GENERAL PLUMBING NOTES

- A. COORDINATE PLUMBING PIPING WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.
- B. SLOPE WATER PIPING FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINTS.
- C. PROVIDE ACCESS PANELS AT CONCEALED VALVES, WATER HAMMER ARRESTORS AND OTHER DEVICES ABOVE
- HARD CEILINGS AND WALLS. D. PROVIDE CLEANOUTS WITH TOPS DESIGNED FOR SPECIFIC FLOOR FINISHES SUCH AS CARPET, TILE, ETC. UNLESS
- NOTED OTHERWISE. E. COORDINATE WALL AND FLOOR PENETRATIONS AND INSTALL SLEEVES IN FLOORS.
- F. REFER TO EQUIPMENT DETAILS FOR VENT PIPING AND VALVING NOT INDICATED ON THE PLANS.
- G. DO NOT SCALE DRAWINGS. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF DOORS, WINDOWS,
- H. LOCATE VERTICAL SUPPLY, STORM DRAINS, SANITARY WASTE, AND VENT PIPING IN WALLS OR PARTITIONS, UNLESS NOTED OTHERWISE.
- I. LOCATE SUPPLY AND VENT PIPING ABOVE CEILING, UNLESS NOTED OTHERWISE.
- J. EXTEND VENTS UP AND COLLECT VENTS ABOVE THE CEILING.
- K. PROVIDE FOR ACCESS TO EQUIPMENT REQUIRING CLEANING, ADJUSTMENT OR MAINTENANCE.
- L. COORDINATE ALL PHASES OF WORK AND INTERRUPTIONS IN SERVICE.

NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK.

- M. THESE ENGINEERING DRAWINGS ARE DIAGRAMMATIC. PROVIDE WORK AND MATERIAL FOR A COMPLETE INSTALLATION. MAKE PROPER HOT AND COLD WATER, WASTE, VENT, ETC., PIPING CONNECTION TO FIXTURES AND EQUIPMENT. PROVIDE PIPE ESCUTCHEONS, DIELECTRIC UNIONS, DRIP PANS, PIPE LABELS. VALVE TAGS, ANCHORS, SUPPORT SEALS, SLEEVE SEALS, ISOLATION VALVES, CLEANOUTS, ETC. IN QUANTITIES FOR A COMPLETE SYSTEM. PROVIDE EQUIPMENT, PLUMBING FIXTURES, TRIM HARDWARE AND / OR DEVICES UTILIZED IN THIS CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THESE DRAWINGS, BUT ARE
- N. PROVIDE INSULATION ON NEW PIPING PER SPECIFICATIONS.
- O. LOCATE PIPING STACKS AND RISERS OUTSIDE OF LOAD BEARING WALLS.
- P. PIPING SHALL NOT BE ROUTED ABOVE IT ROOMS, ELECTRICAL ROOMS, ELECTRICAL EQUIPMENT, OR UNDERNEATH ELECTRICAL ROOMS.
- Q. PIPE HANGERS, BRACES AND RESTRAINTS SHALL ADEQUATELY SUPPORT THE SYSTEM HORIZONTALLY AND VERTICALLY AND SHALL ALLOW FOR MOVEMENT WITHOUT TRANSMITTING STRESS OR VIBRATION TO THE STRUCTURE. HANGERS ON INSULATED PIPING SHALL BE PROVIDED WITH AND SHALL BE SIZED TO ACCOMMODATE HANGER SHIELDS. HORIZONTAL SOIL, WASTE AND VENT PIPING HUNG FROM BUILDING CONSTRUCTION SHALL BE SUPPORTED AT NOT OVER 5 FEET NEXT TO FITTINGS. PROVIDE ADDITIONAL SUPPORT AT JOINT, CHANGES IN DIRECTION AND ELSEWHERE AS REQUIRED TO MAINTAIN PROPER ALIGNMENT.
- R. CLEAN FIXTURES, ADJUST VALVES, AND LEAVE THE SYSTEM IN GOOD WORKING ORDER. REMOVE DEBRIS AND RUBBISH AND REPAIR ANY DAMAGE CAUSED BY THE WORK.
- S. SEAL PENETRATIONS OF FIRE RATED WALLS USING UL LISTED PENETRATION MATERIALS.
- T. PROVIDE SUPPORT DEVICES. ALL LOCATIONS SHOULD BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION. DO NOT USE THE SUPPORTS OF OTHER TRADES.
- U. PRIOR TO THE START DEMOLITION, THE CONTRACTOR SHALL LOCATE ALL SANITARY AND DOMESTIC WATER RISERS. DESTRUCTIVE INVESTIGATION SHALL BE REQUIRED. ALL SUBSEQUENT HOLES AND OR OPENING MADE DURING INVESTIGATION SHALL BE REPAIRED TO MATCH SURROUNDING AREA. COORDINATE WITH COR ACCESS TO SENSITIVE AREA ACCORDINGLY. DESTRUCTIVE INVESTIGATION SHALL BE LIMITED TO THE PHASE THAT WORK OCCURS WITHIN.
- V. PROVIDE BASE BID SINGLE P-TRAPS (BASIS OF DESIGN: KOHLER).
- W. PROPRESS TYPE FITTINGS SHALL NOT BE ALLOWED.

eighth inch = one foot

4 8 16

BIM 360://18002 Fayetteville AR Renovate Med Surge Ward/18002 PLUM 2020.rvt

SYMBOL LEGEND									
SYMBOL	DESCRIPTION		ABBREVIATIONS						
	PIPE TURNING DOWN	ABV	ABOVE						
<u> </u>	PIPE TURNING UP	AFF	ABOVE FINISH FLOOR						
 =		BLW	BELOW						
	PIPE CAP	BF BFF	BARRIER FREE BELOW FINISH FLOOR						
	TEE TURNING DOWN	CO	CLEANOUT						
	TEE TURNING UP	CONT	CONTINUATION						
\bowtie	CIRCUIT SETTER	DCW	COLD WATER						
	OINCOM GENERA	DFU	SANITARY DRAINAGE FIXTURE UNITS						
	SHUT-OFF VALVE	DN	DOWN						
→	OHEOKAMAK	E	EXISTING						
	CHECK VALVE	FCO FD	FLOOR CLEANOUT FLOOR DRAIN						
abla	BALANCING VALVE (PLUG TYPE)	FR, FRM	FROM						
	,	FLR	FLOOR						
	PRESSURE REDUCING VALVE	FPHB	FROST PROOF HOSE BIBB						
O FD	FLOOR DRAIN	НВ	HOSE BIBB						
	, 2001, 2001,	DHW	HOT WATER						
RD RD	ROOF DRAIN	DHWR	HOT WATER RETURN						
ORD	OVERFLOW ROOF DRAIN	I.E., INV. EL. LAV	HOT WATER RETURN LAVATORY						
₩ OND	OVERFLOW ROOF DRAIN	MH	MOUNTING HEIGHT						
—© <u>FCO</u>	FLOOR CLEANOUT	N.O.	NORMALLY OPEN						
		N.C. NC	NORMALLY CLOSED						
<u> </u>	END-OF-LINE CLEANOUT	ORD	OVERFLOW ROOF DRAIN						
<u> </u>	WALL CLEANOUT	ORL	OVERFLOW ROOF LEADER						
		PSI	POUNDS PER SQUARE INCH						
O YCO	YARD CLEANOUT	RD RI	ROOF DRAIN						
Q _{SA-A}	SHOCK ARRESTER (SUFFIX INDICATES PDI SIZE)	RL RO	ROOF LEADER REVERSE OSMOSIS						
1 5		SA	SHOCK ARRESTOR						
—- -	UNION	SAN, S	SANITARY						
О→ FРНВ	FROST BROOF HOSE BIR	SD	STORM DRAIN						
O 1 11113	FROST PROOF HOSE BIB	ST	STORM						
——— НВ	HOSE BIB	SS	SERVICE SINK						
		TD	TRENCH DRAIN						
TP	TRAP PRIMER	TW	TEMPERED WATER						
	DIRECTION OF FLOW	TYP V	TYPICAL VENT						
_	DIRECTION OF LEGAN	V VB	VACUUM BREAKER						
	POINT OF DEMOLITION	VTR	VENT THRU ROOF						
		wco	WALL CLEANOUT						
•	CONNECT TO EXISTING								
-	FLEXIBLE CONNECTOR								
	MIXING VALVE								

PIPE LEGEND							
NEW PIPE	PIPE DESCRIPTION						
	DOMESTIC COLD WATER						
	DOMESTIC COLD WATER RETURN						
	DOMESTIC HOT WATER						
	DOMESTIC HOT WATER RETURN						
	SANITARY WASTE						
	VENT						
A	MEDICAL AIR						
v	MEDICAL VACUUM						
o	OXYGEN						
——— DA———	DENTAL AIR						

	RECIRCULATING PUMP SCHEDULE											
TAG	FLOW RATE (GPM)	HEAD PRESSURE	INLET SIZE	OUTLET SIZE	VOLTAGE	POWER VOLTAGE WATT HZ.		REMARKS				
1-RP-1-3	5	20 FT.HD.	1/2" NPT	1/2" NPT	120	28	60	BASIS OF DESIGN: BELL AND GOSSETT ECOCIRC CIRCULATOR 20-18.				

- 1. PUMP SHALL BE POWERED FROM EMERGENCY POWER ONLY. 2. RATED FOR USE IN POTABLE WATER SYSTEM. LEAD FREE CONSTRUCTION.
- B. PROVIDE WITH HARD WIRE CONNECTION. I. DISCONNECT TO BE PROVIDED BY DIVISION 26. 5. MULTI-SPEED PUMP. SET TO CONSTANT PRESSURE MAXIMUM HEAD PRESSURE SETTING.

	PACKAGE BOOSTER PUMP SCHEDULE																			
			0)/07514					CIRCULA	TING FLUID				- DDEGGUDE	OUTLET BUFFER		ELECTF	CAL MO	TOR		
		AREA AND/OR	SYSTEM AND/OR			NO.	FLOW EA.	HEAD EA.	MIN NPSH				PRESSURE TRANSMITTER	TANK ACCEPTANCE	NOMINAL			MAX	SPEED	
MARK	LOCATION	BLDG SERVED	SERVICE	TYPE	FLUID	PUMPS	PUMP	PUMP	AVAIL	TEMPERATURE	SP GR	% EFF.	SETPOINT	VOLUME		PHASE	VOLT	RPM		NOTES
1-PBP-1	MECH	BUILDING #1	DOMESTIC	END	DOMESTIC	3	225 GPM	80 FT	N/A	50°F	1	90	80 PSIG	54 GAL	7.5 HP	3	208	3600	VARIABLE	1-7
	ROOM		WATER	SUCTION	COLD															
				BASE MOUNTED	WATER															
NOTES:																				

1. PUMPS ARE TO BE ON EMERGENCY POWER. 2. PACKAGED SKID MOUNTED SYSTEM. 3-50% FLOW PUMPS.

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- 3. BASIS OF DESIGN: SYNCROFLO. MODEL PRO-22TH07. 4. PROVIDE NEMA 4R RATED ENCLOSURES ON VFD'S & CONTROL PANEL.
- PROVIDE BACNET INTERFACE.
- 7. PROVIDE WITH VARIABLE FREQUECY MOTOR DRIVE FOR EACH PUMP. FURNISHED BY MANUFACTURER AND INSTALLED BY DIV. 22. VFD SHALL MEET
- 6. INSTALL PRESSURE SENSOR AT TOP OF SYSTEMS ON AT THE TOP FLOOR OF THE BUILDING. THE REQUIRMENTS OF SPECIFICATION SECTION 26 29 11. DISCONNECT BY DIV. 26.

MARK	DESCRIPTION	SAN	VENT	HW	CW	REMARKS
P104	WALL MOUNTED WATER CLOSET, WALL OUTLET	4"	2"	-	11/4"	ADA - ELONGATED BOWL, SIPHON JET, WALL OUTLET WITH BED PAN LUGS, MANUAL FLUSH VALVE, ANTI-MICROBIAL SURFACE, OPEN-FRONT HEAVY-DUTY SEAT LESS COVER, WATER CLOSET AND CARRIER RATED FOR 800 LBS. TOP OF SEAT @ 18"A.F.F., 1.28 GPF FLOW RATE.
P114	WATER CLOSET, WALL OUTLET, BARIATRIC RATED	4"	2"	-	11⁄4"	ELONGATED BOWL, SIPHON JET, FLOOR MOUNTED, WALL OUTLET, WITH BED PAN LUGS-BED PAN WASHER, MANUAL FLUSH VALVE, ANTI-MICROBIAL SURFACES, OPEN FRONT, 304 STAINLESS STEEL WITH WITH WHITE POWDER COATING. HEAVY DUTY SEAT LESS COVER, WATER CLOSET AND CARRIER RATED FOR 1000 LBS. TOP OF SEAT @ 18" A.F.F., 1.6 GPF FLOW RATE.
P408	LAVATORY	1½"	1½"	1/2"	1/2"	WALL HUNG, VITREOUS CHINA; APPROXIMATELY 18"X15" WITH MAXIMUM 4" APRON. PROVIDE LAVATORY CARRIER, AND HARDWIRED SENSOR FAUCET WITH GOOSE NECK SPOUT. PROVIDE WITH HARDWIRED TRANSFORMER. PROVIDE WITH TV-1 MIXING VALVE SET @ 110°F (ADJUSTABLE) IN COMPLIANCE WITH ASSE 1070. 0.5 GPM FLOW RATE. INSTALL TRANSFORMER IN CEILING SPACE. PROVIDE TRANSFORMER WITH A POWER LEAD OF NO LESS THAN 10'-0".
P417	LAVATORY	1½"	1½"	1/2"	1/2"	DROP-IN, COUNTERTOP MOUNTED, VITREOUS CHINA; OVAL SHAPE APPROXIMATELY 19" WIDE BOWL, AND MANUAL FAUCET WITH GOOSE NECK SPOUT AND 6" WRIST BLADES. BOTTOM OF EXTERIOR BOWL SHALL BE NO DEEPER THAN 4" BELOW TOP OF RIM. PROVIDE WITH TV-1 MIXING VALVE SET @ 110°F (ADJUSTABLE) IN COMPLIANCE WITH ASSE 1070. 0.5 GPM FLOW RATE.
P420	LAVATORY	1½"	1½"	1/2"	1/2"	SEMI-COUNTER TOP MOUNTED, VITREOUS CHINA; OVAL SHAPE APPROXIMATELY 18" WIDE BOWL, GOOSE NECK SPOUT, HARD-WIRED SENSOR FAUCET, PROVIDE WITH TRANSFORMER. ADA COMPLIANT. PROVIDE WITH TV-1 MIXING VALVE SET @ 110°F (ADJUSTABLE) IN COMPLIANCE WITH ASSE 1070. CHROME PLATED BRASS GRID STRAINER, CHROME PLATED CAST BRASS P-TRAP, 1/4 TURN KEYED TYPE ANGLE STOPS. 0.5 GPM FLOW RATE.
P502	MOP RECEPTOR	3"	2"	3/4"	3/4"	FLOOR MOUNTED TERRAZZO MOP BASIN, CHROME PLATED CAST BRASS WALL MOUNTED SERVICE SINK FAUCET W/ VACUUM BREAKER, STAINLESS STEEL BACK SPLASH TWO SIDES TO 60" A.F.F.
P505	CLINICAL SERVICE SINK	4"	2"	1"	1"	WALL MOUNTED FLUSHING RIM SINK WITH BEDPAN WASHER AND SINGLE SPOUT FAUCET WITH FOOT PEDALS, MANUAL FLUSH VALVE WITH FOOT PEDAL. 6.5 GPF FLOW RATE.
P528	SINGLE COMPARTMENT SINK	1½"	1½"	1/2"	1/2"	CORROSION RESISTANT STEEL, 18 GAUGE, COUNTER TOP KITCHEN SINK. SELF-RIMMING, BACK FAUCET LEDGE, APPROXIMATELY 21X22 INCHES WITH SINGLE COMPARTMENT INSIDE DIMENSIONS APPROXIMATELY 16X19X6.0 INCHES DEEP. FAUCET WITH SWIVEL GOOSENECK SPOUT AND WRIST BLADES. PROVIDE WITH TV-1 MIXING VALVE SET @ 110°F (ADJUSTABLE) IN COMPLIANCE WITH ASSE 1070. 2.5 GPM FLOW RATE.
P609	ELECTRIC WATER COOLER	1½"	1½"	-	1/2"	WALL HUNG DUAL UNIT, REFRIGERATED, STAINLESS STEEL, LOW SIDE MOUNTED AT HANDICAPPED HEIGHT, BOTTLE FILLER.
P701	SHOWER FIXTURE	2"	1½"	1/2"	1/2"	ADA - SINGLE LEVEL WITH FIXED AND DETACHABLE HEADS. THE MIXING VALVE SHALL BE PRESSURE AND TEMPERATURE INDEPENDENT. WALL MOUNTED, CONCEALED SUPPLIES, COMBINATION VALVE FACE PLATE AND SCREW DRIVER STOPS.
P707	EMERGENCY SHOWER & EYE & FACE WASH	2"	1½"	1-1/4"	1-1/4"	FREE STANDING, STAINLESS STEEL RECEPTOR, CHROME SHOWER HEAD, PULL-ROD CONTROL, PROVIDE TV-2 MIXING VALVE SET @ 85 DEG. F. (TEPID), 23 GPM FLOW.
P708	EMERGENCY EYE & FACE WASH	2"	1½"	1/2"	1/2"	WALL MOUNTED, STAINLESS STEEL RECEPTOR, FOOT PEDAL CONTROL, PROVIDE TV-2 MIXING VALVE SET @ 85 DEG. F. (TEPID), 3 GPM FLOW.
P710	EMERGENCY EYE & FACE WASH	-	-	1/2"	1/2"	WALL MOUNTED, CORROSION RESISTANT STEEL, AUTOMATIC CONTROL, PROVIDE TV-1 MIXING VALVE SET @ 85 DEG. F. (TEPID), 3 GPM FLOW.
P809	DIALYSIS WALL BOX	2"	1½"	1/2"	-	RECESSED WALL MOUNTED, STAINLESS STEEL ENCLOSURE WITH FLANGED DOOR, 16 GAUGE STAINLESS STEEL CONSTRUCTION, INDIRECT DRAIN IN BOX, STAINLESS STEEL BALL VALVE WITH FLUSHING NIPPLE, INSTALL @ 36" ABOVE FINISHED FLOOR TO BOTTOM OF BOX, PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER, AIR GAP TO SANITARY SEWER. ALTERNATE #2: REFER TO DEDUCT ALT. NOTES ON SHEETS PL-101,103,106 & 108.
P812	ICE MAKER CONNECT BOX	-	-	1/2"	-	WALL MOUNTED, QUICK CLOSING VALVE.

REFER TO ARCHITECTURE PLANS FOR MOUNTING HEIGHT OF FIXTURES AND EQUIPMENT. . COORDINATE FLUSH VALVE INSTALLATION WITH GRAB BAR, IF APPLICABLE.

REMOVE FIXTURE P809 AND ASSOICATED ACCESSORIES , FROM BASE BID, FOR ALTERNATE 2 AND/OR 3. 4. PROVIDE TRAP PRIMER ON COLD WATER SUPPLY PIPING FOR FIXTURES IN CLOSE PROXIMITY TO A FLOOR DRAIN. THE INCLUDES

FIXTURES P-408, 420, 528, 707 & 708.

	THERMOSTATIC MIXING VALVE SCHEDULE									
TAG	FLOW RATE (GPM)	AVG. TEMPERATURE (°F)	INLET SIZE	OUTLET SIZE	REMARKS					
TV-1	0.5-4	85 (TEPID) & 110 (TEMPERED)	3/8"	3/8"	FOR LAVATORIES, SINKS, AND EYE & FACE WASHES - BASIS OF DESIGN, LEONARD 170-LF					
TV-2	20-23	85 (TEPID)	1-1/4"	1-1/4"	FOR EMERGENCY SHOWER - BASIS OF DESIGN, LEONARD 170-LF					

	DRAINS AND CLEANOUTS									
TAG	ТҮРЕ	SIZE	NOTES							
FD"B"	FLOOR DRAIN	3"	PROVIDE TRAP PRIMER CONNECTION FOR FLOOR DR FOR EMERGENCY EYE / FACE / SHOWER AREA.							
FD"C"	SHOWER DRAIN	2"								
FD"C"	FLOOR DRAIN	3"	PROVIDE TRAP PRIMER CONNECTION FOR FLOOR DE IN PATIENT BATH ROOM SINK AREAS.							
FD"W"	HUB DRAIN	4"								
FCO	CAST IRON ADJUSTABLE FLOOR CLEANOUT WITH ROUND NICKEL BRONZE TOP	BY PIPE SIZE								
WCO	CAST IRON WALL CLEANOUT W/ CAST BRASS THREADED PLUG PROVIDE WITH STAINLESS STEEL WALL PLATE	BY PIPE SIZE								

DESCRIPTION	BASIS OF DESIGN	REMARKS
MEDICAL GAS ZONE VALVE BOX ASSEMBLIES: <u>2V 2XX1</u> - 3/4" V x 1/2" O, x 1/2" MA <u>2V 2XX3</u> - 1-1/2" V X 1" O x 1" MA	CHEMTRON MODEL # 77-83-0335	SEE NOTE 4, 5
MEDICAL GAS WALL OUTLETS: MGO-1 - 3/4" V - (QTY-4) / 1/2" O - (QTY-2) / 1/2" MA - (QTY-2)	FURNISHED WITH NEW HEADWALLS. FINAL CONNECTION BY PLUMBING CONTRACTOR.	SEE NOTES 1, 4, 6
OXYGEN WALL OUTLETS	FURNISHED WITH NEW HEADWALLS. FINAL CONNECTION BY PLUMBING CONTRACTOR.	SEE NOTES 2, 4, 6
VACUUM WALL OUTLETS	FURNISHED WITH NEW HEADWALLS. FINAL CONNECTION BY PLUMBING CONTRACTOR.	SEE NOTES 3, 4, 6
VACUUM SLIDE ASSEMBLIES	FURNISHED WITH NEW HEADWALLS.	SEE NOTE 4 REMOTE ANNUNCIATOR AT NURSE STATION

6. CONTRACTOR SHALL COORDINATE CONNECTIONS TO HEADWALLS WITH HEADWALL MANUFACTURER PROVIDED. MED GAS CONNECTIONS PROVIDE

4. SEE SHEET GI002 FOR MOUNTING HEIGHTS, PROVIDE REMOTE ANNUNCIATION AT NURSES STATION.

MEDICAL GAS ALARM PANEL SCHEDULE											
SYMBOL	OXYGEN HIGH/LOW LINE PRESS.	AIR HIGH/LOW LINE PRESS.	VACUUM LOW LINE PRESS.	LINE PRESS. ALARM W/ GAUGES	MANUFACTURER MODEL NO.						
AP-2B23 & AP-2B11 SEE PLANS FOR LOCATIONS	X	Х	Х	Х	CHEMTRON 74-15-OAV						

OHIO MEDICAL DISS HAND TIGHT+ OR DISS NUT AND GLAND.

BASIS OF DESIGN FOR MEDICAL GAS ALARM PANEL IS CHEMTRON, MATCH EXISTING ALARM PANELS IN BUILDING. **CONSULTANTS:** Digital Signature not valid without Certificate below seal. **ARCHITECT / ENGINEERS:** GENERAL NOTES, LEGENDS, & RENOVATE MED SURGE Description **SCHEDULES** WARDS

HARREL

DESIGN GROUP, PC .

formerly HARRELL, SALTRICK & HOPPER, PC

Engineering Service OF THE OZARKS

8016 TOWER POINT DRIVE P 704.814.1320 BID DOCUMENTS F 704.321.0833 **FULLY SPRINKLERED**

5. PROVIDE VALVES AND GAUGES.

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Checked: MARCH 24, 2024 || WGG

DM

OF THE OZARKS

VETERANS HEALTHCARE SYSTEM

Building Number:

VETERANS HEALTH CARE SYSTEM U.S. Department of Veterans Affairs