALL HAVE DEEP SEAL TRAPS AND TRAP PRIMERS UNLESS NOTED OTHERWISE. (MANUFACTURE: PRECISION PLUMBING PRODUCTS OR EQUAL).
- GRAVITY FLOW SYSTEMS HAVE SPACE PRIORITY FOR SLOPING PIPES, HOWEVER SLOPE MUST BE STARTED AT HIGHEST POINT POSSIBLE. PLUMBING CONTRACTOR SHALL COORDINATE ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
- FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
- FLOOR/WALL PENETRATIONS THROUGH RATED SEPARATIONS SHALL BE SEALED WITH AN APPROVED FIRE RATED MATERIAL.
- WALL PENETRATIONS THROUGH NON-RATED PARTITIONS SHALL BE SEALED WITH A NON-SHRINKING GROUT OR CAULKING MATERIAL.
- THE PLUMBING CONTRACTOR SHALL VERIFY PIPING INVERTS AND LOCATIONS PRIOR TO INSTALLATION.
- REFER TO ARCHITECTURAL DOCUMENTS FOR THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.

GENERAL ABBREVIATIONS			
NOT ALL ABBREVIATIONS APPLY TO THIS SET OF DOCUMENTS			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AD	ACCESS DOOR/PANEL	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AMB	AMBIENT	MFR	MANUFACTURER
BOB	BOTTOM OF BEAM	MIN	MINIMUM
DIA	DIAMETER	NIC	NOT IN CONTRACT
DN	DOWN	NTS	NOT TO SCALE
E	EXISTING	PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR	PSIG	POUNDS PER SQUARE INCH GAUGE
EFF	EFFICIENCY	RPM	REVOLUTIONS PER MINUTE
FPM	FEET PER MINUTE	SHT	SHEET
FPS	FEET PER SECOND	TOB	TOP OF BEAM
GC	GENERAL CONTRACTOR	TOS	TOP OF STEEL
GPM	GALLONS PER MINUTE	VEL	VELOCITY
L	LENGTH	VFD	VARIABLE FREQUENCY DRIVE
LF	LINEAR FEET		

PLUMBING SYMBOLS		
NOT ALL SYMBOLS APPLY TO THIS SET OF DOCUMENTS		
SYMBOL	DESCRIPTION	ADDITIONAL REMARKS
----	PIPING	
----	- SINGLE DASH INDICATES DOMESTIC COLD WATER	
----	- DOUBLE DASH INDICATES DOMESTIC HOT WATER	
----	- TRIPLE DASH INDICATES HOT WATER CIRCULATING	NUMBER INDICATES NOMINAL DIAMETER IN INCHES, LETTER(S) INDICATES SYSTEM. REFER TO ABBREVIATIONS FOR SYSTEM TYPE.
----	- SOLID INDICATES SANITARY ABOVE FLOOR	
----	- CONTINUOUS DASHED INDICATES VENT	
----	- LONG DASHED LINES INDICATE SANITARY BELOW FLOOR	
#RO # SF	ROOF DRAIN TAG INDICATES DRAIN SIZE IN INCHES AND AREA OF ROOF DRAINED IN SQUARE FEET	REFER TO PLUMBING FIXTURE SCHEDULE FOR TYPE.
#DSN # SF	WALL DISCHARGE (DOWNSPOUT NOZZLE) TAG INDICATES DRAIN SIZE IN INCHES AND AREA OF ROOF DRAINED IN SQUARE FEET	REFER TO PLUMBING FIXTURE SCHEDULE FOR TYPE.
FD#	FLOOR DRAIN	REFER TO PLUMBING FIXTURE SCHEDULE FOR TYPE.
—○—	CLEANOUT	CIRCLE INDICATES UP TO FLOOR OR WALL CLEANOUT. LINE INDICATES END OF PIPE CLEANOUT LOCATED ABOVE A CEILING.
—○—○—	DOUBLE GRADE CLEANOUT	REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS.

MEDICAL GAS SYMBOLS		
SYMBOL	DESCRIPTION	ADDITIONAL REMARKS
+	MEDICAL GAS OUTLET	REFER TO ABBREVIATIONS FOR GAS TYPE. PROVIDE BRACKET WITH EACH VACUUM OUTLET. REFER TO MOUNTING HEIGHTS DETAILS FOR MOUNTING ELEVATION. COORDINATE WITH ARCHITECTURAL DIVISION.
☐	ALARM / CONTROL PANEL (MASTER OR AREA)	REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING ELEVATION. REFER TO ABBREVIATIONS FOR TYPE.
○ # OF CIRCLES/PIPES INDICATES NUMBER OF VALVES. ARROW INDICATES VALVE ACCESS SIDE	ZONE VALVE BOX	REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING ELEVATION.
☐	EMERGENCY OXYGEN CONNECTION	REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING ELEVATION.
—○—	ISOLATION VALVE	REFER TO SPECIFICATIONS FOR TYPE BASED ON SIZE AND SYSTEM. LOCATE ABOVE CEILING AND PROVIDE WITH LOCKABLE HANDLE.
☒	SENSING LOCATION	XXX

LABORATORY AND MEDICAL GAS ABBREVIATIONS			
NOT ALL ABBREVIATIONS APPLY TO THIS SET OF DOCUMENTS			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	MEDICAL COMPRESSED AIR	LV	LABORATORY VACUUM
AI	MEDICAL COMPRESSED AIR INTAKE	LVE	LABORATORY VACUUM EXHAUST
AAP	AREA ALARM PANEL	MAC	MEDICAL AIR COMPRESSOR
CA	COMPRESSED AIR (NON-MEDICAL)	MAP	MASTER ALARM PANEL
C	MEDICAL CARBON DIOXIDE	MVP	MEDICAL VACUUM PUMP
DA	DENTAL AIR	N	MEDICAL NITROGEN
DAI	DENTAL AIR INTAKE	NO	MEDICAL NITROUS OXIDE
DV	DENTAL VACUUM	O	MEDICAL OXYGEN
DVE	DENTAL VACUUM EXHAUST	PRV	PRESSURE REDUCING VALVE
EOC	EMERGENCY OXYGEN CONNECTION	V	MEDICAL VACUUM
HE	MEDICAL HELIUM	VE	MEDICAL VACUUM EXHAUST
HP	HORSEPOWER	VB	VALVE BOX
IA	INSTRUMENT AIR	WAG	MEDICAL WASTE ANESTHESIA GAS DISPOSAL
IAI	INSTRUMENT AIR INTAKE	WC	WATER COLUMN
LA	LABORATORY AIR		
LAI	LABORATORY AIR INTAKE		

GENERAL PLUMBING SYMBOLS

GENERAL PLUMBING SYMBOLS		
NOT ALL SYMBOLS APPLY TO THIS SET OF DOCUMENTS		
SYMBOL	DESCRIPTION	ADDITIONAL REMARKS
Ⓔ	SHEET NOTE	DENOTES SPECIFIC REQUIREMENT FOR THE SHEET ON WHICH THE NOTE APPEARS AND IS USED TO DESCRIBE WORK THAT IS TOO LENGTHY TO PLACE ON PLAN.
----	PIPING	NUMBER INDICATES NOMINAL DIAMETER IN INCHES, LETTER(S) INDICATES SYSTEM. REFER TO ABBREVIATIONS FOR SYSTEM TYPE.
----	- SOLID LINE INDICATES SYSTEM SUPPLY	
----	- DASHED LINE INDICATES SYSTEM RETURN	
∅	DIAMETER	
☉	DENOTES CONNECTION OF NEW WORK TO EXISTING SYSTEM	PROTECT EXISTING SYSTEM FROM ENTRANCE OF FOREIGN DEBRIS DURING WORK.
→	ARROW INDICATES DIRECTION OF FLOW IN PIPING	
≡	ARROW INDICATES DOWNWARD PIPE SLOPE # INDICATES SLOPE IN INCHES PER FOOT	WHERE PIPING IS NOT MARKED, REFER TO SPECIFICATIONS FOR REQUIREMENTS
—○—	ISOLATION VALVE	REFER TO SPECIFICATIONS FOR TYPE BASED ON SIZE AND SYSTEM
— —	CHECK VALVE ARROW INDICATES DIRECTION OF NORMAL FLOW	REFER TO SPECIFICATIONS FOR TYPE BASED ON SIZE AND SYSTEM
— —	PIPE IN SLEEVE	REFER TO SPECIFICATIONS FOR TYPE BASED ON SIZE AND SYSTEM
— —	BALANCING DEVICE # INDICATES FLOW TO BE BALANCED IN GPM	CIRCUIT SETTER, AUTO/LOW, ETC. REFER TO SPECIFICATIONS FOR TYPE BASED ON SIZE AND SYSTEM
⊕	ELBOW UP	
⊕	ELBOW DOWN	
⊕	TEE UP	
⊕	TEE DOWN	
⊕	TEE HORIZONTAL	
⊕	PIPE REDUCER	INDICATES POINT WHERE PIPING CHANGES FROM ONE SIZE TO ANOTHER. SMALL POINT OF ARROW INDICATES SMALLER SIZE SIDE OF TRANSITION.
— —	UNION	
⊕	STRAINER WITH BLOW-OFF VALVE	REFER TO SPECIFICATIONS FOR TYPE AND ACCESSORIES
⊕	PRESSURE GAUGE	REFER TO SPECIFICATIONS FOR TYPE AND ACCESSORIES
⊕	THERMOMETER	REFER TO SPECIFICATIONS FOR TYPE AND ACCESSORIES
— —	REQUIRED SERVICE CLEARANCE FOR EQUIPMENT	
→	CONTINUATION SYMBOLS	FIRST SYMBOL APPLIES TO ROUND DUCT AND PIPING. SECOND SYMBOL APPLIES TO RECTANGULAR AND OVAL DUCT.

PLUMBING ABBREVIATIONS

PLUMBING ABBREVIATIONS			
NOT ALL SYMBOLS APPLY TO THIS SET OF DOCUMENTS			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
BF	BOTTLE/GLASS FILLER	HB	HOSE BIB
BFP	BACK FLOW PREVENTER	HD	HUB DRAIN
BT	BATH TUB	HP	HORSEPOWER
CA	COMPRESSED AIR (NON-MEDICAL)	L	LAVATORY
CD	CONDENSATE DRAIN	LPS	PROPANE
CO	CLEANOUT	LWT	LEAVING WATER TEMPERATURE
CP	CONDENSATE PUMP	MBH	BTU (1000'S)
CS	CLINICAL SINK	MS	MOP SINK
CV	CHEMICAL VENT	NC	NORMALLY CLOSED
CW	CHEMICAL WASTE	NO	NORMALLY OPEN
DCW	DOMESTIC COLD WATER	NPW	NON-POTABLE WATER
DF	DRINKING FOUNTAIN	PIV	POST INDICATOR VALVE
DGCO	DOUBLE GRADE CLEANOUT	PRV	PRESSURE REDUCING VALVE
DHW	DOMESTIC HOT WATER	RD	ROOF DRAIN
DHWC	DOMESTIC HOT WATER CIRCULATION	RO	REVERSE OSMOSIS WATER
DI	DEIONIZED WATER	ROC	REVERSE OSMOSIS WATER CIRCULATION
DIC	DEIONIZED WATER CIRCULATING	RPZ	REDUCED PRESSURE ZONE (BACK FLOW PREVENTER)
DH	DEIONIZED HOT WATER	S	SINK
DHIC	DEIONIZED HOT WATER CIRCULATING	SAN	SANITARY SEWER
DIS	DISTILLED WATER	SCW	DOMESTIC SOFT COLD WATER
DISC	DISTILLED WATER CIRCULATING	SHW	DOMESTIC SOFT HOT WATER
DR	DIALYSIS WATER RETURN	SHWC	DOMESTIC SOFT HOT WATER CIRCULATING
DS	DIALYSIS WATER SUPPLY	SE	SEWAGE EJECTOR
DSN	DOWNSPOUT NOZZLE	SH	SHOWER
DT	DRAIN TILE	SO	STORM OVERFLOW
EEW	EMERGENCY EYE WASH	SP	SUMP PUMP
ES	EMERGENCY SHOWER	SS	SERVICE SINK
ESEW	EMERGENCY SHOWER AND EYE WASH COMBO	ST	STORM SEWER
(E)	EXISTING	TEMP	TEMPERATURE
EW	ELECTRIC WATER COOLER	UR	URINAL
EWT	ENTERING WATER TEMPERATURE	V	VENT
F	FILTER	VTR	VENT THROUGH ROOF
FCO	FLOOR CLEANOUT	WB	WALL BOX
FD	FLOOR DRAIN	W	WASTE PIPING
FS	FLOOR SINK	WC	WATER CLOSET
G	NATURAL GAS	WCO	WALL CLEANOUT
GCO	GRADE CLEANOUT	WH	WATER HEATER
GV	GREASE VENT	WPD	WATER PRESSURE DROP
GW	GREASE WASTE	YCO	YARD CLEANOUT


SHEET INDEX - PLUMBING

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P000	PLUMBING SYMBOLS AND ABBREVIATIONS
PD000	UNDERFLOOR PLAN - PLUMBING DRAINAGE
PD001	FIRST FLOOR PLAN - PLUMBING DRAINAGE
PD002	ROOF PLAN - PLUMBING
PP000	FIRST FLOOR PLAN - PLUMBING PIPE
PP001	FIRST FLOOR PLAN - MEDICAL GAS
P400	PLUMBING RISERS AND ENLARGED PLANS
P500	PLUMBING DETAILS
P501	PLUMBING DETAILS
P502	PLUMBING UL DETAILS
P600	PLUMBING SCHEDULES
P601	PLUMBING SCHEDULES
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SHEET NAME
PLUMBING SYMBOLS AND ABBREVIATIONS

SHEET NUMBER

P000

CONSTRUCTION DOCUMENTS

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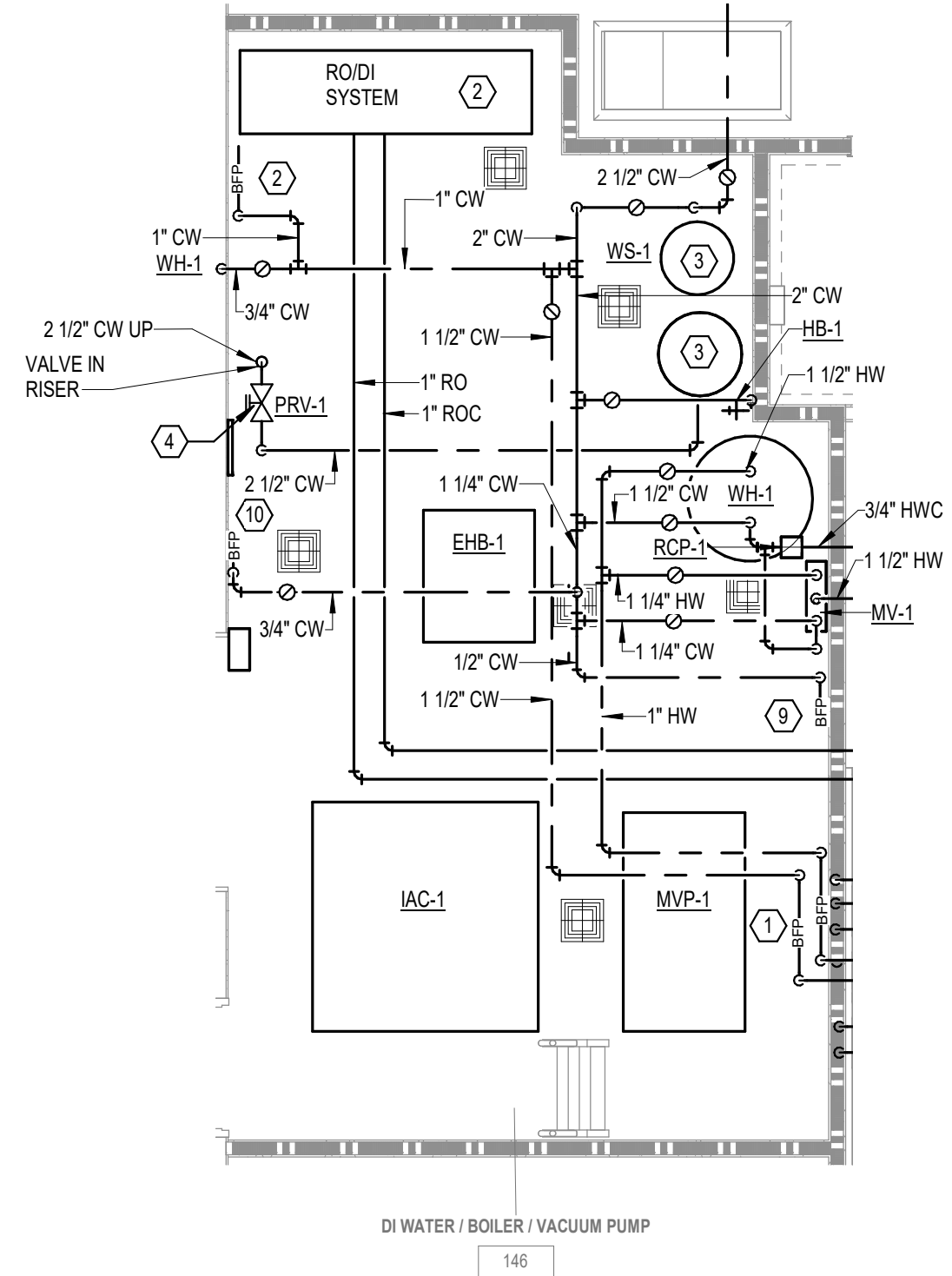
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GENERAL NOTES:

- A. COVER SHEET GENERAL NOTES APPLY TO ALL SHEETS.
- B. UNLESS NOTED OTHERWISE DETAILS SHOWN WITHIN THESE DOCUMENTS ARE APPLICABLE FOR ALL PIPING, EQUIPMENT, AND FIXTURE INSTALLATIONS WHETHER OR NOT SPECIFICALLY NOTED.
- C. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR FOR THE MEANS AND METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THIS WORK.
- D. THE PLUMBING CONTRACTOR SHALL BALANCE THE HOT WATER SYSTEM AFTER COMPLETION OF WORK.
- E. PROVIDE WATER HAMMER ARRESTERS ON ALL QUICK CLOSING VALVES AND FLUSH VALVES.
- F. PLUMBING CONTRACTOR SHALL PROVIDE ADDITIONAL BACKFLOW DEVICES AS REQUIRED BY LOCAL AHJ.
- G. ALL SANITARY PIPING IS BELOW FLOOR UNLESS NOTED OTHERWISE. ALL WATER AND VENT PIPING IS ABOVE CEILING UNLESS NOTED OTHERWISE.
- H. PLUMBING CONTRACTOR SHALL ROUGH-IN AND COORDINATE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT.
- I. REFER TO SHEET P600 "PLUMBING FIXTURE SCHEDULE" FOR PIPE SIZES TO PLUMBING FIXTURES.
- J. ALL REDUCED PRESSURE BACKFLOW PREVENTERS SHALL BE PROVIDED WITH WALL/FLOOR SUPPORT. MOUNT AT ACCESSIBLE HEIGHT FOR MAINTENANCE. DRAIN TO NEAREST FLOOR DRAIN. MANUFACTURER: WATTS 008 W/ AIR GAP FITTING OR EQUAL.

SHEET NOTES:

- 1. REDUCED PRESSURE BACKFLOW PREVENTERS TO SERVE SPD EQUIPMENT (1-1/2" DCW AND 1" DHW).
- 2. REDUCED PRESSURE BACKFLOW PREVENTER TO SERVE RODI SYSTEM MAKE-UP WATER (1" DCW). PROVIDE 1" THREADED CONNECTION FOR RODI INSTALLER TO CONNECT.
- 3. BUILDING WATER SOFTENER LOCATION, WATER QUALITY TO BE VERIFIED.
- 4. PROVIDE AND INSTALL PRESSURE REDUCING VALVE HORIZONTAL AT ACCESSIBLE HEIGHT FOR MAINTENANCE. PROVIDE WALL AND FLOOR SUPPORT. SET OUTGOING PRESSURE AT 65-70 PSI. FLOW TEST RESULTS: STATIC PRESSURE: 83 PSI, RESIDUAL PRESSURE: 80 PSI.
- 5. NOT USED.
- 6. NOT USED.
- 7. NOT USED.
- 8. NOT USED.
- 9. REDUCED PRESSURE BACKFLOW PREVENTER TO SERVE ADIABATIC HUMIDIFIER IN AHJ-OR. MECHANICAL CONTRACTOR SHALL CONNECT TO BACKFLOW PREVENTERS.
- 10. REDUCED PRESSURE BACKFLOW PREVENTER TO SERVE BOILER EQUIPMENT (3/4" DCW). MECHANICAL CONTRACTOR SHALL CONNECT TO BACKFLOW PREVENTER. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- 11. NOT USED.
- 12. NOT USED.



ENLARGED PLAN - FIRST FLOOR - MECHANICAL ROOM
1/4" = 1'-0"

RATED WALLS & PARTITIONS

FIRE BARRIER		FIRE & SMOKE BARRIER	
1-HOUR		1-HOUR	
2-HOUR		2-HOUR	
SMOKE TIGHT PARTITION		SMOKE	

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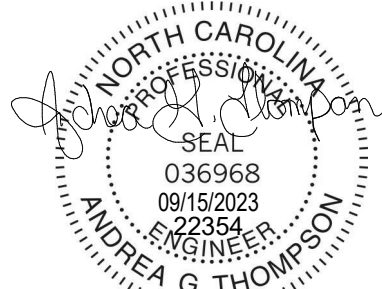
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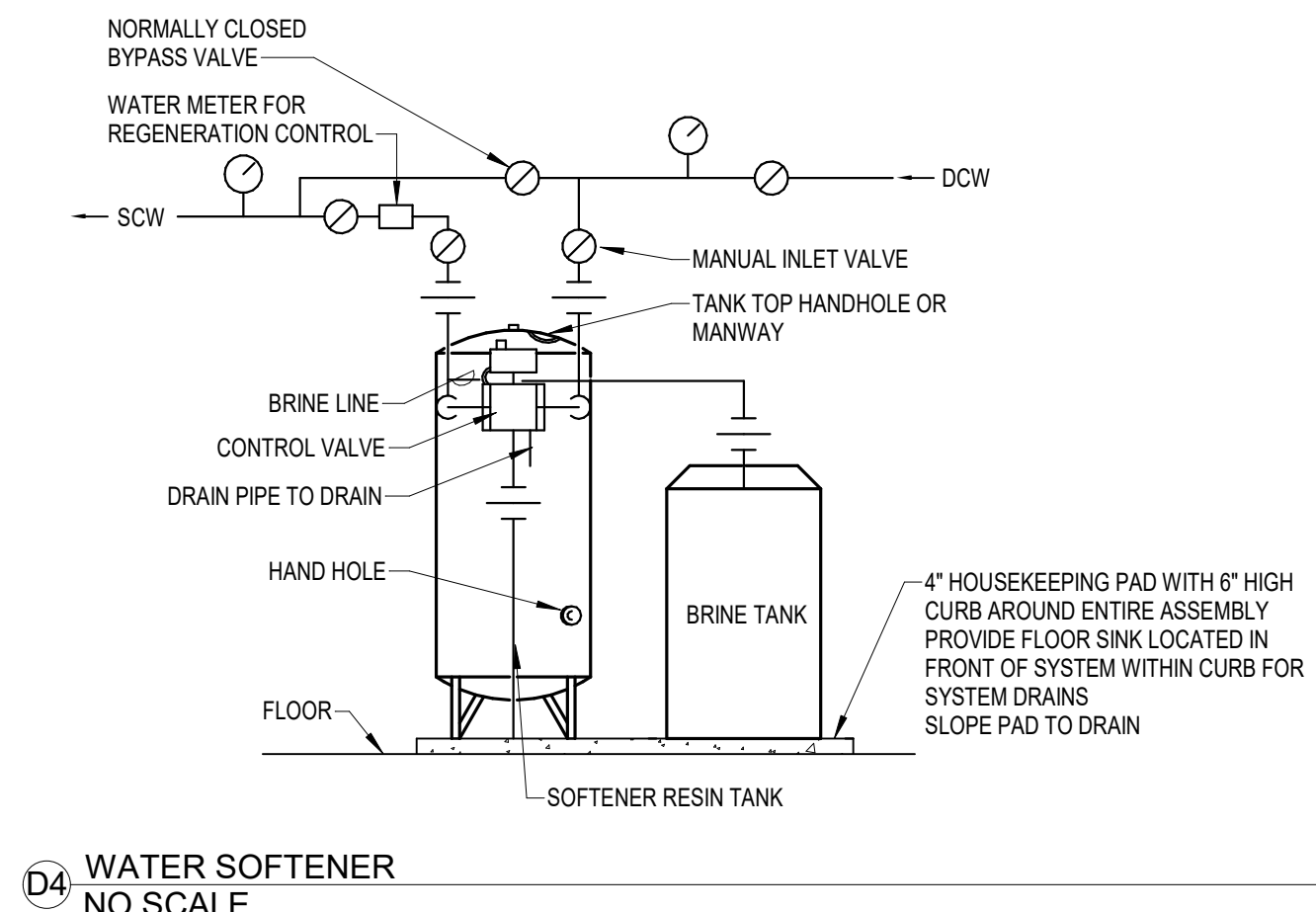
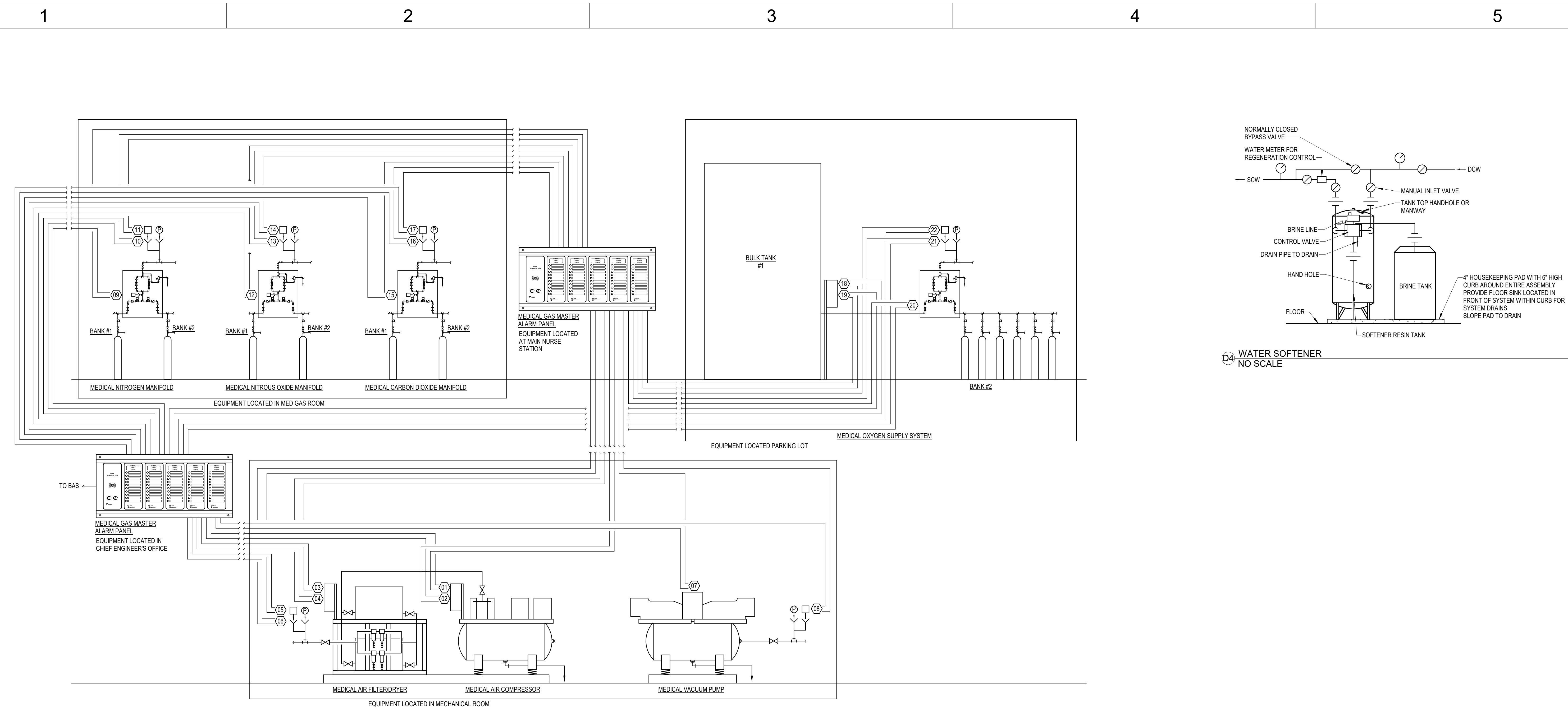
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SHEET NAME
PLUMBING RISERS AND
ENLARGED PLANS

SHEET NUMBER

P400



DIRECT DIGITAL CONTROL POINTS LIST - MEDICAL GAS SYSTEM							
POINT ID	POINT DESCRIPTION	SOURCE (1)	TYPE (2)	IO (3)	SETPOINT ADJUSTMENT (4)	ALARMS (5)	APPLICATIONS (6)
01	MEDICAL AIR SYSTEM EQUIPMENT TROUBLE	O	B	I	NO	G, C, F	E, A, G
02	RESERVE COMPRESSOR IN USE	O	B	I	NO	G, C, F	E, A, G
03	DEW POINT HIGH	O	B	I	NO	H, F	E, A, G
04	CARBON MONOXIDE HIGH	O	B	I	NO	H, F	E, A, G
05	MEDICAL AIR MAINLINE PRESSURE HIGH	O	B	I	NO	H, F	E, A, G
06	MEDICAL AIR MAINLINE PRESSURE LOW	O	B	I	NO	L, F	E, A, G
07	MEDICAL VACUUM SYSTEM EQUIPMENT TROUBLE	O	B	I	NO	G, C, F	E, A, G
08	MEDICAL VACUUM MAINLINE PRESSURE LOW	O	B	I	NO	L, F	E, A, G
09	MEDICAL NITROGEN SYSTEM CHANGEOVER TO SECONDARY SUPPLY	O	B	I	NO	G, C, F	E, A, G
10	MEDICAL NITROGEN MAINLINE PRESSURE LOW	O	B	I	NO	L, F	E, A, G
11	MEDICAL NITROGEN MAINLINE PRESSURE HIGH	O	B	I	NO	H, F	E, A, G
12	MEDICAL NITROUS OXIDE SYSTEM CHANGEOVER TO SECONDARY SUPPLY	O	B	I	NO	G, C, F	E, A, G
13	MEDICAL NITROUS OXIDE MAINLINE PRESSURE LOW	O	B	I	NO	L, F	E, A, G
14	MEDICAL NITROUS OXIDE MAINLINE PRESSURE HIGH	O	B	I	NO	H, F	E, A, G
15	MEDICAL CARBON DIOXIDE SYSTEM CHANGEOVER TO SECONDARY SUPPLY	O	B	I	NO	G, C, F	E, A, G
16	MEDICAL CARBON DIOXIDE MAINLINE PRESSURE LOW	O	B	I	NO	L, F	E, A, G
17	MEDICAL CARBON DIOXIDE MAINLINE PRESSURE HIGH	O	B	I	NO	H, F	E, A, G
18	MEDICAL OXYGEN SYSTEM EQUIPMENT TROUBLE	O	B	I	NO	G, C, F	E, A, G
19	MEDICAL OXYGEN BULK SUPPLY LOW	O	B	I	NO	G, L, F	E, A, G
20	MEDICAL OXYGEN SYSTEM CHANGEOVER TO SECONDARY SUPPLY / RESERVE IN USE	O	B	I	NO	G, C, F	E, A, G
21	MEDICAL OXYGEN MAINLINE PRESSURE LOW	O	B	I	NO	L, F	E, A, G
22	MEDICAL OXYGEN MAINLINE PRESSURE HIGH	O	B	I	NO	H, F	E, A, G

SEQUENCE OF OPERATION

DESCRIPTION:

THE MEDICAL GAS SYSTEM CONSISTS OF MEDICAL AIR COMPRESSORS, MEDICAL VACUUM PUMPS, BULK OXYGEN SUPPLY, NITROUS OXIDE MANIFOLD, NITROGEN MANIFOLD, CARBON DIOXIDE MANIFOLD, SENSORS, ALARM PANELS AND ALARM WIRING ALL PROVIDED AND INSTALLED BY THE MEDICAL GAS INSTALLING CONTRACTOR. CONTROLS CONTRACTOR SHALL PROVIDE DDC INTERFACE EQUIPMENT AND WIRING FROM DDC INTERFACE TO FACILITY DDC SYSTEM.

REQUIREMENTS:

ALL CONTROL DEVICES REQUIRED TO MONITOR THESE SYSTEMS AND ALARMS AND COMMUNICATE THEM TO THE USER INTERFACE SHALL BE POWERED USING THE LIFE SAFETY BRANCH OF THE EMERGENCY POWER SYSTEM. REFER TO ELECTRICAL DRAWINGS FOR CIRCUIT REQUIREMENTS.

ALL ALARMS ASSIGNED TO THE USER INTERFACE SHALL INCLUDE THE PRIMARY COMPUTER DISPLAY, AN AUDIBLE INDICATION AT THE PRIMARY COMPUTER DISPLAY AND ISSUANCE OF TEXT MESSAGES TO ALL ASSIGNED PERSONNEL.

ALL CONTROL DEVICES REQUIRED TO MONITOR ALARMS SHALL INCLUDE SELF DIAGNOSTICS AND SEND AN ALARM TO THE USER INTERFACE WHENEVER A FAULT OR TROUBLE IS DETERMINED.

FAILURE OF THE BAS COMMUNICATIONS WITH ANY EQUIPMENT OR DEVICES SHALL INITIATE AN ALARM TO THE USER INTERFACE.

THE ALARM ALGORITHM SHALL TAKE PRIORITY OVER ALL OTHER NON-LIFE SAFETY ALGORITHMS.

ALARMS AND MONITORING:

MONITOR ALL POINTS IDENTIFIED AND ALARM TO THE USER INTERFACE. ALARM SHALL BE ASSIGNED LIFE SAFETY PRIORITY.

GENERAL NOTES:

1. WIRE ALL SENSORS AND CONTROL DEVICES BACK TO CONTROLLER.

2. COORDINATE EQUIPMENT INTERFACES WITH OTHER TRADES.

3. WIRING DIAGRAM IS INTENDED TO BE DIAGRAMMATIC ONLY. COORDINATE LOCATIONS OF ALL PANELS, EQUIPMENT AND SENSORS WITH OTHER TRADES.

4. ALL WIRING SHALL BE INSTALLED IN METALLIC CONDUIT.

5. INDEPENDENTLY ROUTE SIGNAL WIRING FROM INDIVIDUAL DEVICES TO EACH ALARM PANEL OR DDC INTERFACE DEVICE. DO NOT COMBINE MULTIPLE DEVICE ALARMS IN A COMMON CABLE.

6. LABEL ALL CABLES AND INDIVIDUAL WIRES FOR PURPOSE SERVED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

7. ALL EQUIPMENT AND CONNECTIONS MAY NOT BE APPLICABLE TO THIS PROJECT.

A1 MEDICAL GAS SYSTEM MASTER ALARMS
NO SCALE

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SHEET NAME
PLUMBING DETAILS

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<div>D</div> <div> <table> <tr> <th colspan="15">WATER HEATER SCHEDULE</th> </tr> <tr> <th rowspan="2">MARK</th> <th rowspan="2">STORAGE CAPACITY</th> <th rowspan="2">STORAGE WATER TEMPERATURE [°F]</th> <th rowspan="2">RECOVERY (@ 100°F RISE) [GPH]</th> <th rowspan="2">DISTRIBUTION WATER TEMPERATURE [°F]</th> <th rowspan="2">MAXIMUM SYSTEM FLOW [GPM]</th> <th colspan="5">ELECTRICAL DATA</th> <th rowspan="2">MANUFACTURER</th> <th rowspan="2">MODEL</th> <th rowspan="2">REMARKS</th> </tr> <tr> <th>KW</th> <th>FLA</th> <th>VOLTAGE</th> <th>PHASE</th> <th>DISCONNECT BY</th> <th>SCCR</th> </tr> <tr> <td>WH-1</td> <td>120</td> <td>140</td> <td>147</td> <td>120</td> <td>203</td> <td>36</td> <td>43.3</td> <td>480 V</td> <td>3</td> <td>ELECTRICAL</td> <td>11.9</td> <td>AO SMTH</td> <td>DRE-120-36</td> <td>(1/12)(3)(4)(5)</td> </tr> </table> <div> REMARKS: 1. PROVIDE WITH RELIEF VALVE, DIELECTRIC CONNECTIONS, THERMOMETERS ON INLET / OUTLET, AND EXPANSION TANK. 2. PROVIDE WITH HOT WATER CIRCULATION PUMP WITH TIMECLOCK / AQUASTAT. 3. PROVIDE WITH ASSE 1017 MIXING VALVE STATION RATED FOR MINIMUM TO MAXIMUM FLOW RATE SCHEDULED. SYSTEM SHALL INTEGRATE WITH BAS, LAWLOR OR APPROVED EQUAL. 4. MOUNT ON 4" HOUSEKEEPING PAD. 5. "SCCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION. EQUIPMENT INDICATED WITH 5 KA MAY BE PROVIDED WITH 5 KA SCCR. REVIEW SCCR WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT. </div> </div> <div> <table> <tr> <th colspan="12">AREA ALARM PANEL SCHEDULE</th> </tr> <tr> <th rowspan="2">MARK</th> <th colspan="2">LOCATION</th> <th rowspan="2">V</th> <th rowspan="2">O</th> <th rowspan="2">A</th> <th rowspan="2">CO2</th> <th rowspan="2">N</th> <th rowspan="2">N2O</th> <th rowspan="2">WAGD</th> <th rowspan="2">IA</th> <th rowspan="2">REMARKS</th> </tr> <tr> <th>ROOM NAME</th> <th>ROOM NUMBER</th> </tr> <tr> <td>AP-1</td> <td>ON CHARGE + RAD TECH</td> <td>137</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(1/12)</td> </tr> <tr> <td>AP-2</td> <td>NURSE STATION</td> <td>176</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(1/12)</td> </tr> <tr> <td>AP-3</td> <td>NURSE STATION</td> <td>176</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(1/12)</td> </tr> <tr> <td>AP-4</td> <td>PREP/PAK</td> <td>140</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>(1/12)</td> </tr> <tr> <td>MAP-1</td> <td>CHECK-IN</td> <td>105</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>(1/12)</td> </tr> <tr> <td>MAP-2</td> <td>SUPERVISOR OFFICE</td> <td>164</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>(1/12)</td> </tr> </table> <div> REMARKS: 1. CONTRACTOR SHALL PROVIDE ANY AND ALL NECESSARY INTERCONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. INTERCONNECTIONS MAY INCLUDE BUT ARE NOT LIMITED TO POWER WIRING, COMMUNICATIONS WIRING, PIPING, SUPPORTS, ETC. 2. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLIANT SYSTEM. APPURTENANCES INCLUDE BUT ARE NOT LIMITED TO SENSORS, DEMAND CHECK VALVES, GAUGES, IDENTIFICATION LABELS, ETC. REFER TO PLANS, DETAILS, AND SPECIFICATIONS FOR FURTHER INFORMATION. </div> </div> <div> <table> <tr> <th colspan="12">ZONE VALVE SCHEDULE</th> </tr> <tr> <th rowspan="2">MARK</th> <th colspan="2">LOCATION</th> <th rowspan="2">O</th> <th rowspan="2">V</th> <th rowspan="2">A</th> <th rowspan="2">CO2</th> <th rowspan="2">N</th> <th rowspan="2">N2O</th> <th rowspan="2">WAGD</th> <th rowspan="2">IA</th> <th rowspan="2">REMARKS</th> </tr> <tr> <th>ROOM NAME</th> <th>ROOM NUMBER</th> </tr> <tr> <td>ZV-1</td> <td>STRETCHER / SCRUB ALOOVE</td> <td>133</td> <td>1/2</td> <td>1</td> <td>1/2</td> <td></td> <td></td> <td></td> <td>3/4</td> <td></td> <td>(1/12)</td> </tr> <tr> <td>ZV-1</td> <td>STRETCHER / SCRUB ALOOVE</td> <td>129</td> <td>1/2</td> <td>1</td> <td>1/2</td> <td></td> <td></td> <td></td> <td>3/4</td> <td></td> <td>(1/12)</td> </tr> <tr> <td>ZV-1</td> <td>STRETCHER / SCRUB ALOOVE</td> <td>130</td> <td>1/2</td> <td>1</td> <td>1/2</td> <td></td> <td></td> <td></td> <td>3/4</td> <td></td> <td>(1/12)</td> </tr> <tr> <td>ZV-1</td> <td>STRETCHER / SCRUB ALOOVE</td> <td>134</td> <td>1/2</td> <td>1</td> <td>1/2</td> <td></td> <td></td> <td></td> <td>3/4</td> <td></td> <td>(1/12)</td> </tr> <tr> <td>ZV-2</td> <td>CORRIDOR</td> <td>182</td> <td>3/4</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(1/12)</td> </tr> <tr> <td>ZV-3</td> <td>CORRIDOR</td> <td>154</td> <td>3/4</td> <td>1 1/4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(1/12)</td> </tr> <tr> <td>ZV-4</td> <td>CORRIDOR</td> <td>136</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/2</td> <td>(1/12)</td> </tr> </table> <div> REMARKS: 1. CONTRACTOR SHALL PROVIDE ANY AND ALL NECESSARY INTERCONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. INTERCONNECTIONS MAY INCLUDE BUT ARE NOT LIMITED TO PIPING, SUPPORTS, ETC. 2. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLIANT SYSTEM. APPURTENANCES INCLUDE BUT ARE NOT LIMITED TO SENSORS, DEMAND CHECK VALVES, GAUGES, IDENTIFICATION LABELS, ETC. 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REFER TO CONTROLS SCHEMATIC FOR FURTHER INTEGRATION REQUIREMENTS. </div> </div> <div> <table> <tr> <th colspan="12">PUMP SCHEDULE.</th> </tr> <tr> <th rowspan="2">MARK</th> <th rowspan="2">FLOW [GPM]</th> <th rowspan="2">TOTAL HEAD [FT]</th> <th rowspan="2">TYPE OF FLUID</th> <th rowspan="2">SUCTION / DISCHARGE SIZE [IN]</th> <th colspan="5">ELECTRICAL DATA</th> <th rowspan="2">MANUFACTURER</th> <th rowspan="2">MODEL</th> <th rowspan="2">REMARKS</th> </tr> <tr> <th>HP</th> <th>FLA</th> <th>VOLTAGE</th> <th>PHASE</th> <th>DISCONNECT BY</th> </tr> <tr> <td>RCP-1</td> <td>3.0</td> <td>20</td> <td>H2O</td> <td>3/4"</td> <td>0.265</td> <td>1.8</td> <td>115 V</td> <td>1</td> <td>ELECTRICAL CONTRACTOR</td> <td>5</td> <td>GRUNDFOS</td> <td>UPS 26-90 FC (1/12)(4)(3)(5)(6)</td> </tr> </table> <div> REMARKS: 1. PERFORMANCE BASED ON FLUID AND CONDITIONS INDICATED IN THIS SCHEDULE. 2. PROVIDE WITH THE FOLLOWING ACCESSORIES: DISCONNECT, SUCTION DIFFUSER, CHECK VALVE, VENTURI FLOW MEASURING DEVICE, FLEXIBLE CONNECTORS, UNIONS, AND TEMPERATURE AND PRESSURE GAUGES ON EACH CONNECTION. 3. PROVIDE AQUASTAT, TIMER, FLEX CONNECTORS, DISCONNECT, ECM MOTOR AND CONTROLLER. 4. ALL WETTED COMPONENTS SHALL BE NSF 61 AND NSF 372 COMPLIANT. 5. PROVIDE BASNET INTERFACE. 6. "SCCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION. EQUIPMENT INDICATED WITH 5 KA MAY BE PROVIDED WITH 5 KA SCCR. 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PROVIDE WITH THE FOLLOWING ACCESSORIES: INLET AND OUTLET PRESSURE GAUGES, INLET STRAINERS, FULL SIZE BYPASS, AND ISOLATION VALVES. </div> </div>	WATER HEATER SCHEDULE															MARK	STORAGE CAPACITY	STORAGE WATER TEMPERATURE [°F]	RECOVERY (@ 100°F RISE) [GPH]	DISTRIBUTION WATER TEMPERATURE [°F]	MAXIMUM SYSTEM FLOW [GPM]	ELECTRICAL DATA					MANUFACTURER	MODEL	REMARKS	KW	FLA	VOLTAGE	PHASE	DISCONNECT BY	SCCR	WH-1	120	140	147	120	203	36	43.3	480 V	3	ELECTRICAL	11.9	AO SMTH	DRE-120-36	(1/12)(3)(4)(5)	AREA ALARM PANEL SCHEDULE												MARK	LOCATION		V	O	A	CO2	N	N2O	WAGD	IA	REMARKS	ROOM NAME	ROOM NUMBER	AP-1	ON CHARGE + RAD TECH	137	X		X						(1/12)	AP-2	NURSE STATION	176	X	X							(1/12)	AP-3	NURSE STATION	176	X	X							(1/12)	AP-4	PREP/PAK	140								X	(1/12)	MAP-1	CHECK-IN	105	X	X	X					X	(1/12)	MAP-2	SUPERVISOR OFFICE	164	X	X	X					X	(1/12)	ZONE VALVE SCHEDULE												MARK	LOCATION		O	V	A	CO2	N	N2O	WAGD	IA	REMARKS	ROOM NAME	ROOM NUMBER	ZV-1	STRETCHER / SCRUB ALOOVE	133	1/2	1	1/2				3/4		(1/12)	ZV-1	STRETCHER / SCRUB ALOOVE	129	1/2	1	1/2				3/4		(1/12)	ZV-1	STRETCHER / SCRUB ALOOVE	130	1/2	1	1/2				3/4		(1/12)	ZV-1	STRETCHER / SCRUB ALOOVE	134	1/2	1	1/2				3/4		(1/12)	ZV-2	CORRIDOR	182	3/4	1							(1/12)	ZV-3	CORRIDOR	154	3/4	1 1/4							(1/12)	ZV-4	CORRIDOR	136								1/2	(1/12)	BOTTLE GAS MANIFOLD SCHEDULE												MARK	SERVICE	TYPE	DELIVERY PRESSURE	TOTAL NUMBER OF BOTTLES	NUMBER OF BANKS	DISTRIBUTION SYSTEM PIPE CONNECTION SIZE	MANUFACTURER	MODEL	ELECTRICAL DATA			REMARKS	VOLTAGE	PHASE	DISCONNECT BY	MA-1	MEDICAL AIR	HIGH PRESSURE	55	6	2	3/4"	BEACON MEDAES	MNE-303-ARR-A-7	120 V	1	ELECTRICAL	(1/12)(3)	O2-1	OXYGEN	HIGH PRESSURE	55	12	4	2"	BEACON MEDAES	MNE-6X6-O2-A-7	120 V	1	ELECTRICAL	(1/12)(3)	PUMP SCHEDULE.												MARK	FLOW [GPM]	TOTAL HEAD [FT]	TYPE OF FLUID	SUCTION / DISCHARGE SIZE [IN]	ELECTRICAL DATA					MANUFACTURER	MODEL	REMARKS	HP	FLA	VOLTAGE	PHASE	DISCONNECT BY	RCP-1	3.0	20	H2O	3/4"	0.265	1.8	115 V	1	ELECTRICAL CONTRACTOR	5	GRUNDFOS	UPS 26-90 FC (1/12)(4)(3)(5)(6)	PRESSURE REDUCING VALVE SCHEDULE										MARK	SERVICE	SIZE [IN]	REGULATING OR REDUCING VALVE		MANUFACTURER	MODEL	REMARKS	INLET PRESSURE	OUTLET PRESSURE	PRV-1	DOMESTIC COLD WATER	2-1/2	80	70	WATTS	LF223-S-8	(1/12)	<div><div></div></div> <div> <table> <tr> <th colspan="15">PLUMBING FIXTURE SCHEDULE</th> </tr> <tr> <th rowspan="2">MARK</th> <th rowspan="2">TYPE</th> <th rowspan="2">DESCRIPTION</th> <th colspan="4">PIPING CONNECTIONS</th> <th rowspan="2">COLD WATER</th> <th rowspan="2">HOT WATER</th> <th rowspan="2">WASTE</th> <th rowspan="2">VENT</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td>CS-1</td> <td>CLINICAL SINK</td> <td>AMERICAN STANDARD WALL HUNG CLINIC SERVICE SINK, MODEL 951269.020, WHITE VITREOUS CHINA WALL FLUSHING RIM, BLOW OUT OPERATION WITH 1-1/2" TOP SPUD, 28-30" RIM HEIGHT, FLUSH VALVE: SLOAN WES 111, MANUAL DUAL FLUSH, 1-1/2" TOP SPUD, 1.6 GPF. BED PAN WASHER: CHICAGO MODEL 910-0777-19C0P, BED PAN CLEANER WITH REMOTE PEDAL VALVE AND LOOSE KEY, WALL MOUNTED, CHROME PLATED, FULL FLOW, 25 DEGREE, MALE ROSE SPRAY, 3/4" WHITE VINYL HOSE WITH INSULATED HANDLE, INCLUDES ELEVATED VACUUM BREAKER ASSEMBLY. NOTE: PROVIDE 783204.075 FRONT STAINLESS STEEL RIM GUARD. PROVIDE WALL MOUNTED CARRIER.</td> <td>1 1/4"</td> <td>1/2"</td> <td>4"</td> <td>2"</td> </tr> <tr> <td>EW-1</td> <td>ELECTRIC WATER COOLER</td> <td>ELKAY MODEL LPR828, SWIRL FLO BLEVEL ADA FOUNTAIN FILTERED REFRIGERATED STAINLESS STEEL, WALL MOUNTED, 8.0 GPM, POWER: 115V/60HZ, FLA 4.5, WATTS 370. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE 8902 1-1/4" x 1-1/2" CAST P-TRAP AND WALL BEND. NOTE: PROVIDE WALL MOUNTED CARRIER. WOODFORD MODEL 24, ANTI-SIPHON, VACUUM BREAKER PROTECTED WALL FAUCET, LOOSE TEE KEY TYPE, CHROME FINISH.</td> <td>1/2"</td> <td>-</td> <td>2"</td> <td>1 1/2"</td> </tr> <tr> <td>HB-1</td> <td>INTERIOR HOSE BIBB</td> <td>GUY GREY MODEL MDWB18A, COMMERCIAL ICE MAKER BOX, WHITE POWDER COATED STEEL BOX WITH 3/8" COLD WATER OUTLET, 1/4 TURN SHUT OFF AND SHOCK ARRESTOR.</td> <td>1/2"</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>IMB-1</td> <td>ICE MAKER BOX</td> <td>GUY GREY MODEL MDWB18A, COMMERCIAL ICE MAKER BOX, WHITE POWDER COATED STEEL BOX WITH 3/8" COLD WATER OUTLET, 1/4 TURN SHUT OFF AND SHOCK ARRESTOR. NOTE: PLUMBING CONTRACTOR SHALL VERIFY BOX HEIGHT AND LOCATION FOR ICE MAKER.</td> <td>1/2"</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>L-1</td> <td>WALL HUNG LAVATORY (ADA)</td> <td>AMERICAN STANDARD "LUCERNE" MODEL 0356.015 21"x18" WHITE VITREOUS CHINA, WALL MTD LAVATORY WITH FRONT OVERFLOW AND 8" CENTERS FOR FAUCET. FAUCET: CHICAGO FAUCETS 786-GN2FC319XKABCP, WITH 5-1/4" RIGID/SWING GOOSENECK SPOUT, QUARTER-TURN CERAMIC DISC CARTRIDGE, 1.5 GPM VANDAL RESISTANT LAMINAR-FLO CONTROL INSERT IN SPOUT INLET AND 6" ELBOW BLADE HANDLES. DRAIN: MCQUIRE 1550C OFFSET LAVATORY GRID STRAINER. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE 8902 1-1/4" x 1-1/2" CAST P-TRAP AND WALL BEND. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS. PROVIDE CONCEALED ARM WALL MOUNTED CARRIER. PROVIDE THERMOSTAC MIXING VALVE (ASSE 1070) AT PUBLIC RESTROOMS.</td> <td>1/2"</td> <td>1/2"</td> <td>2"</td> <td>2"</td> </tr> <tr> <td>L-2</td> <td>WALL HUNG LAVATORY WITH EMERGENCY EYEWASH (ADA)</td> <td>AMERICAN STANDARD "LUCERNE" MODEL 0356.015 21"x18" WHITE VITREOUS CHINA, WALL MTD LAVATORY WITH FRONT OVERFLOW AND 8" CENTERS FOR FAUCET. FAUCET: FAUCET: SPEAKMAN SEF-1800-CA-8A-TW, FAUCET WITH EYEWASH, DECK MOUNTED GOOSENECK BODY, VANDER RESISTANT 4" WRIST BLADE HANDLES, 2.8 GPM AT 30 PSI, INVERTED DIRECTIONAL LAMINAR FLOW. MIXING VALVE: SPEAKMAN MODEL SE-370 THERMOSTAC MIXING VALVE. PROVIDE MOUNTING BRACKET. DRAIN: MCQUIRE 1550C OFFSET LAVATORY GRID STRAINER. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE 8902 1-1/4" x 1-1/2" CAST P-TRAP AND WALL BEND. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS. PROVIDE CONCEALED ARM WALL MOUNTED CARRIER.</td> <td>1/2"</td> <td>1/2"</td> <td>2</td> <td>2"</td> </tr> <tr> <td>L-3</td> <td>INTEGRAL BOWL LAVATORY (ADA)</td> <td>INTEGRAL BOWL LAVATORY BY OTHERS. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET: CHICAGO FAUCETS 420-E2805ABCP, DECK MOUNTED MANUAL SINK, SINGLE LEVER FAUCET WITH 4" CENTERS, 0.5 GPM VANDAL RESISTANT LAMINAR SPRAY. DRAIN: MCQUIRE 1550C OFFSET LAVATORY GRID STRAINER. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. 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PROVIDE CHECK VALVES ON HOT AND COLD WATER PIPING SERVING MOP SINK.</td> <td>3/4"</td> <td>3/4"</td> <td>3"</td> <td>2"</td> </tr> <tr> <td>MV-1</td> <td>MIXING VALVE</td> <td>LAWLOR MODEL 850B, 801 RECIRCULATION SYSTEM WITH ARV, MASTER WATER MIXING VALVE, THERMOSTATIC TYPE WITH LIQUID-FILLED THERMAL MOTOR, VALVE SHALL BE EQUIPPED WITH UNION AND END STOP AND CHECK INLETS WITH REMOVABLE STAINLESS STEEL STRAINERS. SYSTEM SHALL INCLUDE RETURN PIPING FOR RECIRCULATION CONNECTION AND AN AUTOMATIC RETURN VALVE (ARV) FOR THERMOSTATIC BALANCING OF THE SYSTEM. PROVIDE OPTIONAL HOSE CONNECTION FOR TESTING. NOTE: MIXING VALVE IS ASSE 1017 APPROVED.</td> <td>1"</td> <td>1"</td> <td>-</td> <td>-</td> </tr> <tr> <td>RH-1</td> <td>ROOF HYDRANT</td> <td>WOODFORD MODEL SRH4MS, EXTERIOR FREEZELESS ROOF HYDRANT.</td> <td>3/4"</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>S-1</td> <td>INTEGRAL BOWL SINK</td> <td>WOODFORD MODEL SRH4MS, EXTERIOR FREEZELESS ROOF HYDRANT. FAUCET: CHICAGO FAUCETS 786-GN2FC319XKABCP, WITH 5-1/4" RIGID/SWING GOOSENECK SPOUT, QUARTER-TURN CERAMIC DISC CARTRIDGE, 1.5 GPM VANDAL RESISTANT LAMINAR-FLO CONTROL INSERT IN SPOUT INLET AND 6" ELBOW BLADE HANDLES. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. DRAIN: MCQUIRE 151A STAINLESS STEEL BASKET STRAINER. P-TRAP: MCQUIRE NO. 8912 (1-1/2"x1-1/2") 17 GA. HEAVY CAST P-TRAP WITH CLEANOUT PLUG. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS.</td> <td>1/2"</td> <td>1/2"</td> <td>2"</td> <td>1 1/2"</td> </tr> <tr> <td>S-2</td> <td>SINK (ADA)</td> <td>ELKAY MODEL LRAD191865, 19"x18"x6.5", 18 GA. TYPE 304 STAINLESS STEEL, COUNTER MOUNTED SINK WITH PRET HOLE DRILLING, 8" CENTERS, REAR CENTER DRAIN OUTLET. FAUCET: CHICAGO FAUCETS 786-GN2FC319XKABCP, WITH 5-1/4" RIGID/SWING GOOSENECK SPOUT, QUARTER-TURN CERAMIC DISC CARTRIDGE, 1.5 GPM VANDAL RESISTANT LAMINAR-FLO CONTROL INSERT IN SPOUT INLET AND 6" ELBOW BLADE HANDLES. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. DRAIN: MCQUIRE 151A STAINLESS STEEL BASKET STRAINER. P-TRAP: MCQUIRE NO. 8912 (1-1/2"x1-1/2") 17 GA. HEAVY CAST P-TRAP WITH CLEANOUT PLUG. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS.</td> <td>1/2"</td> <td>1/2"</td> <td>2"</td> <td>1 1/2"</td> </tr> <tr> <td>S-3</td> <td>THREE COMPARTMENT SINK</td> <td>PROVIDED BY OWNER. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET: PROVIDED BY OWNER. ANGLE STOP: 1/2" WHEEL HANDLE SUPPLY STOPS. DRAIN: MCQUIRE 151A STAINLESS STEEL BASKET STRAINER. P-TRAP: 2" COPPER. DRAIN PIPING SHALL BE TYPE 1 COPPER. NOTE: EACH SINK BASIN SHALL DRAIN INDEPENDENTLY.</td> <td>1/2"</td> <td>1/2"</td> <td>2"</td> <td>2"</td> </tr> <tr> <td>SH-1</td> <td>TRANSFER TYPE SHOWER (ADA)</td> <td>COMFORT DESIGNS MODEL SSS3828BF 625, OUTSIDE DIMENSIONS 42"x37" 1/2" MAX. SOLID SURFACE, CENTER DRAIN, FOLD UP SEAT. DRAIN - PROVIDE WITH SHOWER. SHOWER VALVE: POWERS HYDROGUARD ET07-G-1-N, 1 & P MIXING VALVE, INTEGRAL SERVICE STOPS, INTEGRAL CHECK STOPS, STAINLESS STEEL HAND HELD SHOWER, 1.5 GPM, 60" METAL HOSE, IN-LINE VACUUM BREAKER. 3/8" SLIDE BAR, ASSE 1016 APPROVED, CHROME PLATED. NOTE: VERIFY SHOWER AS RIGHT OR LEFT. PROVIDE FRONT LEGS FOR FOLD UP SEAT.</td> <td>1/2"</td> <td>1/2"</td> <td>2"</td> <td>1 1/2"</td> </tr> <tr> <td>SS-1</td> <td>SCRUB SINK</td> <td>PROVIDED BY OWNER. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET: PROVIDED BY OWNER. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE NO. 8912 (1-1/2"x1-1/2") 17 GA. HEAVY CAST P-TRAP WITH CLEANOUT PLUG. NOTE: WALL CARRIER PROVIDED BY OWNER. PLUMBING CONTRACTOR TO INSTALL.</td> <td>3/4"</td> <td>3/4"</td> <td>2"</td> <td>2"</td> </tr> <tr> <td>WB-1</td> <td>WALL BOX</td> <td>GUY GREY MODEL MWB-19, WHITE POWDER COATED STEEL BOX WITH 2" CENTER DRAIN, WALL BOX TO HAVE 1-1/2" COLD WATER THREADED HOSE CONNECTION WITH 1/4" TURN SHUT OFF AND SHOCK ARRESTOR. NOTE: PLUMBING CONTRACTOR SHALL VERIFY DRAIN BOX HEIGHT AND WITH ICE MACHINE AND COFFEE MAKER LOCATION.</td> <td>1/2"</td> <td>-</td> <td>2"</td> <td>1 1/2"</td> </tr> <tr> <td>WC-1</td> <td>WATER CLOSET (ADA)</td> <td>AMERICAN STANDARD "MADERA" MODEL 2234.001 "BARRIER FREE" WHITE VITREOUS CHINA, FLOOR MOUNTED ELONGATED SPHONJET TOILET WITH 1-1/2" TOP SPUD, 1.6 GPF, 10" OR 12" ROUGH-IN, 16.5" RIM HEIGHT. FLUSH VALVE: SLOAN WES 111, MANUAL DUAL FLUSH, 1-1/2" TOP SPUD, 1.6 GPF. SEAT: SEAT: CHURCH MODEL NO. 35555C EXTRA HEAVY WEIGHT SOLID PLASTIC ELONGATED OPEN FRONT SEAT WITH DURAGUARD ANTIMICROBIAL AGENT, SELF SUSTAINING CHECK HINGE.</td> <td>1"</td> <td>-</td> <td>4"</td> <td>2"</td> </tr> </table> <div> REMARKS: 1. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL REQUIREMENTS, ROUGH IN DIMENSIONS, AND COORDINATION OF ACCESSORIES. FIXTURE MOUNTING LOCATIONS AND OPERATION OF FIXTURE SHALL NOT INTERFERE WITH ADJACENT ACCESSORIES OR THEIR OPERATION. 2. CONTRACTOR SHALL COORDINATE ALL FIXTURES WITH OTHER TRADES. ANY CONFLICTS OR ADJUSTMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. 3. COORDINATE SINK BASINS AND DRAIN OUTLETS WITH CASEWORK AND KNEE GUARDS. PROVIDE OFFSET TAILPIECES AS REQUIRED TO ACCOMMODATE INSTALLATION AND COMPLY WITH ADA REQUIREMENTS. 4. COORDINATE FLUSH VALVE INSTALLATION WITH GRAB BARS IN ALL LOCATIONS. 5. COORDINATE MOUNTING OF FAUCET SPOUTS WITH BASINS. FAUCET SHALL NOT DISCHARGE DIRECTLY INTO BASIN DRAIN AND SHALL PROVIDE SUFFICIENT CLEARANCE BETWEEN STREAM AND BASIN TO ALLOW FOR UNOBSERVED HAND WASHING WITHOUT CONTACT WITH THE BASIN. 6. CONTRACTOR SHALL OBTAIN AND COORDINATE WITH SHOP DRAWINGS FROM COUNTER AND CASEWORK MANUFACTURERS. 7. COORDINATE DRAIN GRATE WITH FLOOR SLOPING AND FLOORING PATTERN FOR ALL FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS. DRAIN SHALL BE SET SUCH THAT DRAIN GRATE IS FLUSH WITH FINISHED FLOOR SURFACE AND COORDINATED WITH PATTERN. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR ADDITIONAL INFORMATION. 8. AT PUBLIC LAVATORIES SHALL REQUIRE AN ASSE 1070 TEMPERATURE LIMITING DEVICE.</div></div>	PLUMBING FIXTURE SCHEDULE															MARK	TYPE	DESCRIPTION	PIPING CONNECTIONS				COLD WATER	HOT WATER	WASTE	VENT					CS-1	CLINICAL SINK	AMERICAN STANDARD WALL HUNG CLINIC SERVICE SINK, MODEL 951269.020, WHITE VITREOUS CHINA WALL FLUSHING RIM, BLOW OUT OPERATION WITH 1-1/2" TOP SPUD, 28-30" RIM HEIGHT, FLUSH VALVE: SLOAN WES 111, MANUAL DUAL FLUSH, 1-1/2" TOP SPUD, 1.6 GPF. BED PAN WASHER: CHICAGO MODEL 910-0777-19C0P, BED PAN CLEANER WITH REMOTE PEDAL VALVE AND LOOSE KEY, WALL MOUNTED, CHROME PLATED, FULL FLOW, 25 DEGREE, MALE ROSE SPRAY, 3/4" WHITE VINYL HOSE WITH INSULATED HANDLE, INCLUDES ELEVATED VACUUM BREAKER ASSEMBLY. NOTE: PROVIDE 783204.075 FRONT STAINLESS STEEL RIM GUARD. PROVIDE WALL MOUNTED CARRIER.	1 1/4"	1/2"	4"	2"	EW-1	ELECTRIC WATER COOLER	ELKAY MODEL LPR828, SWIRL FLO BLEVEL ADA FOUNTAIN FILTERED REFRIGERATED STAINLESS STEEL, WALL MOUNTED, 8.0 GPM, POWER: 115V/60HZ, FLA 4.5, WATTS 370. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE 8902 1-1/4" x 1-1/2" CAST P-TRAP AND WALL BEND. NOTE: PROVIDE WALL MOUNTED CARRIER. WOODFORD MODEL 24, ANTI-SIPHON, VACUUM BREAKER PROTECTED WALL FAUCET, LOOSE TEE KEY TYPE, CHROME FINISH.	1/2"	-	2"	1 1/2"	HB-1	INTERIOR HOSE BIBB	GUY GREY MODEL MDWB18A, COMMERCIAL ICE MAKER BOX, WHITE POWDER COATED STEEL BOX WITH 3/8" COLD WATER OUTLET, 1/4 TURN SHUT OFF AND SHOCK ARRESTOR.	1/2"	-	-	-	IMB-1	ICE MAKER BOX	GUY GREY MODEL MDWB18A, COMMERCIAL ICE MAKER BOX, WHITE POWDER COATED STEEL BOX WITH 3/8" COLD WATER OUTLET, 1/4 TURN SHUT OFF AND SHOCK ARRESTOR. NOTE: PLUMBING CONTRACTOR SHALL VERIFY BOX HEIGHT AND LOCATION FOR ICE MAKER.	1/2"	-	-	-	L-1	WALL HUNG LAVATORY (ADA)	AMERICAN STANDARD "LUCERNE" MODEL 0356.015 21"x18" WHITE VITREOUS CHINA, WALL MTD LAVATORY WITH FRONT OVERFLOW AND 8" CENTERS FOR FAUCET. FAUCET: CHICAGO FAUCETS 786-GN2FC319XKABCP, WITH 5-1/4" RIGID/SWING GOOSENECK SPOUT, QUARTER-TURN CERAMIC DISC CARTRIDGE, 1.5 GPM VANDAL RESISTANT LAMINAR-FLO CONTROL INSERT IN SPOUT INLET AND 6" ELBOW BLADE HANDLES. DRAIN: MCQUIRE 1550C OFFSET LAVATORY GRID STRAINER. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE 8902 1-1/4" x 1-1/2" CAST P-TRAP AND WALL BEND. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS. PROVIDE CONCEALED ARM WALL MOUNTED CARRIER. PROVIDE THERMOSTAC MIXING VALVE (ASSE 1070) AT PUBLIC RESTROOMS.	1/2"	1/2"	2"	2"	L-2	WALL HUNG LAVATORY WITH EMERGENCY EYEWASH (ADA)	AMERICAN STANDARD "LUCERNE" MODEL 0356.015 21"x18" WHITE VITREOUS CHINA, WALL MTD LAVATORY WITH FRONT OVERFLOW AND 8" CENTERS FOR FAUCET. FAUCET: FAUCET: SPEAKMAN SEF-1800-CA-8A-TW, FAUCET WITH EYEWASH, DECK MOUNTED GOOSENECK BODY, VANDER RESISTANT 4" WRIST BLADE HANDLES, 2.8 GPM AT 30 PSI, INVERTED DIRECTIONAL LAMINAR FLOW. MIXING VALVE: SPEAKMAN MODEL SE-370 THERMOSTAC MIXING VALVE. PROVIDE MOUNTING BRACKET. DRAIN: MCQUIRE 1550C OFFSET LAVATORY GRID STRAINER. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE 8902 1-1/4" x 1-1/2" CAST P-TRAP AND WALL BEND. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS. PROVIDE CONCEALED ARM WALL MOUNTED CARRIER.	1/2"	1/2"	2	2"	L-3	INTEGRAL BOWL LAVATORY (ADA)	INTEGRAL BOWL LAVATORY BY OTHERS. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET: CHICAGO FAUCETS 420-E2805ABCP, DECK MOUNTED MANUAL SINK, SINGLE LEVER FAUCET WITH 4" CENTERS, 0.5 GPM VANDAL RESISTANT LAMINAR SPRAY. DRAIN: MCQUIRE 1550C OFFSET LAVATORY GRID STRAINER. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE 8902 1-1/4" x 1-1/2" CAST P-TRAP AND WALL BEND. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS. PROVIDE THERMOSTAC MIXING VALVE (ASSE 1070) AT PUBLIC RESTROOMS.	1/2"	1/2"	2"	2"	MS-1	MOP SINK	FIAT MODEL SB3624-832AA-MSG, 36"x24"x6" TERRAZZO MOP SERVICE BASIN, 8" DEPTH, HOSE & HOSE BRACKET, STAINLESS STEEL WALL GUARDS. FAUCET: CHICAGO MODEL 540-LD897SWXF317CP, 8" WIDESPREAD WALL-MOUNTED MOP SINK FAUCET, 5-3/4" RIGID VACUUM BREAKER SPOUT AND PAL HOOK, QUANTUM COMPRESSION CARTRIDGES, 4" WRIST BLADE HANDLES. P-TRAP: 3". NOTE: PROVIDE HOSE AND HOSE BRACKET ASSEMBLIES AND WALL GUARDS. PROVIDE CHECK VALVES ON HOT AND COLD WATER PIPING SERVING MOP SINK.	3/4"	3/4"	3"	2"	MV-1	MIXING VALVE	LAWLOR MODEL 850B, 801 RECIRCULATION SYSTEM WITH ARV, MASTER WATER MIXING VALVE, THERMOSTATIC TYPE WITH LIQUID-FILLED THERMAL MOTOR, VALVE SHALL BE EQUIPPED WITH UNION AND END STOP AND CHECK INLETS WITH REMOVABLE STAINLESS STEEL STRAINERS. SYSTEM SHALL INCLUDE RETURN PIPING FOR RECIRCULATION CONNECTION AND AN AUTOMATIC RETURN VALVE (ARV) FOR THERMOSTATIC BALANCING OF THE SYSTEM. PROVIDE OPTIONAL HOSE CONNECTION FOR TESTING. NOTE: MIXING VALVE IS ASSE 1017 APPROVED.	1"	1"	-	-	RH-1	ROOF HYDRANT	WOODFORD MODEL SRH4MS, EXTERIOR FREEZELESS ROOF HYDRANT.	3/4"	-	-	-	S-1	INTEGRAL BOWL SINK	WOODFORD MODEL SRH4MS, EXTERIOR FREEZELESS ROOF HYDRANT. FAUCET: CHICAGO FAUCETS 786-GN2FC319XKABCP, WITH 5-1/4" RIGID/SWING GOOSENECK SPOUT, QUARTER-TURN CERAMIC DISC CARTRIDGE, 1.5 GPM VANDAL RESISTANT LAMINAR-FLO CONTROL INSERT IN SPOUT INLET AND 6" ELBOW BLADE HANDLES. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. DRAIN: MCQUIRE 151A STAINLESS STEEL BASKET STRAINER. P-TRAP: MCQUIRE NO. 8912 (1-1/2"x1-1/2") 17 GA. HEAVY CAST P-TRAP WITH CLEANOUT PLUG. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS.	1/2"	1/2"	2"	1 1/2"	S-2	SINK (ADA)	ELKAY MODEL LRAD191865, 19"x18"x6.5", 18 GA. TYPE 304 STAINLESS STEEL, COUNTER MOUNTED SINK WITH PRET HOLE DRILLING, 8" CENTERS, REAR CENTER DRAIN OUTLET. FAUCET: CHICAGO FAUCETS 786-GN2FC319XKABCP, WITH 5-1/4" RIGID/SWING GOOSENECK SPOUT, QUARTER-TURN CERAMIC DISC CARTRIDGE, 1.5 GPM VANDAL RESISTANT LAMINAR-FLO CONTROL INSERT IN SPOUT INLET AND 6" ELBOW BLADE HANDLES. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. DRAIN: MCQUIRE 151A STAINLESS STEEL BASKET STRAINER. P-TRAP: MCQUIRE NO. 8912 (1-1/2"x1-1/2") 17 GA. HEAVY CAST P-TRAP WITH CLEANOUT PLUG. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS.	1/2"	1/2"	2"	1 1/2"	S-3	THREE COMPARTMENT SINK	PROVIDED BY OWNER. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET: PROVIDED BY OWNER. ANGLE STOP: 1/2" WHEEL HANDLE SUPPLY STOPS. DRAIN: MCQUIRE 151A STAINLESS STEEL BASKET STRAINER. P-TRAP: 2" COPPER. DRAIN PIPING SHALL BE TYPE 1 COPPER. NOTE: EACH SINK BASIN SHALL DRAIN INDEPENDENTLY.	1/2"	1/2"	2"	2"	SH-1	TRANSFER TYPE SHOWER (ADA)	COMFORT DESIGNS MODEL SSS3828BF 625, OUTSIDE DIMENSIONS 42"x37" 1/2" MAX. SOLID SURFACE, CENTER DRAIN, FOLD UP SEAT. DRAIN - PROVIDE WITH SHOWER. SHOWER VALVE: POWERS HYDROGUARD ET07-G-1-N, 1 & P MIXING VALVE, INTEGRAL SERVICE STOPS, INTEGRAL CHECK STOPS, STAINLESS STEEL HAND HELD SHOWER, 1.5 GPM, 60" METAL HOSE, IN-LINE VACUUM BREAKER. 3/8" SLIDE BAR, ASSE 1016 APPROVED, CHROME PLATED. NOTE: VERIFY SHOWER AS RIGHT OR LEFT. PROVIDE FRONT LEGS FOR FOLD UP SEAT.	1/2"	1/2"	2"	1 1/2"	SS-1	SCRUB SINK	PROVIDED BY OWNER. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET: PROVIDED BY OWNER. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE NO. 8912 (1-1/2"x1-1/2") 17 GA. HEAVY CAST P-TRAP WITH CLEANOUT PLUG. NOTE: WALL CARRIER PROVIDED BY OWNER. PLUMBING CONTRACTOR TO INSTALL.	3/4"	3/4"	2"	2"	WB-1	WALL BOX	GUY GREY MODEL MWB-19, WHITE POWDER COATED STEEL BOX WITH 2" CENTER DRAIN, WALL BOX TO HAVE 1-1/2" COLD WATER THREADED HOSE CONNECTION WITH 1/4" TURN SHUT OFF AND SHOCK ARRESTOR. NOTE: PLUMBING CONTRACTOR SHALL VERIFY DRAIN BOX HEIGHT AND WITH ICE MACHINE AND COFFEE MAKER LOCATION.	1/2"	-	2"	1 1/2"	WC-1	WATER CLOSET (ADA)	AMERICAN STANDARD "MADERA" MODEL 2234.001 "BARRIER FREE" WHITE VITREOUS CHINA, FLOOR MOUNTED ELONGATED SPHONJET TOILET WITH 1-1/2" TOP SPUD, 1.6 GPF, 10" OR 12" ROUGH-IN, 16.5" RIM HEIGHT. FLUSH VALVE: SLOAN WES 111, MANUAL DUAL FLUSH, 1-1/2" TOP SPUD, 1.6 GPF. SEAT: SEAT: CHURCH MODEL NO. 35555C EXTRA HEAVY WEIGHT SOLID PLASTIC ELONGATED OPEN FRONT SEAT WITH DURAGUARD ANTIMICROBIAL AGENT, SELF SUSTAINING CHECK HINGE.	1"	-	4"	2"
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MARK	LOCATION		O	V	A	CO2	N	N2O	WAGD	IA	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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ZV-1	STRETCHER / SCRUB ALOOVE	133	1/2	1	1/2				3/4		(1/12)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ZV-1	STRETCHER / SCRUB ALOOVE	129	1/2	1	1/2				3/4		(1/12)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ZV-1	STRETCHER / SCRUB ALOOVE	130	1/2	1	1/2				3/4		(1/12)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ZV-1	STRETCHER / SCRUB ALOOVE	134	1/2	1	1/2				3/4		(1/12)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ZV-2	CORRIDOR	182	3/4	1							(1/12)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ZV-3	CORRIDOR	154	3/4	1 1/4							(1/12)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ZV-4	CORRIDOR	136								1/2	(1/12)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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MARK	SERVICE	TYPE	DELIVERY PRESSURE	TOTAL NUMBER OF BOTTLES	NUMBER OF BANKS	DISTRIBUTION SYSTEM PIPE CONNECTION SIZE	MANUFACTURER	MODEL	ELECTRICAL DATA			REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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MA-1	MEDICAL AIR	HIGH PRESSURE	55	6	2	3/4"	BEACON MEDAES	MNE-303-ARR-A-7	120 V	1	ELECTRICAL	(1/12)(3)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
O2-1	OXYGEN	HIGH PRESSURE	55	12	4	2"	BEACON MEDAES	MNE-6X6-O2-A-7	120 V	1	ELECTRICAL	(1/12)(3)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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MARK	FLOW [GPM]	TOTAL HEAD [FT]	TYPE OF FLUID	SUCTION / DISCHARGE SIZE [IN]	ELECTRICAL DATA					MANUFACTURER	MODEL	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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RCP-1	3.0	20	H2O	3/4"	0.265	1.8	115 V	1	ELECTRICAL CONTRACTOR	5	GRUNDFOS	UPS 26-90 FC (1/12)(4)(3)(5)(6)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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MARK	SERVICE	SIZE [IN]	REGULATING OR REDUCING VALVE		MANUFACTURER	MODEL	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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PRV-1	DOMESTIC COLD WATER	2-1/2	80	70	WATTS	LF223-S-8	(1/12)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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MARK	TYPE	DESCRIPTION	PIPING CONNECTIONS				COLD WATER	HOT WATER	WASTE	VENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
CS-1	CLINICAL SINK	AMERICAN STANDARD WALL HUNG CLINIC SERVICE SINK, MODEL 951269.020, WHITE VITREOUS CHINA WALL FLUSHING RIM, BLOW OUT OPERATION WITH 1-1/2" TOP SPUD, 28-30" RIM HEIGHT, FLUSH VALVE: SLOAN WES 111, MANUAL DUAL FLUSH, 1-1/2" TOP SPUD, 1.6 GPF. BED PAN WASHER: CHICAGO MODEL 910-0777-19C0P, BED PAN CLEANER WITH REMOTE PEDAL VALVE AND LOOSE KEY, WALL MOUNTED, CHROME PLATED, FULL FLOW, 25 DEGREE, MALE ROSE SPRAY, 3/4" WHITE VINYL HOSE WITH INSULATED HANDLE, INCLUDES ELEVATED VACUUM BREAKER ASSEMBLY. NOTE: PROVIDE 783204.075 FRONT STAINLESS STEEL RIM GUARD. PROVIDE WALL MOUNTED CARRIER.	1 1/4"	1/2"	4"	2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
EW-1	ELECTRIC WATER COOLER	ELKAY MODEL LPR828, SWIRL FLO BLEVEL ADA FOUNTAIN FILTERED REFRIGERATED STAINLESS STEEL, WALL MOUNTED, 8.0 GPM, POWER: 115V/60HZ, FLA 4.5, WATTS 370. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE 8902 1-1/4" x 1-1/2" CAST P-TRAP AND WALL BEND. NOTE: PROVIDE WALL MOUNTED CARRIER. WOODFORD MODEL 24, ANTI-SIPHON, VACUUM BREAKER PROTECTED WALL FAUCET, LOOSE TEE KEY TYPE, CHROME FINISH.	1/2"	-	2"	1 1/2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
HB-1	INTERIOR HOSE BIBB	GUY GREY MODEL MDWB18A, COMMERCIAL ICE MAKER BOX, WHITE POWDER COATED STEEL BOX WITH 3/8" COLD WATER OUTLET, 1/4 TURN SHUT OFF AND SHOCK ARRESTOR.	1/2"	-	-	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
IMB-1	ICE MAKER BOX	GUY GREY MODEL MDWB18A, COMMERCIAL ICE MAKER BOX, WHITE POWDER COATED STEEL BOX WITH 3/8" COLD WATER OUTLET, 1/4 TURN SHUT OFF AND SHOCK ARRESTOR. NOTE: PLUMBING CONTRACTOR SHALL VERIFY BOX HEIGHT AND LOCATION FOR ICE MAKER.	1/2"	-	-	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
L-1	WALL HUNG LAVATORY (ADA)	AMERICAN STANDARD "LUCERNE" MODEL 0356.015 21"x18" WHITE VITREOUS CHINA, WALL MTD LAVATORY WITH FRONT OVERFLOW AND 8" CENTERS FOR FAUCET. FAUCET: CHICAGO FAUCETS 786-GN2FC319XKABCP, WITH 5-1/4" RIGID/SWING GOOSENECK SPOUT, QUARTER-TURN CERAMIC DISC CARTRIDGE, 1.5 GPM VANDAL RESISTANT LAMINAR-FLO CONTROL INSERT IN SPOUT INLET AND 6" ELBOW BLADE HANDLES. DRAIN: MCQUIRE 1550C OFFSET LAVATORY GRID STRAINER. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE 8902 1-1/4" x 1-1/2" CAST P-TRAP AND WALL BEND. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS. PROVIDE CONCEALED ARM WALL MOUNTED CARRIER. PROVIDE THERMOSTAC MIXING VALVE (ASSE 1070) AT PUBLIC RESTROOMS.	1/2"	1/2"	2"	2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
L-2	WALL HUNG LAVATORY WITH EMERGENCY EYEWASH (ADA)	AMERICAN STANDARD "LUCERNE" MODEL 0356.015 21"x18" WHITE VITREOUS CHINA, WALL MTD LAVATORY WITH FRONT OVERFLOW AND 8" CENTERS FOR FAUCET. FAUCET: FAUCET: SPEAKMAN SEF-1800-CA-8A-TW, FAUCET WITH EYEWASH, DECK MOUNTED GOOSENECK BODY, VANDER RESISTANT 4" WRIST BLADE HANDLES, 2.8 GPM AT 30 PSI, INVERTED DIRECTIONAL LAMINAR FLOW. MIXING VALVE: SPEAKMAN MODEL SE-370 THERMOSTAC MIXING VALVE. PROVIDE MOUNTING BRACKET. DRAIN: MCQUIRE 1550C OFFSET LAVATORY GRID STRAINER. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE 8902 1-1/4" x 1-1/2" CAST P-TRAP AND WALL BEND. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS. PROVIDE CONCEALED ARM WALL MOUNTED CARRIER.	1/2"	1/2"	2	2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
L-3	INTEGRAL BOWL LAVATORY (ADA)	INTEGRAL BOWL LAVATORY BY OTHERS. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET: CHICAGO FAUCETS 420-E2805ABCP, DECK MOUNTED MANUAL SINK, SINGLE LEVER FAUCET WITH 4" CENTERS, 0.5 GPM VANDAL RESISTANT LAMINAR SPRAY. DRAIN: MCQUIRE 1550C OFFSET LAVATORY GRID STRAINER. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE 8902 1-1/4" x 1-1/2" CAST P-TRAP AND WALL BEND. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS. PROVIDE THERMOSTAC MIXING VALVE (ASSE 1070) AT PUBLIC RESTROOMS.	1/2"	1/2"	2"	2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
MS-1	MOP SINK	FIAT MODEL SB3624-832AA-MSG, 36"x24"x6" TERRAZZO MOP SERVICE BASIN, 8" DEPTH, HOSE & HOSE BRACKET, STAINLESS STEEL WALL GUARDS. FAUCET: CHICAGO MODEL 540-LD897SWXF317CP, 8" WIDESPREAD WALL-MOUNTED MOP SINK FAUCET, 5-3/4" RIGID VACUUM BREAKER SPOUT AND PAL HOOK, QUANTUM COMPRESSION CARTRIDGES, 4" WRIST BLADE HANDLES. P-TRAP: 3". NOTE: PROVIDE HOSE AND HOSE BRACKET ASSEMBLIES AND WALL GUARDS. PROVIDE CHECK VALVES ON HOT AND COLD WATER PIPING SERVING MOP SINK.	3/4"	3/4"	3"	2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
MV-1	MIXING VALVE	LAWLOR MODEL 850B, 801 RECIRCULATION SYSTEM WITH ARV, MASTER WATER MIXING VALVE, THERMOSTATIC TYPE WITH LIQUID-FILLED THERMAL MOTOR, VALVE SHALL BE EQUIPPED WITH UNION AND END STOP AND CHECK INLETS WITH REMOVABLE STAINLESS STEEL STRAINERS. SYSTEM SHALL INCLUDE RETURN PIPING FOR RECIRCULATION CONNECTION AND AN AUTOMATIC RETURN VALVE (ARV) FOR THERMOSTATIC BALANCING OF THE SYSTEM. PROVIDE OPTIONAL HOSE CONNECTION FOR TESTING. NOTE: MIXING VALVE IS ASSE 1017 APPROVED.	1"	1"	-	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
RH-1	ROOF HYDRANT	WOODFORD MODEL SRH4MS, EXTERIOR FREEZELESS ROOF HYDRANT.	3/4"	-	-	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
S-1	INTEGRAL BOWL SINK	WOODFORD MODEL SRH4MS, EXTERIOR FREEZELESS ROOF HYDRANT. FAUCET: CHICAGO FAUCETS 786-GN2FC319XKABCP, WITH 5-1/4" RIGID/SWING GOOSENECK SPOUT, QUARTER-TURN CERAMIC DISC CARTRIDGE, 1.5 GPM VANDAL RESISTANT LAMINAR-FLO CONTROL INSERT IN SPOUT INLET AND 6" ELBOW BLADE HANDLES. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. DRAIN: MCQUIRE 151A STAINLESS STEEL BASKET STRAINER. P-TRAP: MCQUIRE NO. 8912 (1-1/2"x1-1/2") 17 GA. HEAVY CAST P-TRAP WITH CLEANOUT PLUG. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS.	1/2"	1/2"	2"	1 1/2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
S-2	SINK (ADA)	ELKAY MODEL LRAD191865, 19"x18"x6.5", 18 GA. TYPE 304 STAINLESS STEEL, COUNTER MOUNTED SINK WITH PRET HOLE DRILLING, 8" CENTERS, REAR CENTER DRAIN OUTLET. FAUCET: CHICAGO FAUCETS 786-GN2FC319XKABCP, WITH 5-1/4" RIGID/SWING GOOSENECK SPOUT, QUARTER-TURN CERAMIC DISC CARTRIDGE, 1.5 GPM VANDAL RESISTANT LAMINAR-FLO CONTROL INSERT IN SPOUT INLET AND 6" ELBOW BLADE HANDLES. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. DRAIN: MCQUIRE 151A STAINLESS STEEL BASKET STRAINER. P-TRAP: MCQUIRE NO. 8912 (1-1/2"x1-1/2") 17 GA. HEAVY CAST P-TRAP WITH CLEANOUT PLUG. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPLY AND TRAP COVERS.	1/2"	1/2"	2"	1 1/2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
S-3	THREE COMPARTMENT SINK	PROVIDED BY OWNER. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET: PROVIDED BY OWNER. ANGLE STOP: 1/2" WHEEL HANDLE SUPPLY STOPS. DRAIN: MCQUIRE 151A STAINLESS STEEL BASKET STRAINER. P-TRAP: 2" COPPER. DRAIN PIPING SHALL BE TYPE 1 COPPER. NOTE: EACH SINK BASIN SHALL DRAIN INDEPENDENTLY.	1/2"	1/2"	2"	2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
SH-1	TRANSFER TYPE SHOWER (ADA)	COMFORT DESIGNS MODEL SSS3828BF 625, OUTSIDE DIMENSIONS 42"x37" 1/2" MAX. SOLID SURFACE, CENTER DRAIN, FOLD UP SEAT. DRAIN - PROVIDE WITH SHOWER. SHOWER VALVE: POWERS HYDROGUARD ET07-G-1-N, 1 & P MIXING VALVE, INTEGRAL SERVICE STOPS, INTEGRAL CHECK STOPS, STAINLESS STEEL HAND HELD SHOWER, 1.5 GPM, 60" METAL HOSE, IN-LINE VACUUM BREAKER. 3/8" SLIDE BAR, ASSE 1016 APPROVED, CHROME PLATED. NOTE: VERIFY SHOWER AS RIGHT OR LEFT. PROVIDE FRONT LEGS FOR FOLD UP SEAT.	1/2"	1/2"	2"	1 1/2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
SS-1	SCRUB SINK	PROVIDED BY OWNER. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET: PROVIDED BY OWNER. ANGLE STOP: MCQUIRE LPHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCQUIRE NO. 8912 (1-1/2"x1-1/2") 17 GA. HEAVY CAST P-TRAP WITH CLEANOUT PLUG. NOTE: WALL CARRIER PROVIDED BY OWNER. PLUMBING CONTRACTOR TO INSTALL.	3/4"	3/4"	2"	2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
WB-1	WALL BOX	GUY GREY MODEL MWB-19, WHITE POWDER COATED STEEL BOX WITH 2" CENTER DRAIN, WALL BOX TO HAVE 1-1/2" COLD WATER THREADED HOSE CONNECTION WITH 1/4" TURN SHUT OFF AND SHOCK ARRESTOR. NOTE: PLUMBING CONTRACTOR SHALL VERIFY DRAIN BOX HEIGHT AND WITH ICE MACHINE AND COFFEE MAKER LOCATION.	1/2"	-	2"	1 1/2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
WC-1	WATER CLOSET (ADA)	AMERICAN STANDARD "MADERA" MODEL 2234.001 "BARRIER FREE" WHITE VITREOUS CHINA, FLOOR MOUNTED ELONGATED SPHONJET TOILET WITH 1-1/2" TOP SPUD, 1.6 GPF, 10" OR 12" ROUGH-IN, 16.5" RIM HEIGHT. FLUSH VALVE: SLOAN WES 111, MANUAL DUAL FLUSH, 1-1/2" TOP SPUD, 1.6 GPF. SEAT: SEAT: CHURCH MODEL NO. 35555C EXTRA HEAVY WEIGHT SOLID PLASTIC ELONGATED OPEN FRONT SEAT WITH DURAGUARD ANTIMICROBIAL AGENT, SELF SUSTAINING CHECK HINGE.	1"	-	4"	2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

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PLUMBING PIPING INSULATION SCHEDULE										
PIPING SYSTEM FLUID	TEMP. RANGE DEG. F.	THICKNESS IN INCHES FOR PIPE SIZES THROUGH SIZE LISTED					TYPE	JACKET TYPE (2)	NCIS PLATE NUMBER (1)	REMARKS
		<1	1 - 1.25	1.5 - 3	4 - 6	>= 8				
INDOOR HOT WATER AND HOT WATER REGR	105 - 140	1	1	1.5	1.5	1.5	MF	ASJ-SSL	1-100	
INDOOR COLD WATER	40 - 80	0.5	0.5	1	1	1	MF, E	ASJ-SSL	1-100, 1-200	
STORM, STORM OVERFLOW AND DRAIN BODIES	ANY	1	1	1	1	1	MF, E	ASJ-SSL	1-100, 1-200	
INDOOR CONDENSATE AND EQUIPMENT DRAINS	BELOW 60	0.5	0.5	0.5	0.5	0.5	MF, E	ASJ-SSL	1-100, 1-200	(5)

ABBREVIATIONS: MF = MINERAL FIBER/FIBERGLASS, E = ELASTOMERIC, CG = CELLULAR GLASS

REMARKS:

1. NCIS NATIONAL COMMERCIAL AND INDUSTRIAL INSULATION STANDARD PLATE NUMBER REFERENCED ARE PROVIDED TO CLARIFY THE SCOPE OF INSTALLATION. INSTALL INSULATION AND ACCESSORY COMPONENTS PER APPLICABLE NCIS AND MANUFACTURERS RECOMMENDATIONS
2. "JACKET TYPE" IS FOR INSULATION ONLY. REFER TO SPECIFICATIONS FOR INSTALLATIONS REQUIRING ADDITIONAL FIELD APPLIED JACKETING SUCH AS METAL OR PVC.
3. HEAT TRACED PIPING SHALL BE INSULATED TO THICKNESS INDICATED OR TO THICKNESS SPECIFIED FOR SPECIFIC SYSTEM, WHICHEVER IS GREATER.
4. UNDERGROUND REFRIGERANT PIPING SHALL BE INSULATED AS SPECIFIED FOR ABOVEGROUND PIPING AND INSTALLED IN PVC CONDUIT.
5. INCLUDES AIR CONDITIONING CONDENSATE, P-TRAPS FOR FLOOR DRAINS/SINKS RECEIVING AIR CONDITIONING CONDENSATE OR ICE MAKER DRAIN PIPING, AND SANITARY DRAINAGE PIPING FROM ELECTRIC WATER COOLERS TO MAIN.
6. INSULATION PRODUCT TO BE PLENUM RATED AND FULLY COMPLIANT PER APPLICABLE MECHANICAL AND PLUMBING CODES AS A UL LISTED AND LABELED PIPE INSULATION, UL CATEGORY INSULATED PLASTIC PIPE ASSEMBLIES (ISMP) FOR INSTALLATION OVER POLYMER PIPES (I.E. PVC, POLYETHYLENE AND POLYPROPYLENE).

WATER SOFTENER SCHEDULE												
MARK	MAX OPERATING WEIGHT [LBS]	MAX SIZE SOFTENER TANK (HXØ) [IN]	MAX SIZE BRINE TANK (HXØ) [IN]	PEAK FLOW RATE [GPM]	PEAK FLOW P.D. [PSI]	CONTINUOUS FLOW RATE [GPM]	CONTINUOUS FLOW P.D. [PSI]	ELECTRICAL DATA		MANUFACTURER	MODEL	REMARKS
								VOLTAGE	DISCONNECT BY			
WS-1	2075	21"x67"	24"x50"	85	25	65	15	120 V	ELECTRICAL CONTRACTOR	CULLIGAN	CTM-120 HWB NHHW MT	(1)(2)

REMARKS:

1. EXCHANGE CAPACITY AND FLOW RATE IS PER TANK.
2. SYSTEM SHALL BE PROGRESSIVE FLOW. PROVIDE WITH REQUIRED CONTROLS AND FLOW SENSORS FOR PROPER CYCLING OF TANKS.

INSTRUMENT AIR COMPRESSOR SCHEDULE																					
MARK	SERVICE	DELIVERY PRESSURE	SCFM AT DELIVERY PRESSURE EACH COMP	CONFIGURATION	DIMENSIONS			INTAKE CONNECTION SIZE	DISTRIBUTION SYSTEM PIPE CONNECTION SIZE	TANK VOLUME [GAL]	SOUND DATA [dBA]	HEAT DISSIPATION [BTU/H]	ELECTRICAL DATA					MANUFACTURER	MODEL	REMARKS	
					L	W	H						HP	FLA	VOLTAGE	PHASE	DISCONNECT BY				SCCR
IAC-1	INSTRUMENT AIR	200	15.5	DUPLEX	66"	65"	79"	2"	3/4"	120	76	12,725	5	15.2	460 V	3	ELECTRICAL	5	POWEREX	IPD0504	(1)(2)(3)(4)(5)(6)(7)(8)

REMARKS:

1. CONTRACTOR SHALL PROVIDE ANY AND ALL NECESSARY INTERCONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. INTERCONNECTIONS MAY INCLUDE BUT ARE NOT LIMITED TO POWER WIRING, COMMUNICATIONS WIRING, PIPING, DRAINS, SUPPORTS, ETC.
2. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLIANT SYSTEM. APPURTENANCES INCLUDE BUT ARE NOT LIMITED TO AFTERCOOLERS, RECEIVERS, DRYERS, FILTERS, REGULATORS, CONTROLS, ALARMS, VALVES, FLEXIBLE CONNECTIONS, MUFFLERS, RELIEF VALVES, DRAIN VALVES, GAUGES, ETC. REFER TO PLANS, DETAILS, AND SPECIFICATIONS FOR FURTHER INFORMATION.
3. CONTRACTOR SHALL PROVIDE VIBRATION ISOLATION PADS ISOLATING EQUIPMENT FROM STRUCTURE.
4. CONTRACTOR SHALL PROVIDE AND INSTALL EQUIPMENT ON A HOUSEKEEPING PAD.
5. EQUIPMENT SHALL BE FURNISHED WITH A CONTROL PANEL CAPABLE OF INTERFACING WITH THE BUILDING AUTOMATION SYSTEM. DDC CONTRACTOR SHALL PROVIDE INTEGRATION OF EQUIPMENT WITH DDC SYSTEM. REFER TO CONTROLS SCHEMATIC FOR FURTHER INTEGRATION REQUIREMENTS.
6. MAINTAIN MANUFACTURER RECOMMENDED AND/OR REQUIRED CLEARANCES.
7. PROVIDE HIGH PRESSURE TO LOW PRESSURE REGULATORS FOR REQUIRED PRESSURE AT AIR LINES AND EQUIPMENT IN SPD.
8. "SCCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION. EQUIPMENT INDICATED WITH 5 KA MAY BE PROVIDED WITH 5 KA SCCR. REVIEW SCCR WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

MEDICAL VACUUM PUMP SCHEDULE																
MARK	SERVICE	SCFM AT DELIVERY PRESSURE EACH COMP	CONFIGURATION	DIMENSIONS			INTAKE CONNECTION SIZE	DISTRIBUTION SYSTEM PIPE CONNECTION SIZE	TANK VOLUME [GAL]	SOUND DATA [dBA]	HEAT DISSIPATION [BTU/H]	ELECTRICAL DATA				
				L	W	H						HP	FLA	VOLTAGE	PHASE	DISCONNECT BY
MVP-1	MEDICAL VACUUM	37	DUPLEX	64"	35"	80"	2"	2"	60	71	10,180	5	13.7	460 V	3	ELECTRICAL


REMARKS:

1. CONTRACTOR SHALL PROVIDE ANY AND ALL NECESSARY INTERCONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. INTERCONNECTIONS MAY INCLUDE BUT ARE NOT LIMITED TO POWER WIRING, COMMUNICATIONS WIRING, PIPING, DRAINS, SUPPORTS, ETC.
2. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLIANT SYSTEM. APPURTENANCES INCLUDE BUT ARE NOT LIMITED TO RECEIVERS, REGULATORS, CONTROLS, ALARMS, VALVES, FLEXIBLE CONNECTIONS, DRAIN VALVES, GAUGES, ETC. REFER TO PLANS, DETAILS, AND SPECIFICATIONS FOR FURTHER INFORMATION.
3. CONTRACTOR SHALL PROVIDE VIBRATION ISOLATION PADS ISOLATING EQUIPMENT FROM STRUCTURE.
4. CONTRACTOR SHALL PROVIDE AND INSTALL EQUIPMENT ON A HOUSEKEEPING PAD.
5. EQUIPMENT SHALL BE FURNISHED WITH A CONTROL PANEL CAPABLE OF INTERFACING WITH THE BUILDING AUTOMATION SYSTEM. DDC CONTRACTOR SHALL PROVIDE INTEGRATION OF EQUIPMENT WITH DDC SYSTEM. REFER TO CONTROLS SCHEMATIC FOR FURTHER INTEGRATION REQUIREMENTS.
6. MAINTAIN MANUFACTURER RECOMMENDED AND/OR REQUIRED CLEARANCES.
7. "SCCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION. EQUIPMENT INDICATED WITH 5 KA MAY BE PROVIDED WITH 5 KA SCCR. REVIEW SCCR WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

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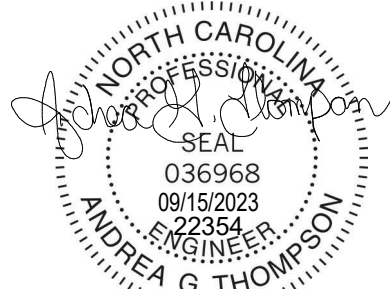
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A/E # 22354

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SHEET NAME
PLUMBING SCHEDULES

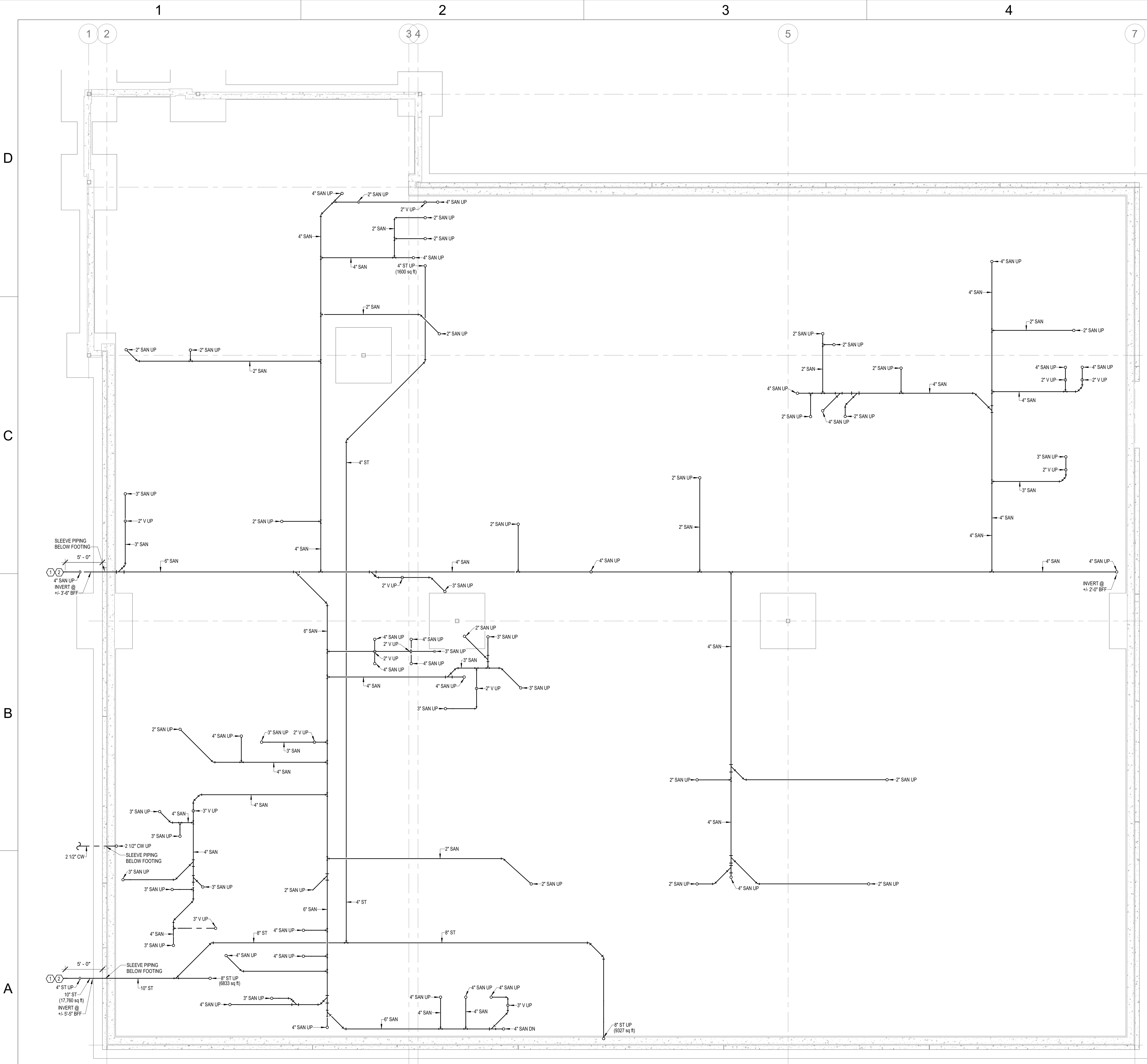
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CONSTRUCTION DOCUMENTS

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A) UNDERFLOOR PLAN - PLUMBING DRAINAGE
3/16" = 1'-0"

- GENERAL NOTES:**
- A. UNLESS NOTED OTHERWISE DETAILS SHOWN WITHIN THESE DOCUMENTS ARE APPLICABLE FOR ALL PIPING, EQUIPMENT, AND FIXTURE INSTALLATIONS WHETHER OR NOT SPECIFICALLY NOTED.
 - B. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR FOR THE MEANS AND METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THIS WORK.
 - C. THE PLUMBING CONTRACTOR SHALL COORDINATE SANITARY AND STORM PIPING INVERTS AND POINT OF CONNECTION WITH UTILITY CONTRACTOR.
 - D. THE PLUMBING CONTRACTOR SHALL VERIFY SANITARY AND STORM PIPING INVERTS PRIOR TO THE START OF WORK.
 - E. ALL SANITARY PIPING IS BELOW FLOOR UNLESS NOTED OTHERWISE. ALL WATER AND VENT PIPING IS ABOVE CEILING UNLESS NOTED OTHERWISE.
 - F. PLUMBING CONTRACTOR SHALL ROUGH-IN AND MAKE FINAL CONNECTIONS TO EQUIPMENT AS REQUIRED.
 - G. COVER SHEET GENERAL NOTES APPLY TO ALL SHEETS.
 - H. CONTRACTOR TO COORDINATE WITH CIVIL, CONTRACTOR/ ENGINEER AND STRUCTURAL ENGINEER/ FLATWORK CONTRACTOR FOR WALL, ROOFING AND SITE UTILITY LOCATIONS.
 - I. CONTRACTOR TO COORDINATE WITH THE LOCAL UTILITIES COMPANY WHEN LOCATING AND ROUTING UTILITIES TO CONFORM WITH THEIR REQUIREMENTS AND STANDARDS.
 - J. CONTRACTOR TO BACKFILL AND PROTECT ALL BURIED PIPING PER ENGINEERS AND CIVIL ENGINEER SPECIFICATIONS WITH THE MOST STRINGENT REQUIREMENTS GOVERNING.
 - K. PIPE SLEEVES BELOW FOOTINGS SHALL BE SCHEDULE 40 STEEL, TWICE THE DIAMETER OF THE PIPING IT IS SERVING.
- SHEET NOTES:**
- 1. SEE CIVIL PLANS FOR CONTINUATION.
 - 2. SANITARY AND STORM PIPE ROUTED OUT OF BUILDING IN THIS LOCATION. SIZE OF PIPE IS NOTED ON PLANS. INVERT ELEVATION TAKEN AT BOTTOM OF PIPE AND NOTED AT 5' BEYOND BUILDING FOOTPRINT.

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A/E #: 22354

Novant ASC Leland

SHEET NAME
UNDERFLOOR PLAN - PLUMBING DRAINAGE

SHEET NUMBER
PD200



- GENERAL NOTES:**
- A. COVER SHEET GENERAL NOTES APPLY TO ALL SHEETS.
 - B. UNLESS NOTED OTHERWISE DETAILS SHOWN WITHIN THESE DOCUMENTS ARE APPLICABLE FOR ALL PIPING, EQUIPMENT, AND FIXTURE INSTALLATIONS WHETHER OR NOT SPECIFICALLY NOTED.
 - C. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS, OR FOR THE MEANS AND METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THIS WORK.
 - D. PROVIDE TRAP PRIMERS TO SERVE NEW FLOOR DRAINS. PROVIDE ALL PIPING AND MATERIALS FOR A COMPLETE INSTALLATION.
 - E. ALL SANITARY PIPING IS BELOW FLOOR UNLESS NOTED OTHERWISE. ALL WATER AND VENT PIPING IS ABOVE CEILING UNLESS NOTED OTHERWISE.
 - F. PLUMBING CONTRACTOR SHALL ROUGH-IN AND COORDINATE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT.
 - G. REFER TO SHEET P600 "PLUMBING FIXTURE SCHEDULE" FOR PIPE SIZES TO PLUMBING FIXTURES.
- SHEET NOTES:**
- 1. PROVIDE OVERFLOW DRAIN 18" ABOVE GRADE.
 - 2. PROVIDE DRAIN PANS BELOW STORM SEWER PIPE ABOVE CEILING PER PLUMBING DETAIL.

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RATED WALLS & PARTITIONS

FIRE BARRIER		FIRE & SMOKE BARRIER	
1-HOUR	[Symbol]	1-HOUR	[Symbol]
2-HOUR	[Symbol]	2-HOUR	[Symbol]

SMOKE TIGHT PARTITION

SMOKE	[Symbol]
SUITE PERIMETER	[Symbol]

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SHEET NAME
**FIRST FLOOR PLAN -
PLUMBING DRAINAGE**

SHEET NUMBER
PD201

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CONSTRUCTION DOCUMENTS

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- GENERAL NOTES:**
- A. COVER SHEET GENERAL NOTES APPLY TO ALL SHEETS.
 - B. UNLESS NOTED OTHERWISE DETAILS SHOWN WITHIN THESE DOCUMENTS ARE APPLICABLE FOR ALL PIPING, EQUIPMENT, AND FIXTURE INSTALLATIONS WHETHER OR NOT SPECIFICALLY NOTED.
 - C. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR FOR THE MEANS AND METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THIS WORK.
 - D. ALL MEDICAL GAS WORK SHALL CONFORM TO NFPA 99.
 - E. PLUMBING CONTRACTOR SHALL ROUGH-IN AND COORDINATE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT.
 - F. REFER TO ARCHITECTS DOCUMENTS FOR EXACT HEIGHT AND LOCATION OF THE MEDICAL GAS OUTLETS AND SLIDES.
 - G. MEDICAL GAS CEILING MOUNTED COLUMNS PROVIDED BY OTHERS. PLUMBING CONTRACTOR SHALL ROUGH-IN AND CONNECT PIPING TO COLUMNS.
 - H. MEDICAL GAS HEADWALLS PROVIDED BY OTHERS. PLUMBING CONTRACTOR SHALL ROUGH-IN AND CONNECT PIPING TO HEADWALL OUTLETS.
- SHEET NOTES:**
- 1. TYPICAL PRE/POST AND PACU MEDICAL GAS OUTLET COUNT: 1 - OXYGEN, 1 - VACUUM, 1 - SLIDE
 - 2. TYPICAL MEDICAL GAS OUTLET COUNT AT MEDICAL GAS CEILING COLUMNS: 2 - OXYGEN, 3 - VACUUM, 1 - MEDICAL AIR, AND 1 - WAGO.
 - 3. PRE/PACK TABLES SHALL HAVE TWO 1/2" INSTRUMENT AIR DROPS. PROVIDE 1/2" AIR TO AIR GUN. AIR SHALL CONNECT TO INSTRUMENT AIR COMP. VERIFY AIR PRESSURE WITH OWNER. PROVIDE AIR PRESSURE REGULATORS. PROVIDE QUICK CONNECTS FOR OWNERS EQUIPMENT. COORDINATE AIR DROP LOCATION WITH OWNER PRIOR TO INSTALLATION.
 - 4. AMSCO REPROCESSING SINK - PROVIDE 1/2" AIR TO AIR GUN. AIR SHALL CONNECT TO INSTRUMENT AIR COMP. AIR SHALL BE SET AT 30 PSI DYNAMIC. PROVIDE AIR PRESSURE REGULATORS. COORDINATE AIR DROP LOCATION.
 - 5. AMSCO 7053P - PROVIDE 1/2" AIR. AIR PRESSURE SHALL BE BETWEEN 80-125 PSI DYNAMIC. PROVIDE AIR PRESSURE REGULATORS.
 - 6. AMSCO 600 MEDIUM STEAM STERILIZER - PROVIDE 1/2" AIR. AIR PRESSURE SHALL BE BETWEEN 80-100 PSI DYNAMIC. PROVIDE AIR PRESSURE REGULATORS.
 - 7. INSTALL HIGH PRESSURE TO MEDIUM PRESSURE AIR REGULATORS TO ADJUST AIR PRESSURE FROM INSTRUMENT AIR COMPRESSOR. OUTGOING PRESSURE FROM COMPRESSOR IS 200 PSIG.

(A1) FIRST FLOOR PLAN - MEDICAL GAS
3/16" = 1'-0"

RATED WALLS & PARTITIONS

FIRE BARRIER	FIRE & SMOKE BARRIER
1-HOUR	1-HOUR
2-HOUR	2-HOUR

SMOKE TIGHT PARTITION

SMOKE	SUITE PERIMETER

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SHEET NAME
FIRST FLOOR PLAN - MEDICAL GAS

SHEET NUMBER
PG201

