

**GENERAL NOTES:**

- BEFORE COMMENCEMENT OF EACH PHASE, THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE VA REPRESENTATIVE, ACTIVITIES RELATED TO EXISTING EQUIPMENT RELOCATION.
- BEFORE RELOCATION OF EQUIPMENT CONTRACTOR TO RECORD EXISTING CONDITIONS BY PHOTOGRAPHS AND TAG THE EQUIPMENT IN COORDINATION WITH VA REPRESENTATIVE.
- CONTRACTOR TO HIRE A SPECIALIZED VENDOR TO DISCONNECT, RELOCATE AND REINSTALL EXISTING EQUIPMENT. CONTRACTOR TO OBTAIN RE-CERTIFICATION OF EQUIPMENT FROM SPECIALIZED VENDOR.
- SEE EQUIPMENT SCHEDULE SHEETS FOR EXISTING EQUIPMENT NUMBER TAG AND EXISTING ROOM NUMBER FROM WHICH THE EQUIPMENT NEEDS TO BE RELOCATED.
- PROVIDE ALL UTILITIES, MECHANICAL, PLUMBING, ELECTRICAL, DATA CONNECTIONS AS REQUIRED FOR THE EQUIPMENT.
- VERIFY SIZE AND LOCATION OF FINAL EQUIPMENT PRIOR TO INSTALLATION OF CASEWORK & MODULAR LAB FURNITURE.
- VERIFY THE LAB CASEWORK COUNTERTOPS/TABLETOPS FOR LOAD CAPACITY PRIOR TO PLACING THE EQUIPMENT.
- DETERMINE THE EQUIPMENT ANCHORAGE REQUIREMENTS BASED ON FINAL EQUIPMENT SELECTION. EQUIPMENT SHOWN IS THE EXISTING EQUIPMENT AT THE TIME OF DESIGN.
- VERIFY LOCATION, CLEARANCE, MOUNTING AND ANCHORAGE REQUIREMENTS OF ALL EQUIPMENT PRIOR TO FINAL INSTALLATION.
- PROVIDE SEISMIC BRACES FOR EQUIPMENT PER DRAWINGS AND SPECIFICATIONS. SEE D6/AE-503.
- PROVIDE BACKING IN WALLS TO SEISMICALLY ANCHOR THE EQUIPMENT AT TOP, BOTTOM & MIDDLE PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
- WALK-IN REFRIGERATOR IS A DESIGN BUILD ITEM. PROVIDE WALK-IN REFRIGERATOR WITH ALL UTILITIES NECESSARY FOR A FULLY FUNCTIONAL EQUIPMENT INCLUDING POWER, PLUMBING DRAINS, CONDENSERS AND CHILLED WATER LINES. PROVIDE SHOP DRAWINGS INCLUDING ANCHORAGE DETAILS FOR APPROVAL.
- PNEUMATIC TUBE SYSTEM IS A DESIGN BUILD ITEM. PROVIDE SHOP DRAWING INDICATING STRUCTURAL SUPPORT FOR BLOWER, TUBE SYSTEM AND LOCATE IN THE INTERSTITIAL SPACE. VERIFY ANY CONFLICTS WITH EXISTING MECHANICAL UNITS/DUCT SYSTEM. PIPING PRIOR TO COMMENCING THE WORK. NOTE: ASBESTOS IS PRESENT IN INTERSTITIAL SPACE FIRE PROOFING ON STRUCTURAL STEEL. ABATEMENT IS REQUIRED WITHIN THE PROJECT AREA AND ELSEWHERE TO ANCHOR SUPPORT FOR PNEUMATIC TUBE SYSTEM.
- PROVIDE PIPED GAS TO INCUBATORS FROM TANK STORAGE ROOM 1232E. SEE PLUMBING DRAWINGS.
- VERIFY ALL EXISTING EQUIPMENT AND CURRENT LOCATION PRIOR TO BID AS THEY MAY HAVE BEEN RELOCATED.
- MATERIALS, PRODUCTS, AND INSTALLATION SHALL BE SIMILAR TO EXISTING CONDITIONS AND SHALL BE IN COMPLIANCE WITH CURRENT CODE AND VA REQUIREMENTS, UNLESS OTHERWISE SPECIFICALLY IDENTIFIED HEREIN.
- NOTIFY OWNER'S REPRESENTATIVE AT LEAST TWO WORKING DAYS PRIOR TO INTERRUPTION OF BUILDING UTILITIES, SERVICES, OR ACCESS. CONTRACTOR SHALL OBTAIN PRIOR WRITTEN APPROVAL FROM THE BUILDING OWNER'S REPRESENTATIVE.
- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF EQUIPMENT AND COMPONENTS. CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND COORDINATE WITH THE WORK OF ALL TRADES/DIVISIONS PRIOR TO INSTALLATION.
- DAMAGE TO EXISTING EQUIPMENT, OR APPARATUS DURING THE EXECUTION OF THIS CONTRACT SHALL BE REPAIRED/REPLACED TO MATCH ORIGINAL CONDITION AT NO ADDITIONAL COST TO VA.
- ALL MECHANICAL, ELECTRICAL, PLUMBING RECONSTRUCTION WORK SHALL CONFORM TO FEDERAL, LOCAL STATE CODES AND VA STANDARDS.
- REMOVE THE LABORATORY EQUIPMENT, ALL PIPING, EXHAUST AND ELECTRICAL CONNECTIONS. PROVIDE NEW PIPING, EXHAUST AND ELECTRICAL CONNECTIONS FOR REINSTALLATION.
- FLOOR DRAINS, FLOOR SINKS, AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.
- PROVIDE ALL EXPOSED PIPING, VALVES, AND FITTINGS WITHIN LAB AREAS AND SHALL BE POLISHED CHROME PLATED. "EXPOSED" SHALL MEAN IN UNOBSTRUCTED VIEW.
- DURING REINSTALLATION OF LABORATORY EQUIPMENT REFER TO LABORATORY EQUIPMENT MANUFACTURERS LITERATURE FOR PLUMBING CONNECTIONS, ADAPTERS, DEVICES, ACCESSORIES, VALVES, EXHAUST, VACUUM ETC. THAT ARE REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM, TO BE PROVIDED BY THE CONTRACTOR.
- DURING REINSTALLATION CONTRACTOR SHALL PROVIDE ALL NECESSARY FINAL CONNECTIONS TO LABORATORY EQUIPMENT AND FIXTURES.

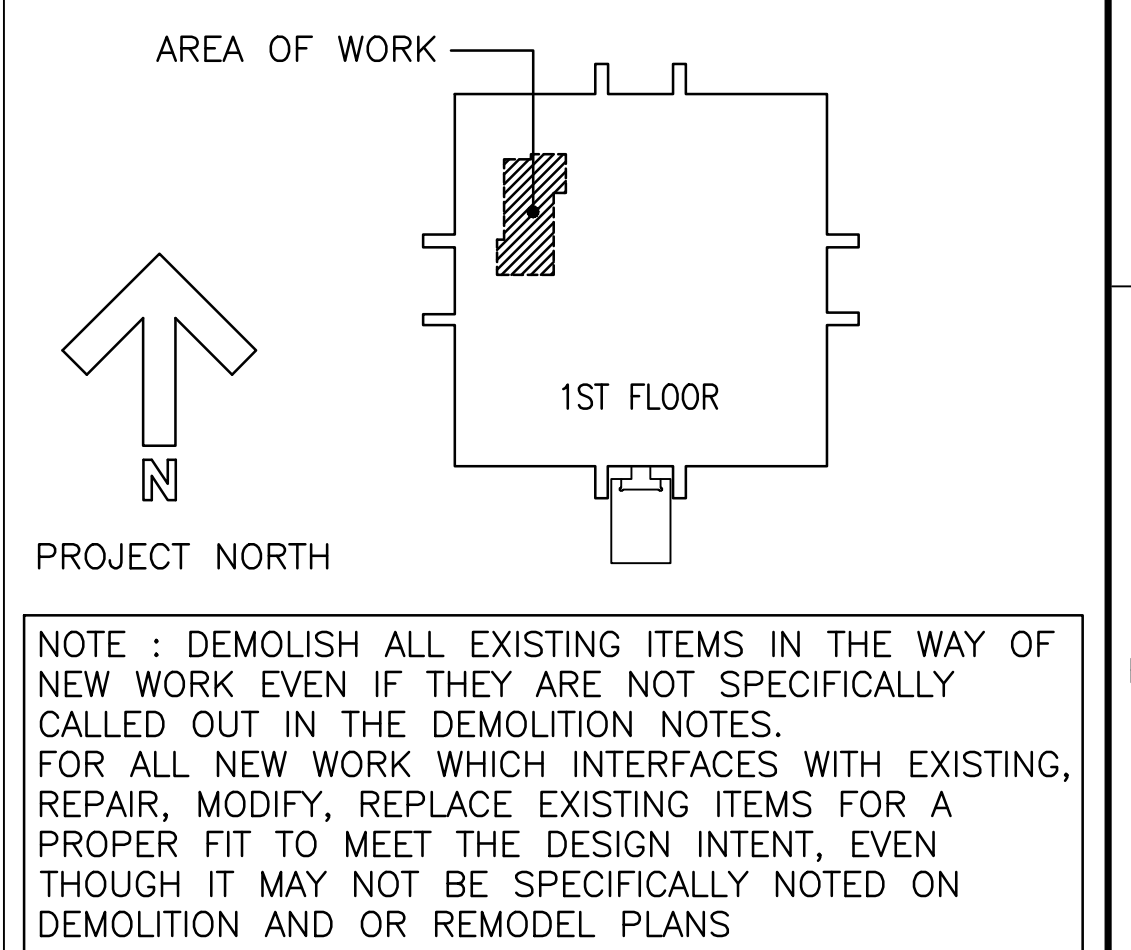
**EQUIPMENT NOTES:**

- SYSTEM FURNITURE PROVIDED AND INSTALLED BY VA (HIRED CONTRACTOR). CONTRACTOR PROVIDE ALL WIRING FOR POWER/LIGHTS/DATA TO VA PROVIDED FURNITURE. COORDINATE WITH VA FOR DROP LOCATION AND REQUIREMENTS.
- FF/E PROVIDED BY VA.
- EQUIPMENT PROVIDED BY VA. CONTRACTOR PROVIDE BACKING AS REQUIRED FOR INSTALLATION.

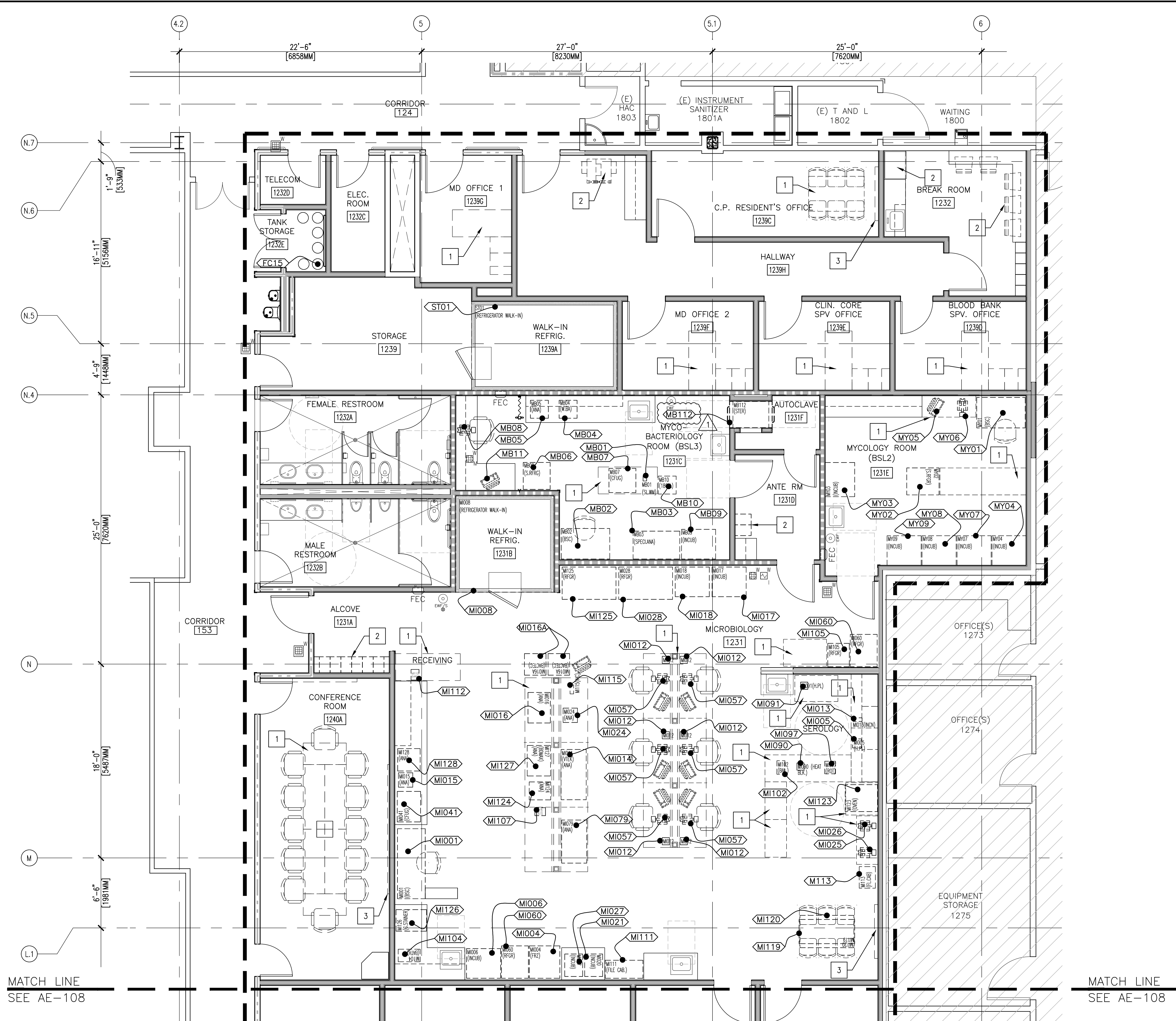
**LEGEND**

- XXXXX EQUIPMENT TAG, REFER FOR SHEET AE-109 & AE-110 FOR EQUIPMENT SCHEDULE.
- (E) 1 HOUR FIRE RATED WALL
- (E) 2 HOUR FIRE RATED WALL
- (E) NON-RATED WALL
- (N) NON-RATED WALL
- (N) 2 HOUR FIRE RATED WALL
- (N) NON-RATED LOW HEIGHT WALL
- (N) REINFORCED SECURITY WALL
- NIC AREA
- FURNITURE, FIXTURES & EQUIPMENT (FF&E) BY VA

**KEY PLAN**



**FINAL CONSTRUCTION DOCUMENTS - FULLY SPRINKLERED**



**(F1) PARTIAL EQUIPMENT PLAN - FIRST FLOOR**  
 SCALE: 1/4" = 1'-0"

100% SCHEMATIC SUBMISSION	11/06/16
95% CONSTRUCTION DOCUMENTS	1/27/16
100% CONSTRUCTION DOCUMENTS	2/01/16
FINAL CONSTRUCTION DOCUMENTS	4/01/16
AMENDMENT #A00001	5/03/16
AMENDMENT #A00002	6/24/16
Revisions	Date

**CONSULTANTS:**

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Drawing Title	Project Title
<b>PARTIAL EQUIPMENT PLAN - FIRST FLOOR</b>	<b>RENOVATE ANATOMICAL PATHOLOGY (CLINICAL LAB PHASE III)</b>
Approved	Location
CHIEF CONSTRUCTION MANAGEMENT/DESIGN SECTION	3350 LA JOLLA VILLAGE DRIVE SAN DIEGO, CA 92161
PROJECT ENGINEER	Date
	5/03/16
	Checked
	S.D.
	Drawn
	M.M.
	Dwg. 18 of 123

Project Number	664-14-427
Building Number	1
Drawing Number	AE-107

**Office of Construction and Facilities Management**

Department of Veterans Affairs

one eighth inch = one foot  
 one quarter inch = one foot  
 three eighths inch = one foot  
 one half inch = one foot  
 three quarters inch = one foot  
 one inch = one foot  
 one and one half inches = one foot  
 two inches = one foot  
 three inches = one foot

DEPARTMENT NAME	EXISTING LOCATION	NEW ROOM #	ASE # EQUIP ID #	DESCRIPTION	MANUFACTURER	MODEL	NEW/EXISTING	FURNISH/INSTALL	MOUNTING	WEIGHT	WIDTH	DEPTH	HEIGHT	VOLTS	AMP	WATER	STEAM	DRAIN	VENT	GAS	VAC	DATA	NEMA	CLEARANCE
MICROBIOLOGY		1231	MI001	BIOLOGICAL SAFETY CAB. CLASS II/B2, ON STAND 30" AFF 6 FT	BAKER	SG603A-TX	E	0/C	F	811	78	30.75	101	115	12.4	N	N	N	Y	N	N		5-20 TYPE B	
MICROBIOLOGY		1231	MI004	FREEZER, ULTRA LOW, UPRIGHT, -85 DEG	THERMO EC		E	0/C	F	690	33.5	35.25	77.5	115	16	N	N	N	N	N	N			
MICROBIOLOGY		1231	MI005	HOT PLATE			E	0/O	C															
MICROBIOLOGY		1231	MI006	INCUBATOR, CO2	THERMO FORMA	3950, GLASS DOOR	E	0/C	F	500	38	33	80	115	10	N	N	N	N	CO2	N			
MICROBIOLOGY		1231	MI009	FUME HOOD, 3', NON VENTED	THERMO SHANDON	HYPERCLEAN 36, 9990636	N	0/O	F	50	36	13	25	120		N	N	N	Y	N	N		5-15 TYPE B	
MICROBIOLOGY	1231		MI010	SLIDE WARMER	WESCOR	SLIDEPRO 15	E	0/O	C	4	5.25	4.25	8	120	N/A	N	N	N	N	N	N			
MICROBIOLOGY		1231	MI012	LIGHT W/ MAGNIFIER, ONE FOR EACH TECH	LUXO	MFM100S, AT TECH STATIONS	E	0/O	W		8	8	51	120		N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI013	INCINERATOR		INSIDE BSC	E	0/C	C		4	10	10			N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI014	ANALYZER, LAB, MICROBIOLOGY	VITEK	VITEK 2 XL	E	0/C	C	320	55.25	27.75	26.5	120	4	N	N	N	N	N	N	Y	5-15 TYPE B	512 BTU
MICROBIOLOGY	1231	1231	MI015	ANALYZER, PROCESSING	VITEK	PROCESSING STATION	E	0/C	C		16	16	10											
MICROBIOLOGY	1231	1231	MI128	ANALYZER, PROCESSING, MOLECULAR ID	VERIGENE	PROCESSING STATION	E	0/C	C		25	25	25	120										
MICROBIOLOGY	1231	1231	MI124	ANALYZER, PROCESSING, FIT TEST	POLYMEDCO OC-80	PROCESSING STATION	E	0/C	C		20	24	28	120										
MICROBIOLOGY	1231	1231	MI079	ANALYZER, LAB, DNA AMPLIFICATION	CEPHEID	PROCESSING STATION	E	0/C	C		48	28	28	120										
MICROBIOLOGY	1231	1231	MI016	ANALYZER, LAB, BLOOD CULTURE	BD	BACTEC FX	E	0/C	F	497.1	25	34	37.5	115	N/A	N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI122A	BLOOD CX ANALYZER DATA	BD	BACTEC PC, MONITOR	E	0/C	F		24	24	36	120	N/A	N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI126	PREVICOLOR GRAM STAINER	BIOMERIEUX		E	0/O	C		24	34	16	120										
MICROBIOLOGY	1231	1231	MI017	INCUBATOR, 37 DEG	THERMOFORMA	3960, GLASS DOOR	E	0/C	F	500	38	33	80	115										
MICROBIOLOGY	1231	1231	MI018	INCUBATOR, 37 DEG, CO2	THERMOFORMA	3950, GLASS DOOR	E	0/C	F	500	38	33	80	115	10	N	N	Y	N	CO2	N			
MICROBIOLOGY	1231	1231	MI019	INCUBATOR, 37 DEG, CO2	THERMOFORMA	3950, GLASS DOOR	E	0/C	F	500	38	33	80	115	10	N	N	Y	N	CO2	N			
MICROBIOLOGY	1231	1231	MI020, MI021, MI027	INCUBATOR, LAB, GENERAL, COUNTERTOP	THERMO SCIENTIFIC - LAB-LINE	IMPERIAL III	E	0/C	C	100	20	25	34.5	120	3.3	N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI023	FREEZER, -85 DEG, 1 DOOR			E	0/C	F															
MICROBIOLOGY	1231	1231	MI024	ANAEROBE SYSTEM	ANOXOMAT	MARK	N	0/C	C					N/A		N	N	N	N	CO2, N2	N			
MICROBIOLOGY	1231	1231	MI025	MICROSCOPE, BINOCULAR	NIKON INC INSTRUMENT GROUP	ECLIPSE 55I	E	0/O	C	N/A				*	N/A	N/A	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI026	MICROSCOPE, BINOCULAR	NIKON INC INSTRUMENT GROUP	ECLIPSE 55I	E	0/O	C	N/A				*	N/A	N/A	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI125	REFRIGERATOR, LABORATORY, 2 DOOR	HERMO ELECTRON - JEWETT REFRIGERATOR		E	0/C	F															
MICROBIOLOGY	1231	1231	MI028	REFRIGERATOR, LABORATORY, 2 DOOR	THERMO ELECTRON - JEWETT REFRIGERATOR	LR55	E	0/C	F	900	59	36	83	120	12	N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI041	CENTRIFUGE, COUNTER, REFRIGERATED	THERMO FISHER	CR4I	E	0/C	C	233	33.5	26	16.5	120	N/A	N	N	N	N	N	N		5-15 TYPE B	4435 BTU
MICROBIOLOGY	1231	1231	MI057	MICROSCOPE, BINOCULAR- ONE FOR EACH TECH	NIKON INC INSTRUMENT GROUP	ECLIPSE 55I	E	0/O	C															
MICROBIOLOGY	1231	1231	MI060	REFRIGERATOR, LABORATORY, 1 DOOR	THERMO ELECTRON - JEWETT REFRIGERATOR	LR25B	E	0/C	F	535	29	36	83	120	8	N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI102	BALANCE			E	0/O	C		9	15	18			N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI103	HOT PLATE / STIRRER			E	0/O	C		10	10	5											
MICROBIOLOGY	1235-1		MI104	BATH, WATER, CIRCULATING	THERMO FISHER SCIENTIFIC	PRECISION 260	E	0/O	C	40	24.5	14	9.5	120	8.8	N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI105	REFRIGERATOR, U.C., 5.6 CU FT	BARNSTEAD	3750	E	0/C	F	120	23.75	25.5	33.5	120	1.3	N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI107	PRINTER, LABEL			E	0/O	C															
MICROBIOLOGY	1231	1231	MI111	FILE CABINET	MERIDIEN	TU	E	0/C	F		42	20	75			N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI112	TIME, LABELER, SAMPLES	ACROPRINT	175	E	0/O	C															
MICROBIOLOGY	1231	1231	MI113	FLAMMABLE CABINET	JUSTRITE		E	0/C	F		23.5	18	35.5			N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI115	INCINERATOR	OXFORD (COLE PALMER)	BACTI-CINERATOR IV	E	0/C	C		4	10	10	120		N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI119	TABLE, WEIGHTED FOR 6 HEAD MICROSCOPE			E	0/C	F		62	27	29			N	N	N	N	N	N			
MICROBIOLOGY	1231	1231	MI120	6-HEADED MICROSCOPE	NIKON	ECLIPSE CI	E	0/O	C	40	60	36	30	120										
MICROBIOLOGY	1231	1231	MI122	BLOOD CX ANALYZER DATA	BD	BACTEC PC, MONITOR	E	0/C	F		24	24	36	120	N/A	N	N	N	N	N	N	Y		
MICROBIOLOGY	1231	1231	MI008	REFRIGERATOR, WALK-IN	NORLAKE	ENVIROLINE 4.0	N	C/C	F															
MICROBIOLOGY	1231	1231	MI123	OVEN, CONNECTION, GRAVITY	PRECISION SCIENTIFIC	THELCO 160	E	0/C	C							N	N	N	N	N	N	Y		
MYCOBACTERIOLOGY	1234	1231C	MB02	BIOLOGICAL SAFETY CAB. CLASS II/B2, ON STAND 30" AFF 6 FT	BAKER	M2000SP	E	0/C	F		56.3	31.3	80	100	N/A									
MYCOBACTERIOLOGY	1234	1231C	MB03	SPECIMEN ANALYZER	FISHER	VERSATREK	E	0/C	F	1212	55	36	77	115	N/A	N	N	N	N	N	N			
MYCOBACTERIOLOGY	1234	1231C	MB04	WATER BATH	FISHER SCIENTIFIC	ISOTEMP 145D	E	0/O	C															
MYCOBACTERIOLOGY	1234	1231C	MB04	ANALYZER, DNA	GENPROBE	GENPROBE	E	0/C	C	20	20	28	12	120		N	N	N	N	N	N			
MYCOBACTERIOLOGY	1234	1231C	MB06	REFRIGERATOR, LABORATORY, 1 DOOR	HELMER	ILR 120	E	0/C	F	460	29.5	40	80	115		N	N	N	N	N	N	N	5-15 TYPE B	1571 BTU/HR
MYCOBACTERIOLOGY	1234	1231C	MB07	CENTRIFUGE, REFRIGERATED	THERMOSCIENTIFIC	HERAEUS MULTIFUGE X3R	E	0/C	C		19.29	27	16	120	N/A	N	N	N	N	N	N			
MYCOBACTERIOLOGY	1234	1231C	MB08	MICROSCOPE, FLUORESCENT	NIKON		E	0/O	C	25	16	24	28	115										
MYCOBACTERIOLOGY	1234	1231C	MB09	INCUBATOR, 37 DEG, CO2	THERMOFORMA	3950, GLASS DOOR	E	0/C	F	500	38	33	80	120		N	N	N	N	N	N			
MYCOBACTERIOLOGY	1234	1231C	MB10	WASTE CAN, BIOHAZARDOUS, 18 GAL., STEP-ON	RUBBERMAID	6145	E	0/O	F							N	N	N	N	N	N			
MYCOBACTERIOLOGY	1234	1231C	MB11	COMPUTER	VISTA		E	0/O	C															
MYCOBACTERIOLOGY	1234	1231F	MB112	AUTOCLAVE	PRIMUS	MODEL - A	N	0/C	F		20	20	38											
MYCOLOGY	1231E	MY01	MY01	CABINET, BIO SAFETY, CLASS II, TYPE B2, 4', ON STORAGE CABINET	BAKER	STERILGARD III, SG403A-TX	E	0/C	F	596	53.75	30.75	101.75	115	9	N	N	N	Y	N	Y	N	5-15 TYPE B	1571 BTU/HR
MYCOLOGY	1232	1231E	MY02	REFRIGERATOR, LABORATORY, 1 DOOR	THERMO ELECTRON - JEWETT REFRIGERATOR	LR25	E	0/C	F	535	29	36	83	120	8	N	N	N	N	N	N			
MYCOLOGY	1231E	MY03	MY03	INCUBATOR, AMBIENT	THERMO FORMA	3950, GLASS DOOR	E	0/C	F	500	38	33	80	115		N	N	N	N	N	N		NEMA 5-15 TYPE B	
MYCOLOGY	1231E	MY04	MY04	INCUBATOR	THERMO FORMA		E	0/C	F															
MYCOLOGY	1232	1231E	MY05	COMPUTER	VISTA		E	0/O	C							N	N	N	N	N	N	Y		
MYCOLOGY	1232	1231E	MY06	MICROSCOPE, BINOCULAR	NIKON INC INSTRUMENT GROUP	ECLIPSE 55I	E	0/O	C	N/A														
SEROLOGY	1235	MI090	MI090	HEAT BLOCK			E	0/O	C															
MYCOLOGY	1231E	MY07	MY07	INCUBATOR			N	0/C	F															

**PLUMBING EQUIPMENT SCHEDULE**

ITEM	DESCRIPTION	MANUFACTURER MODEL# / TYPE	QUANT.	LOCATION	CAPACITY	RECOVERY Gallon/Hr. @60F RISE	ELECTRICAL					REMARKS	DIMENSION	OPERATING WEIGHT	
							HP	KW	V	Ø	HZ				
TMV 1	THERMOSTATIC MIXING VALVE	"LEONARD VALVE" MODEL: TM-800-LF-STSTL-EXP	4	SEE PLANS	30 PSI @ 38 GPM	-	-	-	-	-	-	-	STAINLESS STEEL CABINET ASSEMBLY WITH LOCKING TEMPERATURE REGULATOR, INTEGRAL WALL SUPPORT. ROUGH BRONZE FINISH. LEAD FREE. 1" CW & 1" HW INLETS AND 1-1/4" TEPID WATER OUTLET.	CABINET: 16"(L)x16"(H)x 8"(D)	-
TMV 2	THERMOSTATIC MIXING VALVE	"LEONARD VALVE" MODEL: TM-300-LF-STSTL-EXP	6	SEE PLANS	30 PSI @ 6.5 GPM	-	-	-	-	-	-	-	STAINLESS STEEL CABINET ASSEMBLY WITH LOCKING TEMPERATURE REGULATOR, INTEGRAL WALL SUPPORT. ROUGH BRONZE FINISH. LEAD FREE. 1/2" CW & 1/2" HW INLETS AND 1/2" TEPID WATER OUTLET.	CABINET: 10"(L)x10"(H)x 5"(D)	-
GD 1	GARBAGE DISPOSER	"inSinkErator" MODEL: LIGHT DUTY LC-50-11	1	ROOM# 1232	-	-	1/2	5.8 AMPS	120	-	60	-	COMMERCIAL LIGHT DUTY STAINLESS STEEL GRIND CHAMBER. CAST NICKEL CHROME CUTTING ELEMENT. 1725 RPM.	16"(H)x 14-1/4"(H) x DIA 8"	35 (lbs)
BFP 1	BACKFLOW PREVENTER	"ZURN-WILKINS" MODEL: 975XL 3/4"	1	SEE PLANS	-	-	-	-	-	-	-	-	PROTECT POTABLE WATER SUPPLY FOR LAB EQUIPMENT.	-	-
BFP 2	BACKFLOW PREVENTER	"ZURN-WILKINS" MODEL: 975XL 1/2"	2	SEE PLANS	-	-	-	-	-	-	-	-	PROTECT POTABLE WATER SUPPLY FOR LAB EQUIPMENT.	-	-
WCS 1	WASTE COLLECTION SYSTEM	"ZURN" MODEL: Z9A-PHIX	SEE PLANS	SEE PLANS	-	-	-	-	-	-	-	-	UNDER THE LAB SINK, POINT OF USE, ACIDE NEUTRALIZATION CARTRIDGE CONSTRUCTED WITH DURABLE GLASS-FILLED AND POLYPROPYLENE BODY, REMOVABLE UPPER NEUTRALIZATION CHAMBER.	Ø6-1/4"x 14-1/4"(H)	-
TMV 3	THERMOSTATIC MIXING VALVE	"LEONARD VALVE" MODEL: 370-LF	3	SEE PLANS	0.5 GPM MINIMUM	-	-	-	-	-	-	-	EXPOSED POINT OF USE, LOCKING TEMPERATURE ADJUSTMENT CAP. INTEGRAL CHECK VALVES ON HOT AND COLD INLET. LEAD FREE. 3/4" INLET AND 3/4" OUTLET.	-	-
TMV 4	THERMOSTATIC MIXING VALVE	"LEONARD VALVE" MODEL: LV-981A-LF	1	SEE PLANS	2.5 GPM MINIMUM	-	-	-	-	-	-	-	EXPOSED AND LOCKING TEMPERATURE REGULATING HANDLE. INTEGRAL COMBINATION CHECK STOPS WITH STRAINER. LEAD FREE. 3/4" INLET AND 3/4" OUTLET.	-	-
CO2 1	CARBON DIOXIDE MANIFOLD SYSTEM (CO2)	1. MANIFOLD "BEACONMEDAES" MODEL: MNE-HH3X3-CO2-AS 2. MASTER ALARM "BEACONMEDAES" MODEL: 6-129030-11	1	SEE PLANS	-	-	-	-	-	-	-	-	NFPA AUTOMATIC SWITCH-OVER HIGH PRESSURE LIFELINE MANIFOLD. BUILT-IN LINE REGULATOR AND BANK REGULATOR WITH OPERATING PRESSURE AT 55 PSI. NEMA4 POWER SUPPLY ENCLOSURE.	-	-
LN2 1	LIQUID NITROGEN MANIFOLD SYSTEM (Luq.N2)	1. MANIFOLD "BEACONMEDAES" MODEL: MNE-LL2X2-N2-CS 2. HIGH PRESSURE RESERVE ASSEMBLY "BEACONMEDAES" MODEL: RHE-6-N2-S 2. MASTER ALARM "BEACONMEDAES" MODEL: 6-129032-14	1	SEE PLANS	-	-	-	-	-	-	-	-	NFPA AUTOMATIC CHANGEOVER LIQUID GAS LIFELINE MANIFOLD WITH AUTOMATIC RESET. BUILT-IN LINE REGULATOR AND BANK REGULATOR WITH OPERATING PRESSURE AT 180 PSI. NEMA4 POWER SUPPLY ENCLOSURE.	-	-

**PIPE MATERIAL TABLE**

SERVICE	PIPE	FITTINGS	REMARKS
DOMESTIC WATER SYSTEM	SEAMLESS COPPER TUBING, TYPE L ABOVE GROUND, DRAWN TEMPER, ASTM B88, TYPE K BELOW GROUND	ANSI B16.18, CAST COPPER ALLOY SOLDER JOINT PRESSURE FITTINGS.	JOINTS: ASTM B32, SOLDER GRADE 95TA
SOIL, WASTE AND VENT	STANDARD WEIGHT CAST IRON NO-HUB TYPE SOIL PIPE, TYLER WIDE BODY OR EQUAL	B16.24, ANSI 16.18 STANDARD WEIGHT CAST IRON NO-HUB TYPE SOIL FITTINGS WITH NEOPRENE GASKET AND STAINLESS STEEL BANDS AND SHIELD, NO HUB COUPLINGS	NSF LISTED
MEDICAL GASES	SEAMLESS HARD DRAWN COPPER TUBING, TYPE L ABOVE GROUND, ASTM B819	WROUGHT COPPER, BRAZED.	BRAZING FILLER METALS: AWS A5.8/A5.8M, BCuP SERIES, COPPER-PHOSPHORUS ALLOYS.
CONDENSATE DRAIN	SEAMLESS COPPER TUBING, TYPE L HARD DRAWN TEMPER, ASTM B88	WROUGHT COPPER, SOLDER JOINT, ANSI B16.22 OR CAST BRONZE ANSI B16, 23, ANSI 16, 18	JOINTS: 95 - 5 (TIN AND ANTIMONY) SOLDER.

**PIPE SIZING CHART**

REFERENCE ONLY		
SIZE	FLUSH TANK	FLUSH VALVE
1/2"	0	-
3/4"	5	-
1"	13	-
1 1/4"	25	-
1 1/2"	45	9
2"	115	42
2 1/2"	236	116
3"	455	329

COLD WATER PIPE LIMITED TO EIGHT (8) FEET PER SECOND.  
HOT WATER PIPE LIMITED TO FIVE (5) FEET PER SECOND.

**PLUMBING FIXTURE SCHEDULE**

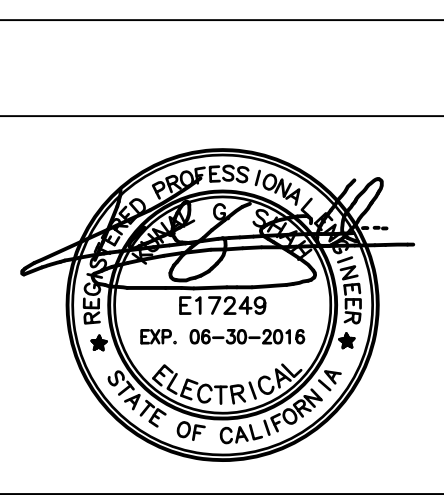
SYMBOL	DESCRIPTION	ROUGH-IN CONNECTIONS					REMARKS
		WASTE	TRAP	VENT	COLD WATER	HOT WATER	
WC 1	WATER CLOSET	4"	INT.	2"	1-1/2"	-	"AMERICAN STANDARD" AFWALL MILLENIUM FloWise, MODEL 3351.528. WALL-MOUNTED ENLARGED BOWL, TOP SPUD, VITREOUS CHINA. FAUCETS: "SLOAN" SLOAN, MODEL: SLOAN111-1.28 ESS. HARD WIRE AND SENSOR OPERATED FLUSH VALVE WITH FULLY MECHANICAL MANUAL OVERRIDE BUTTON. TOP SPUD. ADJUSTABLE TAILPIECE. 1.28 GPH. SEAT: "AMERICAN STANDARD" MODEL: 5901.100. HEAVY DUTY.
WC 2	WATER CLOSET (ADA)	4"	INT.	2"	1-1/2"	-	"AMERICAN STANDARD" AFWALL MILLENIUM FloWise, MODEL 3351.528. WALL-MOUNTED ENLARGED BOWL, TOP SPUD, VITREOUS CHINA. FAUCETS: "SLOAN" SLOAN, MODEL: SLOAN111-1.28 ESS. HARD WIRE AND SENSOR OPERATED FLUSH VALVE WITH FULLY MECHANICAL MANUAL OVERRIDE BUTTON. TOP SPUD. ADJUSTABLE TAILPIECE. 1.28 GPH. SEAT: "AMERICAN STANDARD" MODEL: 5901.100. OPEN FRONT. HEAVY DUTY. ADA COMPLIANT.
UR 1	URINAL	2"	INT.	1-1/2"	3/4"	-	"AMERICAN STANDARD" WASHBROOK FloWise, MODEL 6590.525. WALL MOUNTED, EXPOSED TOP STUD FLUSH VALVE. VITREOUS CHINA. FAUCETS: "SLOAN" ROYAL OPTIMA, MODEL: 186-0.125 ES-S. HARD WIRE AND SENSOR OPERATED FLUSH VALVE WITH FULLY MECHANICAL MANUAL OVERRIDE BUTTON. TOP SPUD. 0.125 GPH.
UR 2	URINAL (ADA)	2"	INT.	1-1/2"	3/4"	-	"AMERICAN STANDARD" WASHBROOK FloWise, MODEL 6590.503. WALL MOUNTED, EXPOSED TOP STUD MANUAL FLUSH. VITREOUS CHINA. FAUCETS: "SLOAN" ROYAL OPTIMA, MODEL: 186-0.125 ES-S. HARD WIRE AND SENSOR OPERATED FLUSH VALVE WITH FULLY MECHANICAL MANUAL OVERRIDE BUTTON. TOP SPUD. 0.125 GPH. ADA COMPLIANT.
L 1	LAVATORY	2"	2"	1-1/2"	3/4"	-	"AMERICAN STANDARD" OVALYN, MODEL 0497.221. OVAL UNDERCOUNTER, FRONT OVERFLOW, SINGLE CENTER. VITREOUS CHINA, WHITE. FAUCETS: "CHICAGO FAUCETS", MODEL: EQ-A11A-53ABBN. HARD WIRE AND SENSOR OPERATED, CONCEALED THERMOSTATIC MIXING VALVE. STAINLESS STEEL BRAIDED HOSE. 0.5 GPM FLOW RATE.
L 2	LAVATORY (ADA)	2"	2"	1-1/2"	3/4"	-	"AMERICAN STANDARD" OVALYN, MODEL 0497.221. OVAL UNDERCOUNTER, FRONT OVERFLOW, SINGLE CENTER. VITREOUS CHINA, WHITE. FAUCETS: "CHICAGO FAUCETS", MODEL: EQ-A11A-53ABBN. HARD WIRE AND SENSOR OPERATED, CONCEALED THERMOSTATIC MIXING VALVE. STAINLESS STEEL BRAIDED HOSE. 0.5 GPM FLOW RATE. ADA COMPLIANT.
L 3	LAVATORY (ADA)	2"	2"	1-1/2"	3/4"	-	"AMERICAN STANDARD" LUCERNE, MODEL 0356.042. WALL HUNG, CONCEALED ARMS SUPPORT. VITREOUS CHINA, SINGLE CENTER. WHITE. FAUCETS: "CHICAGO FAUCETS", MODEL: EQ-A11A-53ABBN. HARD WIRE AND SENSOR OPERATED, CONCEALED THERMOSTATIC MIXING VALVE. STAINLESS STEEL BRAIDED HOSE. 0.5 GPM FLOW RATE. ADA COMPLIANT.
KS 1	KITCHEN SINK	2"	2"	1-1/2"	3/4"	-	"ELKAY" LUSTERTONE, MODEL: ELUHAD191655, UNDERMOUNT SINGLE COMPARTMENT. 21-1/2"x18-1/2"x5-3/8" DEEP, STAINLESS STEEL, 18 GAUGE. LUSTROUS HIGHLIGHTED STAIN FINISH. CENTER REAR DRAIN LOCATION. GARBAGE DISPOSAL IS REQUIRED, SEE EQUIPMENT SCHEDULE "GD/1". FAUCET: "AMERICAN STANDARD" LILLIAN, MODEL#: 4144SSF, SINGLE HANDLE PULL-DOWN FAUCET WITH SOAP DISPENSER. STAINLESS STEEL FINISH. 1.8 GPM.
HB 1	HOSE BIBB	-	-	-	3/4"	-	"ACORN" MODEL# 8104. RECESSED TYPE WALL BOX, ONE PIECE CAST CONSTRUCTION PLAIN FINISH, COMPLETE WITH FRAME AND DOOR, VACUUM BREAKER, REMOVABLE LOOSE TEE KEY WHEEL HANDLE AND SCREWDRIWER OPERATED STOP.
WHA 1	WATER HAMMER ARRESTOR	-	-	-	-	-	"PRECISION PLUMBING PRODUCTS", MODEL # SC-500-A-SC-2000F, 3/4" NPT BRASS, BARREL FABRICATED OF TYPE "K" HARD DRAWN COPPER, NORMAL OPERATING PRESSURE 0 TO 200 P.S.I.G. AND MAXIMUM SPIKE PRESSURE 400 P.S.I.G.
FD 1	FLOOR DRAIN	2"	2"	1-1/2"	1/2" TP	-	"J.R. SMITH", MODEL: 2005Y, SQUARE TOP GRATE POLISHED BRONZE FINISH WITH FLASHING COLLAR AND ADJUSTABLE STRAINER. *PROVIDE 1/2" TRAP PRIMER CONNECTION.
FS 1	FLOOR SINK	2"	2"	1-1/2"	1/2" TP	-	"J.R. SMITH" MODEL NO. 3440Y-12, 10" DEEP WITH ACID RESISTANT COATED HALF GRATE. PROVIDE 1/2" TRAP PRIMER CONNECTION.
TP 1	TRAP PRIMER	-	-	-	1/2"	-	"PRECISION PLUMBING PRODUCT" MODEL#: P2-500 FOR SINGLE TRAP PRIMING. INSTALL PER MANUFACTURERS REQUIREMENTS. LOCATE BEHIND ACCESS PANEL.
EDF 1	ELECTRICAL DRINKING FOUNTAIN	2"	1 1/2"	1 1/2"	3/4"	-	"HALSEY TAYLOR" HAC Green Cooler, MODEL: HTHB-HACGBLSS-WF. FILTERED HI-LO TYPE WITH Hydroboost BOTTLE FILLER AND FILTER. PUSHBUTTON ACTUATION MECHANISM, STAINLESS STEEL FINISH. ADA COMPLIANT.
ESEW 1	EMERGENCY SHOWER AND EYE WASH	-	-	-	-	1-1/4"	"HAWS" MODEL 8356WCC, BARRIER FREE, RECESSED WALL MOUNTED COMBINATION SHOWER/EYE WASH, 18 GAGE STAINLESS STEEL. EXPOSED SHOWER HEAD WITH ESCUTCHEON AND HANGER BRACKET. PULL-DOWN EYE/FACE WASH WITH DRAIN PAN AND FRONT-ACCESS MAINTENANCE PANEL. WHEEL CHAIR ACCESSIBLE. 1-1/4" TW SUPPLY, 1" TW SHOWER INLET AND 1" TW EYE WASH INLET.
EEW 1	EMERGENCY EYE WASH	-	-	-	-	1/2"	"HAWS" MODEL 7612, AXION MSR EYE/FACE WASH, STAINLESS STEEL BALL AND STEM, MOUNTED ON TOP-RIGHT SIDE OF SINK. CHROME-PLATED BRASS STAY-OPN BALL VALVE, SWING-AWAY FEATURE. 1/2" TW SUPPLY.
AG 1	AIR GAP	2"	2"	2"	1/2" TP	-	"J.R. SMITH" MODEL 3955, NO HUB OUTLET FIXED AIR GAP, 2" OUTLET IN WALL WITH TRIP PRIMER CONNECTION AND 2" AIR GAP AND BEHIND ACCESS PANEL.
LS 1	LAB SINK	2"	2"	1-1/2"	3/4"	3/4"	"DURCON" EPOXY RESIN DROPLN SINK, MODEL A-25. TOP MOUNTED, RESISTANCE HEAT AND CHEMICALS. 5" DEPTH. ADA COMPLIANT. FAUCETS: "WaterSaver" MODEL: VR611VB, VANDAL-RESISTANT SINGLE FAUCET, DECK MOUNTED, 6" RIGID VACUUM BREAKER GOOSENECK. **FOOT-OPERATED FAUCETS: "ZURN" MODEL: Z85500-XL-VC-WM. DOUBLE FOOT PEDAL VALVE, WALL MOUNTED. SELF-CLOSING MIXING VALVE. POLISHED CHROME-PLATED BRASS. **DE WATER FAUCET: SEE DEF-1 AT SHEET PE-002.
DEF 1	DE WATER FAUCET	-	-	-	1/2" DE	-	FAUCETS: "ORION" MODEL: Recirculating Faucet PVDF. ZERO DEAD LEG WITHOUT CONTAMINATION AND CORROSION. INLET AND OUTLET 1/2" PIPE THREAD. MOLDED INTO BASE. DECK MOUNTED, GOOSENECK STYLE.
LV 1	LAB VALVE	-	-	-	1/2" / 3/4"	-	FAUCETS: "WaterSaver" MODEL: L4100, LABORATORY BALL VALVE. NONREMOVABLE SERRATED HOSE END. MAXIMUM WORKING PRESSURE IS 125 PSI. POLISHED CHROME PLATED FINISH.
LV 2	LAB VALVE	-	-	-	3/4"	-	FAUCETS: "WaterSaver" MODEL: L4100-158FT. LABORATORY BALL VALVE ASSEMBLY, WALL MOUNTED SINGLE, FLOATING ESCUTCHEON.

**FINAL CONSTRUCTION DOCUMENTS - FULLY SPRINKLERED**

100% SCHEMATIC SUBMISSION	11/06/15
95% CONSTRUCTION DOCUMENTS	1/27/16
100% CONSTRUCTION DOCUMENTS	2/01/16
FINAL CONSTRUCTION DOCUMENTS	4/01/16
AMENDMENT #A00001	5/03/16
AMENDMENT #A00002	6/24/16
Revisions:	Date

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 Job No. 2015-166-00



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Drawing Title: **PLUMBING SCHEDULES**

Approved: \_\_\_\_\_  
 CHIEF CONSTRUCTION MANAGEMENT/DESIGN SECTION  
 PROJECT ENGINEER

Project Title: **RENOVATE ANATOMICAL PATHOLOGY (CLINICAL LAB PHASE III)**

Location: 3350 LA JOLLA VILLAGE DRIVE SAN DIEGO, CA 92161

Date: 5/03/16

Checked: \_\_\_\_\_ Drawn: \_\_\_\_\_

Project Number: 664-14-427  
 Building Number: 1  
 Drawing Number: PE-002  
 Dwg. 87 of 123

Office of Construction and Facilities Management  
 Department of Veterans Affairs

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 one and one half inches = one foot  
 one inch = one foot  
 one quarter inch = one foot  
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FINAL CONSTRUCTION DOCUMENTS

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**LABORATORY EQUIPMENT SCHEDULE**

ITEM	EQUIPMENT ID #	DESCRIPTION	MANUFACTURER	MODEL #	NEW ROOM#	DIMENSIONS	WEIGHT (lbs)	PLUMBING REQUIREMENT	REMARKS
EQ 1	M1006, M1018, M1009, MY03, MY04, MY07, MY08 & MY09	INCUBATOR	"THERMO FORMA"	3950 GLASS DOOR	SEE PLAN	38"(W) x 33"(D) x 80"(H)	500	1) 1/2" CO2 HOSE CONNECTION. 2) 1/2" DE (DI) WATER SUPPLY. 3) AIR GAP FOR DRAINING.	1) CO2 GAS SHOULD BE INDUSTRIAL GRADE 99.5% PURE. 2) GAS REGULATOR IS REQUIRED AND TO BE INSTALLED ON THE OUTLET VALVE OF CO2 GAS CYLINDER, SEE GPR-1 BELOW FOR DETAIL. 3) THIS IS EXISTING RELOCATED EQUIPMENT, IT WILL BE OWNER FURNISHED AND CONTRACTOR INSTALL.
EQ 2	M1104	BATH, WATER CIRCULATING	"THERMO FISHER SCIENTIFIC"	PRECISION 260	1231	24.5"(W) x 14"(D) x 9.5"(H)	40	1) 1/2" INDUSTRIAL WATER (ICW) SUPPLY. 2) INDIRECT WASTE - FLOOR SINK. 3) 1/2" BACKFLOW PREVENTER.	1) WATER PRESSURE SHOULD BE MIN. 15PSI AND MAX. 75 PSI. 2) THIS IS EXISTING RELOCATED EQUIPMENT, IT WILL BE OWNER FURNISHED AND CONTRACTOR INSTALL.
EQ 3	MY01	BIO SAFETY STORAGE CABINET	"BAKER"	STERILGARD III SG403A-TX	1231E	-	-	1) 3/4" VACUUM IS REQUIRED.	1) EXHAUST VENTING IS REQUIRED BY MECHANICAL. 2) THIS IS NEW EQUIPMENT, IT WILL BE OWNER FURNISHED AND CONTRACTOR INSTALL.
EQ 4	MB112	AUTOCLAVE	"PRIMUS STERILIZER"	20"x20"x38" PRIMUS CLINICAL - SMALL STERILIZERS DOUBLR DOOR (MODEL# PSS5-A-ME-DD) WITH BUILD-IN STEAM BOILER (MODEL# EB3-480/3 PHASE) AND AIR COMPRESSOR (MODEL# C2025).	1231F	CHAMBER: 20"(W) x 38"(D) x 20"(H)	-	1) 3/4" INDUSTRIAL WATER (ICW) SUPPLY FOR STEAM BOILER. 2) INDIRECT WASTE - FLOOR SINK. 3) 1/2" COMPRESSED AIR. 4) 3/4" BACKFLOW PREVENTER.	1) BUILD-IN STEAM BOILER - LOW TEMPERATURE FLOWING STEAM. 2) BUILD-IN AIR COMPRESSOR (2.5 GALLON) WITH MAXIMUM WORKING PRESSURE AT 150 PSI. 3) THIS IS NEW EQUIPMENT, IT WILL BE OWNER FURNISHED AND CONTRACTOR INSTALL.
EQ 5	BD01	ICE MACHINE, DISPENSER NUGGET, COUNTERTOP	"HOSHIZAKI AMERICAN, INC"	DCM-270BAH	1220E	16.75"(W) x 24.25"(D) x 32"(H)	165	1) 1/2" INDUSTRIAL WATER (ICW) SUPPLY. 2) INDIRECT WASTE - FLOOR SINK. 3) 1/2" BACKFLOW PREVENTER.	1) DISPENSES ICE AND WATER. 2) THIS IS EXISTING EQUIPMENT. IT WILL BE CONTRACTOR FURNISHED AND INSTALL.
EQ 6	FC05, FC06	BIOSAFETY HOOD	"FORMA SCIENTIFIC"	NU-430-400	1238	-	-	1) DRAIN - INDIRECT WASTE - FLOOR SINK. 2) 3/4" VACUUM CONNECTION.	1) EXHAUST VENTING IS REQUIRED BY MECHANICAL. 2) THIS IS NEW EQUIPMENT, IT WILL BE OWNER FURNISHED AND CONTRACTOR INSTALL.
EQ 7	NOT USED								
EQ 8	NOT USED								
EQ 9	M1024	ANAEROBE SYSTEM	"ANOXOMAT"	MARK	1231	-	-	1) 1/2" CO2 HOSE CONNECTION. 2) 1/2" LIQ-N2 HOSE CONNECTION.	1) THIS IS NEW EQUIPMENT, IT WILL BE OWNER FURNISHED AND CONTRACTOR INSTALL.

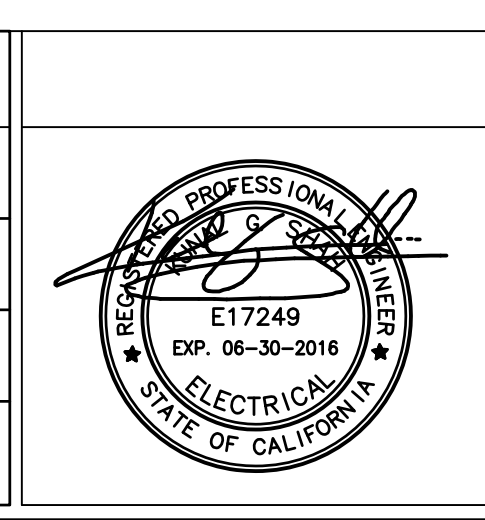
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Revisions:	Date

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1	DATE	ISSUE DESCRIPTION
1	04-21-16	DESIGN UPDATE



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Drawing Title  
**LABORATORY EQUIPMENT SCHEDULE**

Approved: \_\_\_\_\_  
 CHIEF CONSTRUCTION MANAGEMENT/DESIGN SECTION  
 PROJECT ENGINEER

Project Title  
**RENOVATE ANATOMICAL PATHOLOGY (CLINICAL LAB PHASE III)**

Location  
3350 LA JOLLA VILLAGE DRIVE  
SAN DIEGO, CA 92161

Date  
5/03/16

Checked \_\_\_\_\_  
 Drawn \_\_\_\_\_

Project Number  
664-14-427

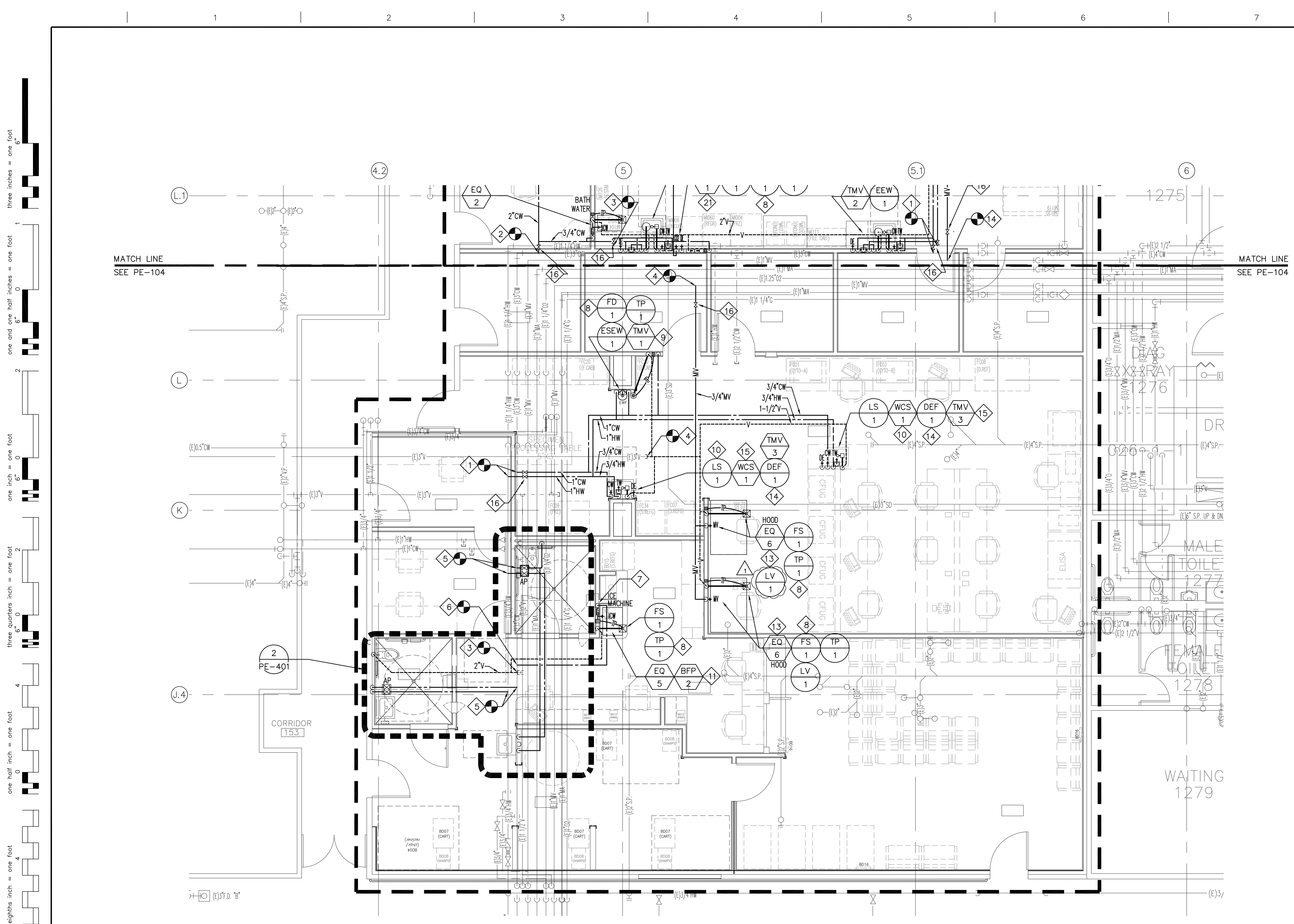
Building Number  
1

Drawing Number  
PE-003

Dwg 88 of 123

Office of Construction and Facilities Management  
 Department of Veterans Affairs

FINAL CONSTRUCTION DOCUMENTS



**PARTIAL REMODEL PLUMBING 1 ST FLOOR PLAN 2**  
 SCALE: 1/4"=1'-0"  
 NORTH

KEY NOTES	GENERAL NOTES
<p>1 1" CW &amp; 1" HW PIPING CONNECT TO EXISTING COLD AND HOT WATER PIPING.</p> <p>2 2" CW PIPING CONNECT TO (E) 3" CW PIPING.</p> <p>3 2" V CONNECT TO (E) 2" V AT INTERSTITIAL SPACE OF 1ST FLOOR.</p> <p>4 3/4" MV CONNECT TO (E) 1" MV PIPING AT INTERSTITIAL SPACE OF 1ST FLOOR.</p> <p>5 1-1/2" CW AND 3/4" HOT WATER CONNECT TO (E) 3" CW AT INTERSTITIAL SPACE.</p> <p>6 3/4" CW CONNECT TO (E) 3" CW AT INTERSTITIAL SPACE OF 1ST FLOOR.</p> <p>7 3/4" CW DOWN AND CONNECT TO BFP-2.</p> <p>8 2" W DOWN AND 1-1/2" V UP, 1/2" CW CONNECT TO TP-1. PROVIDE ACCESS PANEL FOR TP-1.</p> <p>9 LOCATED TMV-1 ABOVE ESEW-1 WITH CABINET. PROVIDE 1" CW &amp; 1" HW TO TMV-1 AND 1-1/4" TW DOWN TO ESEW-1.</p> <p>10 1/2" DE WATER FROM BELOW CEILING SPACE. CONNECTING 1/2" DE TO DEF-1.</p> <p>11 LOCATED BFP-2 AT INTERSTITIAL SPACE OF 1ST FLOOR. PROVIDE 1/2" CW TO INLET OF BFP-2, AND OUTLET 1/2" CW DOWN TO THE ICE MACHINE (EQ-5).</p> <p>12 2" W DOWN, 1-1/2" V UP, 3/4" CW &amp; 3/4" HW CONNECT TO CP-1.</p> <p>13 3/4" MV DOWN AND CONNECT TO HOOD (EQ-6).</p> <p>14 1/2" DE WATER FROM BELOW CEILING SPACE OF BASEMENT UP AND CONNECT TO DEF-1.</p> <p>15 POINT OF USE. PROVIDE 3/4" CW AND 3/4" HW TO TMV-3. LOCATED TMV-3 AT INSIDE CABINET OF LAB SINK.</p> <p>16 PROVIDE SHUT-OFF VALVE FOR NEW PIPE AT INTERSTITIAL SPACE OF 1ST FLOOR.</p>	<p>1. VERIFY PLUMBING FIXTURE HEIGHTS PRIOR TO ROUGH-IN. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND EXACT LOCATION OF PLUMBING FIXTURES.</p>
	<p><b>PLUMBING SYSTEM INTERRUPTION</b></p> <p>IMPAIRMENT OF EXISTING PLUMBING SYSTEM IN ORDER TO INSTALL NEW PIPING SHALL BE LIMITED TO A MINIMUM AND SHALL BE AUTHORIZED BY THE PROJECT ENGINEER AND VA REPRESENTATIVE. BEFORE AUTHORIZATION IS GIVEN, CONTRACTOR SHALL VERIFY THAT THE FOLLOWING ITEMS ARE ACCOMPLISHED:</p> <ol style="list-style-type: none"> <li>THE BUILDING WILL REMAIN IN OPERATION AND OCCUPIED OVER THE DURATION OF CONSTRUCTION PROCESS. ANY DISRUPTIVE WORK/ACTIVITIES SHALL BE PERFORMED DURING OFF HOURS WITH PRIOR APPROVAL OF VA REPRESENTATIVE.</li> <li>DETERMINE THE EXACT AREA OR LOCATION OF THE INTENDED IMPAIRMENT AND DURATION.</li> <li>NOTIFY THE PROJECT ENGINEER OF THE AFFECTED AREA OF THE IMPAIRMENT.</li> </ol> <p>WHEN ALL IMPAIRED PLUMBING SYSTEM IS RESTORED TO NORMAL WORKING ORDER, PROVIDE VERIFICATION OF THE FOLLOWING:</p> <ol style="list-style-type: none"> <li>VERIFY THAT ALL NEW CONNECTIONS TO THE PLUMBING SYSTEM ARE TESTED AND PROVEN TO HAVE NO LEAKAGE.</li> <li>ADVISE PROJECT ENGINEER THAT THE PIPING SERVICE HAS BEEN FULLY RESTORED.</li> </ol>
	<p><b>INFECTION CONTROL DURING CONSTRUCTION</b></p> <p>CONTRACTOR SHALL SUBMIT A CONSTRUCTION PHASING PLAN FOR INFECTION CONTROL TO PROJECT ENGINEER FOR APPROVAL PRIOR TO STATING THE PROJECT. PROVIDE FOLLOWING ITEMS AS MINIMUM REQUIREMENT:</p> <ol style="list-style-type: none"> <li>TEMPORARY PLUMBING BYPASS CONNECTION.</li> <li>REMOVAL OF EXISTING PIPING, WASTE MATERIAL AND SPILL.</li> <li>NEW AND EXISTING PIPES MUST BE SEALED LIQUID TIGHT.</li> <li>EXISTING SEWER PIPES SHALL BE DISPOSED AS HAZARDOUS WASTE.</li> <li>PROTECTION SURROUNDING AREA AND FLOOR FROM SEWAGE SPILLS.</li> <li>PROVIDE INFECTION CONTROL BARRIERS FOR THE WORKING AREA.</li> </ol>

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 three eighths inch = one foot  
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Revisions	Date

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**Drawing Title**  
 PARTIAL REMODEL PLUMBING 1 ST FLOOR PLAN 2

**Approved:**  
 CHIEF CONSTRUCTION MANAGEMENT/DESIGN SECTION  
 PROJECT ENGINEER

**Project Title**  
 RENOVATE ANATOMICAL PATHOLOGY (CLINICAL LAB PHASE III)

**Location**  
 3350 LA JOLLA VILLAGE DRIVE SAN DIEGO, CA 92161

**Date**  
 5/03/16

**Checked**  
 [ ]

**Drawn**  
 [ ]

**Project Number**  
 664-14-427

**Building Number**  
 1

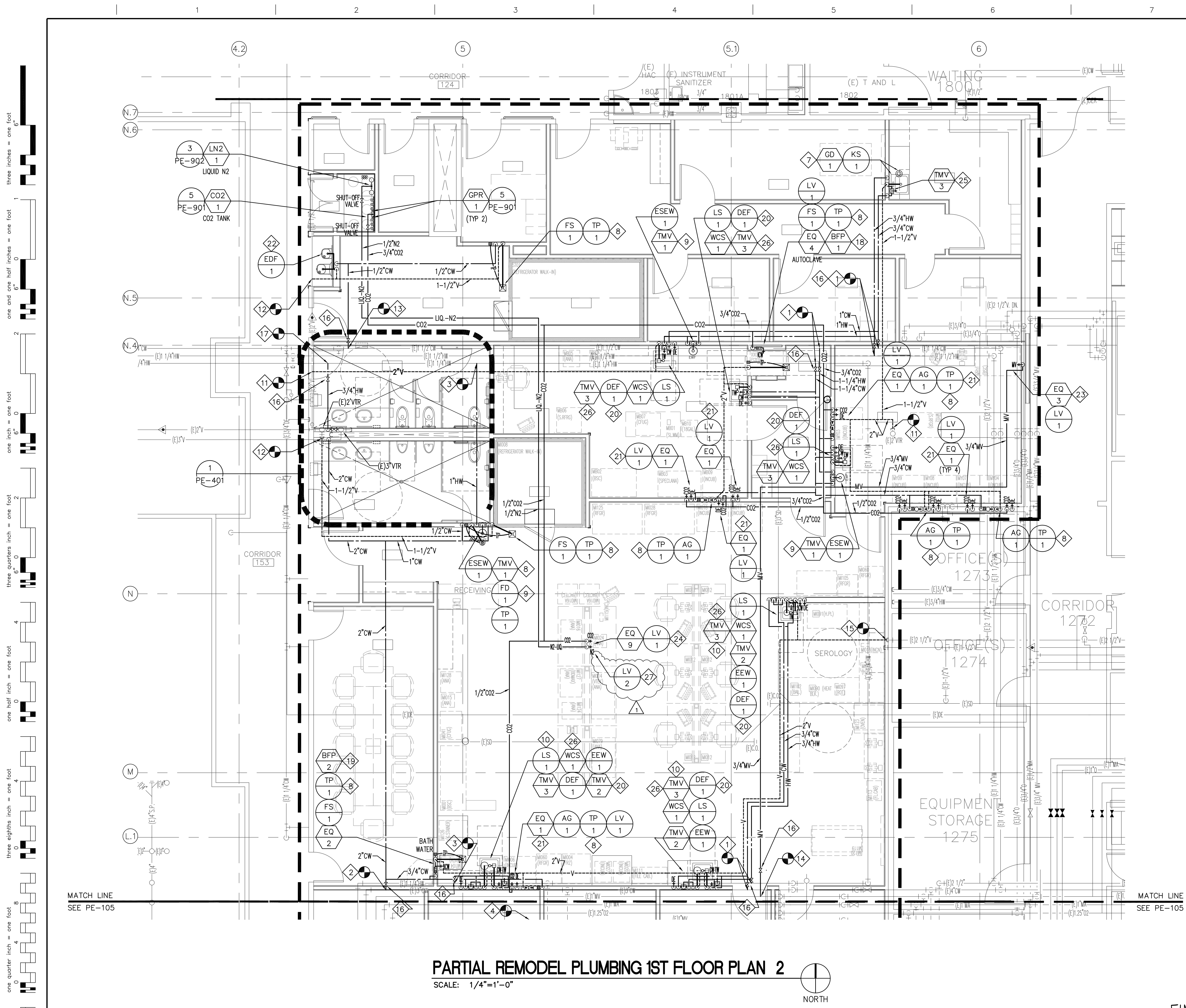
**Drawing Number**  
 PE-106

**Dwg** 96 of 123

**Office of Construction and Facilities Management**

Department of Veterans Affairs

FINAL CONSTRUCTION DOCUMENTS - FULLY SPRINKLERED



**PARTIAL REMODEL PLUMBING 1ST FLOOR PLAN 2**  
 SCALE: 1/4"=1'-0"  
 NORTH

KEY NOTES		GENERAL NOTES	
1	1" CW & 1" HW PIPING CONNECT TO EXISTING COLD AND HOT WATER PIPING AT INTERSTITIAL SPACE OF 1ST FLOOR.	1.	VERIFY PLUMBING FIXTURE HEIGHTS PRIOR TO ROUGH-IN. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND EXACT LOCATION OF PLUMBING FIXTURES.
2	2" CW PIPING CONNECT TO (E) 3" CW PIPING AT INTERSTITIAL SPACE OF 1ST FLOOR.	<b>PLUMBING SYSTEM INTERRUPTION</b> IMPAIRMENT OF EXISTING PLUMBING SYSTEM IN ORDER TO INSTALL NEW PIPING SHALL BE LIMITED TO A MINIMUM AND SHALL BE AUTHORIZED BY THE PROJECT ENGINEER AND VA REPRESENTATIVE. BEFORE AUTHORIZATION IS GIVEN, CONTRACTOR SHALL VERIFY THAT THE FOLLOWING ITEMS ARE ACCOMPLISHED: 1. THE BUILDING WILL REMAIN IN OPERATION AND OCCUPIED OVER THE DURATION OF CONSTRUCTION PROCESS. ANY DISRUPTIVE WORK/ACTIVITIES SHALL BE PERFORMED DURING OFF HOURS WITH PRIOR APPROVAL OF VA REPRESENTATIVE. 2. DETERMINE THE EXACT AREA OR LOCATION OF THE INTENDED IMPAIRMENT AND DURATION. 3. NOTIFY THE PROJECT ENGINEER OF THE AFFECTED AREA OF THE IMPAIRMENT. WHEN ALL IMPAIRED PLUMBING SYSTEM IS RESTORED TO NORMAL WORKING ORDER, PROVIDE VERIFICATION OF THE FOLLOWING: 1. VERIFY THAT ALL NEW CONNECTIONS TO THE PLUMBING SYSTEM ARE TESTED AND PROVEN TO HAVE NO LEAKAGE. 2. ADVISE PROJECT ENGINEER THAT THE PIPING SERVICE HAS BEEN FULLY RESTORED.	
3	1" HW PIPING CONNECT TO (E) 1-1/4" HW PIPING AT INTERSTITIAL SPACE OF 1ST FLOOR.		
4	2" V CONNECT TO (E) 3" V PIPING AT INTERSTITIAL SPACE OF 1ST FLOOR.		
5	NOT USED.		
6	NOT USED.		
7	2" W, 3/4" CW & 3/4" HW DOWN, AND 1-1/2" V UP TO KITCHEN SINK.		
8	2" W DOWN AND 1-1/2" V UP. 1/2" CW CONNECT TO TP-1. PROVIDE ACCESS PANEL FOR TP-1.	<b>INFECTION CONTROL DURING CONSTRUCTION</b> CONTRACTOR SHALL SUBMIT A CONSTRUCTION PHASING PLAN FOR INFECTION CONTROL TO PROJECT ENGINEER FOR APPROVAL PRIOR TO STATING THE PROJECT. PROVIDE FOLLOWING ITEMS AS MINIMUM REQUIREMENT: 1. TEMPORARY PLUMBING BYPASS CONNECTION. 2. REMOVAL OF EXISTING PIPING, WASTE MATERIAL AND SPILL. 3. NEW AND EXISTING PIPES MUST BE SEALED LIQUID TIGHT. 4. EXISTING SEWER PIPES SHALL BE DISPOSED AS HAZARDOUS WASTE. 5. PROTECTION SURROUNDING AREA AND FLOOR FROM SEWAGE SPILLS. 6. PROVIDE INFECTION CONTROL BARRIERS FOR THE WORKING AREA.	
9	LOCATED TMV-1 ABOVE ESEW-1 WITH CABINET. PROVIDE 1" CW & 1" HW TO TMV-1 AND 1-1/4" TW DOWN TO ESEW-1.		
10	LOCATED TMV-2 UNDER THE CABINET OF LS-1. PROVIDE 1/2" CW & 1/2" HW TO TMV-2 AND 1/2" TW DOWN TO EEW-1.		
11	2" V CONNECT TO (E) 2" V AT INTERSTITIAL SPACE OF 1ST FLOOR.		
12	1-1/2" V CONNECT TO (E) 2" V AT INTERSTITIAL SPACE OF 1ST FLOOR.		
13	1/2" CW CONNECT TO (E) 1-1/2" CW AT INTERSTITIAL SPACE OF 1ST FLOOR.		
14	3/4" MV CONNECT TO (E) 1" MV AT INTERSTITIAL SPACE OF 1ST FLOOR.		
15	2" V CONNECT TO (E) 2-1/2" V AT INTERSTITIAL SPACE OF 1ST FLOOR.		
16	PROVIDE SHUT-OFF VALVE FOR NEW PIPE AT INTERSTITIAL SPACE OF 1ST FLOOR.		
17	3/4" HW CONNECT TO (E) 1-1/4" HW AT INTERSTITIAL SPACE OF 1ST FLOOR.		
18	LOCATED BFP-1 AT INTERSTITIAL SPACE OF 1ST FLOOR. PROVIDE 3/4" CW TO INLET OF BFP-1, AND OUTLET 3/4" ICW DOWN TO THE AUTOCLAVE (EQ-4).		
19	LOCATED BFP-2 AT INTERSTITIAL SPACE OF 1ST FLOOR. PROVIDE 1/2" CW TO INLET OF BFP-2, AND OUTLET 1/2" ICW DOWN TO BATH WATER EQUIPMENT (EQ-2).		
20	1/2" DE WATER FROM BELOW CEILING SPACE. CONNECTING 1/2" DE TO DEF-1.		
21	CONNECTING 1/2" CO2 (DOWN) AND 1/2" DE WATER FROM BELOW TO INCUBATOR (EQ-1).		
22	2" W DOWN, 1-1/2" V UP AND 1/2" CW CONNECT TO EDF-1.		
23	3/4" MV DOWN AND CONNECT TO BIO-SAFETY CABINET (EQ-3).		
24	3/4" MV AND 1/2" CO2 DOWN AND CONNECT TO ANAEROBE SYSTEM (EQ-9).		
25	POINT OF USE. PROVIDE 3/4" CW AND 3/4" HW TO TMV-3. LOCATED TMV-3 AT INSIDE CABINET OF KITCHEN SINK.		
26	POINT OF USE. PROVIDE 3/4" CW AND 3/4" HW TO TMV-3. LOCATED TMV-3 AT INSIDE CABINET OF LAB SINK.		
27	LAB BALL VALVE FOR LIQUID N2.		

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**Drawing Title:**  
 PARTIAL REMODEL PLUMBING  
 1ST FLOOR PLAN 2

**Approved:**  
 CHIEF CONSTRUCTION MANAGEMENT/DESIGN SECTION  
 PROJECT ENGINEER

**Project Title:**  
 RENOVATE ANATOMICAL PATHOLOGY  
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**Location:**  
 3350 LA JOLLA VILLAGE DRIVE  
 SAN DIEGO, CA 92161

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**Office of Construction and Facilities Management**

Department of Veterans Affairs

FINAL CONSTRUCTION DOCUMENTS - FULLY SPRINKLERED