

MEDICAL GAS EQUIPMENT		
SYMBOL	MANUFACTURER MODEL NO.	LOCATION
MEDICAL GAS ZONE VALVE BOX(ZV-1) TRIPLE VALVE BOX CHEMETRON: MODEL # 77-83-0335	SEE PLAN FOR VALVE SIZES AND QUANTITY.	MOUNTING HEIGHT AT 5'-6" TO TOP OF BOX. PROVIDE VALVES WITH GAUGES.
MEDICAL GAS OR VACUUM WALL OUTLETS QUICK CONNECT TYPE	FURNISHED WITH NEW HEADWALLS. FINAL CONNECTION BY PLUMBING CONTRACTOR	CONTRACTOR SHALL COORDINATE CONNECTIONS TO HEADWALLS WITH HEADWALL MANUFACTURER PROVIDED.
VACUUM SLIDE ASSEMBLY	FURNISHED WITH NEW HEADWALLS	MOUNT AT SAME LEVEL AS GAS OUTLETS.
PROVIDE EQUIPMENT MANUFACTURED BY CHEMETRON - NO SUBSTITUTIONS. COORDINATE SPECIFIC OUTLET TYPES WITH COR.		

MEDICAL GAS ALARM PANEL SCHEDULE												
SYMBOL	OXYGEN		NITROUS OXIDE		AIR	VACUUM	NITROGEN		EVAC.	MASTER PANEL	LINE PRESS. ALARM W/GAUGES	MANUFACTURER MODEL NO.
	LIQUID LEVEL LOW	RESERVE IN USE (OR LOW)	HIGH/LOW LINE PRESS.	LIQUID LEVEL LOW	RESERVE IN USE (OR LOW)	HIGH/LOW LINE PRESS.	LOW LINE PRESS.	HIGH/LOW LINE PRESS.	RESERVE IN USE (OR LOW)			
AP-1 SEE PLAN FOR LOCATIONS			●			●	●				●	CHEMETRON 74-15-OAV
PROVIDE UNIT MANUFACTURED BY CHEMETRON - NO SUBSTITUTIONS.												

DOMESTIC WATER CALCULATION			
FIXTURE	QUANTITY	FIXTURE UNITS CW	SUB-TOTAL
WATER CLOSET	7	10	70
LAVATORY	11	1	11
SINK	3	2	6
WATER COOLER	1	.5	.5
SHOWER	5	2	10
CLINICAL SS	1	4	4
TOTAL			101
101 FIXTURE UNITS = 44 GPM MAXIMUM DEMAND 2" COLD WATER SERVICE REQUIRED.			
NOTE: FIXTURE UNIT VALUES TAKEN FROM PLUMBING DESIGN MANUAL DEPARTMENT OF VETERAN AFFAIRS.			

SANITARY SEWER CALCULATION			
FIXTURE	QUANTITY	FIXTURE UNITS DFU	SUB-TOTAL
WATER CLOSET	7	6	42
LAVATORY	11	1	11
SINK	3	3	9
WATER COOLER	1	.5	.5
SHOWER	5	2	10
CLINICAL SS	1	5	5
TOTAL			77.5
77.5 FIXTURE UNITS = 4" SANITARY SEWER			
NOTE: FIXTURE UNIT VALUES TAKEN FROM PLUMBING DESIGN MANUAL DEPARTMENT OF VETERAN AFFAIRS.			

PIPE LEGEND			
NEW PIPE	EXISTING PIPE TO REMAIN	EXISTING PIPE TO BE REMOVED	PIPE DESCRIPTION
---	(E)CW	(E)CW	DOMESTIC COLD WATER
---	(E)HW	(E)HW	DOMESTIC HOT WATER
---	(E)HWR	(E)HWR	DOMESTIC HOT WATER RETURN
---	(E)SAN	(E)SAN	SANITARY WASTE
---	(E)SAN	(E)SAN	SANITARY WASTE (UNDERGROUND)
---	(E)V	(E)V	VENT
---	(E)SD	(E)SD	STORM DRAIN
A	(E)MA	(E)MA	MEDICAL AIR
V	(E)V	(E)V	VACUUM
O	(E)O	(E)O	OXYGEN
AW			CHEMICAL RESISTANT WASTE

PLUMBING FIXTURE SCHEDULE						
MARK	DESCRIPTION	SAN	VENT	HW	CW	REMARKS
P103	WALL MOUNTED WATER CLOSET (STAFF TOILET)	4"	2"	-	1"	MANUAL FLUSH VALVE ADA HEIGHT
P104	WALL MOUNTED WATER CLOSET	4"	2"	-	1"	MANUAL FLUSH VALVE WITH BEDPAN WASHER ADA HEIGHT. FLUSH VALVE TO HAVE OFFSET TAILPIECE TO MISS GRAB BAR.
P114	WALL MOUNTED WATER CLOSET (BARIATRIC TOILETS)	4"	2"	-	1"	MANUAL FLUSH VALVE, BARIATRIC W BEDPAN WASHER ADA HEIGHT
P402	LAVATORY	2"	2"	1/2"	1/2"	WALL HUNG 20" X 18" VITREOUS CHINA WITH GOOSENECK WRIST BLADE FAUCET; SUPPLIES AND P-TRAP TO BE INSULATED; ADA COMPLIANT.
P403	LAVATORY ( HAND SINK )	2"	2"	1/2"	1/2"	WALL HUNG 20" X 18" VITREOUS CHINA WITH GOOSENECK FOOT CONTROL FAUCET; SUPPLIES AND P-TRAP TO BE INSULATED; ADA COMPLIANT.
P505	CLINICAL SERVICE SINK MOUNT RIM 27" AFF	4"	2"	1"	1"	WALL MOUNTED FLUSHING RIM SINK WITH FOOT CONTROL BEDPAN WASHER, SINGLE SPOUT FAUCET, AND FLUSH VALVE
P528	SINK	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT UNDERMOUNT STAINLESS STEEL, 12" X 16" X 5 1/2" (NOTE 4) - COMPLY WITH ADA.
P604	WATER COOLER	2"	2"	-	1/2"	WALL HUNG SINGLE UNIT STAINLESS STEEL WITH INTEGRAL FILTER ASSEMBLY.
P-704	SHOWER ADA	2"	2"	1/2"	1/2"	ADA CONFIGURED SHOWER WITH TEMPERATURE AND PRESSURE BALANCE VALVE ASSEMBLY
P-710	EMERGENCY EYE AND FACE WASH	-	-	1/2"	-	TEPID WATER. SEE SHEET PP101 FOR MIXING VALVE LOCATION.
P-808	WASHER BOX FOR ICE MAKER	2"	-	-	1/2"	EPOXY COATED FINISH
P-809	DIALYSIS BOX	2"	-	-	1/2"	STAINLESS STEEL WITH LOCKABLE COVER. BOXES TO BE MOUNTED IN HEADWALL SEE SHEET AE401

NOTE:  
 1. REFER TO ARCHITECTURE PLANS FOR MOUNTING HEIGHT OF FIXTURES AND EQUIPMENT.  
 2. COORDINATE FLUSH VALVE INSTALLATION WITH GRAB BAR.  
 3. CONTRACTOR SHALL SUBMIT TO ARCHITECT/COR REPRESENTATIVE CUT SHEETS FOR ALL PLUMBING FIXTURES PRIOR TO PURCHASE AND/OR INSTALLATIONS SO THAT APPROVAL AND REVIEW CAN BE COORDINATED AND AGREED ON CONCERNING FIXTURE TYPE TO BE FURNISHED/INSTALLED.  
 4. DEPTH FROM TOP OF COUNTER TO BOTTOM OF BOWL - COMPLY WITH ADA.

SYMBOL LEGEND		
SYMBOL	DESCRIPTION	ABBREVIATIONS
→	PIPE TURNING DOWN	ABV ABOVE
←	PIPE TURNING UP	ADA AMERICANS W/ DISABILITIES ACT
○	PIPE CAP	AFF ABOVE FINISH FLOOR
⊥	TEE TURNING DOWN	AW ACID WASTE
⊥	TEE TURNING UP	BLW BELOW
⊥	SHUT-OFF VALVE	BF BARRIER FREE
⊥	CHECK VALVE	BFF BELOW FINISH FLOOR
⊥	BALANCING VALVE (PLUG TYPE)	CO CLEANOUT
⊥	FLOOR DRAIN	CO CONTINUATION
⊥	TRENCH DRAIN	CW COLD WATER
⊥	FLOOR CLEANOUT	DFU SANITARY DRAINAGE FIXTURE UNITS
⊥	END-OF-LINE CLEANOUT	DN DOWN
⊥	WALL CLEANOUT	E EXISTING
⊥	SHOCK ARRESTOR (SUFFIX INDICATES PDI SIZE)	FCO FLOW CONTROL DEVICE
⊥	UNION	FCO FLOOR CLEANOUT
⊥	HOSE BIB	FD FLOOR DRAIN
⊥	TRAP PRIMER	FLR FLOOR
⊥	DIRECTION OF FLOW	HB HOSE BIBB
⊥	POINT OF DEMOLITION	HW HOT WATER
⊥	CONNECT TO EXISTING	HWR HOT WATER RETURN
⊥	MEDICAL GAS ALARM PANEL	LAV LAVATORY
⊥	ZONE VALVE BOX	MH MOUNTING HEIGHT
		PSI POUNDS PER SQUARE INCH
		SA SHOCK ARRESTOR
		SAN, S SANITARY
		SS SERVICE SINK
		TD TRENCH DRAIN
		TYP TYPICAL
		UL UNDERWRITER'S LABORATORIES
		V VENT
		VB VACUUM BREAKER
		VTR VENT THRU ROOF
		WCO WALL CLEANOUT
		AP-"X" MEDICAL GAS ALARM PANEL "X"
		ZV-"X" ZONE VALVE BOX

- ### GENERAL PLUMBING NOTES
- PLUMBING PIPING SHALL BE COORDINATED WITH ALL TRADES TO AVOID CONFLICTS, IN ORDER TO PROVIDE A CODE COMPLIANT INSTALLATION, THIS SHALL INCLUDE ALL PHASES OF WORK AND EQUIPMENT SPACES AND INTERRUPTIONS OF SERVICES WITH COR.
  - WATER PIPING SHALL BE SLOPED FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINTS.
  - ACCESS PANELS SHALL BE PROVIDED AT CONCEALED VALVES, SHOCK (WATER HAMMER) ARRESTORS AND OTHER DEVICES ABOVE HARD CEILINGS AND WALLS.
  - IF EQUIPMENT IS SUBMITTED AND ACCEPTED WITH UTILITY CONNECTIONS OTHER THAN AS SHOWN ON THE DRAWINGS AND SCHEDULES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE PROPER UTILITY CONNECTIONS TO THIS EQUIPMENT AT NO ADDITIONAL COST.
  - CLEANOUTS SHALL HAVE TOPS DESIGNED FOR SPECIFIC FLOOR FINISHES SUCH AS CARPET, TILE, ETC., UNLESS NOTED OTHERWISE.
  - THE CONTRACTOR SHALL DO ALL CUTTING OF WALLS, FLOORS, AND CEILINGS AS REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM.
  - REFER TO EQUIPMENT DETAILS FOR VENT PIPING AND VALVING NOT INDICATED ON THE PLANS.
  - DRAWINGS SHALL NOT BE SCALED. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF DOORS, WINDOWS, WALLS, ETC.
  - ALL VERTICAL SUPPLY, SANITARY WASTE, AND VENT PIPING SHALL BE LOCATED IN WALLS OR PARTITIONS, UNLESS NOTED OTHERWISE.
  - SUPPLY PIPING SHALL BE LOCATED ABOVE THE CEILING, UNLESS NOTED OTHERWISE.
  - VENTS WILL BE COLLECTED ABOVE THE CEILING AND EXTENDED UP IN AND CONNECT TO EXISTING VENT THRU ROOF.
  - PROVIDE FOR ACCESS TO ALL EQUIPMENT REQUIRING CLEANING, ADJUSTMENT OR MAINTENANCE.
  - PROVIDE NEW BALL VALVE SHUT-OFFS FOR EACH NEW TAP OF EXISTING WATER LINE AND AS INDICATED ON DRAWINGS.
  - THESE ENGINEERING DRAWINGS ARE DIAGRAMMATIC. IT IS THE INTENTION OF THESE DRAWINGS TO COVER ALL WORK AND MATERIAL FOR A COMPLETE INSTALLATION. MAKE PROPER HOT AND COLD WATER, WASTE, VENT, ETC., PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT. ALTHOUGH ALL FITTINGS AND CONNECTIONS ARE NOT SHOWN, THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING PIPE ESCUTCHEONS, DIELECTRIC UNIONS, DRIP PANS, PIPE LABELS, VALVE TAGS, ANCHORS, SUPPORT SEALS, SLEEVE SEALS, ISOLATION VALVES, CLEANOUTS ETC., IN QUANTITIES ADEQUATE TO SATISFY THE INTENT OF THE ENGINEER'S DOCUMENTS. ANY EQUIPMENT, PLUMBING FIXTURES, TRIM HARDWARE AND/OR DEVICES USUALLY UTILIZED IN THIS CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THESE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE COR) SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.
  - SMALL ITEMS NOT SHOWN OR SPECIFIED BUT OBVIOUSLY REQUIRED BY GOOD GENERAL PRACTICE TO COMPLETE THE WORK SHALL BE FURNISHED AND INSTALLED THE SAME AS IF BOTH SHOWN AND SPECIFIED.
  - PROVIDE INSULATION ON ALL NEW PIPING AND EQUIPMENT.
  - BY SUBMITTING A PROPOSAL FOR THIS WORK, THE CONTRACTORS WILL BE HELD TO HAVE EXAMINED THE SITE AND SATISFIED THEMSELVES AS TO EXISTING CONDITIONS UNDER WHICH THEY WILL BE OBLIGED TO OPERATE OR THAT WILL IN ANY MANNER AFFECT THEIR WORK UNDER THIS CONTRACT. NO ALLOWANCES SHALL BE MADE SUBSEQUENTLY IN THIS CONTRACT ON BEHALF OF THE CONTRACTOR FOR FAILING TO BECOME ACQUAINTED WITH THE PROJECT REQUIREMENTS AND EXISTING CONDITIONS PRIOR TO BIDDING.
  - ALL PIPING STACKS AND RISERS SHALL BE LOCATED OUTSIDE OF LOAD BEARING WALLS.
  - PIPING SHALL NOT BE ROUTED ABOVE I.T. CLOSETS, ELECTRICAL ROOMS, ELECTRICAL EQUIPMENT, OR UNDERNEATH ELECTRICAL ROOMS.
  - COMPLY WITH ALL SAFETY REGULATIONS SPECIFIED IN THE PROJECT SPECIFICATIONS AND P.L. 91-54, "FEDERAL CONSTRUCTION SAFETY ACT OF 1969" AND P.L. 91-596, "OCCUPATIONAL HEALTH AND SAFETY ACT OF 1970" IN THE PERFORMANCE OF THE WORK.
  - PIPE HANGERS: 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 SHALL BE EQUAL TO GRINNELL PRODUCTS. HANGERS ON INSULATED PIPING SHALL BE PROVIDED WITH AND SHALL BE SIZED TO ACCOMMODATE HANGERS, AND SHIELDS AND SADDLES. 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 JOINTS, CHANGES IN DIRECTION AND ELSEWHERE AS REQUIRED TO MAINTAIN PROPER ALIGNMENT.
  - SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS, CUT SHEETS AND BROCHURES TO THE COR IN ACCORDANCE TO THE PROJECT SPECIFICATIONS.
  - THE CONTRACTOR SHALL CLEAN ALL FIXTURES, ADJUST ALL VALVES, AND LEAVE THE SYSTEM IN GOOD WORKING ORDER, REMOVE ALL DEBRIS AND RUBBISH CAUSED BY HIS WORK, AND REPAIR ANY DAMAGE CAUSED BY HIS WORKMANSHIP.
  - THE PLUMBING CONTRACTOR SHALL SEAL ALL OF HIS PENETRATIONS OF FIRE RATED WALLS USING UL LISTED PENETRATION MATERIALS AS DETAILED ON DRAWINGS. SEE SHEET 0006 FOR UL DETAILS.
  - THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS IN WALLS AND FLOORS REQUIRED TO COMPLETE HIS WORK UNLESS OTHERWISE NOTED. HE SHALL VERIFY THE LOCATION AND SIZE OF ALL OPENINGS REQUIRED UNDER THIS CONTRACT WITH THE GENERAL CONTRACTOR.
  - WORK SHALL INCLUDE DEMOLITION AS INDICATED ON THE PLUMBING DRAWINGS AND INSTALLATION OF DOMESTIC HOT AND COLD WATER, WASTE, & VENT, AND MEDICAL GAS PIPING, ISOLATION VALVES, ZONE VALVES, AREA ALARM PANELS AS INDICATED ON PLUMBING DRAWINGS. THE DOMESTIC WATER SYSTEM COMPONENTS SHALL BE DESIGNED TO WITHSTAND THE MAXIMUM STATIC PRESSURE AND FLOW, BUT IN NO CASE SHALL BE LESS THAN 125 POUND CLASS.

REVISION NO.	REVISION DESCRIPTION	By	Date



Department of Veterans Affairs  
 Veterans Healthcare System of  
 the Ozarks  
 1100 North College Avenue  
 Fayetteville, AR 72703



Architect/Engineer Address



**HARRELL**  
 DESIGN GROUP, P.C.  
 Formerly HARRELL, SALTRICK & HOPPER, PC

8016 TOWER POINT DRIVE  
 CHARLOTTE, NC 28227  
 P 704.814.1320  
 F 704.321.0833  
 WWW.HARRELLDC.COM  
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 REG. PROJECT # 14001

APPROVALS:	
1. CHIEF OF ENGINEERING	

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