PLUMBING FIXTURE SCHEDULE:

WC-1	PROVIDE A TOTO MODEL CT705ULN VITREOUS CHINA FLUSHOMETER TYPE, ADA COMPLIANT FLOOR MOUNTED, 1.6 GPF WATER CLOSET WITH ELONGATED BOWL AND TOP SPUD CONNECTION, OR EQUAL. PROVIDE WC WITH A 1.6 GALLON CHROME PLATED, PISTON TYPE, EXPOSED FLUSH VALVE WITH METAL OSCILLATING NON-HOLD OPEN HANDLE, 1" IPS SCREW DRIVER ANGLE STOP, PROTECTIVE CAP, ADJUSTABLE TAIL PIECE, VACUUM BREAKER, FLUSH CONNECTION, ADA COMPLIANT HANDLE, SPUD COUPLING FOR 1-1/2" TOP SPUD, WALL AND SPUD FLANGES EQUAL TO TOTO MODEL TMT1NNC-32. MOUNT TOP OF FLUSH VALVE BELOW GRAB BAR OR PROVIDE OFFSET FOR GRAB BAR AS REQUIRED. PROVIDE WITH AN EXTRA HEAVY SOLID PLASTIC SEAT WITH AN OPEN FRONT AND SELF-SUSTAINING STAINLESS STEEL CHECK HINGES EQUAL TO BEMIS 1655SSCT. PROVIDE CAST IRON CLOSET FLANGE WITH LEAD & OAKUM CONNECTION.
WC-2	PROVIDE A TOTO MODEL CT705ULN VITREOUS CHINA FLUSHOMETER TYPE, ADA COMPLIANT FLOOR MOUNTED, 1.6 GPF WATER CLOSET WITH ELONGATED BOWL AND TOP SPUD CONNECTION, OR EQUAL. PROVIDE WC WITH A 1.6 GALLON CHROME PLATED, PISTON TYPE, EXPOSED FLUSH VALVE WITH METAL OSCILLATING NON-HOLD OPEN HANDLE, 1" IPS SCREW DRIVER ANGLE STOP, PROTECTIVE CAP, ADJUSTABLE TAIL PIECE, VACUUM BREAKER, FLUSH CONNECTION, ADA COMPLIANT HANDLE, SPUD COUPLING FOR 1-1/2" TOP SPUD, WALL AND SPUD FLANGES EQUAL TO TOTO MODEL TMT1NNC-32. MOUNT TOP OF FLUSH VALVE BELOW GRAB BAR OR PROVIDE OFFSET FOR GRAB BAR AS REQUIRED. PROVIDE A WALL MOUNTED, CHROME PLATED BEDPAN WASHER WITH VACUUM BREAKER, LOOSE KEY STOP, ON-OFF VALVE, SELF CLOSING LEVER CONTROL SPRAY & HOOK, BRASS CONSTRUCTION, AND VINYL HOSE EQUAL TO KOHLER MODEL K-13925. PROVIDE WITH AN EXTRA HEAVY SOLID PLASTIC SEAT WITH AN OPEN FRONT AND SELF-SUSTAINING STAINLESS STEEL CHECK HINGES EQUAL TO BEMIS 1655SSCT. PROVIDE CAST IRON CLOSET FLANGE WITH LEAD & OAKUM CONNECTION.
WC-3	PROVIDE A WILLOUGHBY MODEL BETF-1490-FM-FA-12-TS-NFV-SLL TYPE 304 STAINLESS STEEL BARIATRIC FLUSHOMETER TYPE, ADA COMPLIANT FLOOR MOUNTED, 1.6 GPF WATER CLOSET WITH ELONGATED BOWL, CONTOURED SEAT (LESS COVER) AND TOP SPUD CONNECTION, OR EQUAL. PROVIDE WC WITH A 1.6 GALLON CHROME PLATED, PISTON TYPE, EXPOSED FLUSH VALVE WITH METAL OSCILLATING NON-HOLD OPEN HANDLE, 1" IPS SCREW DRIVER ANGLE STOP, PROTECTIVE CAP, ADJUSTABLE TAIL PIECE, VACUUM BREAKER, FLUSH CONNECTION, ADA COMPLIANT HANDLE, SPUD COUPLING FOR 1-1/2" TOP SPUD, WALL AND SPUD FLANGES EQUAL TO TOTO MODEL TMT1NNC-32. MOUNT TOP OF FLUSH VALVE BELOW GRAB BAR OR PROVIDE OFFSET FOR GRAB BAR AS REQUIRED. PROVIDE CAST IRON CLOSET FLANGE WITH LEAD & OAKUM CONNECTION.
WC-4	PROVIDE A TOTO MODEL CT725CU VITREOUS CHINA FLUSHOMETER TYPE, FLOOR MOUNTED, 1.6 GPF WATER CLOSET WITH ELONGATED BOWL AND TOP SPUD CONNECTION, OR EQUAL. PROVIDE WC WITH A 1.6 GALLON CHROME PLATED, PISTON TYPE, EXPOSED FLUSH VALVE WITH METAL OSCILLATING NON-HOLD OPEN HANDLE, 1" IPS SCREW DRIVER ANGLE STOP, PROTECTIVE CAP, ADJUSTABLE TAIL PIECE, VACUUM BREAKER, FLUSH CONNECTION, ADA COMPLIANT HANDLE, SPUD COUPLING FOR 1-1/2" TOP SPUD, WALL AND SPUD FLANGES EQUAL TO TOTO MODEL TMT1NNC-32. PROVIDE WITH AN EXTRA HEAVY SOLID PLASTIC SEAT WITH AN OPEN FRONT AND SELF-SUSTAINING STAINLESS STEEL CHECK HINGES EQUAL TO BEMIS 1655SSCT. PROVIDE CAST IRON CLOSET FLANGE WITH LEAD & OAKUM CONNECTION.
L-1	PROVIDE A KOHLER MODEL K-2030 VITREOUS CHINA WALL HUNG LAVATORY WITH FLOOR MOUNTED CONCEALED ARM CARRIER, OVERFLOW AND 8" CENTERS OR EQUAL. PROVIDE CHROME PLATED 17 GAUGE 1-1/4 X 1-1/2 BRASS P-TRAP WITH CLEANOUT EQUAL TO PROFLOW MODEL PFPTB104. PROVIDE OFFSET LAVATORY GRID DRAIN EQUAL TO PROFLO MODEL PFGD101. PROVIDE A CHICAGO FAUCETS MODEL 786-E36XKABCP GOOSENECK FAUCET. FAUCET TO HAVE A 5-1/4" GOOSENECK, CERAMIC 1/4-TURN CARTRIDGE, VANDAL PROOF 4" WRISTBLADE HANDLES AND 1.5 GPM LAMINAR FLOW CONTROL. PROVIDE FAUCET COLD AND HOT INLETS WITH ANGLE SUPPLY STOPS WITH 1/2" IPS INLET AND 3/8" IPS OUTLET EQUAL TO BRASSCRAFT MODEL TCR19 C. STOPS TO HAVE CHROME PLATED BRASS BODY, REDUCER BUSHINGS, BRASS STEM AND METAL STUFFING BOX. PROVIDE WITH 12" S.S. FLEXIBLE RISERS & ESCUTCHEONS. PROVIDE OFFSET WASTE, TRAP, STOPS AND RISERS WITH HANDICAPPED INSULATION. LAVATORY AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT. PROVIDE FULLY ADJUSTABLE CONCEALED ARM, FLOOR MOUNTED LAVATORY CARRIER, ADJUSTED TO ADA HEIGHT EQUAL TO ZURN Z1231.
L-2	PROVIDE A KOHLER MODEL K-2196 VITREOUS CHINA COUNTER MOUNTED LAVATORY WITH OVERFLOW AND SINGLE FAUCET HOLE OR EQUAL. PROVIDE CHROME PLATED 17 GAUGE 1-1/4 X 1-1/2 BRASS P-TRAP WITH CLEANOUT EQUAL TO PROFLOW MODEL PFPTB104. PROVIDE A CHICAGO FAUCETS MODEL 786-E36XKABCP GOOSENECK FAUCET. FAUCET TO HAVE A 5-1/4" GOOSENECK, CERAMIC 1/4-TURN CARTRIDGE, VANDAL PROOF 4" WRISTBLADE HANDLES AND 1.5 GPM LAMINAR FLOW CONTROL. PROVIDE FAUCET COLD AND HOT INLETS WITH ANGLE SUPPLY STOPS WITH 1/2" IPS INLET AND 3/8" IPS OUTLET EQUAL TO BRASSCRAFT MODEL TCR19 C. STOPS TO HAVE CHROME PLATED BRASS BODY, REDUCER BUSHINGS, BRASS STEM AND METAL STUFFING BOX. PROVIDE WITH 12" S.S. FLEXIBLE RISERS & ESCUTCHEONS. PROVIDE OFFSET WASTE, TRAP, STOPS AND RISERS WITH HANDICAPPED INSULATION.
L-3	PROVIDE A WILLOUGHBY MODEL BWLDR-1922-DMF-NV-8CC-MC TYPE 304 STAINLESS STEEL WALL HUNG BARIATRIC LAVATORY WITH 8" FAUCET HOLES OR EQUAL. LAVATORY TO INCLUDE IN-WALL PLATE MOUNTING CARRIER. PROVIDE CHROME PLATED 17 GAUGE 1-1/4 X 1-1/2 BRASS P-TRAP WITH CLEANOUT EQUAL TO PROFLOW MODEL PFPTB104. PROVIDE A CHICAGO FAUCETS MODEL 786-E36XKABCP GOOSENECK FAUCET. FAUCET TO HAVE A 5-1/4" GOOSENECK, CERAMIC 1/4-TURN CARTRIDGE, VANDAL PROOF 4" WRISTBLADE HANDLES AND 1.5 GPM LAMINAR FLOW CONTROL. PROVIDE FAUCET COLD AND HOT INLETS WITH ANGLE SUPPLY STOPS WITH 1/2" IPS INLET AND 3/8" IPS OUTLET EQUAL TO BRASSCRAFT MODEL TCR19 C. STOPS TO HAVE CHROME PLATED BRASS BODY, REDUCER BUSHINGS, BRASS STEM AND METAL STUFFING BOX. PROVIDE WITH 12" S.S. FLEXIBLE RISERS & ESCUTCHEONS. PROVIDE OFFSET WASTE, TRAP, STOPS AND RISERS WITH HANDICAPPED INSULATION.
U-1	PROVIDE A KOHLER MODEL K-4991-ET VITREOUS CHINA, 0.5 GALLON PER FLUSH WALL HUNG, WASHOUT URINAL WITH INTEGRAL FLUSHING RIM, INTEGRAL TRAP, WALL HANGERS, AND 2 INCH FEMALE FLANGED OUTLET CONNECTION OR EQUAL. URINAL TO HAVE TOP SPUD CONNECTION WITH MANUAL VALVE ASSEMBLY. PROVIDE URINAL WITH A 0.5 GALLON CHROME PLATED, PISTON TYPE, EXPOSED FLUSH VALVE WITH METAL OSCILLATING NON-HOLD OPEN HANDLE, 3/4" IPS SCREW DRIVER ANGLE STOP, PROTECTIVE CAP, ADJUSTABLE TAIL PIECE, VACUUM BREAKER, FLUSH CONNECTION, ADA COMPLIANT HANDLE, SPUD COUPLING FOR 3/4" TOP SPUD, WALL AND SPUD FLANGES EQUAL TO KOHLER MODEL K-76318. PROVIDE FULLY ADJUSTABLE FLOOR MOUNTED URINAL CARRIER WITH HANGER AND BEARING PLATES, ADJUSTED TO ADA HEIGHT EQUAL TO ZURN Z1222. URINAL, ASSOCIATED APPURTENANCES AND INSTALLATION SHALL BE ADA COMPLIANT.
CS-1	PROVIDE A AMERICAN STANDARD MODEL 9504.999.020 VITREOUS CHINA CLINICAL SERVICE SINK. CLINICAL SINK TO BE FLOOR PEDESTAL BASE MOUNTED WITH SIPHON JET FLUSHING, INTEGRAL FLUSHING RIM, 4" OUTLET, 1-1/2" TOP SPUD AND 3 STAINLESS STEEL RIM GUARDS. PROVIDE WITH OPTIONAL 10" HIGH PEDESTAL BASE EQUAL TO MODEL 710098-201.081. PROVIDE WITH 6.5 GALLON CHROME PLATED EXPOSED FLUSH VALVE, METAL OSCILLATING NON-HOLD OPEN HANDLE, 1" IPS SCREW DRIVER ANGLE STOP WITH VANDAL RESISTANT PROTECTIVE CAP, ADJUSTABLE TAIL PIECE, VACUUM BREAKER, FLUSH CONNECTION, SPUD COUPLING FOR 1-1/2" TOP SPUD, WALL AND SPUD FLANGES, AND SOLID RING PIPE SUPPORT. FLUSH VALVE SHALL BE SLOAN ROYAL MODEL 117-6.5. PROVIDE A WALL MOUNTED DOUBLE PEDAL VOLUME CONTROL BED PAN WASHER WITH SELF CLOSING VALVES, EXTENDED HOT AND COLD PEDALS, 1/2" IPS FEMALE INLETS, INTEGRAL LOOSE KEY STOP VOLUME CONTROL VALVE WITH 3/8" FEMALE OUTLET. MINIMUM DIMENSION FROM FINISHED WALL TO TIPS OF PEDALS SHALL BE 13" FOR CLEANING. WALL MOUNTED ALL BRASS CHROME PLATE 3/8" IPS VACUUM BREAKER, WITH FEMALE BOTTOM INLET AND TOP OUTLET WITH UNION COUPLINGS, 53" VINYL HOSE WITH INSULATED HANDLE. MINIMUM DIMENSIONS FROM FINISHED FLOOR TO BOTTOM OF FITTING SHALL BE 60" OR AS REQUIRED BY LOCAL CODE. PROVIDE ANY AND ALL MAKE-UP PIPING NOT SUPPLIED BY FIXTURE MANUFACTURER. PEDAL VALVE AND BED PAN WASHER SHALL BE CHICAGO FAUCET MODEL 910-G777-19KCP. DO NOT INSTALL A SELF CLOSING VALVE BETWEEN THE VACUUM BREAKER AND THE CONTROL VALVE. 1/2" MALE ADAPTER SUPPLY SHALL BE ALL BRASS WITH CHROME PLATED WALL HOOK, 3/8" FLANGED FEMALE INLET.
FD-1	PROVIDE A ZURN MODEL Z415B-VP FLOOR DRAIN OR EQUAL. FLOOR DRAIN SHALL HAVE A COATED CAST IRON BODY, BOTTOM OUTLET, COMBINATION REVERSIBLE CLAMP COLLAR AND ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER, 3" OUTLET, 6" ROUND TOP, AND VANDAL PROOF. PROVIDE WITH DEEP SEAL TRAP AND TRAP PRIMER CONNECTION.
FD-2	PROVIDE A ZURN MODEL Z415I-VP FLOOR DRAIN OR EQUAL. FLOOR DRAIN SHALL HAVE A COATED CAST IRON BODY, BOTTOM OUTLET, COMBINATION REVERSIBLE CLAMP COLLAR AND ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER WITH RAISED FLANGE, 3" OUTLET, 5-7/16" ROUND TOP, AND VANDAL PROOF. PROVIDE WITH DEEP SEAL TRAP AND TRAP PRIMER CONNECTION. MOUNT TOP OF RAISED FLANGE FLUSH WITH FINISHED FLOOR.
FD-3	PROVIDE A ZURN MODEL Z415B-VP FLOOR DRAIN OR EQUAL. FLOOR DRAIN SHALL HAVE A COATED CAST IRON BODY, BOTTOM OUTLET, COMBINATION REVERSIBLE CLAMP COLLAR AND ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER, 2" OUTLET, 6" ROUND TOP, AND VANDAL PROOF. PROVIDE WITH DEEP SEAL TRAP AND TRAP PRIMER CONNECTION.
FS-1	PROVIDE A ZURN MODEL Z1926-2 FLOOR SINK OR EQUAL. FLOOR SINK SHALL HAVE A CAST IRON BODY, BOTTOM OUTLET, ACID RESISTING EPOXY COATED INTERIOR & TOP, ALUMINUM ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER, 12" SUMP, SLOTTED 16" SQUARE MEDIUM DUTY HALF GRATE, 4" OUTLET WITH ACID RESISTANT COATED INTERIOR AND TOP.
FS-2	PROVIDE A ZURN MODEL ZN1950-2-23 ROUND FLOOR SINK OR EQUAL. FLOOR SINK SHALL HAVE A CAST IRON BODY, BOTTOM OUTLET, ACID RESISTING PORCELAIN ENAMEL INTERIOR & TOP, ALUMINUM BUCKET STRAINER, 8" DEEP SUMP, SLOTTED 10-1/2" DIAMETER HALF GRATE AND 4" OUTLET.
S-1	PROVIDE A ELKAY MODEL LR1720 STAINLESS STEEL SINGLE BOWL TOP MOUNT SINK OR EQUAL. SINK TO BE 18 GAUGE TYPE 304 STAINLESS STEEL, 17"x20"x7-5/8" DEEP, PUNCHED FOR 3 HOLES, AND POLISHED TO A SATIN FINISH. SINK TO COME COMPLETE WITH AN ELKAY MODEL LK35 DRAIN. PROVIDE A CHICAGO FAUCETS MODEL 786-GR8E36V317XKAB GOOSENECK FAUCET. FAUCET TO HAVE A 8" GOOSENECK, CERAMIC 1/4-TURN CARTRIDGE AND VANDAL PROOF 4" WRISTBLADE HANDLES. PROVIDE WITH 1.5 GPM VANDAL PROOF LAMINAR FLOW OUTLET EQUAL TO CHICAGO FAUCETS MODEL E36VPJKABCP. PROVIDE FAUCET COLD AND HOT INLETS WITH ANGLE SUPPLY STOPS WITH 1/2" IPS INLET AND 3/8" IPS OUTLET EQUAL TO BRASSCRAFT MODEL TCR19 C. STOPS TO HAVE CHROME PLATED BRASS BODY, REDUCER BUSHINGS, BRASS STEM AND METAL STUFFING BOX. PROVIDE WITH 12" S.S. FLEXIBLE RISERS & ESCUTCHEONS. PROVIDE CHROME PLATED 17 GAUGE 1-1/2 X 1-1/2 BRASS P-TRAP WITH CLEANOUT EQUAL TO PROFLOW MODEL PFPTB108.
S-2	PROVIDE A ELKAY MODEL LR3319 STAINLESS STEEL DOUBLE BOWL, TOP MOUNT SINK OR EQUAL. SINK TO BE 18 GAUGE TYPE 304 STAINLESS STEEL, "33"x19-1/2" OVERALL, BOWL SIZE = 14"x14"x7-5/8" DEEP, PUNCHED FOR 3 HOLES, AND POLISHED TO A SATIN FINISH. SINK TO COME COMPLETE WITH AN ELKAY LK-35 STAINLESS STEEL DRAINS. PROVIDE A CHICAGO FAUCETS MODEL 201-RSHA8AE35VXKAB HIGH ARCH SWING FAUCET. FAUCET TO HAVE A 8" RESTRICTED SWING HIGH ARCH SPOUT, VANDAL PROOF 2-3/8" LEVER HANDLES, CERAMIC 1/4-TURN CARTRIDGES AND VANDAL PROOF 1.5 GPM SOFTFLOW AERATOR. SET FAUCTE SWING TO 120°. PROVIDE COLD WATER AND HOT WATER INLETS WITH 1/4 TURN ANGLE BALL STOPS WITH 1/2" IPS INLET AND 3/8" IPS OUTLET EQUAL TO BRASSCRAFT MODEL KTR19. STOPS TO BE ALL BRASS WITH REMOVABLE HANDLE AND RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOPS WITH CHROME WALL ESCUTCHEONS AND STAINLESS STEEL FLEXIBLE SUPPLIES FROM STOPS TO FAUCET. PROVIDE CHROME PLATED 17 GAUGE 1-1/2" X 1-1/2" P-TRAP WITH CLEANOUT.
S-3	3 COMPARTMENT PROCESSING SINK PROVIDE BY OTHERS. PROVIDE COLD WATER AND HOT WATER INLETS WITH 1/4 TURN ANGLE BALL STOPS WITH 1/2" IPS INLET AND 3/8" IPS OUTLET EQUAL TO BRASSCRAFT MODEL KTCR19. STOPS TO BE ALL BRASS WITH BRASS STEM & REMOVABLE METAL HANDLE RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOP WITH CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLY FROM STOPS TO FAUCETS.
SS-1	PROVIDE AN ELKAY MODEL EWSF26026KWSC STAINLESS STEEL DOUBLE BOWL KNEE OPERATED SURGEON SCRUB SINK OR EQUAL. SINK TO BE 16 GAUGE TYPE 304 STAINLESS STEEL, 60"x23"x26" TALL, A/C POWERED, PUNCHED FOR 2 SINGLE CENTER FAUCET HOLES, AND 2 SINGLE HOLE SOAP DISPENSERS, POLISHED TO A SATIN FINISH. SINK TO COME COMPLETE WITH 2 ELKAY MODEL LK18B DRAINS, AND 2 ELKAY MODEL LK394A FAUCET SPOUTS. PROVIDE COLD WATER AND HOT WATER INLETS WITH 1/4 TURN ANGLE BALL STOPS WITH 1/2" IPS INLET AND 3/8" IPS OUTLET EQUAL TO BRASSCRAFT MODEL KTCR19. STOPS TO BE ALL BRASS WITH BRASS STEM & REMOVABLE METAL HANDLE RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOP WITH CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLY FROM STOPS TO SINK INLETS. PROVIDE CHROME PLATED WASTE, AND CHROME PLATED 17 GAUGE 1-1/2" X 1-1/2" P-TRAP WITH CLEANOUT. COORDINATE ELECTRICAL OUTLET LOCATION WITH ELECTRICAL CONTRACTOR.
SH-1	PROVIDE A AQUARIUS MODEL S 4136 BF EB ONE PIECE ACRYLIC SHOWER OR EQUAL. SHOWER TO HAVE 3/4" NO RECESS THRESHOLD, DOMED TOP, L-BAR, S-BAR, HDPE FOLD UP SEAT, NO SOAP LEDGE OR SOAP DISH, DRILLED FOR DOMELIGHT, 120 VOLT DOME LIGHT, 1" STAINLESS STEEL CURTAIN ROD AND COME COMPLETE WITH EASY BASE. PROVIDE A SYMMONS MODEL 1-117-FS-1.5-B30-X PRESSURE-BALANCING SHOWER VALVE WITH HANDHELD SHOWER (NO EQUALS). VALVE TO HAVE BRASS BODY, ADJUSTABLE LIMIT STOP AND SCREWDRIVER STOPS. TO COME COMPLETE WITH 1.5 GPM FLOW RESTRICTOR, SHOWER HEAD, 60" HOSE & HAND SHOWER, 30" SLIDER BAR, VACUUM BREAKER AND DIVERTER VALVE. ALL EXPOSED PARTS TO BE CHROME PLATED. PROVIDE A SIOUX CHIEF MODEL 827-2B SHOWER DRAIN OR EQUAL AS APPROVED BY SHOWER MANUFACTURER. DRAIN SHALL HAVE A BRASS BODY, BRASS LOCKNUT, OUTER FIBRE WASHER, OUTER GASKET, STAINLESS STEEL STRAINER, INNER COMPRESSION GASKET & COMPRESSION NUT, AND 2" BOTTOM OUTLET. PROVIDE WITH DEEP SEAL TRAP. SHOWER AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT.
EWC-1	PROVIDE A ELKAY MODEL LZSTL8LFC ELECTRIC WATER COOLER, OR EQUAL. TYPE 304 STAINLESS STEEL WATER COOLER POLISHED TO A #4 SATIN FINISH WITH DUAL HEIGHT RECEPTOR, SELF CLOSING FRONT AND SIDE MOUNTED PUSH BUTTON TYPE BUBBLERS, STRAINER AND TAILPIECE. SURFACE MOUNTED REFRIGERANT CHILLER UNIT CAPABLE OF 8 GPH OF 50°F AT AN AMBIENT TEMPERATURE OF 90°F. ELECTRICAL CHARACTERISTICS - 115V AC, 60HZ, SINGLE PHASE. PROVIDE APRON UNDER UPPER UNIT AS REQUIRED TO MEET ADA REQUIREMENTS. UNIT TO BE COMPLETE WITH WATER SENTRY VII FILTER WITH 1,500 GALLON CAPACITY TO REMOVE CYSTS, LEAD AND CHLORINE. PROVIDE CHROME PLATED 17 GAUGE 1-1/4 X 1-1/2 BRASS P-TRAP WITH CLEANOUT. PROVIDE COLD WATER INLET WITH 1/4 TURN ANGLE BALL STOP WITH 1/2" IPS INLET AND 3/8" IPS OUTLET EQUAL TO BRASSCRAFT MODEL KTCR19. STOP TO BE ALL BRASS WITH BRASS STEM & REMOVABLE METAL HANDLE RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOP WITH CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLY FROM STOP TO WATER COOLER INLET. WATER COOLER AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT.
TMV-1	PROVIDE A BRADLEY MODEL S19-2150 THERMOSTATIC WATER TEMPERING VALVE OR EQUAL. VALVE SHALL BE LEAD FREE BRASS WITH, INTEGRAL UNION CHECK STOPS, ROUGH BRONZE FINISH, ADJUSTABLE TEMPERATURE SETTING, 3/4" INLETS & 1" OUTLET, INTERNAL COLD WATER BYPASS, AND MIXED OUTLET TEMPERATURE GAUGE. VALVE TO BE CAPABLE OF 3.0 GPM MINIMUM FLOW & A MAXIMUM PRESSURE DROP OF 15 PSIG AT 20 GPM AND HAVE ASSE 1071 APPROVAL. SET OUTLET TEMPERATURE TO 85°F.

ABBREVIATIONS

AC	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ALARM PANEL
BC	BELOW CEILING
BF	BELOW FLOOR
CO	CLEANOUT
CO2	CARBON DIOXIDE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DN	DOWN
FA	FROM FLOOR ABOVE
FB	FROM FLOOR BELOW
FCO	FLOOR CLEANOUT
FL	FLOOR
SHW	SOFT HOT WATER
SHWR	SOFT HOT WATER RETURN
MA	MEDICAL AIR
MGO	MEDICAL GAS OUTLET
MGV	MEDICAL GAS VALVE BOX
MO	MEDICAL OXYGEN
MS	MOP SINK
MV	MEDICAL VACUUM
N	NITROGEN
NCP	NITROGEN CONTROL PANEL
N2O	NITROUS OXIDE
NTS	NOT TO SCALE
ORD	OVERFLOW ROOF DRAIN
RD	ROOF DRAIN
RO	REVERSE OSMOSIS
S	SINK
SCW	SOFT COLD WATER
ST	STORM
STO	STORM OVERFLOW
TA	TO FLOOR ABOVE
TB	TO FLOOR BELOW
V	VENT
VTR	VENT THROUGH ROOF
W	SANITARY WASTE
WAGD	WASTE ANESTHETIC GAS DISPOSAL
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR
(P)	PRESENT TO REMAIN
(PX)	PRESENT TO BE REMOVED

SYMBOLS LEGEND

	'DEMOLISH TO' SYMBOL
	'CONNECT TO' SYMBOL
XX-1	PLUMBING FIXTURE TAG
	EXISTING DCW PIPING
	DCW PIPING
	EXISTING DWH PIPING
	DHW PIPING
	EXISTING DHWR PIPING
	DHWR PIPING
	EXISTING WASTE PIPING
	WASTE PIPING
	EXISTING VENT PIPING
	VENT PIPING
	EXISTING AND STORM OVERFLOW PIPING
	STORM AND STORM OVERFLOW PIPING
	ITEMS TO BE DEMOLISHED
	PIPE BREAK
	PIPE TURNED UP
	PIPE TURNED DOWN
	BOTTOM PIPE TAP
	PIPE CAP
	FLOOR OR GRADE CLEANOUT
	DIRECTION OF FLOW
	BALL VALVE
X"MV(P)	EXISTING MEDICAL VACUUM
X"MO(P)	EXISTING MEDICAL OXYGEN
X"MA(P)	EXISTING MEDICAL AIR
X"MV	MEDICAL VACUUM
X"MO	MEDICAL OXYGEN
X"MA	MEDICAL AIR
	MEDICAL GAS VALVE BOX, NCP OR ALARM PANEL AS NOTED.
	WATER HAMMER ARRESTOR

CLEANOUT SCHEDULE

	GENERAL (ALL FLOOR & EXTERIOR CLEANOUTS): DURO-COATED CAST IRON CLEANOUT WITH MEMBRANE FLANGE WITH BRONZE COUNTERSUNK PLUG. CLEANOUT CAN BE ADJUSTED TO FINISH FLOOR LEVEL AFTER CONCRETE HAS SET. COORDINATE FLOOR TYPES WITH ARCHITECTURAL PLANS.
FCO	FLOOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. ZURN - ZN1400-BP
FCO	CARPETED FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR CARPET. ZURN - ZN1400-BP-CM
FCO	TILE FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR TILE. ZURN - ZN1400-BP-HD-X
FCO	TERRAZZO FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR TERRAZZO. ZURN - ZN1400-BP-HD-Z
GCO	EXTERIOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. PROVIDE WITH 18" SQUARE X 4" THICK CONCRETE COLLAR. ZURN - ZN1406-BP-HD
WCO	WALL: DURA-COATED CAST IRON CLEANOUT TEE, BRONZE COUNTERSUNK PLUG, WITH ROUND POLISHED STAINLESS STEEL COVER. ZURN - Z1446-BP

CODE REFERENCES

FBC, BUILDING	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, MECHANICAL	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, PLUMBING	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, TEST PROTOCOL	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, EXISTING BUILDING	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, FUEL GAS	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FBC, ENERGY	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION
FFPC	FLORIDA FIRE PREVENTION CODE, 2023 EIGHTH EDITION
NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2019 EDITION
NFPA 25	STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS, 2020 EDITION
NFPA 51B	STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK, 2019 EDITION
NFPA 70	NATIONAL ELECTRIC CODE, 2020 EDITION
NFPA 99	HEALTH CARE FACILITIES CODE, 2021 EDITION
NFPA 101	LIFE SAFETY CODE, 2021 EDITION
NFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY, 2019 EDITION
HEALTHCARE	FGI GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS AND OUTPATIENT FACILITIES, 2022 EDITION.

EXPANSION TANK SCHEDULE

EQUIPMENT NO.	SYSTEM SERVED	MODEL NO.	TANK VOLUME (GALLONS)	ACCEPTANCE FACTOR (%)	SYSTEM TEMP. MAX./MIN.	INITIAL FILL PRESSURE	ASME RATED	MAXIMUM SYSTEM PRESSURE	NOTES
ET-1	DOMESTIC SOFT HOT WATER	ST-12	4.4	73%	60°F/140°F	50 PSI	NO	125 PSI	1

NOTES:
1. BASIS OF DESIGN: AMTROL

LAB AIR COMPRESSOR SCHEDULE

EQUIPMENT NO.	MODEL NO.	DISCHARGE PRESSURE (PSI)	RECEIVER (GAL)	SCFM @ 100 PSIG, ALL PUMPS ON	BTU/HR	PUMP MOTOR (HP)	DIMENSIONS (LxWxH)	PUMP CUT-IN (PSI)	DISCHARGE PIPE SIZE	SYSTEM FLA	VOLTS/ PHASE	WEIGHT (LBS)	NOTES
LAC-1	LSD03A3	105	80	14.6	14,600	(2) @ 3	50x33.5x74	95	1/2"	9	480/3Ø	1050	1,2,3,4,5,6

NOTES:
1. BASIS OF DESIGN: POWEREX
2. SYSTEM TO BE COMPLETE WITH COMPRESSORS, RECEIVER, DUAL DESICCANT DRYERS, AND 5 MICRON DISCHARGE FILTER.
3. SYSTEM TO BE CAPABLE OF 100% OIL-FREE, ULTRA-DRY AIR.
4. RECEIVER TO BE INTERIOR LINED FOR CORROSION RESISTANCE AND COME WITH A PRESSURE GAUGE, RELIEF VALVE, BYPASS VALVE(S), SIGHT GAUGE AND AUTOMATIC TANK DRAIN.
5. MOUNT ON INERTIA BASE, SEE DETAIL.
6. PROVIDE UNIT WITH MANUFACTURERS REMOTE AIR INTAKE.

SOFT HOT WATER RETURN PUMP SCHEDULE

EQUIPMENT NO.	MODEL NO.	TYPE	FLUID TEMP.	GPM	FT OF HEAD	HP	RPM	VOLTAGE/ PHASE	NOTES
P-SW1	008-BC6	IN-LINE	120°F	1.0	14	1/25	3250	120/1Ø	1,2,3

NOTES:
1. BASIS OF DESIGN: TACO
2. PROVIDE A TACO MODEL 265-3 DIGITAL 7 DAY TIMER. COORDINATE TIMER PROGRAM WITH OWNER.
3. PUMP TO BE ALL BRONZE OR STAINLESS STEEL CONSTRUCTION RATED FOR DOMESTIC POTABLE WATER SERVICE.
4. PROVIDE A ON/OFF SWITCH ON WALL 48"AFF FOR PUMP CONTROL.

PLUMBING FIXTURE SCHEDULE-CONTINUED:

ES-1	PROVIDE A BRADLEY MODEL S19314B2DEEA COMBINATION DRENCH SHOWER AND EYEWASH SAFETY STATION OR EQUAL. ALL METAL PARTS TO BE STAINLESS STEEL. STATION TO INCLUDE, 1-1/4" TYPE 304 S.S. SCHEDULE 40 PIPE STAND/SUPPLY WITH FLOOR FLANGE, 1-1/4" TOP AND BOTTOM SUPPLY CONNECTIONS, 1-1/4" DRAIN OUTLET, TYPE 304 S.S. BOWL & DUST COVER WITH 5.1 GPM TYPE 304 S.S. HALO EYE/FACE WASH SYSTEM, 1/2" TYPE 316 S.S. STAY-OPEN EYE/FACE WASH BALL VALVE, TYPE 304 S.S. PUSH HANDLE THAT FLIPS OPEN DUST COVER & ACTIVATES EYE/FACE WASH, 22 GPM, TYPE 304 S.S. SHOWER HEAD, 1" TYPE 316 S.S. STAY-OPEN SHOWER BALL VALVE WITH TYPE 304 S.S. ACTUATING PULL ROD AND HANDLE. SECURELY MOUNT BOTTOM FLANGE TO FLOOR.
WHA	PROVIDE A WATTS MODEL 15M2 WATER HAMMER ARRESTOR OR EQUAL. ARRESTOR TO BE PISTON OR BELLOWS TYPE, SUITABLE FOR DOMESTIC POTABLE WATER, PDI LISTED AND SIZED PER PDI RECOMMENDATIONS.
OB-1	PROVIDE A GUY GRAY MODEL FRIB12S FIRE RATED RECESSED SUPPLY BOX WITH WALL FLANGE. FURNISH WITH 1/2" X 1/4" QUARTER TURN ANGLE VALVE. SUPPLY BOX DIMENSIONS TO BE A MAXIMUM 6" x 6". ON THE LEAVING SIDE OF THE VALVE, PROVIDE A 4 FOOT COIL OF ROLL TYPE "K" SOFT COPPER. MOUNT BOX BEHIND EQUIPMENT, COORDINATE MOUNTING HEIGHT WITH EQUIPMENT PRIOR TO ROUGH-IN. PROVIDE A WATTS MODEL SD-3 BACKFLOW PREVENTER ON OUTLET SIDE OF OUTLET BOX PRIOR TO CONNECTING TO EQUIPMENT.
OB-2	PROVIDE A GUY GRAY MODEL FR12S FIRE RATED RECESSED WASHING MACHINE OUTLET BOX WITH WALL FLANGE OR EQUAL. BOX TO BE WHITE POWDER COATED STEEL, 20 GAUGE BOX AND 20 GAUGE FACEPLATE, WATERTIGHT CONSTRUCTION WITH SLOPED BOTTOM. FURNISH WITH 1/2" X 1/4" QUARTER TURN ANGLE VALVES. MOUNT BOX BEHIND EQUIPMENT, COORDINATE MOUNTING HEIGHT WITH EQUIPMENT PRIOR TO ROUGH-IN. PLUG DRAIN OPENING WATER TIGHT. CONTRACTOR TO MAKE THE FINAL CONNECTION TO THE EQUIPMENT.
OB-3	PROVIDE A GUY GRAY MODEL 82688 DIALYSIS RECESSED SUPPLY BOX WITH WALL FLANGE. BOX TO BE 16 GAUGE STAINLESS STEEL WITH ONE VALVE, 2" OD DRAIN AND LESS DOOR. FURNISH WITH 1/2" PVC VALVE WITH 3/4" HOSE CONNECTION OUTLET. MOUNT BOX BEHIND EQUIPMENT, COORDINATE MOUNTING HEIGHT WITH EQUIPMENT PRIOR TO ROUGH-IN. PLUG DRAIN OPENING WATER TIGHT. CONTRACTOR TO MAKE THE FINAL CONNECTION TO THE EQUIPMENT.
TP-1	PROVIDE A PRECISION PLUMBING PRODUCTS MODEL PRO1-ULP500 OR EQUAL. TRAP PRIMER TO BE INLINE, FLOW ACTIVATED AND CHROME PLATED ALL BRASS CONSTRUCTION. MOUNT UNDER LAVATORY ON COLD WATER INLET PIPING A MINIMUM OF 12" AFF. PROVIDE A PRECISION PLUMBING PRODUCTS DISTRIBUTION UNIT MODEL DU-U FOR PRIMING 2 TO 4 TRAPS.

GENERAL PLUMBING NOTES

THESE GENERAL NOTES APPLY TO THE CONTRACTOR HOLDING THE GENERAL CONTRACT AS WELL AS ALL OTHER SUB CONTRACTORS AND AGENTS REQUIRED TO PERFORM WORK ON THIS PROJECT.

1. TOMAHAWK ENGINEERING AND CONSULTING, INC. SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.
2. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND SERVICES. CHANGES IN PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS AND/OR PROJECT CONDITIONS.
3. THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER IN RESPONSIBLE CHARGE FOR THE GIVEN DISCIPLINE.
4. CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.
5. ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD.
6. WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF $750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT APPLY TO UNFORESEEN CONDITIONS OR CHANGES REQUIRED FOR THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR.
7. DRAWINGS ARE DIAGRAMMATIC IN NATURE. PIPING SIZES, PIPING INVERTS, EQUIPMENT DIMENSIONS, MOUNTING HEIGHTS AND GENERAL ARRANGEMENT SHALL BE FIELD MEASURED AND VERIFIED PRIOR TO PROCUREMENT. ALL FITTINGS MAY NOT BE SHOWN. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS, TAPS FOR EXISTING SANITARY AND DOMESTIC PRESSURE PIPING, TRANSITIONS, FLEXIBLE CONNECTORS, VALVES, LABOR, OR ANY OTHER WORK INDICATED OR IMPLIED FOR A FULLY FUNCTIONAL SYSTEM.
8. WHERE APPLICABLE AND AVAILABLE, ACTUAL EQUIPMENT DRAWINGS ARE USED FOR SYMBOLS ON PLAN VIEWS AND IN DETAILS. HOWEVER, SIMPLE BLOCK DIAGRAMS WITH ESTIMATED DIMENSIONS ARE ALSO USED FOR PLAN VIEWS. WHERE EQUIPMENT OR DEVICES ARE NOT LABELED, INDUSTRY STANDARD TERMINOLOGY AND SYMBOLOGY SHALL APPLY.
9. THE CONTRACTOR SHALL MAKE HIS OR HERSELF AWARE OF THE OWNER'S SCHEDULE AND BE PREPARED TO WORK AT NIGHT OR ON WEEKENDS TO COMPLETE WORK SHOWN IN THESE DOCUMENTS. INTERRUPTIONS TO OWNER'S NORMAL WORK SCHEDULE SHALL NOT BE MADE WITHOUT WRITTEN INSTRUCTION TO DO SO FROM OWNER'S REPRESENTATIVE.
10. FOR EQUIPMENT DEMOLISHED UNDER THIS CONTRACT, THE CONTRACTOR SHALL ALLOW THE OWNER FIRST REFUSAL OF DEMOLISHED EQUIPMENT. IF EQUIPMENT IS REFUSED, THE CONTRACTOR SHALL DISPOSE OF DEMOLISHED EQUIPMENT IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. IN ADDITION, FOR EQUIPMENT INDICATED TO BE DEMOLISHED, THE CONTRACTOR SHALL ASSUME THAT THIS ALSO REQUIRES DEMOLITION OF ALL ASSOCIATED APPURTENANCES INCLUDING ELECTRICAL CONNECTIONS, CONTROLS CONNECTIONS, ETC.
11. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO PROVIDE THE OWNER WITH A COMPLETE, FULLY OPERATIONAL SYSTEM. WORK AND COMPONENTS NOT INDICATED BUT IMPLIED SHALL BE PROVIDED AND BE PART OF THE CONTRACT. THE CONTRACTOR SHALL GUARANTY ALL LABOR AND EQUIPMENT ASSOCIATED WITH PROJECT FOR A MINIMUM OF 1-YEAR.
12. THE CONTRACTOR SHALL PROVIDE ALL CORES AND SAW CUTS FOR WALLS AND FLOORS AS REQUIRED TO INSTALL PIPING AND SERVICES AS INDICATED ON THESE DOCUMENTS. WHERE BUILDING SERVICES PENETRATE EXTERIOR WALL, SLEEVE AND SEAL WATER AND WEATHER TIGHT. THE CONTRACTOR SHALL MAKE THEMSELVES FAMILIAR WITH THE BUILDING SITE PRIOR TO PROVIDING A BID. EXTRAS FOR NOT FULLY UNDERSTANDING THE EXISTING CONDITIONS OR THIS SET OF DOCUMENTS WILL NOT BE GIVEN.
13. WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2023 AND ANY OTHER APPLICABLE STATE, LOCAL, AND/OR FEDERAL CODES AND LAWS. WORK SHALL CONFORM IN PARTICULAR WITH CHAPTER 449, HOSPITALS.
14. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AND IS ALSO RESPONSIBLE FOR ALL ASSOCIATED FEES FOR SAID PERMITS AND INSPECTIONS.
15. SOME PIPING MAY BE LOCATED IN WALLS THAT ARE NOT ACCESSIBLE. THE CONTRACTOR SHALL INCLUDE IN THEIR COSTS, THE CUTTING AND PATCHING OF WALLS TO ACCESS PIPING AS REQUIRED TO MAKE TIE-IN'S AS INDICATED HEREIN.
16. THE CONTRACTOR IS RESPONSIBLE FOR THE ENTIRE SITE DURING CONSTRUCTION ACTIVITIES. AS SUCH, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIONS AS REQUIRED BY LAW OR OWNER REQUIREMENTS. ANY DAMAGE DONE BY THE CONTRACTOR OR SUB OF SAID CONTRACTOR SHALL BE REPAIRED AT NO COST TO THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL BUILDING CONSTRUCTION AND ALL EQUIPMENT LOCATED WITHIN THE BUILDING OR ON SITE PREMISES.
17. WORK SHALL BE CARRIED OUT IN A NEAT WORKMAN LIKE MANNER. ALL CONSTRUCTION DEBRIS SHALL BE CLEANED UP AT THE END OF EVERY WORK DAY AND ALL CONSTRUCTION DUST SHALL BE VACUUMED UP AT THE END OF EVERY WORK DAY.
18. UNLESS NOTED OTHERWISE, ALL MATERIALS, EQUIPMENT, PIPING, FIXTURES, WIRING, CABLING, AND OTHER DEVICES REQUIRED FOR COMPLETION OF PROJECT SHALL BE NEW.
19. IN GENERAL, ITEMS SHOWN ON DRAWINGS LIGHTLY COMPARED TO OTHER COMPONENTS ARE EXISTING. WHERE ITEMS ARE NOT INDICATED EXPLICITLY TO BE DEMOLISHED, IT SHALL BE ASSUMED THAT THEY ARE TO REMAIN.
20. (2) COPIES OF OPERATION AND MAINTENANCE MANUALS FOR MATERIALS AND EQUIPMENT SHALL BE PROVIDED TO THE OWNER AT PROJECT COMPLETION.
21. THE CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR EXAMINING DRAWINGS (ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, STRUCTURAL AND CIVIL) AND ACTUAL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. EXTRAS WILL NOT BE GIVEN DUE TO FAILURE TO UNDERSTAND ALL CONDITIONS INVOLVED OR DISCREPANCIES BETWEEN ACTUAL DIMENSIONS AND CONDITIONS AND DIMENSIONS AND CONDITIONS INDICATED ON PLANS. WORK SHALL BE MODIFIED AND PROVIDED AS REQUIRED BY FIELD CONDITIONS AND THIS ADDITIONAL WORK SHALL BE CARRIED OUT AT NO COST TO THE OWNER.
22. EQUIPMENT AND FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND STANDARD INDUSTRY PRACTICES. WHERE DISCREPANCIES BETWEEN CONTRACT DRAWINGS AND MANUFACTURER'S REQUIREMENTS ARISE, REQUEST CLARIFICATION FROM ENGINEER.
23. PRIOR TO START-UP, PERFORM MANUFACTURER'S START-UP AND CHECKOUT PROCEDURES AND ATTACH FORMS TO OPERATION AND MAINTENANCE MANUALS.
24. WHERE BUILDING SERVICES ARE DEMOLISHED, PATCH AND PAINT OPENINGS TO MATCH EXISTING CONSTRUCTION AND NEW FINISHES.
25. PROVIDE ACCESS DOORS FOR EQUIPMENT, DAMPERS, ETC. LOCATED ABOVE GYPSUM CEILINGS OR WITHIN WALLS REQUIRING ACCESS. DOOR SIZES SHALL SUIT EQUIPMENT SERVED.
26. TRAP PRIMERS TO BE PROVIDED ON ALL FLOOR DRAINS AND WHERE INDICATED ON FLOOR SINKS.
27. REFER TO MECHANICAL DETAILS AND VENDOR DRAWINGS FOR FURTHER INFORMATION REGARDING INSTALLATION AND CONNECTION OF VENDOR PROVIDED EQUIPMENT. CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL, LEAK FREE INSTALLATION.
28. MEDICAL GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 99. MEDICAL GAS AND VACUUM SHALL BE HARD DRAWN SEAMLESS COPPER TUBING ASTM B 819, WITH SERVICE MARKED CLEARLY ON THE PIPING, FROM THE MANUFACTURER. VALVES SHALL BE QUARTER TURN, FULL PORT, BRASS OR BRONZE BALL VALVES WITH EXTENSIONS FOR BRAZING. PIPING SHALL BE LABELED AND COLOR CODED IN ACCORDANCE WITH TABLE 5.1.11 OF NFPA 99. PROVIDE A MED GAS CERTIFICATION REPORT PRIOR TO SUBSTANTIAL COMPLETION OF PROJECT.
29. MEDICAL GAS PIPING SHALL BE CLEANED, PURGED, AND CAPPED PRIOR TO BEING SHIPPED TO SITE. ALL MEDICAL GAS PIPING SHALL BE CLEANED IN ACCORDANCE WITH NFPA 99 PRIOR TO INSTALLATION. MEDICAL GAS AND VACUUM PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH NFPA 99. PROVIDE DIELECTRIC ISOLATORS FOR SUPPORT AS DESCRIBED THEREIN.
30. PROVIDE A MEDICAL GAS REPORT AT PROJECT COMPLETION ACCORDING TO NFPA REQUIREMENTS.
31. STRICTLY ADHERE TO ANY ICRA GUIDELINES IN PLACE FOR THE HOSPITAL.
32. CONTRACTOR SHALL COORDINATE WITH HOSPITAL PERSONNEL ANY REQUIRED SHUTDOWN OF A MEDICAL GAS SYSTEM AND OBTAIN WRITTEN APPROVAL FROM HOSPITAL FACILITIES PRIOR TO SHUTTING DOWN SYSTEM.

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Tomahawk Project #: 24002

Tallahassee Memorial HealthCare

P.O.B. II THIRD FLOOR: SINGLE DAY SUGERY RENOVATION

AHCA LOG No.: 23/100135-000

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WESLEY H. THIGPEN JR.
LICENSE No. 65705
STATE OF FLORIDA
EXPIRES 02-28-25
PROFESSIONAL ENGINEER

RICHARD LINDBURG
PE#: 62829
WESLEY THIGPEN, JR
PE#: 65705

SUBMITTAL

PHASE	DATE	DRAWN	CHECK
SCHEMATICS	02/26/24	-	-
AHCA STAGE II 100% DD	05/31/24	TKE	WHT
50% CD's	07/03/24	TKE	WHT
100% OWNER REVIEW	08/16/24	TKE	WHT
AHCA STAGE III	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE
LEGEND, NOTES & SCHEDULES - PLUMBING

P0.1

MEDICAL GAS FIXTURE SCHEDULE:

MGO	MEDICAL GAS WALL OUTLET THE QUICK CONNECT RECESSED OUTLETS SHALL BE SUITABLE FOR THE SERVICES LISTED BELOW. OUTLETS SHALL CONSIST OF A ROUGHING IN ASSEMBLY AND A FINISHED ASSEMBLY. THE ROUGHING IN ASSEMBLY SHALL CONSIST OF A DIE-CAST BACK PLATE WITH MOUNTING FLANGES ON ALL FOUR SIDES, A RAISED PLASTER STRIKE, AND A NON - REMOVABLE POSITIVE PIN-KEYING ARRANGEMENT FOR EACH SPECIFIC GAS SERVICE. IDENTIFICATION OF EACH GAS SERVICE SHALL BE PERMANENTLY CAST INTO THE BACK PLATE AND CAN BE READ THROUGH A TRANSPARENT PLASTIC PLASTER GUARD. MOUNTED TO THE BACK PLATE IS A FULLY ASSEMBLED BRASS SECONDARY CHECK THAT IS COMPLETELY SERVICEABLE FROM THE FRONT. THE CHECK PREVENTS A GAS FLOW WHEN THE FINISHING ASSEMBLY IS REMOVED FOR MAINTENANCE OR SERVICE. THE SECONDARY CHECK VALVE INCLUDES 7-INCHES OF 3/8-INCH O.D. TYPE K COPPER INLET TUBE WITH A LABEL IDENTIFYING THE SPECIFIC GAS BY NAME AND COLOR AND A PLASTIC DUST CAP. ROTATION OF THE INLET TUBE SHALL ALLOW GAS CONNECTION FROM THE TOP OR BOTTOM. THE FINISH ASSEMBLY SHALL CONSIST OF A STAINLESS STEEL FINISH PLATE, A DIE-CAST CHROME PLATED COVER PLATE, A MACHINED BRASS HOUSING FOR THE PRIMARY CHECK VALVE , THE SECONDARY CHECK VALVE, AND POSITIVE PIN-KEYING DEVICES TO PREVENT ACCIDENTAL INSTALLATION INTO A ROUGHING-IN ASSEMBLY OF A DISSIMILAR GAS. THE FINISHING ASSEMBLY SHALL INCORPORATE A DOUBLE SEAL WHICH AUTOMATICALLY ENGAGES WHEN A HOSE ADAPTER OR PATIENT TREATMENT DEVICE IS REMOVED FROM THE OUTLET. THE FINISHING ASSEMBLY SHALL BE DESIGNED IN ACCORDANCE WITH CGA V-5 STANDARD FOR DIAMETER INDEX SAFETY SYSTEM. THE EXPOSED PORTION OF QUICK CONNECT OUTLET CONNECTION SHALL BE POLISHED CHROME PLATE. GAS SERVICE COMPLETE ASSEMBLY BASIS OF DESIGN AMICO (OHMEDA COMPATIBLE, VERIFY HOSPITAL COMPATIBILITY PRIOR TO ORDERING) MGO-O: OXYGEN - O-QDWAL-U-OXY (PROVIDE 1/2"O) MGO-A: AIR - O-QDWAL-U-AIR (PROVIDE 1/2"A) MGO-V: VACUUM - O-QDWAL-U-VAC (PROVIDE 3/4"V) MGO-W: WASTE ANESTHETIC GAS DISPOSAL - O-QDWAL-U-WAG (PROVIDE 3/4"WAGD) MGO-S: VACUUM SLIDE - O-WALSLIDE (PROVIDE 1 SLIDE FOR EACH VACUUM AND WAGD OUTLET)
MGV-1	MEDICAL GAS VALVE BOX THE VALVE BOX SHALL BE CONSTRUCTED OF 18 GAUGE STEEL WITH A BAKED WHITE ENAMEL FINISH. THE DOOR FRAME ASSEMBLY SHALL BE CONSTRUCTED OF ANODIZED ALUMINUM. CONCEALED MOUNTING SCREWS SHALL SECURE THE FINISH FRAME TO THE VALVE BOX. THE TRANSPARENT WINDOW SHALL BE EASILY REMOVED OR REPLACED WITHOUT THE AIDS OF TOOLS. THE WINDOW SHALL BE MARKED PER NFPA 99 REQUIREMENTS. VALVES TO BE 3 PIECE BALL TYPE VALVES WITH BRONZE BODY, A CHROME PLATED BRASS OR STAINLESS STEEL BALL AND BLOW-OUT PROOF STEM. THE VALVE SHALL HAVE A MINIMUM PRESSURE RATING OF 600 P.S.I.. THE VINYL-COATED HANDLE SHALL ONLY REQUIRE ONE QUARTER OF A TURN TO COMPLETELY OPEN OR CLOSE THE VALVE. THE VALVE WITH TUBING EXTENSIONS SHALL BE FACTORY BRAZED, PRESSURE TESTED, CLEANED FOR OXYGEN SERVICE AND CAPPED. A LABEL SHALL BE AFFIXED TO EACH VALVE AND BOTH TUBE EXTENSIONS IDENTIFYING THE GAS BY NAME AND COLOR. PRESSURE/VACUUM GAUGE(S) TO BE PROVIDED FOR EACH GAS & VACUUM: O & A (0-100 PSIG FOR O & A), AND VAC (0-30 INCHES HG), REFER TO DRAWINGS FOR GAS TYPES REQUIRED. SEE PLAN FOR VALVE SIZES & QUANTITIES REQUIRED. BASIS OF DESIGN AMICO ALERT-1 SERIES MODEL - VBE-M
MGM	MEDICAL GAS MANIFOLD THE MEDICAL GAS MANIFOLD SHALL BE A DIGITAL, FULLY AUTOMATIC TYPE AND SHALL SWITCH FROM "BANK IN USE" TO "RESERVE" BANK WITHOUT FLUCTUATION IN DELIVERY SUPPLY LINE PRESSURE AND WITHOUT THE NEED FOR EXTERNAL POWER. AFTER THE SWITCH-OVER, THE "RESERVE" BANK SHALL THEN BECOME THE "BANK IN USE" AND THE "BANK IN USE" SHALL BECOME THE "RESERVE" BANK. THE MANIFOLD SHALL HAVE A MICROPROCESSOR BASED DIGITAL DISPLAY PANEL AND REQUIRE 120V. CONTROL PANEL TO HAVE THREE LARGE, RED, ILLUMINATED LED DISPLAYS FOR THE LEFT BANK, THE RIGHT BANK AND FOR THE SUPPLY PRESSURE, AND LED'S FOR "BANK IN USE", "BANK READY" AND "BANK EMPTY". THE HEADER BARS TO BE EQUIPPED WITH EMERGENCY HIGH PRESSURE SHUTOFF VALVES OUTSIDE THE CABINET TO ALLOW FOR EMERGENCY ISOLATION OF THE HEADER BARS. THE HEADER BAR SHALL INCLUDE INTEGRAL CHECK VALVES FOR EACH STATION. PROVIDE HEADER BAR SUPPORT BRACKETS. THE MANIFOLD SHALL BE EQUIPPED WITH OUTLET SHUTOFF VALVE, LIMIT SWITCHES AND PRESSURE TRANSDUCERS FOR INDICATION AND FOR OPERATION OF THE FAIL-SAFE RELAY WHICH TRANSMITS A REMOTE NORMALLY CLOSED SIGNAL TO THE MASTER MEDICAL GAS ALARM. THE MANIFOLD SHALL INCLUDE TWO PRESSURE RELIEF VALVES, ONE HIGH PRESSURE 225 PSI AND ONE LOW PRESSURE 75 PSI FOR ALL GASES EXCEPT NITROGEN. NITROGEN HAS ONE HIGH PRESSURE RELIEF VALVE AT 350 PSI AND ONE LOW PRESSURE AT 225 PSI. THE MANIFOLD TO BE UL LISTED. ALL MANIFOLD REGULATORS, PIPING AND CONTROL SWITCHING EQUIPMENT SHALL BE CLEANED FOR OXYGEN SERVICE AND INSTALLED INSIDE THE CABINET TO MINIMIZE TAMPERING WITH THE REGULATORS OR SWITCH SETTINGS. PROVIDE MANUFACTURES RECOMMENDED WALL BRACKET WHICH ALLOWS FOR STAGGERED HEADER BAR INSTALLATION. PROVIDE HEADER BAR SUPPORT BRACKETS AS REQUIRED BY MANUFACTURE. BASIS OF DESIGN AMICO ALERT-2 HEAVY DUTY SERIES
AP-1	ALARM PANEL THE AREA ALARM PANEL SHALL BE A DIGITAL LCD ALARM SYSTEM EQUAL TO AN AMICO ALERT-3 SERIES, COMPLETE WITH A FIVE-YEAR WARRANTY. THE LCD ALARM SHALL BE MICROPROCESSOR BASED, WITH A MINIMUM OF A 10" SCREEN. THE SENSORS SHALL BE CAPABLE OF LOCAL (IN BOX UP TO 8 SENSORS) OR REMOTE MOUNTING (UP TO 8 SENSORS). SENSORS WILL BE AUTOMATED FOR GAS SPECIFIC DETECTION. EACH SPECIFIC SERVICE SHALL BE PROVIDED WITH A DIGITAL READ- OUT COMPRISING OF 0-249 PSI FOR PRESSURE AND 0-30"HG FOR VACUUM. THE DIGITAL READ-OUT SHALL PROVIDE A CONSTANT INDICATION OF EACH SERVICE BEING MEASURED. AN INDICATOR SHALL BE PROVIDED FOR EACH SERVICE INDICATING A GREEN "NORMAL" AND A RED "HIGH" OR "LOW" ALARM CONDITION. IF AN ALARM OCCURS, THE GREEN INDICATOR WILL CHANGE TO RED AND A CONTINUOUS AUDIBLE ALARM WILL SOUND. PUSHING THE (MUTE BUTTON/PUSH TO TEST BUTTON) WILL CANCEL THE AUDIBLE ALARM, BUT THE UNIT WILL REMAIN IN THE ALARM CONDITION UNTIL THE PROBLEM IS RECTIFIED. THE BOX SHALL BE FABRICATED FROM 18 GAUGE STEEL WITH A 3/8" O.D. TYPE "K" COPPER PIPE FOR CONNECTION TO THE SERVICE LINE. THE BOX MOUNTING BRACKETS SHALL BE ADJUSTABLE TO ACCOMMODATE FOR DIFFERENT WALL THICKNESS. INPUT POWER: 115-220 VAC, 50-60 HZ. THE ALARM PANEL TO BE LISTED TO UL 1069 AND CSA C22.2 NO 205. BASIS OF DESIGN AMICO 3-MODULE AREA ALARM PANEL - A3AR-U-OAV (1 OXYGEN, 1 AIR & 1 VACUUM)
MAP	MASTER ALARM PANEL THE MASTER ALARM PANEL SHALL BE A MICROPROCESSOR BASED ALARM PANEL WITH UP TO 60 FUNCTIONS, LED ALARM LIGHTS, SELF DIAGNOSTIC CIRCUITRY, 90 + DECIBEL ALARM BUZZER, CAPABLE OF INTERFACING WITH BUILDING MANAGEMENT SYSTEM AND COMPLETE WITH A FIVE-YEAR WARRANTY. EACH MODULE TO CONTAIN 10 FUNCTIONS WITH A MAXIMUM OF 6 MODULES. AN INDICATOR SHALL BE PROVIDED FOR EACH SIGNAL INDICATING A GREEN "NORMAL" AND A RED FOR "ABNORMAL" CONDITION. IF AN ALARM OCCURS, THE GREEN LED WILL TURN OFF AND THE RED LED WITH TURN ON AND A CONTINUOUS AUDIBLE ALARM WILL SOUND. PUSHING THE (MUTE BUTTON/PUSH TO TEST BUTTON) WILL CANCEL THE AUDIBLE ALARM, BUT THE UNIT WILL REMAIN IN THE ALARM CONDITION UNTIL THE PROBLEM IS RECTIFIED. THE BOX SHALL BE FABRICATED FROM 18 GAUGE STEEL. THE BOX MOUNTING BRACKETS SHALL BE ADJUSTABLE TO ACCOMMODATE FOR DIFFERENT WALL THICKNESS. INPUT POWER: 115-220 VAC, 50-60 HZ. THE ALARM PANEL TO BE UL LISTED AND COMPLY WITH NFPA-99 AND CSA STANDARDS. PROVIDE A MINIMUM OF 3 MODULES (30 FUNCTIONS), COORDINATE FUNCTION QUANTITIES WITH BUILDING REQUIREMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: MAIN LINE PRESSURES FOR ALL GASES UTILIZED FOR OR'S, NITROGEN MANIFOLD REQUIREMENTS, NITROUS OXIDE MANIFOLD REQUIREMENTS AND LOCAL ALARM PANELS. BASIS OF DESIGN AMICO MASTER ALARM PANEL - A2M

MEDICAL GASES CERTIFICATION

1 THE MEDICAL GAS SYSTEM SUPPLIER AND CONTRACTORS SHALL SIGN MEDICAL GAS PIPELINE INSPECTION AGREEMENT DESCRIBING SERVICE TO BE PERFORMED BY THE MEDICAL GAS SYSTEM SUPPLIER OR AN INDEPENDENT CERTIFICATION AND SERVICE ORGANIZATION, SERVICES NOT PERFORMED BY THE MEDICAL GAS SYSTEM SUPPLIER, PRICE QUOTATION, AND EXCEPTIONS AFFECTING QUOTED PRICE.

2 THE MEDICAL GAS SUPPLIER OR INDEPENDENT CERTIFICATION AND SERVICE ORGANIZATION SHALL PROVIDE FACTORY TRAINED, QUALIFIED REPRESENTATIVES TO PERFORM PIPELINE INSPECTION AND TO PROVIDE REPORT AND CERTIFICATION IN ACCORDANCE WITH PREVIOUSLY SIGNED AGREEMENT FOR PIPING AND EQUIPMENT FURNISHED BY THE CONTRACTOR.

2.1 DISCREPANCIES DISCOVERED DURING THE INSPECTION SHALL BE NOTED, CORRECTED, AND ANY PORTIONS OF THE SYSTEM AFFECTED BY CORRECTIVE ACTION SHALL BE RETESTED AND FINDINGS RECORDED AFTER RETEST.

3 CONTRACTOR SHALL PROVIDE REPRESENTATIVE WHO SHALL SERVE AS THE CUSTOMER CONTACT PERSON AND WHO SHALL WITNESS THE INSPECTION(S) AND CERTIFY ITEMS ON THE LIST FURNISHED BY THE CONTRACTOR HAVE BEEN CHECKED AND IS IN ACCORDANCE WITH INSPECTION PROCEDURE AND FINDINGS AS WITNESSED.

4 THE BUILDING/HOSPITAL ENGINEERING DEPARTMENT SHALL PROVIDE A REPRESENTATIVE WHO SHALL WITNESS THE INSPECTION AND CERTIFY THAT ITEMS THEREIN LISTED ON THE LIST FURNISHED BY THE CONTRACTOR HAVE BEEN CHECKED IN ACCORDANCE WITH INSPECTION PROCEDURE.

5 THE MEDICAL GAS SYSTEM SUPPLIER OR AN INDEPENDENT CERTIFICATION AND SERVICE ORGANIZATION SHALL FURNISH CUSTOMER COPIES OF MEDICAL GAS PIPELINE INSPECTION REPORT AND MEDICAL GAS PIPELINE CERTIFICATION TO THE CONTRACTOR AND THEY SHALL BE DISTRIBUTED AS FOLLOWS:

5.1 BUILDING/HOSPITAL ADMINISTRATION.

5.2 BUILDING/HOSPITAL MAINTENANCE ENGINEER.

5.3 OWNER OR OWNERS REPRESENTATIVE.

5.4 ARCHITECT AND ENGINEER.

5.5 CONTRACTORS.

6 THE FOLLOWING PROCEDURE SHALL BE FOLLOWED IN ADDITION TO THE ABOVE:

6.1 OWNERS REPRESENTATIVE SHALL WITH ADEQUATE ADVANCE NOTICE, REQUEST THAT SYSTEM SUPPLIERS INSPECTOR OR INSPECTION TEAM BE ON-SITE WHEN OLD PIPING IS CUT-IN FOR INSTALLATION OF NEW LINES.

6.2 OWNERS REPRESENTATIVE AND SYSTEM SUPPLIERS REPRESENTATIVE SHALL ARRANGE TO HAVE INSPECTION TEAM ON-SITE WHEN THE EXISTING PIPING IS CUT INTO FOR INSTALLATION OF NEW LINES.

6.3 MAIN LINE SHUT-OFF VALVES SHALL BE INSTALLED IN NEW PIPING AS CLOSE AS POSSIBLE TO POINT TO CUT-IN TO PREVIOUSLY INSTALLED PIPING.

6.4 NOTE: FOLLOWING VERIFICATION OF PROPER LABELING OR PROPER GAS DISTRIBUTION OF PREVIOUSLY INSTALLED PIPING AFTER CUT-IN PROCEDURE, THE AFOREMENTIONED VALVES (ITEM 3) SHALL BE CONSIDERED THE "SOURCE" OF SUPPLY FOR THE NEW PIPING.

6.5 AFTER RE-ESTABLISHING PRESSURE IN EACH PREVIOUSLY INSTALLED SUPPLY LINE AFTER "CUT-IN", AT LEAST THE PREVIOUSLY INSTALLED OUTLETS FOR EACH GAS AND FOR EACH CUT-IN POINT SHALL BE OPENED TO ENSURE THAT THE PROPER GAS IS BEING DELIVERED. THE OUTLETS MUST BE THOSE MOST IMMEDIATELY "UPSTREAM" OF THE CUT-IN POINT. GAS SHOULD BE BLED TO ATMOSPHERE PRIOR TO ANALYZATION TO ENSURE PURGING FROM POINT OF CUT-IN TO TEST POINT.

7 THE PRESENCE OF THE DESIRED GAS SHALL BE CONFIRMED WITH THE USE OF AN ANALYZER DESIGNED TO MEASURE THE SPECIFIC GAS DISPENSED, AND A PRESSURE GAUGE ATTACHED TO AN APPROPRIATE ADAPTOR WITH CORRECT RESULTS TABULATED AS FOLLOWS:

7.1

GAS	CONCENTRATION	PRESSURE
OXYGEN (MO)	99-100%	50 TO 55 PSI
MEDICAL AIR (MA)	19.5 - 23.5%	50 TO 55 PSI
MEDICAL VACUUM (MV)	0%	15" TO 30" HgV
NITROUS OXIDE (N2O)	99-100%	50 TO 55 PSI
NITROGEN (N)	≤1% OXYGEN OR ≥99% NITROGEN	160 TO 185 PSI

MEDICAL GAS MODIFICATION OR ISOLATION PROCEDURES

1 IN ADDITION TO OTHER REQUIREMENTS CONCERNING MEDICAL GAS SHUT DOWNS AND TIE-INS FOUND WITHIN THESE DOCUMENTS, THE FOLLOWING PROCEDURES SHALL BE USED TO ENSURE THAT THE SYSTEM TO BE ALTERED DOES NOT AFFECT OTHER AREAS OF THE HOSPITAL UNKNOWN TO THE OWNER, DESIGNERS, AND CONSTRUCTION TEAMS. WHERE ADDITIONAL TIME IS REQUIRED BY THE MEDICAL GAS CONTRACTOR(S) OR MEDICAL GAS SUPPLIER(S), TIME SHALL BE PROVIDED AND REFLECTED IN THEIR BIDS.

2 THE CONTRACTOR SHALL OBTAIN THE WRITTEN RISK ASSESSMENT AS PERFORMED BY THE FACILITY REGARDING THE PROJECT DETAILED HEREIN. WHERE A RISK ASSESSMENT HAS NOT BEEN PERFORMED, THE CONTRACTOR SHALL REQUEST AN ASSESSMENT WITH INPUT INCLUDED FROM THE FOLLOWING HOSPITAL PERSONNEL:

2.1 HOSPITAL PROJECT MANAGER.

2.2 HOSPITAL DEPARTMENT HEADS.

2.3 HOSPITAL ICRA CONTROL OFFICER.

2.4 HOSPITAL FACILITIES MAINTENANCE MANAGER.

2.5 HOSPITAL MEDICAL GAS MAINTENANCE MANAGER.

THE RISK ASSESSMENT SHALL DETERMINE THE RISK CATEGORY AS DEFINED BY NFPA 99, CHAPTER 4, AS A CATEGORY 1, CATEGORY 2, CATEGORY 3, OR CATEGORY 4. ONCE RISK CATEGORY HAS BEEN ESTABLISHED AND ALL POTENTIAL DEPARTMENTS ALERTED AS TO THE PROJECT AND RISK EXPOSURES, THE SUPPLIER(S) AND CONTRACTOR(S) SHALL PROCEED WITH INSPECTION AND TESTING AS OUTLINED BELOW.

3 THE MEDICAL GAS SYSTEM SUPPLIER AND MEDICAL GAS CONTRACTOR(S) SHALL PROVIDE AN INITIAL INSPECTION AND TEST OF THE MEDICAL GAS SYSTEM TO BE ALTERED OR ISOLATED. THIS INSPECTION AND TEST SHALL INCLUDE (AT A MINIMUM) THE FOLLOWING:

3.1 REVIEW AND PROVIDE, UPON REQUEST, VERIFICATION THAT NFPA 99 CHAPTER 5, SECTIONS 1.12 THRU 1.14 ARE BEING MET.

3.2 COORDINATE WITH AND DETERMINE PROPOSED ISOLATION VALVE POINTS WITH HOSPITAL MAINTENANCE PERSONNEL.

3.3 SCHEDULE TEST OF MEDICAL GAS SYSTEM WITH DEPARTMENT HEADS, HOSPITAL MAINTENANCE PERSONNEL, AND ICRA CONTROL OFFICER.

3.4 INSPECT CONDITION OF PROPOSED ISOLATION VALVES AND PROPOSED LOCATIONS OF TIE-IN POINTS. WHERE CONDITIONS ARE FOUND TO BE UNSUITABLE, STOP WORK AND REPORT DEFICIENCIES TO CONSTRUCTION MANAGER AND ENGINEER OF RECORD.

3.5 WHERE TIE-IN POINTS AND VALVES HAVE BEEN DETERMINED SUITABLE, PROCEED WITH INITIAL TEST OF SHUT DOWN PROCEDURES.

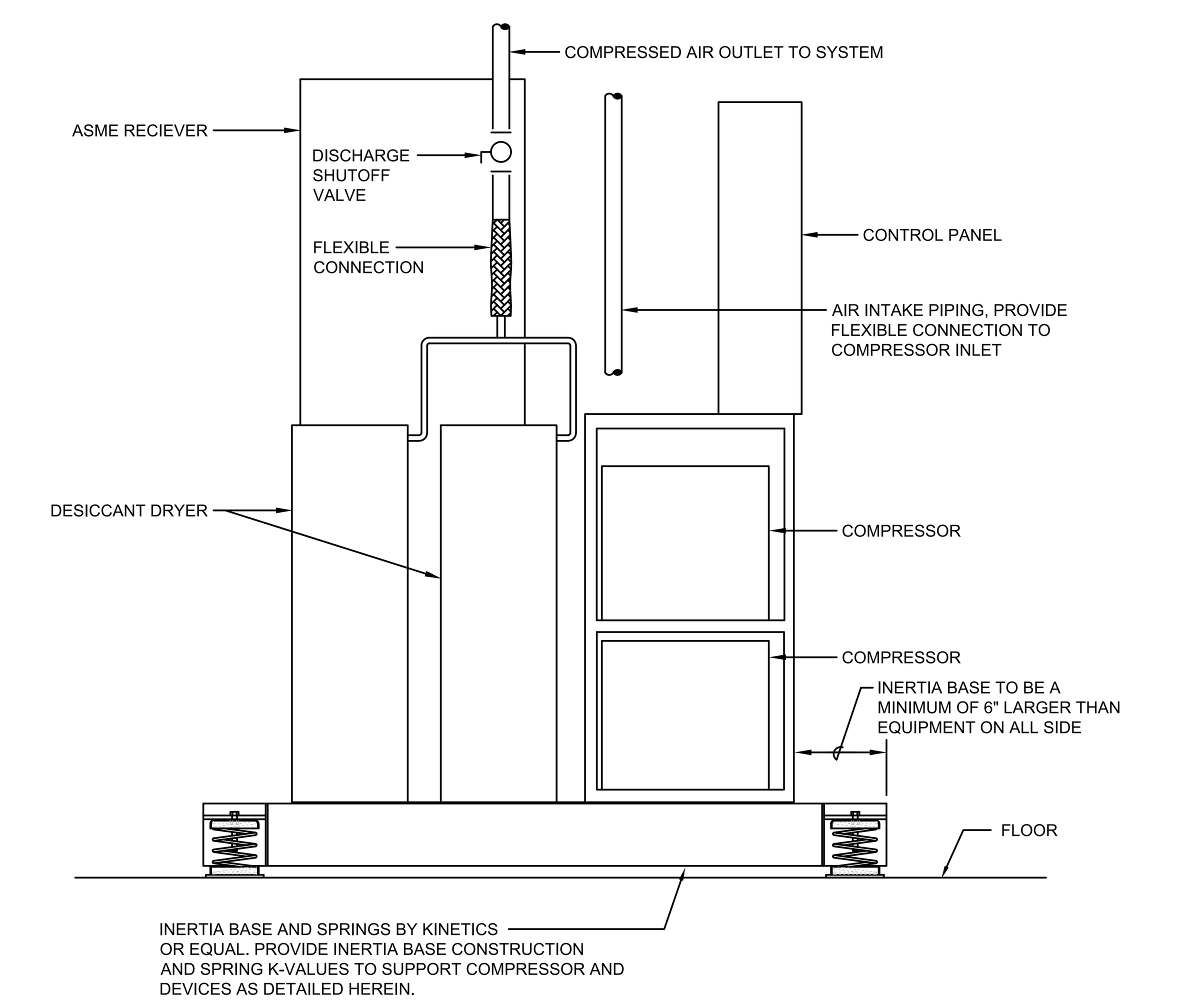
3.6 ALERT DEPARTMENT HEADS THAT A MEDICAL GAS SYSTEM TEST IS BEING PERFORMED. STATION HOSPITAL AND CONTRACTOR PERSONNEL AT AREA AND MAIN MEDICAL GAS PRESSURE ALARM STATIONS. PROVIDE WITH 2-WAY COMMUNICATION.

3.7 ISOLATE GAS SYSTEM(S) TO BE MODIFIED OR ISOLATED, ONE AT A TIME. RELIEVE PRESSURES ON GAS SYSTEM(S) TO BE MODIFIED. ENSURE THAT ONLY MEDICAL GAS ALARMS IN IMMEDIATE CONSTRUCTION AREA ALERTED. WHERE ADDITIONAL ALARM STATIONS ARE ALERTED WITHIN THE HOSPITAL, TURN GAS SYSTEM(S) BACK ON IMMEDIATELY.

3.8 WHERE ADDITIONAL ALARMS ARE GENERATED, WORK WITH HOSPITAL PERSONNEL TO PROVIDE TEMPORARY GASES FOR PERIOD OF TIME NEEDED TO PERFORM MEDICAL GAS SYSTEM(S) MODIFICATIONS. ONCE TEMPORARY GAS SERVICES HAVE BEEN ESTABLISHED AND ARE VERIFIED TO BE OPERATIONAL, COORDINATE WITH HOSPITAL STAFF AND PROCEED WITH NEEDED MEDICAL GAS SYSTEM(S) MODIFICATIONS OR ISOLATION.

4 ONCE SYSTEM MODIFICATIONS HAVE BEEN COMPLETED, THE SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 99 CHAPTER 5 SECTION 1.12 PRIOR TO BEING PLACED BACK IN SERVICE. ONCE ALL TESTING HAS BEEN COMPLETED AND CERTIFICATION REPORTS PROVIDED TO ALL GOVERNING AGENCIES AND THE HOSPITAL, THE SYSTEM MAY BE PLACED INTO SERVICE.

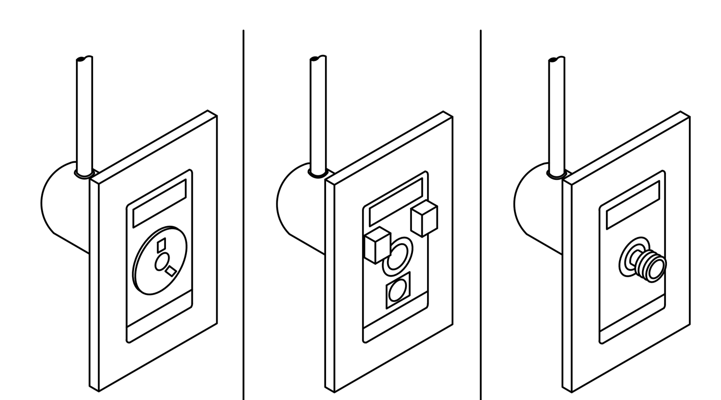
5 AFTER 48-HOURS OF SERVICE, WITHOUT INCIDENT, THE TEMPORARY MEDICAL GAS SERVICE(S) INDICATED IN SECTIONS 3.7 AND 3.8 ABOVE MAY BE REMOVED.



NOTES:

1. VALVES AND PIPING SPECIALTIES SHALL BE FULL LINE SIZE UNLESS NOTED OTHERWISE.
2. SUPPORT PIPING INDEPENDENTLY OF EQUIPMENT.
3. INERTIA BASE TO HAVE A MAXIMUM DEFLECTION OF 1".

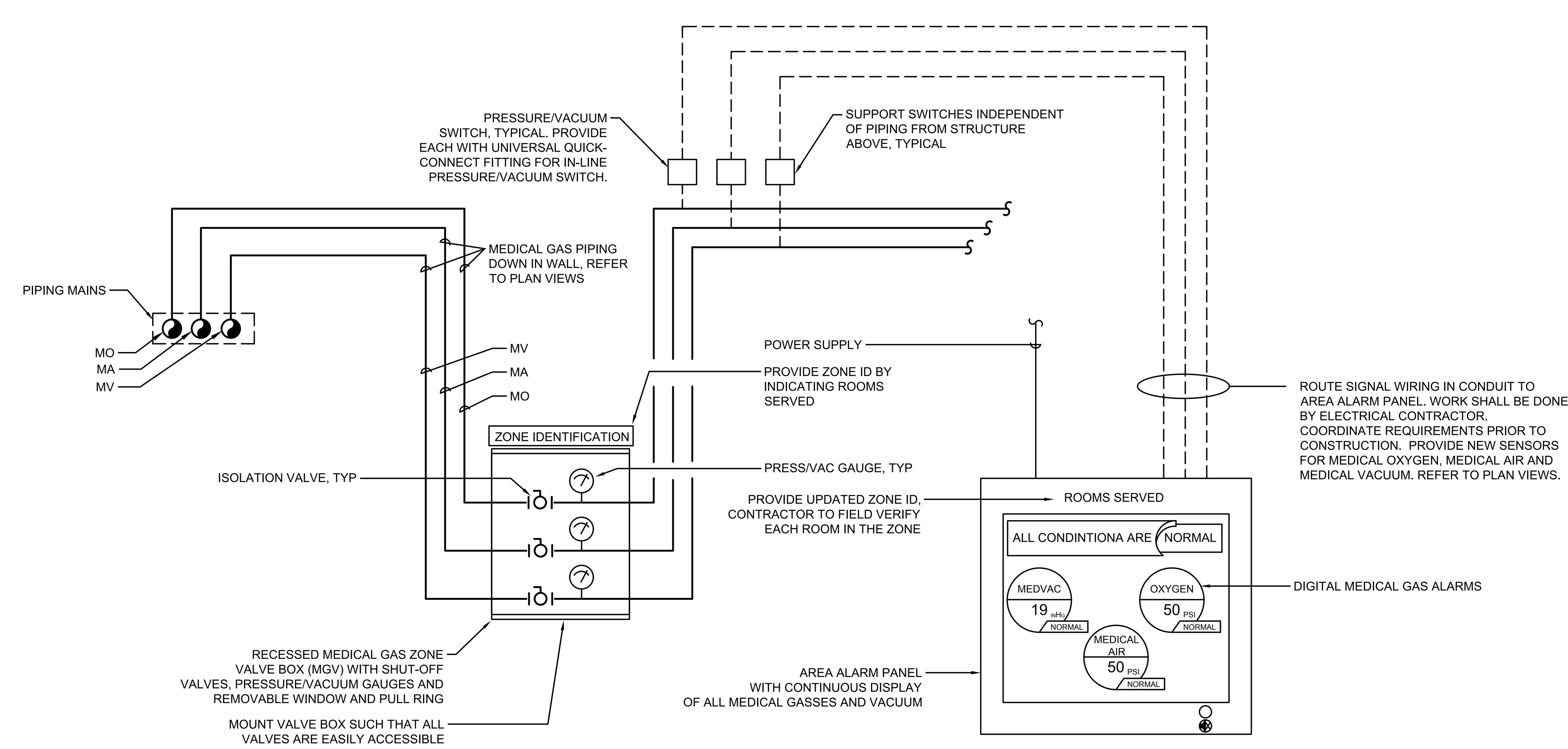
1 LAB AIR COMPRESSOR MOUNTING DETAIL — SCALE: NONE



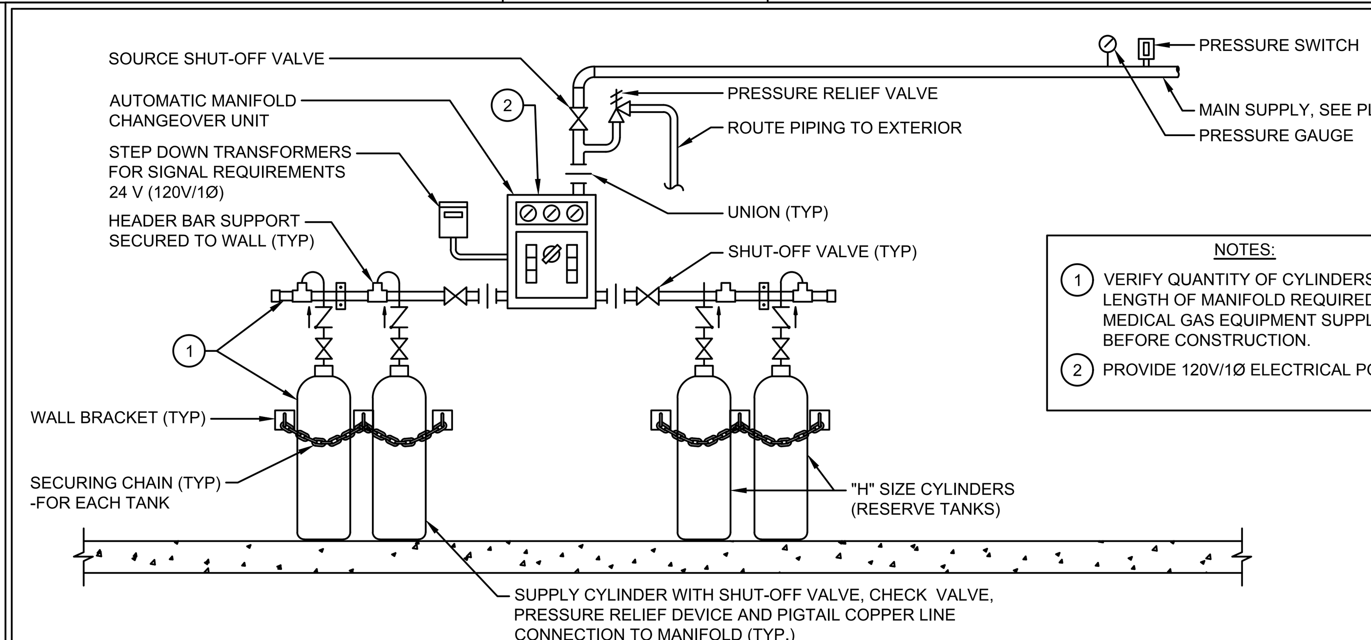
■ SPECIFIED TYPE OUTLET FOR PROJECT	□ DO NOT USE FOR THIS PROJECT	□ DO NOT USE FOR THIS PROJECT
OHMEDA DIAMOND COMPATIBLE OUTLET	CHEMETRON COMPATIBLE OUTLET	D.I.S.S. OUTLET

* MEDICAL GAS OUTLETS INDICATED ARE THE MOST COMMON TYPE OUTLETS IN HEALTHCARE FACILITIES: OTHER OUTLET TYPES INCLUDE PURITAN BENNETT QUICK CONNECT, SCHRADAER, ETC., FIELD VERIFY FACILITY STANDARD OUTLET TYPE BEFORE CONSTRUCTION. *

3 MEDICAL GAS OUTLET SELECTION DETAIL — SCALE: NONE



2 MEDICAL GAS ZONE VALVE AND ALARM PANEL DETAIL — SCALE: NONE



NOTES:

1. VERIFY QUANTITY OF CYLINDERS AND LENGTH OF MANIFOLD REQUIRED WITH MEDICAL GAS EQUIPMENT SUPPLIER BEFORE CONSTRUCTION.
2. PROVIDE 120V/1Ø ELECTRICAL POWER

4 MEDICAL GAS MANIFOLD SYSTEM DETAIL — SCALE: NONE

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Tomahawk Project #: 24002

Tallahassee Memorial HealthCare

P.O.B. II THIRD FLOOR: SINGLE DAY SUGERY RENOVATION
AHCA LOG No.: 23/100135-000

1405 CENTERVILLE RD. TALLAHASSEE, FL

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RICHARD LINDBURG
PE#: 62829
WESLEY THIGPEN, JR
PE#: 65705

SUBMITTAL

PHASE	DATE	DRAWN	CHECK
SCHEMATICS	02/26/24	-	-
AHCA STAGE II 100% DD	05/31/24	TKE	WHT
50% CD's	07/03/24	TKE	WHT
100% OWNER REVIEW	08/16/24	TKE	WHT
AHCA STAGE III	11/13/24	TKE	WHT

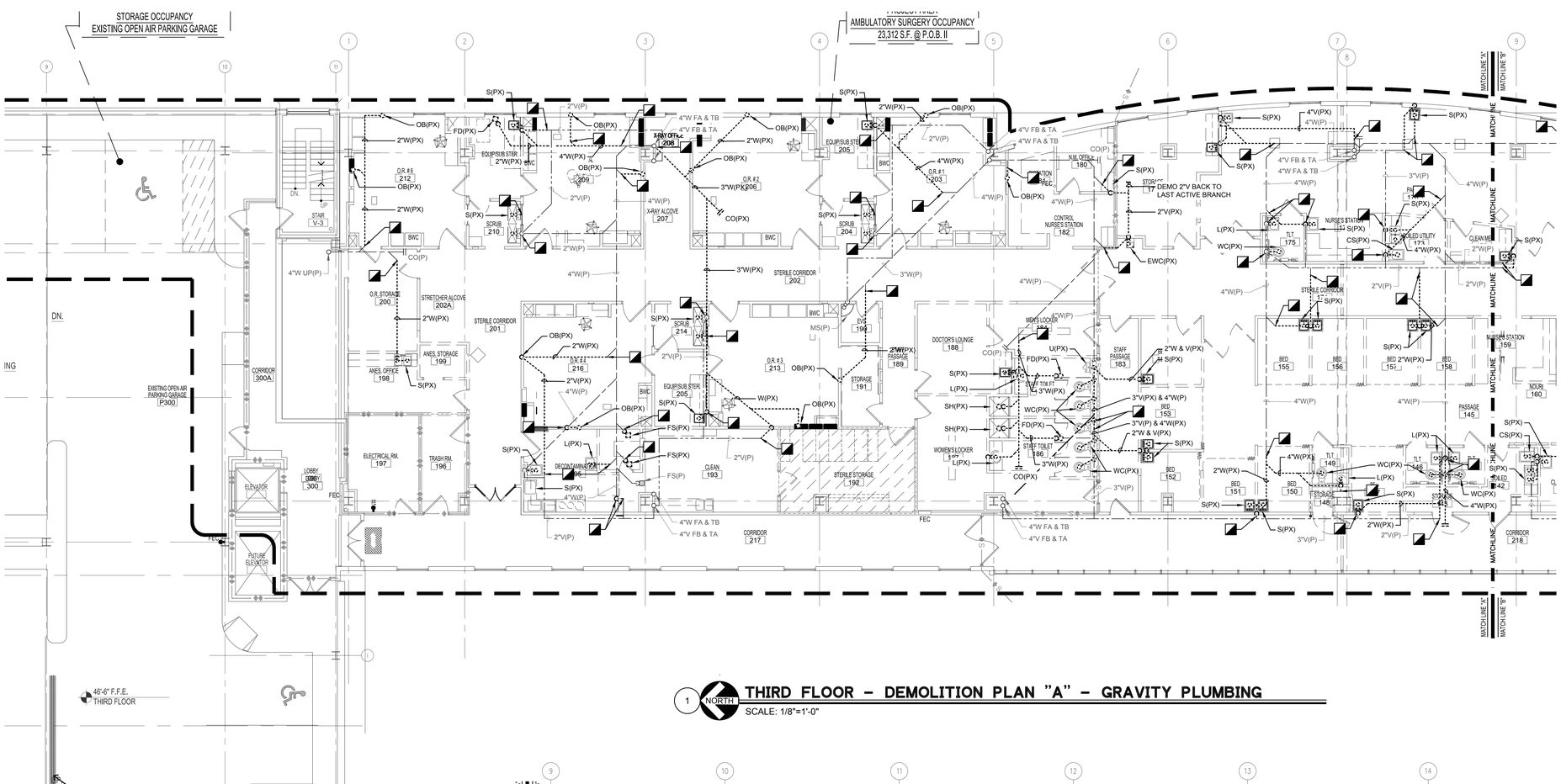
REVISIONS

#	DATE	COMMENTS

CRA PROJ.#: 23102
PHASE: 100% DESIGN DEVELOPMENT

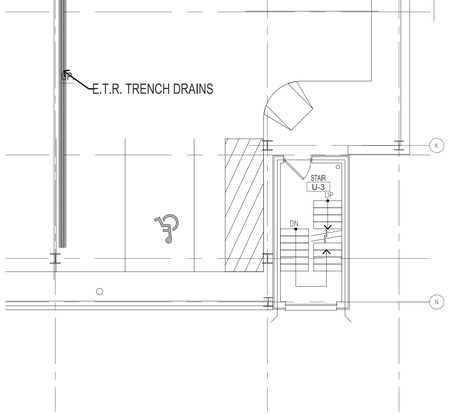
SHEET TITLE
SCHEDULES AND DETAILS - MEDICAL GAS

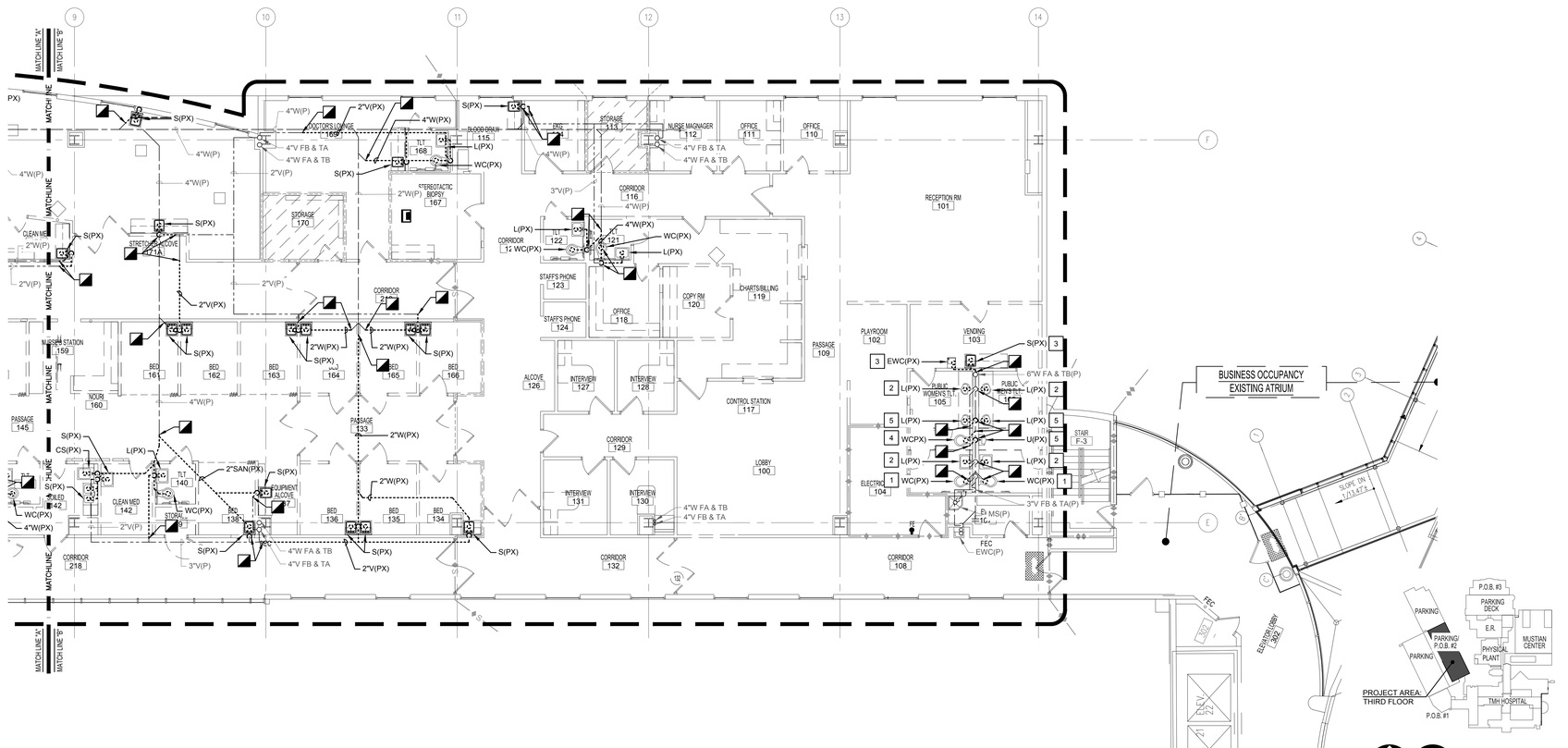
P0.2



1 NORTH **THIRD FLOOR - DEMOLITION PLAN "A" - GRAVITY PLUMBING**

SCALE: 1/8"=1'-0"





2 NORTH **THIRD FLOOR - DEMOLITION PLAN "B" - GRAVITY PLUMBING**

SCALE: 1/8"=1'-0"

SHEET DEMOLITION KEY NOTES:	
1	REMOVE FIXTURE AND TRIM. WASTE PIPING TO REMAIN TO CONNECT TO NEW FIXTURE IN SAME LOCATION. REFER TO RENOVATION PLAN FOR ADDITIONAL INFORMATION.
2	REMOVE FIXTURE AND TRIM. WASTE PIPING TO REMAIN TO CONNECT TO NEW FIXTURE IN SAME LOCATION. REFER TO RENOVATION PLAN FOR ADDITIONAL INFORMATION.
3	REMOVE FIXTURE AND TRIM. CAP WASTE PIPING IN WALL. PATCH WALL TO MATCH EXISTING AND NEW FINISHES.
4	REMOVE FIXTURE AND TRIM. CAP WASTE PIPING BELOW FLOOR. REFER TO RENOVATION PLAN FOR ADDITIONAL INFORMATION.
5	REMOVE FIXTURE AND TRIM. CAP WASTE PIPING IN CHASE. REFER TO RENOVATION PLAN FOR ADDITIONAL INFORMATION.
6	REMOVE FIXTURE AND TRIM. REMOVE WASTE PIPING BACK TO WALL AND PROVIDE A WALL CLEAN OUT. PATCH WALL TO MATCH EXISTING AND NEW FINISHES.

SHEET NOTES:

1. ALL EXISTING WASTE AND VENT PIPING BELOW FLOOR WHICH IS EXPOSED IN THE PARKING GARAGE SHALL BE REPLACED WITH THE SAME SIZE CAST IRON PIPING. THIS ONLY INCLUDE THE PIPING ON THE GARAGE FLOOR DIRECTLY BELOW THE 3RD FLOOR. ANY VERTICAL PIPING WHICH PENETRATES THE GARAGE FLOOR SHALL BE REPLACED TO WITH-IN 12" OF THE FLOOR.

WALL RATING LEGEND

- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
- ♦♦ — 2 HOUR FIRE
- ♦♦ S — 2 HOUR FIRE/SMOKE

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AHCA LOG No.: 23/100135-000

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50% CD's	07/03/24	TKE	WHT
100% OWNER REVIEW	08/16/24	TKE	WHT
AHCA SCHD II	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE

THIRD FLOOR - DEMOLITION PLANS - GRAVITY PLUMBING

PD1.1

NORTH PROJECT / NORTH ELEVATION **KEY PLAN** N.T.S.

SHEET DEMOLITION KEY NOTES:	
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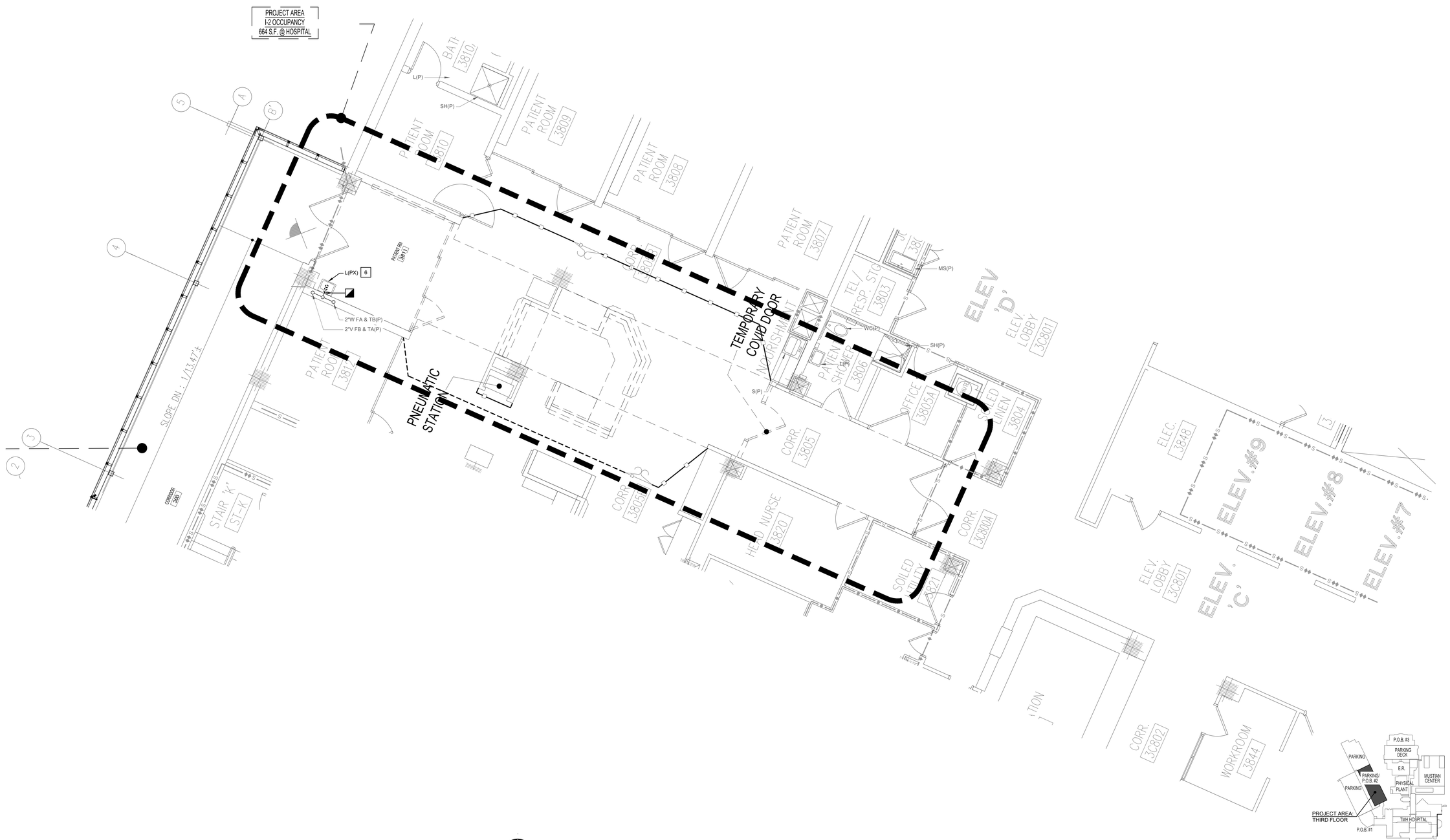
5	REMOVE FIXTURE AND TRIM. CAP WASTE PIPING IN CHASE. REFER TO RENOVATION PLAN FOR ADDITIONAL INFORMATION.
6	REMOVE FIXTURE AND TRIM. REMOVE WASTE PIPING BACK TO WALL AND PROVIDE A WALL CLEAN OUT. PATCH WALL TO MATCH EXISTING AND NEW FINISHES.



1 NORTH **THIRD FLOOR - CONNECTOR CORRIDOR - DEMOLITION - GRAVITY PLUMBING**

SCALE: 1/4"=1'-0"

NORTH ALIGNMENT PROJECT **KEY PLAN** N.T.S.

WALL RATING LEGEND

- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
- ♦♦ — 2 HOUR FIRE
- ♦♦ S — 2 HOUR FIRE/SMOKE

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AHCA LOG No.: 23/100135-000

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SOR CD's	07/03/24	–	–
FGCC OWNER REVIEW	08/16/24	–	–
AHCA STAGE III	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

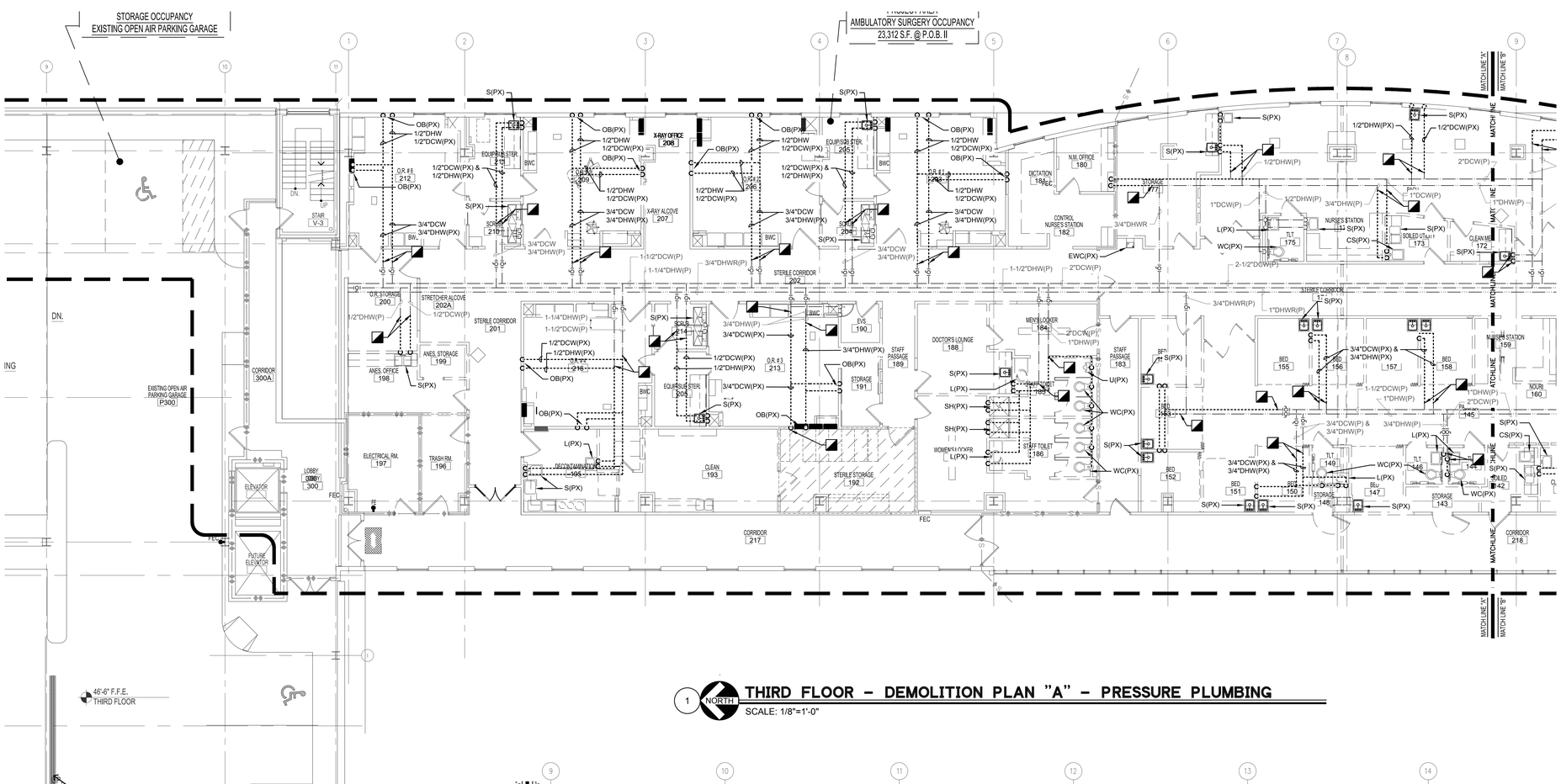
CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE

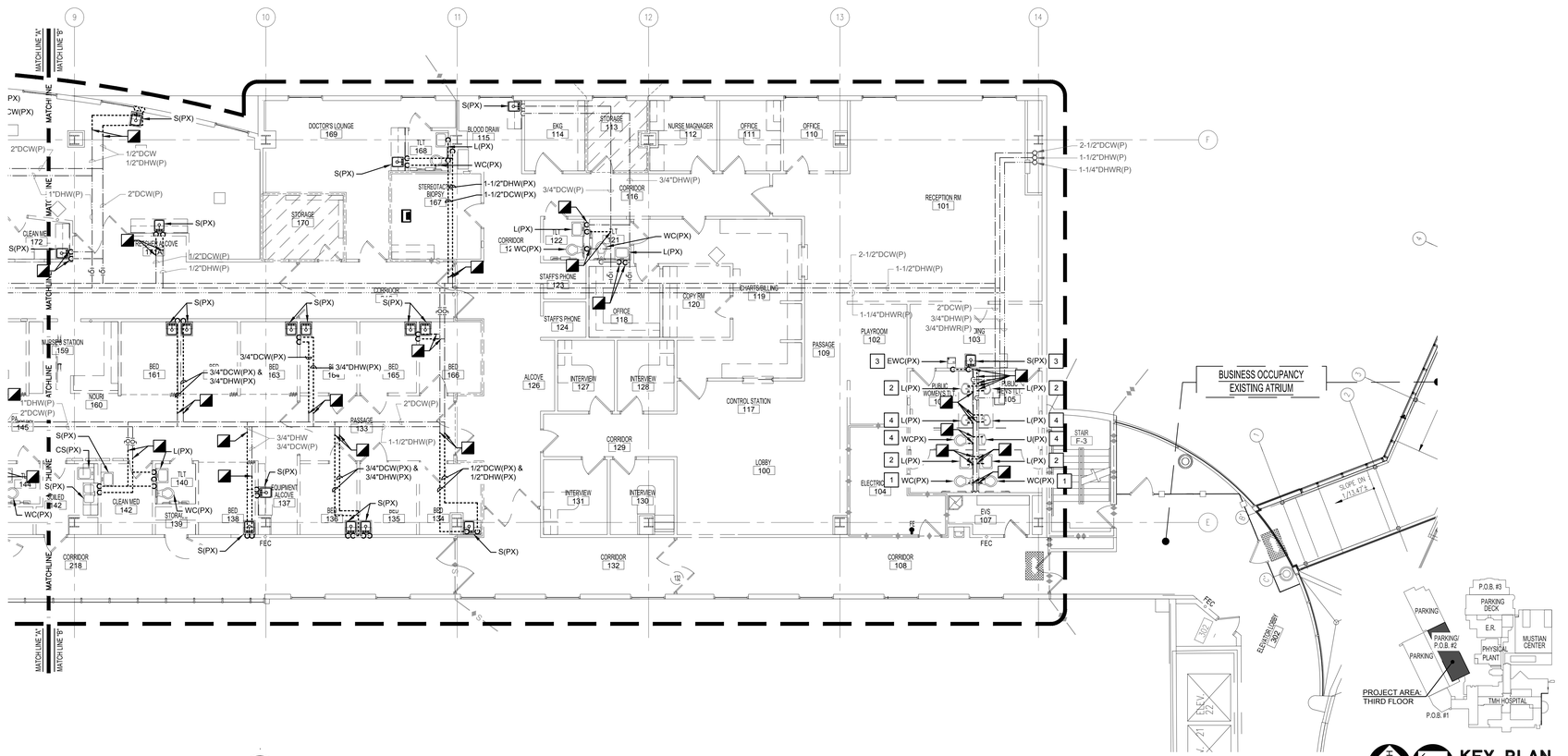
THIRD FLOOR - CONNECTOR CORR - DEMOLITION - GRAVITY PLUMBING

PD1.2



1 NORTH **THIRD FLOOR - DEMOLITION PLAN "A" - PRESSURE PLUMBING**

SCALE: 1/8"=1'-0"



2 NORTH **THIRD FLOOR - DEMOLITION PLAN "B" - PRESSURE PLUMBING**

SCALE: 1/8"=1'-0"

KEY PLAN
N.T.S.

SHEET DEMOLITION KEY NOTES:	
1	REMOVE FIXTURE AND TRIM. WATER TO REMAIN TO CONNECT TO NEW FIXTURE IN SAME LOCATION. REFER TO RENOVATION PLAN FOR ADDITIONAL INFORMATION.
2	REMOVE FIXTURE, TRIM AND WATER STOPS. WATER PIPING TO REMAIN TO CONNECT TO NEW FIXTURE IN SAME LOCATION. NEW STOPS TO BE INSTALLED, REFER TO RENOVATION PLAN AND FIXTURE SCHEDULE.
3	REMOVE FIXTURE AND TRIM. CAP WATER PIPING BACK TO POINT INDICATED. PATCH WALL TO MATCH EXISTING AND NEW FINISHES. REFER TO RENOVATION PLAN FOR ADDITIONAL INFORMATION.
4	REMOVE FIXTURE AND TRIM. CAP WATER PIPING IN CHASE. REFER TO RENOVATION PLAN FOR ADDITIONAL INFORMATION.
5	REMOVE FIXTURE AND TRIM. CAP COLD & HOT WATER PIPING IN WALL. PATCH WALL TO MATCH EXISTING AND NEW FINISHES.

WALL RATING LEGEND
- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
- ♦♦ — 2 HOUR FIRE
- ♦♦ S — 2 HOUR FIRE/SMOKE

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WESLEY H. THIGPEN, JR. LICENSE No. 65705 STATE OF FLORIDA EXPIRES 02-28-25 PROFESSIONAL ENGINEER

RICHARD LINDBURG
PE#: 62829
WESLEY THIGPEN, JR
PE#: 65705

SUBMITTAL

PHASE	DATE	DRAWN	CHECK
SCHEMATICS	02/26/24	-	-
AHCA SINGLE X-RAY	05/31/24	TKE	WHT
50% CD's	07/03/24	TKE	WHT
TEAM OWNER REVIEW	08/16/24	TKE	WHT
AHCA SINGLE X	11/13/24	TKE	WHT

REVISIONS

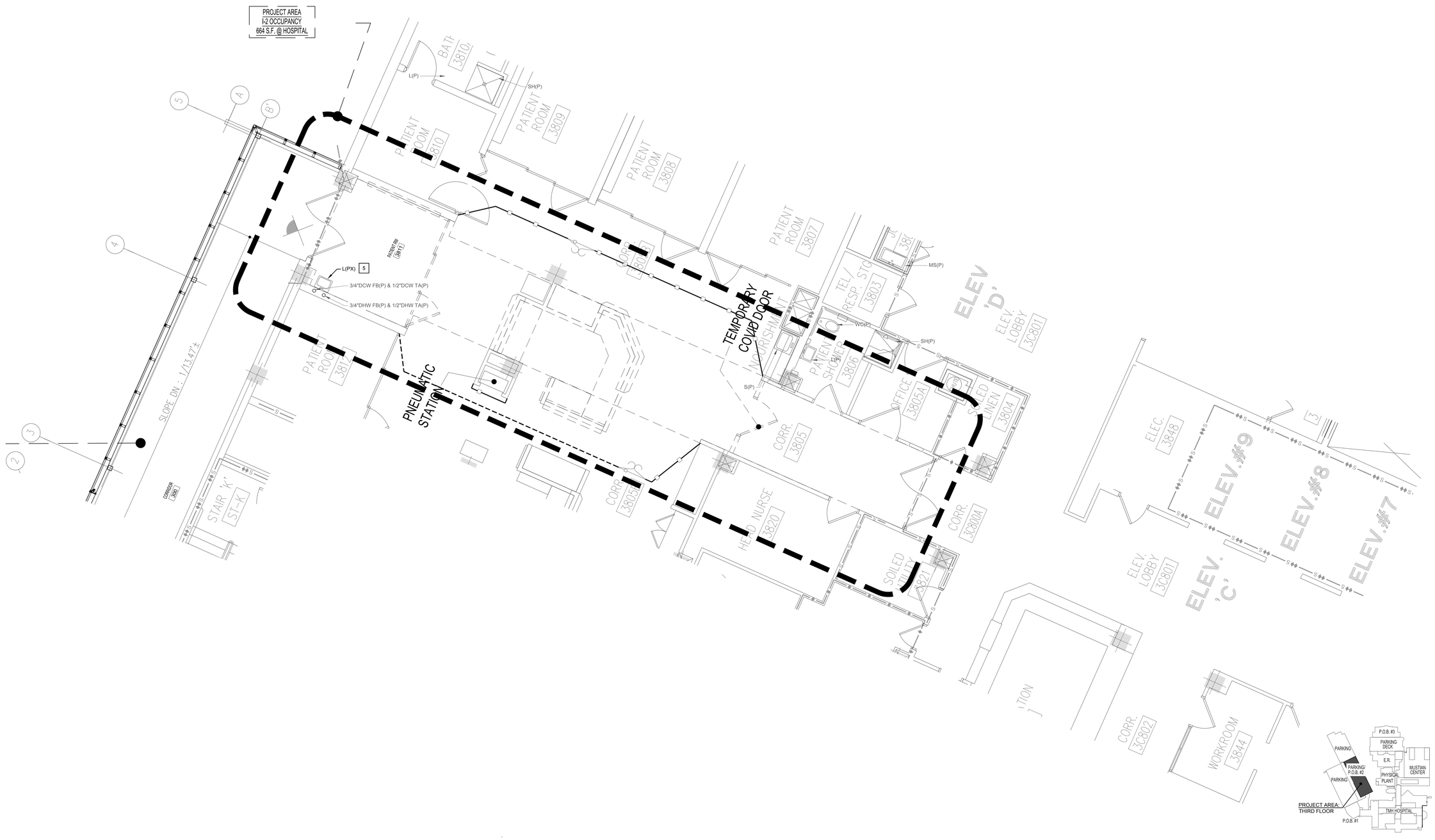
#	DATE	COMMENTS

CRA PROJ.#: 23102
PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE
THIRD FLOOR - DEMOLITION PLANS - PRESSURE PLUMBING

PD2.1

SHEET DEMOLITION KEY NOTES:	
1	REMOVE FIXTURE AND TRIM. WATER TO REMAIN TO CONNECT TO NEW FIXTURE IN SAME LOCATION. REFER TO RENOVATION PLAN FOR ADDITIONAL INFORMATION.
2	REMOVE FIXTURE, TRIM AND WATER STOPS. WATER PIPING TO REMAIN TO CONNECT TO NEW FIXTURE IN SAME LOCATION. NEW STOPS TO BE INSTALLED, REFER TO RENOVATION PLAN AND FIXTURE SCHEDULE.
3	REMOVE FIXTURE AND TRIM. CAP WATER PIPING BACK TO POINT INDICATED. PATCH WALL TO MATCH EXISTING AND NEW FINISHES. REFER TO RENOVATION PLAN FOR ADDITIONAL INFORMATION.
4	REMOVE FIXTURE AND TRIM. CAP WATER PIPING IN CHASE. REFER TO RENOVATION PLAN FOR ADDITIONAL INFORMATION.
5	REMOVE FIXTURE AND TRIM. CAP COLD & HOT WATER PIPING IN WALL. PATCH WALL TO MATCH EXISTING AND NEW FINISHES.



3 NORTH **THIRD FLOOR – CONNECTOR CORRIDOR – DEMOLITION – PRESSURE PLUMBING**

SCALE: 1/4"=1'-0"

NORTH PROJECT NORTH **KEY PLAN**

N.T.S.

WALL RATING LEGEND

- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
- ♦♦ — 2 HOUR FIRE
- ♦♦ S — 2 HOUR FIRE/SMOKE

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Tomahawk Project #: 24002

Tallahassee Memorial HealthCare

P.O.B. II THIRD FLOOR: SINGLE DAY SUGERY RENOVATION

AHCA LOG No.: 23/100135-000

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Architects
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Construction Managers

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SCE CD's	07/03/24	–	–
FGCC OWNER REVIEW	08/16/24	–	–
AHCA SCHGE II	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

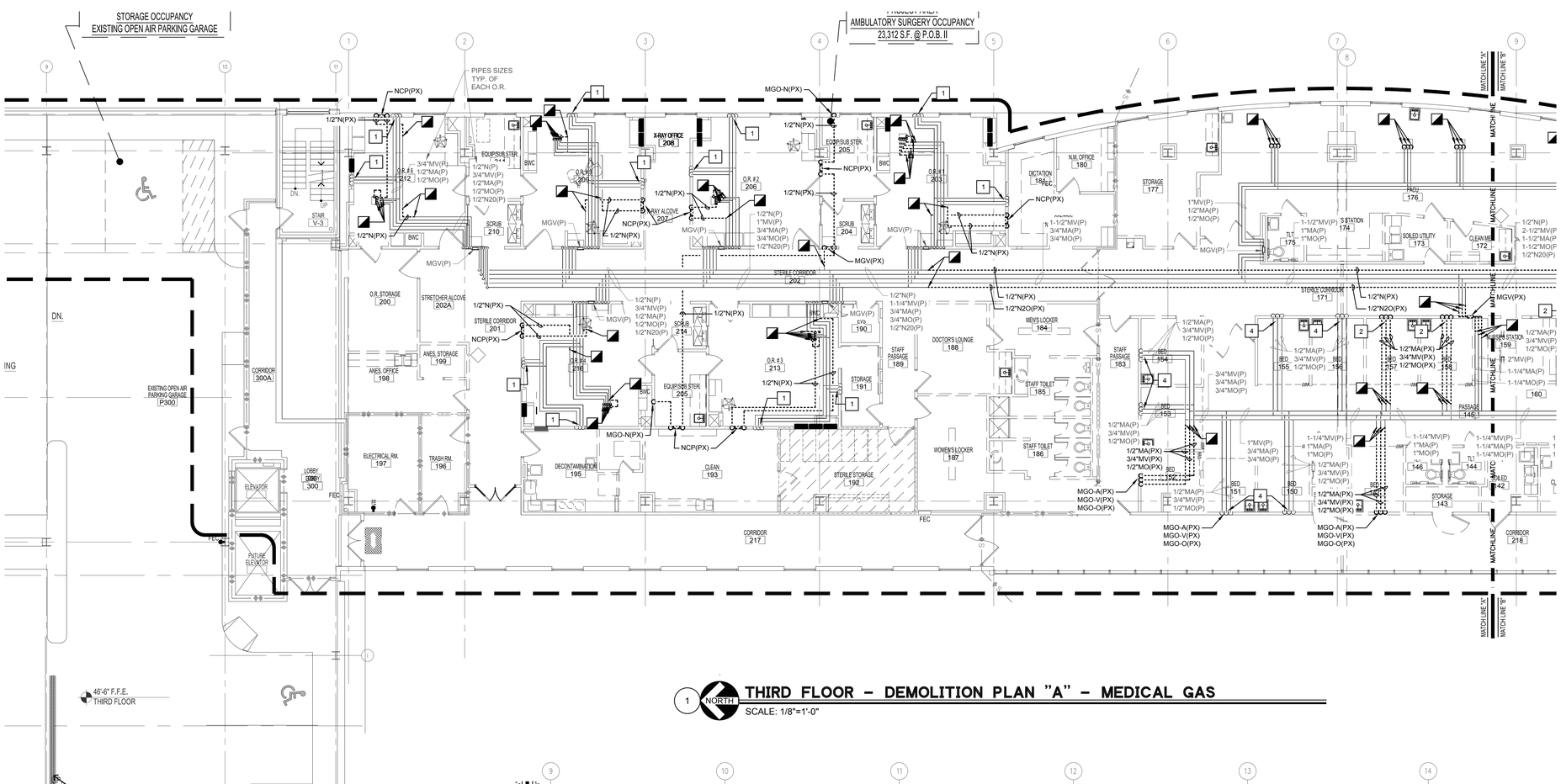
CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE

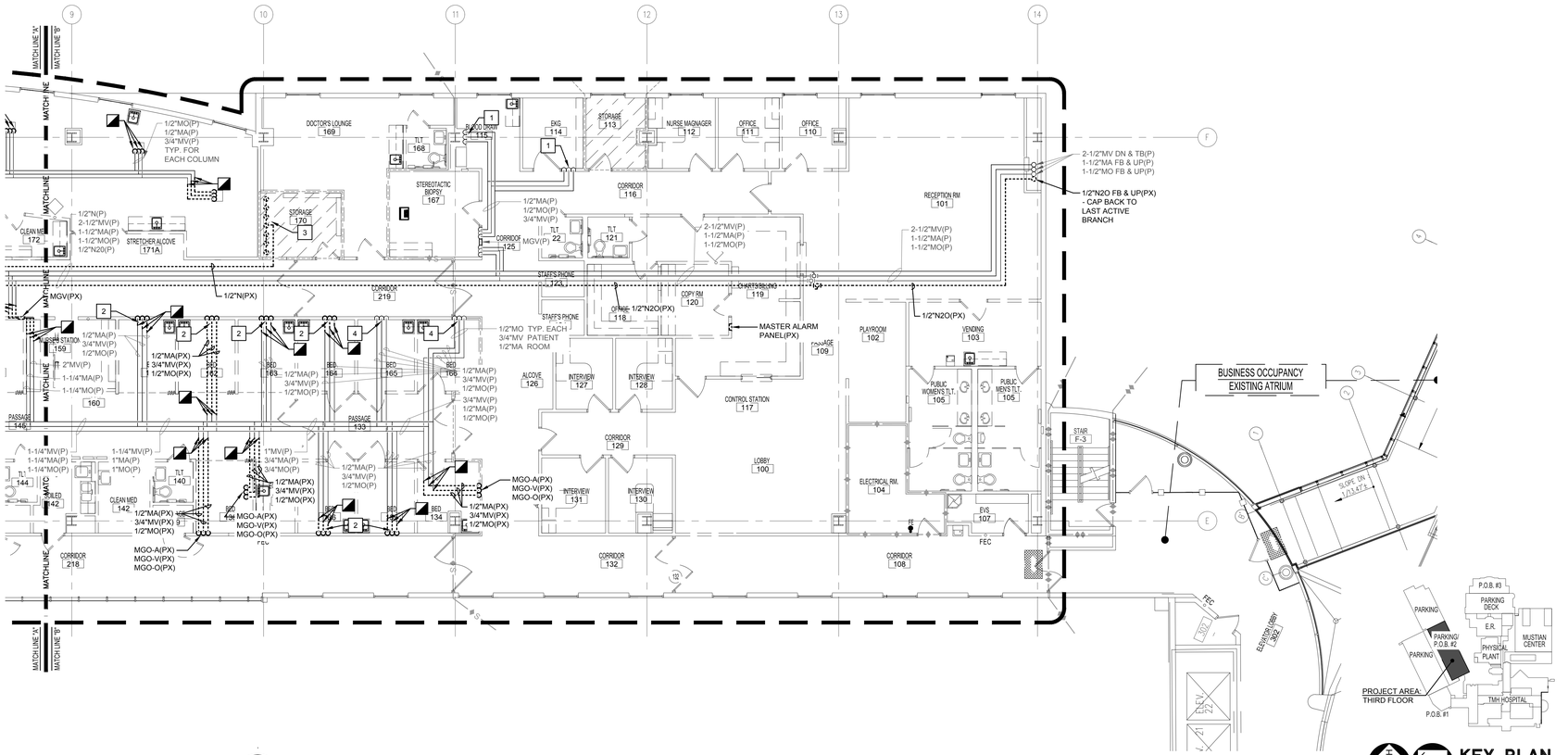
THIRD FLOOR – CONNECTOR CORR – DEMOLITION – PRESSURE PLUMBING

PD2.2



1 NORTH **THIRD FLOOR - DEMOLITION PLAN "A" - MEDICAL GAS**

SCALE: 1/8"=1'-0"



2 NORTH **THIRD FLOOR - DEMOLITION PLAN "B" - MEDICAL GAS**

SCALE: 1/8"=1'-0"

SHEET DEMOLITION KEY NOTES:	
1	EXISTING MGO-A, MGO-V & MGO-O TO REMAIN.
2	REMOVE EXISTING MGO-A, MGO-V & MGO-O AND ASSOCIATED PIPING BACK TO POINT INDICATED.
3	REMOVE NITROGEN MANIFOLD, BOTTLES AND ASSOCIATED APPURTENANCES.
4	REMOVE EXISTING MGO-A, MGO-V & MGO-O AND ASSOCIATED PIPING IN WALL AS REQUIRED TO CONNECT TO NEW HEADWALL. SEE RENOVATION PLAN FOR CONTINUATION.
5	REMOVE 1/2"MO, 3/4"MV & 1/2"MA FROM HEADWALL TO ABOVE CEILING AND CAP.

WALL RATING LEGEND

- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
- ♦♦ — 2 HOUR FIRE
- ♦♦ S — 2 HOUR FIRE/SMOKE

NORTH PROJECT — NORTH ELEVATION **KEY PLAN** N.T.S.

TOMAHAWK ENGINEERING & CONSULTING, INC.
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AHCA LOG No.: 23/100135-000

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50% CD's	07/03/24	TKE	WHT
FOUR OWNER REVIEW	08/16/24	TKE	WHT
AHCA SINGLE II	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE

THIRD FLOOR - DEMOLITION PLANS - MEDICAL GAS

PD3.1

SHEET DEMOLITION KEY NOTES:	
1	EXISTING MGO-A, MGO-V & MGO-O TO REMAIN.
2	REMOVE EXISTING MGO-A, MGO-V & MGO-O AND ASSOCIATED PIPING BACK TO POINT INDICATED.
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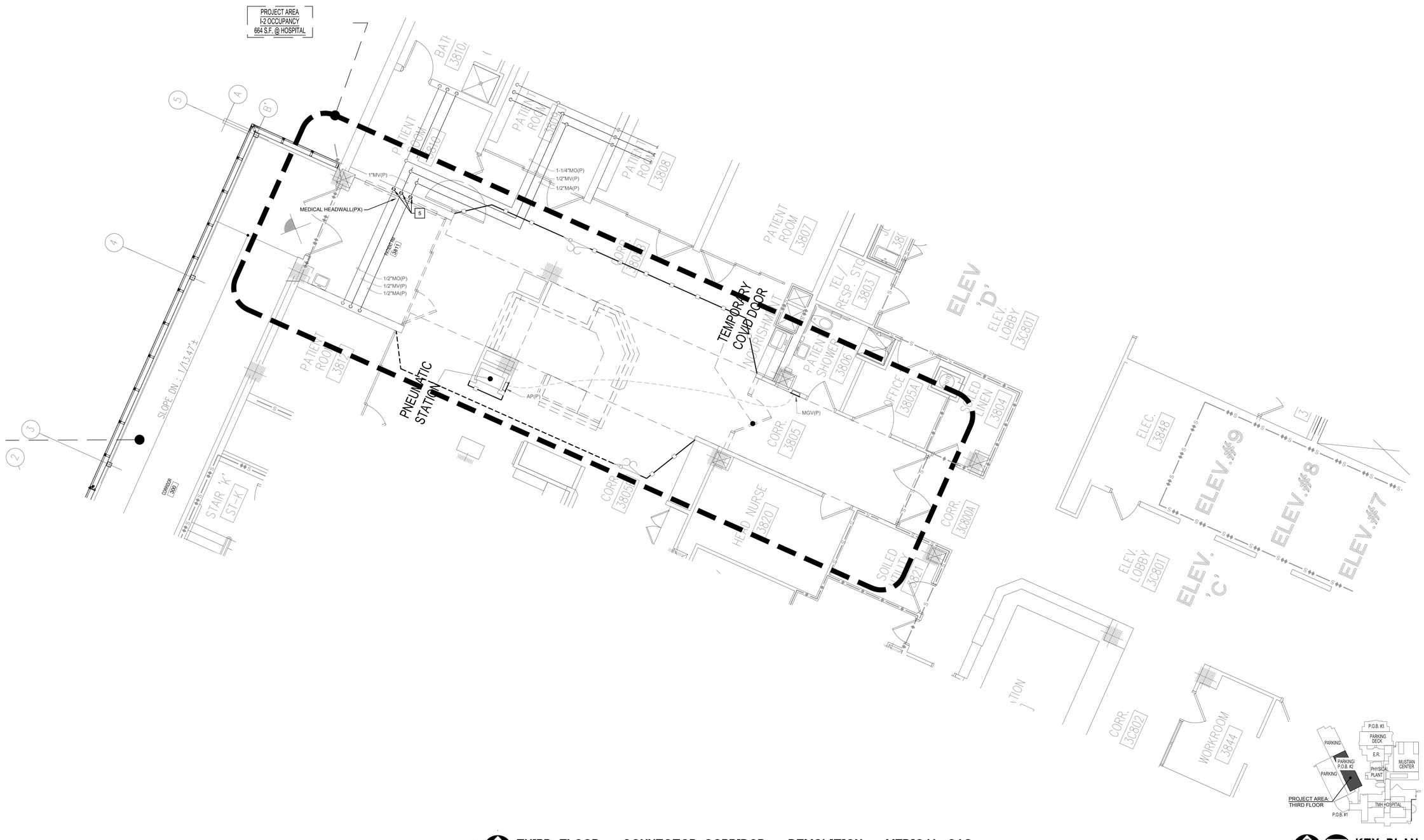

1 NORTH **THIRD FLOOR - CONNECTOR CORRIDOR - DEMOLITION - MEDICAL GAS**
SCALE: 1/4"=1'-0"

NORTH **KEY PLAN** N.T.S.
PROJECT

WALL RATING LEGEND
- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
- ♦♦ — 2 HOUR FIRE
- ♦♦ S — 2 HOUR FIRE/SMOKE

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AHCA LOG No.: 23/100135-000

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PHASE	DATE	DRAWN	CHECK
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AHCA STAGE I VOR 01	05/31/24	-	-
SDE CD's	07/03/24	-	-
VOR OWNER REVIEW	08/16/24	-	-
AHCA STAGE II	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

CRA PROJ.#: 23102
PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE
THIRD FLOOR - CONNECTOR CORR - DEMOLITION - MEDICAL GAS

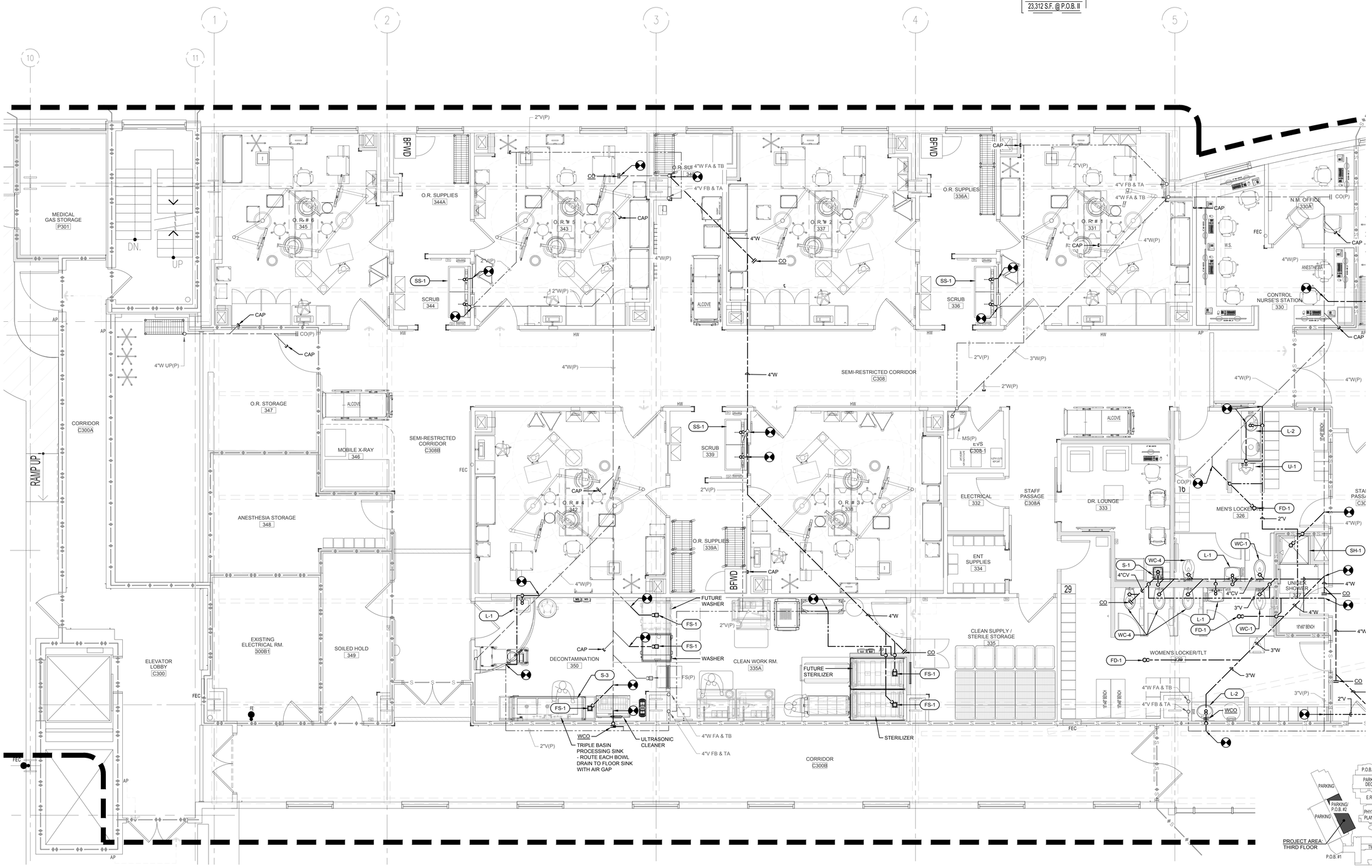
PD3.2

SHEET RENOVATION KEY NOTES:	
1	INSTALL FIXTURE AND TRIM. EXTEND EXISTING WASTE PIPING FROM REMOVED WATER CLOSET.
2	INSTALL FIXTURE AND TRIM. CONNECT TO EXISTING WASTE PIPING WHICH SERVED REMOVED LAVATORIES.
3	INSTALL FIXTURE AND TRIM. CONNECT TO EXISTING WASTE PIPING IN CEILING BELOW.
4	INSTALL FIXTURE AND TRIM. CONNECT TO EXISTING WASTE PIPING IN CHASE AND EXISTING VENT PIPING ABOVE CEILING.

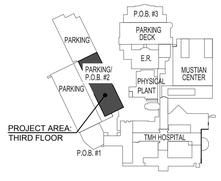
SHEET NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL CORES THRU EXISTING FLOORS TO INSTALL PIPING AS INDICATED. ALL HOLES THRU RATED FLOORS SHALL BE PROVIDED WITH UL LISTED PENETRATION ASSEMBLIES.
2. PROVIDE PIPING CONNECTIONS FOR PURE WATER AND COMPRESSED AIR IN ACCORDANCE WITH THE OWNER SUPPLIED EQUIPMENT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. WHERE QUICK CONNECTS ARE REQUIRED FOR COMPRESSED AIR, THEY SHALL BE PROVIDED.

AMBULATORY SURGERY OCCUPANCY
23,312 S.F. @ P.O.B. II



1 NORTH **THIRD FLOOR - RENOVATION PLAN "A" - GRAVITY PLUMBING**
SCALE: 1/4"=1'-0"



NORTH PROJECT **KEY PLAN**
N.T.S.

WALL RATING LEGEND

- S — SMOKE TIGHT
- 1 HOUR FIRE
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- S — 2 HOUR FIRE/SMOKE

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REVISIONS

#	DATE	COMMENTS

CRA PROJ#: 23102
PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE
THIRD FLOOR - RENOVATION PLAN A - GRAVITY PLUMBING

P1.1

SHEET RENOVATION KEY NOTES:	
1	INSTALL FIXTURE AND TRIM. EXTEND EXISTING WASTE PIPING FROM REMOVED WATER CLOSET.
2	INSTALL FIXTURE AND TRIM. CONNECT TO EXISTING WASTE PIPING WHICH SERVED REMOVED LAVATORIES.
3	INSTALL FIXTURE AND TRIM. CONNECT TO EXISTING WASTE PIPING IN CEILING BELOW.
4	INSTALL FIXTURE AND TRIM. CONNECT TO EXISTING WASTE PIPING IN CHASE AND EXISTING VENT PIPING ABOVE CEILING.

SHEET NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL CORES THRU EXISTING FLOORS TO INSTALL PIPING AS INDICATED. ALL HOLES THRU RATED FLOORS SHALL BE PROVIDED WITH UL LISTED PENETRATION ASSEMBLIES.
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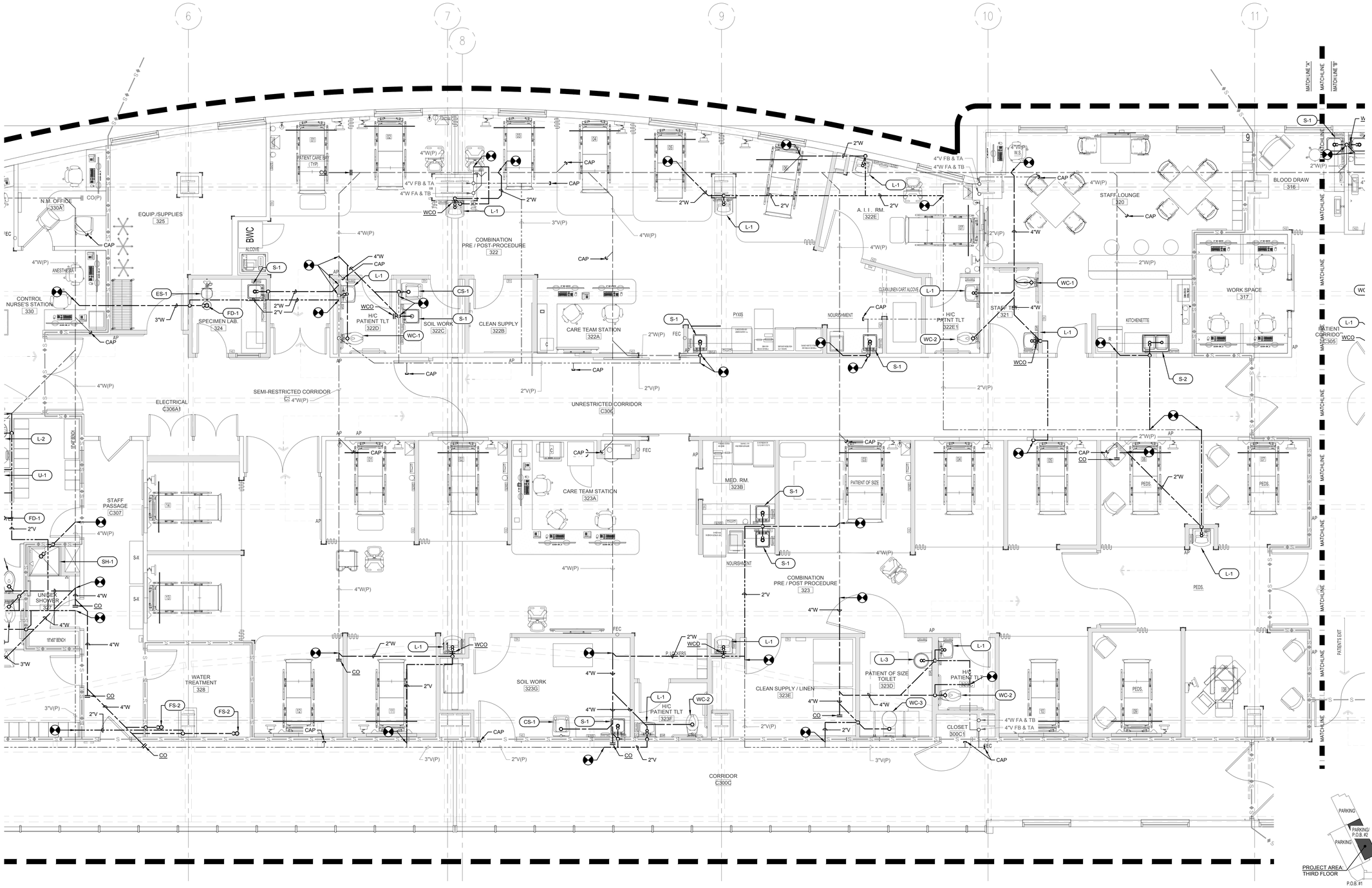
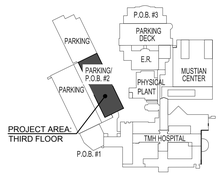


1 NORTH **THIRD FLOOR - RENOVATION PLAN "B" - GRAVITY PLUMBING**

SCALE: 1/4"=1'-0"



NORTH PROJECT NORTH **KEY PLAN** N.T.S.

WALL RATING LEGEND

- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
- ♦♦ — 2 HOUR FIRE
- ♦♦ S — 2 HOUR FIRE/SMOKE

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REVISIONS

#	DATE	COMMENTS

CRA PROJ#: 23102

PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE
THIRD FLOOR - RENOVATION PLAN B - GRAVITY PLUMBING

P1.2

SHEET RENOVATION KEY NOTES:	
1	INSTALL FIXTURE AND TRIM. EXTEND EXISTING WASTE PIPING FROM REMOVED WATER CLOSET.
2	INSTALL FIXTURE AND TRIM. CONNECT TO EXISTING WASTE PIPING WHICH SERVED REMOVED LAVATORIES.
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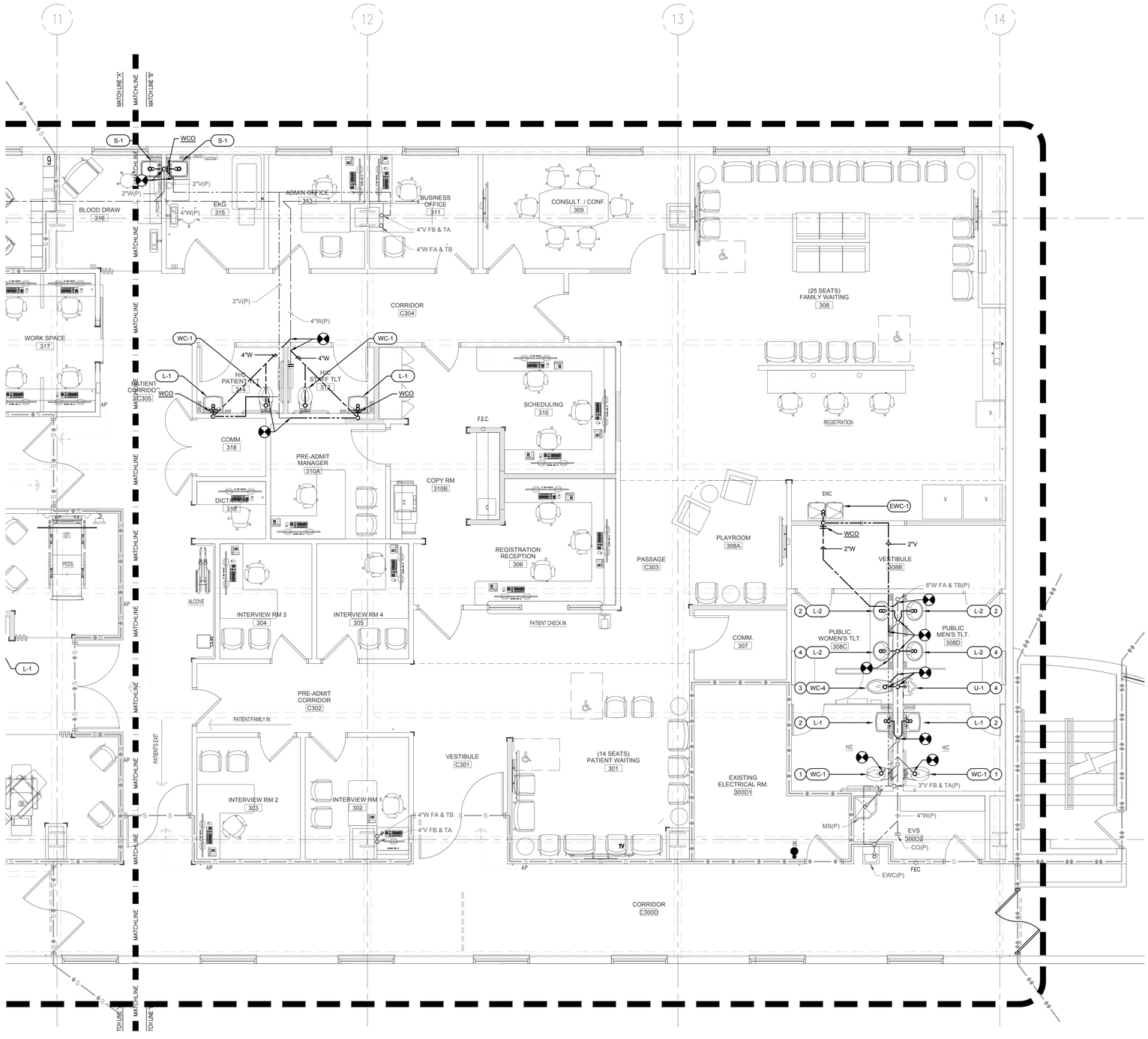
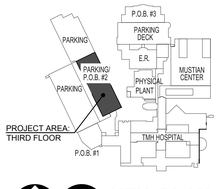


1 NORTH **THIRD FLOOR - RENOVATION PLAN "C" - GRAVITY PLUMBING**

SCALE: 1/4"=1'-0"



NORTH ALIGNMENT **KEY PLAN**

N.T.S.

PROJECT

WALL RATING LEGEND

- SMOKE TIGHT
- 1 HOUR FIRE
- 1 HOUR FIRE/SMOKE
- 2 HOUR FIRE
- 2 HOUR FIRE/SMOKE

TOMAHAWK ENGINEERING & CONSULTING, INC.

1940 Buford Boulevard Tallahassee, FL 32308
Phone: 850-402-3040
Fax: 850-877-5135
Certificate of Authorization #: 29709
Tomahawk Project #: 24002

Tallahassee Memorial HealthCare

P.O.B. II THIRD FLOOR: SINGLE DAY SUGERY RENOVATION

AHCA LOG No.: 23/100135-000

1405 CENTERVILLE RD. TALLAHASSEE, FL

Clemons, Rutherford & Associates Inc.

Architects
Planners
Interior Designers
Construction Managers

2027 Thomasville Road
Tallahassee, Florida 32308

(850) 385-6153
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cra@craarchitects.com
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WESLEY H. THIOPEN JR. LICENSE No. 65705 STATE OF FLORIDA EXPIRES 02-28-25 PROFESSIONAL ENGINEER

RICHARD LINDBURG
PE#: 62829
WESLEY THIOPEN, JR
PE#: 65705

SUBMITTAL

PHASE	DATE	DRAWN	CHECK
SCHEMATICS	02/26/24	-	-
AHCA STAGE II VOL III	05/31/24	TKE	WHT
SOR CD's	07/03/24	TKE	WHT
SOR COMMENT REVIEW	08/16/24	TKE	WHT
AHCA STAGE III	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE

THIRD FLOOR - RENOVATION PLAN C - GRAVITY PLUMBING

P1.3

SHEET RENOVATION KEY NOTES:	
1	INSTALL FIXTURE AND TRIM. CONNECT TO EXISTING WATER PIPING THAT SERVED REMOVED FIXTURE.
2	INSTALL FIXTURE, TRIM AND NEW WATER STOPS. CONNECT TO EXISTING WATER PIPING IN CHASE.
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5	2"SCW FROM WATER SOFTENOR. COORDINATE CONNECTION LOCATION & SIZE WITH WATER TREATMENT VENDOR PRIOR TO INSTALLATION.
6	1"RO FROM REVERSE OSMOSIS SYSTEM. COORDINATE CONNECTION LOCATION WITH WATER TREATMENT VENDOR PRIOR TO INSTALLATION. PROVIDE SAMPLING PORT.
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8	1-1/2"SCW & 1-1/2"SHW THROUGH 3RD FLOOR WITH PIPE SLEEVE. ROUTE TO STEAM WATER HEATER LOCATED IN STRUCTURE BELOW. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION. SEAL ANNULAR SPACE BETWEEN PIPE INSULATION AND PIPE SLEEVE AIR AND WEATHER TIGHT. PROVIDE AN EXPANSION TANK ET-1 ON THE 1-1/2"SCW BETWEEN THE SHUTOFF VALVE AND THE STEAM WATER HEATER.
9	RO WATER TO LOOP DOWN IN WALL TO BELOW EQUIPMENT OUTLET AND THEN BACK UP TO ABOVE THE CEILING. MAKE CONNECTION TO EQUIPMENT OR OUTLET BOX AS SHORT AS POSSIBLE.

SHEET NOTES:

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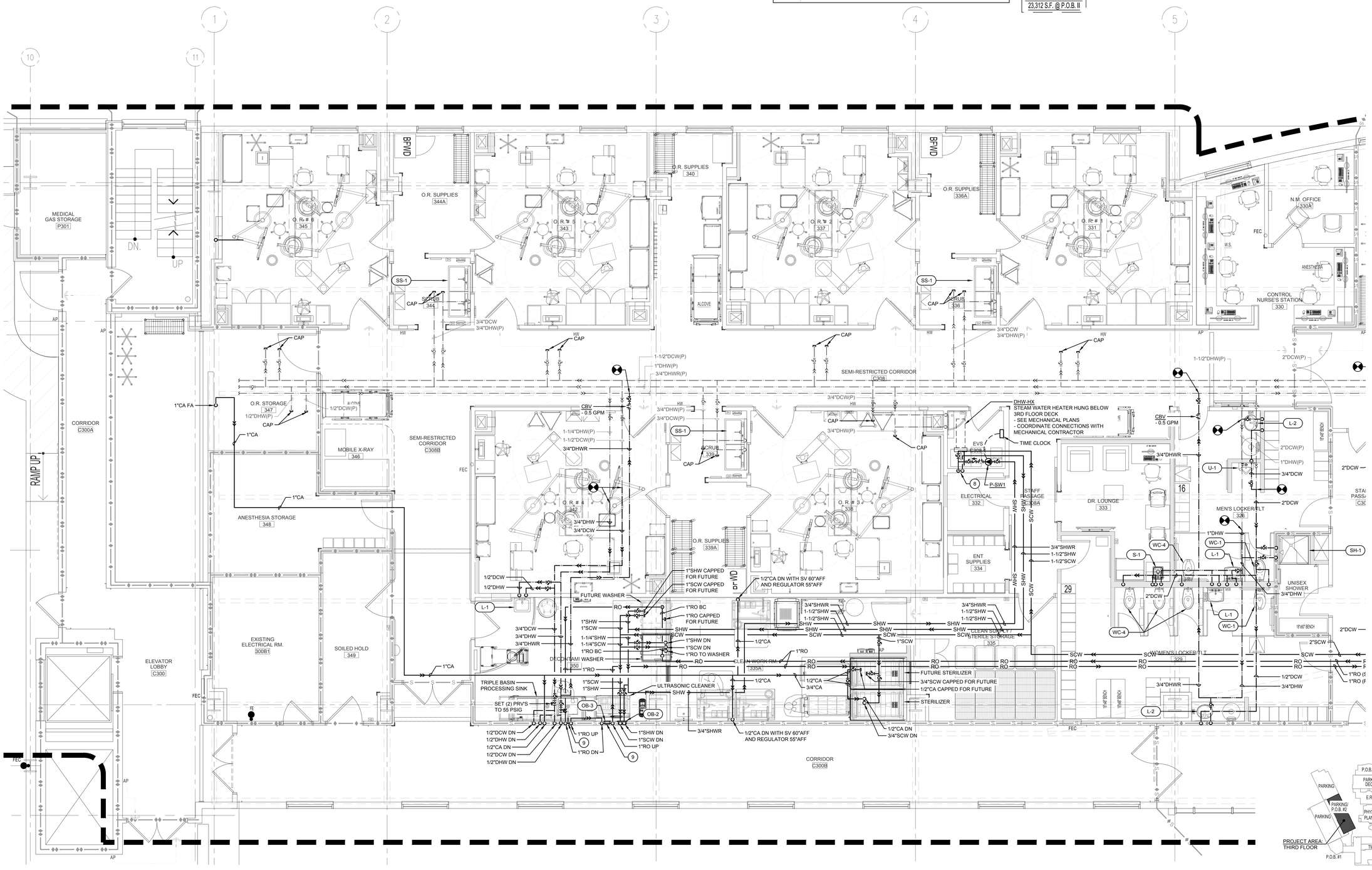
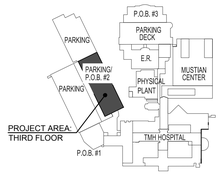
4. PROVIDE BRAIDED STAINLESS STEEL CONNECTIONS FOR ALL REPROCESSING SINKS, ULTRASONIC WASHERS, STERILIZERS AND WASHERS AS REQUIRED BY EQUIPMENT VENDOR.

AMBULATORY SURGERY OCCUPANCY
23,312 S.F. @ P.O.B. II



1 NORTH **THIRD FLOOR - RENOVATION PLAN "A" - PRESSURE PLUMBING**
SCALE: 1/4"=1'-0"



NORTH PROJECT NORTH **KEY PLAN**
N.T.S.

WALL RATING LEGEND

- S — SMOKE TIGHT
- 1 HOUR FIRE
- S — 1 HOUR FIRE/SMOKE
- 2 HOUR FIRE
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Tallahassee Memorial HealthCare

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AHCA LOG No.: 23/100135-000

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VOL.01 OWNER REVIEW	08/16/24	TKE	WHT
AHCA STAGE II	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

CRA PROJ.#: 23102
PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE
THIRD FLOOR - RENOVATION PLAN A - PRESSURE PLUMBING

P2.1

SHEET RENOVATION KEY NOTES:	
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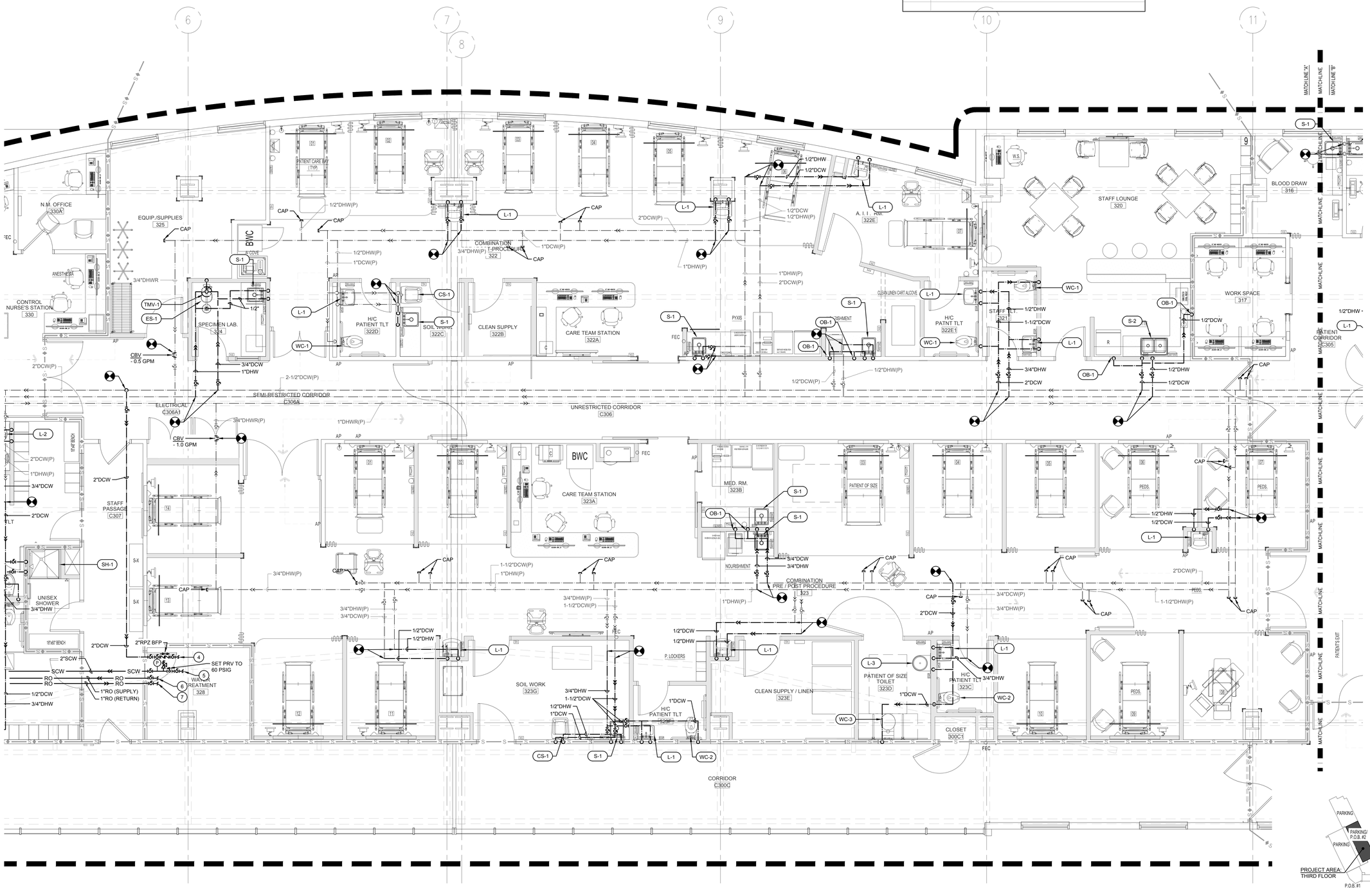
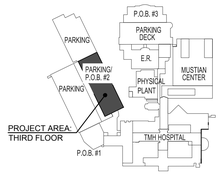


1 THIRD FLOOR - RENOVATION PLAN "B" - PRESSURE PLUMBING

SCALE: 1/4"=1'-0"



KEY PLAN

N.T.S.

WALL RATING LEGEND

- S — SMOKE TIGHT
- 1 HOUR FIRE
- S — 1 HOUR FIRE/SMOKE
- 2 HOUR FIRE
- S — 2 HOUR FIRE/SMOKE

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Tallahassee Memorial HealthCare

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AHCA LOG No.: 23/100135-000

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TUCK OWNER REVIEW	08/16/24	TKE	WHT
AHCA STAGE III	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

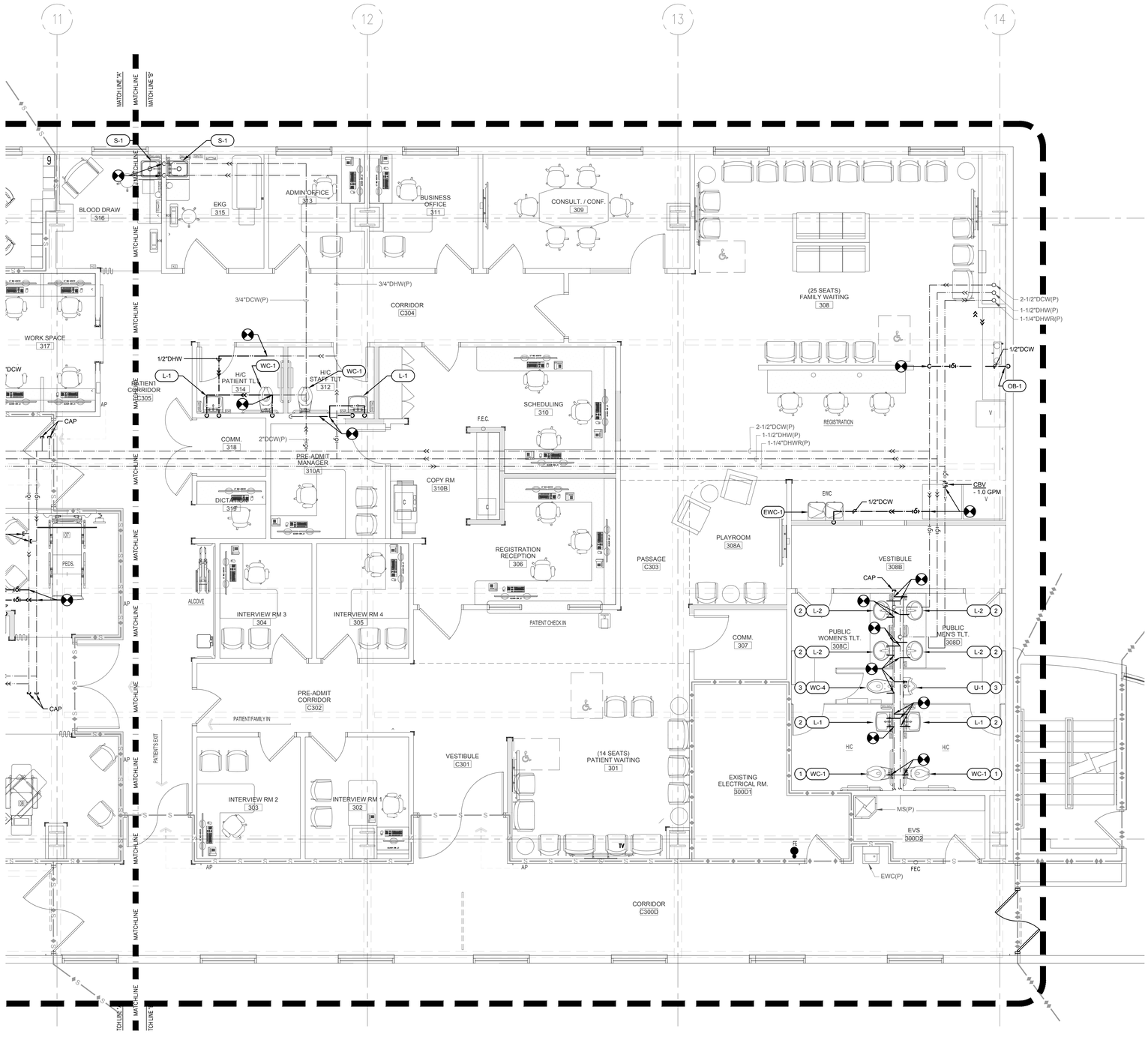
CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE

THIRD FLOOR - RENOVATION PLAN B - PRESSURE PLUMBING

P2.2



1 NORTH **THIRD FLOOR - RENOVATION PLAN "C" - PRESSURE PLUMBING**

SCALE: 1/4"=1'-0"

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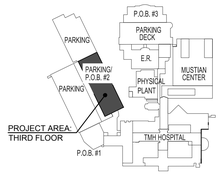

NORTH PROJECT NORTH **KEY PLAN** N.T.S.

WALL RATING LEGEND

- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
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REVISIONS

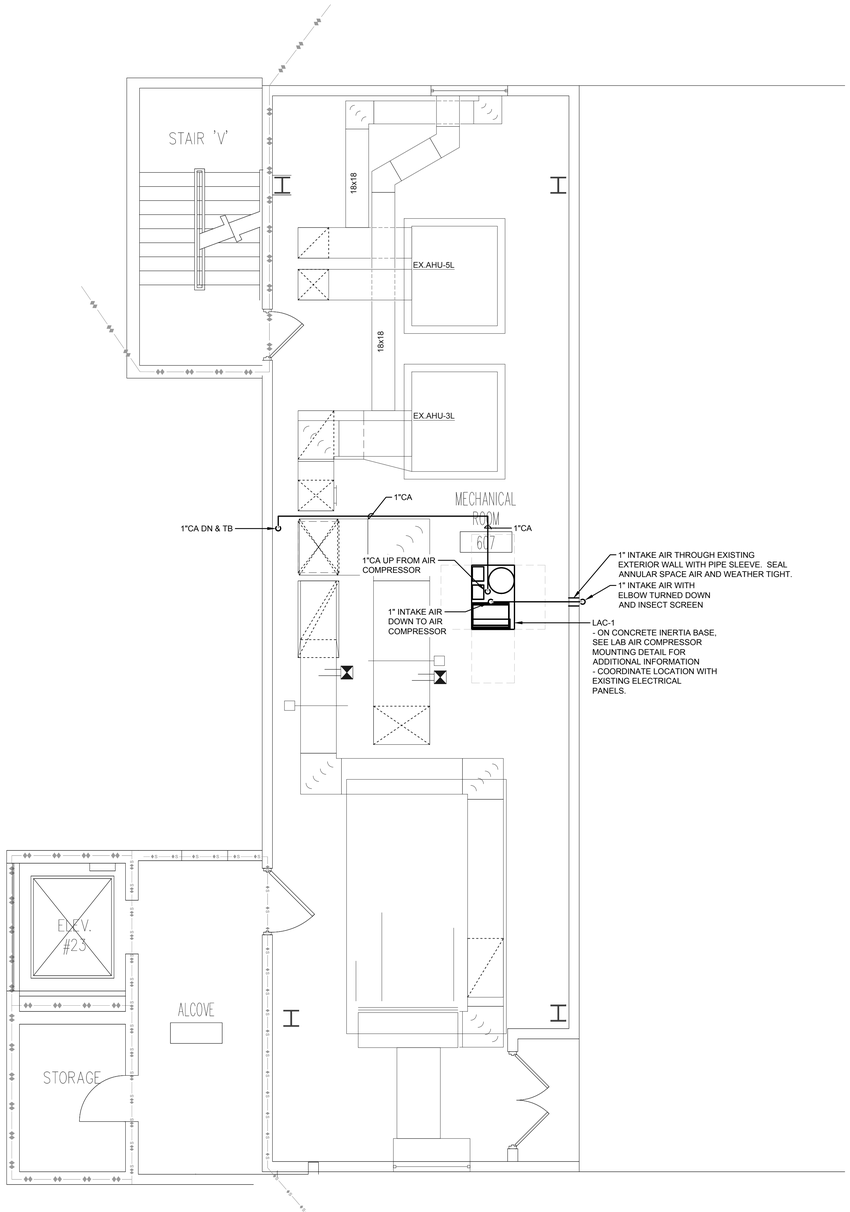
#	DATE	COMMENTS

CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE
THIRD FLOOR - RENOVATION PLAN C - PRESSURE PLUMBING

P2.3



1 NORTH

NORTH PENTHOUSE - PRESSURE PLUMBING

SCALE: 1/4"=1'-0"

WALL RATING LEGEND

- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
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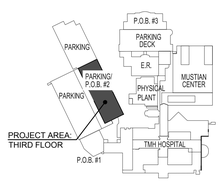


NORTH PROJECT NORTH

KEY PLAN

N.T.S.

CRA PROJ.#: 23102

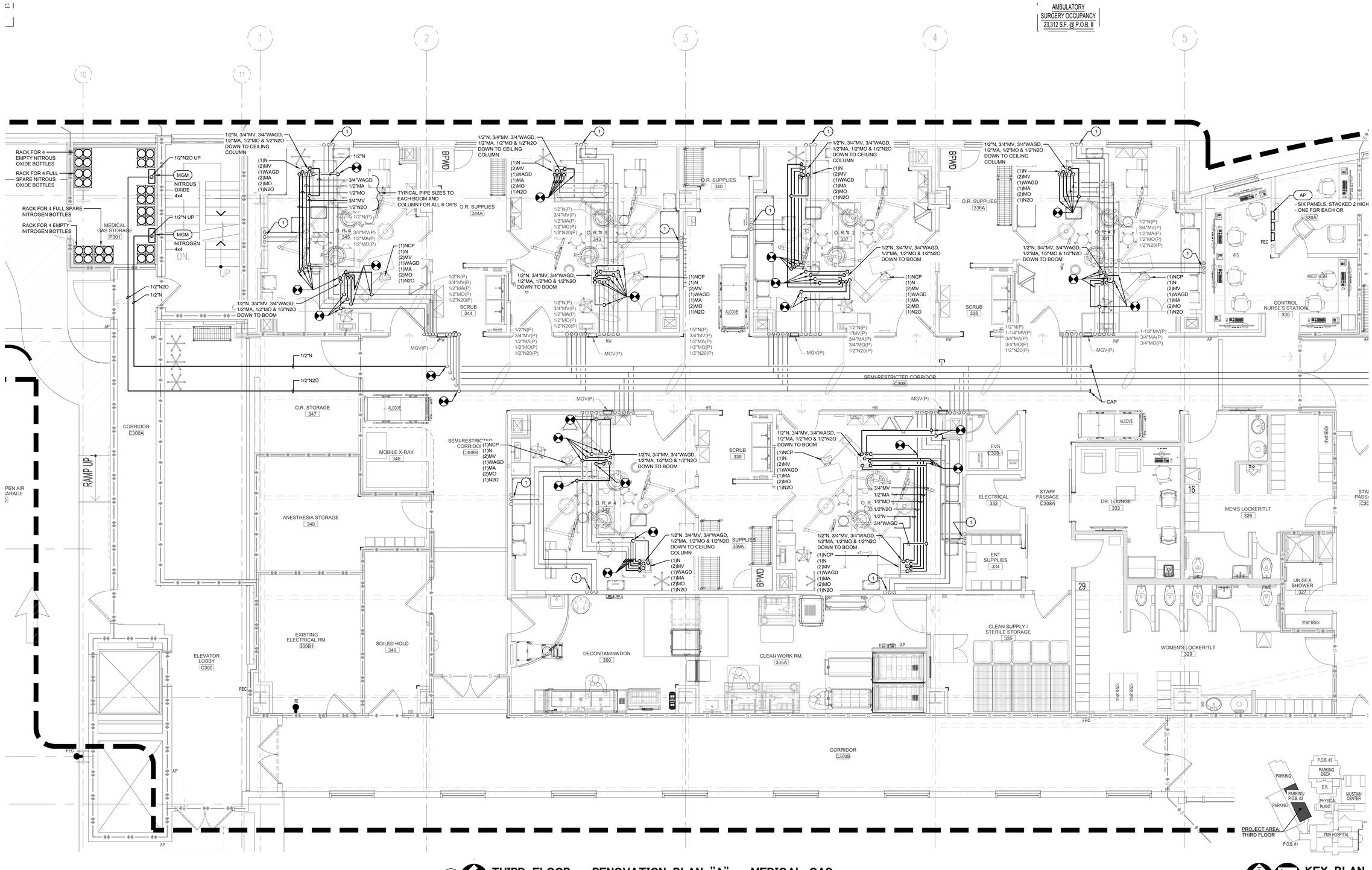
PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE

NORTH PENTHOUSE - PRESSURE PLUMBING

P2.4

SHEET RENOVATION KEY NOTES:	
1	EXISTING MGO-A, MGO-V & MGO-O TO REMAIN.
2	1/2"MA, 3/4"MV & 1/2"MO DN IN WALL TO HEADWALL. HEADWALL TO HAVE (1)MV OUTLET, (1)MA OUTLET & (1)MO OUTLET.
3	EXTEND EXISTING 1/2"MA, 3/4"MV & 1/2"MO IN WALL TO HEADWALL. HEADWALL TO HAVE (1)MV OUTLET, (1)MA OUTLET & (1)MO OUTLET.



1 NORTH **THIRD FLOOR - RENOVATION PLAN "A" - MEDICAL GAS**
SCALE: 1/4"=1'-0"

NORTH **KEY PLAN** N.T.S.
PROJECT

WALL RATING LEGEND
- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
- ♦♦ — 2 HOUR FIRE
- ♦♦ S — 2 HOUR FIRE/SMOKE

TOMAHAWK ENGINEERING & CONSULTING, INC.
1940 Buford Boulevard Tallahassee, FL 32308
Phone: 850-402-3040
Fax: 850-877-5135
Certificate of Authorization #: 29709
Tomahawk Project #: 24002

Tallahassee Memorial HealthCare

P.O.B. II THIRD FLOOR: SINGLE DAY SUGERY RENOVATION
AHCA LOG No.: 23/100135-000

1405 CENTERVILLE RD. TALLAHASSEE, FL

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RICHARD LINDBURG
PE#: 62829
WESLEY THIGPEN, JR
PE#: 65705

SUBMITTAL

PHASE	DATE	DRAWN	CHECK
SCHEMATICS	02/26/24	-	-
AHCA STAGE I AHCA DD	05/31/24	TKE	WHT
SEE CD's	07/03/24	TKE	WHT
VOCE OWNER REVIEW	08/16/24	TKE	WHT
AHCA STAGE II	11/13/24	TKE	WHT

REVISIONS

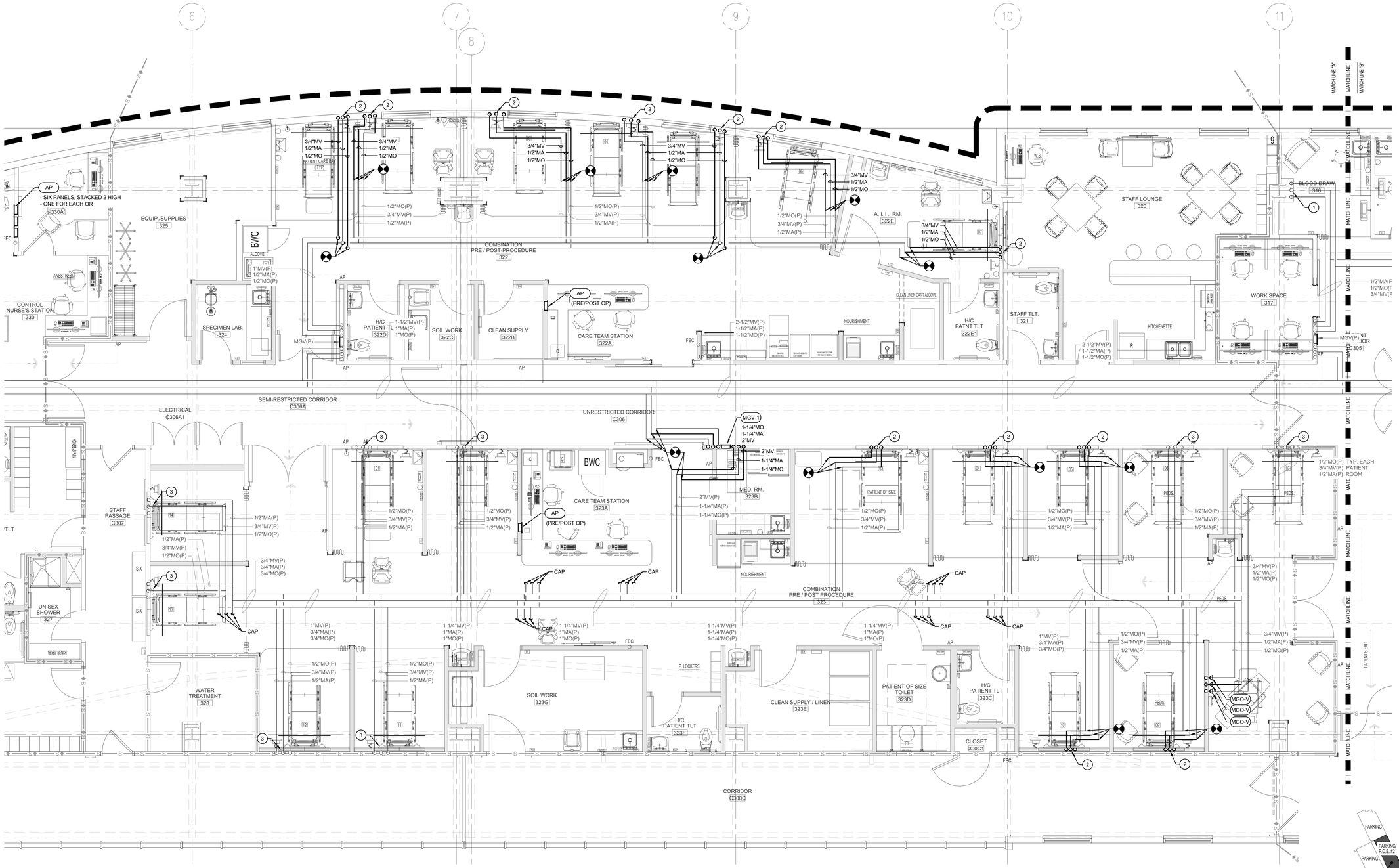
#	DATE	COMMENTS

CRA PROJ#: 23102
PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE
THIRD FLOOR - RENOVATION PLAN A - MEDICAL GAS

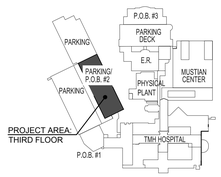
P3.1

SHEET RENOVATION KEY NOTES:	
1	EXISTING MGO-A, MGO-V & MGO-O TO REMAIN.
2	1/2"MA, 3/4"MV & 1/2"MO DN IN WALL TO HEADWALL. HEADWALL TO HAVE (1)MV OUTLET, (1)MA OUTLET & (1)MO OUTLET.
3	EXTEND EXISTING 1/2"MA, 3/4"MV & 1/2"MO IN WALL TO HEADWALL. HEADWALL TO HAVE (1)MV OUTLET, (1)MA OUTLET & (1)MO OUTLET.



1 NORTH **THIRD FLOOR - RENOVATION PLAN "B" - MEDICAL GAS**

SCALE: 1/4"=1'-0"



NORTH PROJECT NORTH **KEY PLAN**

N.T.S.

WALL RATING LEGEND

- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
- ♦♦ — 2 HOUR FIRE
- ♦♦ S — 2 HOUR FIRE/SMOKE

TOMAHAWK ENGINEERING & CONSULTING, INC.
1940 Buford Boulevard Tallahassee, FL 32308
Phone: 850-402-3040
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Certificate of Authorization #: 29709
Tomahawk Project #: 24002

Tallahassee Memorial HealthCare

P.O.B. II THIRD FLOOR: SINGLE DAY SUGERY RENOVATION

AHCA LOG No.: 23/100135-000

1405 CENTERVILLE RD. TALLAHASSEE, FL

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WESLEY H. THIGPEN, JR. LICENSE No. 65705 STATE OF FLORIDA EXPIRES 12-31-24 PROFESSIONAL ENGINEER

RICHARD LINDBURG
PE#: 62829
WESLEY THIGPEN, JR
PE#: 65705

SUBMITTAL

PHASE	DATE	DRAWN	CHECK
SCHEMATICS	02/26/24	-	-
AHCA STAGE I GUIDE DOC	05/31/24	TKE	WHT
SCE CD's	07/03/24	TKE	WHT
TCCE OWNER REVIEW	08/16/24	TKE	WHT
AHCA STAGE II	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

CRA PROJ.#: 23102

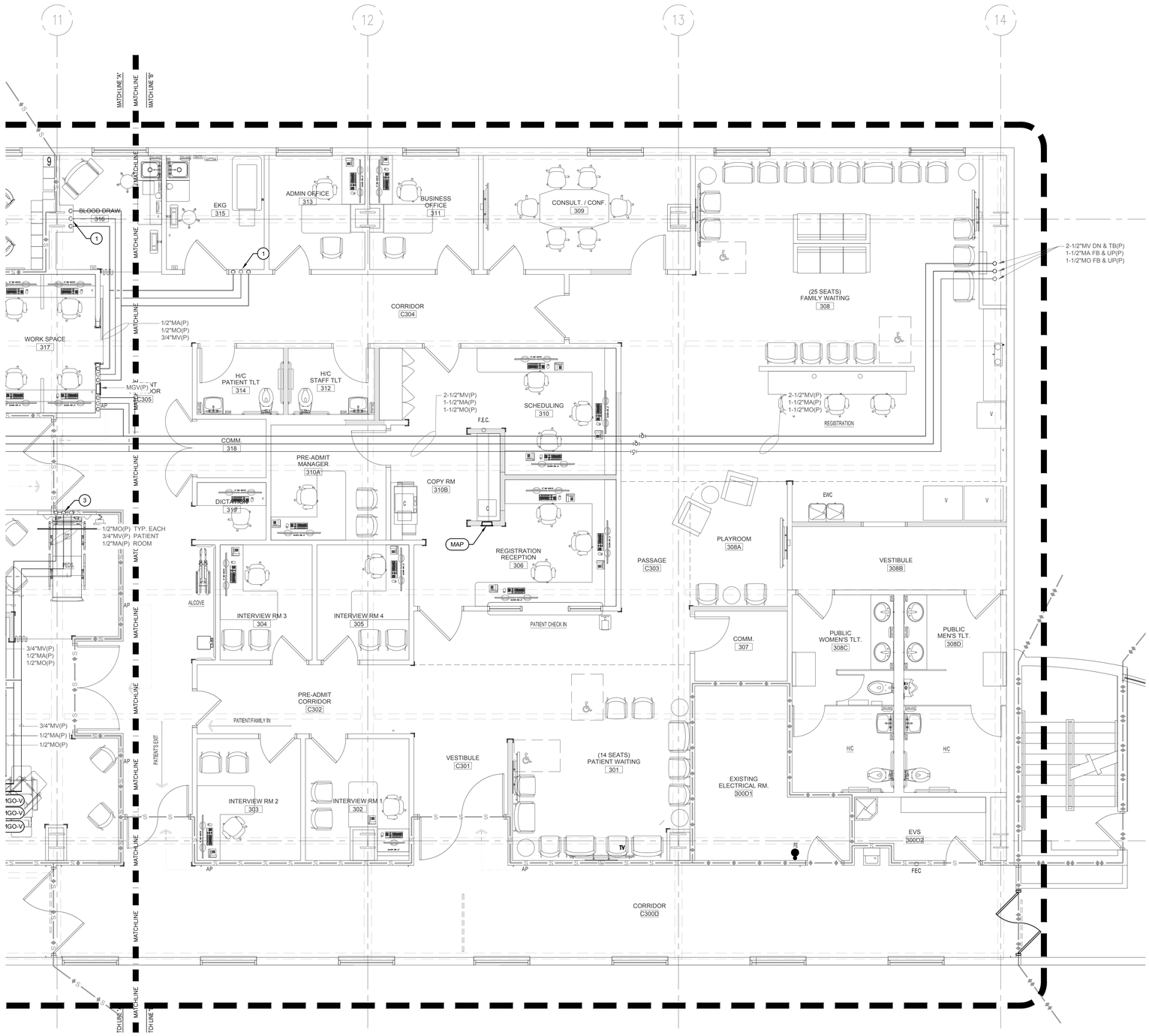
PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE

THIRD FLOOR - RENOVATION PLAN B - MEDICAL GAS

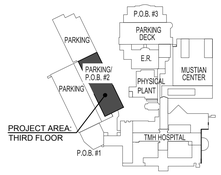
P3.2

SHEET RENOVATION KEY NOTES:	
1	EXISTING MGO-A, MGO-V & MGO-O TO REMAIN.
2	1/2"MA, 3/4"MV & 1/2"MO DN IN WALL TO HEADWALL. HEADWALL TO HAVE (1)MV OUTLET, (1)MA OUTLET & (1)MO OUTLET.
3	EXTEND EXISTING 1/2"MA, 3/4"MV & 1/2"MO IN WALL TO HEADWALL. HEADWALL TO HAVE (1)MV OUTLET, (1)MA OUTLET & (1)MO OUTLET.



1 NORTH **THIRD FLOOR - RENOVATION PLAN "C" - MEDICAL GAS**

SCALE: 1/4"=1'-0"



NORTH NORTH PROJECT **KEY PLAN** N.T.S.

WALL RATING LEGEND

- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
- ♦♦ — 2 HOUR FIRE
- ♦♦ S — 2 HOUR FIRE/SMOKE

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AHCA LOG No.: 23/100135-000

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WESLEY H. THIGPEN, JR. LICENSE No. 65705 STATE OF FLORIDA EXPIRES 02-28-25 PROFESSIONAL ENGINEER

RICHARD LINDBURG
PE#: 62829
WESLEY THIGPEN, JR
PE#: 65705

SUBMITTAL

PHASE	DATE	DRAWN	CHECK
SCHEMATICS	02/26/24	-	-
AHCA STAGE II VOER (1)	05/31/24	TKE	WHT
SOE (2)'s	07/03/24	TKE	WHT
VOER OWNER REVIEW	08/16/24	TKE	WHT
AHCA STAGE III	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

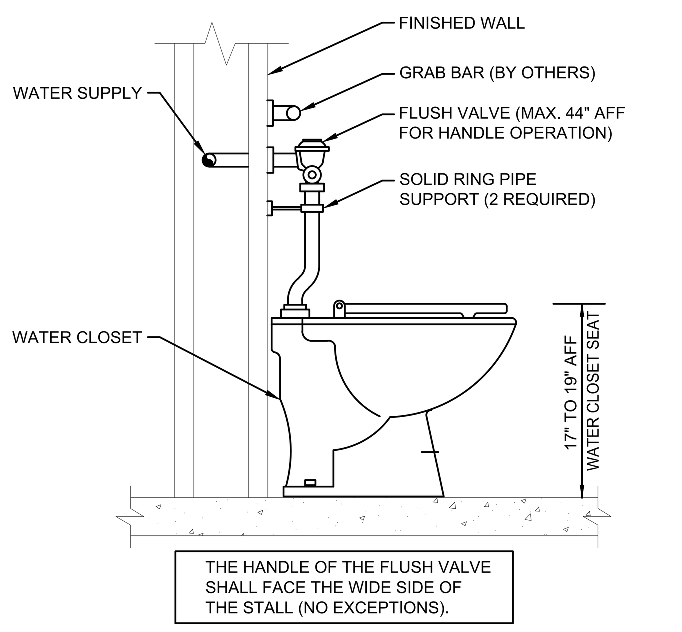
CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

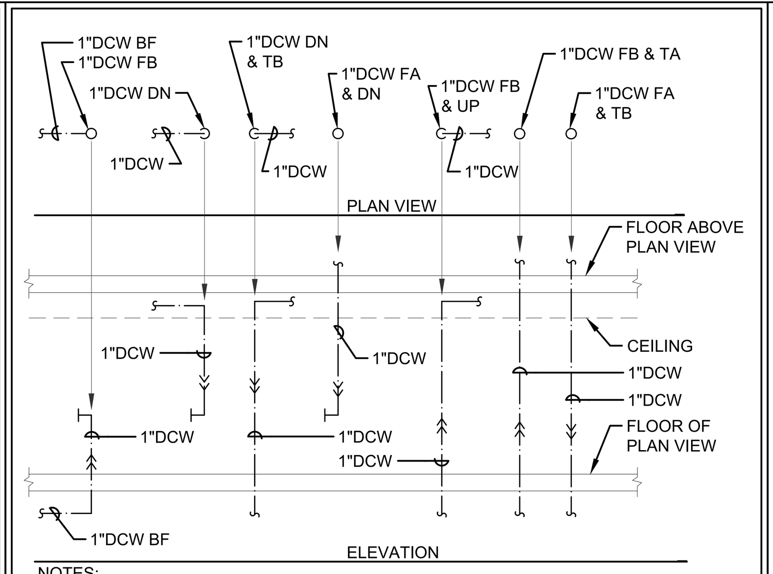
SHEET TITLE

THIRD FLOOR - RENOVATION PLAN C - MEDICAL GAS

P3.3



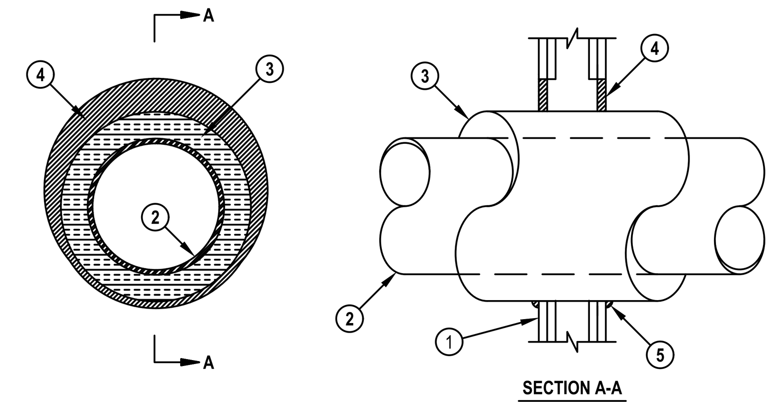
9 | WATER CLOSET DETAIL | SCALE: NONE



NOTES:

1. HORIZONTAL WATER & MEDICAL GAS PIPING IS LOCATED IN CEILING OF CURRENT FLOOR UNLESS INDICATED OTHERWISE.

5 | WATER & MED GAS VERTICAL PIPING NOMENCLATURE DETAIL | SCALE: NONE



CAN/ULC S115
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
FT Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
FH Ratings — 1, 2 and 3 Hr (See Items 1, 2 and 4)
FTH Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft
L Rating At 400 F — Less Than 1 CFM/Sq Ft
ANSI/UL1479 (ASTM E814)
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft
L Rating At 400 F — Less Than 1 CFM/Sq Ft

System No. W-L-5029

1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).
   D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).
3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).
3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above.
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

CLASSIFIED C UL US
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

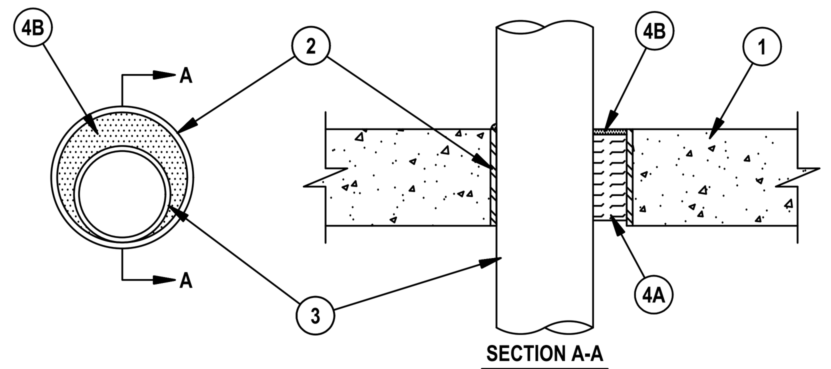
HILTI
Hilti Firestop Systems

3 | PIPE PENETRATION DETAIL | SCALE: NONE

CLASSIFIED C UL US
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. C-AJ-1421

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 or 3Hr	F Rating — 2 or 3 Hr
T Ratings — 0 Hr	FT Ratings — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 2 or 3 Hr
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Ratings — 0 Hr (See Item 3C)
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — Less Than 1 CFM/sq ft



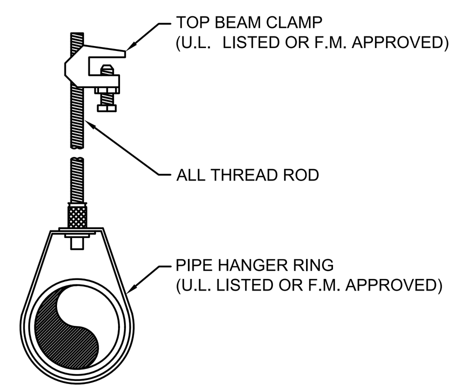
1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve — (Optional) Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Through-Penetrant — One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, tube or conduit and periphery of opening shall be min 0 in. (0 mm) (point contact) to max 5-3/8 in. (137 mm). Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel conduit.
   F. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).
4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* - Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. For 3 Hr rated assemblies, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete/pipe interface at the point contact location on the top surface of floor and on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or CP604 Self-Leveling Firestop Sealant. CP604 shall be used in floor applications only. When CP604 is used, F Rating is 2 Hr.

*Bearing the UL Classification Mark

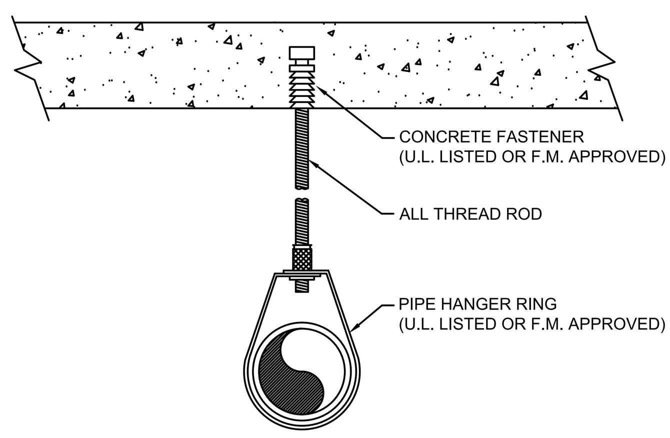
HILTI
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. November 21, 2012

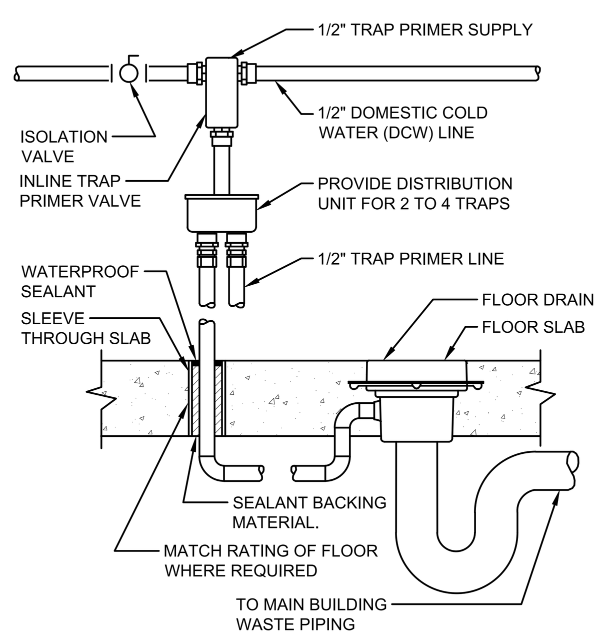
1 | FIRE RATED PIPE PENETRATION DETAIL | SCALE: NONE



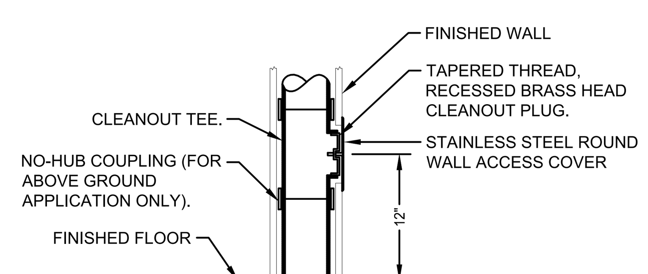
10 | HANGER-STEEL DETAIL | SCALE: NONE



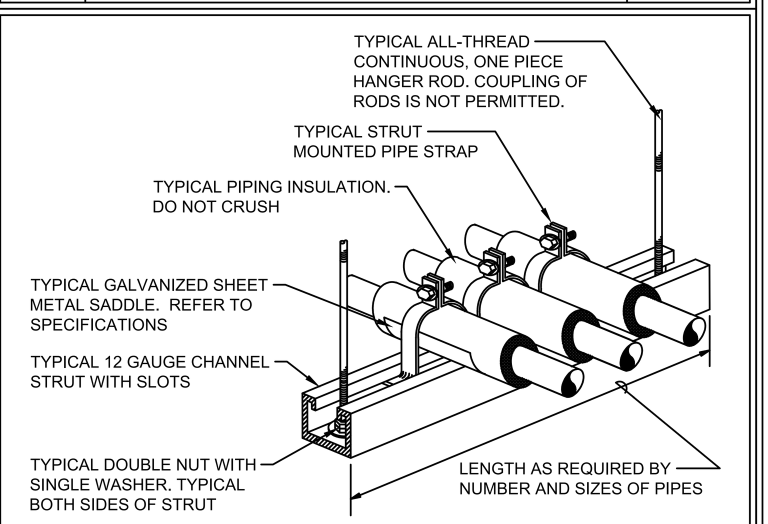
6 | HANGER-CONCRETE DETAIL | SCALE: NONE



11 | TRAP PRIMER DETAIL | SCALE: NONE



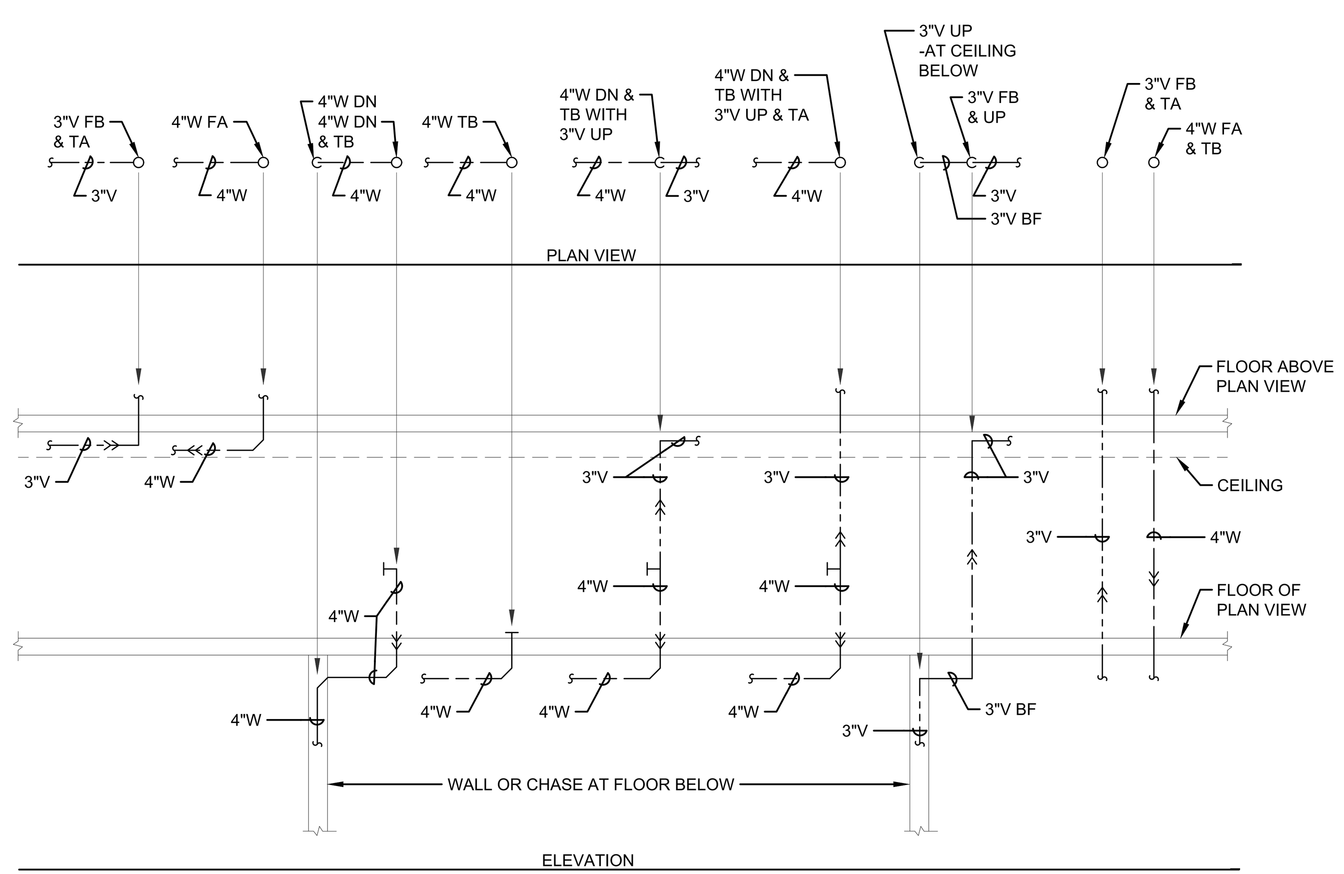
7 | WALL CLEANOUT (WCO) DETAIL | SCALE: NONE



NOTE:

1. REFER TO SPECIFICATIONS AND FLOOR PLANS FOR MATERIALS AND SIZES.
2. SPECIFIED HANGER ROD, STRUT, NUTS, WASHERS AND PIPE STRAPS SHALL BE OF GALVANIZED PLATED MATERIALS.

8 | TRAPEZE HANGER DETAIL | SCALE: NONE



NOTES:

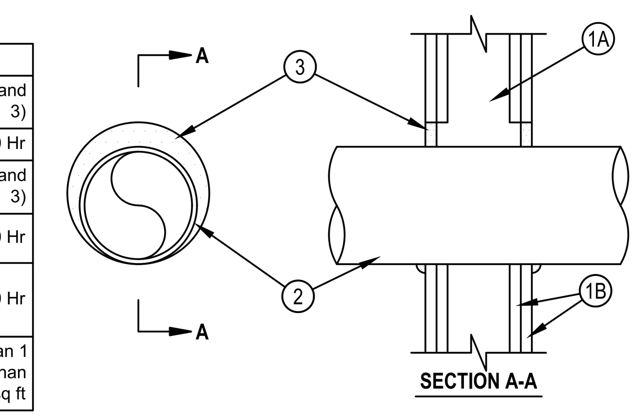
1. STORM PIPING (ST) IS SIMILAR TO WASTE PIPING (W).
2. HORIZONTAL WASTE & STORM PIPING IS LOCATED BELOW CURRENT FLOOR UNLESS INDICATED OTHERWISE.
3. HORIZONTAL VENT PIPING IS LOCATED IN CEILING OF CURRENT FLOOR UNLESS INDICATED OTHERWISE.

4 | WASTE & VENT VERTICAL PIPING NOMENCLATURE DETAIL | SCALE: NONE

CLASSIFIED C UL US
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. W-L-1054

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft L Rating at 400 F — Less Than 1 CFM/sq ft



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls.
   The F Rating of the firestop system is equal to the fire rating of the wall assembly.
2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
   D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall .
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

HILTI
Hilti Firestop Systems

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2 | FIRE RATED PIPE PENETRATION DETAIL | SCALE: NONE

TOMAHAWK
ENGINEERING & CONSULTING, INC.
1940 Buford Boulevard Tallahassee, FL 32308
Phone: 850-402-3040
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Certificate of Authorization #: 29709
Tomahawk Project #: 24002

Tallahassee Memorial HealthCare

P.O.B. II THIRD FLOOR: SINGLE DAY SUGERY RENOVATION
AHCA LOG No.: 23/100135-000

1405 CENTERVILLE RD. TALLAHASSEE, FL

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RICHARD LINDBURG
PE#: 62829
WESLEY THIGPEN, JR
PE#: 65705

SUBMITTAL

PHASE	DATE	DRAWN	CHECK
SCHEMATICS	02/26/24	-	-
AHCA STAGE II 100% DD	05/31/24	TKE	WHT
50% CD's	07/03/24	TKE	WHT
100% OWNER REVIEW	08/16/24	TKE	WHT
AHCA STAGE III	11/13/24	TKE	WHT

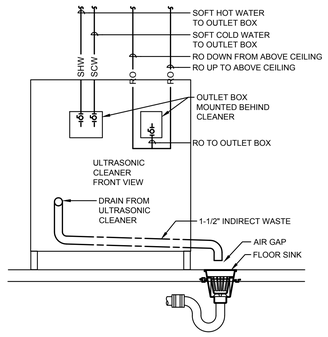
REVISIONS

#	DATE	COMMENTS

CRA PROJ.#: 23102
PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE
DETAILS - PLUMBING

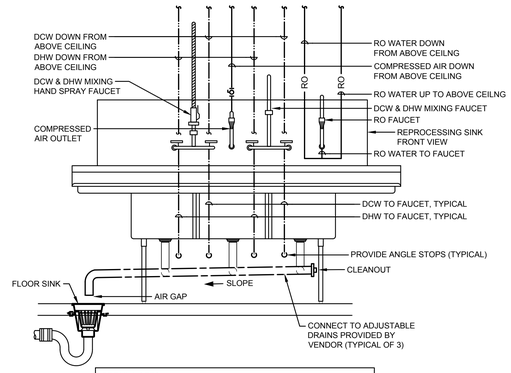
P5.1



DETAIL NOTES:

1. UNIT MAY BE MIRRORED FROM THAT SHOWN, REFER TO FLOOR PLANS.
2. REFER TO FLOOR PLANS FOR ALL CONNECTION SIZES AND ROUTING LOCATIONS.
3. COORDINATE EXACT PLACEMENT OF FLOOR SINKS WITH PLACEMENT OF EQUIPMENT IN FIELD. TERMINATE ALL DRAINS TO FLOOR SINKS WITH AN AIR GAP.

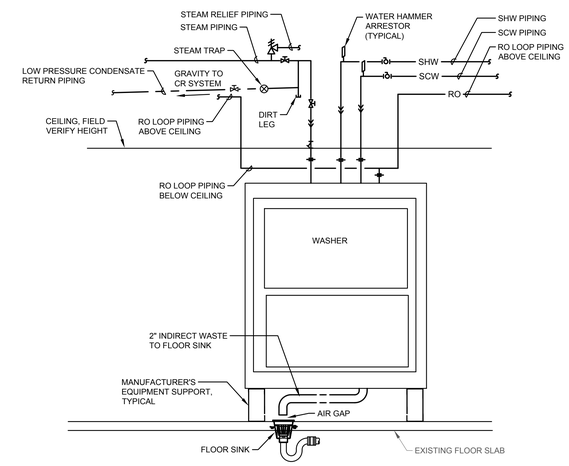
4 ULTRASONIC CLEANER CONNECTION DETAIL SCALE: NONE



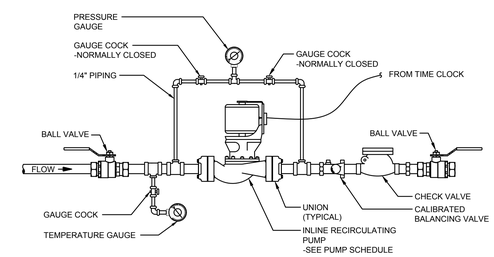
DETAIL NOTES:

1. CONNECTIONS SHALL BE MADE BEHIND AND BENEATH SINK.
2. UNIT MAY BE MIRRORED FROM THAT SHOWN, REFER TO FLOOR PLANS AND VENDOR DRAWINGS.
3. REFER TO FLOOR PLANS FOR ALL CONNECTION SIZES AND ROUTING LOCATIONS.

3 REPROCESSING SINK CONNECTION DETAIL SCALE: NONE



1 WASHER CONNECTION DETAIL SCALE: NONE



2 DOMESTIC SOFT HOT WATER RETURN PUMP DETAIL SCALE: NONE

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RICHARD LINDBURG
PE#: 62829
WESLEY THIOPEN, JR
PE#: 65705

SUBMITTAL

PHASE	DATE	DRAWN	CHECK
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SDE CD's	07/03/24	–	–
VOLUME OWNER REVIEW	08/16/24	–	–
AHCA STAGE III	11/13/24	TKE	WHT

REVISIONS

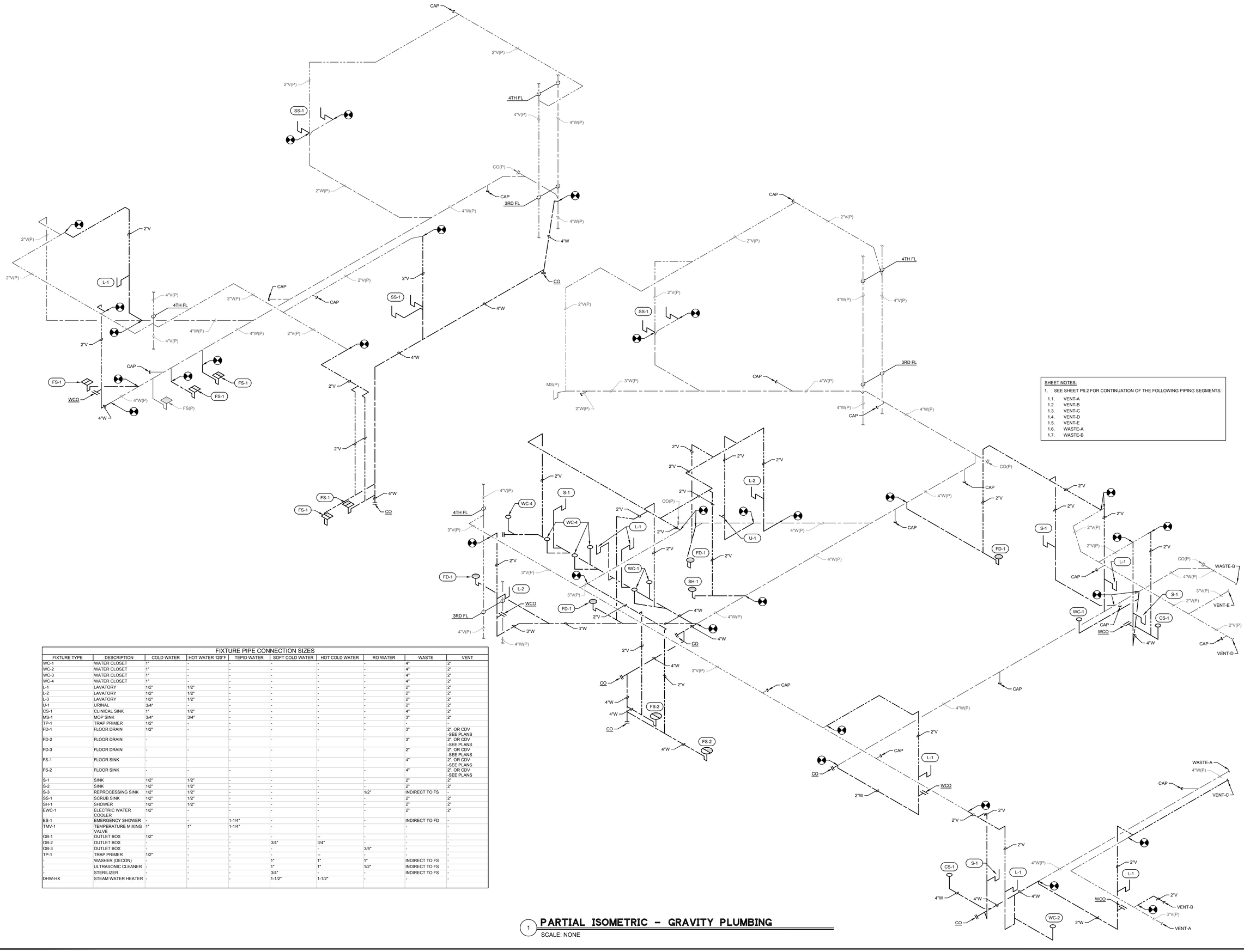
#	DATE	COMMENTS

CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE
DETAILS – PLUMBING

P5.2



SHEET NOTES:

1. SEE SHEET P6.2 FOR CONTINUATION OF THE FOLLOWING PIPING SEGMENTS:
   - 1.1. VENT-A
   - 1.2. VENT-B
   - 1.3. VENT-C
   - 1.4. VENT-D
   - 1.5. VENT-E
   - 1.6. WASTE-A
   - 1.7. WASTE-B

FIXTURE PIPE CONNECTION SIZES

FIXTURE TYPE	DESCRIPTION	COLD WATER	HOT WATER 120°F	TEPID WATER	SOFT COLD WATER	HOT COLD WATER	RO WATER	WASTE	VENT
WC-1	WATER CLOSET	1"	-	-	-	-	-	4"	2"
WC-2	WATER CLOSET	1"	-	-	-	-	-	4"	2"
WC-3	WATER CLOSET	1"	-	-	-	-	-	4"	2"
WC-4	WATER CLOSET	1"	-	-	-	-	-	4"	2"
L-1	LAVATORY	1/2"	1/2"	-	-	-	-	2"	2"
L-2	LAVATORY	1/2"	1/2"	-	-	-	-	2"	2"
L-3	LAVATORY	1/2"	1/2"	-	-	-	-	2"	2"
U-1	URINAL	3/4"	-	-	-	-	-	2"	2"
CS-1	CLINICAL SINK	1"	1/2"	-	-	-	-	4"	2"
MS-1	MOP SINK	3/4"	3/4"	-	-	-	-	3"	2"
TP-1	TRAP PRIMER	1/2"	-	-	-	-	-	-	-
FD-1	FLOOR DRAIN	1/2"	-	-	-	-	-	3"	2", OR CDV -SEE PLANS
FD-2	FLOOR DRAIN	-	-	-	-	-	-	3"	2", OR CDV -SEE PLANS
FD-3	FLOOR DRAIN	-	-	-	-	-	-	2"	2", OR CDV -SEE PLANS
FS-1	FLOOR SINK	-	-	-	-	-	-	4"	2", OR CDV -SEE PLANS
FS-2	FLOOR SINK	-	-	-	-	-	-	4"	2", OR CDV -SEE PLANS
S-1	SINK	1/2"	1/2"	-	-	-	-	2"	2"
S-2	SINK	1/2"	1/2"	-	-	-	-	2"	2"
S-3	REPROCESSING SINK	1/2"	1/2"	-	-	-	1/2"	INDIRECT TO FS	-
SS-1	SCRUB SINK	1/2"	1/2"	-	-	-	-	2"	2"
SH-1	SHOWER	1/2"	1/2"	-	-	-	-	2"	2"
EWC-1	ELECTRIC WATER COOLER	1/2"	-	-	-	-	-	2"	2"
ES-1	EMERGENCY SHOWER	-	-	1-1/4"	-	-	-	INDIRECT TO FD	-
TMV-1	TEMPERATURE MIXING VALVE	1"	1"	1-1/4"	-	-	-	-	-
OB-1	OUTLET BOX	1/2"	-	-	-	--	-	-	-
OB-2	OUTLET BOX	-	-	-	3/4"	3/4"	-	-	-
OB-3	OUTLET BOX	-	-	-	-	-	3/4"	-	-
TP-1	TRAP PRIMER	1/2"	-	-	-	--	-	-	-
	WASHER (DECON)	-	-	-	1"	1"	1"	INDIRECT TO FS	-
-	ULTRASONIC CLEANER	-	-	-	1"	1"	1/2"	INDIRECT TO FS	-
-	STERILIZER	-	-	-	3/4"	-	-	INDIRECT TO FS	-
DHW-HX	STEAM WATER HEATER	-	-	-	1-1/2"	1-1/2"	-	-	-

1 **PARTIAL ISOMETRIC - GRAVITY PLUMBING**

SCALE: NONE

WALL RATING LEGEND

- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
- ♦♦ — 2 HOUR FIRE
- ♦♦ S — 2 HOUR FIRE/SMOKE

TOMAHAWK ENGINEERING & CONSULTING, INC.
1940 Buford Boulevard Tallahassee, FL 32308
Phone: 850-402-3040
Fax: 850-877-5135
Certificate of Authorization #: 29709
Tomahawk Project #: 24002

Tallahassee Memorial HealthCare

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AHCA LOG No.: 23/100135-000

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RICHARD LINDBURG
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SUBMITTAL

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SCE CD's	07/03/24	TKE	WHT
SCE OWNER REVIEW	08/16/24	TKE	WHT
AHCA SCHGE II	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

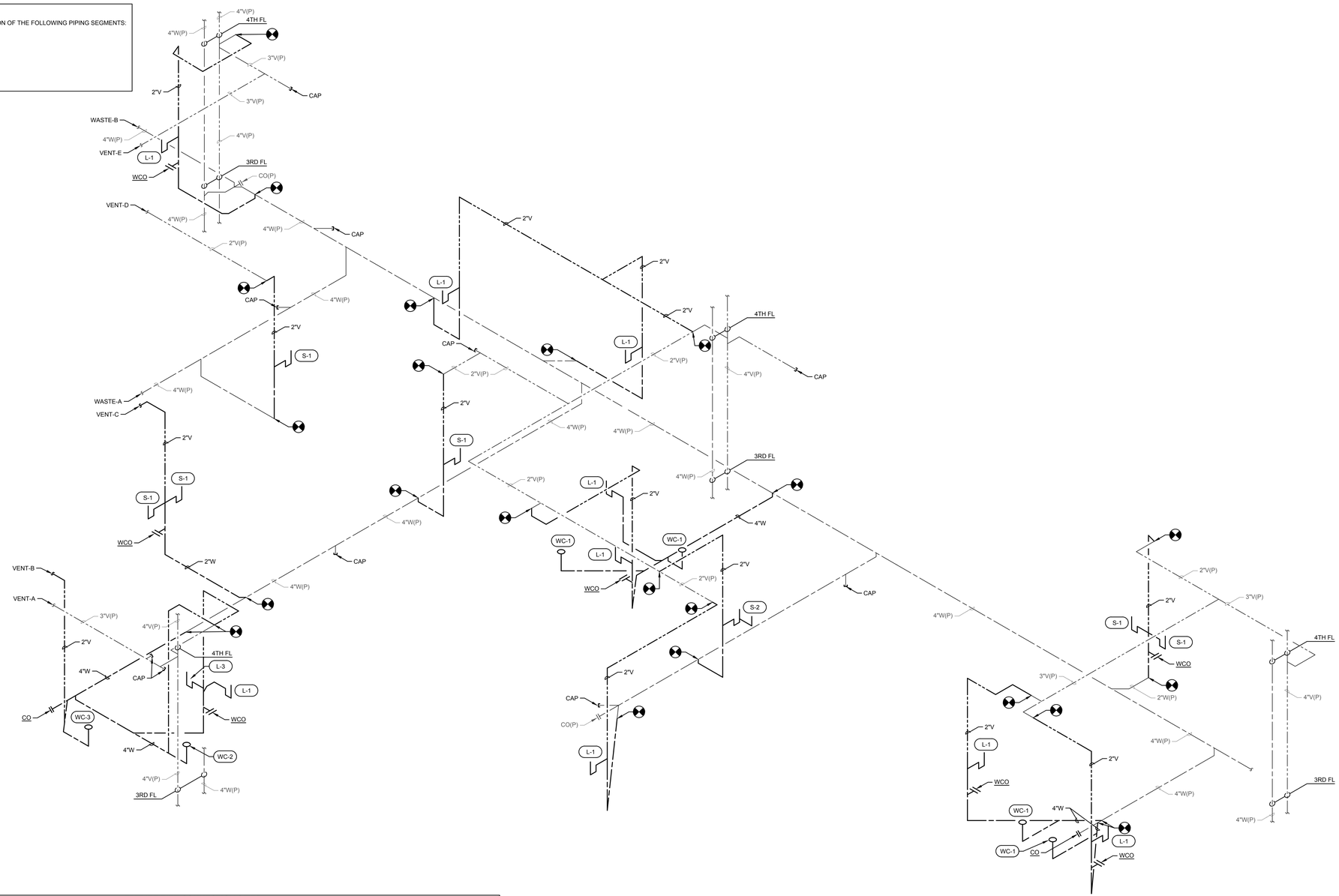
SHEET TITLE

PARTIAL ISOMETRIC - GRAVITY PLUMBING

P6.1

SHEET NOTES:

1. SEE SHEET P6.1 FOR CONTINUATION OF THE FOLLOWING PIPING SEGMENTS:
   - 1.1. VENT-A
   - 1.2. VENT-B
   - 1.3. VENT-C
   - 1.4. VENT-D
   - 1.5. VENT-E
   - 1.6. WASTE-A
   - 1.7. WASTE-B



FIXTURE PIPE CONNECTION SIZES									
FIXTURE TYPE	DESCRIPTION	COLD WATER	HOT WATER 120°F	TEPID WATER	SOFT COLD WATER	HOT COLD WATER	RO WATER	WASTE	VENT
WC-1	WATER CLOSET	1"	-	-	-	-	-	4"	2"
WC-2	WATER CLOSET	1"	-	-	-	-	-	4"	2"
WC-3	WATER CLOSET	1"	-	-	-	-	-	4"	2"
WC-4	WATER CLOSET	1"	-	-	-	-	-	4"	2"
L-1	LAVATORY	1/2"	1/2"	-	-	-	-	2"	2"
L-2	LAVATORY	1/2"	1/2"	-	-	-	-	2"	2"
L-3	LAVATORY	1/2"	1/2"	-	-	-	-	2"	2"
U-1	URINAL	3/4"	-	-	-	-	-	2"	2"
CS-1	CLINICAL SINK	1"	1/2"	-	-	-	-	4"	2"
MS-1	MOP SINK	3/4"	3/4"	-	-	-	-	3"	2"
TP-1	TRAP PRIMER	1/2"	-	-	-	-	-	-	-
FD-1	FLOOR DRAIN	1/2"	-	-	-	-	-	3"	2", OR CDV -SEE PLANS
FD-2	FLOOR DRAIN	-	-	-	-	-	-	3"	2", OR CDV -SEE PLANS
FD-3	FLOOR DRAIN	-	-	-	-	-	-	2"	2", OR CDV -SEE PLANS
FS-1	FLOOR SINK	-	-	-	-	-	-	4"	2", OR CDV -SEE PLANS
FS-2	FLOOR SINK	-	-	-	-	-	-	4"	2", OR CDV -SEE PLANS
S-1	SINK	1/2"	1/2"	-	-	-	-	2"	2"
S-2	SINK	1/2"	1/2"	-	-	-	-	2"	2"
S-3	REPROCESSING SINK	1/2"	1/2"	-	-	-	1/2"	INDIRECT TO FS	-
SS-1	SCRUB SINK	1/2"	1/2"	-	-	-	-	2"	2"
SH-1	SHOWER	1/2"	1/2"	-	-	-	-	2"	2"
EWC-1	ELECTRIC WATER COOLER	1/2"	-	-	-	-	-	2"	2"
ES-1	EMERGENCY SHOWER	-	-	1-1/4"	-	-	-	INDIRECT TO FD	-
TMV-1	TEMPERATURE MIXING VALVE	1"	1"	1-1/4"	-	-	-	-	-
OB-1	OUTLET BOX	1/2"	-	-	-	--	-	-	-
OB-2	OUTLET BOX	-	-	-	3/4"	3/4"	-	-	-
OB-3	OUTLET BOX	-	-	-	-	-	3/4"	-	-
TP-1	TRAP PRIMER	1/2"	-	-	-	--	-	-	-
-	WASHER (DECON)	-	-	-	1"	1"	1"	INDIRECT TO FS	-
-	ULTRASONIC CLEANER	-	-	-	1"	1"	1/2"	INDIRECT TO FS	-
-	STERILIZER	-	-	-	3/4"	-	-	INDIRECT TO FS	-
DHW-HX	STEAM WATER HEATER	-	-	-	1-1/2"	1-1/2"	-	-	-

1 **PARTIAL ISOMETRIC - GRAVITY PLUMBING**

SCALE: NONE

WALL RATING LEGEND

- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
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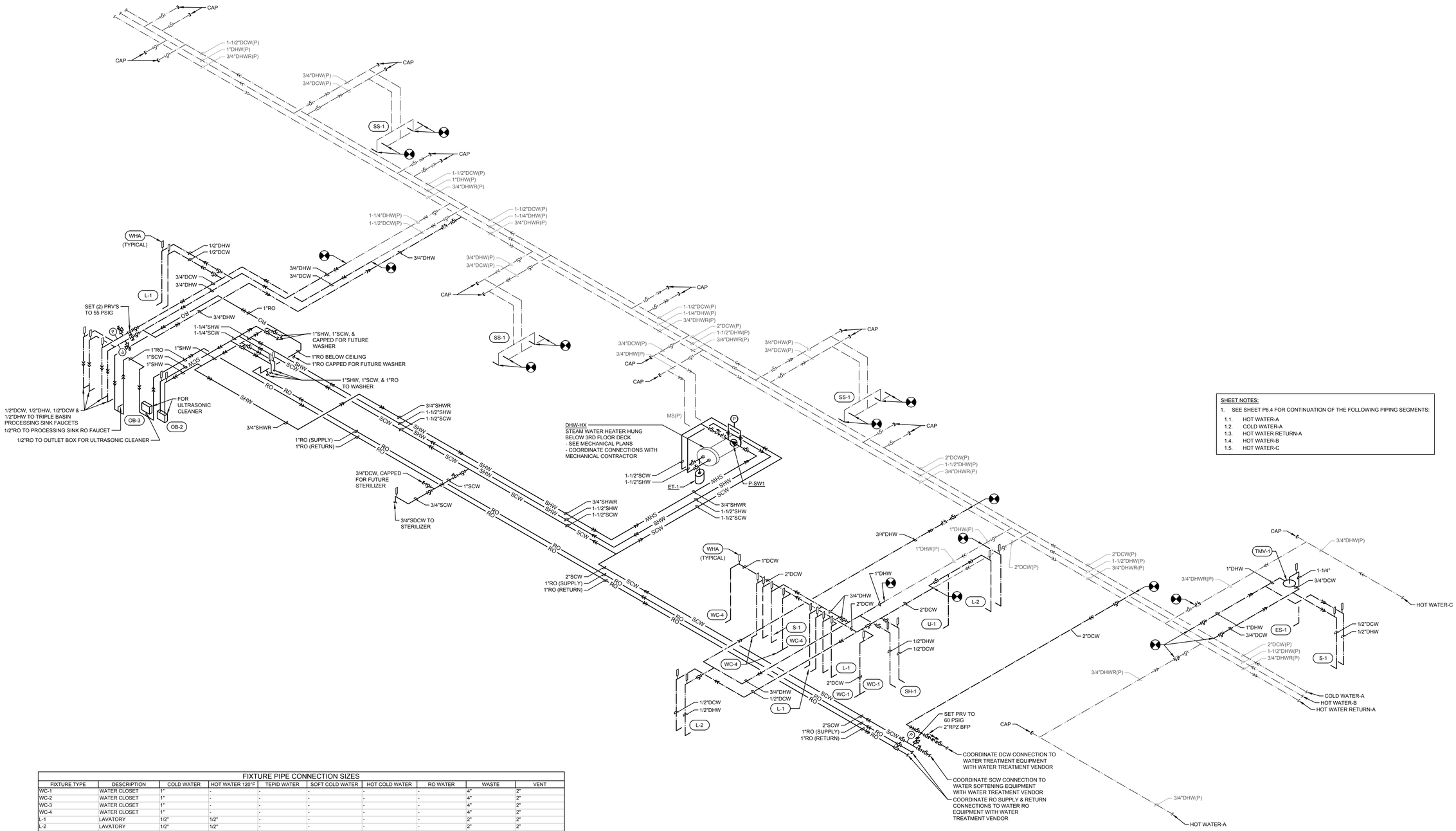
PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE
PARTIAL ISOMETRIC - GRAVITY PLUMBING

P6.2



SHEET NOTES:

1. SEE SHEET P6.4 FOR CONTINUATION OF THE FOLLOWING PIPING SEGMENTS:
   - 1.1. HOT WATER-A
   - 1.2. COLD WATER-A
   - 1.3. HOT WATER RETURN-A
   - 1.4. HOT WATER-B
   - 1.5. HOT WATER-C

FIXTURE PIPE CONNECTION SIZES

FIXTURE TYPE	DESCRIPTION	COLD WATER	HOT WATER 120°F	TEPID WATER	SOFT COLD WATER	HOT COLD WATER	RO WATER	WASTE	VENT
WC-1	WATER CLOSET	1"	-	-	-	-	-	4"	2"
WC-2	WATER CLOSET	1"	-	-	-	-	-	4"	2"
WC-3	WATER CLOSET	1"	-	-	-	-	-	4"	2"
WC-4	WATER CLOSET	1"	-	-	-	-	-	4"	2"
L-1	LAVATORY	1/2"	1/2"	-	-	-	-	2"	2"
L-2	LAVATORY	1/2"	1/2"	-	-	-	-	2"	2"
L-3	LAVATORY	1/2"	1/2"	-	-	-	-	2"	2"
U-1	URINAL	3/4"	-	-	-	-	-	2"	2"
CS-1	CLINICAL SINK	1"	1/2"	-	-	-	-	4"	2"
MS-1	MOP SINK	3/4"	3/4"	-	-	-	-	3"	2"
TP-1	TRAP PRIMER	1/2"	-	-	-	-	-	-	-
FD-1	FLOOR DRAIN	1/2"	-	-	-	-	-	3"	2", OR CDV -SEE PLANS
FD-2	FLOOR DRAIN	-	-	-	-	-	-	3"	2", OR CDV -SEE PLANS
FD-3	FLOOR DRAIN	-	-	-	-	-	-	2"	2", OR CDV -SEE PLANS
FS-1	FLOOR SINK	-	-	-	-	-	-	4"	2", OR CDV -SEE PLANS
FS-2	FLOOR SINK	-	-	-	-	-	-	4"	2", OR CDV -SEE PLANS
S-1	SINK	1/2"	1/2"	-	-	-	-	2"	2"
S-2	SINK	1/2"	1/2"	-	-	-	-	2"	2"
S-3	REPROCESSING SINK	1/2"	1/2"	-	-	-	1/2"	INDIRECT TO FS	-
SS-1	SCRUB SINK	1/2"	1/2"	-	-	-	-	2"	2"
SH-1	SHOWER	1/2"	1/2"	-	-	-	-	2"	2"
EWC-1	ELECTRIC WATER COOLER	1/2"	-	-	-	-	-	2"	2"
ES-1	EMERGENCY SHOWER	-	-	1-1/4"	-	-	-	INDIRECT TO FD	-
TMV-1	TEMPERATURE MIXING VALVE	1"	1"	1-1/4"	-	-	-	-	-
OB-1	OUTLET BOX	1/2"	-	-	-	--	-	-	-
OB-2	OUTLET BOX	-	-	-	3/4"	3/4"	-	-	-
OB-3	OUTLET BOX	-	-	-	-	-	3/4"	-	-
TP-1	TRAP PRIMER	1/2"	-	-	-	--	-	-	-
-	WASHER (DECON)	-	-	-	1"	1"	1"	INDIRECT TO FS	-
-	ULTROSONIC CLEANER	-	-	-	1"	1"	1/2"	INDIRECT TO FS	-
-	STERILIZER	-	-	-	3/4"	-	-	INDIRECT TO FS	-
DHW-HX	STEAM WATER HEATER	-	-	-	1-1/2"	1-1/2"	-	-	-

1 **PARTIAL ISOMETRIC - PRESSURE PLUMBING**

SCALE: NONE

WALL RATING LEGEND

- S — SMOKE TIGHT
- ♦ — 1 HOUR FIRE
- ♦ S — 1 HOUR FIRE/SMOKE
- ♦♦ — 2 HOUR FIRE
- ♦♦ S — 2 HOUR FIRE/SMOKE

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Phone: 850-402-3040
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Certificate of Authorization #: 29709
Tomahawk Project #: 24002

Tallahassee Memorial HealthCare

P.O.B. II THIRD FLOOR: SINGLE DAY SUGERY RENOVATION

AHCA LOG No.: 23/100135-000

1405 CENTERVILLE RD. TALLAHASSEE, FL

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Planners
Interior Designers
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WESLEY H. THIGPEN, JR. LICENSE No. 65705 STATE OF FLORIDA EXPIRES 02-28-25 PROFESSIONAL ENGINEER

RICHARD LINDBURG
PE#: 62829
WESLEY THIGPEN, JR
PE#: 65705

SUBMITTAL

PHASE	DATE	DRAWN	CHECK
SCHEMATICS	02/26/24	-	-
AHCA SINGLE X HOUR DD	05/31/24	TKE	WHT
SDR CD's	07/03/24	TKE	WHT
AHCA OWNER REVIEW	08/16/24	TKE	WHT
AHCA SINGLE X	11/13/24	TKE	WHT

REVISIONS

#	DATE	COMMENTS

CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

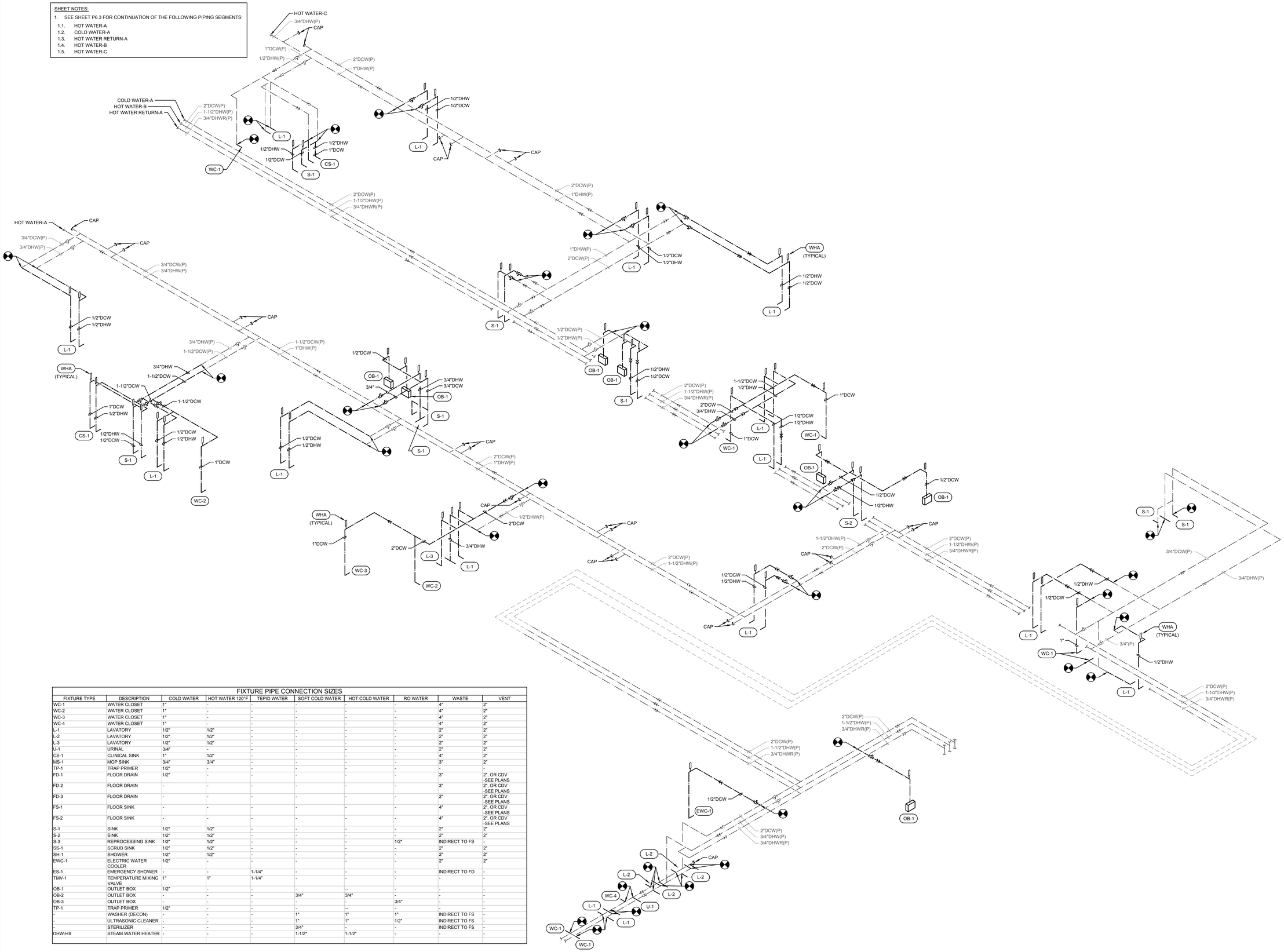
SHEET TITLE

PARTIAL ISOMETRIC - PRESSURE PLUMBING

P6.3

SHEET NOTES:

1. SEE SHEET P6.3 FOR CONTINUATION OF THE FOLLOWING PIPING SEGMENTS:
   - 1.1. HOT WATER-A
   - 1.2. COLD WATER-A
   - 1.3. HOT WATER RETURN-A
   - 1.4. HOT WATER-B
   - 1.5. HOT WATER-C



FIXTURE PIPE CONNECTION SIZES									
FIXTURE TYPE	DESCRIPTION	COLD WATER	HOT WATER 120°F	TEPID WATER	SOFT COLD WATER	HOT COLD WATER	RO WATER	WASTE	VENT
WC-1	WATER CLOSET	1"	-	-	-	-	-	4"	2"
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L-2	LAVATORY	1/2"	1/2"	-	-	-	-	2"	2"
L-3	LAVATORY	1/2"	1/2"	-	-	-	-	2"	2"
U-1	URINAL	3/4"	-	-	-	-	-	2"	2"
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TP-1	TRAP PRIMER	1/2"	-	-	-	-	-	-	-
FD-1	FLOOR DRAIN	1/2"	-	-	-	-	-	3"	2", OR CDV -SEE PLANS
FD-2	FLOOR DRAIN	-	-	-	-	-	-	3"	2", OR CDV -SEE PLANS
FD-3	FLOOR DRAIN	-	-	-	-	-	-	2"	2", OR CDV -SEE PLANS
FS-1	FLOOR SINK	-	-	-	-	-	-	4"	2", OR CDV -SEE PLANS
FS-2	FLOOR SINK	-	-	-	-	-	-	4"	2", OR CDV -SEE PLANS
S-1	SINK	1/2"	1/2"	-	-	-	-	2"	2"
S-2	SINK	1/2"	1/2"	-	-	-	-	2"	2"
S-3	REPROCESSING SINK	1/2"	1/2"	-	-	-	1/2"	INDIRECT TO FS	-
SS-1	SCRUB SINK	1/2"	1/2"	-	-	-	-	2"	2"
SH-1	SHOWER	1/2"	1/2"	-	-	-	-	2"	2"
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OB-1	OUTLET BOX	1/2"	-	-	-	--	-	-	-
OB-2	OUTLET BOX	-	-	-	3/4"	3/4"	-	-	-
OB-3	OUTLET BOX	-	-	-	-	-	3/4"	-	-
TP-1	TRAP PRIMER	1/2"	-	-	-	--	-	-	-
-	WASHER (DECON)	-	-	-	1"	1"	1"	INDIRECT TO FS	-
-	ULTRASONIC CLEANER	-	-	-	1"	1"	1/2"	INDIRECT TO FS	-
-	STERILIZER	-	-	-	3/4"	-	-	INDIRECT TO FS	-
DHW-HX	STEAM WATER HEATER	-	-	-	1-1/2"	1-1/2"	-	-	-

1 **PARTIAL ISOMETRIC – PRESSURE PLUMBING**

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REVISIONS

#	DATE	COMMENTS

CRA PROJ.#: 23102

PHASE: 100% DESIGN DEVELOPMENT

SHEET TITLE

PARTIAL ISOMETRIC – PRESSURE PLUMBING

P6.4