

MEDICAL GAS EQUIPMENT		
SYMBOL	MANUFACTURER MODEL NO.	LOCATION
MEDICAL GAS ZONE VALVE BOX(2V-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		LIQUID LEVEL LOW	NITROUS OXIDE		AIR HIGH/ LOW LINE PRESS.	VACUUM LOW LINE PRESS.	NITROGEN		EVAC. LOW LINE PRESS.	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.				
AP-1 SEE PLAN FOR LOCATIONS			●			●	●					●	CHEMETRON 74-15-OAV
PROVIDE UNIT MANUFACTURED BY CHEMETRON - NO SUBSTITUTIONS.													

DOMESTIC WATER CALCULATION			
FIXTURE	QUANTITY	FIXTURE UNITS	SUB-TOTAL
		CW	
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
----- SD -----	(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
PA02	LAVATORY	2"	2"	½"	½"	WALL HUNG 20" x 18" VITREOUS CHINA WITH GOOSENECK WRIST BLADE FAUCET; SUPPLIES AND P-TRAP TO BE INSULATED; ADA COMPLIANT.
PA03	LAVATORY (HAND SINK)	2"	2"	½"	½"	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"	2"	½"	SINGLE COMPARTMENT UNDERMOUNT STAINLESS STEEL, 12" x 16" x 5½" (NOTE 4) - COMPLY WITH ADA.
P604	WATER COOLER	2"	2"	-	¾"	WALL HUNG SINGLE UNIT STAINLESS STEEL WITH INTEGRAL FILTER ASSEMBLY.
P-704	SHOWER ADA	2"	2"	½"	½"	ADA CONFIGURED SHOWER WITH TEMPERATURE AND PRESSURE BALANCE VALVE ASSEMBLY
P-710	EMERGENCY EYE AND FACE WASH	-	-	½"	-	TEPID WATER. SEE SHEET PP101 FOR MIXING VALVE LOCATION.
P-808	WASHER BOX FOR ICE MAKER	2"	-	-	½"	EPOXY COATED FINISH
P-809	DIALYSIS BOX	2"	-	-	½"	STAINLESS STEEL WITH LOCKABLE COVER. BOXES TO BE MOUNTED IN HEADWALL SEE SHEET AE401

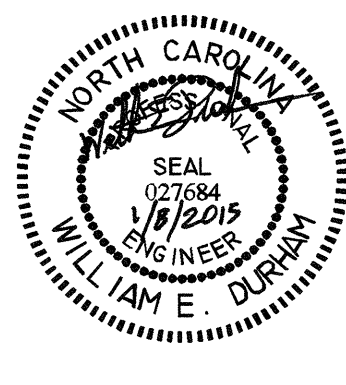
SYMBOL			DESCRIPTION	ABBREVIATIONS
		PIPE TURNING DOWN	ABV	ABOVE
		PIPE TURNING UP	ADA	AMERICANS W/ DISABILITIES ACT
		PIPE CAP	AFF	ABOVE FINISH FLOOR
		TEE TURNING DOWN	AW	ACID WASTE
		TEE TURNING UP	BLW	BELOW
		SHUT-OFF VALVE	BF	BARRIER FREE
		CHECK VALVE	BFF	BELOW FINISH FLOOR
		BALANCING VALVE (PLUG TYPE)	CO	CLEANOUT
	TD	TRENCH DRAIN	CONT	CONTINUATION
	FCQ	FLOOR CLEANOUT	CW	COLD WATER
	CO	END-OF-LINE CLEANOUT	DFU	SANITARY DRAINAGE FIXTURE UNITS
	WCO	WALL CLEANOUT	DN	DOWN
	SA-A	SHOCK ARRESTOR (SUFFIX INDICATES PDI SIZE)	E	EXISTING
		UNION	FCQ	FLOOR CONTROL DEVICE
	HB	HOSE BIB	FCO	FLOOR CLEANOUT
	TP	TRAP PRIMER	FD	FLOOR DRAIN
		DIRECTION OF FLOW	FLR	FLOOR
		POINT OF DEMOLITION	HW	HOSE BIBB
		CONNECT TO EXISTING	HW	HOT WATER
	AP--"X"	MEDICAL GAS ALARM PANEL	HWR	HOT WATER RETURN
	ZV--"X"	ZONE VALVE BOX	LAV	LAVATORY
			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"

GENERAL PLUMBING NOTES

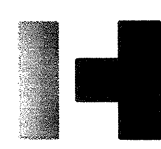
- A. PLUMBING PIPING SHALL BE COORDINATED WITH ALL TRADES TO AVOID CONFLICTS, IN ORDER TO PROVIDE A CODE COMPLIANT INSTALLATION, THIS SHALL INCLUDE ALL PHASES OF WORK AND EQUIPMENT SPACES AND INTERRUPTIONS OF SERVICES WITH COR.
- B. WATER PIPING SHALL BE SLOPED FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINTS.
- C. ACCESS PANELS SHALL BE PROVIDED AT CONCEALED VALVES, SHOCK (WATER HAMMER) ARRESTORS AND OTHER DEVICES ABOVE HARD CEILINGS AND WALLS.
- D. 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.
- E. CLEANOUTS SHALL HAVE TOPS DESIGNED FOR SPECIFIC FLOOR FINISHES SUCH AS CARPET, TILE, ETC., UNLESS NOTED OTHERWISE.
- F. 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.
- G. REFER TO EQUIPMENT DETAILS FOR VENT PIPING AND VALVING NOT INDICATED ON THE PLANS.
- H. DRAWINGS SHALL NOT BE SCALED. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF DOORS, WINDOWS, WALLS, ETC.
- I. ALL VERTICAL SUPPLY, SANITARY WASTE, AND VENT PIPING SHALL BE LOCATED IN WALLS OR PARTITIONS, UNLESS NOTED OTHERWISE.
- J. SUPPLY PIPING SHALL BE LOCATED ABOVE THE CEILING, UNLESS NOTED OTHERWISE.
- K. VENTS WILL BE COLLECTED ABOVE THE CEILING AND EXTENDED UP IN AND CONNECT TO EXISTING VENT THRU ROOF.
- L. PROVIDE FOR ACCESS TO ALL EQUIPMENT REQUIRING CLEANING, ADJUSTMENT OR MAINTENANCE.
- M. PROVIDE NEW BALL VALVE SHUT-OFFS FOR EACH NEW TAP OF EXISTING WATER LINE AND AS INDICATED ON DRAWINGS.
- N. 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.
- O. 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.
- P. PROVIDE INSULATION ON ALL NEW PIPING AND EQUIPMENT.
- Q. 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.
- R. ALL PIPING STACKS AND RISERS SHALL BE LOCATED OUTSIDE OF LOAD BEARING WALLS.
- S. PIPING SHALL NOT BE ROUTED ABOVE I.T. CLOSETS, ELECTRICAL ROOMS, ELECTRICAL EQUIPMENT, OR UNDERNEATH ELECTRICAL ROOMS.
- T. 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.
- U. 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.
- V. SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS, CUT SHEETS AND BROCHURES TO THE COR IN ACCORDANCE TO THE PROJECT SPECIFICATIONS.
- W. 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.
- X. THE PLUMBING CONTRACTOR SHALL SEAL ALL OF HIS PENETRATIONS OF FIRE RATED WALLS USING UL LISTED PENETRATION MATERIALS AS DETAILED ON DRAWINGS. SEE SHEET G006 FOR UL DETAILS.
- Y. 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.
- Z. 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.

[illegible]

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



Architect/Engineer Address



HARRELL
• DESIGN GROUP, PC •

formerly HARRELL, SALTRICK & HOPPER, PC

8016 TOWER POINT DRIVE P 704.814.1320
CHARLOTTE, NC 28227 F 704.321.0833

WWW.HARRELLDG.COM

COPYRIGHT © 2014 HARRELL DESIGN GROUP, PC
HDG PROJECT # 14001

APPROVALS:	
1. CHIEF OF ENGINEERING	

Drawing Title PLUMBING LEGEND, NOTES & SCHEDULES		Project Title RENOVATE 3B CLINIC FOR STEP-DOWN, B1	
FULLY SPRINKLERED	Drawn JB	Building Number 1	AutoCAD File Name
100% FINAL CONSTRUCTION DRAWINGS	Checked JB	Reviewed WED	Const. Contract No

Date	1/8/2015
Project Number	564-14-102
DRAWING No.	P001

