FIRE SUPPRESSION ABBREVIATIONS

AAR	AUTOMATIC AIR RELEASE	FS	FLOW SWITCH
AFF	ABOVE FINISHED FLOOR	FT	FEET
AHU	AIR HANDLING UNIT	GA	GAUGE
ALV	ALARM CHECK VALVE	GC	GENERAL CONTRACTOR
AS	AUTOMATIC SPRINKLER	GPM	GALLONS PER MINUTE
BATT	BATTERY	GR	GENERATOR RUNNING
BFP	BACK FLOW PREVENTER	GF	GENERATOR FAULT
BOR	BOTTOM OF RISER	HGT	HEIGHT
CHV	CHECK VALVE	HL	HI/LOW AIR SUPERVISORY
CIS	COMMON INTELLIGIBILITY SCORE	HT	HEAT TRACING
CLG	CEILING	ID	INSIDE DIAMETER
CONT	CONTINUE/ CONTINUOUS	KH	KITCHEN HOOD SUPPRESSION SYSTEM
COR	CONTRACTING OFFICER'S REPRESENTATIVE	LH	LIGHT HAZARD
CTR	CENTER	LOC	LOCAL OPERATING CONSOLE
CV	CONTROL VALVE	MNS	MASS NOTIFICATION SYSTEM
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER	OD	OUTSIDE DIAMETER
DBA	DECIBEL A-WEIGHTED	OH	ORDINARY HAZARD
DEMO	DEMOLISH, DEMOLITION	PER	PRIMARY ELEVATOR RECALL
DC	DIRECT CURRENT	PS	PRESSURE SWITCH
DD	DUCT SMOKE DETECTOR	PSI	POUNDS PER SQUARE INCH
DH	DOOR HOLD	R	RISER/RADIUS/RETURN
DIA	DIAMETER	RCV	RISER CONTROL VALVE
DIM	DIMENSION	REQ	REQUIRED
DN	DOWN/DROP NIPPLE	RM	ROOM
E	ELEVATOR RECALL	RN	RISER NIPPLE
EA	EACH	RPZ	REDUCED PRESSURE ZONE
EAR	ELEVATOR ALTERNATE FLOOR RECALL	S	SUPPLY
EB	ELECTRIC BELL	SBV	SUPERVISED BUTTERFLY VALVE
EF	EXHAUST FAN	SCHED	SCHEDULE
EFF	ELEVATOR FIRE HAT FLASHING	SCV	SUPERVISED CONTROL VALVE
EFS	ELEVATOR FIRE HAT SOLID	SD	SMOKE DETECTOR
EH	EXTRA HAZARD	SDC	SMOKE DAMPER CONTROL
EJ	EXPANSION JOINT	SGV	SUPERVISED GATE VALVE
EL	ELEVATION	SIM	SIMILAR
ELEV	ELEVATOR	SO	SOUND SYSTEM OVERRIDE
EMER	EMERGENCY	SP	SPEAKER
EPR	ELEVATOR PRIMARY FLOOR RECALL	SPEC	SPECIFICATION
EPS	ELEVATOR SHUNT TRIP POWER MONITORING	SPKR	SPRINKLER
EQUIP	EQUIPMENT	SP/ST	SPEAKER/ STROBE
EST	ELEVATOR SHUNT TRIP	SQ	SQUARE
ETR	EXISTING TO REMAIN	SR	SLEEPING ROOM
EXIST	EXISTING	SSI	SECURITY SYSTEM INTERFACE
FA	FIRE ALARM	ST	STROBE
FMCP	FIRE ALARM/MASS NOTIFICATION CONTROL PANEL	STP	STANDPIPE
FD	FLOOR DRAIN	STOR	STORAGE
FDC	FIRE DEPARTMENT CONNECTION	STS	SHUNT TRIP SUPERVISION
FE	FIRE EXTINGUISHER	SYST	SYSTEM
FEC	FIRE EXTINGUISHER CABINET	SYST-FEED	SPRINKLER SYSTEM FEED MAIN
FFE	FINISHED FLOOR ELEVATION	TEMP	TEMPERATURE
FH	FIRE HAT	TOR	TOP OF RISER
FHV	FIRE HOSE VALVE	TS	TAMPER SWITCH
FLR	FLOOR	TYP	TYPICAL
FM	FACTORY MUTUAL	UL	UNDERWRITERS' LABORATORY
FP	FIRE PUMP	UNO	UNLESS NOTED OTHERWISE
FPE	FIRE PUMP EMERGENCY ISOLATING SWITCH OPEN	VAC	VOLT, ALTERNATING CURRENT
FPF	FIRE PUMP FAULT	W/	WITH
FPL	FIRE PUMP POWER/PHASE LOSS	WMG	WATER MOTOR GONG
FPO	FIRE PUMP POWER AVAILABLE	W/O	WITHOUT
FPP	FIRE PUMP PHASE REVERSAL	WP	WEATHERPROOF
FPR	FIRE PUMP RUNNING	WS	WET SYSTEM
FPT	FIRE PUMP TRANSFER SWITCH IN EMERGENCY POSITION	ZCA	ZONE CONTROL ASSEMBLY

FIRE SUPPRESSION LEGEND (EXISTING, DEMOLITION, NEW WORK)

- SPRINKLER PIPE
- ELBOW
- TEE
- CHECK VALVE
- CONTROL VALVE
- WATERFLOW INDICATOR
- RISER CHECK VALVE
- BACKFLOW PREVENTER
- ORDINARY HAZARD GROUP 1
- ORDINARY HAZARD GROUP 2
- EXTRA HAZARD GROUP 1
- FIRE DEPARTMENT CONNECTION
- ZONE BOUNDARY

FIRE SUPPRESSION GENERAL NOTES

1. THE FIRE PROTECTION SCOPE OF WORK INVOLVES MODIFICATIONS TO THE EXISTING FIRE SUPPRESSION SYSTEM SERVING THE AREAS IN THE PROJECT SCOPE OF WORK BOUNDARY AS INDICATED ON THE DRAWINGS AND PROVIDING A NEW WET PIPE SPRINKLER SYSTEM TO SERVE THE GENERATOR BUILDING.
2. ALL AREAS ARE TO BE PROTECTED WITH AUTOMATIC SPRINKLER SYSTEMS UNLESS OTHERWISE NOTED.
3. SYSTEMS SHALL BE DESIGNED, INSTALLED AND TESTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AS WELL AS THE FOLLOWING CODES AND STANDARDS:
   A. CRITERIA IN VA-PG-18-10 FIRE PROTECTION DESIGN MANUAL (NOVEMBER 2023)
   B. IBC - INTERNATIONAL BUILDING CODE, 2021
   C. NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2022 EDITION
   D. NFPA 70 - NATIONAL ELECTRIC CODE, 2020 EDITION
   E. NFPA 101 - LIFE SAFETY CODE, 2021 EDITION
   F. NFPA 241 - STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, 2022 EDITION
4. PROVIDE A COMPLETE, AUTOMATIC WET-TYPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 REQUIREMENTS AND VA STANDARDS IN ALL AREAS AS NOTED ON PLANS.
5. BUILDING 143 HAS AN EXISTING TO REMAIN 750 GPM @ 85 PSI RATED FIRE PUMP LOCATED IN THE SUB-BASEMENT.
6. IN GENERAL, SPRINKLERS SHALL BE ARRANGED FOR A MAXIMUM COVERAGE OF UNDER 225 SQUARE FEET PER HEAD FOR LIGHT HAZARD OCCUPANCIES AND 130 SQUARE FEET PER HEAD FOR ORDINARY HAZARD OCCUPANCIES AND 100 SF FOR EXTRA HAZARD OCCUPANCIES. COORDINATE WITH OTHER DISCIPLINES TO AVOID OBSTRUCTIONS SUCH AS LIGHTS, DIFFUSERS, ETC.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PIPING AND SPRINKLER HEADS FOR PROPER COVERAGE IN EACH AREA AND ADD ADDITIONAL HEADS TO OBTAIN PROPER COVERAGE AS REQUIRED BY VARIATIONS IN FIELD LOCATIONS AND OBSTRUCTIONS AT NO ADDITIONAL COST TO OWNER. OBTAIN FINAL APPROVED ARCHITECTURAL LAYOUTS BEFORE LAYING OUT WORKING DRAWINGS.
8. PAINT AND LABEL ALL NEW SPRINKLER PIPE IN ACCORDANCE WITH SPECIFICATION 21 13 13.
9. IN UNFINISHED ROOMS WITH NO CEILING PROVIDE UPRIGHT TYPE SPRINKLER HEADS. COORDINATE HEAD LOCATIONS WITH HVAC CONTRACTOR TO MAINTAIN ADEQUATE COVERAGE ABOVE AND BELOW LARGE DUCTWORK AND OTHER OBSTRUCTIONS AS GOVERNED BY NFPA 13.
10. CONTRACTOR SHALL SEAL ALL PIPE WALL AND FLOOR PENETRATIONS IN FIRE RATED BARRIERS WITH A LISTED FIRE STOP SYSTEM. SEE ARCHITECTURAL LIFE SAFETY PLAN FOR LOCATIONS OF SMOKE AND FIRE RATED PARTITIONS AND BARRIERS.
11. COORDINATE SPRINKLER PIPE RUNS WITH DUCTWORK, PLUMBING PIPING, AND LIGHTS. MAINTAIN 4" CLEAR ABOVE LIGHTS. DO NO INTERFERE WITH DUCT ACCESS DOORS.
12. PIPE SIZES 2" AND SMALLER SHALL BE BLACK STEEL SCHEDULE 40 WITH THREADED END CONNECTIONS. PIPE SIZES 2.5" AND LARGER SHALL BE BLACK STEEL SCHEDULE 10 WITH GROOVED CONNECTIONS. GROOVES IN SCHEDULE 10 PIPING SHALL BE ROLLED GROOVED ONLY. HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13. PROVIDE DRY SPRINKLER DROPS TO AREAS SUBJECT TO FREEZING. SPRINKLERS IN AREAS WITHOUT CEILINGS SHALL HAVE ROUGH BRASS OR FACTORY STANDARD FINISH. ALL COMPONENTS SHALL BE UL LISTED AND FM APPROVED.
13. FLUSH, TEST, AND INSPECT WATER SUPPLY AND SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 AND 25. COMMISSION SYSTEM IN ACCORDANCE WITH MANUFACTURER, NFPA 13, COR, AND COMMISSIONING AGENT REQUIREMENTS. PROVIDE COPIES OF O&M MANUALS, CORRECTED SUBMITTALS, AS-BUILT SHOP DRAWINGS, AND TWO COPIES OF NFPA 25 TO OWNER, PROVIDE SYSTEM MAINTENANCE AND OPERATION INSTRUCTIONS TO OWNER'S PERSONNEL. SCHEDULE ACCEPTANCE TESTING TO BE WITNESSED BY CONTRACTING OFFICER'S REPRESENTATIVE (COR). PROVIDE CONTRACTOR'S CERTIFICATION AND TESTING PAPERWORK PER NFPA 13 AND 25.
14. HYDRAULICALLY DESIGN SYSTEM PER NFPA 13 AND IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND VA FIRE PROTECTION DESIGN MANUAL. CALCULATED DEMAND INCLUDING HOSE STREAM REQUIREMENTS SHALL FALL NO LESS THAN 10 PERCENT BELOW THE AVAILABLE WATER SUPPLY CURVE. PROVIDE A NEW FLOW TEST IN ACCORDANCE WITH NFPA 13 AND NFPA 291 PROCEDURES. SUBMIT HYDRAULIC CALCULATIONS TO CONTRACTING OFFICER'S REPRESENTATIVE (COR).
15. PREPARE SCALED WORKING DRAWINGS IN ACCORDANCE WITH NFPA 13 SHOWING LAYOUT AND DETAILS OF SPRINKLER SYSTEM. SUBMIT DRAWINGS SHOWING LAYOUT TO CONTRACTING OFFICER'S REPRESENTATIVE (COR).
16. THE DESIGN CRITERIA FOR THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13:
   A. LIGHT HAZARD CLASSIFICATION: 0.10 GPM/SF DENSITY OVER 1500 SF FIRE AREA.
   B. ORDINARY HAZARD GROUP-1 CLASSIFICATION: 0.15 GPM/SF DENSITY OVER 1500 SF FIRE AREA.
   C. ORDINARY HAZARD GROUP-2 CLASSIFICATION: 0.20 GPM/SF DENSITY OVER 1500 SF FIRE AREA.
   D. EXTRA HAZARD GROUP-1 CLASSIFICATION: 0.30 GPM/SF DENSITY OVER 2500 SF FIRE AREA.
17. PROVIDE ADDITIONAL SPRINKLER HEADS AS REQUIRED BY CEILING CONFIGURATION TO MEET REQUIREMENTS OF NFPA 13.
18. PROVIDE FM APPROVED QUICK RESPONSE SPRINKLERS IN ALL AREAS, EXCEPT THAT STANDARD RESPONSE SPRINKLERS SHALL BE PROVIDED IN FREEZERS, REFRIGERATORS, ELEVATOR HOISTWAYS, ELEVATOR MACHINE ROOMS, AND GENERATOR ROOMS. PROVIDE FM APPROVED STANDARD RESPONSE FUSIBLE LINK TYPE SPRINKLERS IN ALL ELECTRICAL ROOMS.
19. PROVIDE HEADGUARDS FOR ALL SPRINKLERS WHERE THE SPRINKLER IS INSTALLED LESS THAN 7 FEET 6 INCHES OVER ANY FINISHED FLOOR OR WORKING PLATFORM.
20. COMPLY WITH SEISMIC DESIGN REQUIREMENTS AS NECESSARY. REFER TO STRUCTURAL DRAWINGS FOR SEISMIC DESIGN CATEGORY INFORMATION.
21. WHERE STATIC PRESSURES EXCEED 100 PSI, SPRINKLERS IN A PENDENT POSITION SHALL HAVE A CUMULATIVE HORIZONTAL LENGTH OF UNSUPPORTED ARM OVERS, BRANCHLINE ENDS, OR SPRINKLER DROP SHALL NOT EXCEED 12 INCHES. IN ADDITION, EACH HANGER CLOSEST TO THE SPRINKLER SHALL BE OF A TYPE THAT PREVENTS UPWARD MOVEMENT OF PIPING.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF PIPE ROUTING BETWEEN THE WORK AREA AND THE EXISTING BUILDING SUPPLY RISER. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF PIPE ROUTING BETWEEN THE EXISTING RISER AND THE FIRE PUMP DISCHARGE FOR HYDRAULIC CALCULATION PURPOSES. CONTRACTOR'S HYDRAULIC CALCULATIONS SHALL INDICATE ALL HYDRAULIC NODES BACK TO THE FIRE PUMP DISCHARGE ON SCALED DRAWINGS IN ACCORDANCE WITH NFPA 13.
23. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT SPRINKLER SYSTEMS REMAIN IN COMPLIANCE WITH NFPA 13 AND NFPA 241 THROUGHOUT ALL PHASES OF RENOVATIONS. EXISTING SPRINKLER SYSTEMS WHICH SERVE THE SCOPE OF WORK AREAS BEING RENOVATED SHALL BE MODIFIED TO MAINTAIN NFPA 13 COMPLIANT SPRINKLER COVERAGE THROUGHOUT EACH PHASE OF RENOVATION. THE SYSTEM SHALL BE FULLY COMPLIANT AND OPERATIONAL THROUGHOUT CONSTRUCTION EXCEPT WHEN THE RENOVATION AREAS WHICH ARE ENCLOSED WITH 1-HOUR RATED FIRE BARRIERS PER NFPA 241.

OUTAGE REQUIREMENTS

1. THERE SHALL BE NO INTERRUPTION OF THE EXISTING SPRINKLER PROTECTION, WATER, ELECTRIC OR FIRE ALARM SERVICES WITHOUT PRIOR PERMISSION OF THE COR.
2. CONTRACTOR SHALL DEVELOP AN INTERIM FIRE PROTECTION PROGRAM WHERE INTERRUPTIONS INVOLVE OCCUPIED SPACES. REQUEST IN WRITING AT LEAST ONE WEEK PRIOR TO THE PLANNED INTERRUPTION.
3. CONTRACTOR SHALL RECEIVE DIRECTION FROM THE COR TO PERFORM TIE IN OF NEW WORK AND/OR REPROGRAMMING OF OPERATING, EXISTING FIRE ALARM AND SPRINKLER SYSTEMS.

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12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION COVER SHEET	Phase: BID DOCUMENTS	Project Title: RENOVATE SURGICAL SUITE PHASE II	VA Drawing Number: 2617
		Project Number: 658-19-103	Building Number: 143
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Location: SALEM VA MEDICAL CENTER	Drawing Number: FX001
		Issue Date: 2025-12-30 / Checked: PJ / Drawn: CA	

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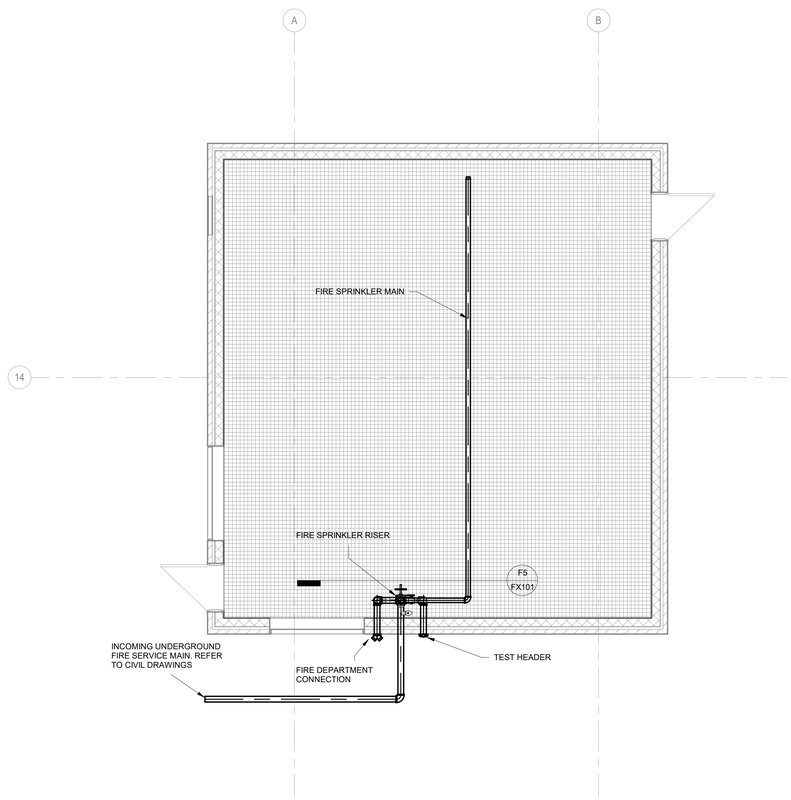
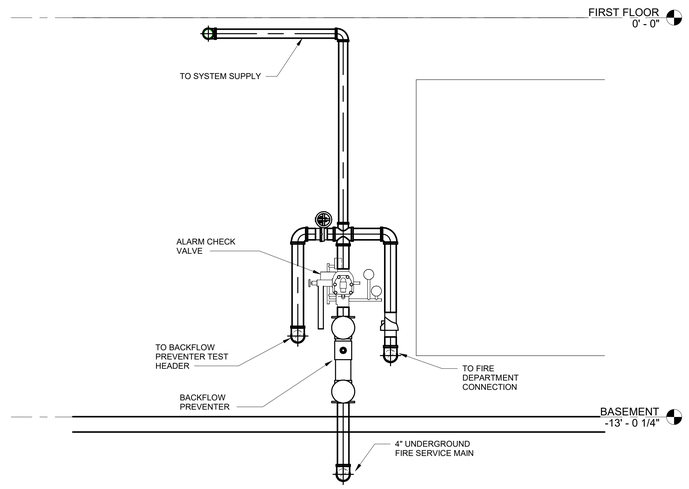


F1 GENERATOR BUILDING FIRE SUPPRESSION PLAN

1/4" = 1'-0"



F5 GENERATOR BUILDING FIRE SUPPRESSION RISER

1/2" = 1'-0"

GENERAL NOTES

1. REFER TO FX001 LEGEND FOR HAZARD CLASSIFICATION HATCHING.
2. FOR AREAS SUBJECT TO ELEVATED AMBIENT TEMPERATURES, SPRINKLER HEAD TEMPERATURE RATINGS SHALL BE IN ACCORDANCE WITH NFPA 13.
3. PROVIDE AUXILARY DRAINS AS NECESSARY IN ACCORDANCE WITH NFPA 13.
4. PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
5. PENETRATIONS OF WALLS OR FLOORS FOR SPRINKLER PIPING AND/OR EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATIONS. FIELD VERIFY EXISTING WALL PENETRATIONS AND SEAL AS REQUIRED TO MAINTAIN WALL OR FLOOR RATING.
6. EACH TRADE SHALL COORDINATE THE ROUTING AND INSTALLATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR. IN ANY INSTANCES OF CONFLICT, SYSTEMS REQUIRING "GRADE" OR "SLOPE" FOR DRAINAGE (SANITARY SEWER, SANITARY VENT, EQUIPMENT/CONDENSATE DRAINS, ETC.) SHALL HAVE PRIORITY.
7. CONTRACTOR TO COORDINATE ROUTING OF SPRINKLER PIPING WITH DUCTWORK, PIPING, AND STRUCTURE.
8. REFER TO MANUFACTURER'S LITERATURE AND INSTALLATION RECOMMENDATIONS/INSTRUCTIONS FOR EXACT SIZES AND LOCATIONS OF CONNECTIONS AND REQUIREMENTS OF OWNER FURNISHED EQUIPMENT.
9. DO NOT ROUTE PIPE ABOVE ELECTRICAL EQUIPMENT AS REQUIRED BY NFPA 13 AND NFPA 70. WHERE PIPING IS INSTALLED ABOVE THE DEDICATED ELECTRICAL SPACE, PROVIDE DRIP PANS BELOW AND ENSURE THERE ARE NO FITTINGS WITHIN THE DEDICATED ELECTRICAL SPACE.

PLAN NORTH
ACTUAL NORTH

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12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	VA Drawing Number
FIRE SUPPRESSION NEW WORK PLAN GENERATOR BUILDING	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II	2617
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Project Number 658-19-103	Building Number 143
		Location SALEM VA MEDICAL CENTER	Drawing Number FX101
		Issue Date 2025-12-30 / Checked PJ / Drawn CA	

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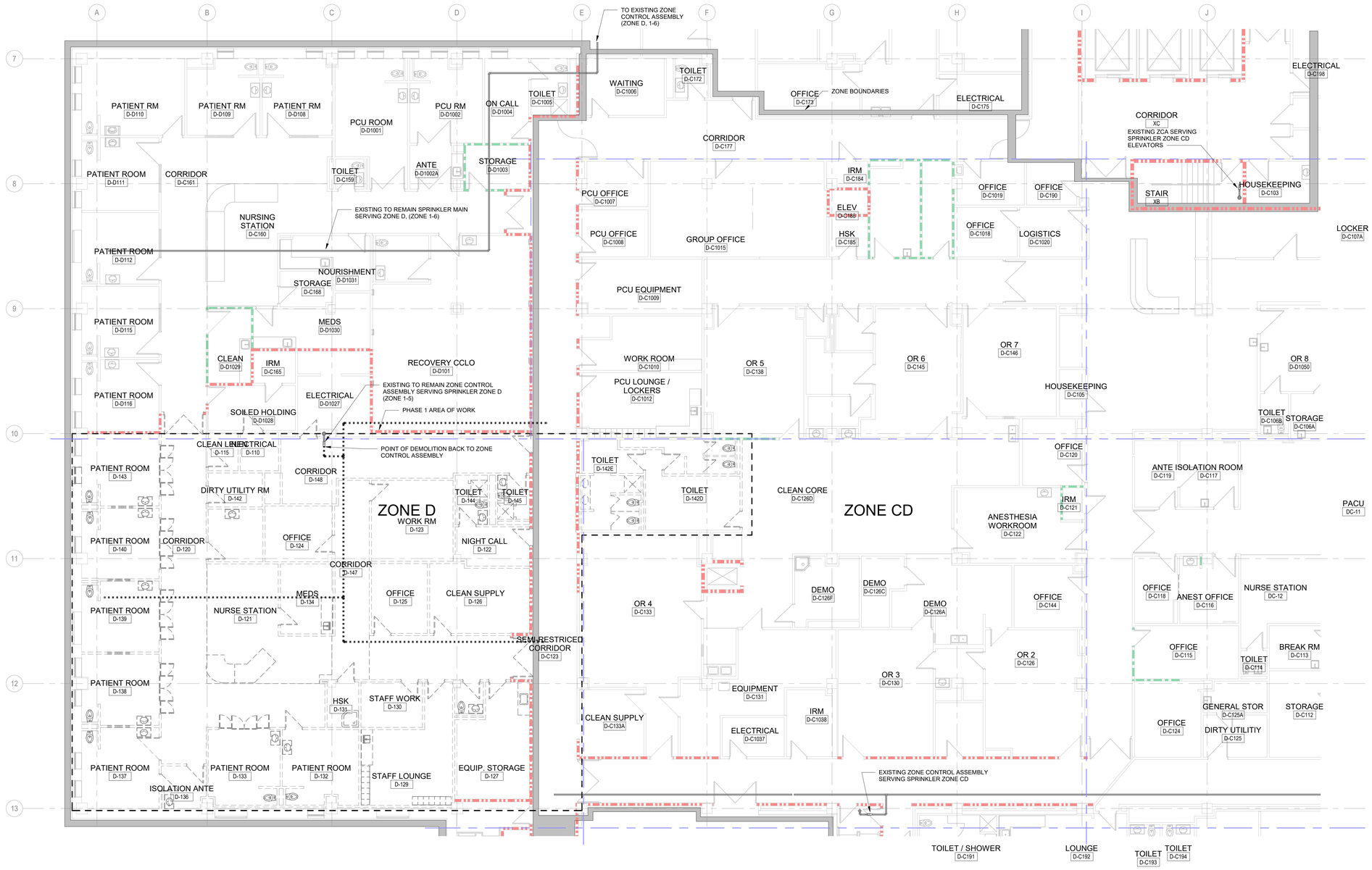


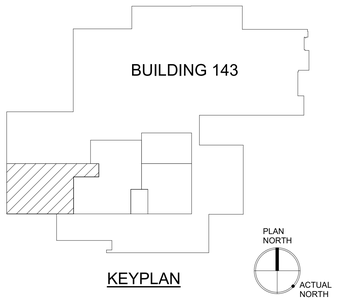
FIRST FLOOR FIRE SUPPRESSION DEMOLITION PLAN - PHASE 1

F1

1/8" = 1'-0"

GENERAL NOTES

1. DEMOLISH EXISTING SPRINKLERS AND PIPING TO ACCOMODATE NEW ARCHITECTURAL LAYOUT WITHIN THE AREA OF WORK UNLESS NOTED OTHERWISE. COORDINATE WITH VA OUTAGE REQUIREMENTS AND THE COR.
2. EXISTING SPRINKLER MAIN PIPING AND ZONING IS SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND SIZE OF PIPING AND EQUIPMENT PRIOR TO CONSTRUCTION. EXISTING CONDITIONS DETERMINED FROM LIMITED SITE INVESTIGATION AND RECORD DOCUMENTS.
3. EXISTING SMOKE ZONE BOUNDARIES SHOWN ARE BASED ON RECORD DOCUMENTATION AND GENERAL INFORMATION DRAWINGS. CONTRACTOR SHALL COORDINATE WITH THE COR AND VA PERSONNEL IF ANY DISCREPANCIES ARE DISCOVERED IN THE FIELD.
4. MAINTAIN ALL FIRE SUPPRESSION SYSTEMS CONTINUITY AND NFPA 13 COMPLIANCE (E.G. SPACING, DISTANCE TO CEILING, OBSTRUCTION REQUIREMENTS, ETC.) DURING RENOVATION. THE FIRE DEPARTMENT AND THE VA COR SHALL BE NOTIFIED IMMEDIATELY IF THE FIRE SUPPRESSION SYSTEM IS OUT OF SERVICE AND AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR ALL OCCUPANTS LEFT UNPROTECTED BY THE SHUTDOWN UNTIL THE FIRE SUPPRESSION SYSTEM HAS BEEN RETURNED TO SERVICE.
5. SPRINKLER SYSTEM IS TO REMAIN IN SERVICE THROUGHOUT PROJECT. TEMPORARILY REPLACE EXISTING PENDENT SPRINKLERS WITH UPRIGHT SPRINKLERS AND PIPING IN AREAS THAT HAVE CEILINGS REMOVED PER NFPA 241 AND NFPA 13.
6. SPRINKLER SYSTEM SHALL COMPLY WITH NFPA 13 AT THE COMPLETION OF EACH PHASE. IF NEW DEFICIENCIES IN SPRINKLER SYSTEM SPACING IN AREAS OUTSIDE OF THE CONSTRUCTION AREA ARE CREATED DUE TO DEMOLITION AND CONSTRUCTION ACTIVITIES (E.G. WHEN TEMPORARY BARRIERS ARE INSTALLED, WHEN EXISTING WALLS ARE DEMOLISHED, AND/OR WHEN NEW PERMANENT WALLS ARE INSTALLED), THE CONTRACTOR SHALL MODIFY THE EXISTING SPRINKLERS TO MAINTAIN NFPA 13 COMPLIANCE.
7. EXISTING SPRINKLER SYSTEMS OUTSIDE OF THE WORK AREA SHALL STAY ACTIVE THROUGHOUT THE PROJECT. SHUTDOWNS FOR WORK ON THE SYSTEM WITHIN THE AREA OF WORK THAT IMPACT SPRINKLER SYSTEMS OUTSIDE OF THE WORK AREA SHALL BE SCHEDULED WITH THE VA TWO WEEKS IN ADVANCE AND PROVISIONS SET IN PLACE PER NFPA 241. RESTORE SYSTEMS TO SERVICE AT THE END OF EACH WORKDAY.
8. CONTRACTOR SHALL COORDINATE WITH THE COR AND VA PERSONNEL PRIOR TO ANY WORK ON THE EXISTING SPRINKLER SYSTEM.
9. REFER TO GENERAL INFORMATION DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.



KEYPLAN

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	VA Drawing Number
FIRE SUPPRESSION DEMOLITION PLAN FIRST FLOOR PHASE 1	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II	2617
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Project Number 658-19-103	Building Number 143
		Location SALEM VA MEDICAL CENTER	Drawing Number P1-FK101
		Issue Date 2025-12-30 / Checked PJ / Drawn CA	

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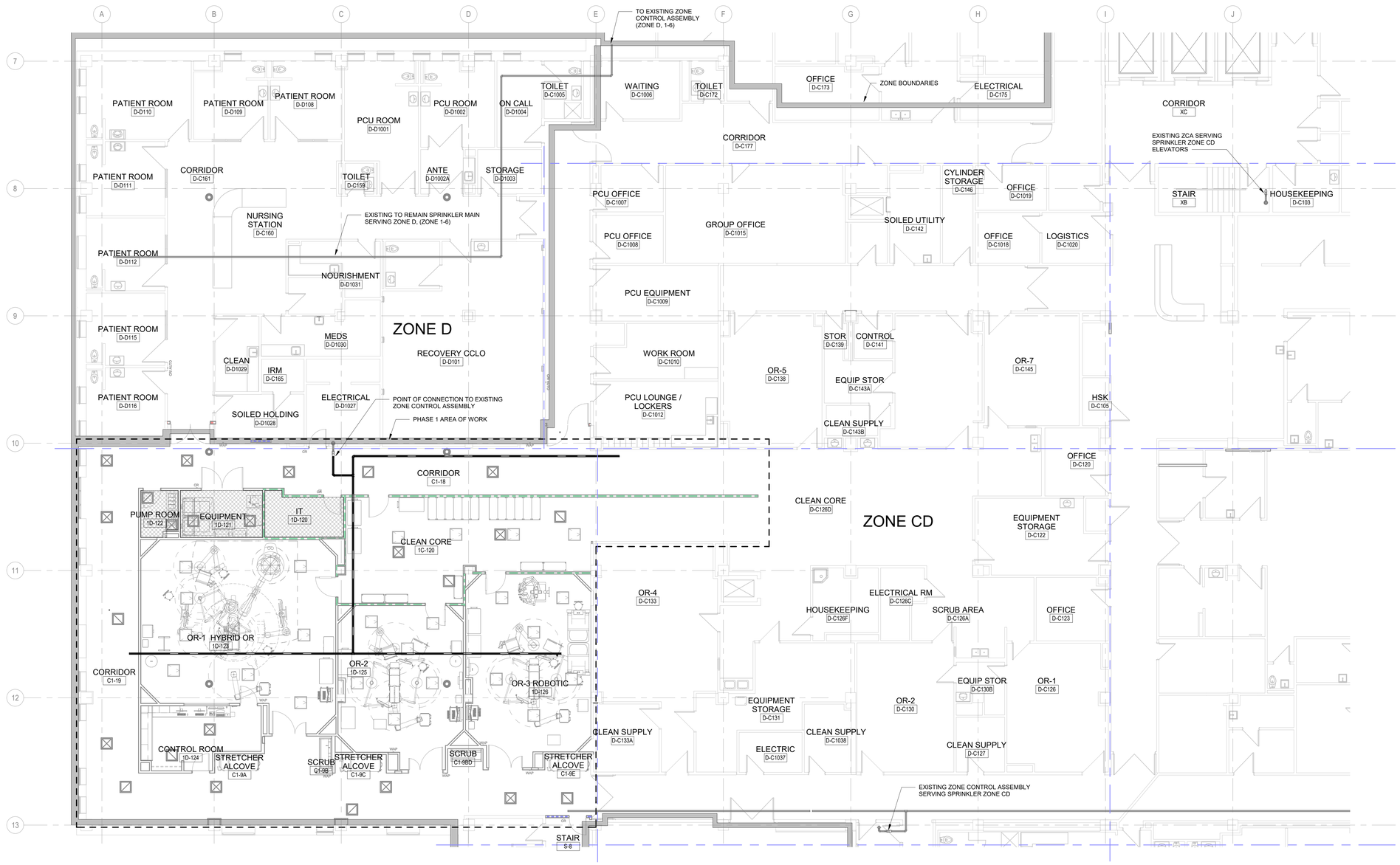


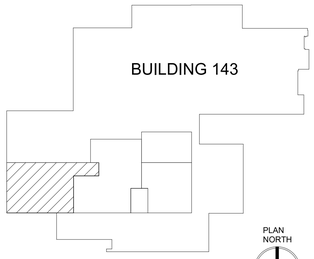
FIRST FLOOR FIRE SUPPRESSION PLAN - PHASE 1

F1

1/8" = 1'-0"

GENERAL NOTES

1. ALL AREAS ARE LIGHT HAZARD UNLESS OTHERWISE INDICATED BY HATCHING. REFER TO LEGEND BELOW FOR HAZARD CLASSIFICATION HATCHING.
2. FOR AREAS SUBJECT TO ELEVATED AMBIENT TEMPERATURES, SPRINKLER HEAD TEMPERATURE RATINGS SHALL BE IN ACCORDANCE WITH NFPA 13.
3. PROVIDE AUXILARY DRAINS AS NECESSARY IN ACCORDANCE WITH NFPA 13.
4. PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
5. PENETRATIONS OF WALLS OR FLOORS FOR SPRINKLER PIPING AND/OR EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATIONS. FIELD VERIFY EXISTING WALL PENETRATIONS AND SEAL AS REQUIRED TO MAINTAIN WALL OR FLOOR RATING.
6. EACH TRADE SHALL COORDINATE THE ROUTING AND INSTALLATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR. IN ANY INSTANCES OF CONFLICT, SYSTEMS REQUIRING "GRADE" OR "SLOPE" FOR DRAINAGE (SANITARY SEWER, SANITARY VENT, EQUIPMENT/CONDENSATE DRAINS, ETC.) SHALL HAVE PRIORITY.
7. CONTRACTOR TO COORDINATE ROUTING OF SPRINKLER PIPING WITH DUCTWORK, PIPING, AND STRUCTURE.
8. REFER TO MANUFACTURER'S LITERATURE AND INSTALLATION RECOMMENDATIONS/INSTRUCTIONS FOR EXACT SIZES AND LOCATIONS OF CONNECTIONS AND REQUIREMENTS OF OWNER FURNISHED EQUIPMENT.
9. DO NOT ROUTE SPRINKLER PIPING OVER OR THROUGH ELECTRICAL OR COMMUNICATION ROOMS UNLESS THE PIPING DIRECTLY SERVES EQUIPMENT IN THE ROOM.
10. DO NOT ROUTE PIPE ABOVE ELECTRICAL EQUIPMENT AS REQUIRED BY NFPA 13 AND NFPA 70. WHERE PIPING IS INSTALLED ABOVE THE DEDICATED ELECTRICAL SPACE, PROVIDE DRIP PANS BELOW AND ENSURE THERE ARE NO FITTINGS WITHIN THE DEDICATED ELECTRICAL SPACE.
11. CONTRACTOR SHALL COORDINATE WITH THE COR AND VA PERSONNEL PRIOR TO ANY WORK ON THE EXISTING SPRINKLER SYSTEM.
12. THE NEW SPRINKLER ZONES BOUNDARIES SHOWN SHALL MATCH THE NEW SMOKE COMPARTMENTS SHOWN IN THE GENERAL INFORMATION DRAWINGS. IF EXISTING SPRINKLERS SERVING AREAS OUTSIDE THE SCOPE OF WORK ARE FOUND TO BE AFFECTED BY THE NEW ZONING, PROVISIONS SHALL BE MADE TO PROVIDE A CONNECTION TO ITS APPROPRIATE ZONE. ALL WORK SHALL BE COORDINATED WITH THE COR AND VA PERSONNEL.
13. REFER TO GENERAL INFORMATION DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.



KEYPLAN

PLAN NORTH

ACTUAL NORTH

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Revisions: Date:

CONSULTANT

Architecture:	Civil Engineering:	Fire & Life Safety:
PF&A DESIGN, P.C.	LABELLA ASSOCIATES	STANTON ENGINEERING SERVICES, LLC

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M-R PROJECT NO. 0499-0138

STANTON ENGINEERING SERVICES PROFESSIONAL ENGINEER

PATRICK KENNETH STANTON STATE OF WASHINGTON 20106 REGISTERED PROFESSIONAL ENGINEER

12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	VA Drawing Number
FIRE SUPPRESSION NEW WORK PLAN FIRST FLOOR PHASE 1	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II	2617
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Project Number 658-19-103	Building Number 143
		Location SALEM VA MEDICAL CENTER	Drawing Number P1-FX101
		Issue Date 2025-12-30 / Checked PJ / Drawn CA	

VA FORM 08 - 6231

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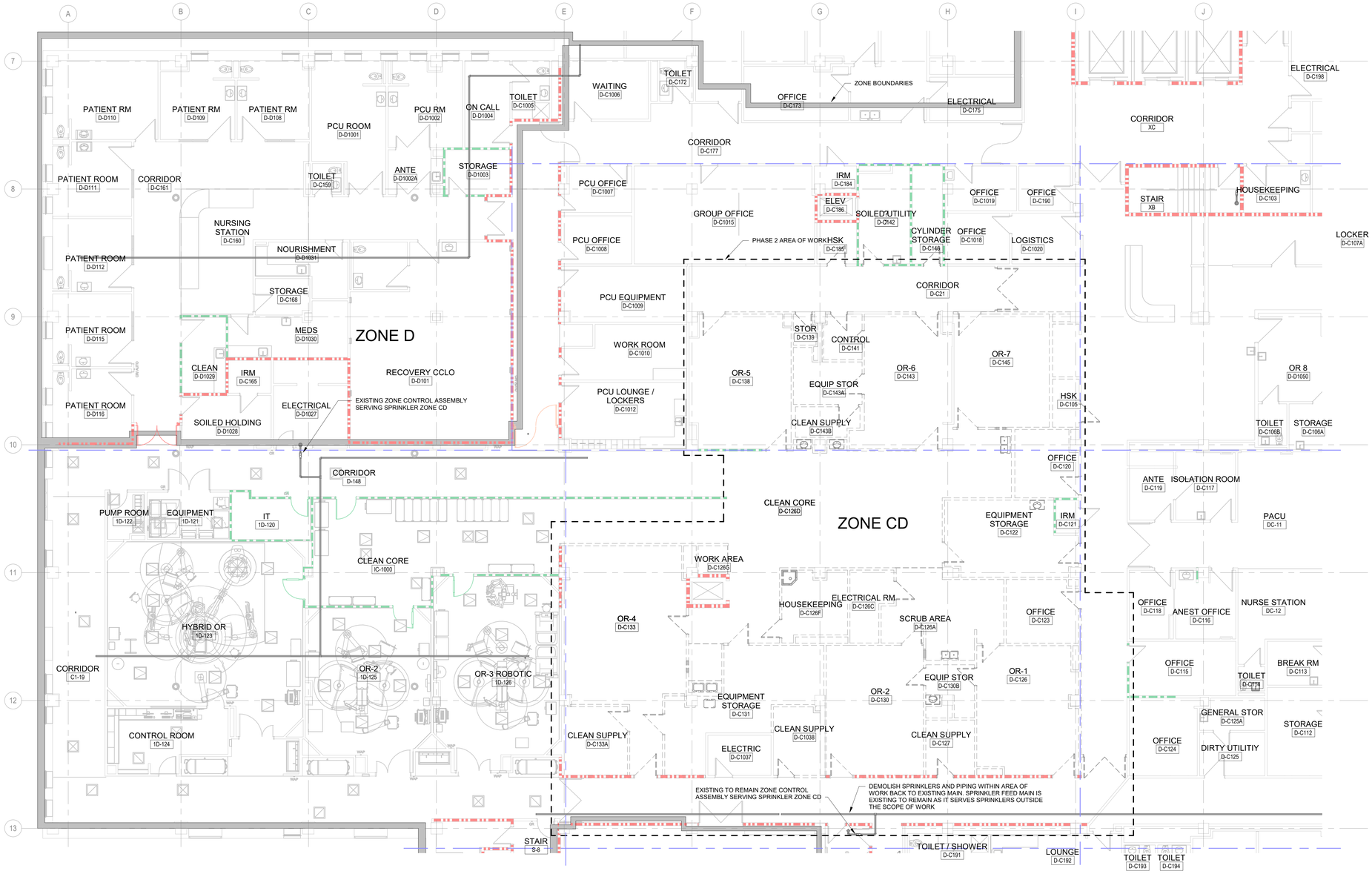
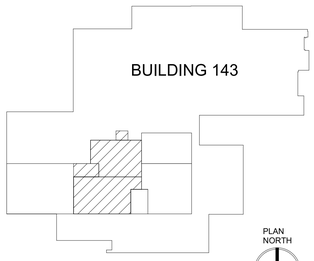


F1 FIRST FLOOR FIRE SUPPRESSION DEMOLITION PLAN - PHASE 2

1/8" = 1'-0"

GENERAL NOTES

1. DEMOLISH EXISTING SPRINKLERS AND PIPING TO ACCOMODATE NEW ARCHITECTURAL LAYOUT WITHIN THE AREA OF WORK UNLESS NOTED OTHERWISE. COORDINATE WITH VA OUTAGE REQUIREMENTS AND THE COR.
2. EXISTING SPRINKLER MAIN PIPING AND ZONING IS SHOWN IN APPROXIMATE LOCATIONS. PER RECORD DOCUMENTS, THE ZONE CD SPRINKLER MAINS ARE CONNECTED BY BRANCHLINES. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND SIZE OF PIPING AND EQUIPMENT PRIOR TO CONSTRUCTION. EXISTING CONDITIONS DETERMINED FROM LIMITED SITE INVESTIGATION AND RECORD DOCUMENTS.
3. EXISTING SMOKE ZONE BOUNDARIES SHOWN ARE BASED ON RECORD DOCUMENTATION AND GENERAL INFORMATION DRAWINGS. CONTRACTOR SHALL COORDINATE WITH THE COR AND VA PERSONNEL IF ANY DISCREPANCIES ARE DISCOVERED IN THE FIELD.
4. MAINTAIN ALL FIRE SUPPRESSION SYSTEMS CONTINUITY AND NFPA 13 COMPLIANCE (E.G. SPACING, DISTANCE TO CEILING, OBSTRUCTION REQUIREMENTS, ETC.) DURING RENOVATION. THE FIRE DEPARTMENT AND THE VA COR SHALL BE NOTIFIED IMMEDIATELY IF THE FIRE SUPPRESSION SYSTEM IS OUT OF SERVICE AND AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR ALL OCCUPANTS LEFT UNPROTECTED BY THE SHUTDOWN UNTIL THE FIRE SUPPRESSION SYSTEM HAS BEEN RETURNED TO SERVICE.
5. SPRINKLER SYSTEM IS TO REMAIN IN SERVICE THROUGHOUT PROJECT. TEMPORARILY REPLACE EXISTING PENDENT SPRINKLERS WITH UPRIGHT SPRINKLERS AND PIPING IN AREAS THAT HAVE CEILINGS REMOVED PER NFPA 241 AND NFPA 13.
6. SPRINKLER SYSTEM SHALL COMPLY WITH NFPA 13 AT THE COMPLETION OF EACH PHASE. IF NEW DEFICIENCIES IN SPRINKLER SYSTEM SPACING IN AREAS OUTSIDE OF THE CONSTRUCTION AREA ARE CREATED DUE TO DEMOLITION AND CONSTRUCTION ACTIVITIES (E.G. WHEN TEMPORARY BARRIERS ARE INSTALLED, WHEN EXISTING WALLS ARE DEMOLISHED, AND/OR WHEN NEW PERMANENT WALLS ARE INSTALLED), THE CONTRACTOR SHALL MODIFY THE EXISTING SPRINKLERS TO MAINTAIN NFPA 13 COMPLIANCE.
7. EXISTING SPRINKLER SYSTEMS OUTSIDE OF THE WORK AREA SHALL STAY ACTIVE THROUGHOUT THE PROJECT. SHUTDOWNS FOR WORK ON THE SYSTEM WITHIN THE AREA OF WORK THAT IMPACT SPRINKLER SYSTEMS OUTSIDE OF THE WORK AREA SHALL BE SCHEDULED WITH THE VA TWO WEEKS IN ADVANCE AND PROVISIONS SET IN PLACE PER NFPA 241. RESTORE SYSTEMS TO SERVICE AT THE END OF EACH WORKDAY.
8. CONTRACTOR SHALL COORDINATE WITH THE COR AND VA PERSONNEL PRIOR TO ANY WORK ON THE EXISTING SPRINKLER SYSTEM.
9. REFER TO GENERAL INFORMATION DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.



KEYPLAN

PLAN NORTH

ACTUAL NORTH

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Revisions: Date:

CONSULTANT

Architecture: PF&A DESIGN, P.C.

Civil Engineering: LABELLA ASSOCIATES

Fire & Life Safety: STANTON ENGINEERING SERVICES, LLC

ENGINEER OF RECORD

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M-R PROJECT NO. 0499-0138

STANTON ENGINEERING SERVICES PROFESSIONAL ENGINEER

PATRICK KENNETH STANTON STATE OF WASHINGTON 20020 REGISTERED PROFESSIONAL ENGINEER

12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION DEMOLITION PLAN FIRST FLOOR PHASE 2

Approved by: Jon Manninen, COR

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATE SURGICAL SUITE PHASE II

Project Number: 658-19-103

Location: SALEM VA MEDICAL CENTER

Issue Date: 2025-12-30

Checked: PJ

Drawn: CA

VA Drawing Number: 2617

Building Number: 143

Drawing Number: P2-FK101

VA FORM 08 - 6231

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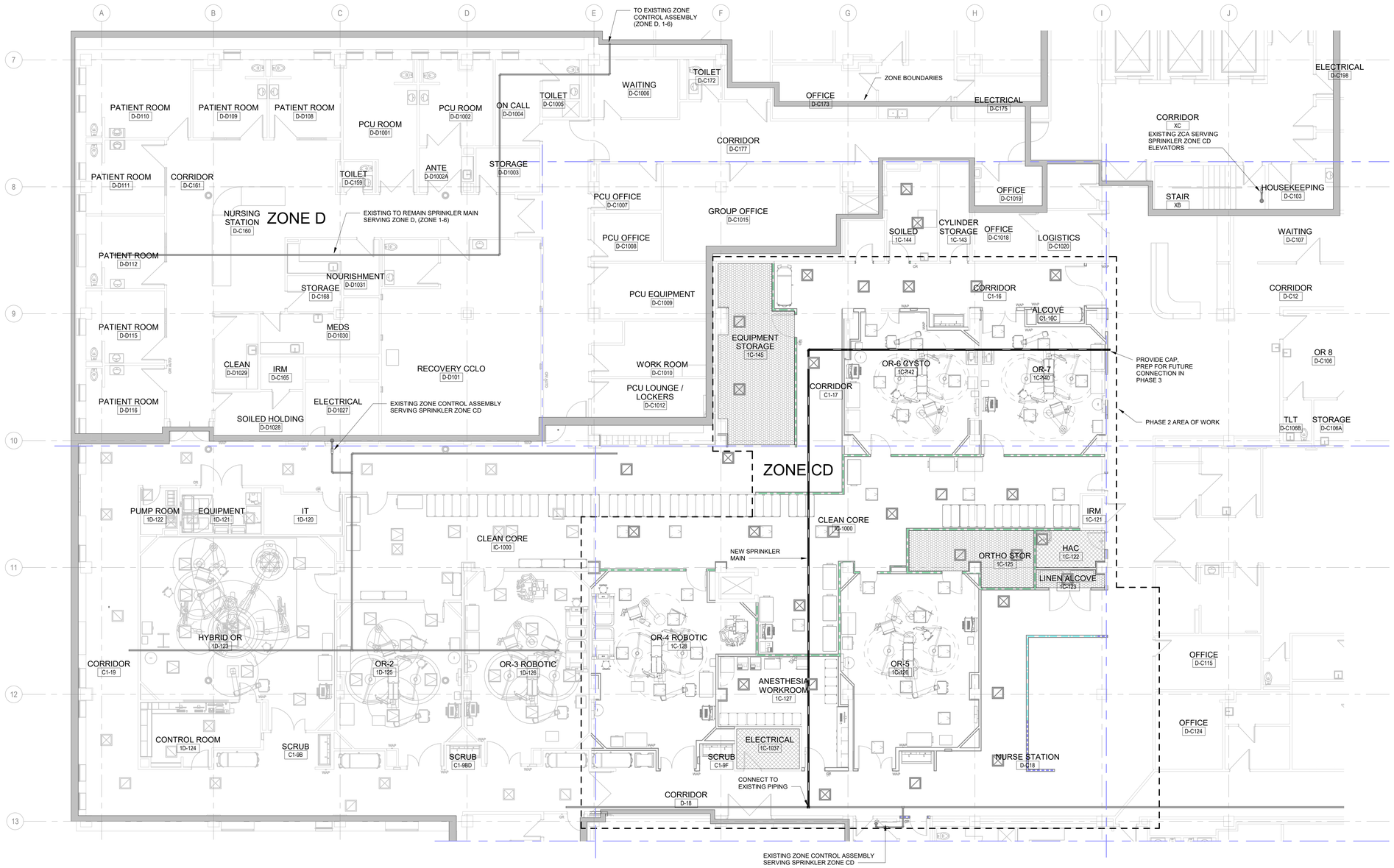
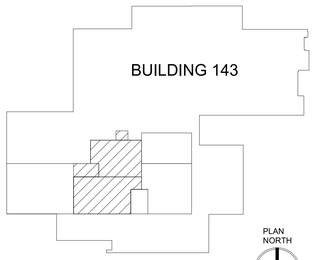


F1 FIRST FLOOR FIRE SUPPRESSION PLAN - PHASE 2

1/8" = 1'-0"

GENERAL NOTES

1. ALL AREAS ARE LIGHT HAZARD UNLESS OTHERWISE INDICATED BY HATCHING. REFER TO LEGEND BELOW FOR HAZARD CLASSIFICATION HATCHING.
2. FOR AREAS SUBJECT TO ELEVATED AMBIENT TEMPERATURES, SPRINKLER HEAD TEMPERATURE RATINGS SHALL BE IN ACCORDANCE WITH NFPA 13.
3. PROVIDE AUXILARY DRAINS AS NECESSARY IN ACCORDANCE WITH NFPA 13.
4. PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
5. PENETRATIONS OF WALLS OR FLOORS FOR SPRINKLER PIPING AND/OR EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATIONS. FIELD VERIFY EXISTING WALL PENETRATIONS AND SEAL AS REQUIRED TO MAINTAIN WALL OR FLOOR RATING.
6. EACH TRADE SHALL COORDINATE THE ROUTING AND INSTALLATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR. IN ANY INSTANCES OF CONFLICT, SYSTEMS REQUIRING "GRADE" OR "SLOPE" FOR DRAINAGE (SANITARY SEWER, SANITARY VENT, EQUIPMENT/CONDENSATE DRAINS, ETC.) SHALL HAVE PRIORITY.
7. CONTRACTOR TO COORDINATE ROUTING OF SPRINKLER PIPING WITH DUCTWORK, PIPING, AND STRUCTURE.
8. REFER TO MANUFACTURER'S LITERATURE AND INSTALLATION RECOMMENDATIONS/INSTRUCTIONS FOR EXACT SIZES AND LOCATIONS OF CONNECTIONS AND REQUIREMENTS OF OWNER FURNISHED EQUIPMENT.
9. DO NOT ROUTE SPRINKLER PIPING OVER OR THROUGH ELECTRICAL OR COMMUNICATION ROOMS UNLESS THE PIPING DIRECTLY SERVES EQUIPMENT IN THE ROOM.
10. DO NOT ROUTE PIPE ABOVE ELECTRICAL EQUIPMENT AS REQUIRED BY NFPA 13 AND NFPA 70. WHERE PIPING IS INSTALLED ABOVE THE DEDICATED ELECTRICAL SPACE, PROVIDE DRIP PANS BELOW AND ENSURE THERE ARE NO FITTINGS WITHIN THE DEDICATED ELECTRICAL SPACE.
11. CONTRACTOR SHALL COORDINATE WITH THE COR AND VA PERSONNEL PRIOR TO ANY WORK ON THE EXISTING SPRINKLER SYSTEM.
12. THE NEW SPRINKLER ZONES BOUNDARIES SHOWN SHALL MATCH THE NEW SMOKE COMPARTMENTS SHOWN IN THE GENERAL INFORMATION DRAWINGS. IF EXISTING SPRINKLERS SERVING AREAS OUTSIDE THE SCOPE OF WORK ARE FOUND TO BE AFFECTED BY THE NEW ZONING, PROVISIONS SHALL BE MADE TO PROVIDE A CONNECTION TO ITS APPROPRIATE ZONE. ALL WORK SHALL BE COORDINATED WITH THE COR AND VA PERSONNEL.
13. REFER TO GENERAL INFORMATION DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.



KEYPLAN

PLAN NORTH

ACTUAL NORTH

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VA FORM 08 - 6231

CONSULTANT

Architecture:	Civil Engineering:	Fire & Life Safety:
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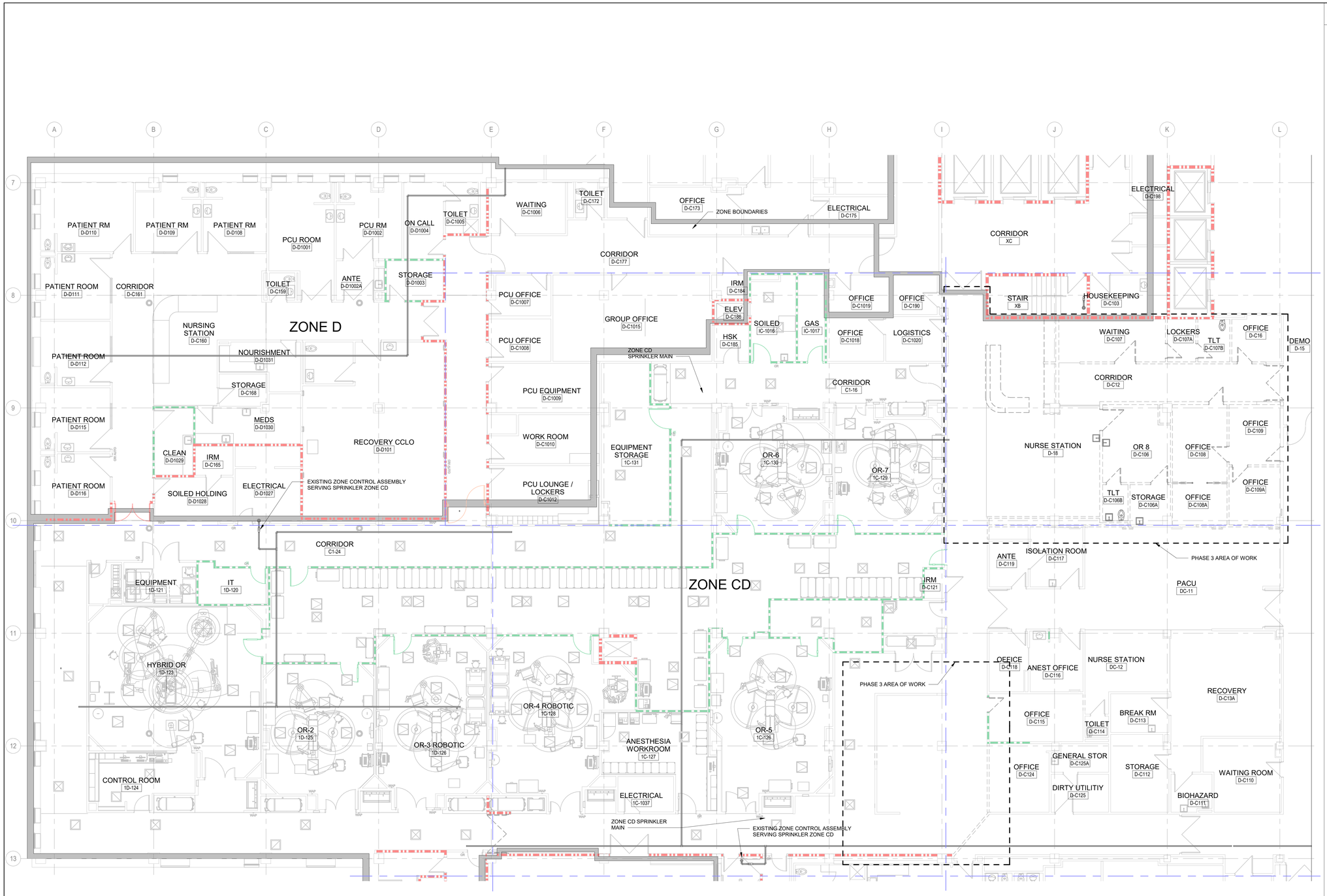
M-R PROJECT NO. 16952-139

STANTON ENGINEERING SERVICES PROFESSIONAL ENGINEER
PATRICK KENNETH STANTON
STATE OF WASHINGTON
20100250
REGISTERED PROFESSIONAL ENGINEER
12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	VA Drawing Number
FIRE SUPPRESSION NEW WORK PLAN FIRST FLOOR PHASE 2	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II	2617
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Project Number 658-19-103	Building Number 143
		Location SALEM VA MEDICAL CENTER	Drawing Number P2-FX101
		Issue Date 2025-12-30 / Checked PJ / Drawn CA	



FIRST FLOOR FIRE SUPPRESSION DEMOLITION PLAN - PHASE 3

F1 1/8" = 1'-0"

GENERAL NOTES

1. DEMOLISH EXISTING SPRINKLERS AND PIPING TO ACCOMODATE NEW ARCHITECTURAL LAYOUT WITHIN THE AREA OF WORK UNLESS NOTED OTHERWISE. COORDINATE WITH VA OUTAGE REQUIREMENTS AND THE COR.
2. EXISTING SPRINKLER MAIN PIPING AND ZONING IS SHOWN IN APPROXIMATE LOCATIONS. PER RECORD DOCUMENTS, THE ZONE CD SPRINKLER MAINS ARE CONNECTED BY BRANCHLINES. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND SIZE OF PIPING AND EQUIPMENT PRIOR TO CONSTRUCTION. EXISTING CONDITIONS DETERMINED FROM LIMITED SITE INVESTIGATION AND RECORD DOCUMENTS.
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4. MAINTAIN ALL FIRE SUPPRESSION SYSTEMS CONTINUITY AND NFPA 13 COMPLIANCE (E.G. SPACING, DISTANCE TO CEILING, OBSTRUCTION REQUIREMENTS, ETC.) DURING RENOVATION. THE FIRE DEPARTMENT AND THE VA COR SHALL BE NOTIFIED IMMEDIATELY IF THE FIRE SUPPRESSION SYSTEM IS OUT OF SERVICE AND AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR ALL OCCUPANTS LEFT UNPROTECTED BY THE SHUTDOWN UNTIL THE FIRE SUPPRESSION SYSTEM HAS BEEN RETURNED TO SERVICE.
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6. SPRINKLER SYSTEM SHALL COMPLY WITH NFPA 13 AT THE COMPLETION OF EACH PHASE. IF NEW DEFICIENCIES IN SPRINKLER SYSTEM SPACING IN AREAS OUTSIDE OF THE CONSTRUCTION AREA ARE CREATED DUE TO DEMOLITION AND CONSTRUCTION ACTIVITIES (E.G. WHEN TEMPORARY BARRIERS ARE INSTALLED, WHEN EXISTING WALLS ARE DEMOLISHED, AND/OR WHEN NEW PERMANENT WALLS ARE INSTALLED), THE CONTRACTOR SHALL MODIFY THE EXISTING SPRINKLERS TO MAINTAIN NFPA 13 COMPLIANCE.
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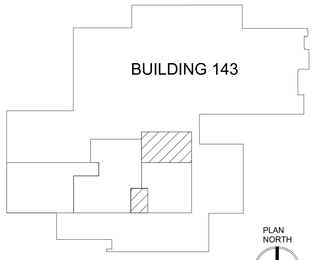

KEYPLAN

PLAN NORTH
ACTUAL NORTH

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VA FORM 08 - 6231

CONSULTANT

Architecture:	Civil Engineering:	Fire & Life Safety:
PF&A DESIGN, P.C.	LABELLA ASSOCIATES	STANTON ENGINEERING SERVICES, LLC

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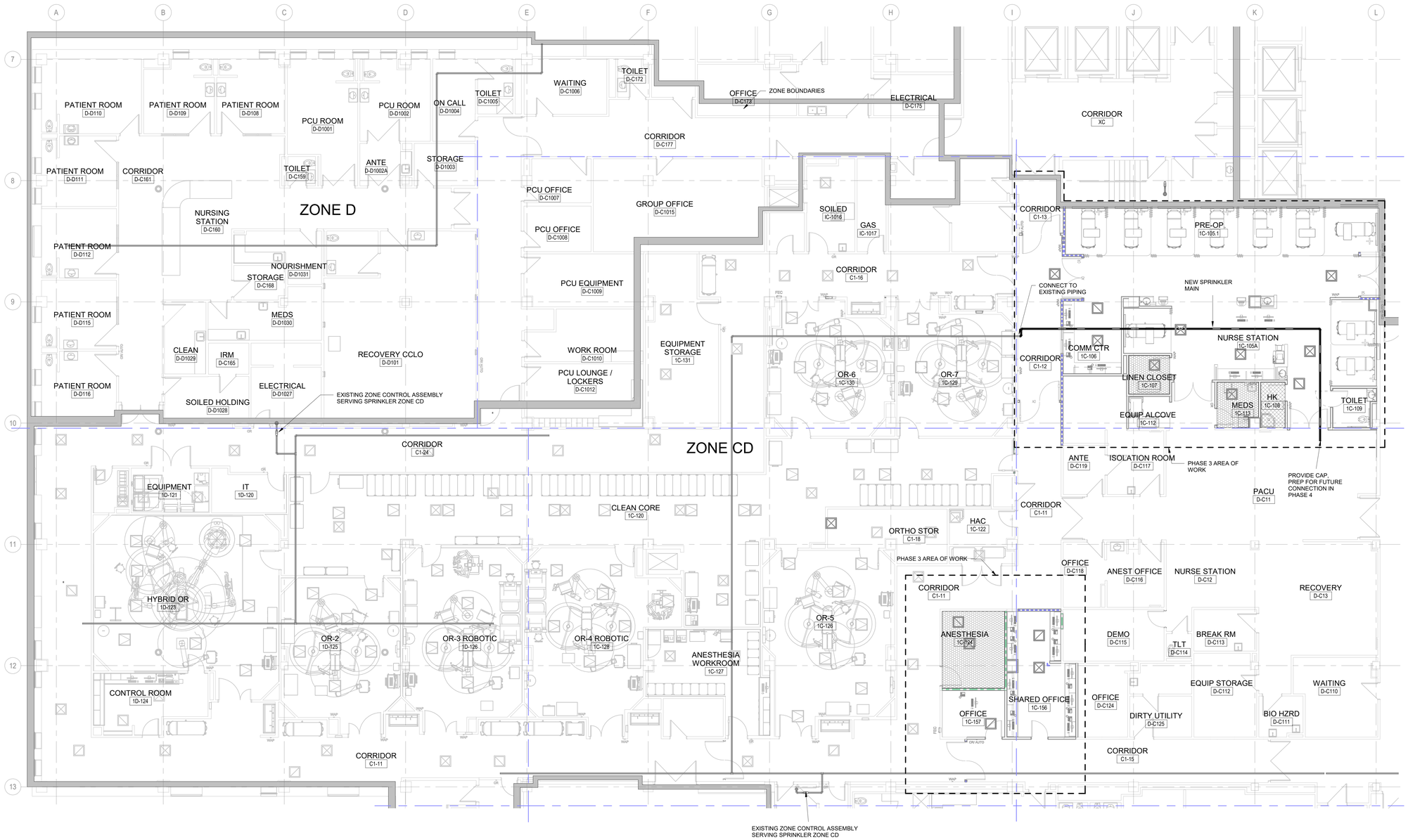
M-R PROJECT NO. 0499-0136

STANTON ENGINEERING SERVICES PROFESSIONAL ENGINEER
PATRICK KENNETH JOHNSON STATE OF WASHINGTON 20108200 REGISTERED PROFESSIONAL ENGINEER
12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	VA Drawing Number
FIRE SUPPRESSION DEMOLITION PLAN FIRST FLOOR PHASE 3	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II	2617
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Project Number 658-19-103	Building Number 143
		Location SALEM VA MEDICAL CENTER	Drawing Number P3-FK101
		Issue Date 2025-12-30 / Checked PJ / Drawn CA	



F1 FIRST FLOOR FIRE SUPPRESSION PLAN - PHASE 3 - PREP/RECOVERY

1/8" = 1'-0"

GENERAL NOTES

1. ALL AREAS ARE LIGHT HAZARD UNLESS OTHERWISE INDICATED BY HATCHING. REFER TO LEGEND BELOW FOR HAZARD CLASSIFICATION HATCHING.
2. FOR AREAS SUBJECT TO ELEVATED AMBIENT TEMPERATURES, SPRINKLER HEAD TEMPERATURE RATINGS SHALL BE IN ACCORDANCE WITH NFPA 13.
3. PROVIDE AUXILARY DRAINS AS NECESSARY IN ACCORDANCE WITH NFPA 13.
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6. EACH TRADE SHALL COORDINATE THE ROUTING AND INSTALLATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR. IN ANY INSTANCES OF CONFLICT, SYSTEMS REQUIRING "GRADE" OR "SLOPE" FOR DRAINAGE (SANITARY SEWER, SANITARY VENT, EQUIPMENT/CONDENSATE DRAINS, ETC.) SHALL HAVE PRIORITY.
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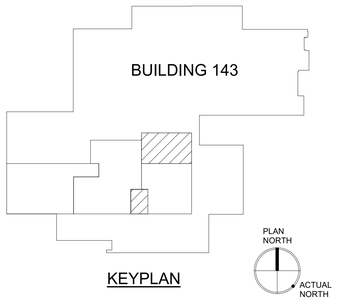
11. CONTRACTOR SHALL COORDINATE WITH THE COR AND VA PERSONNEL PRIOR TO ANY WORK ON THE EXISTING SPRINKLER SYSTEM.
12. THE NEW SPRINKLER ZONES BOUNDARIES SHOWN SHALL MATCH THE NEW SMOKE COMPARTMENTS SHOWN IN THE GENERAL INFORMATION DRAWINGS. IF EXISTING SPRINKLERS SERVING AREAS OUTSIDE THE SCOPE OF WORK ARE FOUND TO BE AFFECTED BY THE NEW ZONING, PROVISIONS SHALL BE MADE TO PROVIDE A CONNECTION TO ITS APPROPRIATE ZONE. ALL WORK SHALL BE COORDINATED WITH THE COR AND VA PERSONNEL.
13. REFER TO GENERAL INFORMATION DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.



KEYPLAN

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Revisions: Date:

CONSULTANT

Architecture:	Civil Engineering:	Fire & Life Safety:
PF&A DESIGN, P.C.	LABELLA ASSOCIATES	STANTON ENGINEERING SERVICES, LLC

ENGINEER OF RECORD

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M-R PROJECT NO. 0499-2136

STANTON ENGINEERING SERVICES PROFESSIONAL ENGINEER

PATRICK KENNETH JOHNSON
STATE OF WASHINGTON
20190304
REGISTERED PROFESSIONAL ENGINEER
12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION NEW WORK PLAN FIRST FLOOR PHASE 3

Approved by: Jon Manninen, COR

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATE SURGICAL SUITE PHASE II

Project Number: 658-19-103

Location: SALEM VA MEDICAL CENTER

Issue Date: 2025-12-30 | Checked: PJ | Drawn: CA

VA Drawing Number: 2617

Building Number: 143

Drawing Number: P3-FX101

VA FORM 08 - 6231

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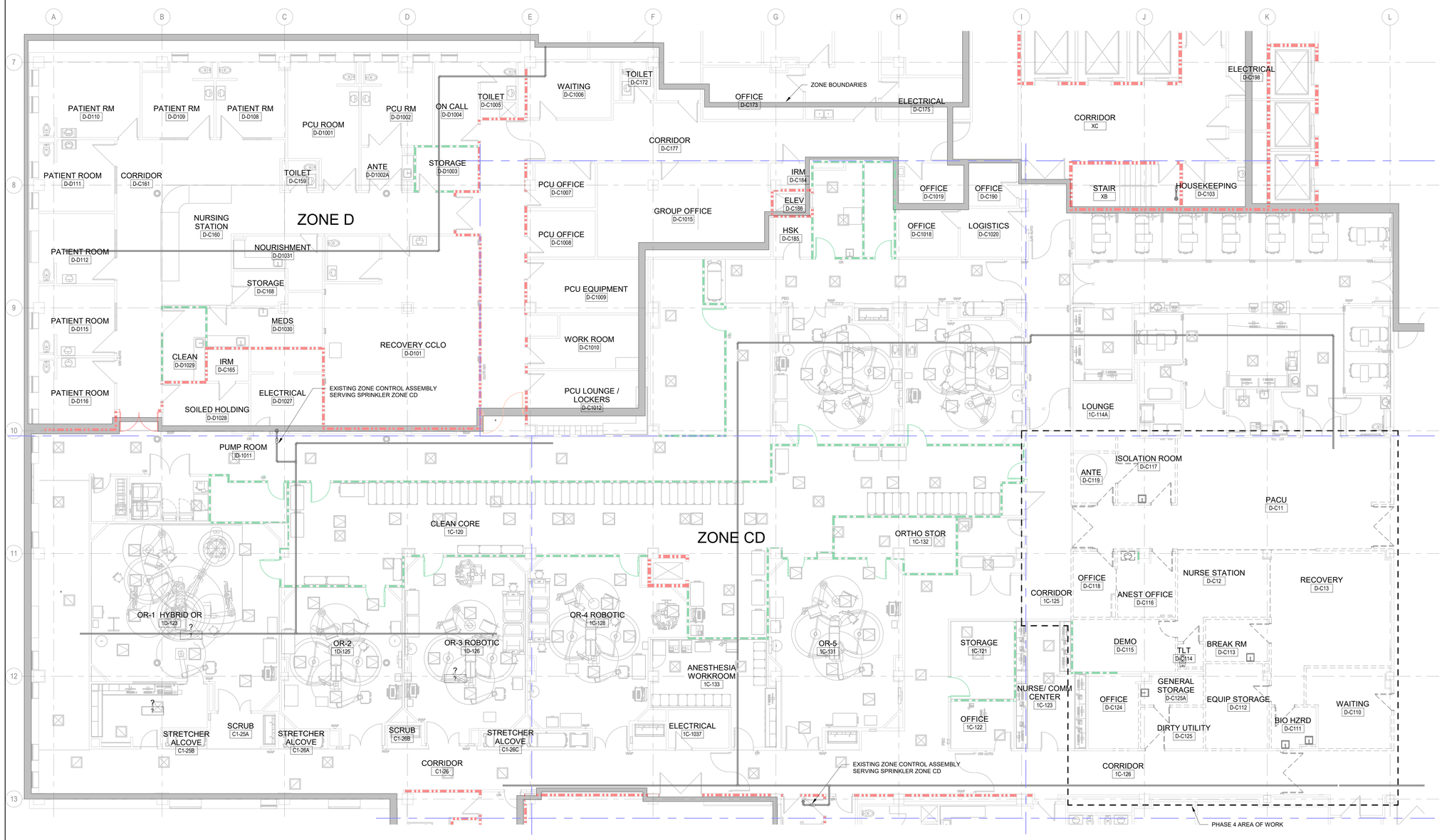

F1 FIRST FLOOR FIRE SUPPRESSION DEMOLITION PLAN - PHASE 4

1/8" = 1'-0"

GENERAL NOTES

1. DEMOLISH EXISTING SPRINKLERS AND PIPING TO ACCOMODATE NEW ARCHITECTURAL LAYOUT WITHIN THE AREA OF WORK UNLESS NOTED OTHERWISE. COORDINATE WITH VA OUTAGE REQUIREMENTS AND THE COR.
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6. SPRINKLER SYSTEM SHALL COMPLY WITH NFPA 13 AT THE COMPLETION OF EACH PHASE. IF NEW DEFICIENCIES IN SPRINKLER SYSTEM SPACING IN AREAS OUTSIDE OF THE CONSTRUCTION AREA ARE CREATED DUE TO DEMOLITION AND CONSTRUCTION ACTIVITIES (E.G. WHEN TEMPORARY BARRIERS ARE INSTALLED, WHEN EXISTING WALLS ARE DEMOLISHED, AND/OR WHEN NEW PERMANENT WALLS ARE INSTALLED), THE CONTRACTOR SHALL MODIFY THE EXISTING SPRINKLERS TO MAINTAIN NFPA 13 COMPLIANCE.
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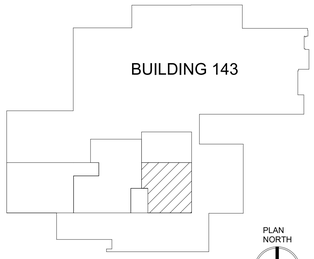
9. REFER TO GENERAL INFORMATION DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.



KEYPLAN

PLAN NORTH

ACTUAL NORTH

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER

Revisions: Date:

CONSULTANT

Architecture:	Civil Engineering:	Fire & Life Safety:
PF&A DESIGN, P.C.	LABELLA ASSOCIATES	STANTON ENGINEERING SERVICES, LLC

ENGINEER OF RECORD

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M-R PROJECT NO. 0499-0136

STANTON ENGINEERING SERVICES PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE SUPPRESSION DEMOLITION PLAN FIRST FLOOR PHASE 4	Phase: BID DOCUMENTS	Project Title: RENOVATE SURGICAL SUITE PHASE II	VA Drawing Number: 2617
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Project Number: 658-19-103	Building Number: 143
		Location: SALEM VA MEDICAL CENTER	Drawing Number: P4-FK101
		Issue Date: 2025-12-30 / Checked: PJ / Drawn: CA	

VA FORM 08 - 6231

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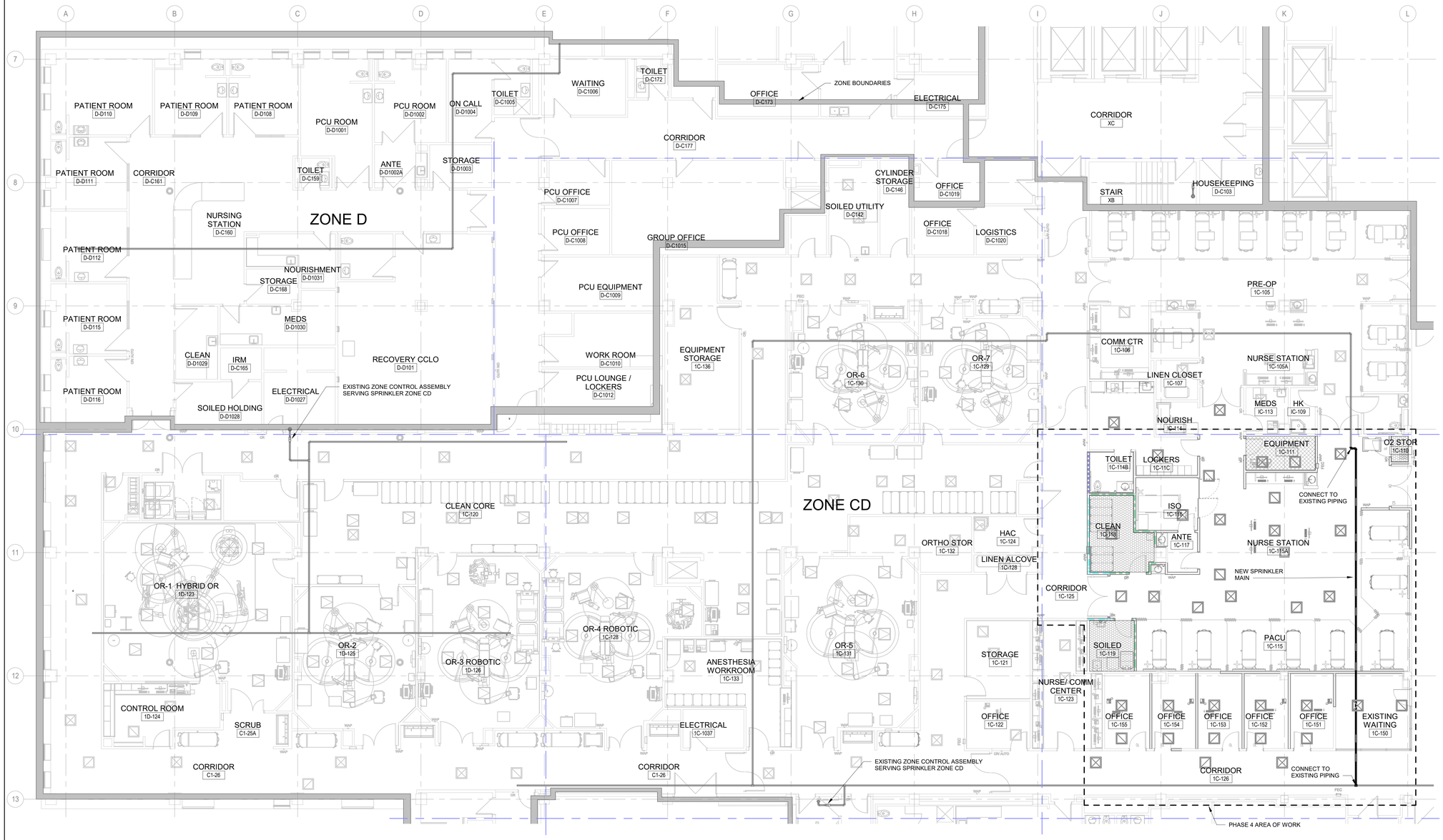
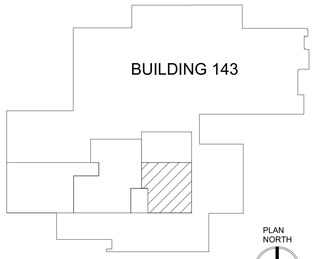


FIRST FLOOR FIRE SUPPRESSION PLAN - PHASE 4

F1 1/8" = 1'-0"

GENERAL NOTES

1. ALL AREAS ARE LIGHT HAZARD UNLESS OTHERWISE INDICATED BY HATCHING. REFER TO LEGEND BELOW FOR HAZARD CLASSIFICATION HATCHING.
2. FOR AREAS SUBJECT TO ELEVATED AMBIENT TEMPERATURES, SPRINKLER HEAD TEMPERATURE RATINGS SHALL BE IN ACCORDANCE WITH NFPA 13.
3. PROVIDE AUXILARY DRAINS AS NECESSARY IN ACCORDANCE WITH NFPA 13.
4. PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
5. PENETRATIONS OF WALLS OR FLOORS FOR SPRINKLER PIPING AND/OR EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATIONS. FIELD VERIFY EXISTING WALL PENETRATIONS AND SEAL AS REQUIRED TO MAINTAIN WALL OR FLOOR RATING.
6. EACH TRADE SHALL COORDINATE THE ROUTING AND INSTALLATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR. IN ANY INSTANCES OF CONFLICT, SYSTEMS REQUIRING "GRADE" OR "SLOPE" FOR DRAINAGE (SANITARY SEWER, SANITARY VENT, EQUIPMENT/CONDENSATE DRAINS, ETC.) SHALL HAVE PRIORITY.
7. CONTRACTOR TO COORDINATE ROUTING OF SPRINKLER PIPING WITH DUCTWORK, PIPING, AND STRUCTURE.
8. REFER TO MANUFACTURER'S LITERATURE AND INSTALLATION RECOMMENDATIONS/INSTRUCTIONS FOR EXACT SIZES AND LOCATIONS OF CONNECTIONS AND REQUIREMENTS OF OWNER FURNISHED EQUIPMENT.
9. DO NOT ROUTE SPRINKLER PIPING OVER OR THROUGH ELECTRICAL OR COMMUNICATION ROOMS UNLESS THE PIPING DIRECTLY SERVES EQUIPMENT IN THE ROOM.
10. DO NOT ROUTE PIPE ABOVE ELECTRICAL EQUIPMENT AS REQUIRED BY NFPA 13 AND NFPA 70. WHERE PIPING IS INSTALLED ABOVE THE DEDICATED ELECTRICAL SPACE, PROVIDE DRIP PANS BELOW AND ENSURE THERE ARE NO FITTINGS WITHIN THE DEDICATED ELECTRICAL SPACE.
11. CONTRACTOR SHALL COORDINATE WITH THE COR AND VA PERSONNEL PRIOR TO ANY WORK ON THE EXISTING SPRINKLER SYSTEM.
12. THE NEW SPRINKLER ZONES BOUNDARIES SHOWN SHALL MATCH THE NEW SMOKE COMPARTMENTS SHOWN IN THE GENERAL INFORMATION DRAWINGS. IF EXISTING SPRINKLERS SERVING AREAS OUTSIDE THE SCOPE OF WORK ARE FOUND TO BE AFFECTED BY THE NEW ZONING, PROVISIONS SHALL BE MADE TO PROVIDE A CONNECTION TO ITS APPROPRIATE ZONE. ALL WORK SHALL BE COORDINATED WITH THE COR AND VA PERSONNEL.
13. REFER TO GENERAL INFORMATION DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.



KEYPLAN

PLAN NORTH
ACTUAL NORTH

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CONSULTANT

Architecture:	Civil Engineering:	Fire & Life Safety:
PF&A DESIGN, P.C.	LABELLA ASSOCIATES	STANTON ENGINEERING SERVICES, LLC

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STANTON ENGINEERING SERVICES PROFESSIONAL ENGINEER

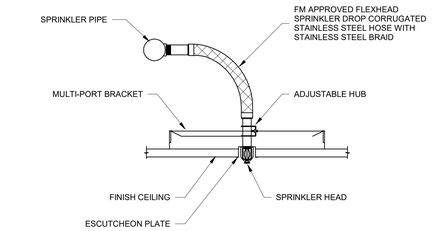
PATRICK KENNETH STANTON STATE OF WASHINGTON 20100259 REGISTERED PROFESSIONAL ENGINEER
12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

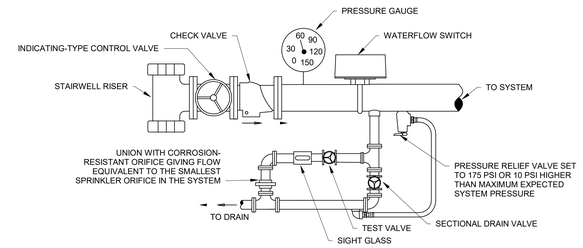
Drawing Title	Phase	Project Title	VA Drawing Number
FIRE SUPPRESSION NEW WORK PLAN FIRST FLOOR PHASE 4	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II	2617
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Project Number 658-19-103	Building Number 143
		Location SALEM VA MEDICAL CENTER	Drawing Number P4-FX101
		Issue Date 2025-12-30 / Checked PJ / Drawn CA	

VA FORM 08 - 6231

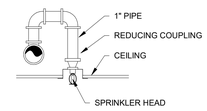


NOTE:
1. MAKE ALL CONNECTIONS AND BEND RADIUS IN ACCORDANCE WITH MANUFACTURES REQUIREMENTS.
2. FLEXIBLE SPRINKLER HOSE NOT TO BE INSTALLED ABOVE HARD CEILINGS.
3. FLEXIBLE SPRINKLER HOSE MUST BE FM APPROVED.

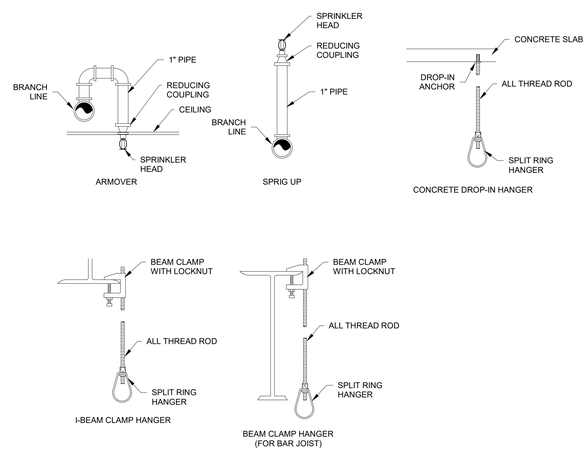
B6 TYPICAL FLEXIBLE SPRINKLER HOSE DETAIL
NTS



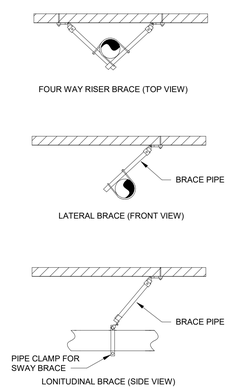
D6 TYPICAL ZONE CONTROL ASSEMBLY (PRESSURE GAUGE)
NTS



D8 SEMI-RECESSED SPRINKLER HEAD DETAIL
NTS



F6 SPRINKLER ARMOVER, SPRIG, AND HANGER DETAILS
NTS



F8 SEISMIC/EARTHQUAKE
NTS

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STANTON ENGINEERING SERVICES
PROFESSIONAL ENGINEER
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STATE OF WASHINGTON
20108206
REGISTERED PROFESSIONAL ENGINEER
12-30-2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	VA Drawing Number
FIRE SUPPRESSION DETAILS	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II Project Number 658-19-103	2617
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Location: SALEM VA MEDICAL CENTER	Building Number 143
		Issue Date 2025-12-30 / Checked PJ / Drawn CA	Drawing Number FX501

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GENERAL NOTES AND CONDITIONS

1. PRIOR TO ANY WORK COMMENCING IN AN AREA, THE CONTRACTOR SHALL NOTIFY THE COR OF HIS INTENTION TO WORK IN THE AREA AND SHALL SCHEDULE A WALKTHROUGH WITH THE COR TO DETERMINE EXISTING CONDITIONS. AFTER THE WORK, THE EXISTING WORK AREAS SHALL BE RETURNED TO THEIR ORIGINAL STATE BEFORE FINAL APPROVAL SHALL BE GIVEN.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS, PIPE SIZES AND MATERIALS, FLUID FLOW DIRECTION(S) AND CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING INSTALLATION OR FABRICATION WORK. (DO NOT SCALE DRAWINGS).

3. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES EVEN IF THE UTILITIES ARE NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL REPAIR ALL DAMAGES AT THEIR OWN EXPENSE AND WILL BE RESPONSIBLE FOR ANY ADDITIONAL DAMAGES CAUSED BY A SYSTEM BEING DOWN.

4. DAMAGE TO EXISTING WALLS, CEILINGS AND FLOORS DUE TO THE WORK OF THIS CONTRACTOR, INCLUDING REMOVAL OF FLOOR DRAIN AND PIPE PENETRATIONS, SHALL BE RESTORED TO ORIGINAL CONDITION. REFER TO ARCHITECTURAL DOCUMENTS FOR FINISHES.

5. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS, INCLUDING THOSE WHICH MAY BE ISSUED BY THE OWNER, ARE BEING OBSERVED, PARTICULARLY WORKPLACE SAFETY AND THE CONDUCT OF ALL THOSE EMPLOYED DIRECTLY AND INDIRECTLY BY HIM ON THE PREMISES, AND THE OWNER'S EMPLOYEES WHO MAY BE IMPACTED OR AFFECTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL INSTALL SIGNAGE, TEMPORARY FENCES, BARRIERS, AND OTHER MEANS TO PROVIDE WARNING AND PERSONNEL SAFETY. PLACEMENT OF THESE ITEMS WILL BE COORDINATED WITH THE OWNER AND HIS ONGOING OPERATIONS AND WILL PROMPTLY BE RESTORED WHEN WORK IN A PARTICULAR AREA HAS BEEN COMPLETED.

6. ALL WORK WILL BE LAWFULLY EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND WILL BE DONE IN ACCORDANCE WITH THE GOVERNING CODES, INDUSTRY STANDARDS AND IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS.

7. WORK UNDER THIS CONTRACT SHALL CONSIST OF THE CONTRACTOR PROVIDING ALL LABOR, MATERIALS, AND SERVICES, INCLUDING WORK NOT SPECIFICALLY SHOWN BUT REASONABLY IMPLIED.

8. WORK ALL DRAWINGS WITH THE PROJECT SPECIFICATIONS.

9. PIPING SHOWN ON RESPECTIVE PLANS OCCURS ABOVE THAT FLOOR OR AT THE CEILING OF THAT FLOOR SERVING THE FLOOR ABOVE UNLESS OTHERWISE NOTED.

10. PIPING RISING WITHIN A STORY IS DESIGNATED AS "RISE". PIPING RISING TO ANOTHER STORY IS NOTED AS "UP". PIPING DROPPING WITHIN A STORY IS NOTED AS "DROP". PIPING DROPPING TO ANOTHER STORY IS NOTED AS "DN".

11. AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLETELY CLEAN ALL SURFACES OF CONSTRUCTION DEBRIS. SURFACES SHALL BE WIPED CLEAN OF DUST, INCLUDING FIXTURES, NEXT TO FIXTURES AND CLOSE TO MAIN, WINDOW SILLS, DOOR FRAMES, ETC. ANY TOILETS OR SINKS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY CLEANED AFTER THE CONSTRUCTION HAS BEEN COMPLETED USING NATURAL CLEANSER.

12. THE CONTRACTOR SHALL RECEIVE ALL DELIVERIES OF MATERIALS, EQUIPMENT, TOOLS, OR OTHER GOODS OFF OF STATION, AND BRING THEM TO THE JOB SITE. THE VA MEDICAL CENTER SHALL NOT ACCEPT DELIVERIES FOR PROJECT PURPOSES.

13. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY PARAGRAPH, SUBMITTALS. CONSTRUCTION WORK SHALL NOT START ON ANY SYSTEM UNTIL THE LAYOUT DRAWINGS HAVE BEEN APPROVED BY VA.

PLUMBING NOTES

1. ALL PIPING MATERIALS AND COMPONENTS INCLUDING FITTINGS, PIPE, FLANGES, VALVES, ETC. SHALL BE DESIGNATED, FABRICATED AND INSTALLED PER THE APPROPRIATE SECTIONS OF THE LATEST CODES, VETERAN'S AFFAIRS PLUMBING STANDARDS AND PROJECT CONTRACT DOCUMENTS.

2. ALL SANITARY SEWERS 2" AND SMALLER SHALL SLOPE 1/4" PER FOOT (MIN), ALL SANITARY SEWERS 3" AND LARGER SHALL SLOPE 1/8" PER FOOT (MIN.) IN THE DIRECTION OF FLOW.

3. ALL HORIZONTALLY ROUTED WASTE VENTS SHALL BE INSTALLED WITH A SLOPE TO FACILITATE GRAVITY DRAINAGE TO THE WASTE SYSTEM.

4. ALL CLEANOUTS INSTALLED IN THE SEWER SYSTEM SHALL BE SIZED AS FOLLOWS:

PIPE SIZE	SIZE OF CLEANOUT
2"	2"
2-1/2"	2-1/2"
3"	3"
4" TO 6"	4"

5. CLEANOUTS INSTALLED IN HORIZONTAL DRAINAGE PIPING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 100'.

6. THE MAXIMUM VERTICAL DISTANCE FROM THE FIXTURE OUTLET (LAVATORY, FLOOR DRAIN ETC.) TO THE TRAP WEIR SHALL BE 24".

7. SURFACES TO BE SOLDERED SHALL BE CLEANED BRIGHT. THE JOINTS SHALL BE PROPERLY FLUXED AND MADE WITH APPROVED SOLDER. SOLDER JOINTS FOR POTABLE WATER SHALL BE MADE WITH A SOLDER CONTAINING NOT MORE THAN 0.2 PERCENT LEAD.

8. UNIONS SHALL BE INSTALLED AT ALL EQUIPMENT. THE USE OF DIELECTRIC UNIONS AND FLANGES MUST BE INSTALLED IN AREAS WHERE JOINING OF DISSIMILAR METALS (ie CARBON STEEL TO COPPER OR BRONZE, ETC.) THIS IS TO FACILITATE PIPING REMOVAL AND REASSEMBLY FOR FUTURE MAINTENANCE WORK AND/OR PREVENT GALVANIC CORROSION.

9. CONTRACTOR SHALL PROPERLY BRACE, ANCHOR, AND SUPPORT ALL PIPING, VALVES ETC. IN ACCORDANCE WITH MSS SP-58 AND SPECIFICATION 13 05 41.

10. PIPE SUPPORT SPACING SHALL BE IN ACCORDANCE WITH MSS-58.

11. ALL POTABLE WATER BRANCHES SHALL BE INSTALLED WITH ISOLATION VALVES CLOSE TO MAIN.

12. ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH WATER ISOLATION VALVES.

13. CONTRACTOR SHALL PROVIDE WALL ACCESS COVERS TO ALL CLEANOUTS AND VALVES LOCATED WITHIN WALLS AND CEILINGS.

14. ALL WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES SHALL BE PROTECTED IN ACCORDANCE WITH SPECIFICATIONS.

15. ALL PIPES OR TUBING WHICH PASS THROUGH RATED AND NON-RATED WALLS, FLOORS AND FOUNDATION WALLS, SHALL PASS THROUGH A SCHEDULE 40 CARBON STEEL PIPE SLEEVE. SLEEVES WHICH PASS THROUGH MASONRY SHALL BE GALVANIZED COATED. ALL SLEEVES SHALL BE INSTALLED FLUSH ON BOTH SIDES OF WALL PENETRATION.
   NON-RATED WALLS: THE SLEEVE SHALL BE SIZED TO ALLOW FREE PASSAGE OF INSULATED AND NON-INSULATED PIPES AND TUBING.
   RATED WALLS: PIPES WHICH PASS THROUGH FIRE-RATED WALLS & FLOOR SHALL USE THE APPROPRIATE DETAILED INSTALLATION METHOD OF SEALING WHILE MAINTAINING THE INTEGRITY OF THE WALL'S FIRE RATING(S).
   EXTENSION WALLS & FOUNDATION: PIPES WHICH PASS THROUGH EXTENSION WALLS OR FOUNDATION WALLS SHALL BE SEALED AND MADE WEATHER-TIGHT.

16. INSULATE COLD AND HOT WATER PIPING PER THE PROJECT DOCUMENTS WITH FIRE RETARDANT VAPOR BARRIER JACKET. PIPE INSULATION SHALL BE SEALED WITH A FIRE RESISTIVE ADHESIVE.

17. CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND COORDINATION OF INSPECTIONS OF THE ENTIRE POTABLE WATER, SANITARY SEWER AND VENT SYSTEMS. TESTING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE INTERNATIONAL PLUMBING CODE.

18. ALL PIPING AND VALVES SHALL BE PROPERLY IDENTIFIED, LABELED AND TAGGED. CONTRACTOR SHALL SUBMIT VALVE TAG LIST PER SPECIFICATIONS.

19. CONTRACTOR SHALL FLUSH AND DISINFECT THE ENTIRE POTABLE WATER SYSTEM. FLUSHING AND DISINFECTION OF THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE INTERNATIONAL PLUMBING CODE. SUBMIT WITNESSED REPORT OF SYSTEM DISINFECTION IN ACCORDANCE WITH VA DIRECTIVE 1061 FOR FLUSHING AND INSTALLATION.

20. PROVIDE THREE (3) ELBOW SWING JOINTS FOR ALL DOMESTIC HOT WATER CONNECTIONS TO THE MAIN.

21. CONTRACTOR SHALL PROVIDE AND INSTALL THERMAL EXPANSION/CONTRACTION COMPENSATION IN THE DOMESTIC HOT WATER AND RECIRCULATION SYSTEMS, LIMITING THE MAXIMUM MOVEMENT TO 1-1/2" OR LESS. ANCHORS & RESTRAINTS SHALL BE INSTALLED WHERE NECESSARY. ALL PIPES SHALL BE PROPERLY GUIDED INTO THE THERMAL EXPANSION LOOPS OR COMPENSATORS.

22. NO PRESSURIZED PIPING SHALL BE TERMINATED AND ABANDONED IN A WALL OR OTHER INACCESSIBLE AREA. ALL TERMINATIONS SHALL INCLUDE REMOVAL OF PIPING BACK TO AN EASILY ACCESSIBLE AREA WHERE THE TERMINATION SHALL BE MADE WITHIN 2 PIPE DIAMETERS OF ORIGINATING PIPE BRANCH TEE.

23. ALL FIXTURES SUPPLIED WITH DOMESTIC USE HOT WATER SHALL BE PROVIDED WITH A MIXING VALVE AND ANTI-SCALD DEVICE TO LIMIT OUTLET WATER TEMPERATURE TO 110 DEG. F. IN ACCORDANCE WITH VA DIRECTIVE 1061.

24. POSITIVE SHUT-OFF OF EXISTING VALVES CAN NOT BE GUARANTEED, VA WILL PROVIDE REASONABLE EFFORT TO CLOSE OFF PIPING WITH EXITING VALVES. IF EXISTING VALVES FAIL TO HOLD, CONTRACTOR IS RESPONSIBLE FOR COST AND EFFORT REQUIRED TO FREEZE PIPE AS NEEDED.

PLUMBING ABBREVIATIONS

(NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS MAY APPEAR ON DRAWINGS)

AAP	AREA ALARM PANEL
AB	ANESTHESIA BOOM
ACR	AIR CONDITIONING AND REFRIGERATION
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AG	AIR GAP
AI	ANALOG INPUT
AISI	AMERICAN IRON AND STEEL INSTITUTE
AO	ANALOG OUTPUT
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION, AIR CONDITIONING ENGINEERS
ASJ	ALL SERVICE JACKET
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASR	AUTOMATIC SPRINKLER RISER
AWG	AMERICAN WIRE GAUGE
BACNET	BUILDING AUTOMATION AND CONTROL NETWORK
BAG	SILVER-COPPER-ZINC BRAZING ALLOY
BAS	BUILDING AUTOMATION SYSTEM
BCUP	SILVER-COPPER-PHOSPHORUS BRAZING ALLOY
BFP	REDUCED PRESSURE BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTU/H	BRITISH THERMAL UNIT PER HOUR
BSG	BOROSILICATE GLASS PIPE
C	CELSIUS
CD	COMPACT DISK
CDA	COPPER DEVELOPMENT ASSOCIATION
CGA	COMPRESSED GAS ASSOCIATION
CFM	CUBIC FEET PER MINUTE
CO	CLEANOUT
CO2	CARBON DIOXIDE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CHLOROPRENE
CRP	CORROSION RESISTANT PIPE
CV	CONTROL VALVE
CXA	COMMISSIONING AGENT
DB	DECIBELS
DB(A)	DECIBELS (A WEIGHTED)
DDC	DIRECT DIGITAL CONTROL
DFU	DRAINAGE FIXTURE UNITS
DI	DIGITAL INPUT
DI	DEIONIZED WATER
DISS	DIAMETER INDEX SAFETY SYSTEM
DN	DIAMETER NOMINAL
DO	DIGITAL OUTPUT
DOE	DEPARTMENT OF ENERGY
DVD	DIGITAL VIDEO DISC
DW	DISHWASHER
DWG	DRAWING
DWV	DRAINAGE, WASTE AND VENT
EB	EQUIPMENT BOOM
EL	ELEVATION
EPA	ENVIRONMENTAL PROTECTION AGENCY
EPACT	ENERGY POLICY ACT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPT	ETHYLENE PROPYLENE TERPOLYMER
ETO	ETHYLENE OXIDE
EX	EXISTING
F	FAHRENHEIT
FAR	FEDERAL ACQUISITION REGULATIONS
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT (HOSE) CONNECTION
FNTP	FEMALE NATIONAL PIPE THREAD
FOP	FUEL OIL PUMP
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FPM	FLUOROELASTOMER POLYMER
FS	FLOW SWITCH
FSK	FOIL-SCRIM-KRAFT FACING
FSS	VA CONSTRUCTION & FACILITIES MANAGEMENT, FACILITY STANDARDS SERVICE
FU	FIXTURE UNITS
GAL	GALLON
GCO	GRADE CLEANOUTS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GRS	GAS REGULATOR STATION
GT	GREASE TRAP
GVTR	GAS VENT THROUGH ROOF
H&CW	HOT AND COLD WATER
HB	HOSE BIBB
HD	HUB DRAIN
HDPE	HIGH DENSITY POLYETHYLENE
HEFP	HEALTHCARE ENVIRONMENT AND FACILITIES PROGRAM (REPLACEMENT FOR OCAMES)
HEX	HEAT EXCHANGER
HG	MERCURY
HOA	HANDS-OFF-AUTOMATIC
HP	HORSEPOWER
HVE	HIGH VOLUME EVACUATION
HWCP	HOT WATER CIRCULATING PUMP
HYD	HYDRANT
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
IPC	INTERNATIONAL PLUMBING CODE
IPS	IRON PIPE SIZE
KG	KILOGRAM
KPA	KILOPASCAL
KW	KILOWATT
KWH	KILOWATT HOUR
LAV	LAVATORY
LB	POUND
LBS/HR	POUNDS PER HOUR
LNG	LIQUID NATURAL GAS
L/MIN	LITERS PER MINUTE
L/S	LITERS PER SECOND
M	METER
MA	MEDICAL AIR
MAV	MEDICAL AIR VENT
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MER	MECHANICAL EQUIPMENT ROOM
MFG	MANUFACTURER
MG	MILLIGRAM / MEDICAL GAS
MGH	MEDICAL GAS HEADWALL
MGB	MEDICAL GAS BOOM
MM	MILLIMETER
MIN	MINIMUM
MV	MEDICAL VACUUM
N2	NITROGEN
N20	NITROGEN OXIDE
NC	NORMALLY CLOSED
NCP	NITROGEN CONTROL PANEL
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPTF	NATIONAL PIPE THREAD FEMALE
NPS	NOMINAL PIPE SIZE
NPT	NOMINAL PIPE THREAD
NTS	NOT TO SCALE
O2	OXYGEN
OC	ON CENTER
OCAMES	REPLACED BY HEFP
OD	OUTSIDE DIAMETER
OR	OPERATING ROOM
OSD	OPEN SIGHT DRAIN
OS&Y	OUTSIDE STEM AND YOKE
OXY	OXYGEN
PA	PASCAL
PBPU	PREFABRICATED BEDSIDE PATIENT UNITS
PD	PRESSURE DROP OR DIFFERENCE
PDI	PLUMBING AND DRAINAGE INSTITUTE
PG	PRESSURE GAUGE
PH	POWER OF HYDROGEN
PID	PROPORTIONAL-INTEGRAL- DIFFERENTIAL
PLC	PROGRAMMABLE LOGIC CONTROLLERS
PP	POLYPROPYLENE
PPB	PARTS PER BILLION
PPM	PARTS PER MILLION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
PSIG	POUNDS PER SQUARE INCH GAUGE
PTFE	POLYTETRAFLUOROETHYLENE
PVC	POLYVINYL CHLORIDE
PVDF	POLYVINYLIDENE FLUORIDE
PW	POTABLE WATER
RAD	RADIANS
RD	ROOF DRAIN
RO	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
RTD	RESISTANCE TEMPERATURE DETECTORS
RTRP	REINFORCED THERMOSETTING RESIN PIPE
SAN	SANITARY SEWER
SCFM	STANDARD CUBIC FEET PER MINUTE
SDI	SILT DENSITY INDEX
SDMH	STORM DRAIN MANHOLE
SF	SQUARE FEET
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SPEC	SPECIFICATION
SPS	STERILE PROCESSING SERVICES
SQFT	SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
SUS	SAYBOLT UNIVERSAL SECOND
SWC	SURGERY WASTE CART
SWP	STEAM WORKING PRESSURE
TCV	TEMPERATURE CONTROL VALVE
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TEFC	TOTALLY ENCLOSED FAN-COOLED
TEMP	TEMPERATURE
TFE	TETRAFLUOROETHYLENE
THERM	100,000 BTU
THHN	THERMOPLASTIC HIGH-HEAT RESISTANT NYLON COATED WIRE
THWN	THERMOPLASTIC HEAT & WATER RESISTANT NYLON COATED WIRE
TMV	THERMOSTATIC MIXING VALVE
T/P	TEMPERATURE AND PRESSURE
TP	TRAP PRIMER
TSTAT	THERMOSTAT
TYP	TYPICAL
USDA	U.S. DEPARTMENT OF AGRICULTURE
V	VENT / VOLT
VA	VETERANS ADMINISTRATION
VA CFM	VA CONSTRUCTION & FACILITIES MANAGEMENT
VA CFM CSS	VA CFM CONSULTING SUPPORT SERVICE
VAC	VACUUM
VAC	VOLTAGE IN ALTERNATING CURRENT
VAMC	VETERANS ADMINISTRATION MEDICAL CENTER
VA TIL	WWW.CFM.VA.GOV/TIL/INDEX.ASP
VHA	VETERANS HEALTH ADMINISTRATION
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WASTE
WAGD	WASTE ANESTHESIA GAS DISPOSAL
WC	WATER CLOSET
WCO	WALL CLEANOUT
WG	WATER GAUGE
WH	WALL HYDRANT
WOG	WATER, OIL, GAS
WPD	WATER PRESSURE DROP
WS	WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNITS
YCO	YARD CLEANOUT
YH	YARD HYDRANT
ZVB	ZONE VALVE BOX

GENERAL PLUMBING SYMBOLS

- NEW PIPE
- EXISTING PIPE TO REMAIN
- EXISTING PIPE TO BE DEMOLISHED
- DIRECTION OF PIPE PITCH (DOWN)
- DIRECTION OF FLOW
- ANCHOR
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- TOP CONNECTION, 45° OR 90°
- BOTTOM CONNECTION, 45° OR 90°
- SIDE CONNECTION
- CAPPED OUTLET
- RISE OR DROP IN PIPE
- UNION
- PIPE UP OR RISE
- PIPE DOWN OR DROP
- QUICK-COUPLE HOSE CONNECTOR
- INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
- FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
- STRAINER
- THERMOMETER
- PRESSURE GAGE
- FE — FLOW ELEMENT
- CO — CLEAN OUT
- HOSE BIBB

GENERAL DRAWING SYMBOLS

- POINT OF CONNECTION BETWEEN NEW AND EXISTING
- POINT OF DISCONNECT BETWEEN EXISTING TO REMAIN AND EXISTING TO BE REMOVED
- 2 / H4 — DETAIL NUMBER / DRAWING NUMBER WHERE SHOWN
- A / H7 — SECTION LETTER / DRAWING NUMBER WHERE SHOWN
- 26-SF-3 — BLDG. NUMBER WHERE EQUIPMENT IS LOCATED; EQUIPMENT ABBREVIATION; ITEM NUMBER; TYPICAL UNIT NUMBER (EX: SUPPLY FAN No. 3 IN BLDG 26)
- SAN / 1 — RISER SYSTEM / RISER NUMBER

PLUMBING VALVE SYMBOLS

- GATE VALVE
- GLOBE VALVE
- GATE VALVE WITH 3/4" HOSE ADAPTER
- CHECK VALVE
- ANGLE GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- BALANCING VALVE
- MODULATING CONTROL VALVE
- TWO POSITION CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- THREE-WAY TWO POSITION CONTROL VALVE
- PRESSURE REGULATING VALVE
- AUTOMATIC FLOW CONTROL VALVE
- PRESSURE RELIEF VALVE
- MANUAL AIR VENT
- AV — AUTOMATIC AIR VENT
- TEST PLUG (PRESSURE/TEMPERATURE)

PLUMBING PIPING SYMBOLS

—DCW—	DOMESTIC COLD WATER, COLD WATER
--DCWR--	DOMESTIC COLD WATER RETURN
—DHW—	DOMESTIC HOT WATER, HOT WATER
--DHWR--	DOMESTIC HOT WATER RETURN
—MA—	MEDICAL AIR
—MV—	MEDICAL VACUUM
---LA---	LABORATORY AIR
—LV—	LABORATORY VACUUM
—OA—	ORAL EVACUATION
---IA---	INDUSTRIAL AIR
— D —	DRAIN
— V —	VENT (SANITARY)
—SS—	SOIL, WASTE, OR SANITARY SEWER
--SAN---	SANITARY SEWER, BELOW GRADE
—SD—	STORM WATER
---SD---	STORM WATER, BELOW GRADE
—SCW—	SOFTEN COLD WATER
—FCW—	FILTERED COLD WATER
—DWS—	DRINKING WATER SUPPLY
--DWR---	DRINKING WATER RETURN
—TWS—	TEMPERED WATER SUPPLY
--TWR---	TEMPERED WATER RETURN
—N2O—	NITROUS OXIDE
—O2—	OXYGEN
— N2 —	NITROGEN
— CO2 —	CARBON DIOXIDE
—NG—	NATURAL GAS
---NG---	NATURAL GAS, BELOW GRADE
—FOD—	FUEL OIL DISCHARGE
—FOS—	FUEL OIL SUPPLY
—FOV—	FUEL OIL VENT
--FOR---	FUEL OIL RETURN

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NO.	DESCRIPTION	DATE

CONSULTANTS

Architecture:	Civil Engineering:	Fire & Life Safety:
PF&A DESIGN, P.C.	LABELLA ASSOCIATES	STANTON ENGINEERING SERVICES, LLC

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M-R PROJECT NO. 0499-0136

MILLER-REMICK LLC
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA
ANTHONY DANIEL PACARO JR.
Lic. No. 0402055079
PROFESSIONAL ENGINEER
12-30-2025

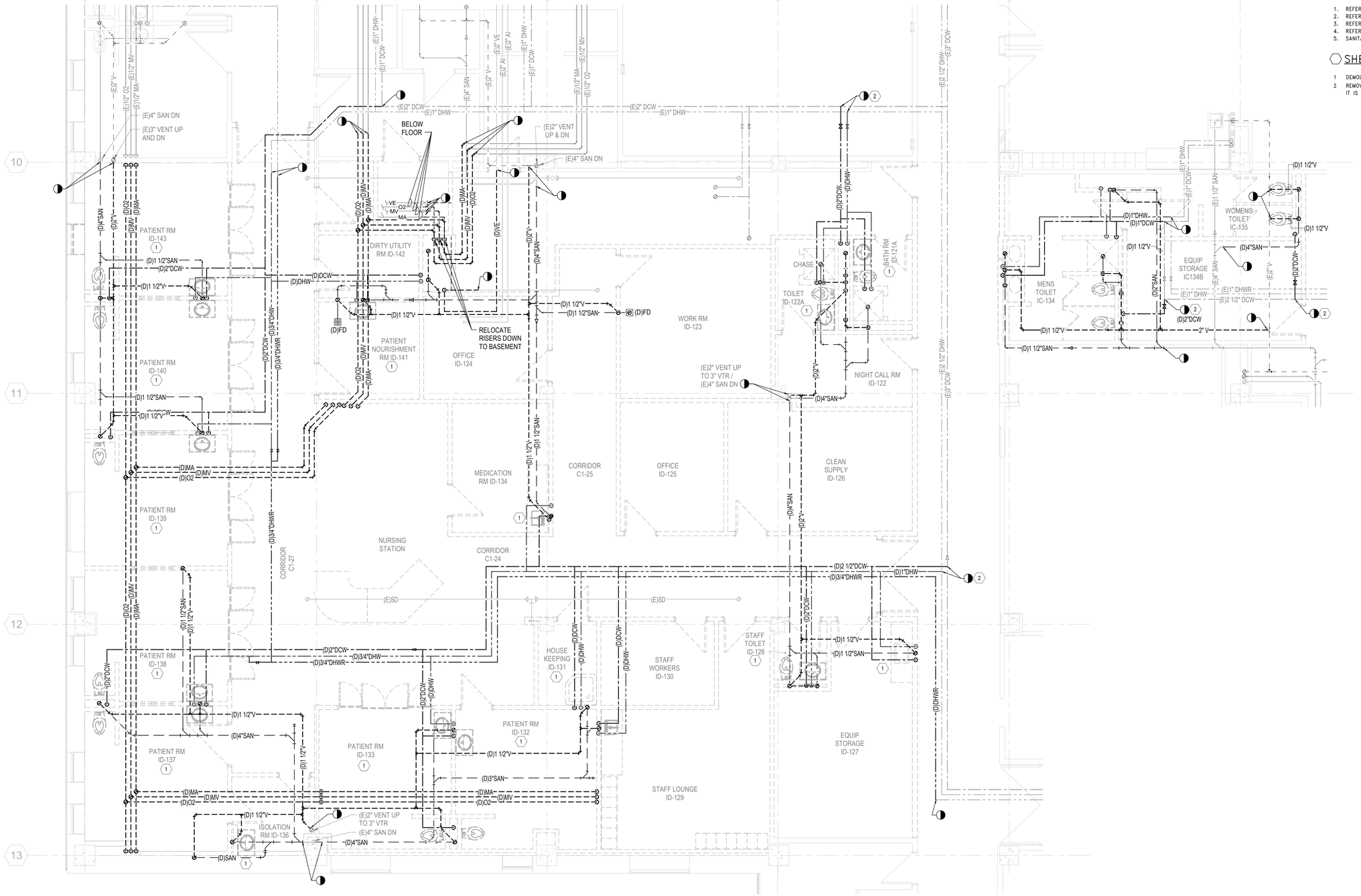
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING ABBREVIATIONS, NOTES & SYMBOLS	Phase: BID DOCUMENTS	Project Title: RENOVATE SURGICAL SUITE PHASE II	VA Drawing Number: 2617
		Project Number: 658-19-103	Building Number: 143
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Location: SALEM VA MEDICAL CENTER	Drawing Number: P-001
		Issue Date: 2025-12-30 / Checked: DC / Drawn: SP	

VA FORM 08-6231

P:\0499_DVA\0499-0136 Salem Renovate Surgical Suite\4_Drawings\1_Cad\1_Current Submittal Phase\5_Plumbing\P-001.dwg 12-29-25 10:25:36 AM sparte



1 PLUMBING DEMOLITION PLAN - 1ST FLOOR, PHASE 1

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

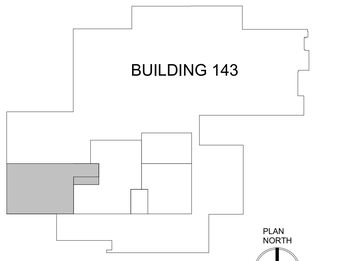
GENERAL SHEET NOTES:

1. REFER TO DRAWING P-001 FOR PLUMBING ABBREVIATIONS, GENERAL NOTES & SYMBOLS.
2. REFER TO DRAWING SERIES P-500 FOR PLUMBING DETAILS
3. REFER TO DRAWING SERIES P-600 FOR PLUMBING RISER DIAGRAMS
4. REFER TO DRAWING P-701 FOR PLUMBING SCHEDULES
5. SANITARY PIPING SHOWN ON THIS PLAN IS BELOW FLOOR.

SHEET KEYNOTES:

1 DEMOLISH EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING.

2 REMOVE DEAD LEGS FROM HOT AND COLD WATER PIPES AND INSTALL SPOOL PIECE. WHERE IT IS NOT POSSIBLE, LIMIT DEAD LEG TO 1.5 x PIPE DIAMETER.



KEYPLAN

PLAN NORTH

ACTUAL NORTH

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M-R PROJECT NO. 0499-036

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ANTHONY DANIEL PACARO JR.
Lic. No. 402055075
PROFESSIONAL ENGINEER

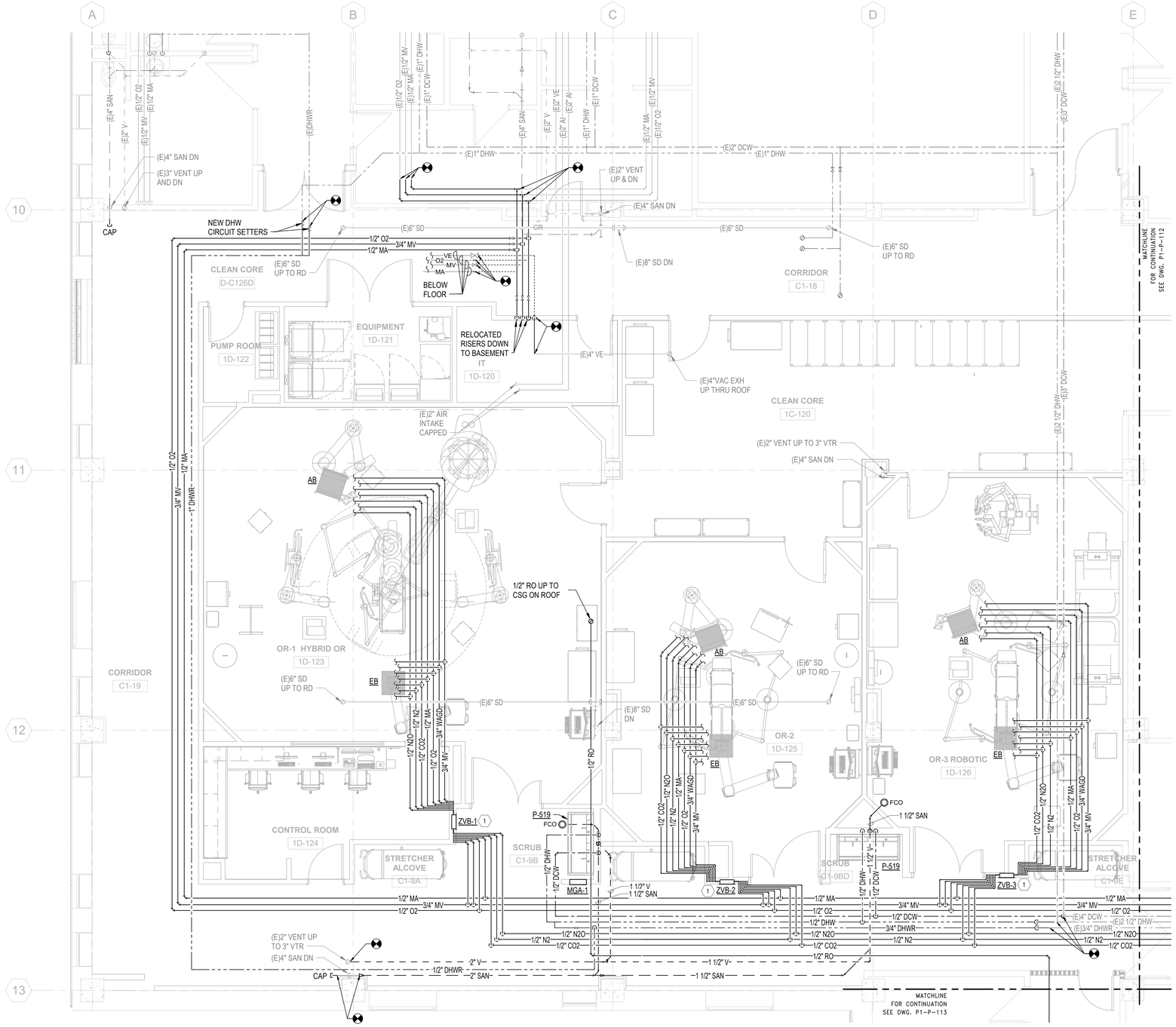
12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	VA Drawing Number
PLUMBING DEMOLITION PLAN 1ST FLOOR, PHASE 1	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II	2617
		Project Number 658-19-103	Building Number 143
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Location SALEM VA MEDICAL CENTER	Drawing Number
		Issue Date 2025-12-30 / Checked GM / Drawn SP	P1-PD111

VA FORM 08 - 6231



1 PLUMBING PLAN - 1ST FLOOR, PHASE 1

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

GENERAL SHEET NOTES:

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5. SANITARY PIPING SHOWN ON THIS PLAN IS BELOW FLOOR.
6. PROVIDE LOCKABLE HANDLES FOR ALL MEDICAL GAS VALVES LOCATED ABOVE CEILING.
7. ALL DHW/DCW LINES TO FIXTURES TO BE 1/2"Ø UNLESS OTHERWISE NOTED.

SHEET KEYNOTES:

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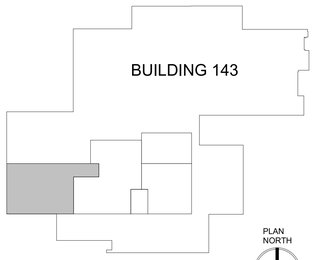

KEYPLAN

PLAN NORTH

ACTUAL NORTH

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Lic. No. 402055075
PROFESSIONAL ENGINEER

12-30-2025

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VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	VA Drawing Number
PLUMBING NEW WORK PLAN 1ST FLOOR, PHASE 1	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II	2617
		Project Number 658-19-103	Building Number 143
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Location SALEM VA MEDICAL CENTER	Drawing Number P1-P-111
		Issue Date 2025-12-30 / Checked GM / Drawn SP	

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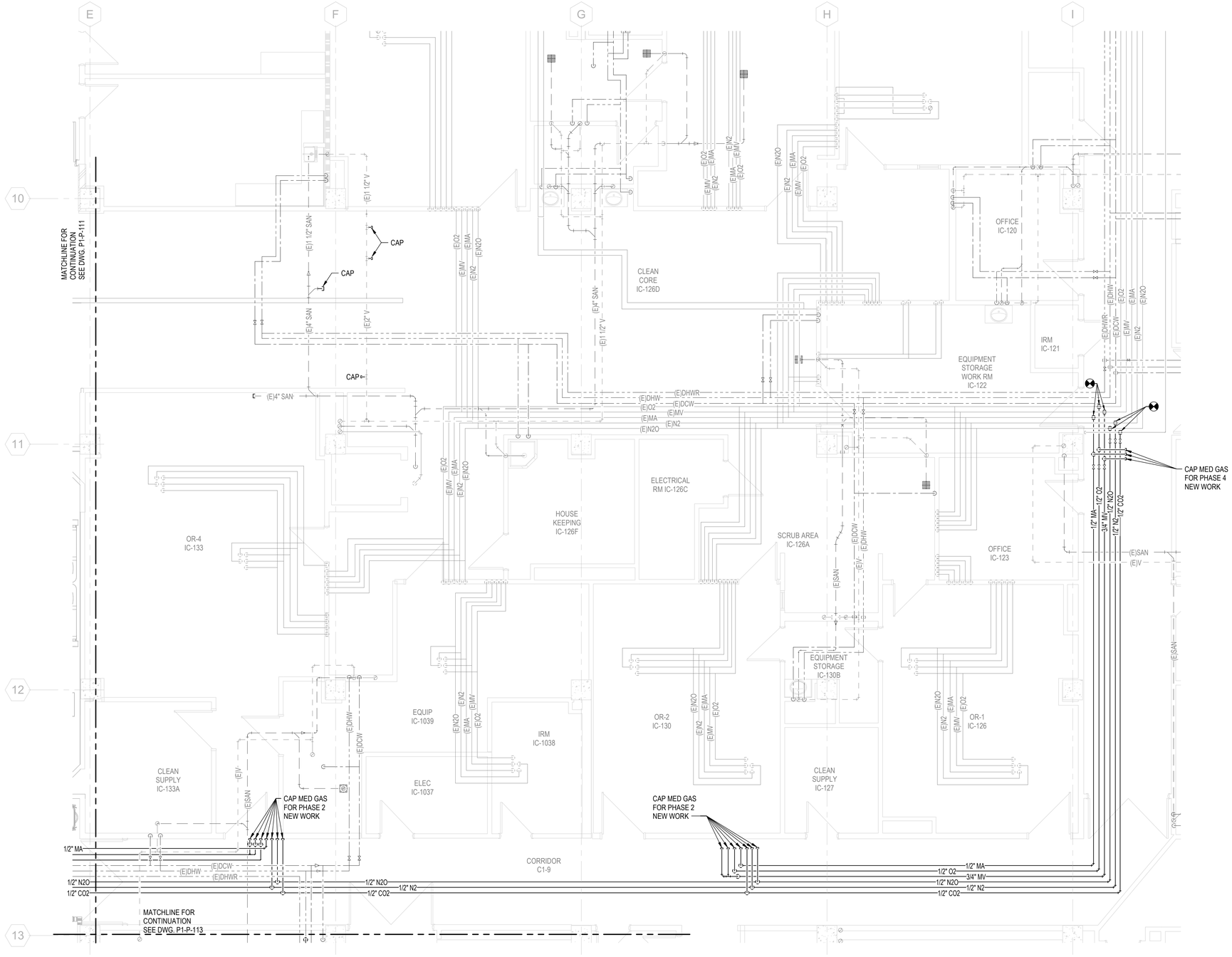

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5. SANITARY PIPING SHOWN ON THIS PLAN IS BELOW FLOOR.
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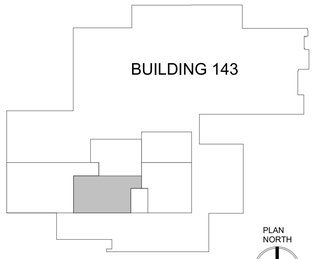
1 PLUMBING PLAN - 1ST FLOOR, PHASE 1

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



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12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	VA Drawing Number
PLUMBING NEW WORK PLAN 1ST FLOOR, PHASE 1	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II	2617
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Project Number 658-19-103	Building Number 143
		Location SALEM VA MEDICAL CENTER	Drawing Number P1-P-112
		Issue Date 2025-12-30 / Checked GM / Drawn SP	

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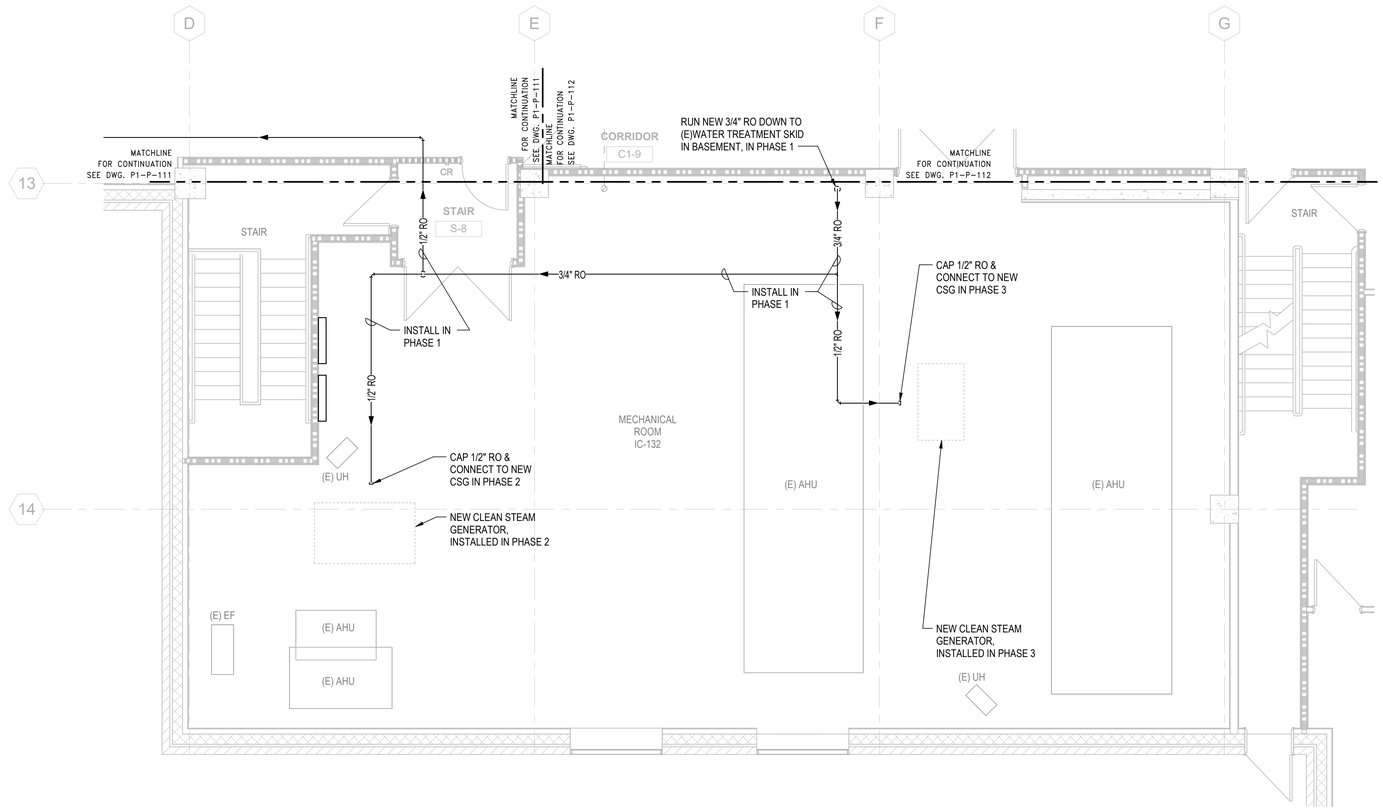
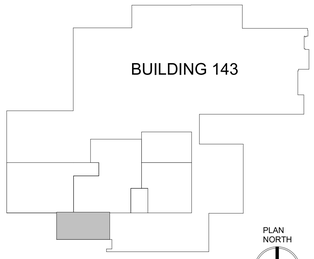


1 FLOOR PLAN - MECHANICAL ROOM
SCALE: 1/4" = 1'-0"



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ANTHONY DANIEL PACARO JR.
Lic. 0402055079
PROFESSIONAL ENGINEER
12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING NEW WORK PLAN MECHANICAL ROOM, PHASE 1

Approved by: Jon Manninen, COR

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATE SURGICAL SUITE PHASE II
Project Number: 658-19-103

Location: SALEM VA MEDICAL CENTER

Issue Date: 2025-12-30
Checked: CS
Drawn: SP

VA Drawing Number: 2617
Building Number: 143
Drawing Number: P1-P-113

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GENERAL SHEET NOTES:

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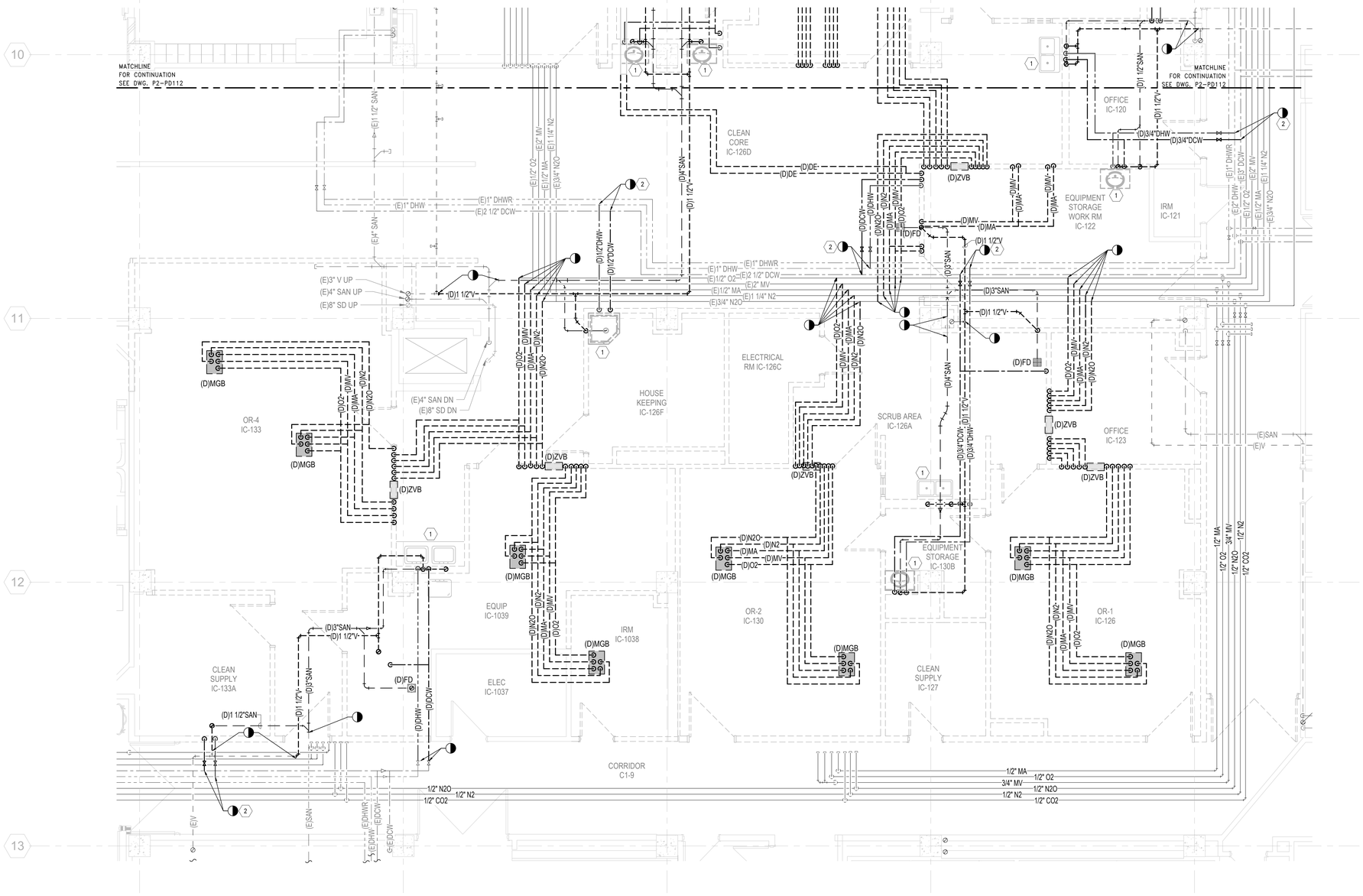
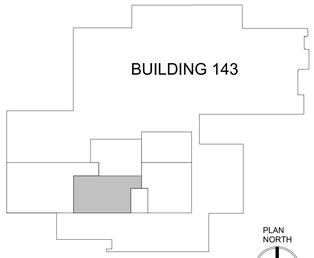


1 PLUMBING DEMOLITION PLAN - 1ST FLOOR, PHASE 2 (SOUTH)

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



KEYPLAN

PLAN NORTH

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CONSULTANT

Architecture: PF&A DESIGN, P.C.

Civil Engineering: LABELLA ASSOCIATES

Fire Protection: STANTON ENGINEERING SERVICES, LLC

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COMMONWEALTH OF VIRGINIA — ANTHONY DANIEL PACARO JR. — Lic. No. 0402055075 — PROFESSIONAL ENGINEER

12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING DEMOLITION PLAN 1ST FLOOR, PHASE 2 (SOUTH)

Approved by: Jon Manninen, COR

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATE SURGICAL SUITE PHASE II

Project Number: 658-19-103

Location: SALEM VA MEDICAL CENTER

Issue Date: 2025-12-30 | Checked: GM | Drawn: SP

VA Drawing Number: 2617

Building Number: 143

Drawing Number: P2-PD111

VA FORM 08 - 6231

GENERAL SHEET NOTES:

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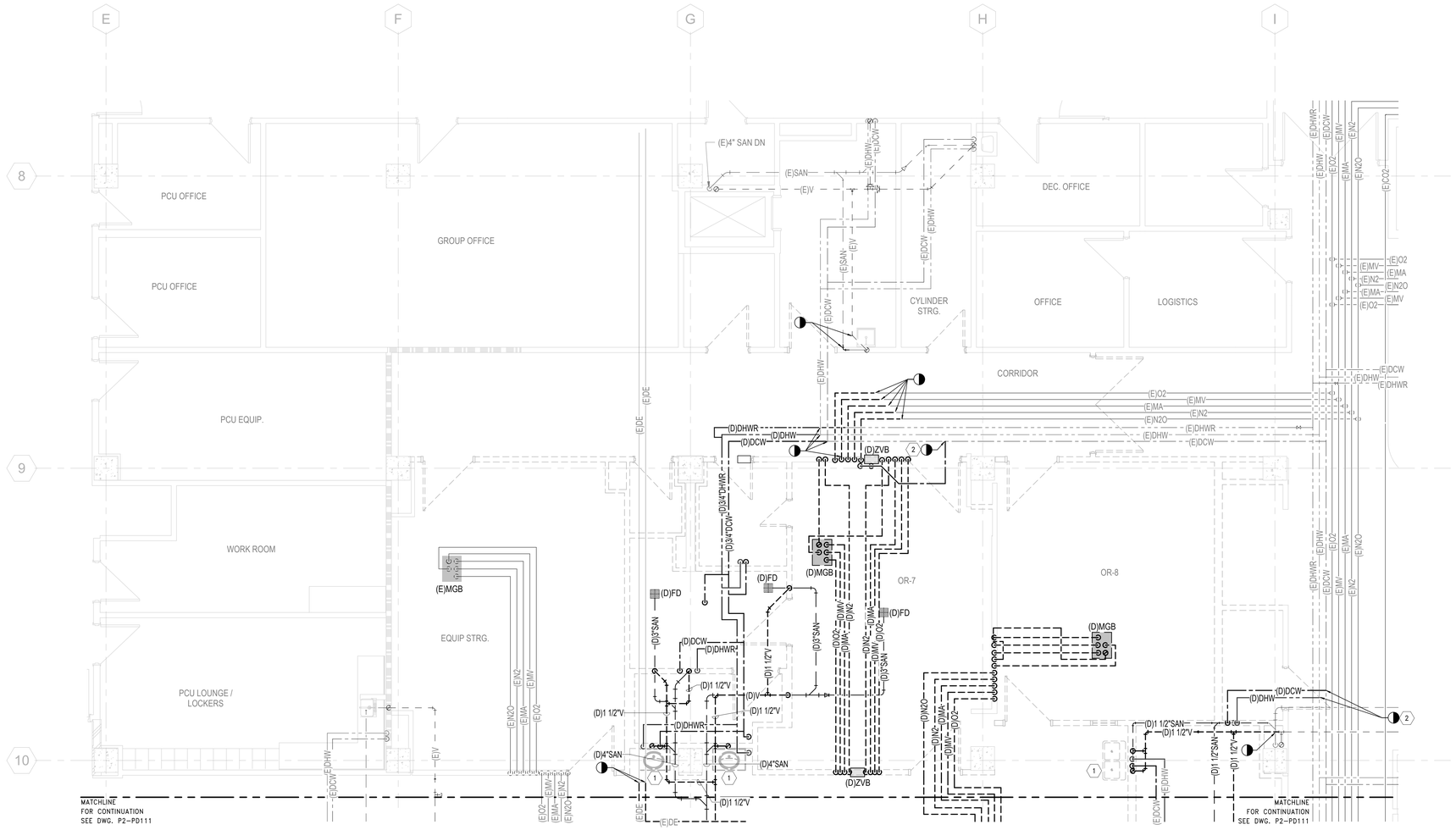
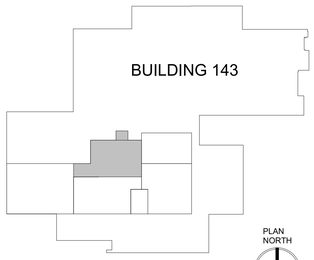


1 PLUMBING DEMOLITION PLAN - 1ST FLOOR, PHASE 2 (NORTH)
SCALE: 1/4" = 1'-0"



KEYPLAN

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ACTUAL NORTH

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CONSULTANT

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VA Registration Number: 36VS-23-0038

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COMMONWEALTH OF VIRGINIA
ANTHONY DANIEL PACARO JR.
Lic. No. 402055079
PROFESSIONAL ENGINEER
12-30-2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING DEMOLITION PLAN 1ST FLOOR, PHASE 2 (NORTH)
Approved by: Jon Manninen, COR

Phase: BID DOCUMENTS
FULLY SPRINKLERED

Project Title: RENOVATE SURGICAL SUITE PHASE II
Project Number: 658-19-103
Location: SALEM VA MEDICAL CENTER
Issue Date: 2025-12-30 | Checked: GM | Drawn: SP

VA Drawing Number: 2617
Building Number: 143
Drawing Number: P2-PD112

VA FORM 08 - 6231

12/29/2025 10:58:15 AM

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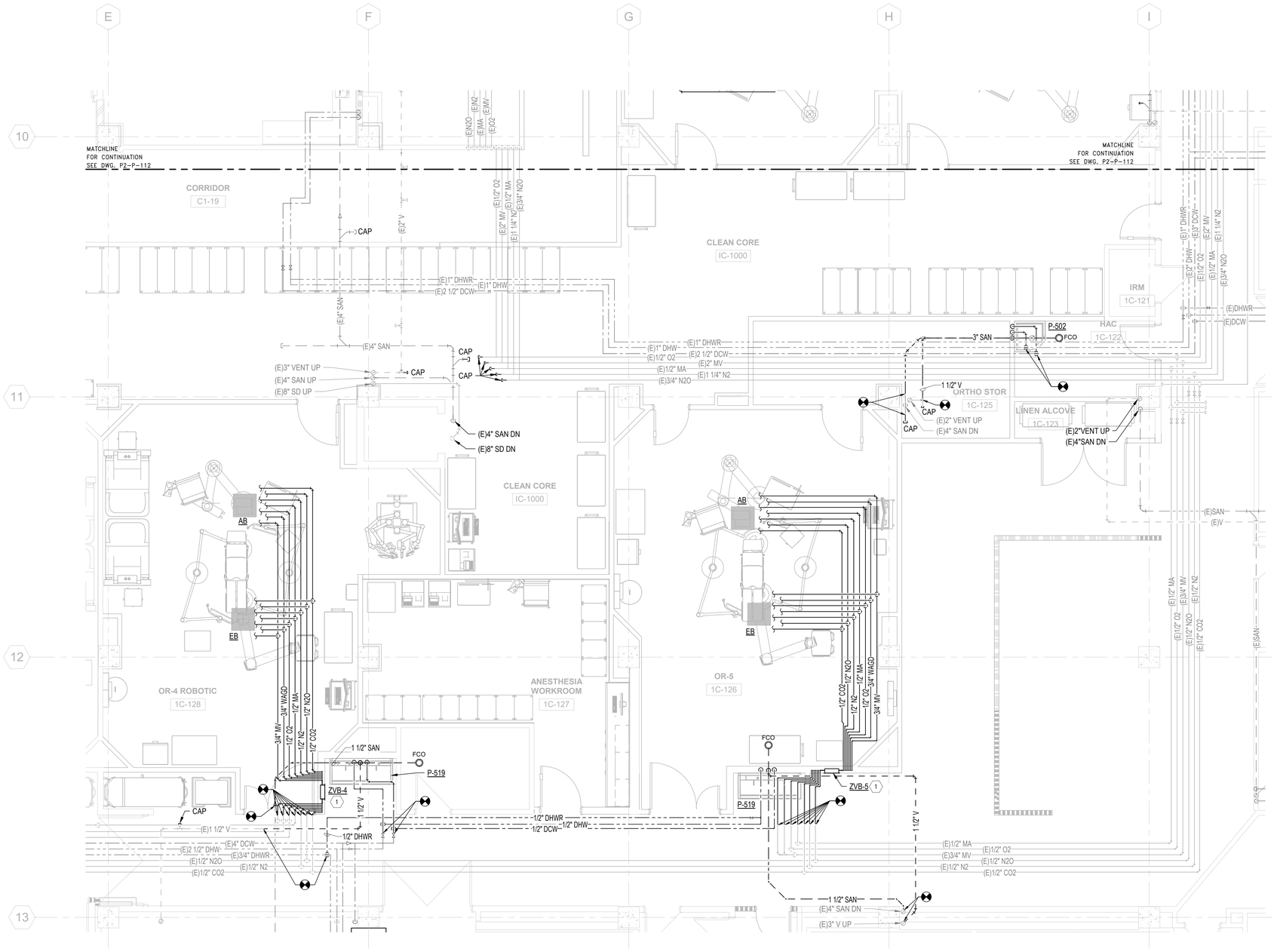
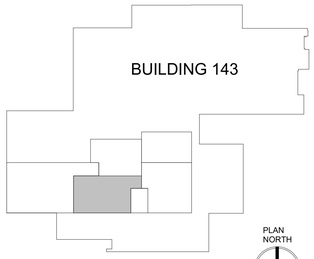


1 PLUMBING PLAN - 1ST FLOOR, PHASE 2 (SOUTH)
SCALE: 1/4" = 1'-0"



KEYPLAN

PLAN NORTH
ACTUAL NORTH

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Revisions: Date:

CONSULTANT

Architecture:	Civil Engineering:	Fire Protection:
PF&A DESIGN, P.C.	LABELLA ASSOCIATES	STANTON ENGINEERING SERVICES, LLC

ENGINEER OF RECORD

MILLER-REMICK
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12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	VA Drawing Number
PLUMBING NEW WORK PLAN 1ST FLOOR, PHASE 2 (SOUTH)	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II Project Number 658-19-103	2617
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Location: SALEM VA MEDICAL CENTER	Building Number: 143
		Issue Date: 2025-12-30 / Checked: GM / Drawn: SP	Drawing Number: P2-P-111

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VA FORM 08 - 6231

GENERAL SHEET NOTES:

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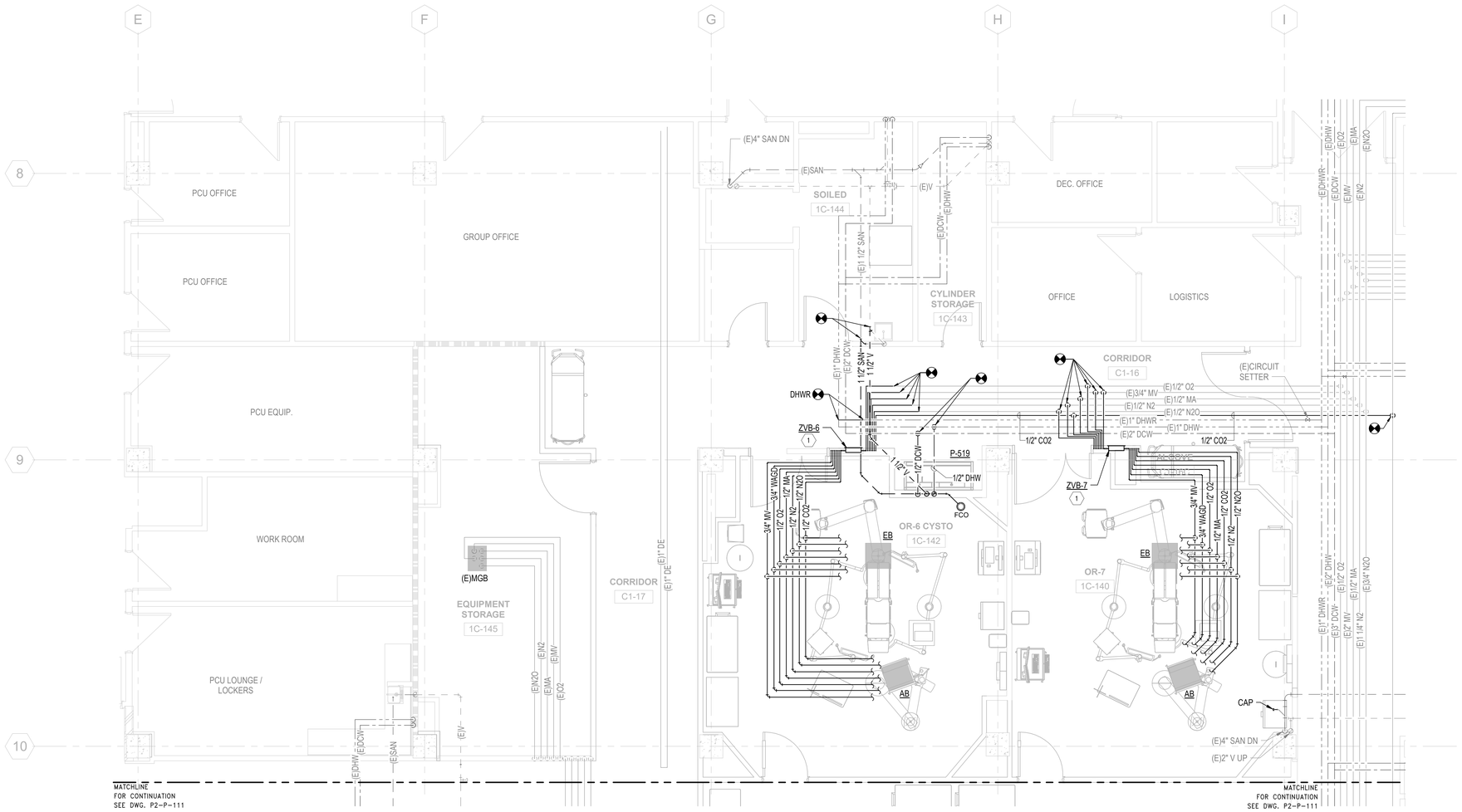
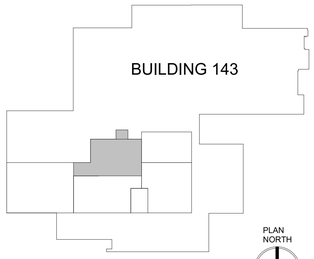
2. REFER TO DRAWING SERIES P-500 FOR PLUMBING DETAILS
3. REFER TO DRAWING SERIES P-600 FOR PLUMBING RISER DIAGRAMS
4. REFER TO DRAWING P-701 FOR PLUMBING SCHEDULES
5. SANITARY PIPING SHOWN ON THIS PLAN IS BELOW FLOOR.
6. PROVIDE LOCKABLE HANDLES FOR ALL MEDICAL GAS VALVES LOCATED ABOVE CEILING.
7. ALL DHW/DCW LINES TO FIXTURES TO BE 1/2"Ø UNLESS OTHERWISE NOTED.

SHEET KEYNOTES:

1 ZONE VALVE BOX. PROVIDE THE FOLLOWING MEDICAL GAS LINES TO / FROM ZVB – 1/2" MA, 3/4" MV, 1/2" O2, 1/2" N2O, 1/2" N2, 1/2" CO2 & 3/4" WAGD.



1 PLUMBING PLAN - 1ST FLOOR, PHASE 2 (NORTH)
SCALE: 1/4" = 1'-0"



KEYPLAN

PLAN NORTH
ACTUAL NORTH

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER

Revisions: Date:

CONSULTANT

Architecture:	Civil Engineering:	Fire Protection:
PF&A DESIGN, P.C.	LABELLA ASSOCIATES	STANTON ENGINEERING SERVICES, LLC

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MILLER-REMICK LLC PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA
ANTHONY DANIEL PACARO JR.
Lic. No. 402055079
PROFESSIONAL ENGINEER
12-30-2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING NEW WORK PLAN 1ST FLOOR, PHASE 2 (NORTH)
Approved by: Jon Manninen, COR

Phase: BID DOCUMENTS
FULLY SPRINKLERED

Project Title: RENOVATE SURGICAL SUITE PHASE II
Project Number: 658-19-103
Location: SALEM VA MEDICAL CENTER
Issue Date: 2025-12-30
Checked: GM
Drawn: SP

VA Drawing Number: 2617
Building Number: 143
Drawing Number: P2-P-112

VA FORM 08 - 6231

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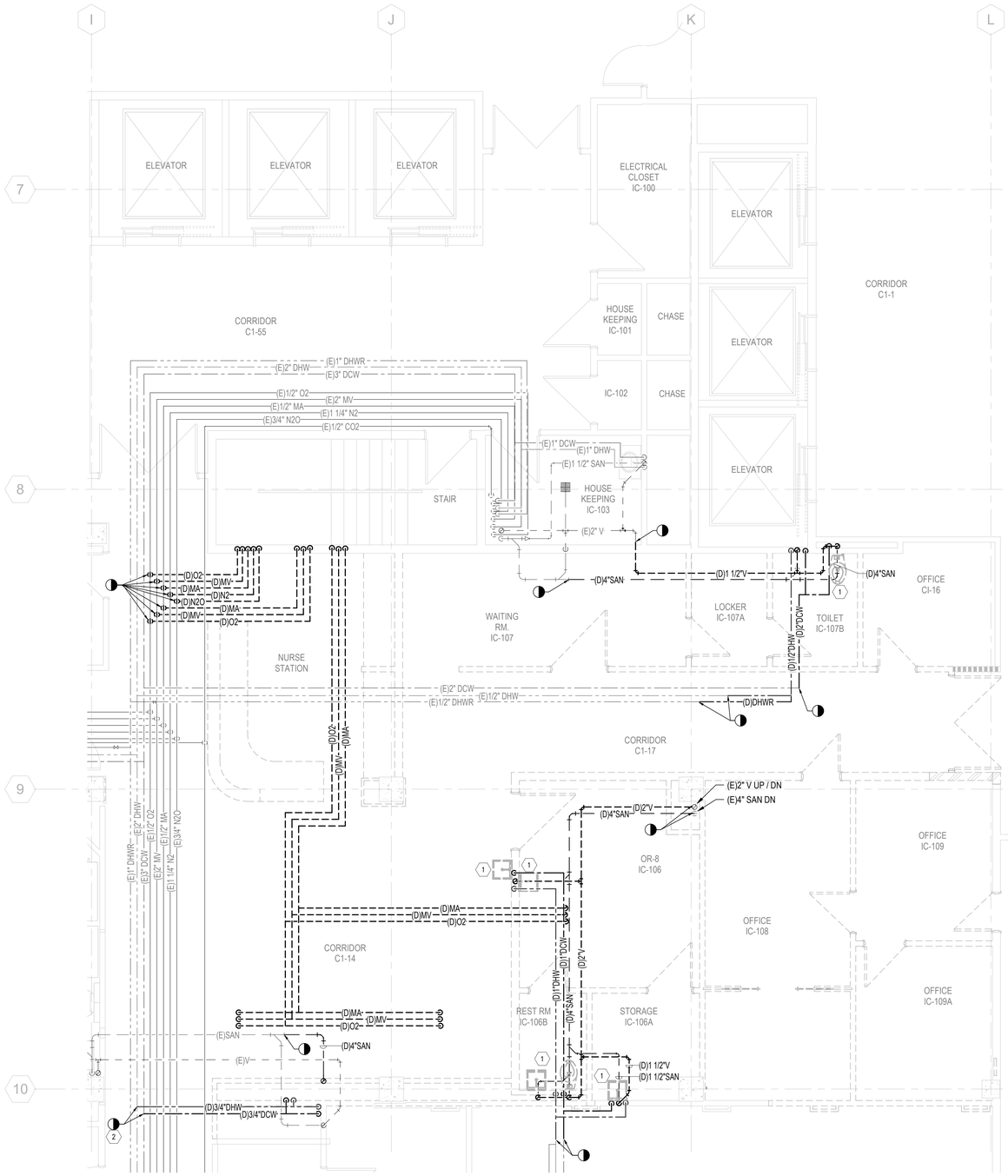
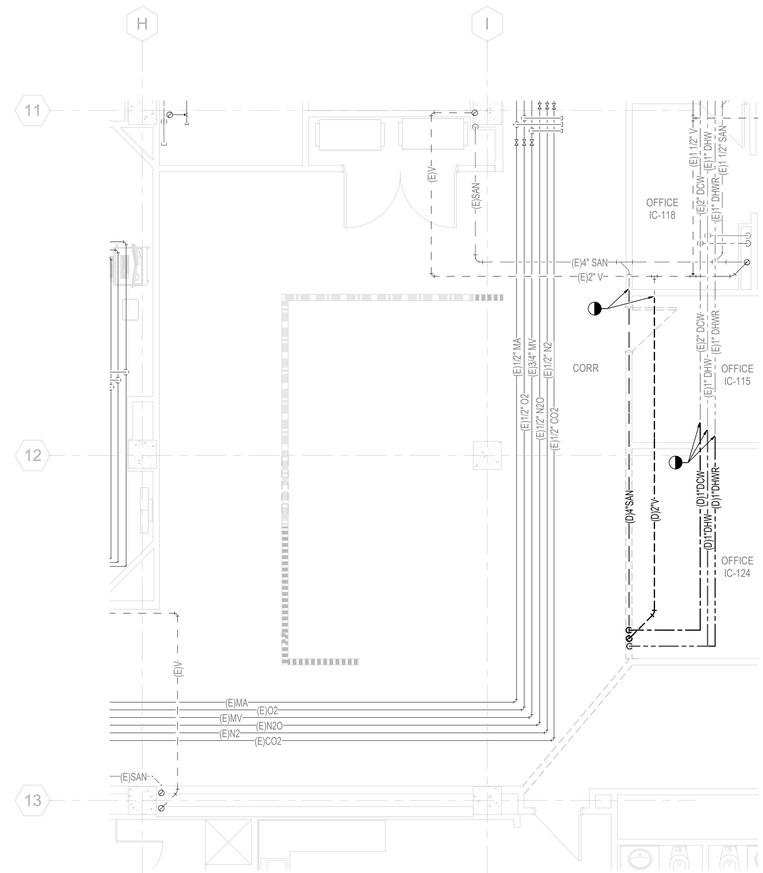


1 DEMOLITION PLAN - 1ST FLOOR, PHASE 3 (NORTH)

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



2 DEMOLITION PLAN - 1ST FLOOR, PHASE 3 (SOUTH)

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

GENERAL SHEET NOTES:

1. REFER TO DRAWING P-001 FOR PLUMBING ABBREVIATIONS, GENERAL NOTES & SYMBOLS.
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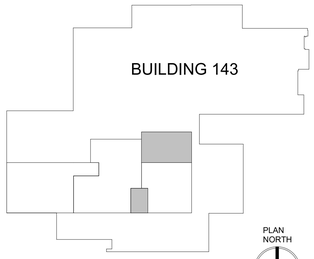
3. REFER TO DRAWING SERIES P-600 FOR PLUMBING RISER DIAGRAMS
4. REFER TO DRAWING P-701 FOR PLUMBING SCHEDULES
5. SANITARY PIPING SHOWN ON THIS PLAN IS BELOW FLOOR.

SHEET KEYNOTES:

1 DEMOLISH EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING.

2 REMOVE DEAD LEGS FROM HOT AND COLD WATER PIPES AND INSTALL SPOOL PIECE. WHERE IT IS NOT POSSIBLE, LIMIT DEAD LEG TO 1.5 x PIPE DIAMETER.



KEYPLAN

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Revisions: Date:

CONSULTANT

Architecture: PF&A DESIGN, P.C.

Civil Engineering: LABELLA ASSOCIATES

Fire Protection: STANTON ENGINEERING SERVICES, LLC

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ANTHONY DANIEL PACARO JR.
Lic. No. 402055079
PROFESSIONAL ENGINEER

12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING DEMOLITION PLAN 1ST FLOOR, PHASE 3

Approved by: Jon Manninen, COR

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATE SURGICAL SUITE PHASE II

Project Number: 658-19-103

Location: SALEM VA MEDICAL CENTER

Issue Date: 2025-12-30

Checked: GM

Drawn: SP

VA Drawing Number: 2617

Building Number: 143

Drawing Number: P3-PD111

VA FORM 08 - 6231

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GENERAL SHEET NOTES:

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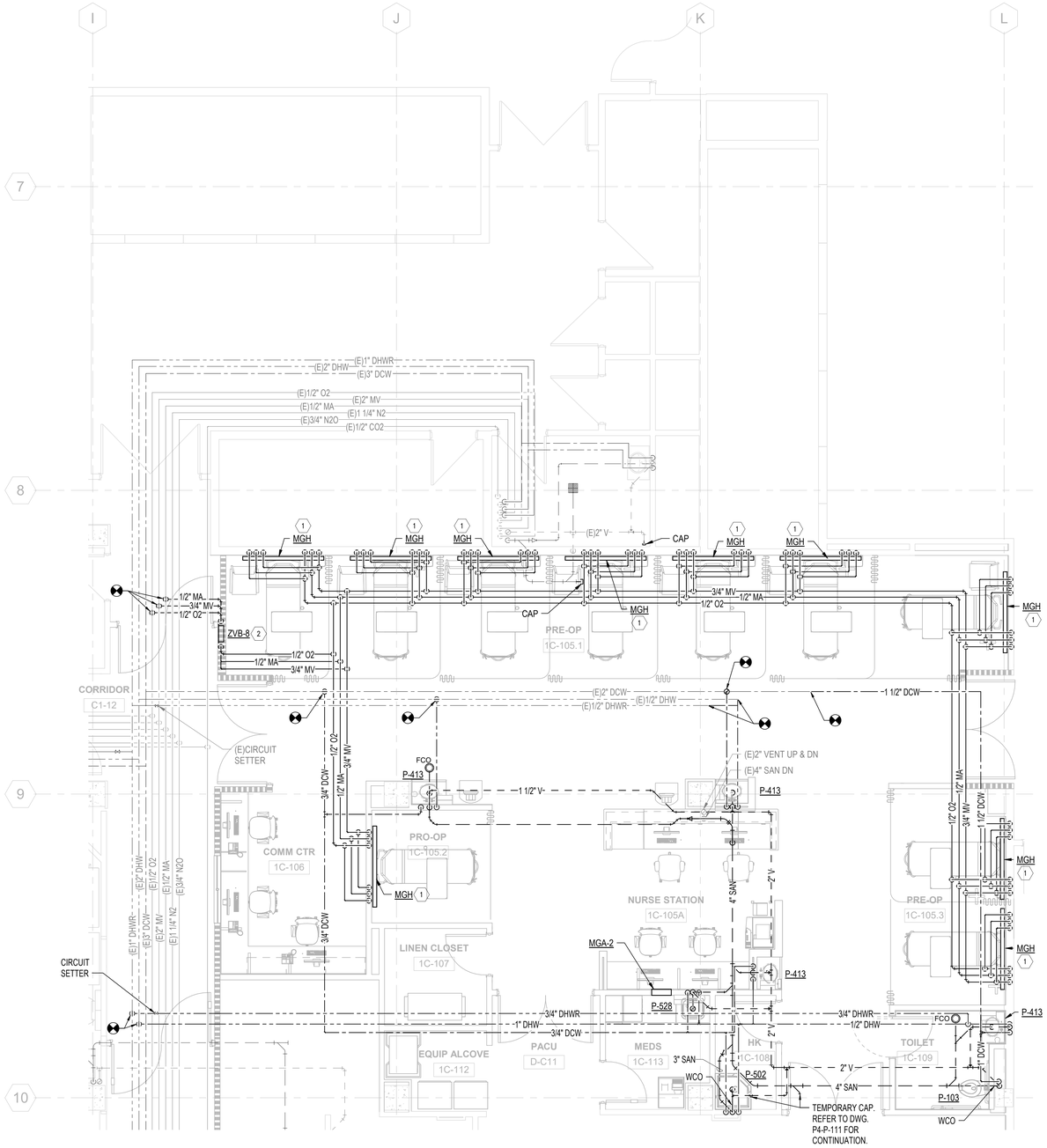
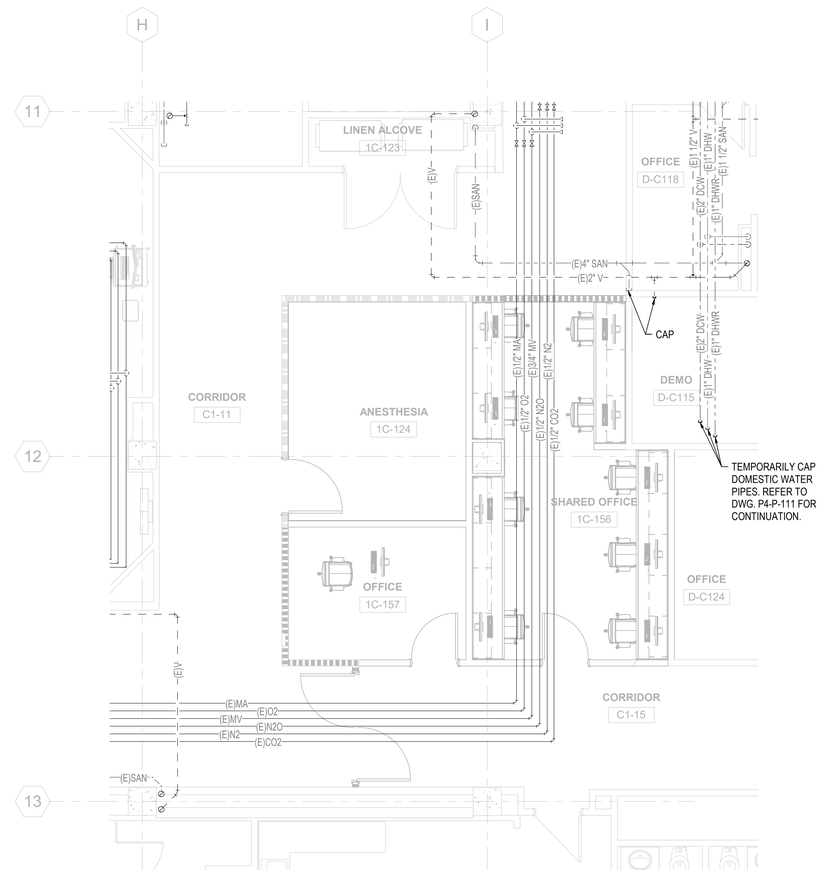
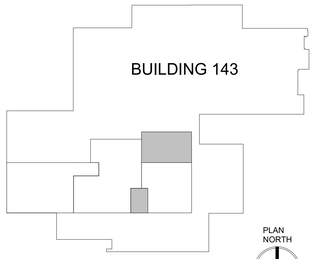
2 ZONE VALVE BOX. PROVIDE THE FOLLOWING MEDICAL GAS LINES TO / FROM ZVB – 3/4" MV, 1/2" MA & 1/2" O2.



1 PLUMBING PLAN - 1ST FLOOR, PHASE 3 (NORTH)
SCALE: 1/4" = 1'-0"



2 PLUMBING PLAN - 1ST FLOOR, PHASE 3 (SOUTH)
SCALE: 1/4" = 1'-0"



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COMMONWEALTH OF VIRGINIA
ANTHONY DANIEL PACARO JR. IV
Lic. No. 402055079
PROFESSIONAL ENGINEER
12-30-2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING NEW WORK PLAN 1ST FLOOR, PHASE 3
Approved by: Jon Manninen, COR

Phase: BID DOCUMENTS
FULLY SPRINKLERED

Project Title: RENOVATE SURGICAL SUITE PHASE II
Project Number: 658-19-103
Location: SALEM VA MEDICAL CENTER
Issue Date: 2025-12-30
Checked: GM
Drawn: SP

VA Drawing Number: 2617
Building Number: 143
Drawing Number: P3-P-111

VA FORM 08 - 6231
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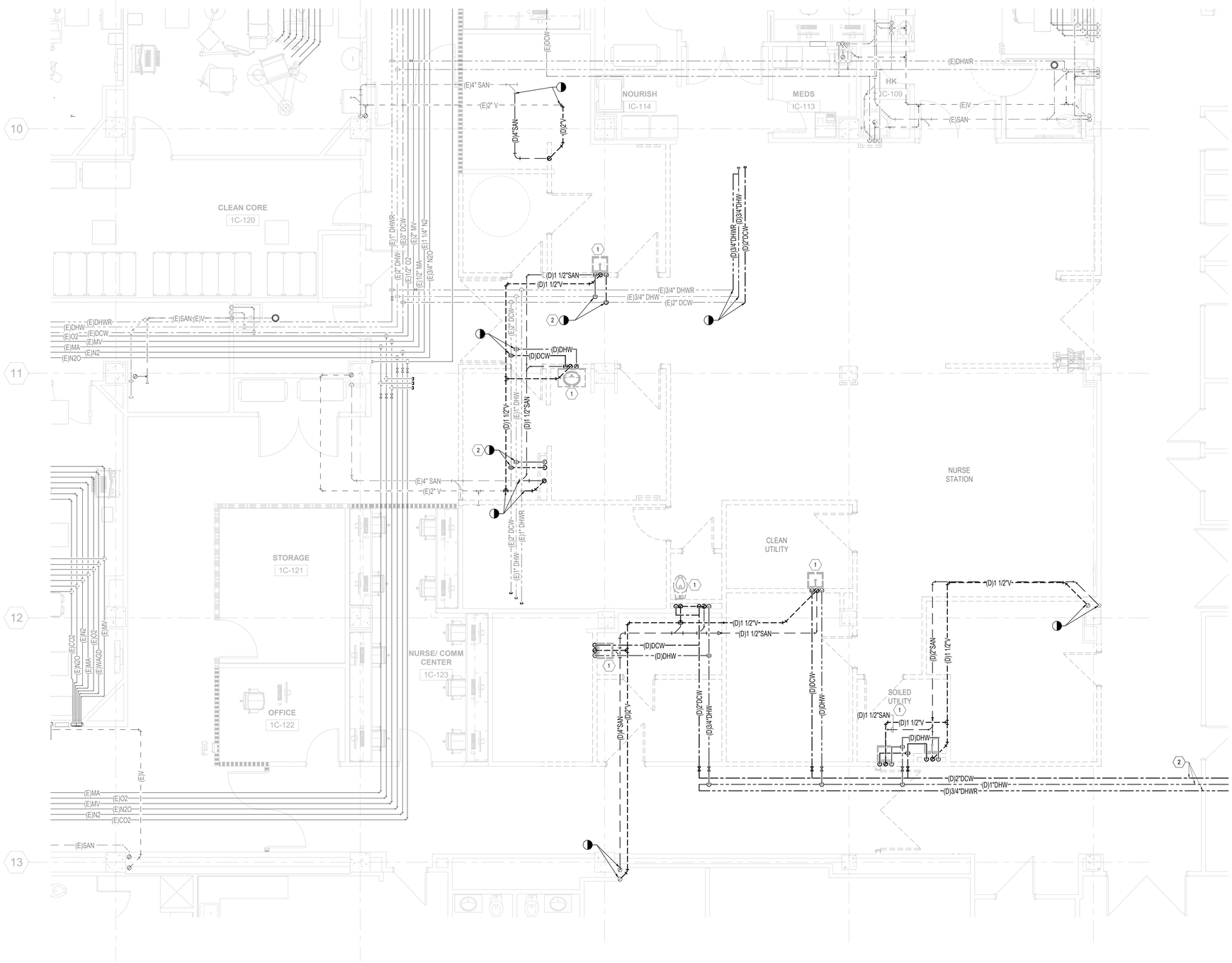

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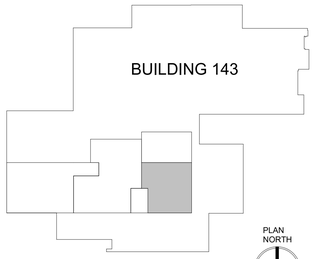
1 DEMOLITION PLUMBING PLAN - 1ST FLOOR, PHASE 4

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



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Revisions: Date:

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VA FORM 08 - 6231

CONSULTANT

Architecture:	Civil Engineering:	Fire Protection:
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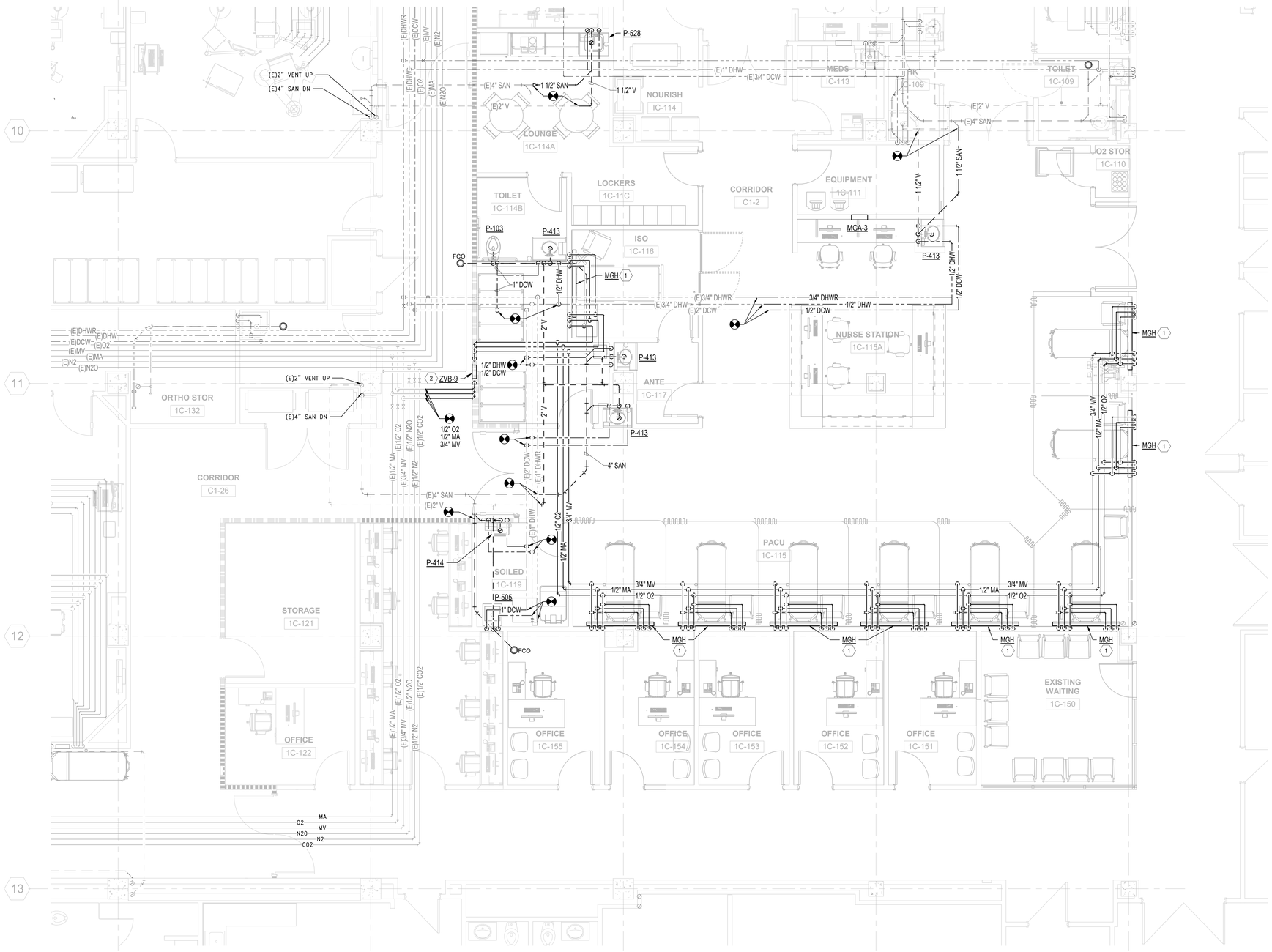
COMMONWEALTH OF VIRGINIA — ANTHONY DANIEL PACARO JR. — Lic. No. 0402055076 — PROFESSIONAL ENGINEER

12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	PLUMBING DEMOLITION PLAN 1ST FLOOR, PHASE 4
Approved by:	Jon Manninen, COR
Phase	BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	RENOVATE SURGICAL SUITE PHASE II
Project Number	658-19-103
Location	SALEM VA MEDICAL CENTER
Issue Date	2025-12-30
Checked	GM
Drawn	SP
VA Drawing Number	2617
Building Number	143
Drawing Number	P4-PD111



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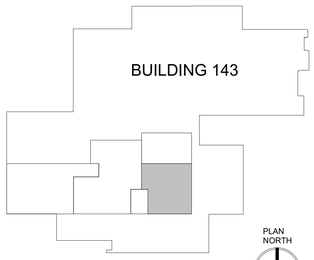

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Revisions: Date:

CONSULTANT

Architecture: PF&A DESIGN, P.C.

Civil Engineering: LABELLA ASSOCIATES

Fire Protection: STANTON ENGINEERING SERVICES, LLC

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12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING NEW WORK PLAN 1ST FLOOR, PHASE 4

Approved by: Jon Manninen, COR

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATE SURGICAL SUITE PHASE II

Project Number: 658-19-103

Location: SALEM VA MEDICAL CENTER

Issue Date: 2025-12-30

Checked: GM

Drawn: SP

VA Drawing Number: 2617

Building Number: 143

Drawing Number: P4-P-111

VA FORM 08 - 6231

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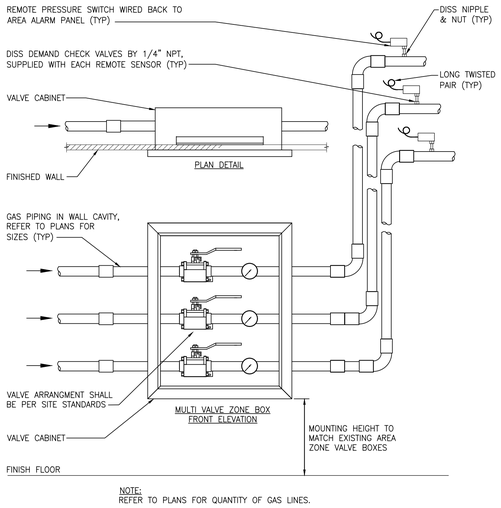
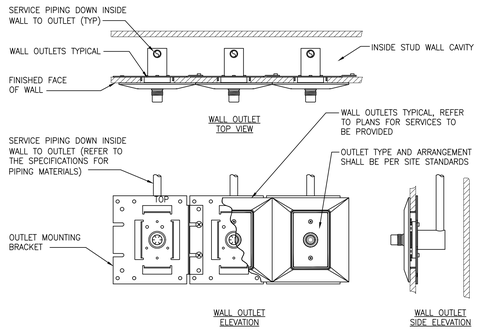
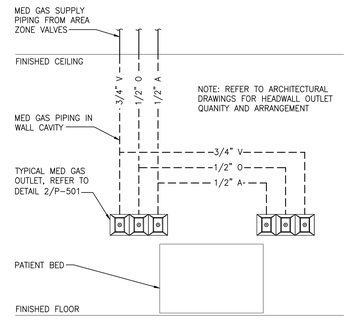


NOTE:
REFER TO PLANS FOR QUANTITY OF GAS LINES.

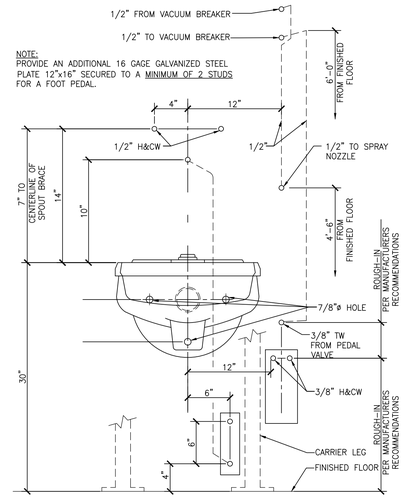
1 MED GAS ZONE VALVE BOX DETAIL
SCALE: NTS



2 TYPICAL MED GAS WALL OUTLET DETAIL
SCALE: NTS

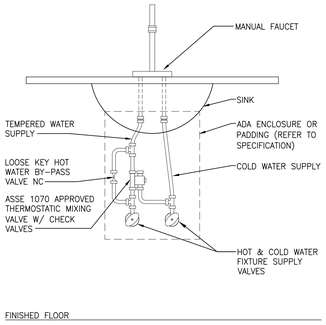


3 TYPICAL HEADWALL MED GAS DETAIL
SCALE: NTS

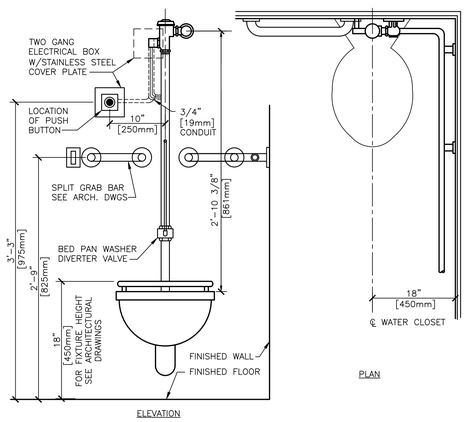


NOTE:
PROVIDE AN ADDITIONAL 16 GAGE GALVANIZED STEEL PLATE 12"x16" SECURED TO A MINIMUM OF 2 STUDS FOR A FOOT PEDAL.

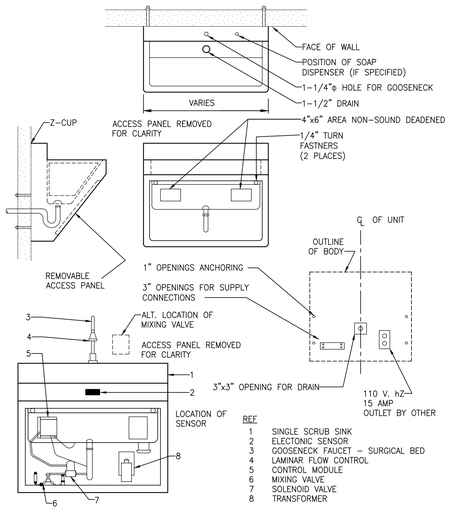
4 TYPICAL CLINIC SINK ROUGH-IN DETAIL
SCALE: NTS



5 TYPICAL MANUAL FAUCET PIPING DETAIL
SCALE: NTS



6 P-103 WATER CLOSET DETAIL
SCALE: NTS



REF
1 SINGLE SCRUB SINK
2 ELECTONIC SENSOR
3 GOOSENECK FAUCET – SURGICAL BED
4 LAMINAR FLOW CONTROL
5 CONTROL MODULE
6 MIXING VALVE
7 SOLENOID VALVE
8 TRANSFORMER

7 TYPICAL SCRUB SINK DETAIL
SCALE: NTS

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NO.	DESCRIPTION	DATE

CONSULTANTS

Architecture:	Civil Engineering:	Fire & Life Safety:
PF&A DESIGN, P.C.	LABELLA ASSOCIATES	STANTON ENGINEERING SERVICES, LLC

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M-R PROJECT NO 0499-0136

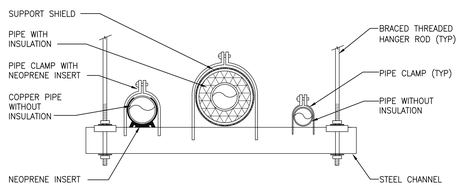
MILLER-REMICK LLC
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA
ANTHONY DANIEL PACARO JR.
Lic. No. 402055079
PROFESSIONAL ENGINEER
12-30-2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

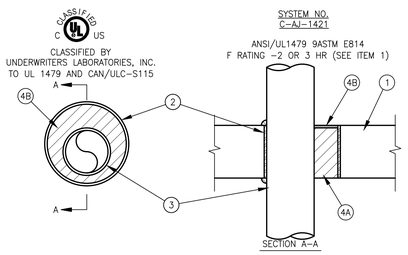
Drawing Title	Phase	Project Title	VA Drawing Number
PLUMBING DETAILS	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II Project Number 658-19-103	2617
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Location: SALEM VA MEDICAL CENTER	Building Number 143
		Issue Date 2025-12-30 / Checked BH / Drawn pd	Drawing Number P-501

VA FORM 08-6231

P:\0499_DVA\0499-0136 Salem Renovate Surgical Suite\4_Drawings\1_Cad\1_Current Submittal Phase\5_Plumbing\P-501.dwg 12-29-25 10:25:43 AM sporte



1 TYPICAL TRAPEZE PIPE SUPPORT DETAIL
SCALE: NTS



1. EXISTING FLOOR OR WALL ASSEMBLY – MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX. DIAM OF OPENING IS 6 IN.

2. METALLIC SLEEVE – (OPTIONAL) NOM 6 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES.

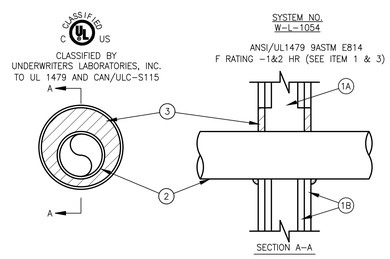
3. THROUGH PENETRANTS – ONE METALLIC PIPE OR TUBING TO BE EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN. 0 IN. (POINT CONTACT) TO A MAX 5-3/8 IN. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
   A. STEEL PIPE – NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. COPPER TUBING – NOM 4 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

4. FIRESTOP SYSTEM – THE FIRE STOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. PACKING MATERIAL – MIN 4 IN. THICKNESS OF 4 PCF 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 TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIAL* – SEALANT – MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH THE TOP SURFACE OF THE FLOOR OR BOTH SURFACES OF WALL. FOR 3 HR RATED ASSEMBLIES, A MIN 1/4 IN. 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 FS-ONE MAX INTUMESCENT SEALANT

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR cUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR cUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

2 TYPICAL CONCRETE OR MASONRY PIPE PENETRATION
SCALE: NTS



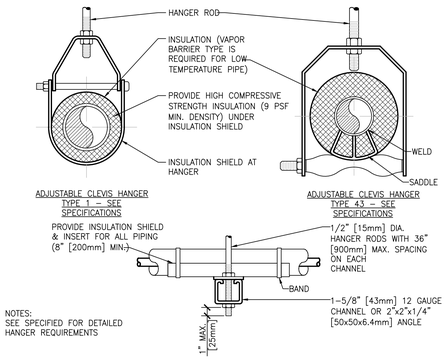
1. EXISTING WALL ASSEMBLY – 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY.

2. THROUGH PENETRANTS ONE METALLIC PIPE 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 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 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. COPPER TUBING – NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

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 LOCATION 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.

*INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR cUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR cUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

3 TYPICAL GYPSUM STUB WALL PIPE PENETRATION
SCALE: NTS



MAXIMUM PIPE/TUBING SUPPORT SPACING													
NOM. SIZE	IN. [mm]	THRU 3/4 THRU [20]	1 [25]	1 1/4 [32]	1 1/2 [40]	2 [50]	2 1/2 [65]	3 [75]	4 [100]	5 [125]	6 [150]	8 [200]	10 [250]
PIPE	FT. [mm]	7 [2100]	7 [2100]	7 [2100]	9 [2700]	10 [3000]	11 [3400]	12 [3700]	14 [4100]	16 [4900]	17 [5200]	19 [5800]	22 [6700]
TUBING	FT. [mm]	5 FT [1500]	6 [1800]	7 [2100]	8 [2400]	8 [2400]	9 [2700]	10 [3000]	12 [3700]	13 [4000]	14 [4100]	16 [4900]	– –
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.													

4 PIPE HANGER DETAIL
SCALE: NTS

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

CONSULTANTS

Architecture:	Civil Engineering:	Fire & Life Safety:
PF&A DESIGN, P.C.	LABELLA ASSOCIATES	STANTON ENGINEERING SERVICES, LLC

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M & R PROJECT NO. 24-0499-0136

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ANTHONY DANIEL PACARO JR.
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PROFESSIONAL ENGINEER
12-30-2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING DETAILS
Approved by: Jon Manninen, COR
Phase: BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE SURGICAL SUITE PHASE II
Project Number: 658-19-103
Location: SALEM VA MEDICAL CENTER
Issue Date: 2025-12-30
Checked: BH
Drawn: pd
VA Drawing Number: 2617
Building Number: 143
Drawing Number: P-502

VA FORM 08-6231

P:\0499_DVA\0499-0136 Salem Renovate Surgical Suite\4_Drawings\1_Cad\1_Current Submittal Phase\5_Plumbing\P-502.dwg 12-29-25 10:25:44 AM sporto

GENERAL SHEET NOTES:

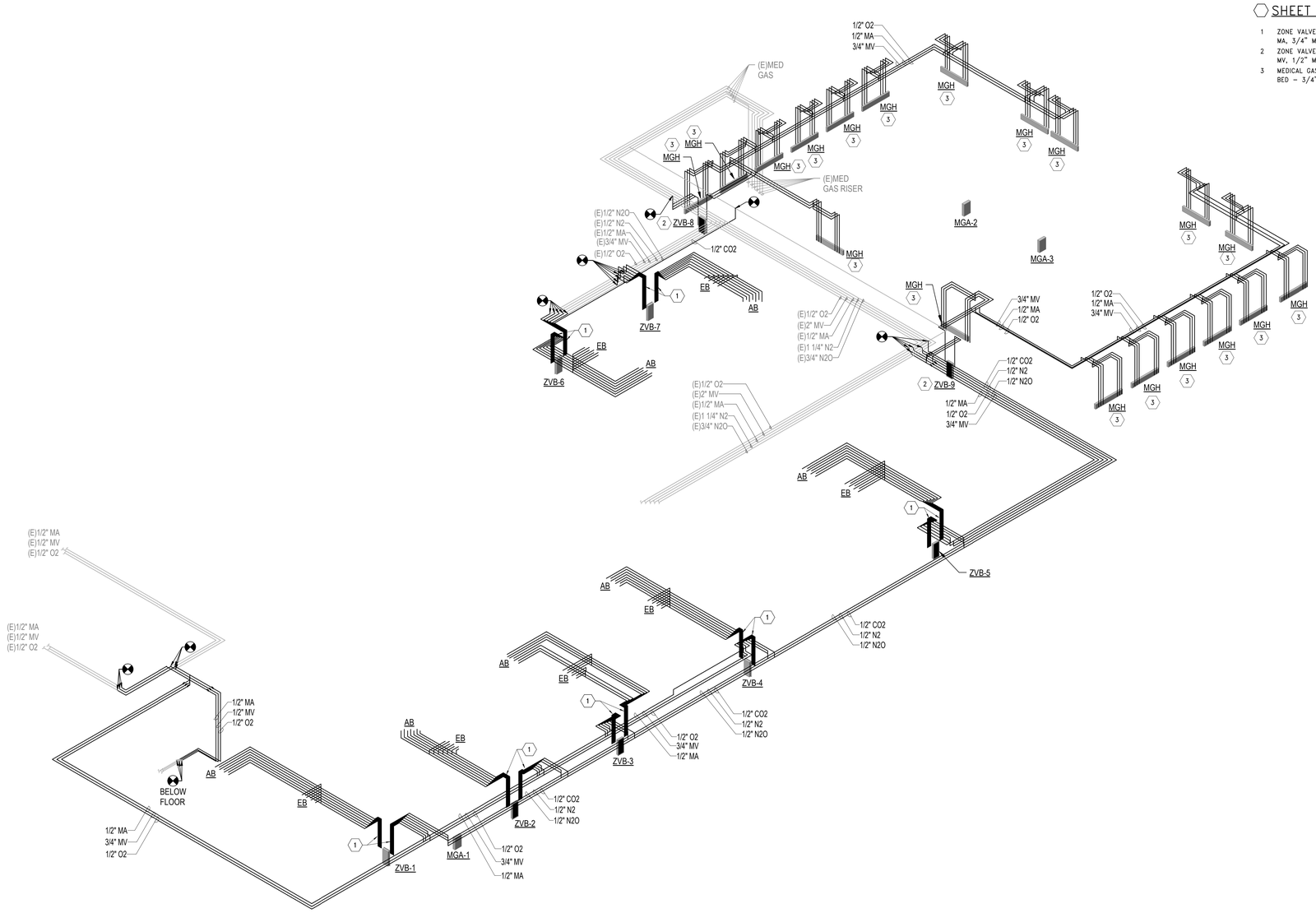
1. REFER TO DRAWING P-001 FOR PLUMBING ABBREVIATIONS, GENERAL NOTES & SYMBOLS.
2. REFER TO DRAWING SERIES P-500 FOR PLUMBING DETAILS
3. REFER TO DRAWING SERIES P-600 FOR PLUMBING RISER DIAGRAMS
4. REFER TO DRAWING P-701 FOR PLUMBING SCHEDULES
5. SANITARY PIPING SHOWN ON THIS PLAN IS BELOW FLOOR.

SHEET KEYNOTES:

1 ZONE VALVE BOX. PROVIDE THE FOLLOWING MEDICAL GAS LINES TO / FROM ZVB – 1/2" MA, 3/4" MV, 1/2" O2, 1/2" N2O, 1/2" N2, 1/2" CO2 & 3/4" WAGD.

2 ZONE VALVE BOX. PROVIDE THE FOLLOWING MEDICAL GAS LINES TO / FROM ZVB – 3/4" MV, 1/2" MA & 1/2" O2.

3 MEDICAL GAS HEADWALL. PROVIDE THE FOLLOWING MEDICAL GAS LINES FOR EACH PATIENT BED – 3/4" MV, 1/2" MA & 1/2" O2. REFER TO DETAIL 3 / P-501.



1 ISOMETRIC DIAGRAM MEDICAL GAS
SCALE: NTS

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Revisions: Date:

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12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING ISOMETRIC DIAGRAM MEDICAL GAS

Approved by: Jon Manninen, COR

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATE SURGICAL SUITE PHASE II

Project Number: 658-19-103

Location: SALEM VA MEDICAL CENTER

Issue Date: 2025-12-30 | Checked: JS | Drawn: SP

VA Drawing Number: 2617

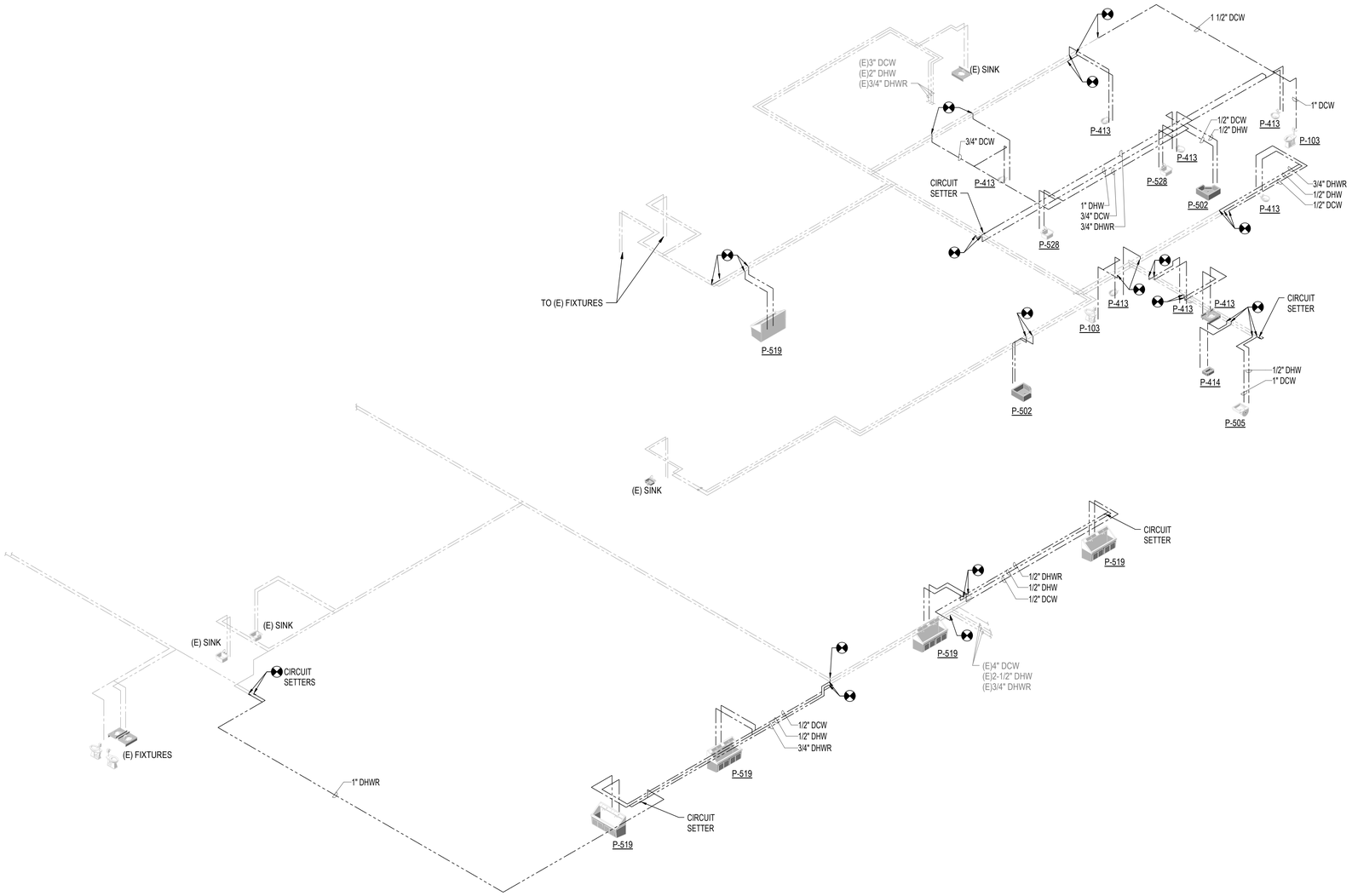
Building Number: 143

Drawing Number: P-601

VA FORM 08 - 6231

GENERAL SHEET NOTES:

1. REFER TO DRAWING P-001 FOR PLUMBING ABBREVIATIONS, GENERAL NOTES & SYMBOLS.
2. REFER TO DRAWING SERIES P-500 FOR PLUMBING DETAILS
3. REFER TO DRAWING SERIES P-600 FOR PLUMBING RISER DIAGRAMS
4. REFER TO DRAWING P-701 FOR PLUMBING SCHEDULES
5. ALL DHW/DCW LINES TO FIXTURES TO BE 1/2"Ø UNLESS OTHERWISE NOTED.



1 ISOMETRIC DIAGRAM DOMESTIC WATER
SCALE: NTS

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Revisions: Date:

12/29/2025 10:20:04 AM

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12-30-2025

Office of Construction and Facilities Management

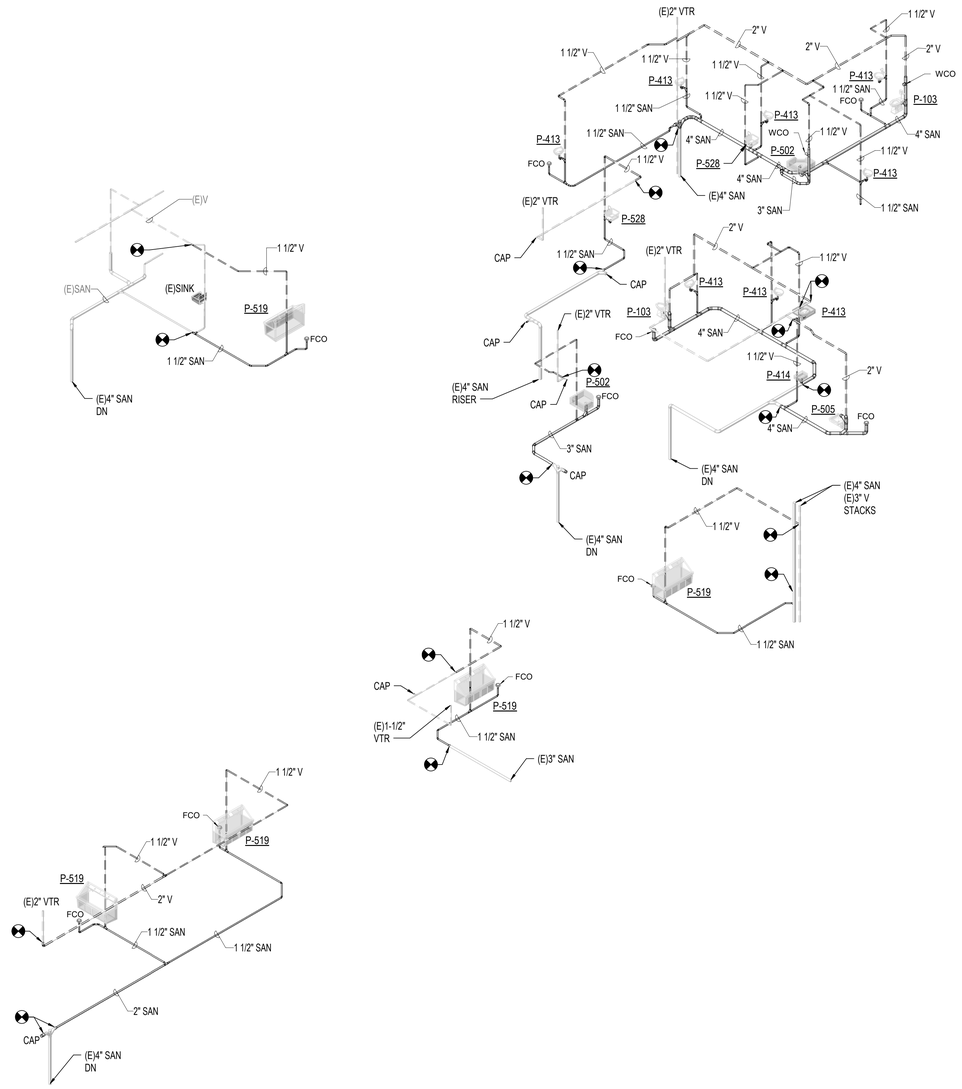
VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	VA Drawing Number
PLUMBING ISOMETRIC DIAGRAM DOMESTIC WATER	BID DOCUMENTS	RENOVATE SURGICAL SUITE PHASE II Project Number 658-19-103	2617
Approved by: Jon Manninen, COR	FULLY SPRINKLERED	Location: SALEM VA MEDICAL CENTER	Building Number 143
		Issue Date 2025-12-30 / Checked JS / Drawn SP	Drawing Number P-602

VA FORM 08 - 6231

GENERAL SHEET NOTES:

1. REFER TO DRAWING P-001 FOR PLUMBING ABBREVIATIONS, GENERAL NOTES & SYMBOLS.
2. REFER TO DRAWING SERIES P-500 FOR PLUMBING DETAILS
3. REFER TO DRAWING SERIES P-600 FOR PLUMBING RISER DIAGRAMS
4. REFER TO DRAWING P-701 FOR PLUMBING SCHEDULES



1 ISOMETRIC DIAGRAM SANITARY & VENT
SCALE: NTS

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Revisions: Date:

12/29/2025 10:20:10 AM

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12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING ISOMETRIC DIAGRAM SANITARY & VENT

Approved by: Jon Manninen, COR

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATE SURGICAL SUITE PHASE II
Project Number: 658-19-103

Location: SALEM VA MEDICAL CENTER

Issue Date: 2025-12-30
Checked: JS
Drawn: SP

VA Drawing Number: 2617
Building Number: 143
Drawing Number: P-603

VA FORM 08 - 6231

EQUIPMENT CONNECTION SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	EQUIPMENT DESCRIPTION	OXYGEN	MED AIR	NITROGEN	NITROUS OXIDE	CARBON DIOXIDE	VACUUM	WAGD
				IN	IN	IN	IN	IN	IN	IN
AB	OR'S	MEDICAL GAS	ANESTHESIA BOOM	1/2	1/2	1/2	1/2	1/2	3/4	3/4
EB	OR'S	MEDICAL GAS	EQUIP BOOM	1/2	1/2	1/2	1/2	1/2	3/4	3/4
MGH	PRE-OP	MEDICAL GAS	MEDICAL HEADWALL	1/2	1/2	-	-	-	3/4	-

MEDICAL GAS ALARM PANEL SCHEDULE

MARK	LOCATION	TYPE OF PANEL	GAGES	TEST BUTTON	ABNORMAL SERVICE PRESSURE INDICATOR LIGHTS						
					CARBON DIOXIDE	MEDICAL AIR	MED VACUUM	WAGD	NITROGEN	NITROUS OXIDE	OXYGEN
MGA-1	OR	AREA ALARM	YES	YES	NO	YES	YES	YES	YES	YES	YES
MGA-2	PRE-OP	AREA ALARM	YES	YES	NO	YES	YES	YES	NO	NO	YES
MGA-3	PACU	AREA ALARM	YES	YES	NO	YES	YES	YES	NO	NO	YES

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	WASTE PIPE	VENT PIPE	COLD WATER	HOT WATER	WASTE FIXTURE UNITS	WATER FIXTURE UNITS	WRIST BLADE HANDLES	ELECTRIC SENSOR	REMARKS
		IN	IN	IN	IN					
P-103	WATER CLOSET	4	2	1		4	10	NO	YES	WALL HUNG
P-413	LAVATORY	1-1/2	1-1/2	1/2	1/2	1	1	YES	NO	COUNTERTOP, WITH WATER TEMPERATURE LIMITING DEVICE
P-414	LAVATORY	1-1/2	1-1/2	1/2	1/2	1	1	YES	NO	WALL HUNG, WITH WATER TEMPERATURE LIMITING DEVICE
P-502	MOP RECEPTOR	3	1-1/2	1/2	1/2	2	4	NO	NO	FLOOR MOUNTED
P-505	CLINIC SINK	4	2	1	1/2	5	10	NO	NO	
P-519	SCRUB SINK	1-1/2	1-1/2	1/2	1/2	3	2	NO	NO	FLOOR MOUNTED, DOUBLE STATION
P-528	SINK	1-1/2	1-1/2	1/2	1/2	3	2	NO	NO	COUNTERTOP, WITH WATER TEMPERATURE LIMITING DEVICE

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NO.	DESCRIPTION	DATE

CONSULTANTS

Architecture:	Civil Engineering:	Fire & Life Safety:
PF&A DESIGN, P.C.	LABELLA ASSOCIATES	STANTON ENGINEERING SERVICES, LLC

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12-30-2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING SCHEDULES

Approved by: Jon Manninen, COR

Phase: BID DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATE SURGICAL SUITE PHASE II

Project Number: 658-19-103

Location: SALEM VA MEDICAL CENTER

Issue Date: 2025-12-30

Checked: BH

Drawn: pd

VA Drawing Number: 2617

Building Number: 143

Drawing Number: P-701

VA FORM 08-6231

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