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Project Architect:

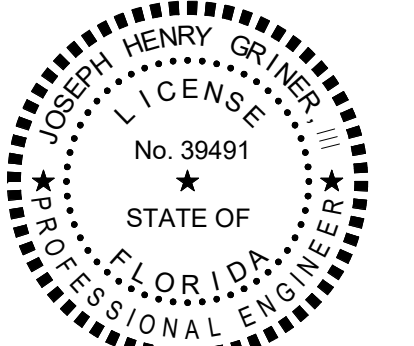


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Seal & Signature:



Joseph H. Griner III, P.E.
Florida P.E. 39491

Project Name:

Proposed New
Ambulatory
Surgery Center

SmartCare Surgery
Center

Project Number: 23011.01
Project Location:

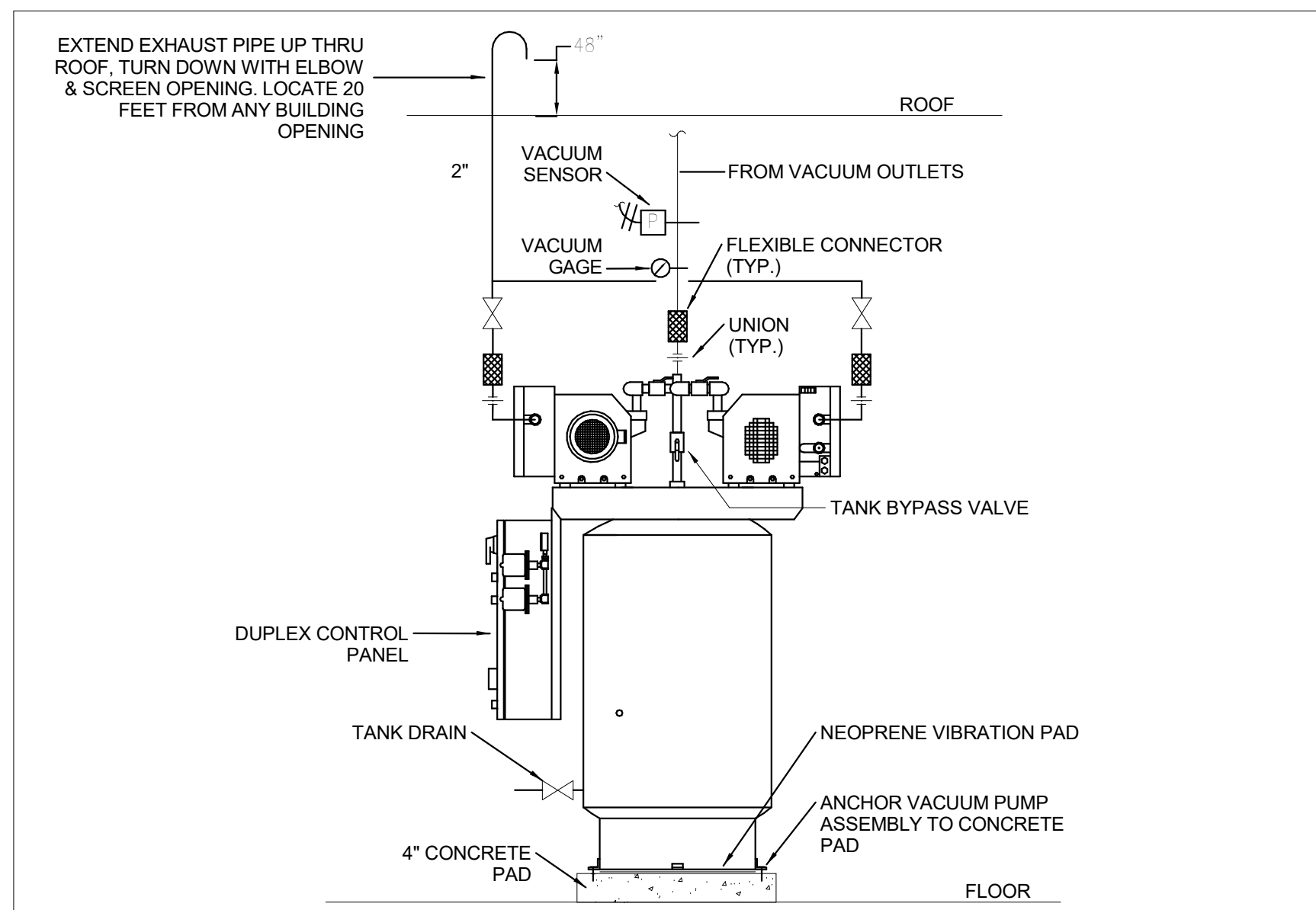
6200 Lake Osprey Dr, Lakewood Ranch, FL
34240

CONSTRUCTION DOCUMENTS

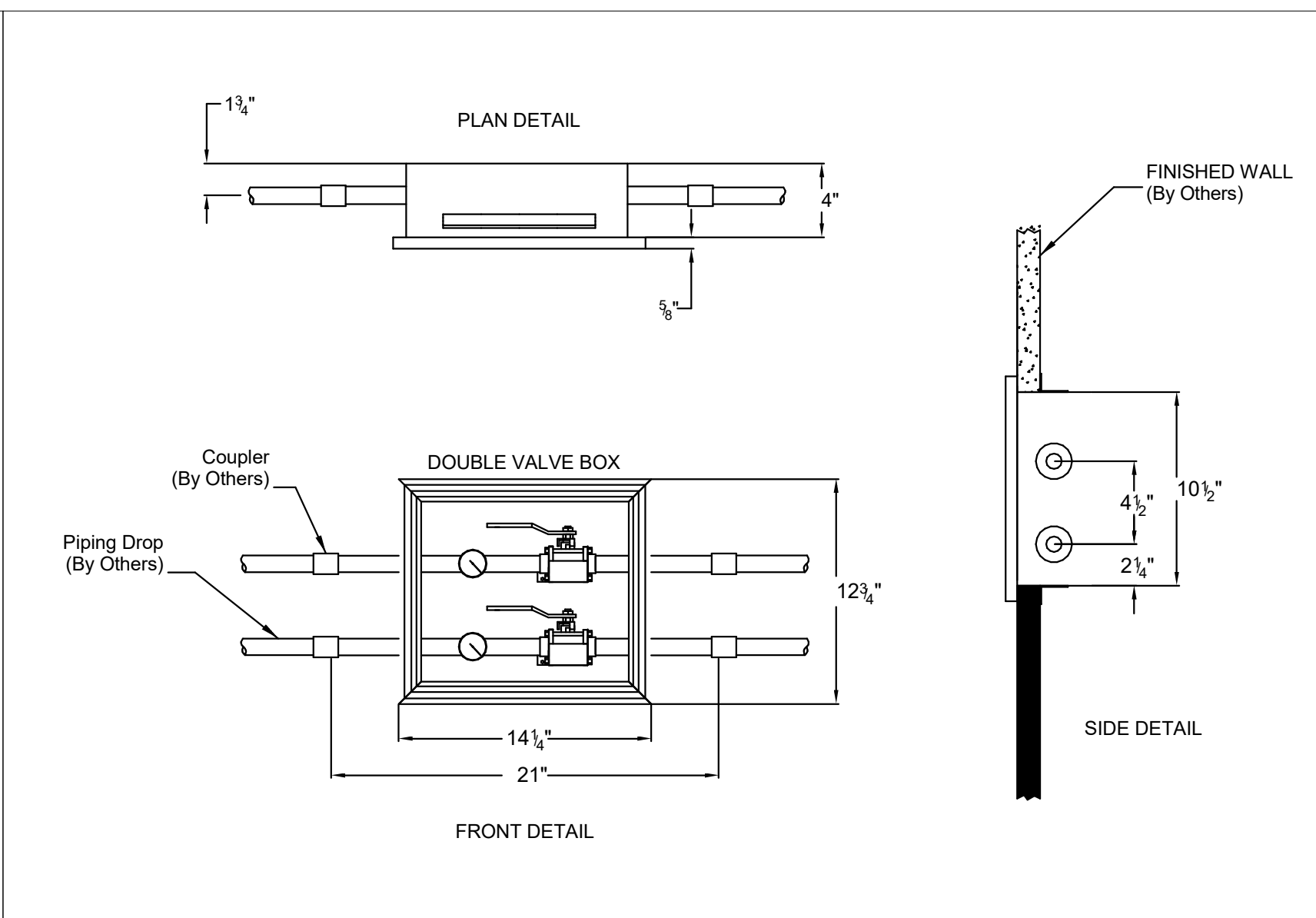
Issue Date: 7/19/2024

REVISIONS

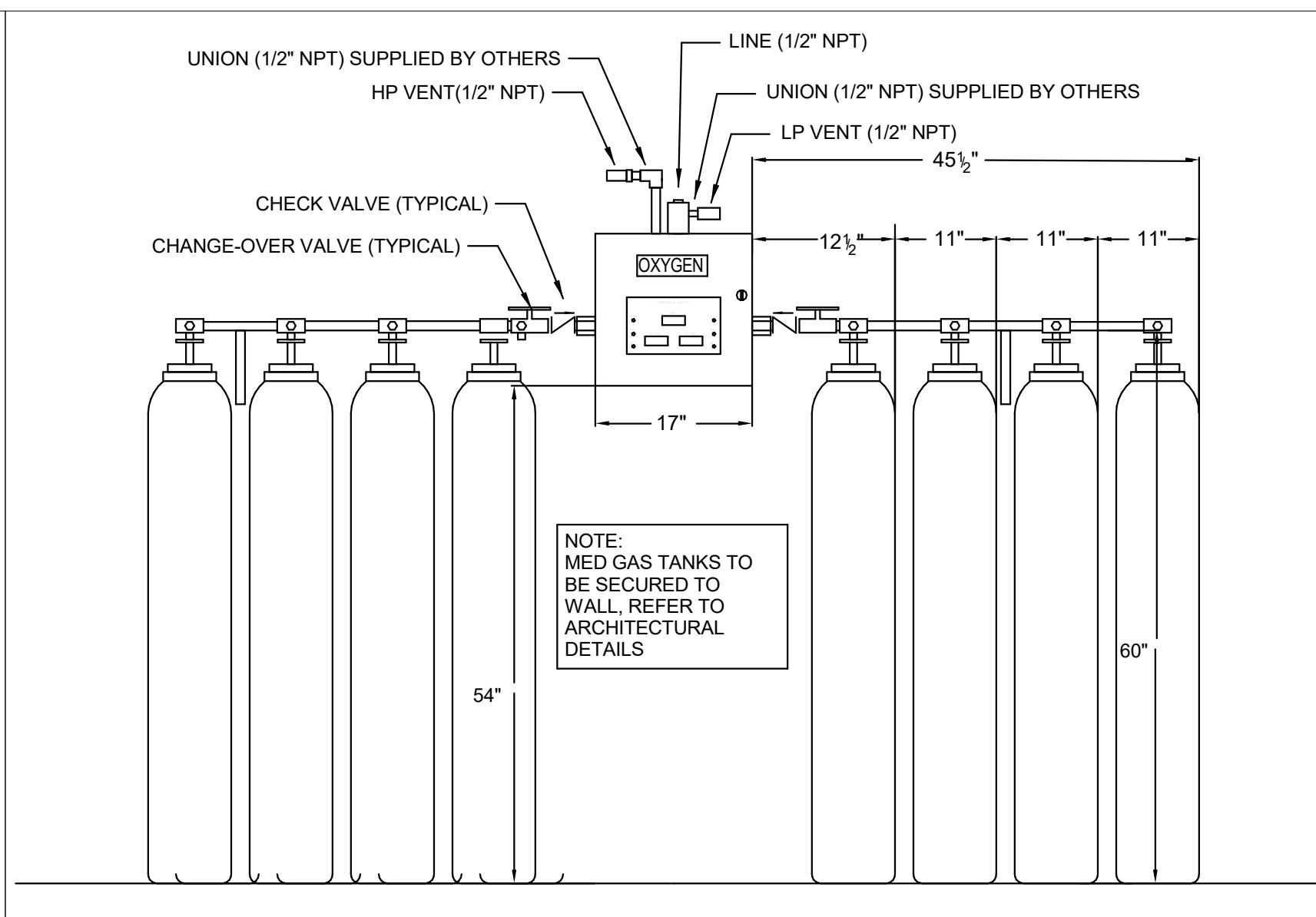
No.	Description	Date
1	ADD #1	10/28/24



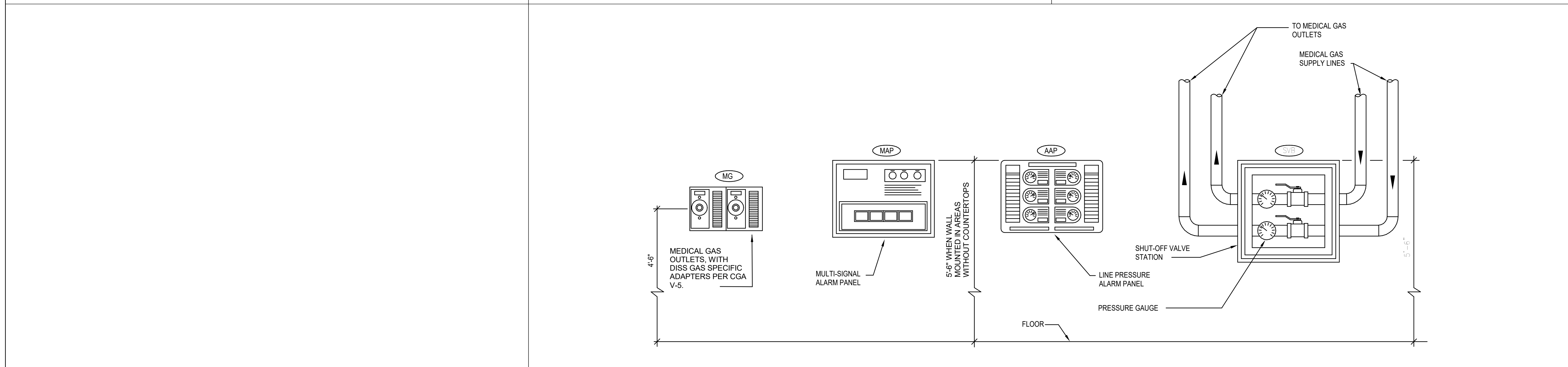
EXISTING DUPLEX VACUUM PUMP DETAIL



RECESSED VALVE BOX DETAIL - DUPLEX



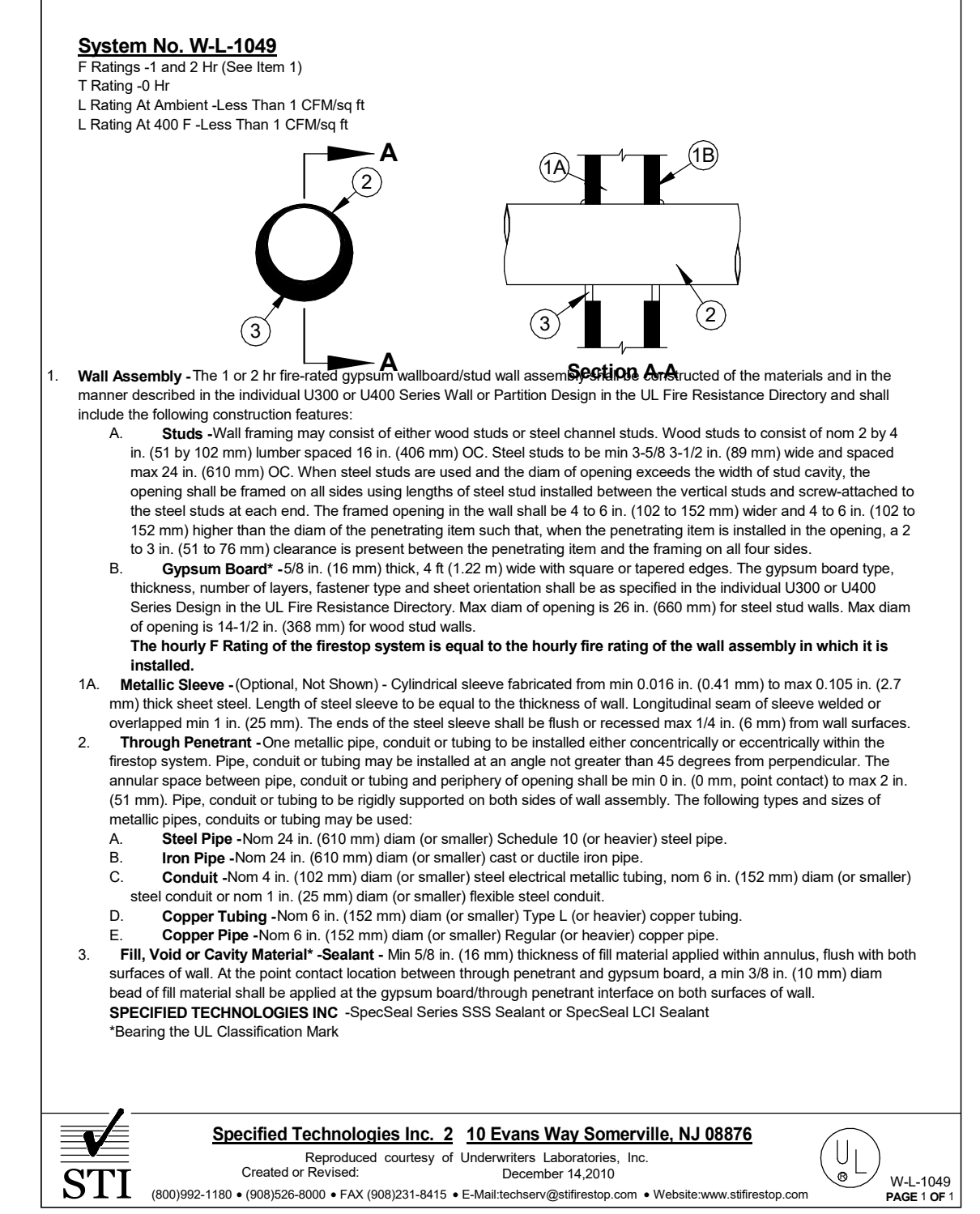
EXISTING GAS MANIFOLD DETAIL - DIGITAL DUAL LINE REGULATOR



MEDICAL GAS EQUIPMENT DETAIL

MEDICAL GAS EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MARK	DESCRIPTION	NOTES
(MG)	WALL OUTLETS: (1) OXYGEN, (1) VACUUM, (1) SLIDE, WALL QUICK CONNECT. (SEE NOTE #1).	(OM)	OXYGEN MANIFOLD AND SOURCE VALVE.	NOTES: 1. WALL OUTLETS SHALL BE DISS TYPE RECESSED, QUICK CONNECT, KEY STYLE PROVIDE EACH VACUUM OUTLET SHALL BE FURNISHED WITH WALL MOUNTED SLIDE ACCESSORIES. 2. THE MEDICAL GAS CYLINDERS SHALL BE ADEQUATELY SECURED TO THE WALL TO PREVENT THEM FROM FALLING OR BEING KNOCKED OVER.
(MG2)	CEILING OUTLETS: (2) OXYGEN, (3) VACUUM, (1) NITROUS OXIDE, (1) WAGO, (1) SLIDE, WALL QUICK CONNECT. (SEE NOTE #1). PROVIDE AMICO ALERT-1 HOSE ASSEMBLIES AND AMICO #5-HOSE-RET-HD HOSE RETRACTOR.	(NOM)	NITROUS OXIDE MANIFOLD AND SOURCE VALVE.	
(MG3)	WALL OUTLETS: (1) INSTRUMENT AIR, (1) VACUUM, QUICK CONNECT. (SEE NOTE #1).	(SVB)	TWO ZONE VALVES AND BOX ASSEMBLY W/PRESSURE GAUGES FOR OXYGEN AND VACUUM. SHUTOFF VALVE SHALL BE BALL-TYPE (DOUBLE SEAL) WITH CAST BRONZE BODY, QUARTER TURN AND CHROME PLATED BRASS BALL. PRESSURE GAUGES FOR OXYGEN AND VACUUM SERVICES COMPLETE ASSEMBLY FOR RECESSED VALVE BOX. (SEE PLAN FOR LOCATIONS).	
(MG4)	WALL OUTLETS: (1) VACUUM, QUICK CONNECT. (SEE NOTE #1).	(SBB)	TWO O.R. SUITE ISOLATION VALVES AND BOX ASSEMBLY W/PRESSURE GAUGES FOR OXYGEN AND VACUUM. SHUTOFF VALVE SHALL BE BALL-TYPE (DOUBLE SEAL) WITH CAST BRONZE BODY, QUARTER TURN AND CHROME PLATED BRASS BALL. PRESSURE GAUGES FOR OXYGEN AND VACUUM SERVICES COMPLETE ASSEMBLY FOR RECESSED VALVE BOX. (SEE PLAN FOR LOCATIONS).	
(P-1)	"OIL LESS" MEDICAL ROTARY DUPLEX VACUUM PUMP AND SOURCE VALVE; AMICO LUBRICATED DUPLEX "SPACE SAVER" VACUUM SYSTEM #V-RV-D-120P-TS-N-050. THE VACUUM PUMP PACKAGE ASSEMBLY SHALL INCLUDE DIRECT DRIVEN VACUUM PUMPS, 120 GAL VACUUM RECEIVER (ASME CODE STAMPED), INTAKE PIPING, FLEXIBLE CONNECTORS, ISOLATION VALVES, CHECK VALVES, INTERCONNECTING PIPING AND FITTINGS, DUPLEX CONTROL SYSTEM (NEMA 12 & UL LABELLED). THE CONTROL SYSTEM SHALL PROVIDE AUTOMATIC LEADLAG SEQUENCING WITH CIRCUIT BREAKER DISCONNECTS FOR EACH VACUUM PUMP WITH EXTERNAL OPERATORS, FULL VOLTAGE MOTOR STARTERS WITH OVERLOAD PROTECTION, REDUNDANT 120V CONTROL CIRCUIT TRANSFORMERS, VISUAL AND AUDIBLE RESERVE UNIT ALARM, WITH ISOLATED CONTRACTS FOR REMOTE ALARM, HAND-OFF-AUTO LIGHTED SELECTOR SWITCHES AND RUNTIME HOUR METERS, PROGRAMMABLE LOGIC CONTROLLER (PLC) SHALL CONTROL THE AUTOMATIC ALTERATION OF BOTH VACUUM PUMPS WITH PROVISIONS FOR SIMULTANEOUS OPERATION IF REQUIRED, AND AUTOMATIC ACTIVATION OF RESERVE UNIT IF REQUIRED. THE CONTROL SYSTEM SHALL INCLUDE AN AUTOMATIC MINIMUM RUN TIME ADJUSTMENT TO CONTROL RUN TIME BASED ON DEMAND. THE VACUUM GAUGES SHALL BE PROVIDED IN THE CONTROL PANEL. THE SYSTEM SHALL BE 5 HP CONTINUOUS DUTY NEMA RATED, C-FACE, OPEN DRIP PROOF, 1800 RPM, MOTOR FOR 480V, 60 HERTZ, 3 PHASE ELECTRICAL SERVICE. THE SYSTEM CAPACITIES SHALL HAVE A MINIMUM OF 30 SCFM @ 19" Hg PER SINGLE VACUUM PUMP (RESERVE VACUUM PUMP ON STANDBY) AS PER NFPA-99 (2018) STANDARDS REQUIREMENTS. BACTERIAL VACUUM PUMP INTAKE FILTER: 1. BACTERIAL REMOVAL INLET FILTER PER PUMP. THE BACTERIAL FILTER SHALL MEET THE REQUIREMENTS OF THE DHSS FOR INFECTIOUS DISEASE UNITS WITH COMPLETE BACTERIAL REMOVAL TO 99.9% @ 0.1 MICRON. 1.1. THE BACTERIAL FILTER WILL BE DESIGNED FOR THE REMOVAL OF LIQUIDS, SOLIDS, AND SUB-MICRON PARTICLES. IT WILL BE RATED FOR ULPA OR UL MEDIA TO THE LEAST. 1.2. THE BACTERIAL FILTER WILL COME EQUIPPED WITH A PRESSURE DROP INDICATOR GAUGE, PROVIDING VISUAL STATUS OF WHEN THE ELEMENT SHOULD BE REPLACED. ELEMENTS SHOULD BE REPLACED NO MORE FREQUENT THAN TWICE ON AN ANNUAL BASIS, DEPENDING ON USAGE. 1.3. THE BACTERIAL FILTER WILL COME EQUIPPED WITH BRASS VALVES AND FITTINGS FOR CONTAMINATED LIQUID RELEASE. 1.4. THE BACTERIAL FILTER WILL HAVE AN EASY REMOVABLE AND STERILIZABLE GLASS FLASK. 1.5. THE BACTERIAL FILTER WILL COME WITH A HIGH-IMPACT AND SHATTER RESISTANCE SEE-THROUGH BUCKET.	(HLS)	LOW & HIGH PRESSURE SWITCHES: HIGH-LOW LINE PRESSURE SWITCH FOR OXYGEN AND VACUUM SERVICES SHALL BE LOCATED ON THE PIPE LINES AS PER NFPA-99 (2018) STANDARDS. THE AREA ALARM PANELS SHALL BE PROVIDED WITH PRESSURE SWITCHES FOR REMOTE INSTALLATION.	
		(MAP)	MODULAR ELECTRONIC GAS MASTER ALARM PANEL (RECESSED, WALL MOUNTED, PRE-CONFIGURATED) DIGITAL MODULE MASTER ALARM PANEL FOR MEDICAL GAS SYSTEM SHALL INCLUDE: ROUGH-IN ASSEMBLY, ANNUNCIATOR MODULE, MULTI-SIGNAL ALARM MODULES WITH REMOTE SENSORS. MASTER ALARM MODULES SHALL DISPLAY CANCELABLE AUDIBLE & NON-CANCELABLE VISUAL SIGNALS AT MASTER ALARM PANEL IN COMPLIANCE WITH NFPA-99 (2018) AND APPROPRIATELY LABELED FOR EACH REQUIRED SIGNAL.	
		(AAP)	MODULAR ELECTRONIC GAS AREA ALARM PANEL (RECESSED, WALL MOUNTED, PRE-CONFIGURATED) DIGITAL MODULE AREA ALARM PANEL FOR MEDICAL GAS SYSTEM SHALL INCLUDE: ROUGH-IN ASSEMBLY, ANNUNCIATOR MODULE, DIGITAL MODULES, WITH REMOTE SENSORS. AREA ALARM MODULES (OXYGEN AND VACUUM) SHALL DISPLAY CANCELABLE AUDIBLE & NON-CANCELABLE VISUAL SIGNALS AT AREA ALARM PANEL IN COMPLIANCE WITH NFPA-99 (2018).	
		(AC)	AIR COMPRESSOR (NON-MEDICAL INSTRUMENT AIR): SILENTAIRE TECHNOLOGY RDA 18/370 OIL FREE SILENT COMPRESSOR WITH BUILT-IN DESICCANT DRYER, 115V/60, 3/4 HP MOTOR, 4.4 CFM OUTPUT, 100 PSI, 57 DECIBELS NOISE LEVEL, 1.57 GAL. TANK.	
		(V)	VACUUM PUMP (NON-MEDICAL): WELCH VACUUM PUMP, 1/5 HP, 2.5 CFM, 28.5 HG, 1.3 AMPS, 115V/60 CORD AND PLUG.	



METALLIC PIPE THRU 1 HOUR FIRE RATED GWB WALL

11/28/2024 11:05:27 AM
Z:\26674245\MECH\MED_GAS_A\NGA_Comments_detailed.rvt

Drawing Title:
MEDICAL GAS
SCHEDULES

Drawing Number:
MG2-1

Drawn by: Author
Checked by: Checker
Scale: