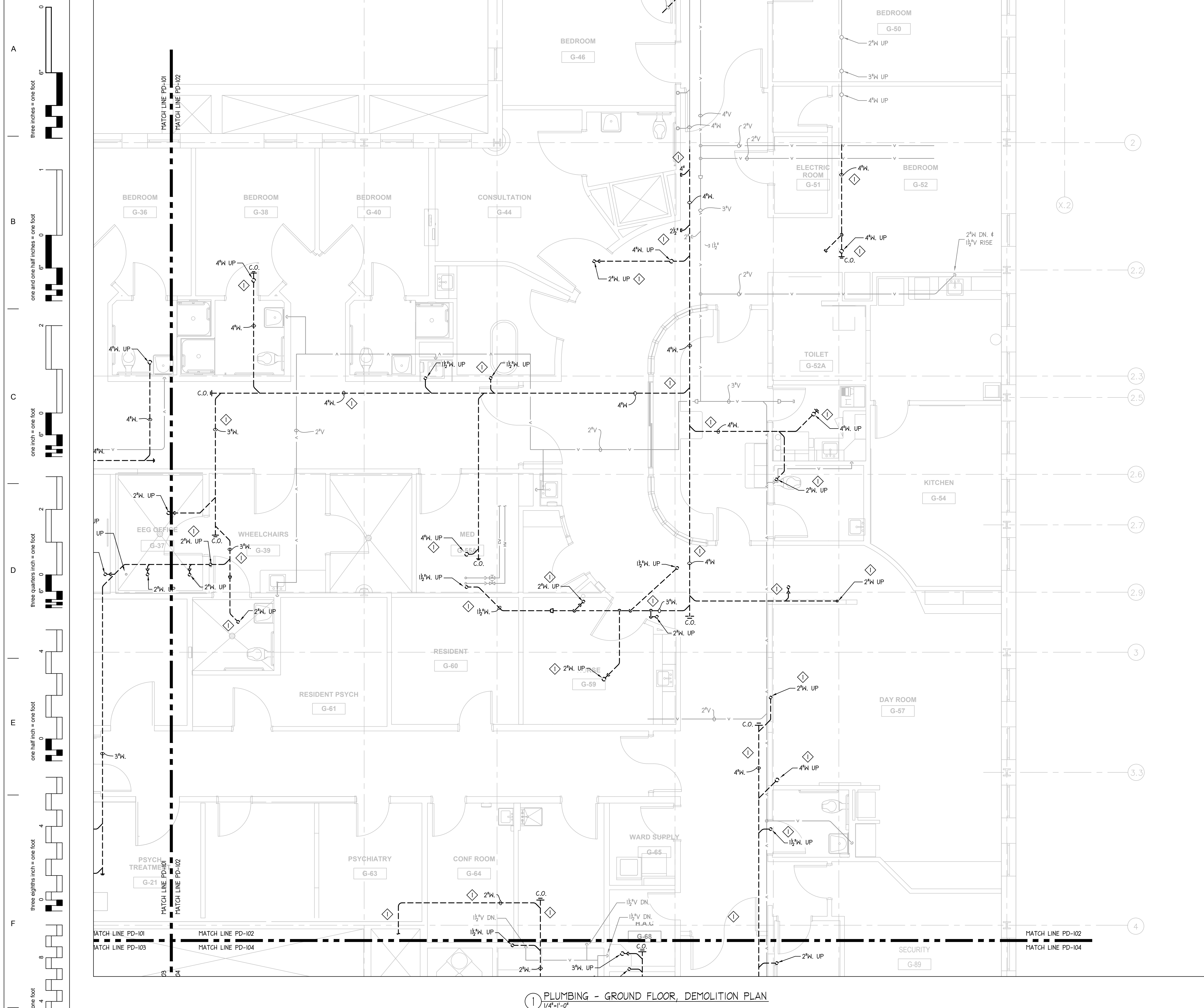


9



① PLUMBING - GROUND FLOOR, DEMOLITION PLAN
1/4" = 1'-0"

PLUMBING DEMOLITION LEGEND	
----	EXISTING PLUMBING TO BE DEMOLISHED
----	EXISTING PLUMBING TO REMAIN

◆ SPECIFIC PLUMBING DEMOLITION NOTES:

1. DEMOLISH AND REMOVE THE EXISTING SANITARY WASTE PIPING SERVING THE FIRST FLOOR LEVEL, AS INDICATED DASHED. THIS LINE IS LOCATED UNDER THE CEILING OF THE FIRST FLOOR. THE REMOVAL OF THIS PIPING WILL BE THE RESPONSIBILITY OF THE GENERAL MANAGER. COORDINATE WITH THE GENERAL TRADES CONTRACTOR TO PROVIDE CEILING REMOVAL AND RELOCATION OR PROTECTION OF EXISTING FURNISHING AS REQUIRED FOR WORK ACCESS. NOTE: GENERALLY ALL "PATIENT" ROOMS AND THE ASSOCIATED TOILET ROOMS ARE TO BE REMOVED. THE REMOVAL OF THE TOILET ROOMS WILL BE THE RESPONSIBILITY OF THE GENERAL MANAGER. ACCESS PANELS, CORRIDORS AND COMMON AREAS HAVE REGULAR OR "SECURE" SUSPENDED TYPE CEILINGS. ROOMS TO BE RESTORED AFTER EACH WORK SESSION. ASSUME LIMITED SECTIONS WILL BE AVAILABLE AT A TIME. FLUSH LINES WITH CLEAR WATER PRIOR TO THE START OF DEMOLITION. REMOVE THE EXISTING PIPING TO BE THROUGH THE ROOF. THE REMOVAL OF THE PIPING TO BE CUT AND PLACED IN COVERED TUBS FOR REMOVAL FROM THE BUILDING. SEPARATE METAL WASTES FROM OTHER DEBRIS AND RECYCLE.

2. REMOVE A SECTION OF EXISTING RAIN LEADER PIPING FROM THE LEVEL ABOVE TO THE TOP OF THE RISER. REMOVE A SECTION OF EXISTING RAIN LEADER PIPING FROM THE RISER TO THE POINT INDICATED. COORDINATE WITH LEVEL ONE WORK.



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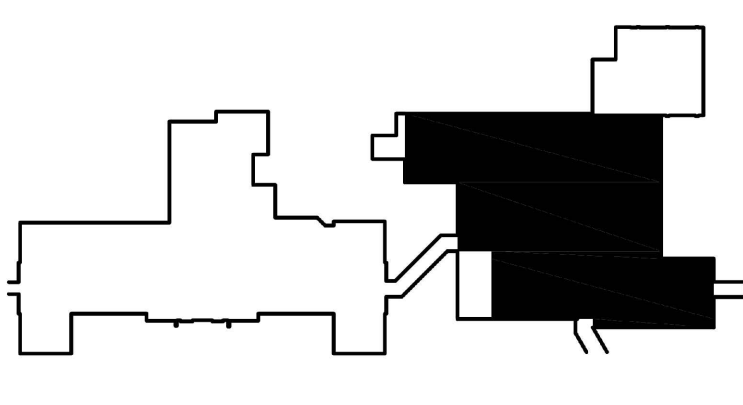
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ARCHITECT

 morriswitzer
ENVIRONMENTS
FOR HEALTH
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Williston, VT 05495

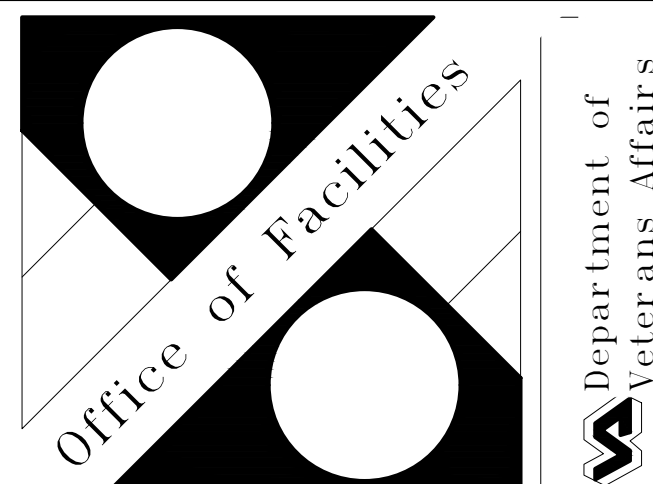
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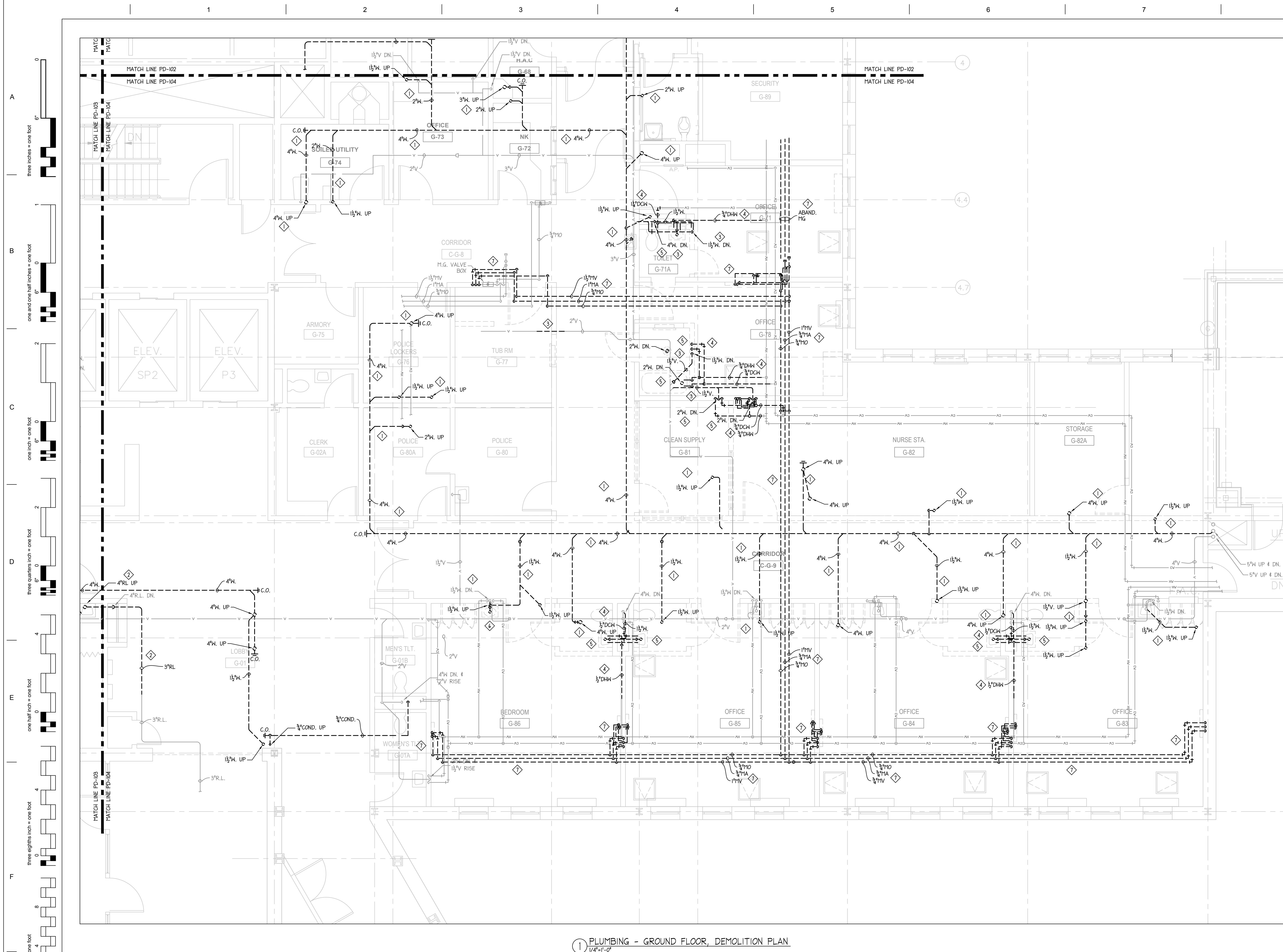


Drawing Title
PLUMBING - GROUND FLOOR DEMOLITION PLAN
Approved By: L.N.C.
Approved By: L.N.C.
Approved By: L.N.C.

Project Title	
INPATIENT WARD RENOVATION	
Building #	Scale
31	1/4"=1'-0"
Location	
VAMC - WHITE RIVER JUNCTION	

Date
9/30/2022
VA Project No.
405-13-104
Drawing No.
31-PD-102





① PLUMBING - GROUND FLOOR, DEMOLITION PLAN

PLUMBING DEMOLITION LEGEND	
---	EXISTING PLUMBING TO BE DEMOLISHED
	EXISTING PLUMBING TO REMAIN

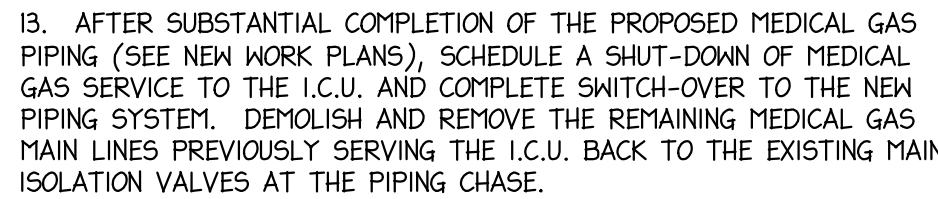
◆ SPECIFIC PLUMBING DEMOLITION NOTES:

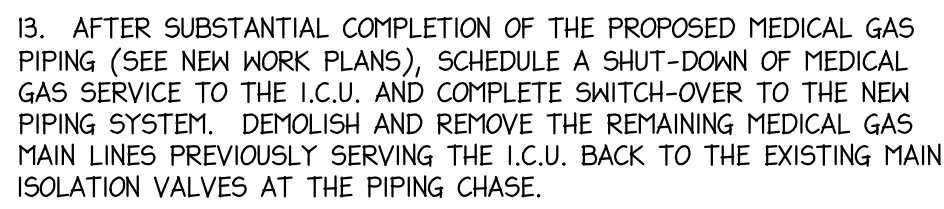
1. DENSOLISH AND REMOVE THE EXISTING SANITARY WASTE PIPING SERVING THE FIRST FLOOR LEVEL, AS INDICATED DASHED. GENERALLY ALL PIPING IS LOCATED WITHIN THE CEILING SPACE OF THE FIRST FLOOR. EXAMINE ALL RISERS THROUGH THE PROJECT TO DETERMINE. COORDINATE WITH THE GENERAL TRADING CONTRACTOR TO PROVIDE CEILING REMOVE AND RELOCATION OR PROTECTION OF EXISTING FURNISHINGS AS REQUIRED FOR WORK ACCESS. NOTE: ALL TRAPWAYS, TRAP PIPING, AND TOILET ASSOCIATED TOILET ROOMS HAVE G/FLOOR DRAININGS AND ACCESS IS TO BE THROUGH ACCESS PANELS. CORRIDORS AND COMMON AREAS HAVE REGULAR TRAP PIPING. COORDINATE WITH THE GENERAL TRADING CONTRACTOR AFTER EACH WORK SESSION. ASSUME LIMITED SECTIONS WILL BE AVAILABLE AT A TIME. FLUSH LINES WITH CLEAR WATER PRIOR TO STARTING WORK. PROVIDE PROTECTIVE COVERINGS TO ALL RISERS FOR SUPPORT REMOVAL. PIPING TO BE CUT AND RE-ENDED IN COVERED TIES FOR REPAIR. FROM THE BUILDING. SEPARATE METAL WASTES FROM OTHER DEBRIS AND RECYCLE.
2. DENSOLISH AND REMOVE A SECTION OF EXISTING RAIN LEADER PIPING FROM THE LEVEL ABOVE TO THE TOP OF THE RISER. REMOVE A SECTION OF EXISTING RAIN LEADER PIPING FROM THE RISER TO THE POINT INDICATED. COORDINATE WITH LEVEL ONE WORK.
3. DENSOLISH AND REMOVE SECTIONS OF EXISTING SANITARY VENT PIPING SERVING FIXTURES ON THIS LEVEL. REMOVE PIPING FROM THE FIXTURE ROUGHING TO THE MAIN AND CAP.
4. DENSOLISH AND REMOVE DOMESTIC WATER BRANCH PIPING SERVING FIXTURES FROM THE MAIN TO THIS LEVEL. CUT AND CAP LINES AT THE MAINS OR AFTER THE ISOLATION VALVE. REMOVE PIPING TO FIXTURES OR ROUGHING.
5. DENSOLISH AND REMOVE EXISTING PLUMBING FIXTURES (WHERE EXISTING) AND ROUGHING SERVING FIXTURES AND CONCEALED IN WALLS FROM PREVIOUS FIXTURES. REMOVE SANITARY DRAIN PIPING TO BELOW FLOOR. REMOVE EXISTING PLUMBING TOILET VENT AND WATER SUPPLY PIPING TO CEILING SPACE AND BACK TO MAINS AS NOTED ABOVE.
6. REMOVE EXISTING PLUMBING FIXTURES INDICATED DASHED. FIXTURES ROUGHING TO MAIN, MODIFY AS REQUIRED UNDER NEW WORK.
7. DENSOLISH AND REMOVE THE EXISTING MEDICAL GAS OUTLETS SERVING AS INDICATED DASHED. ISOLATE LINES AT THE EXISTING VALVE BOX. REMOVE ROOM OUTLETS IN CONJUNCTION WITH CONSOLE DEVALUATION BY GENERAL TRADING. REMOVE ALL MEDICAL GAS PIPING TO BELOW FLOOR. REMOVE EXISTING MEDICAL GAS SECTIONS OF ABANDONED PIPING. RECYCLE ALL MATERIALS IN THE OWNER'S METAL RECLAIM BINS.

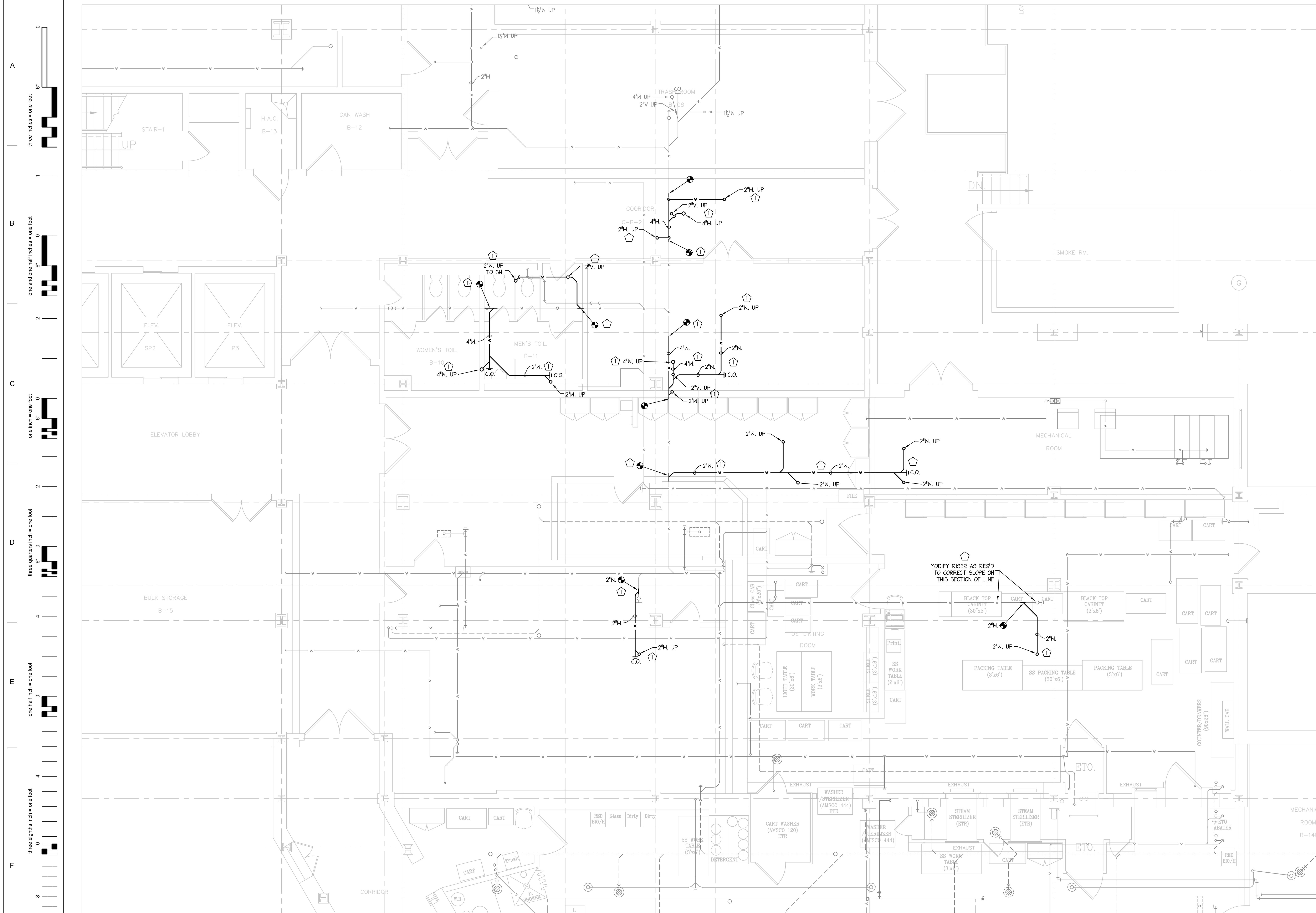


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① PLUMBING - BASEMENT FLOOR, DRAIN & VENT PIPING NEW WORK PLAN
1/4" = 1'-0"

PLUMBING NEW WORK LEGEND

	NEW PLUMBING TO BE FURNISHED AND INSTALLED
	EXISTING PLUMBING TO REMAIN


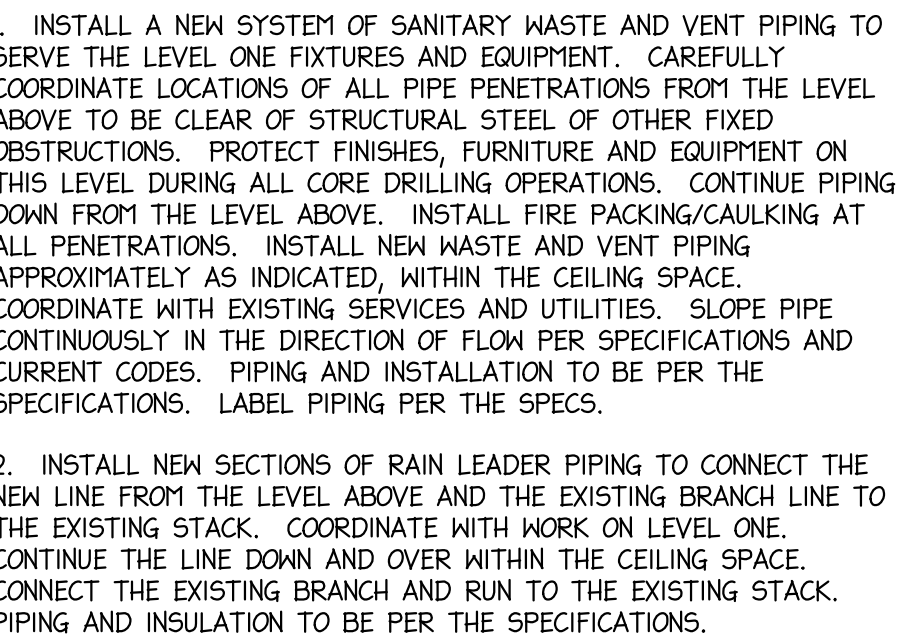
SPECIFIC PLUMBING NEW WORK NOTES:

1. INSTALL A NEW SYSTEM OF SANITARY WASTE AND VENT PIPING TO SERVE THE GROUND FLOOR LEVEL FIXTURES AND EQUIPMENT. CAREFULLY COORDINATE LOCATIONS OF ALL PIPE PENETRATIONS FROM THE LEVEL ABOVE TO BE CLEAR OF STRUCTURAL STEEL OF OTHER FIXED OBSTRUCTIONS. PROTECT FINISHES, FURNITURE AND EQUIPMENT ON THIS LEVEL DURING ALL CORE DRILLING OPERATIONS. CONTINUE PIPING DOWN FROM THE LEVEL ABOVE AND CONNECT TO EXISTING LINES. REPAIR AND PAINT CAVALRY AT ALL PIPE PENETRATIONS. INSTALL NEW WASTE AND VENT PIPING APPROXIMATELY INDICATED, WITHIN THE CEILING SPACE. COORDINATE WITH EXISTING SERVICES AND UTILITIES. SLOPE PIPE CONTINUOUSLY IN THE DIRECTION OF FLOW PER SPECIFICATIONS AND CURRENT CODES. PIPING AND INSTALLATION TO BE PER THE SPECIFICATIONS. LABEL PIPING PER THE SPECS.

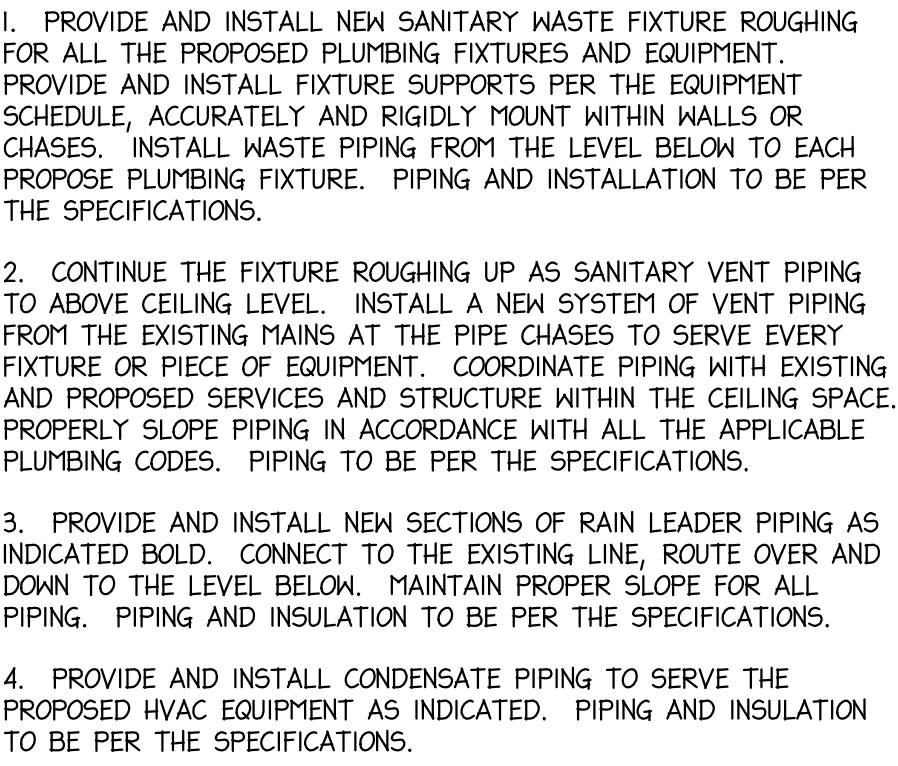


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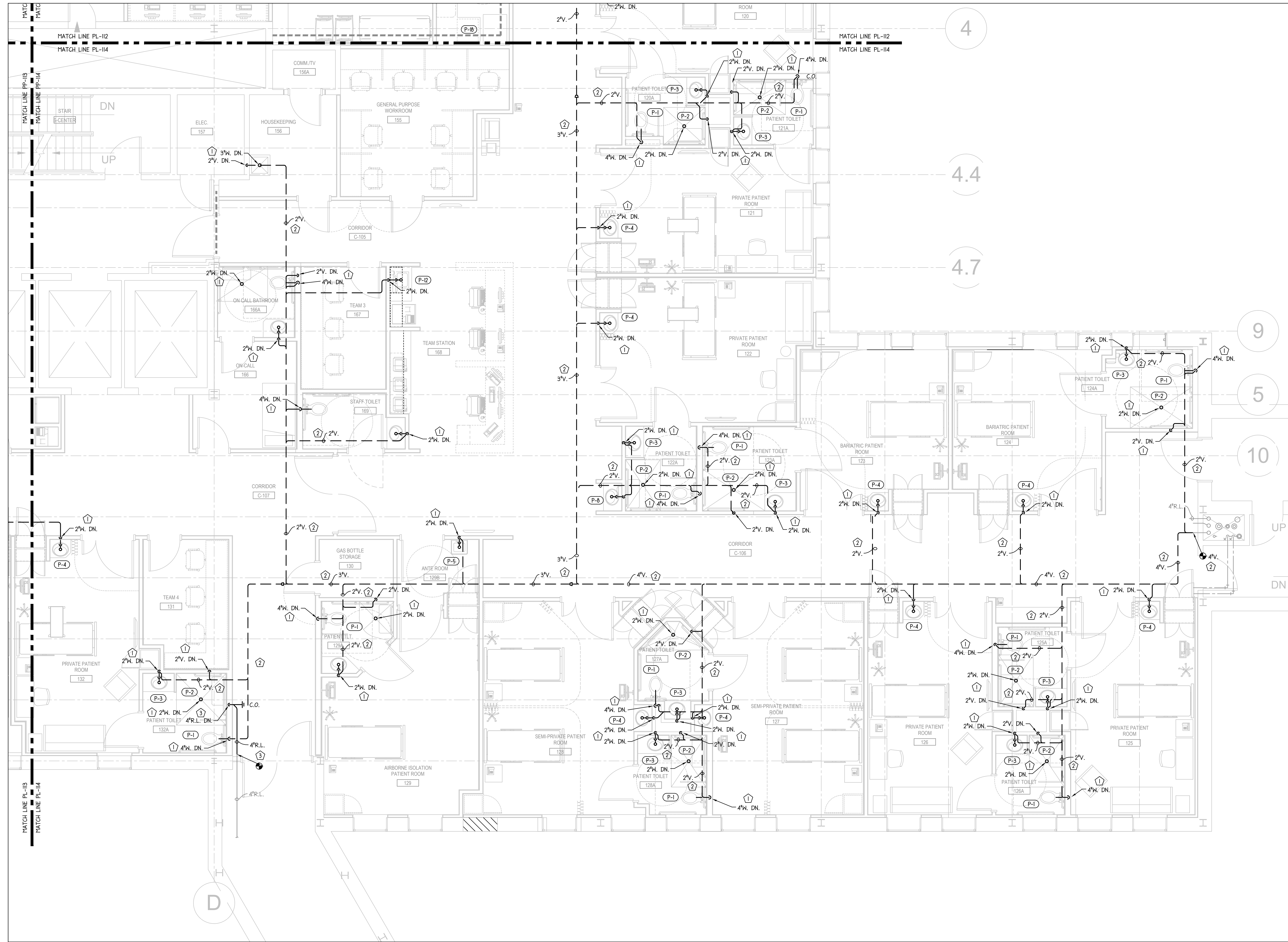
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Department of
Veterans Affairs



Department of
Veterans Affairs



PLUMBING NEW WORK LEGEND

————	NEW PLUMBING TO BE FURNISHED AND INSTALLED
————	EXISTING PLUMBING TO REMAIN

1. PROVIDE AND INSTALL NEW SANITARY WASTE FIXTURE ROUGHING FOR ALL THE PROPOSED PLUMBING FIXTURES AND EQUIPMENT. PROVIDE AND INSTALL FIXTURE SUPPORTS PER THE EQUIPMENT SCHEDULE, ACCURATELY AND RIGIDLY MOUNT WITHIN WALLS OR CHASES. INSTALL WASTE PIPING FROM THE LEVEL BELOW TO EACH PROPOSED PLUMBING FIXTURE. PIPING AND INSTALLATION TO BE PER THE SPECIFICATIONS.

2. CONTINUE THE FIXTURE ROUGHING UP AS SANITARY VENT PIPING TO ABOVE CEILING LEVEL. INSTALL A NEW SYSTEM OF VENT PIPING FROM THE EXISTING MAINS AT THE PIPE CHASES TO SERVE EVERY FIXTURE OR PIECE OF EQUIPMENT. COORDINATE PIPING WITH EXISTING AND PROPOSED SERVICES AND STRUCTURE WITHIN THE CEILING SPACE. PROPERLY SLOPE PIPING IN ACCORDANCE WITH ALL THE APPLICABLE PLUMBING CODES. PIPING TO BE PER THE SPECIFICATIONS.

3. PROVIDE AND INSTALL NEW SECTIONS OF RAIN LEADER PIPING AS INDICATED BOLD. CONNECT TO THE EXISTING LINE, ROUTE OVER AND DOWN TO THE LEVEL BELOW. MAINTAIN PROPER SLOPE FOR ALL PIPING. PIPING AND INSULATION TO BE PER THE SPECIFICATIONS.

[illegible]

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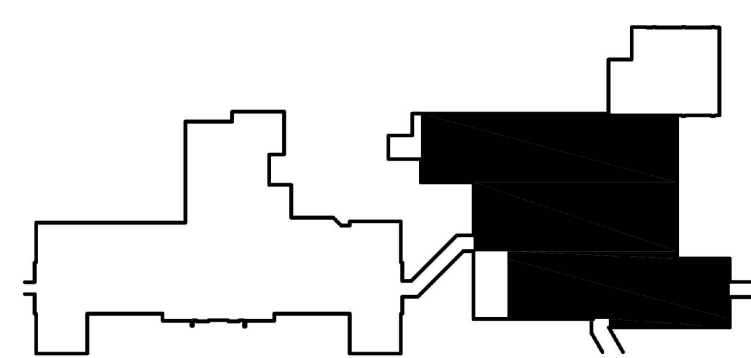
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KEY PLAN



Drawing Title
PLUMBING - FIRST FLOOR
DRAIN & VENT NEW WORK

Approved By: L.N.C.

Project Title
**INPATIENT WARD
RENOVATION**

Scale
1/4"=1'-0"

Location
VAMC - WHITE RIVER JUNCTION

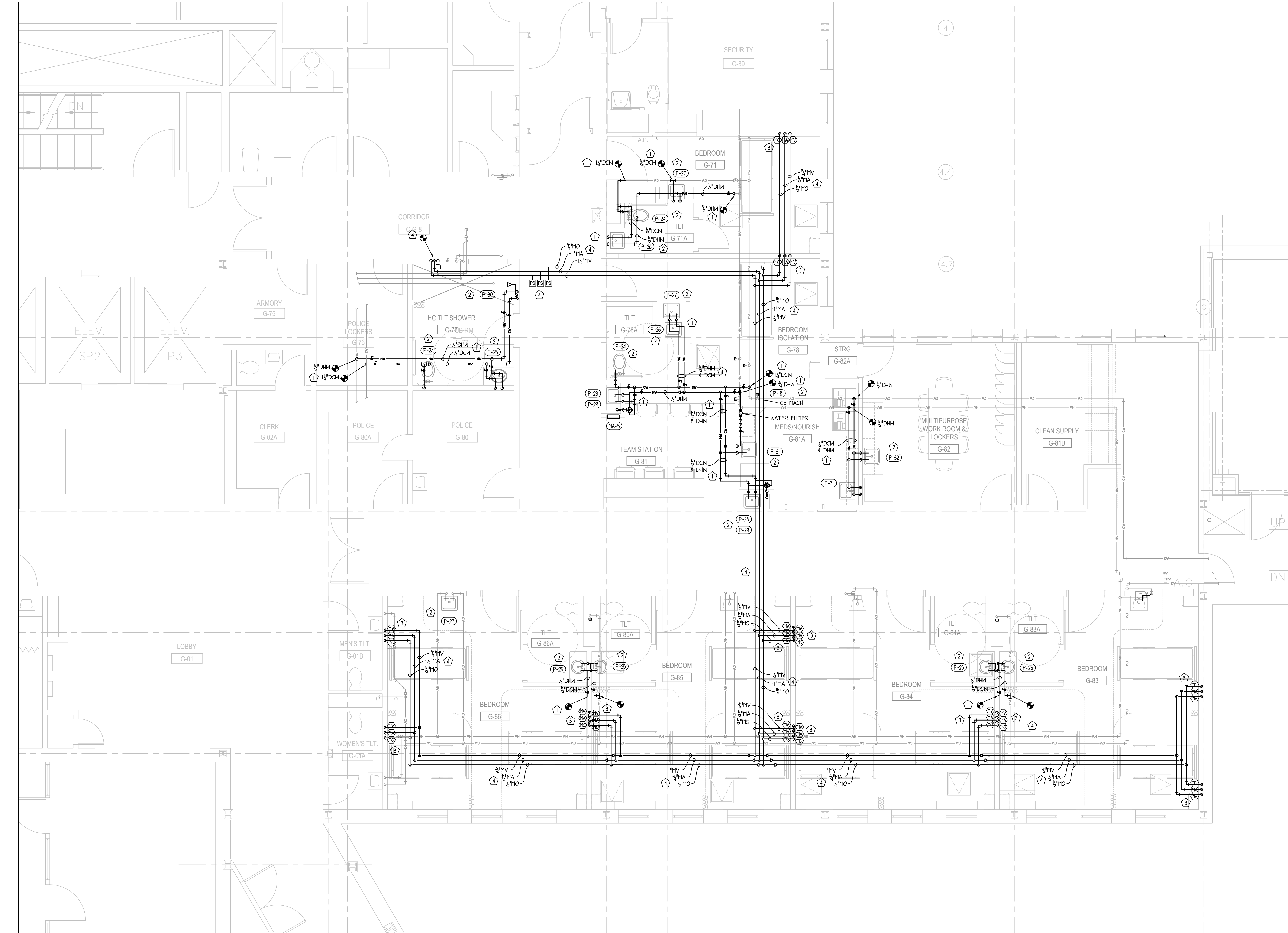

Date

VA Project No.
405-13-104

31-PL-114



Department of

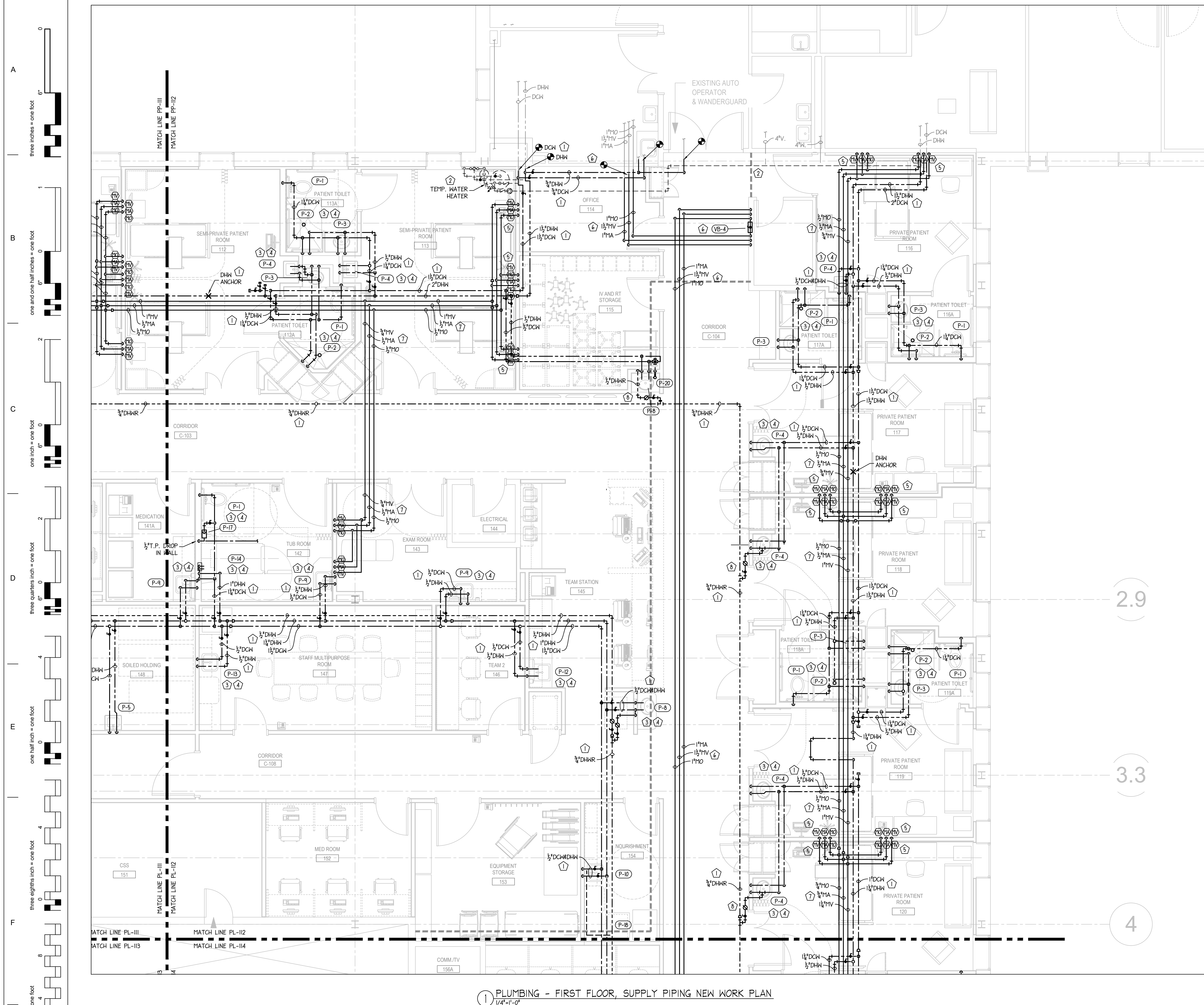
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KEY PLAN


Date	9/30/2022
VA Project No.	405-13-104
Drawing No.	31-PP-101



Department of
Veterans Affairs
Office of Facilities



① PLUMBING - FIRST FLOOR, SUPPLY PIPING NEW WORK PLAN
1/4" = 1'-0"

PLUMBING NEW WORK LEGEND	
	NEW PLUMBING TO BE FURNISHED AND INSTALLED
	EXISTING PLUMBING TO REMAIN

 SPECIFIC PLUMBING NEW WORK NOTES:

1. PROVIDE AND INSTALL A COMPLETE NEW SYSTEM OF DOMESTIC COLD, HOT AND RECIRCULATION WATER PIPING TO SERVE ALL OF THE PROPOSED PLUMBING FIXTURES AND EQUIPMENT ON THIS LEVEL. CONNECT TO EXISTING HOT AND COLD WATER SYSTEMS. INSTALL NEW DISTRIBUTION MAINS AND BRANCH PIPING AS INDICATED. INSTALL EXPANSION LOOPS AND ANCHOR ON THE HOT WATER AND RECIRCULATION LINES WHERE INDICATED. INSTALL ISOLATION VALVES ON ALL BRANCHES TO THE VALVE BOXES. PROVIDE SLOPE AND RE-CIRCULATION BRANCH. MAINS TO BE GROUNDED AND SUPPORTED WITH "TRAPEZE" TYPE HANGERS. PROVIDE LOW POINT DRAINS AND HIGH POINT VENTS. PIPING, VALVES AND INSULATION TO BE PER THE SPECIFICATIONS.
2. AFTER SUBSTANTIAL COMPLETION OF THE NEW DOMESTIC WATER SYSTEM AND AFTER THE SYSTEM IS SERVICEABLE, REMOVE THE TEMPORARY DOMESTIC HOT WATER AND RE-CIRCULATION PUMP AND MAKE FINAL CONNECTIONS. SCHEDULE A SHUT-DOWN OF DOMESTIC HOT WATER TO THE I.C.U. DISCONNECT TEMPORARY SERVICES AND RECONNECT TO THE I.C.U. VALVE BOX. PROVIDE SLOPE TO THE PIPING AND EQUIPMENT. RETURN TO OWNER OR DISPOSE OF PER THEIR DIRECTION.
3. PROVIDE AND INSTALL DOMESTIC WATER ROUGHING TO ALL PROPOSED FIXTURES AND EQUIPMENT. CONTINUE BRANCH PIPING DOWN, CONCEALED IN WALLS OR CHASES. REVIEW ALL FIXTURE REQUIREMENTS AND ACCURATELY SET AND RIGIDLY MOUNT ALL ROUGHING.
4. PROVIDE AND INSTALL NEW PLUMBING FIXTURES AND EQUIPMENT AS INDICATED, SEE FIXTURE AND EQUIPMENT SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS. PROVIDE PLUMBING INFORMATION. PROVIDE FIXTURES COMPLETE WITH ALL TRIM AND ACCESSORIES AS SCHEDULED AND AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION. PROVIDE SLOPE, DRAINAGE AND FLUSH TO BUILDING FINISHES. CAULK AND SEAL ALL JOINTS.
5. PROVIDE AND INSTALL NEW MEDICAL GAS OUTLETS FOR EVERY PATIENT ROOM, EMT ROOM AND OTHER LOCATIONS AS INDICATED, SEE EQUIPMENT SCHEDULES. LOCATE AND MOUNT OUTLETS PER THE ARCHITECTURAL HEADWALL DETAILS AND ELEVATIONS. PROVIDE OUTLETS COMPLETE WITH MOUNTING BOXES, TRIM AND LABELS.
6. PROVIDE AND INSTALL A COMPLETE NEW SYSTEM OF MEDICAL VACUUM, OXYGEN AND AIR PIPING MAINS FROM THE EXISTING MAIN TO BRANCH TO THE VALVE BOXES. PROVIDE SLOPE AND RE-CIRCULATION MAINS FROM THE EXISTING LINES NEAR THE PIPING CHASE, CONNECT TO OR INSTALL NEW ISOLATION VALVES AS INDICATED. RUN PIPING TO EACH VALVE BOX LOCATION. PRIORITIZE PIPING TO THE I.C.U. VALVE BOX (V.B.). PROVIDE ISOLATION VALVES ON ALL BRANCHES TO THE VALVE BOXES AND OTHER LOCATIONS WHERE INDICATED. PROVIDE THE SERVICES OF A MEDICAL GAS SERVICE COMPANY TO TEST AND CERTIFY THE NEW PIPING. PERFORM THIS WORK IN CONJUNCTION WITH SWITCH AND WIRE VALVE BOXES AND RE-CERTIFICATION OF THE I.C.U. DISTRIBUTION PIPING AND OUTLETS. PIPING, VALVES AND INSTALLATION TO BE PER THE SPECIFICATIONS. LABEL PIPING PER THE SPECIFICATIONS AND NFPA 99.
7. PROVIDE AND INSTALL NEW MEDICAL GAS VALVE BOXES FOR EACH PROPOSED ZONE, SEE EQUIPMENT SCHEDULES. MOUNT BOXES RECESSED IN WALLS OR CHASES. PROVIDE SLOPE AND RE-CIRCULATION CONNECTIONS FROM THE MAIN DISTRIBUTION SYSTEM. INSTALL ZONE DISTRIBUTION PIPING FROM THE VALVE BOX TO EACH MEDICAL GAS OUTLET. INSTALL PRESSURE SENSORS FOR EACH GAS SERVICE ON THE CHASE. PROVIDE SLOPE AND RE-CIRCULATION CONNECTIONS TO EACH LOCATION. COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR NINING CONNECTIONS. MINIMUM PIPING DROPS TO OUTLETS TO BE 3/4" FOR MEDICAL VACUUM AND 1/2" FOR MEDICAL OXYGEN AND AIR. RACK MEDICAL GAS EQUIPMENT WITH THE ELECTRICAL MATERIALS. PROVIDE PIPING TO BE PER THE SPECIFICATIONS. LABEL PIPING PER THE SPECIFICATIONS AND NFPA 99. PROVIDE THE SERVICES OF A MEDICAL GAS SERVICE COMPANY TO TEST AND CERTIFY THE NEW PIPING SYSTEMS AND ZONES.
8. PROVIDE THE SERVICES OF A TESTING AND BALANCE CONTRACTOR TO HEADWALL OXYGEN AND BALANCE THE RE-CIRCULATION BRANCH LINE. REVIEW RE-CIRCULATION PUMP OPERATING SPEED (BASEMENT LINE) WITH THE OWNER, INCREASE SPEED IF REQUIRED. BALANCE EACH UR-BRANCH RE-CIRCULATION LINE TO 0.5 GPM. BALANCE EACH END OF EACH RE-CIRCULATION LINE TO 1.5 GPM. PROVIDE ALL WORK PER THE SPECIFICATIONS.



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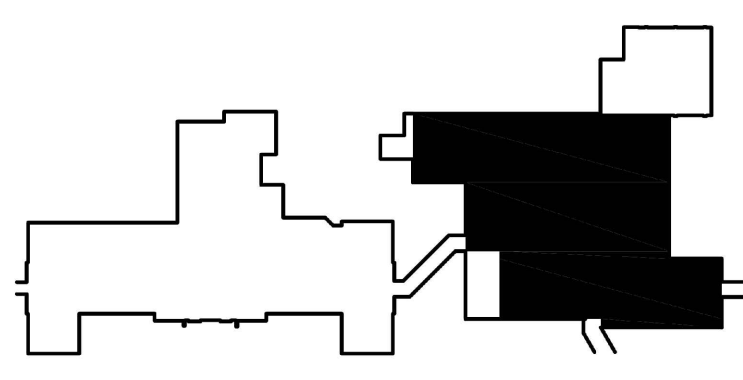
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KEY PLAN



Drawing Title
PLUMBING - FIRST FLOOR SUPPLY, NEW WORK PLAN
Approved By: L.N.C.
Approved By: L.N.C.
Approved By: L.N.C.

Project Title	
INPATIENT WARD RENOVATION	
Building #	Scale
31	1/4" = 1'
Location	
VAMC - WHITE RIVER JUN	

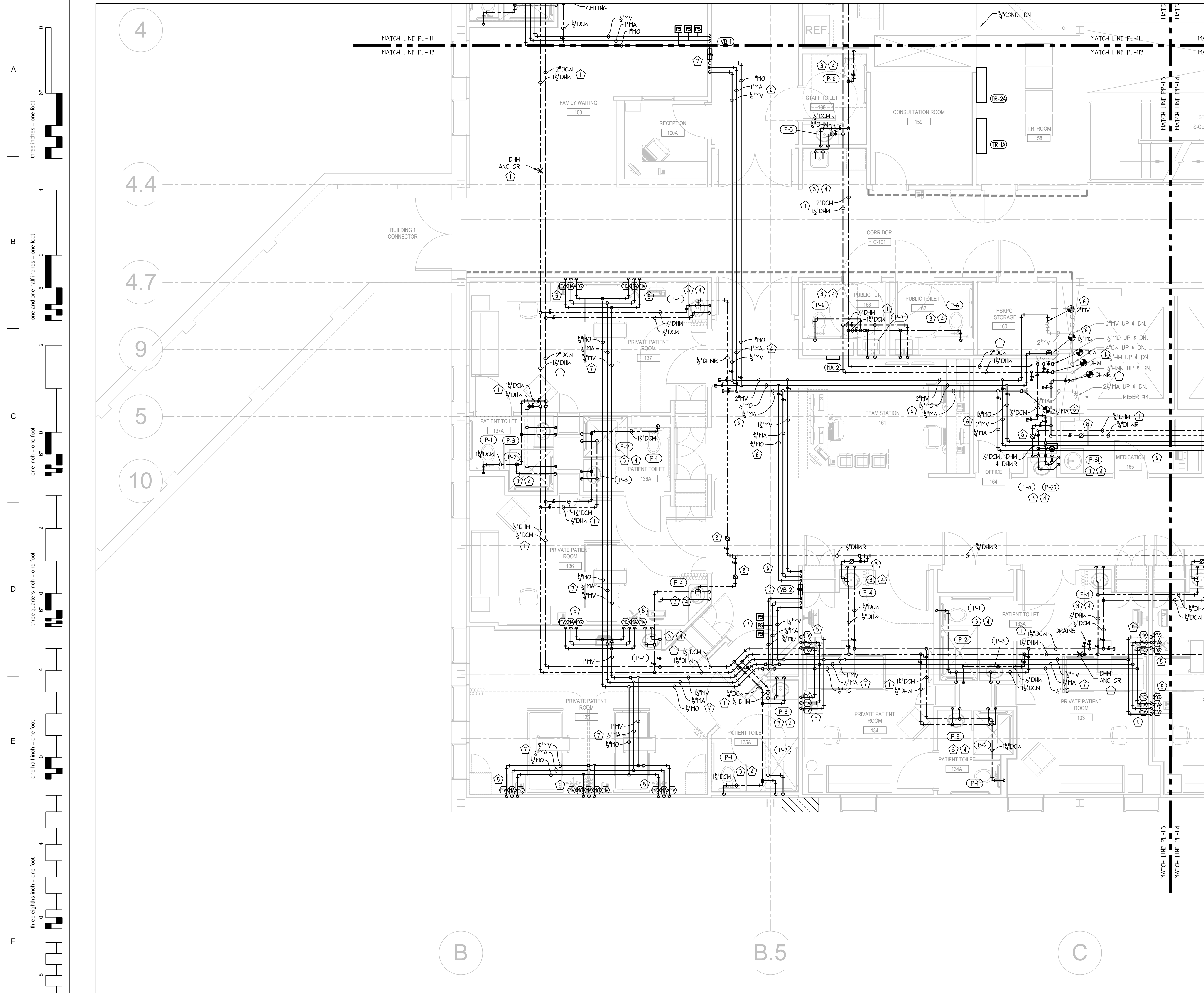
Date
9/30/2022


VA Project No.
405-13-104

Drawing No.
31-PP-1



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PLUMBING NEW WORK LEGEND	
	NEW PLUMBING TO BE FURNISHED AND INSTALLED
	EXISTING PLUMBING TO REMAIN

SPECIFIC PLUMBING NEW WORK NOTES

1. PROVIDE AND INSTALL A COMPLETE NEW SYSTEM OF DOMESTIC COLD, HOT AND RECIRCULATING WATER PIPING TO SERVE ALL OF THE PROPOSED BRANCHES. BRANCH PIPING SHALL BE INSTALLED TO CONNECT TO EXISTING MAINS AT THE EXISTING PIPING CHANGES. INSTALL NEW DISTRIBUTION MAINS AND BRANCH PIPING AS INDICATED BELOW. INSTALL EXPANSION LOOPS AND ANCHOR ON THE HOT WATER AND RECIRCULATING LINES. PROVIDE BALANCE VALVES ON THE MAINS, VALVES ON ALL BRANCH PIPING. INSTALL BALANCE VALVES ON EVERY RECIRCULATION BRANCH. MAINS TO BE GROUPED AND SUPPORTED WITH "TRAPEZOID" TYPE HANGERS. PROVIDE LOW POINT DRAINS AND HIGH POINT VENTS. PIPING, VALVES AND INSULATION TO BE PER THE SPECIFICATIONS.
2. AFTER SUBSTANTIAL COMPLETION OF THE NEW DOMESTIC WATER SYSTEM AND AFTER THE SYSTEM IS SERVICEABLE, REMOVE THE TEMPORARY DOMESTIC HOT WATER AND RECIRCULATION PUMP AND MAKE FINAL CONNECTIONS. SCHEDULE A SHUT-DOWN OF DOMESTIC HOT WATER TO THE I.C.U. VALVE BOX TO PROPOSED PIPING. REMOVE THE PUMP AND CONNECT NEW AND PUT INTO SERVICE. REMOVE THE TEMPORARY PIPING AND EQUIPMENT. RETURN TO OWNER OR DISPOSE OF PER THEIR DIRECTION.
3. PROVIDE AND INSTALL DOMESTIC WATER ROUGHING TO ALL PROPOSED FIXTURES AND EQUIPMENT. CONTINUE BRANCH PIPING DOWN, THROUGH WALLS OR FLOORS. REVIEW ALL NEW REQUIREMENTS AND ACCURATELY SET RIGIDLY MOUNTED ROUGHING.
4. PROVIDE AND INSTALL NEW PLUMBING FIXTURES AND EQUIPMENT AS INDICATED. PROVIDE ARCHITECTURAL SCHEDULES. INSTALL NEW ARCHITECTURAL DRAWINGS FOR SPECIFIC FIXTURE LOCATION INFORMATION. PROVIDE FIXTURES COMPLETE WITH ALL TRIM AND ACCESSORIES AS SCHEDULED AND AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION. PROVIDE SINKS, TUBS AND FLUSH TO BUILDING FINISHES. CAULK AND SEAL FIXTURES.
5. PROVIDE AND INSTALL NEW MEDICAL GAS OUTLETS FOR EVERY PATIENT ROOM, EXAM ROOM AND OTHER LOCATIONS AS INDICATED, SEE EQUIPMENT SCHEDULES. LOCATE MOUNT OUTLETS PER THE ARCHITECTURAL HEADWALL DETAILS AND ELEVATIONS. PROVIDE OUTLETS COMPLETE WITH MOUNTING BOXES, TRIM AND LABELS.
6. PROVIDE AND INSTALL A COMPLETE NEW SYSTEM OF MEDICAL VACUUM, OXYGEN AND AIR PIPING MAINS FROM THE EXISTING MAINS TO BRANCH TO THE NEW PIPING. BRANCH PIPING TO BE INSTALLED FROM THE EXISTING LINES NEAR THE PIPING CHARGE, CONNECT TO OR INSTALL NEW ISOLATION VALVES AS INDICATED. RUN PIPING TO EACH BRANCH BOX LOCATION. PRIORITIZE PIPING TO THE I.C.U. VALVE BOX (VB-Y-4). PROVIDE ISOLATION VALVES ON ALL BRANCHES TO THE VALVE BOXES AND OTHER LOCATIONS WHERE INDICATED. PROVIDE THE SERVICES OF A MEDICAL GAS SERVICE COMPANY TO TEST AND CERTIFY THE MEDICAL GAS PIPING. PROVIDE THE SERVICES OF A MEDICAL GAS OVER OF THE I.C.U. VALVE BOX (VB-Y-4) TO THE NEW PIPING SYSTEM AND RE-CERTIFICATION OF THE I.C.U. DISTRIBUTION PIPING AND OUTLETS. PIPING, VALVES AND INSTALLATION TO BE PER THE SPECIFICATIONS. LABEL PIPING PER THE SPECIFICATIONS AND NFPA 99.
7. PROVIDE AND INSTALL NEW MEDICAL GAS VALVE BOXES FOR EACH PROPOSED ZONE. SEE EQUIPMENT SCHEDULES. MOUNT BOXES RECESSED INTO WALLS OR PARTIALLY RECESSED INTO WALLS AS INDICATED. MAKE CONNECTIONS FROM THE MAIN DISTRIBUTION SYSTEM. INSTALL ZONE DISTRIBUTION PIPING FROM THE VALVE BOX TO EACH MEDICAL GAS LOCATION. PROVIDE MEDICAL GAS PIPING TO BE PER THE SPECIFICATIONS. COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR WIRING CONNECTIONS. MINIMUM PIPING DROPS TO OUTLETS TO BE 3/4" FOR EACH BRANCH AND 1/2" FOR MAINS. PROVIDE MEDICAL GAS PIPING WITH DOMESTIC WATER MAIN LINES WHERE FEASIBLE. PIPING TO BE PER THE SPECIFICATIONS. LABEL PIPING PER THE SPECIFICATIONS AND NFPA 99. PROVIDE THE SERVICES OF A MEDICAL GAS SERVICE COMPANY TO TEST AND CERTIFY THE NEW PIPING SYSTEMS AND ZONES.
8. PROVIDE THE SERVICES OF TESTING AND BALANCE CONTRACTOR TO MEASURE, ADJUST AND BALANCE EACH RE-CIRCULATION BRANCH LINE. REVIEW RE-CIRCULATION PUMP OPERATING SPEED (BASELINE LEVEL) WITH THE OWNER, INCREASE SPEED IF REQUIRED. BALANCE EACH RE-CIRCULATION PUMP TO 0.5 GPM PER SQUARE EACH END OF THE RE-CIRCULATION LINE TO 1/16 GPM. MAKE SURE ALL WORK PER THE SPECIFICATIONS.

① PLUMBING - FIRST FLOOR, SUPPLY PIPING NEW WORK PLAN
1/4" = 1' - 0"

[illegible]

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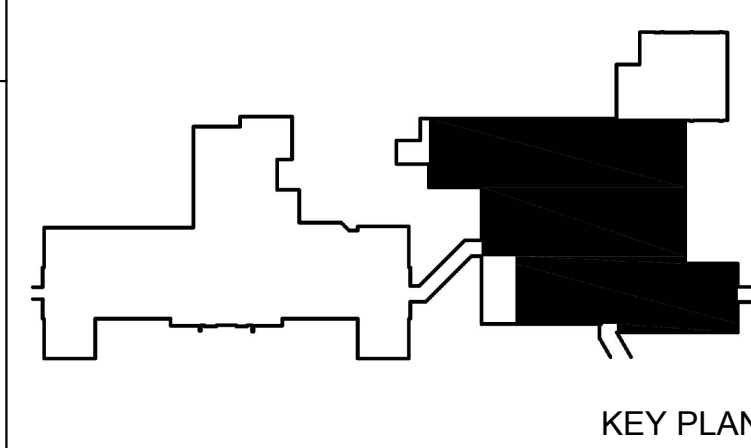
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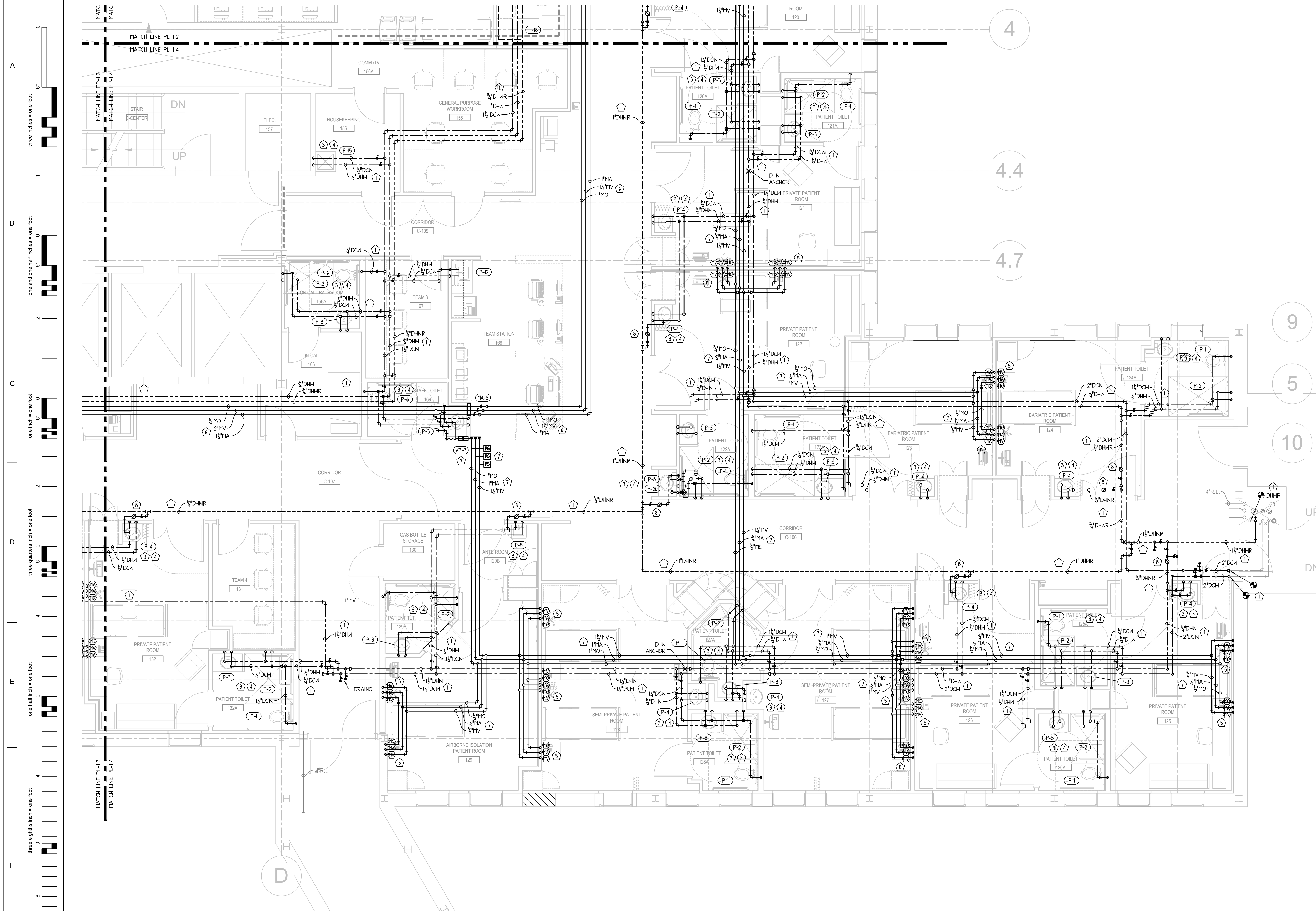


Drawing Title
PLUMBING - FIRST FLOOR SUPPLY, NEW WORK PLAN
Approved By: L.N.C.
Approved By: L.N.C.
Approved By: L.N.C.

Project Title	
INPATIENT WARD RENOVATION	
Building #	Scale
31	1/4" = 1'-0"
Location	
VAMC - WHITE RIVER JUNCTION	

Date	9/30/2022
VA Project No.	405-13-104
Drawing No.	31-PP-113





① PLUMBING - FIRST FLOOR, SUPPLY PIPING NEW WORK PLAN
1/4"=1'-0"




PLUMBING NEW WORK LEGEND	
	NEW PLUMBING TO BE FURNISHED AND INSTALLED
	EXISTING PLUMBING TO REMAIN

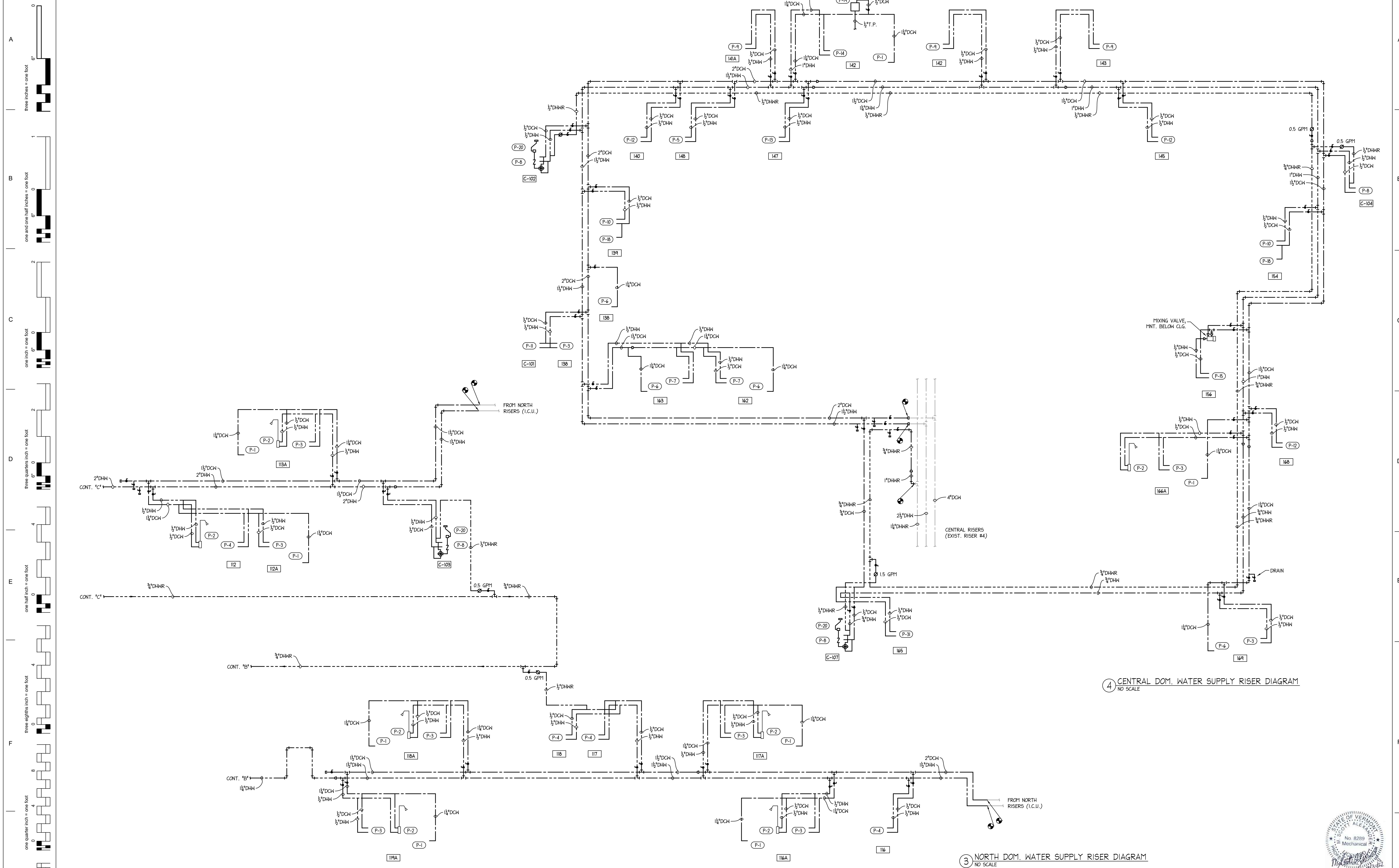
5 SPECIFIC PLUMBING NEW WORK NOTES:

1. PROVIDE AND INSTALL A COMPLETE NEW SYSTEM OF DOMESTIC COLD, HOT AND RECIRCULATING WATER PIPING TO SERVE ALL OF THE PROPOSED PLUMBING FIXTURES AND EQUIPMENT ON THIS LEVEL. CONNECT TO THE EXISTING MAINS AT THE MAIN DISTRIBUTION. INSTALL NEW DISTRIBUTION MAINS AND BRANCH PIPING AS INDICATED. INSTALL EXPANSION LOOPS AND ANCHOR ON THE HOT WATER AND RECIRCULATION LINES WHERE INDICATED. INSTALL ISOLATION VALVES PAIR BRANCH PIPING TO THE MAIN DISTRIBUTION SYSTEM. PROVIDE RECIRCULATION BRANCH, MAINS TO BE GROUPED AND SUPPORTED WITH "TRAPEZIE" TYPE HANGERS. PROVIDE LOW POINT DRAINS AND HIGH POINT AIR VENTS. PIPING, VALVES AND INSTALLATION TO BE PER THE SPECIFICATIONS.
2. AFTER SUBSTANTIAL COMPLETION OF THE NEW DOMESTIC WATER SYSTEM ENTER THE SYSTEM AND SERVICER REMOVE THE TEMPORARY DOMESTIC HOT HEATER AND RECIRCULATION PUMP AND MAKE FINAL CONNECTIONS. SCHEDULE A SHUT-DOWN OF DOMESTIC HOT WATER TO THE I.C.U. DISCONNECT TEMPORARY AND SERVICES AND CONNECT THE NEW DOMESTIC HOT WATER PIPING TO THE MAIN PIPING AND EQUIPMENT. RETURN TO OWNER OR DISPOSE OF PER THEIR DIRECTION.
3. PROVIDE AND INSTALL DOMESTIC WATER ROUGHING TO ALL PROPOSED FIXTURES AND EQUIPMENT. CONTINUE BRANCH PIPING DOWN, CONCEALED IN WALLS OR CHASES. REVIEW ALL FIXTURE REQUIREMENTS AND ACCURATELY SET AND RIGIDLY MOUNT ALL ROUGHING.
4. PROVIDE AND INSTALL NEW PLUMBING FIXTURES AND EQUIPMENT AS INDICATED, SEE FIXTURE AND EQUIPMENT SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS. PROVIDE ALL INFORMATION. PROVIDE FIXTURES COMPLETE WITH ALL TRIM AND ACCESSORIES AS SCHEDULED AND AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION. SET FIXTURE LEVEL AND FLUSH TO BUILDING FINISHES. CAULK AND SEAL FIXTURES AS INDICATED.
5. PROVIDE AND INSTALL NEW MEDICAL GAS OUTLETS FOR EVERY PATIENT ROOM. EXAMINANT ROOMS, SPECIALTIES ARE INDICATED, SEE EQUIPMENT SCHEDULES. LOCATE AND MOUNT OUTLETS PER THE ARCHITECTURAL HEADWALL DETAILS AND ELEVATIONS. PROVIDE OUTLETS COMPLETE WITH MOUNTING BOXES, TRIM AND LABELS.
6. PROVIDE AND INSTALL A COMPLETE NEW SYSTEM OF MEDICAL VACUUM, OXYGEN AND AIR PIPING MAINS FROM THE EXISTING MAIN BRANCH VALVES TO THE PROPOSED WORK AREA. PROVIDE NEW DISTRIBUTION MAINS FROM THE EXISTING LINES NEAR THE PIPING CHASE, CONNECT TO OR INSTALL NEW ISOLATION VALVES AS INDICATED. RUN PIPING TO EACH VALVE BOX LOCATION. PRIORITIZE PIPING TO THE I.C.U. VALVE BOX (VB-4). PROVIDE ISOLATION VALVES ON ALL BRANCHES TO THE VALVE BOXES AND OTHER LOCATIONS WHERE INDICATED. PROVIDE THE SERVICES OF A MEDICAL GAS SERVICE COMPANY TO TEST AND CERTIFY THE NEW PIPING. PERFORM THIS WORK IN CONJUNCTION WITH SWITCH OFF OF THE I.C.U. TO THE MAIN DISTRIBUTION SYSTEM. TEST SYSTEM AND RE-CERTIFICATION OF THE I.C.U. DISTRIBUTION PIPING AND OUTLETS. PIPING, VALVES AND INSTALLATION TO BE PER THE SPECIFICATIONS. LABEL PIPING PER THE SPECIFICATIONS AND NFPA 99.
7. PROVIDE AND INSTALL NEW MEDICAL GAS VALVE BOXES FOR EACH PROPOSED ZONE, SEE EQUIPMENT SCHEDULES. MOUNT BOXES RECESSED INTO WALLS APPLICABLE TO THE PIPING CHASE. PROVIDE ALL CONNECTIONS FROM THE MAIN DISTRIBUTION SYSTEM. INSTALL ZONE DISTRIBUTION PIPING FROM THE VALVE BOX TO EACH MEDICAL GAS OUTLET. INSTALL PRESSURE-SENSORS FOR EACH GAS SERVICE ON THE LEAD SIDE OF THE I.C.U. TO THE MAIN DISTRIBUTION SYSTEM. PROVIDE CONNECTION. COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR WIRING CONNECTIONS. MINIMUM PIPING DROPS TO OUTLETS TO BE 3/4" FOR MEDICAL VACUUM AND 1/2" FOR MEDICAL OXYGEN AND AIR. RACK MEDICAL GAS PIPING WITH DOMESTIC HOT WATER PIPING. PROVIDE PIPING TO BE PER THE SPECIFICATIONS. LABEL PIPING PER THE SPECIFICATIONS AND NFPA 99. PROVIDE THE SERVICES OF A MEDICAL GAS SERVICE COMPANY TO TEST AND CERTIFY THE NEW PIPING SYSTEMS AND ZONES.
8. PROVIDE THE SERVICES OF A TESTING AND BALANCE CONTRACTOR TO MEASURE, ADJUST AND BALANCE EACH RECIRCULATION BRANCH LINE. REVIEW RECIRCULATION PUMP OPERATING SPEED (BASELINE LEVEL) WITH THE OWNER, INCREASE SPEED IF REQUIRED. BALANCE EACH UB-BRANCH RECIRCULATION LINE TO 0.5 GPM. BALANCE EACH END OF MAIN RECIRCULATION LINE TO 1.5 GPM. PERFORM ALL WORK PER THE SPECIFICATIONS.



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			Hazardous Materials ATC Associates 171 Commerce Street Williston, VT 05495 802-862-1980		Structural Engineering Engineering Ventures 208 Flynn Avenue, Suite 2A Burlington, VT 05401 802-863-6225		Historic Preservation Suzanne Jamele 1 High Street Plainfield, VT 05667 802-454-7825		Interior Signage Design Creative Signage 9101 51st Place College Park, MD 20740 301-345-3700				KEY PLAN		Approved By: L.N.C.		Building # 31		Scale 1/4"=1'-0"		Drawing No. 31-PP-114			
Number Date Revision															Approved By: L.N.C.		Location VAMC - WHITE RIVER JUNCTION							



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GENERAL NEW WORK NOTES:

1. ALL PLUMBING SYSTEMS, EQUIPMENT, ETC., SHALL HAVE SEISMIC RESTRAINT DESIGNED, CERTIFIED AND INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS, SECTION #130541 AND THE STANDARDS REFERENCED THEREIN.

NOTES:

1. EACH WATER CLOSET INSTALLATION SHALL BE EQUIPPED WITH A WATER HAMMER ARRESTOR, "ZURN" SHOCKROLL SERIES 1700, SIZE #200, 3/4" (ONLY ONE REQUIRED WHERE FIXTURES ARE BACK TO BACK).
2. INSTALL CHECK VALVES ON ALL SHOWERS, POB SINKS, SCRUB SINKS AND ANY OTHER FIXTURES WITH RESTRICTED DISCHARGE OR SECONDARY FLOW CONTROL. CHECK VALVES TO BE SPRING LOADED TYPE.
3. INSTALL A WATER FILTER AT SINK P-14, TO BE EQUAL TO "AQUAPURE" #AP200 FILTER HOUSING & #AP217 CARTRIDGE INSTALLED IN THE BRANCH LINE TO THE WATER DISPENSER AND MOUNTED BELOW THE SINK IN THE CABINETS.

NOTES:
1. PROVIDE WITH LOAD SIDE PRESSURE GUAGES, #6-130111-00 FOR VAC., #6-130112-00 FOR AIR & OXY

NOTES:

1. PROVIDE GAS ALARM PANEL WITH FACTORY WIRED PANEL.
2. PRODUCTS SHALL BE BY "BEACON MEDAES" OR APPROVED EQUIVALENT.
3. PROVIDE LINE PRESSURE SENSORS, MOUNT ABOVE CEILING NEAR VAVLE BOX.
4. PANELS TO HAVE ANNUNCIATOR MODULE, AREA DISPLAY LOW PRESSURE MODULES, AREA DISPLAY VACUUM MODULE, BLANK MODULES.

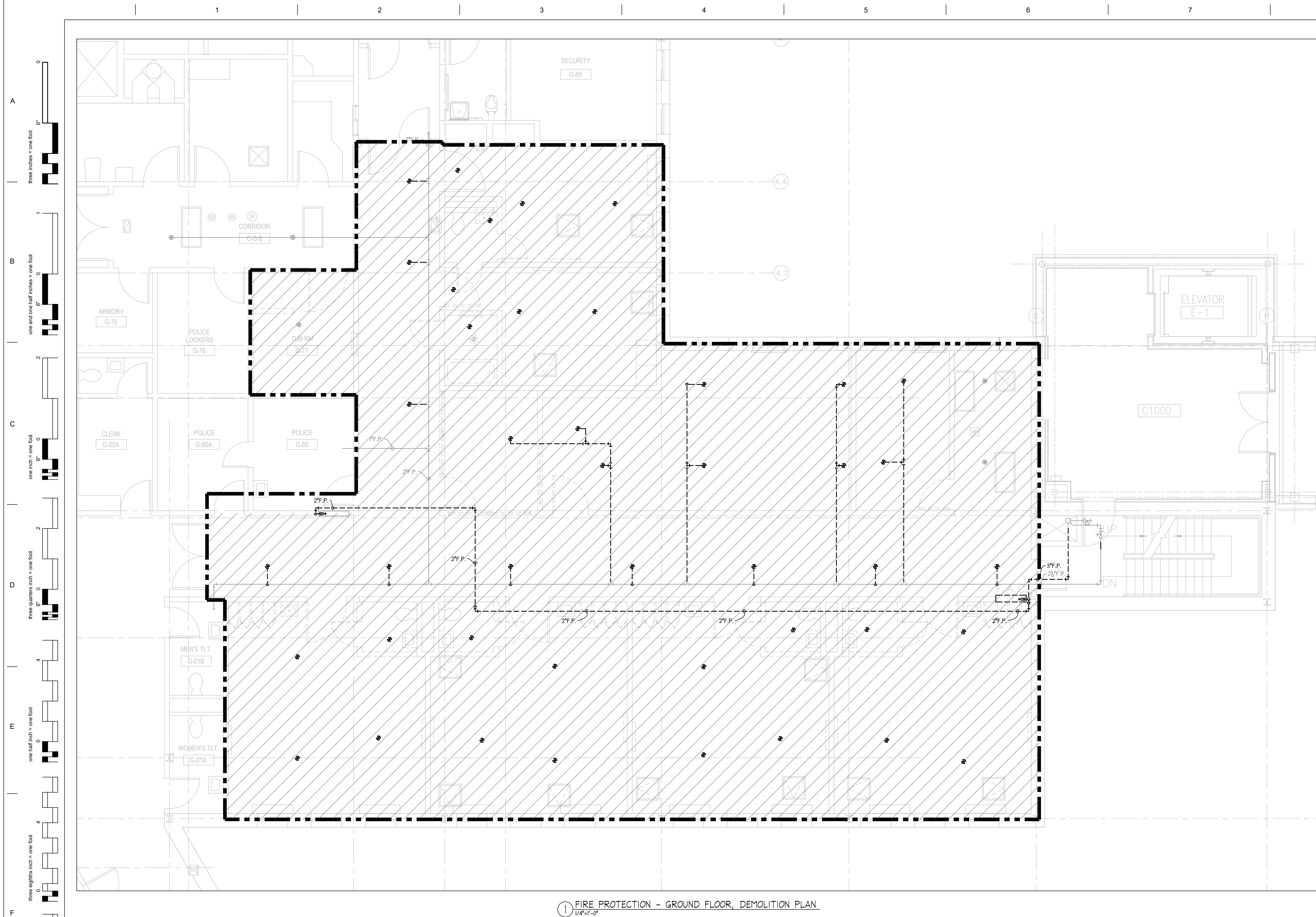
NOTES:


1. WHERE PREFABRICATED HEAD WALL ASSEMBLIES ARE INSTALLED MAKE CONNECTIONS TO UNIT PIPE STUBS, CERTIFY ENTIRE ASSEMBLY.
2. OUTLET STYLE SHALL BE SELECTED AND APPROVED BY THE HOSPITAL MEDICAL GAS SERVICES MANAGER AND USER GROUPS. PROVIDE SAMPLES OF EACH TYPE FOR REVIEW AND APPROVAL PRIOR TO ORDER OR PURCHASE OF EQUIPMENT.

Approved By: -

VAMC - WHITE RIVER JUNCTION





FIRE PROTECTION DEMOLITION GRAPHIC LEGEND	
HATCH PATTERN	DESCRIPTION
	DEMOLISH AND REMOVE ALL EXISTING SPRINKLER HEADS, FIRE PROTECTION PIPING AND HOSE CABINETS WITHIN THE CONSTRUCTION AREA.

FIRE PROTECTION DEMOLITION LEGEND	
-----	FIRE PROTECTION WORK TO BE DEMOLISHED
-----	EXISTING FIRE PROTECTION WORK TO REMAIN

◆ FIRE PROTECTION SPECIFIC DEMOLITION NOTES:

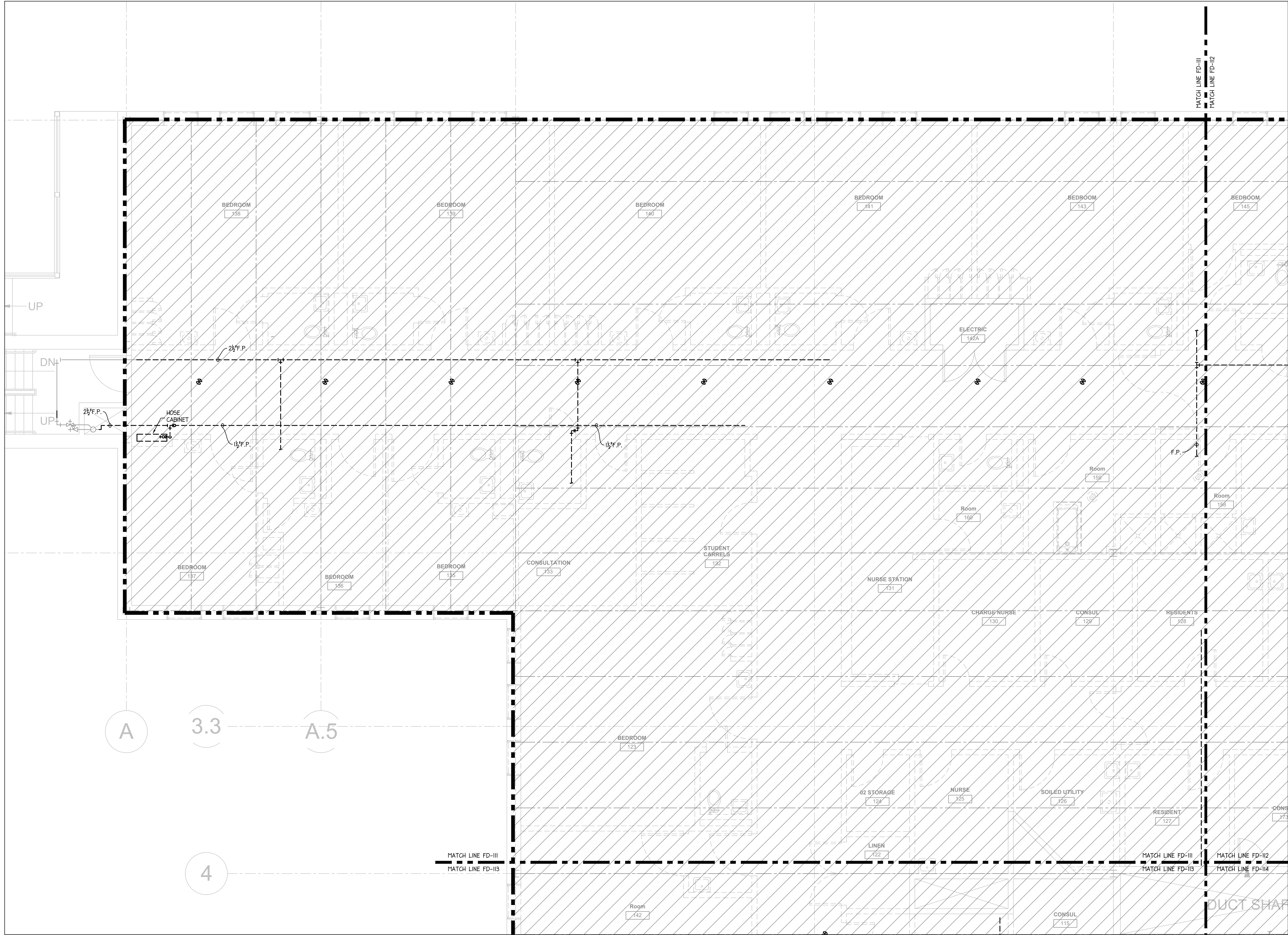
1. REMOVE THE EXISTING FIRE PROTECTION HOSE CABINETS. REMOVE THE STAND PIPE PIPING TO NEAR THE EXISTING STAND PIPE RISER, AS INDICATED AND CAP.
2. REMOVE ALL EXISTING SPRINKLER HEADS AND BRANCH PIPING BACK TO THE DISTRIBUTION LATERALS OR MAINS FOR ALL AREAS WITH PERMITTED ACoustICAL CEILINGS AND ALL TOILET/GROWER ROOMS WITHIN THE PROJECT AREA. TEMPORARILY CAP BRANCH LINES FOR REUSE/EXTENSION UNDER NEW WORK.
3. REMOVE ALL EXISTING SPRINKLER HEADS AND SECTIONS OF BRANCH PIPING IN ROOMS WHERE THE EXISTING DRYALARM CEILING IS TO REMAIN. TEMPORARILY CAP BRANCH LINES FOR REUSE/EXTENSION UNDER NEW WORK.
4. PROVIDE TEMPORARY FIRE PROTECTION IN CONSTRUCTION AREAS.


1 FIRE PROTECTION - GROUND FLOOR, DEMOLITION PLAN
1/4"=1'-0"



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FIRE PROTECTION DEMOLITION GRAPHIC LEGEND	
HATCH PATTERN	DESCRIPTION
	DEMOLISH AND REMOVE ALL EXISTING SPRINKLER HEADS, FIRE PROTECTION PIPING AND HOSE CABINETS WITHIN THE CONSTRUCTION AREA.

--- FIRE PROTECTION WORK TO BE DEMOLISHED
--- EXISTING FIRE PROTECTION WORK TO REMAIN

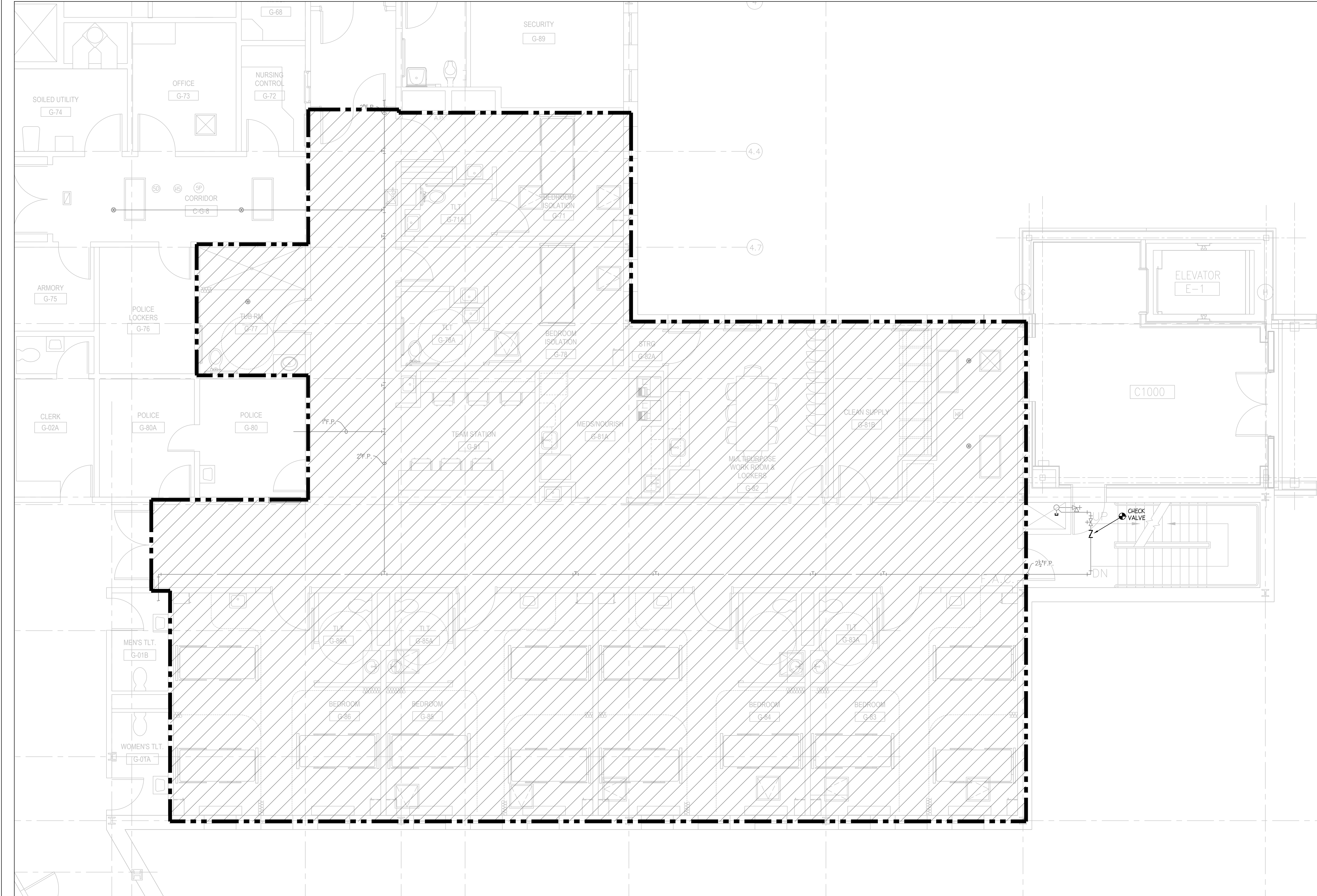
1. PROVIDE EARLY PHASE WORK TO MODIFY THE EXISTING FIRE PROTECTION TO PROVIDE FULL COVERAGE IN THE SECTION OF TEMPORARY CORRIDOR. UTILIZE EXISTING PIPING TO THE GREATEST EXTENT FEASIBLE. INSTALL NEW BRANCH PIPING AND SPRINKLER HEADS TO PROVIDE FULL COVERAGE OF THE SPACES FROM THE LOCAL DISTRIBUTION LATERALS. COVERAGE TO COMPLY WITH "LIGHT HAZARD" REQUIREMENTS, SEE NEW WORK PLANS. REMOVE PIPING AND SPRINKLER HEADS IN CONJUNCTION WITH DEMOLITION DURING THE RESPECTIVE PHASE WORK.

2. REMOVE ALL EXISTING SPRINKLER HEADS AND DISTRIBUTION PIPING THROUGHOUT THE CONSTRUCTION AREA IN SEQUENCE WITH CONSTRUCTION PHASING. REMOVE FIRE PROTECTION MAINS TO NEAR THE LIMITS OF CONSTRUCTION AND RETAIN FOR REUSE UNDER NEW WORK.
3. CAP THE DISTRIBUTION MAIN FROM THE I.C.U. AREA. THIS LINE WILL NOT BE REUSED TO SERVE ANY PORTION OF THE PROJECT SCIENCE AREAS.
4. CAP THE DISTRIBUTION MAIN FROM THE CENTRAL STAIR FIRE PROTECTION RISER. THIS RISER WILL ONLY SERVE THE STAIR ON THIS LEVEL AND NOT BE REUSED TO SERVE ANY PORTION OF THE PROJECT SCIENCE AREAS.
5. REMOVE THE EXISTING FIRE PROTECTION HOSE CABINETS. REMOVE THE STAND PIPE PIPING TO NEAR THE EXISTING STAND PIPE RISER OR THE LIMITS OF CONSTRUCTION, AS INDICATED, AND CAP.
6. PROVIDE TEMPORARY FIRE PROTECTION IN CONSTRUCTION AREAS.

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Department of Veterans Affairs

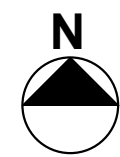
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Project Title <div style="font-size: 24pt; font-weight: bold; margin-top: 5px;">INPATIENT WARD RENOVATION</div>	
Building # <div style="font-size: 24pt; font-weight: bold; margin-top: 5px;">31</div>	Scale <div style="font-size: 24pt; font-weight: bold; margin-top: 5px;">1/4"=1'-0"</div>
Location <div style="font-size: 24pt; font-weight: bold; margin-top: 5px;">VAMC - WHITE RIVER JUNCTION</div>	



Department of
Veterans Affairs

FIRE PROTECTION NEW WORK LEGEND

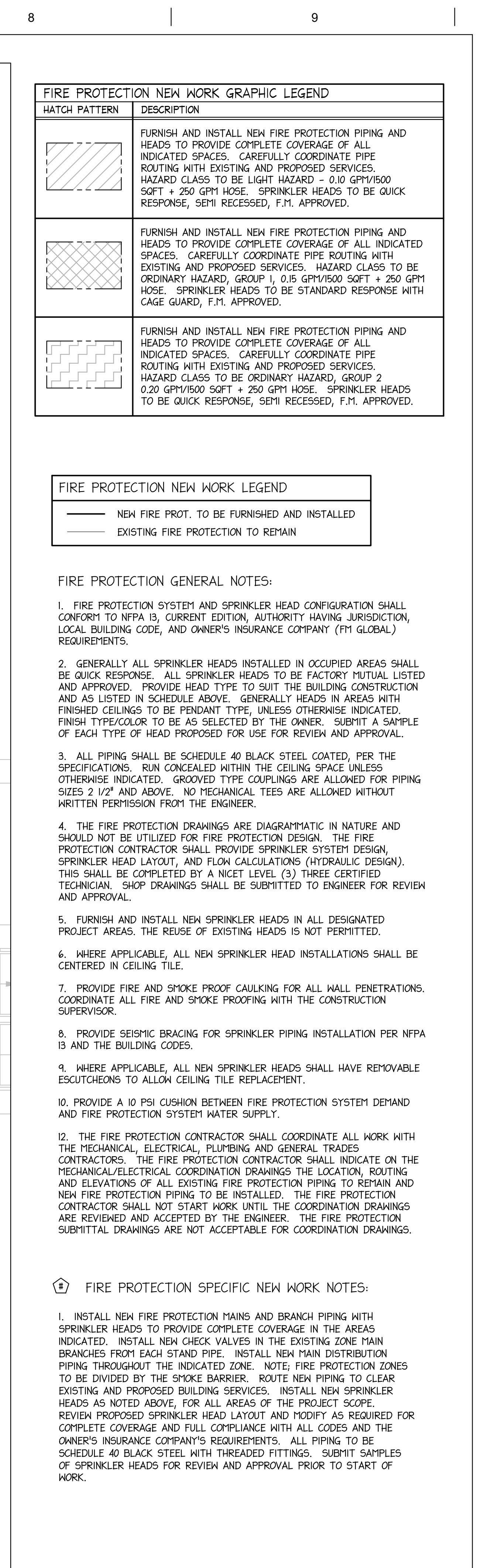
————	NEW FIRE PROT. TO BE FURNISHED AND INSTALLED
————	EXISTING FIRE PROTECTION TO REMAIN

FIRE PROTECTION GENERAL NOTES

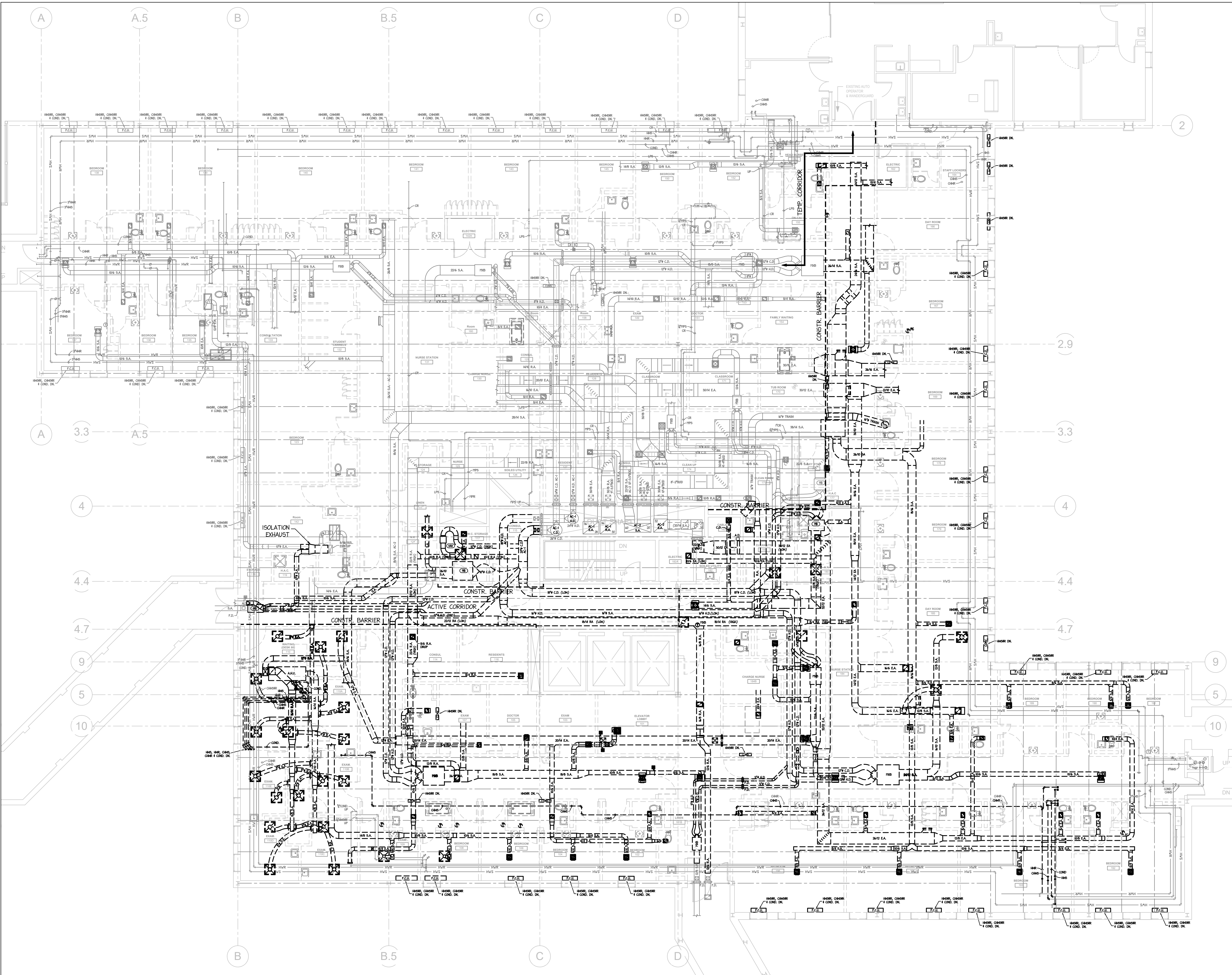
1. FIRE PROTECTION SYSTEM AND SPRINKLER HEAD CONFIGURATION SHALL CONFORM TO NFPA 13, CURRENT EDITION, AUTHORITY HAVING JURISDICTION, LOCAL BUILDING CODE, AND OWNER'S INSURANCE COMPANY (IF GLOBAL) REQUIREMENTS.
2. GENERALLY ALL SPRINKLER HEADS INSTALLED IN OCCUPIED AREAS SHALL BE OF THE GLASS GLOBE TYPE. SPRINKLER HEADS TO BE FACTORY PRELUBED AND APPROVED. PROVIDE HEAD TYPE TO SUIT THE BUILDING CONSTRUCTION AND AS LISTED IN SCHEDULE ABOVE. GENERALLY HEADS IN AREAS WITH FINISHED CEILINGS TO BE PENDANT TYPE, UNLESS OTHERWISE INDICATED. PROVIDE THE MECHANIC TO BE AS SELECTED BY THE OWNER. SUBMIT A SAMPLE OF EACH TYPE OF HEAD PROPOSED FOR USE FOR REVIEW AND APPROVAL.
3. ALL PIPING SHALL BE SCHEDULE 40 BLACK STEEL, COATED, PER THE SPECIFICATIONS, RUN CONCEALED WITHIN THE CEILING SPACE UNLESS OTHERWISE INDICATED. GROOVED TYPE COUPLINGS ARE ALLOWED FOR PIPING SIZES 1/2" AND ABOVE. NO MECHANICAL TEES ARE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
4. THE FIRE PROTECTION DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOULD NOT BE UTILIZED FOR FIRE PROTECTION DESIGN. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE SPRINKLER SYSTEM DESIGN, SPRINKLER HEAD LAYOUT, AND FLOW CALCULATIONS (HYDRAULIC DESIGN). THIS SHALL BE COMPLETED BY A NCEI LEVEL (3) CERTIFIED TECHNICIAN. ALL DRAWING SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL.
5. FURNISH AND INSTALL NEW SPRINKLER HEADS IN ALL DESIGNATED PROJECT AREAS. THE REUSE OF EXISTING HEADS IS NOT PERMITTED.
6. WHERE APPLICABLE, ALL NEW SPRINKLER HEAD INSTALLATIONS SHALL BE CENTERED IN CEILING TILE.
7. PROVIDE FIRE AND SMOKE PROOF CAULKING FOR ALL WALL PENETRATIONS. COORDINATE ALL FIRE AND SMOKE PROOFING WITH THE CONSTRUCTION SUPERVISOR.
8. PROVIDE A SLOTTED BRACING FOR SPRINKLER PIPING SUBSTITUTION PER NFPA 13 AND THE BUILDING CODES.
9. WHERE APPLICABLE, ALL NEW SPRINKLER HEADS SHALL HAVE REMOVABLE ESCUTCHEONS TO ALLOW CEILING TILE REPLACEMENT.
10. PROVIDE A 10 PSI CUSHION BETWEEN FIRE PROTECTION SYSTEM DEMAND AND FIRE PROTECTION SYSTEM WATER SUPPLY.
12. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE ALL WORK WITH THE MECHANICAL, ELECTRICAL, PLUMBING AND GENERAL TRADES CONTRACTORS. THE FIRE PROTECTION CONTRACTOR SHALL INDICATE ON THE MECHANICAL, ELECTRICAL, PLUMBING AND GENERAL TRADES, ROUTING AND ELEVATIONS OF ALL EXISTING FIRE PROTECTION PIPING TO REMAIN AND NEW FIRE PROTECTION PIPING TO BE INSTALLED. THE FIRE PROTECTION CONTRACTOR SHALL NOT START WORK UNTIL THE COORDINATION DRAWINGS HAVE BEEN REVIEWED AND ACCEPTED BY THE ENGINEER. THE FIRE PROTECTION SUBMITTAL DRAWINGS ARE NOT ACCEPTABLE FOR COORDINATION DRAWINGS.

 FIRE PROTECTION SPECIFIC NEW WORK NOTES:

1. INSTALL NEW FIRE PROTECTION MAINS AND BRANCH PIPING WITH SPRINKLER HEADS TO PROVIDE COMPLETE COVERAGE IN THE AREAS INDICATED. INSTALL NEW CHECK VALVES IN THE EXISTING ZONE MAIN BRANCHES FROM EACH STAND PIPE. INSTALL NEW MAIN DISTRIBUTION PIPING THROUGHOUT THE INDICATED ZONE. NOTE: FIRE PROTECTION ZONES TO BE DIVIDED BY THE SMOKE BARRIER. ROUTE NEW PIPING TO CLEAR EXISTING AND PROPOSED MECHANICAL EQUIPMENT. NEW SPRINKLER HEADS AS NOTED ABOVE, FOR ALL AREAS OF THE PROJECT SCOPE. REVIEW PROPOSED SPRINKLER HEAD LAYOUT AND MODIFY AS REQUIRED FOR COMPLETE COVERAGE AND FULL COMPLIANCE WITH ALL CODES AND THE OWNER'S INSURANCE COMPANY'S REQUIREMENTS. ALL PIPING TO BE SCHEDULE 40 BLACK STEEL WITH THREADED FITTINGS. SUBMIT SAMPLES OF SPRINKLER HEADS FOR REVIEW AND APPROVAL PRIOR TO START OF WORK.



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1 MECHANICAL - PHASING FIRST FLOOR DEMOLITION PLAN
1/8"=1'-0"

MECHANICAL DEMOLITION LEGEND	
---	MECHANICAL WORK TO BE DEMOLISHED
---	EXISTING MECHANICAL WORK TO REMAIN

MECHANICAL PHASING DEMOLITION NOTES:

- GENERAL NOTES:
- PROJECT PHASING ASSUMES THE SOUTHEAST SECTION OF THIS LEVEL WILL BE DEMOLISHED, RENOVATED FULLY READY FOR USE BY THE OWNER PRIOR TO START OF ANY WORK IN THE NORTHWEST SECTION. THE SOUTHWEST SECTION OF WORK IS IDENTIFIED AS "PHASE 2". THE NORTHWEST SECTION OF WORK IS IDENTIFIED AS "PHASE 3". PHASE 1 IS CONSTRUCTION OF THE "SMILING SPACE" ON THE GROUND FLOOR LEVEL.
 - THIS DRAWING ILLUSTRATES A CONCEPT TO ACCOMPLISH THE PHASE 2 WORK. THE ACTUAL METHODS OF ACCOMPLISHING THE PHASING ARE TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A PHASING PLAN LISTING ANY AND ALL IMPACTS TO SYSTEMS AND OPERATIONS. NOTE: DUE TO ON-GOING REVISIONS TO THE DRAWINGS THIS DRAWING MAY NOT EXACTLY MATCH THE MAIN DEMOLITION DRAWINGS. THIS DRAWING IS FOR PHASING CONCEPT AND SCOPE ONLY. THE MAIN MECHANICAL DRAWINGS SHALL BE UTILIZED FOR ALL OTHER SCOPE.
 - A CONSTRUCTION BARRIER IS REQUIRED BETWEEN THE CONSTRUCTION AREA AND OCCUPIED SPACES, THIS DRAWING INDICATES A POTENTIAL LOCATION FOR THAT BARRIER.
 - THIS CONCEPT PROPOSES TO UTILIZE THE PREVIOUS ON-CALL RM 156 AND HEAD NURSE RM 156 FOR A TEMPORARY CORRIDOR TO MAINTAIN ACCESS TO THE I.C.U. AREA.
 - SECTIONS OF THE CORRIDOR BETWEEN THE ELEVATORS AND THE LINK TO BUILDING H1 MUST REMAIN IN USE. CONTRACTOR TO DEVELOP A PLAN/METHOD TO ACCOMPLISH THE DEMOLITION AND NEW WORK IN THESE SPACES.
- MECHANICAL DEMOLITION NOTES:
- COMPLETE DEMOLITION OF ALL SYSTEMS WITHIN THE PHASE 2 BOUNDARIES AS INDICATED ON THIS PLAN. COORDINATE WITH THE PROJECT MANAGER FOR ACCESS INTO OCCUPIED SPACES WHERE WORK IS INDICATED BEYOND THE CONSTRUCTION BARRIER.
 - SEE FIRST FLOOR LEVEL DEMOLITION DRAWINGS FOR MORE DETAILED DESCRIPTIONS OF THE DEMOLITION WORK. ADDITIONAL SCOPE SPECIFIC TO SEQUENCING IS INDICATED ON THIS DRAWING.
 - CAP ALL ACTIVE DUCTS NEAR THE CONSTRUCTION BARRIER.
 - GENERALLY ZONES OR DUCTS TAKEN OUT OF SERVICE BY THE DEMOLITION OF THIS PHASE SHALL REMAIN OUT OF SERVICE EXCEPT AS NOTED TO BE TEMPORARILY RE-FED UNDER THE PHASING NEW WORK PLAN. SCHEDULE AND SEQUENCE WORK TO MINIMIZE DOWN TIME OF THESE SYSTEMS.
 - WORK ON THE "ISOLATION EXHAUST" DUCTWORK MUST ACCOMPLISHED WITH A LIMITED OUT OF SERVICE DURATION. PREPARE ALL MATERIALS IN ADVANCE OF WORK AND SCHEDULE A SHUT-DOWN THROUGH THE PROJECT MANAGER.

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

0 4 8 16

one eighth inch = one foot

0 4 8

one quarter inch = one foot

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one half inch = one foot

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three eighths inch = one foot

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one inch = one foot

0 4 8

one and one half inch = one foot

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two inch = one foot

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three inch = one foot

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four inch = one foot

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five inch = one foot

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six inch = one foot

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seven inch = one foot

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eight inch = one foot

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nine inch = one foot

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ten inch = one foot

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eleven inch = one foot

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twelve inch = one foot

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thirteen inch = one foot

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sixty six inch = one foot

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sixty seven inch = one foot

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sixty eight inch = one foot

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sixty nine inch = one foot

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seventy inch = one foot

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seventy one inch = one foot

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seventy two inch = one foot

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seventy three inch = one foot

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seventy four inch = one foot

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seventy five inch = one foot

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seventy six inch = one foot

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seventy seven inch = one foot

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seventy eight inch = one foot

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seventy nine inch = one foot

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eighty inch = one foot

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eighty one inch = one foot

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eighty two inch = one foot

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eighty three inch = one foot

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eighty four inch = one foot

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eighty five inch = one foot

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eighty six inch = one foot

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eighty seven inch = one foot

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eighty eight inch = one foot

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eighty nine inch = one foot

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ninety inch = one foot

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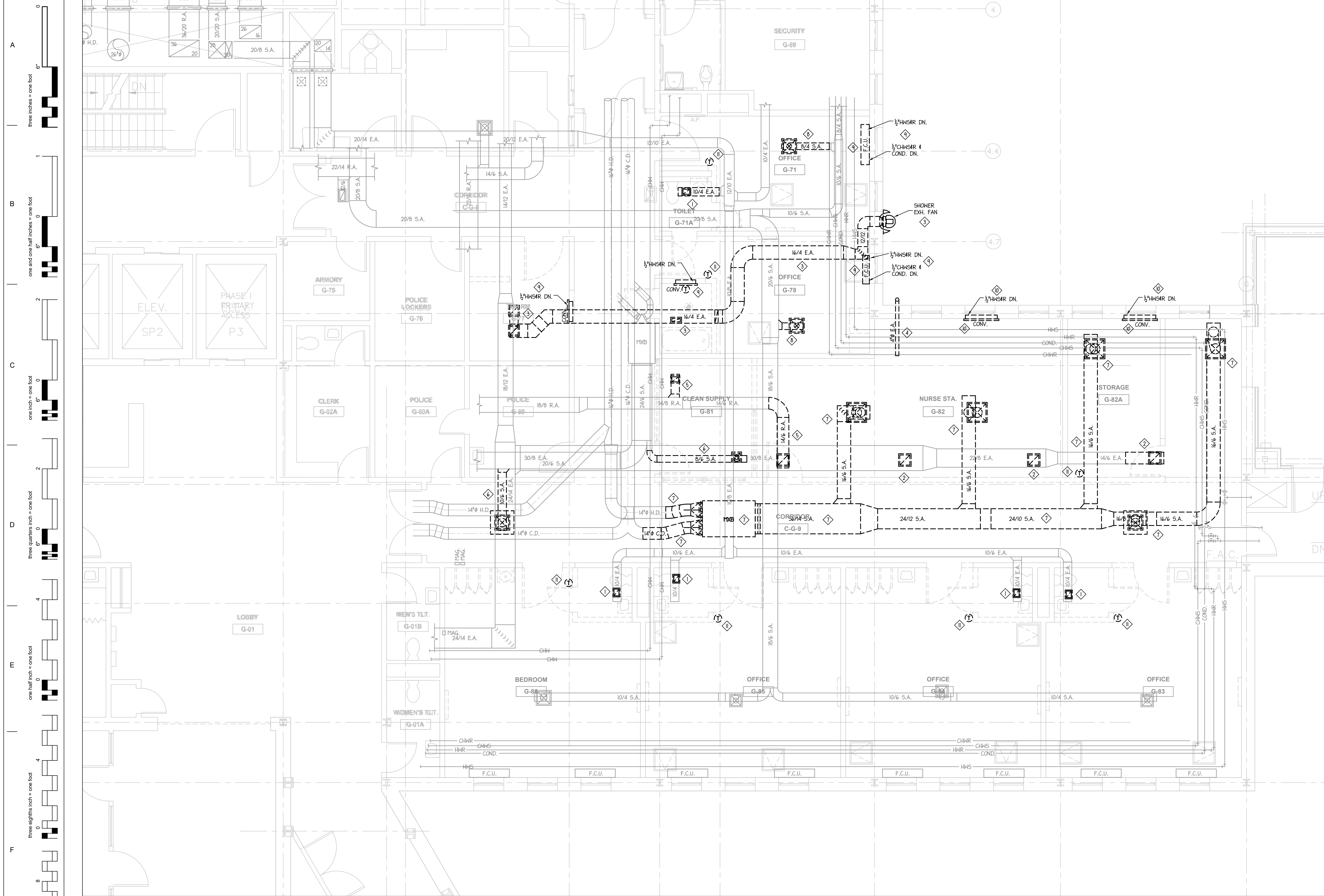
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MECHANICAL DEMOLITION LEGEND	
-----	MECHANICAL WORK TO BE DEMOLISHED
—————	EXISTING MECHANICAL WORK TO REMAIN

- MECHANICAL SPECIFIC DEMOLITION NOTES:
1. DEMOLISH AND REMOVE THE EXISTING TOILET EXHAUST GRILLES AND DROP DUCTWORK TO THE BRANCH DUCTS. TEMPORARILY PATCH AND SEAL DUCTS, COORDINATE WITH NEW WORK. REMOVE SECTIONS OF DUCTWORK WHERE INDICATED AND CAP DUCT.
 2. DEMOLISH AND REMOVE THE EXISTING GRILLES AND THE END SECTION OF DUCT FROM THE GENERAL EXHAUST SYSTEM. CAP AND SEAL ALL OPENINGS.
 3. DEMOLISH AND REMOVE THE EXISTING DASHED SHOWER ROOM EXHAUST SYSTEM. COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR DISCONNECTION OF POWER TO THE EXHAUST FAN. REMOVE ALL GRILLES AND DUCT WORK. REMOVE THE EXHAUST FAN. RETURN TO OWNER OR DISPOSE OF PER THEIR DETECTION. NOTE: SECTIONS OF DUCT WORK ARE ABOVE GYP. BOARD CEILINGS TO REPAIR. NOTE: SIGHTING, PLANNING, ETC. AS REQUIRED TO COMPLETE WORK.
 4. DEMOLISH AND REMOVE AN ABANDONED SECTION OF EXHAUST DUCTWORK. COORDINATE WITH THE GENERAL TRADES CONTRACTOR TO PATCH EXTERIOR FINISHES.
 5. DEMOLISH AND REMOVE THE EXISTING RETURN AIR GRILLES AND SECTIONS OF DUCT WORK AS INDICATED DASHED. PATCH AND SEAL AT MAIN DUCT.
 6. DEMOLISH AND REMOVE THE EXISTING SUPPLY AIR DIFFUSERS AND SECTIONS OF BRANCH DUCTWORK AS INDICATED DASHED. PATCH AND SEAL AT MAIN DUCT.
 7. DEMOLISH AND REMOVE THE EXISTING MIXING BOX ZONE INDICATED DASHED. REMOVE SECTIONS OF HOT AND COLD DUCK SUPPLY DUCT WORK APPROXIMATELY 10 FEET FROM THE POINTS TO THE DASHED. CAP AND SEAL THE HOT AND COLD TEMPORARILY CAP THE COLD DUCK. REMOVE THE MIXING BOX. REMOVE ALL DISTRIBUTION DUCTWORK AND DIFFUSERS.
 8. REMOVE SECTIONS OF EXISTING SUPPLY AIR DUCTWORK AND DIFFUSERS AS INDICATED DASHED. CAP AND SEAL DUCTS NEAR MAIN.
 9. DEMOLISH AND REMOVE THE EXISTING FAN COIL UNITS INDICATED DASHED. COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR DISCONNECTION OF POWER. REMOVE HEATING WATER, CHILLED WATER AND CONDENSATE PIPING CONNECTIONS TO THE FAN COILS. REMOVE THE FAN COILS. REMOVE THE HOT AND COLD CAP AFTER THE ISOLATION VALVES OR NEAR THE MAIN. COORDINATE WITH THE GENERAL TRADES CONTRACTOR TO PATCH FLOOR PENETRATIONS.
 10. DEMOLISH AND REMOVE THE EXISTING CONNECTOR UNITS INDICATED DASHED. REMOVE HEATING WATER PIPING CONNECTIONS AND BRANCH PIPING TO NEAR THE MAINS ON THE LEVEL BELOW. CAP AFTER THE ISOLATION VALVES OR NEAR THE MAINS.
- II. PROVIDE THE SERVICES OF A CONTROLS CONTRACTOR TO REMOVE AND DEMOLISH THE EXISTING CONTROLS FOR ALL SYSTEMS AFFECTED BY DEMOLITION WORK. REMOVE THE ROOM SENSORS AND CABLEING FOR ALL ROOMS WITH EXISTING FAN COIL UNITS TO REMAIN (WITHIN PROJECT SCOPE). SALVAGE FOR REUSE UNDER NEW WORK. REMOVE THE CONTROLS FOR THE FAN COIL AND MIXING BOX. REMOVE THE CONTROLS FOR THE EXHAUST FAN. REMOVE CONTROL AIR TUBING BACK TO THE LAST ACTIVE POINT AND CAP.



Issued for Bidding, Permitting & Construction

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**Mechanical, Plumbing &
Electrical Engineering**
L.N. Consulting
69 Union St
Winooski, VT 05404
802-655-1753

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ATC Associates
171 Commerce Street
Williston, VT 05495
802-862-1980

Construction Cost Estimating & Scheduling
VIS Construction Consultants
595 Dorset Street, Suite #5
South Burlington, VT 05403
802-658-6100

Structural Engineering
Engineering Ventures
208 Flynn Avenue, Suite 2A
Burlington, VT 05401
802-863-6225

Commissioning Services
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110 Main Street
Burlington, VT 05401
802-861-2715

Historic Preservation
Suzanne Jamele
1 High Street
Plainfield, VT 05667
802-454-7825

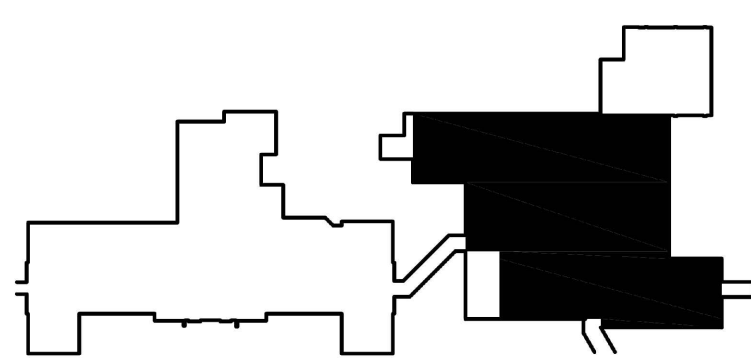
Life Safety Consultant
Jensen-Hughes
1661 Worcester Road
Suite 501
Framingham, MA

Interior Signage Design
Creative Signage
9101 51st Place
College Park, MD 20740
301-345-3700

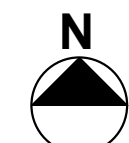
ARCHITECT



185 Talcott Road
Williston, VT 05495
T: 802.878.8841
www.e4harchitecture.com



KEY PLAN



Drawing Title
**MECH. - GROUND FLOOR
DEMOLITION PLAN**

Approved By: L.N.C.

Approved By: -

Approved By: -

Project Title
**INPATIENT WARD
RENOVATION**

Building #

Scale
1/4" = 1'-0"

Location	VAMC - WHITE RIVER JUNCTION
----------	-----------------------------

Date

9/30/2022

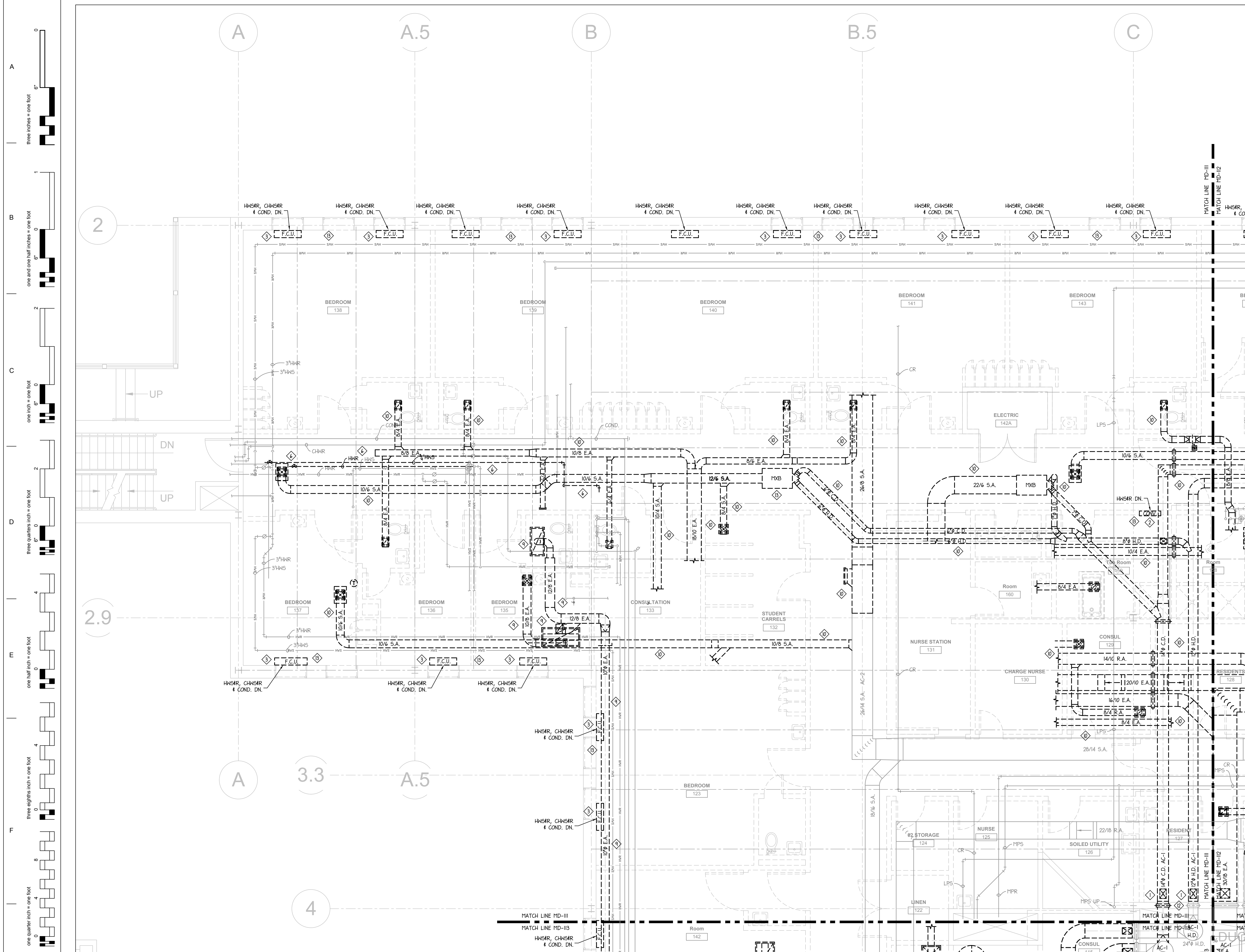
VA Project No
405-13-104

Drawing No.

31-MD-101



Department of



① MECHANICAL - FIRST FLOOR, DEMOLITION PLAN
1/4" = 1'-0"

[illegible]

Mechanical, Plumbing & Electrical Engineering
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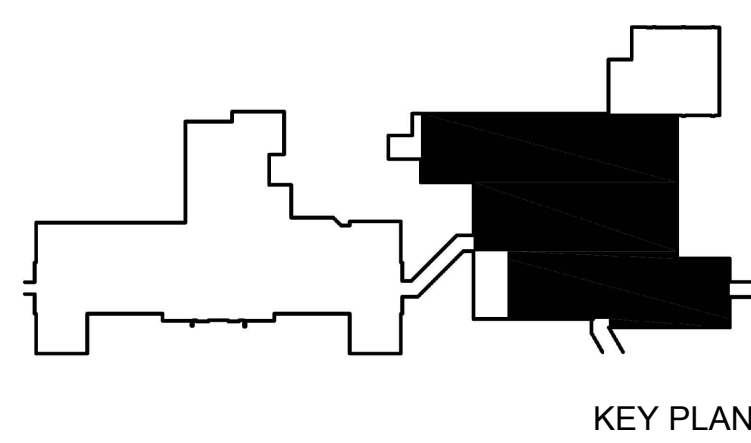
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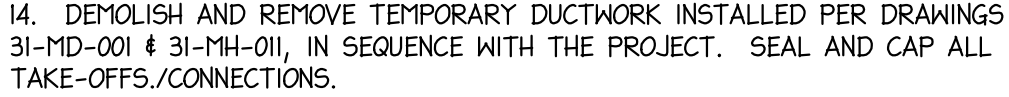
Drawing Title
MECH. - FIRST FLOOR DEMOLITION PLAN
Approved By: L.N.C.
Approved By: -
Approved By: -

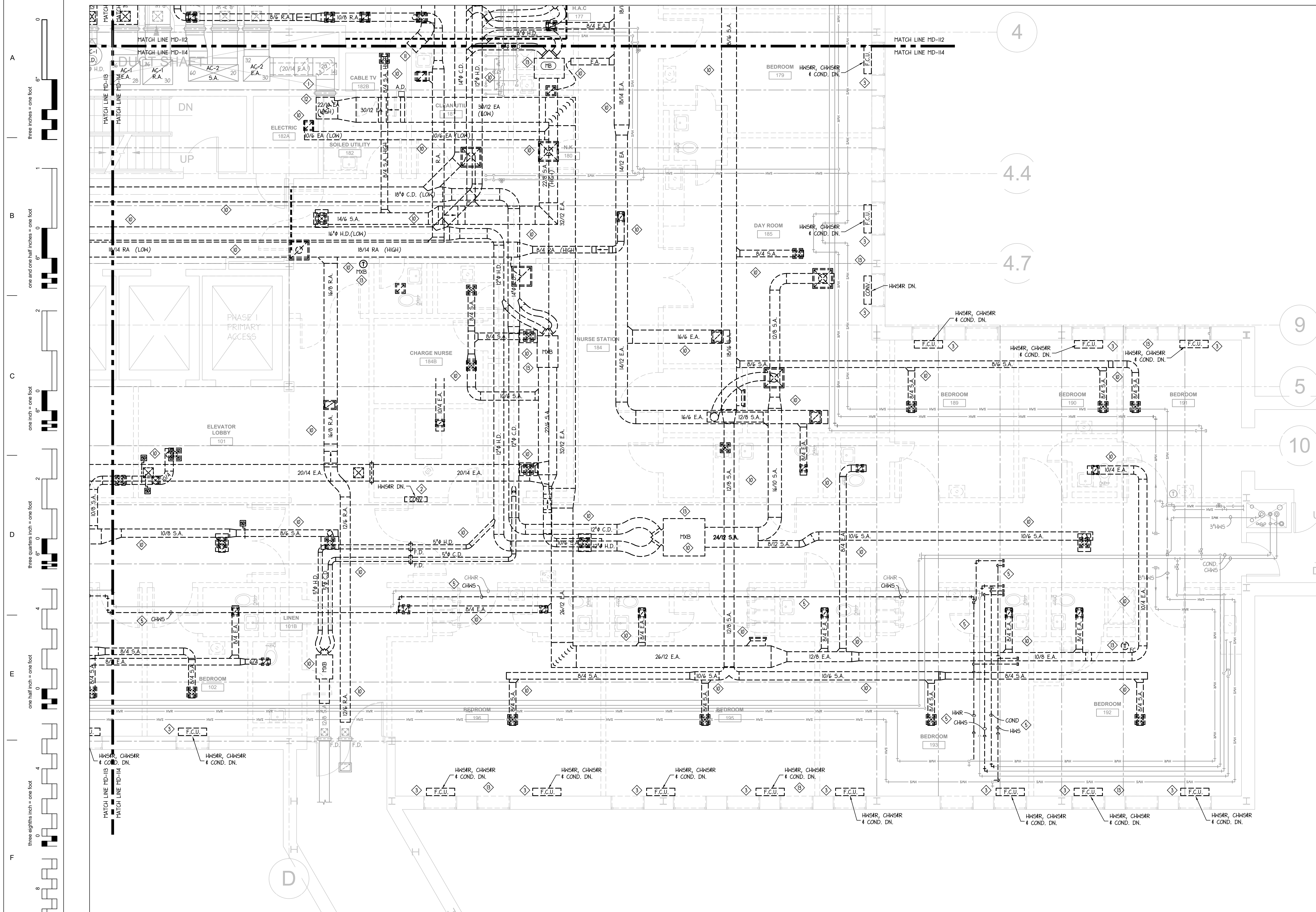
Project Title	
INPATIENT WARD RENOVATION	
Building #	Scale
31	1/4" = 1'-0"
Location	
VAMC - WHITE RIVER JUNCTION	

Date	9/30/2022
VA Project No.	405-13-104
Drawing No.	31-MD-111



Issued for Bidding, Permitting & Construction





① MECHANICAL - FIRST FLOOR, DEMOLITION PLAN
1/4" = 1'-0"

MECHANICAL DEMOLITION LEGEND	
----	MECHANICAL WORK TO BE DEMOLISHED
—	EXISTING MECHANICAL WORK TO REMAIN

MECHANICAL SPECIFIC DEMOLITION NOTES:

NOTE; SEE DRAWINGS 31-MD-011 & 31-MH-011 DEMOLITION AND NEW WORK PHASING PLANS FOR SEQUENCING OF WORK TO SUPPORT CONTINUOUS OPERATION OF AREAS PROPOSED TO REMAIN OCCUPIED.

1. PROVIDE THE SERVICES OF A TESTING AND BALANCE CONTRACTOR TO TAKE PRE-CONSTRUCTION AIR BALANCE READINGS FOR THE MAIN BRANCH DUCTS SERVING THE GROUND FLOOR LEVEL, FIRST FLOOR LEVEL AND SECOND FLOOR LEVEL. NOTE: THE MAIN BRANCHES AND SECONDARY BRANCHES ARE TO BE PRESSURE IN EACH OF THE AC-1 COLD DUCT, AC-1 HOT DUCT, AC-1 RETURN, AC-1 EXHAUST, AC-2 SUPPLY AND AC-2 EXHAUST DUCT BRANCHES. NOTE: SOME SYSTEM HAVE MULTIPLE BRANCHES. FIELD DETERMINE THE BEST APPROACH FOR READING. PROVIDE REPORT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO START OF DEPICTION.
2. DEMOLISH AND REMOVE THE EXISTING CEILINGING HEATING VENTS WITHIN THE PROJECT SCOPE. CUT AND CAP HEATING WATER SUPPLY AND RETURN PIPING IN THE CEILING SPACE OF THE LEVEL BELOW. REMOVE PIPE TO THE UNIT. REMOVE THE CONVECTOR UNIT, COMPLETE WITH ALL TRIM AND FINISHING HARDWARE COORDINATE WITH THE CONTRACTOR FOR CONNECTION OF TUBING AND THE GENERAL TRADES CONTRACTOR FOR PATCHING OF FLOOR.
3. DEMOLISH AND REMOVE THE EXISTING FAN COIL UNITS WITHIN THE PROJECT SCOPE. COORDINATE WITH THE ELECTRICAL AND CONTROLS CONTRACTORS FOR REMOVAL OF THE FAN COIL UNITS. REMOVE THE HEATING WATER SUPPLY, CHILLED WATER LINES AND CONDENSATE PIPING, NEAR MAINS ON THE LEVEL BELOW. SCHEDULE ANY REQUIRED SHUT-DOWN THROUGH THE PROJECT MANAGER. ASSUME BRANCH VALVES WILL NOT HOLD TIGHT. COORDINATE ALL ACCESS TO THE GROUND FLOOR LEVEL THROUGH THE PROJECT MANAGER.
4. DEMOLISH AND REMOVE THE HEATING WATER, CHILLED WATER AND CONDENSATE DRAIN MAIN SERVING SEVERAL UNITS MOUNTED IN THE CEILING SPACE. CUT AND CAP LINES NEAR THE MAINS, ON THE LEVEL BELOW. COORDINATE DEPOSITION OF CONCEALED PIPING IN WALL WITH THE GENERAL TRADE DEPOSITION.
5. DEMOLISH AND REMOVE SECTIONS OF UNUSED INSULATED HEATING WATER, CHILLED WATER AND CONDENSATE DRAIN BRANCH PIPING. CUT AND CAP LINES AS INDICATED. ASSUME BRANCH VALVES WILL NOT HOLD. REMOVE LINES TO ENDS AS INDICATED DASHED.
6. DEMOLISH AND REMOVE A SECTION OF ABANDONED HEATING WATER PIPING (ASSUMED). CUT AND CAP LINES AT LAST ACTIVE POINT. REMOVE PIPING TO ENDS.
7. DEMOLISH AND REMOVE SECTIONS OF LOW PRESSURE STEAM AND CONDENSATE RETURN PIPING SERVING THE EXISTING REHEAT COILS. CUT AND CAP BRANCH PIPING NEAR MAINS. REMOVE PIPING TO COALS. PATCH INSULATION, SUCH THAT ALL SECTIONS OF PIPING ARE INSULATED.
8. DEMOLISH AND REMOVE SECTIONS OF UNUSED MEDIUM PRESSURE STEAM AND CONDENSATE RETURN PIPING SERVING THE EXISTING REHEAT COILS. SOLID VALVES NEAR THE MAINS. REMOVE PIPING WITH ALL SPECIALTIES. PATCH INSULATION AS NOTED ABOVE.
9. DEMOLISH AND REMOVE THE EXISTING ISOLATION ROOF EXHAUST DUCTWORK AS INDICATED DASHED. COORDINATE FOR SHUT-DOWN OF SERVICE TO THE ROOF SERVING IN BLDG. #1 AND SHUT-DOWN OF FAN ON THE ROOF. HANDLE ALL WORK BY CORRIDOR. REMOVE PIPING FROM THE ROOF DOWN TO THE POINT INDICATED IN THE KORRIDOR TO THE RISER DUCT. REMOVE THE FAN/FILTER UNITS FROM THE ISOLATION ROOMS. SEE PHASING PLANS FOR ADDITIONAL SCOPE.
10. REMOVE ALL OF THE EXISTING DUCTWORK WITHIN THE PROJECT SCOPE. NOTE: ONLY DUCTWORK WITHIN AREAS THAT HERE FIELD DOCUMENTED IS TO BE REMOVED OR RE-USE. SCOPE INCLUDES ALL DUCTWORK INCLUDING SECTIONS THAT ARE NOT INDICATED. DEMOLISH AND REMOVE ALL MIXING BOXES, REHEAT COILS, DIFFUSERS AND GRILLES. COORDINATE WITH THE GENERAL TRADES CONTRACTOR FOR REMOVAL OF THE REHEAT COILS OTHER THAN DERRIS AND RECYCLE. DOCUMENT HEIGHTS TO THE OWNER. TEMPORARLY CAP ALL DUCTS AT THE END AT THE CONSTRUCTION BARRIER OR CHASE WALL. COORDINATE WITH FIRE DAMPER WORK, SEE BELOW.
11. REMOVE THE REMAINING SECTIONS OF ABANDONED TRASH CHUTE. REMOVE ALL ASSOCIATED SUPPORT HARDWARE, INSULATION AND AIR PIPING. NOTE: CHUTES IS HEAVY GAUGE STEEL, DISASSEMBLE OR CUT AS REQUIRED FOR REMOVAL.
12. THIS CONTRACTOR SHALL PROVIDE A QUALIFIED SERVICE TECHNICIAN TO TEST ALL EXISTING FIRE DAMPER AT THE MAIN CHASE. EACH DAMPER SHALL BE TRIPPED/RELEASED AND THE ACTION OF THE CURTAIN OBSERVED. DOCUMENT AND REPORT RESULTS AND OBSERVATIONS TO THE ENGINEER AND OWNER. ADVISE ALL SUBMITTERS AFTER TESTING. PROVIDE NEW FIBULE LINKS, MATCH EXISTING RATINGS.
13. PROVIDE THE SERVICES OF A CONTROLS CONTRACTOR TO REMOVE THE EXISTING CONTROLS FOR EACH ZONE, PIECE OR EQUIPMENT AND SYSTEM INDICATED FOR DEPOSITION UNDER THE SCOPE OF THIS PROJECT. REMOVE ALL PNEUMATIC CONTROL AIR TUBING BACK TO SOURCE OF THE NETWORK (AIR TUBING HARDER FOR GREATER LENGTH). REMOVE ALL DOC CONTROLS BACK TO THE NEXT MODULE TO RETAIN AND MAINTAIN INTEGRITY OF THE ACTIVE NETWORK. PROVIDE PROGRAMMING SERVICES TO REMOVE ALL POINTS AND GRAPHICS FROM THE CONTROLS SYSTEM.
14. DEMOLISH AND REMOVE TEMPORARY DUCTWORK INSTALLED PER DRAWINGS 04-100-00-20-101-101-101 IN SEQUENCE WITH THE PROTECT. SEAL AND CAP ALL TAKE-OFFS/CONNECTIONS.



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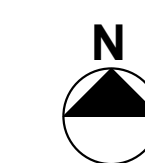
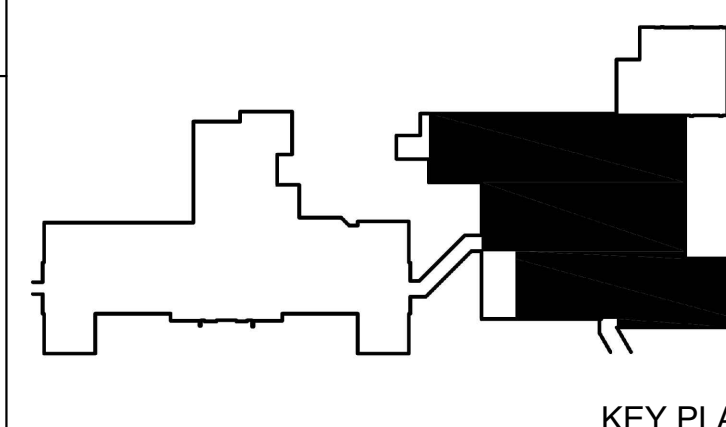
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Drawing Title
**MECH. - FIRST FLOOR
DEMOLITION PLAN**

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Approved By: -
Approved By: -

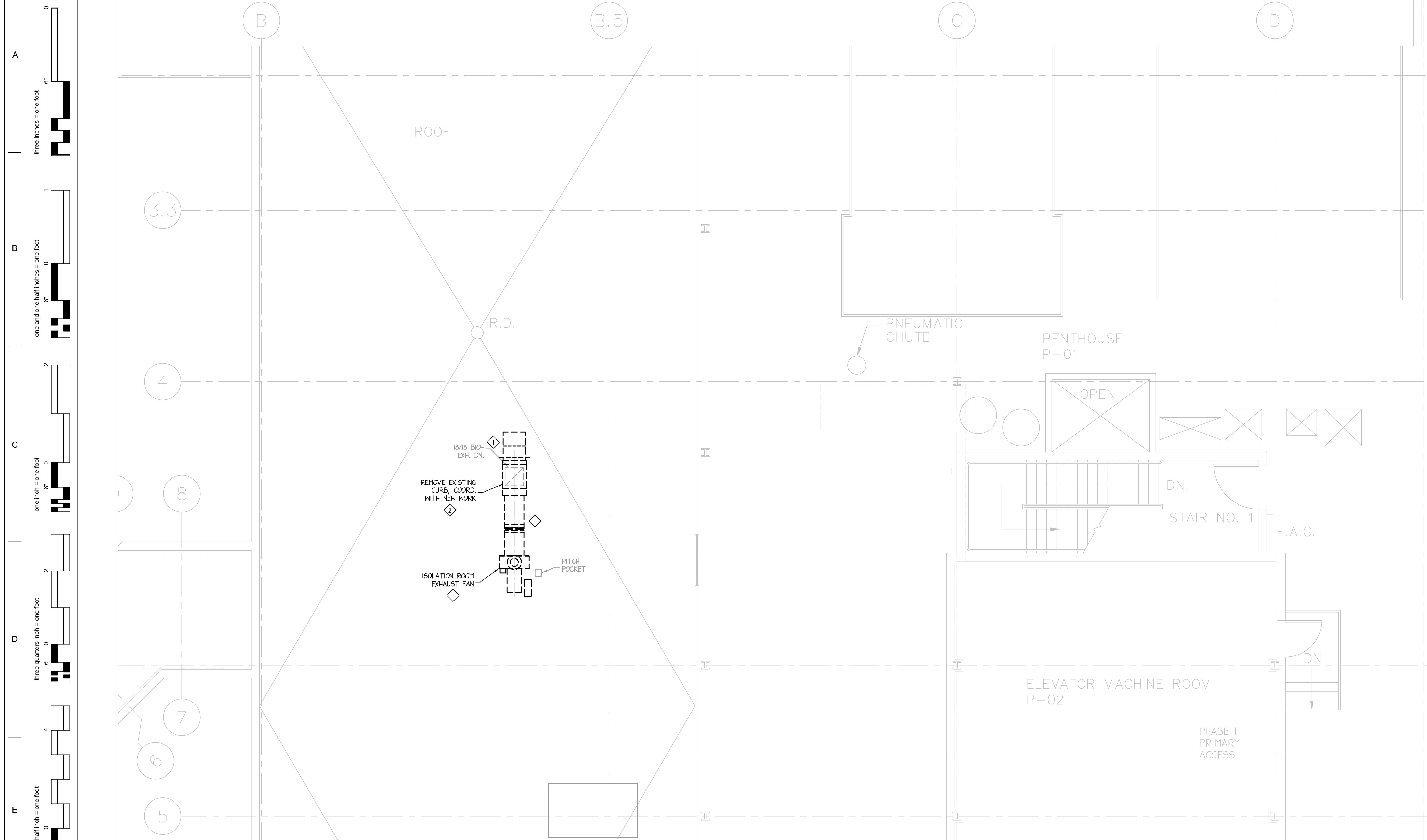
Project Title
**INPATIENT WARD
RENOVATION**

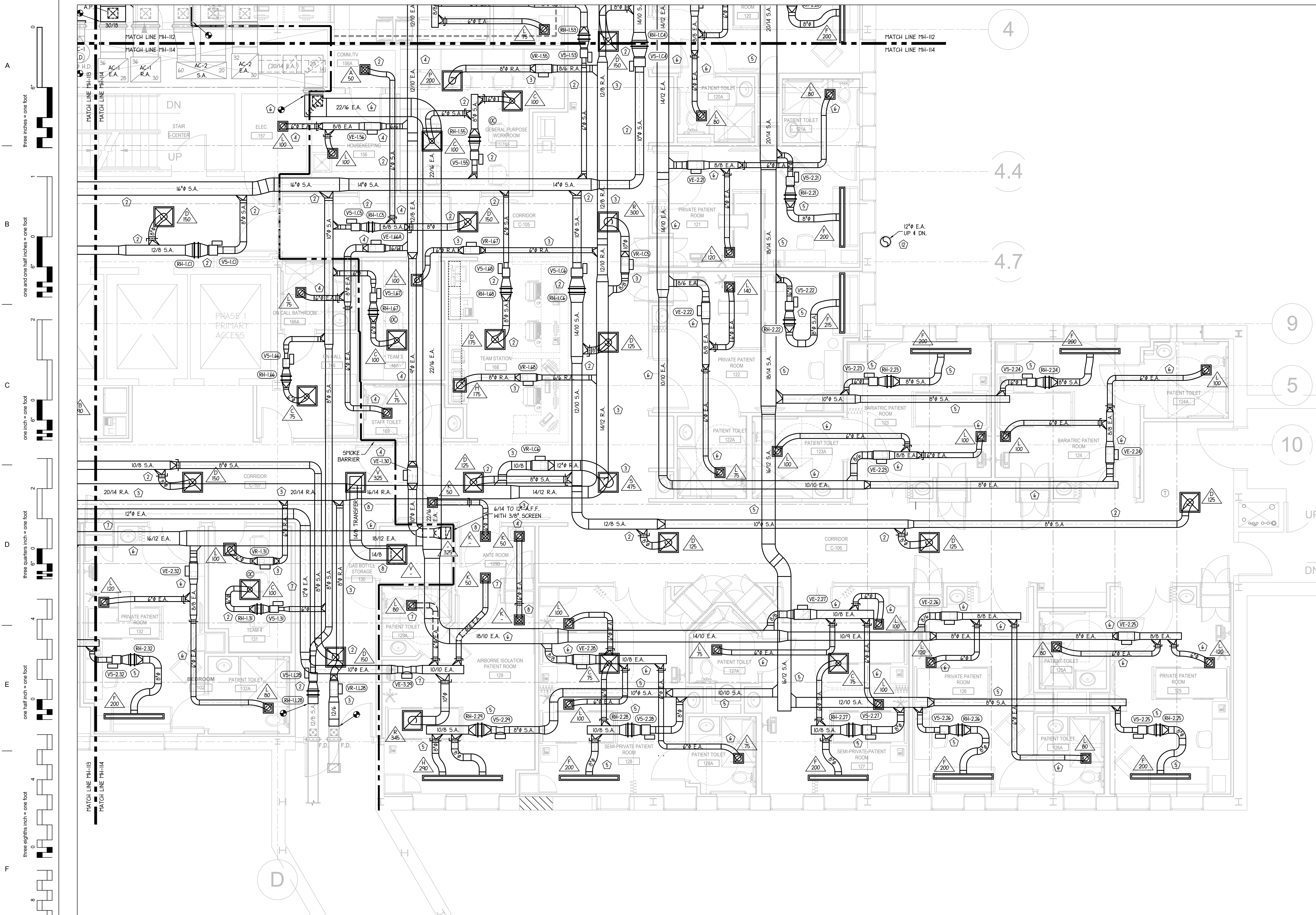
Building # 31	Scale 1/4" = 1'-0"
Location VAMC - WHITE RIVER JUNCTION	

Date	9/30/2022
VA Project No.	405-13-104
Drawing No.	31-MD-1



Department of





① MECHANICAL - FIRST FLOOR, DUCTWORK NEW WORK PLAN
1/4"=1'-0"

MECHANICAL NEW WORK LEGEND	
————	NEW MECHANICAL TO BE FURNISHED AND INSTALLED
————	EXISTING MECHANICAL TO REMAIN

 MECHANICAL SPECIFIC NEW WORK NOTES

NOTE: SEE DRAWINGS 31-MH-011 & 31-MH-011 PHASING PLANS FOR SEQUENCING OF WORK AND SCOPE TO SUPPORT CONTINUOUS OPERATION OF AREAS PROPOSED TO REMAIN OCCUPIED.

1. PROVIDE AND INSTALL A NEW MEDIUM PRESSURE SUPPLY AIR BRANCH FROM THE EXISTING A-1 COLD DECK MAIN RISER IN THE CHASE, AS INDICATED BOLD. INSTALL THE BRANCH DUCT WITH THE PROPER BRANCH DUCT OPENING. INSTALL A NEW FIRE DAMPER, SEE SCHEDULES. DUCT AND INSULATION TO BE PER THE SPECIFICATIONS, 6.0" CLASS.
2. PROVIDE AND INSTALL A COMPLETE SYSTEM OF INTERIOR ZONES SUPPLY AIR DISTRIBUTION DUCTWORK. THE EXISTING A-1 "HOT DECK" BRANCH DUCTS SHALL BE CAPPED AND SEALED AT THE CHASE WALLS. INSTALL NEW MEDIUM PRESSURE "COLD DECK" (S.A.) DISTRIBUTION DUCTWORK THROUGHOUT THE NEW EXISTING BRANCH DUCTS TO THE CHASE. RUN THROUGHOUT THE INTERIOR SECTIONS OF THE SPACE. INSTALL DUCT ACCESS PANELS PROPERLY SIZED FOR SERVICE AND INSPECTION OF THE FIRE DAMPERS. INSTALL SUPPLY ZONES CONSISTING OF A V.A.V. BOX, REHEAT COIL, LOW PRESSURE DUCTWORK, TAKE-OFFS, TAKE-OFFS, SEE EQUIPMENT SCHEDULES AND DETAILS. MAKE FINAL CONNECTIONS WITH INSULATED FLEXIBLE DUCT AND STAINLESS STEEL DRAM BANDS. TAKE-OFF DAMPERS TO BE "RUSKIN" CDRS-25, "NAILOR" #10RD OR APPROVED ALIKE, WITH LOCKING QUADRANT OPERATION. FABRICATE AND INSTALL DUCTWORK PER THE SPECIFICATIONS. TEST, INSULATE AND LABEL PER THE SPECIFICATIONS.
3. PROVIDE AND INSTALL A COMPLETE SYSTEM OF INTERIOR ZONES RETURN AIR DUCTWORK. CONNECT TO THE EXISTING MAIN DUCTS AT THE LOCATIONS INDICATED. INSTALL LOW PRESSURE RETURN DISTRIBUTION DUCTWORK THROUGHOUT THE INTERIOR SECTIONS OF THE SPACE. INSTALL RETURN ZONES CONSISTING OF A V.A.V. BOX (RETURN AIR CONFIGURATION), LOW PRESSURE DISTRIBUTION DUCTWORK, TAKE-OFFS AND GRILLES. MAKE FINAL CONNECTIONS WITH FLEXIBLE DUCT AND STAINLESS STEEL DRAW BANDS. TAKE-OFF DAMPERS TO BE AS NOTED (VFR SUPPLY). SEE FABRICATE, INSTALL, TEST AND LABEL DUCTWORK PER THE SPECIFICATIONS.
4. PROVIDE AND INSTALL A COMPLETE SYSTEM OF INTERIOR ZONE GENERAL EXHAUST AIR DUCTWORK. DUCT, V.A.V. BOXES AND GRILLES SIMILAR TO AS NOTED FOR RETURN AIR DUCTWORK ABOVE. CONNECT TO THE EXISTING DUCT AT THE CHASE AND RUN NEW WITH AN AIR FLOW STATION AND WORK CONTROL DAMPERS IN THE MAIN SECTION OF DUCT, SEE EQUIPMENT SCHEDULES. PROVIDE ACCESS PANEL FOR OBSERVATION OF DEVICES. MOUNT THE A.F.S. DP. TRANSFER ON CHASE WALL, IN ACCESSIBLE LOCATION.
5. PROVIDE AND INSTALL A COMPLETE SYSTEM OF PERIMETER ZONES SUPPLY AIR DISTRIBUTION DUCTWORK. CONNECT TO THE EXISTING A-2 SUPPLY AIR BRANCH DUCTS AT THE CHASE WALLS. INSTALL MEDIUM PRESSURE SUPPLY AIR DISTRIBUTION DUCTWORK TO THE PERIMETER AREAS. INSTALL V.A.V. SUPPLY BOXES SIMILAR TO AS NOTED FOR THE INTERIOR ZONES. UTILIZE AIR CONTROL VALVES FOR THE ISOLATION ROOMS. COORDINATE WITH THE MECHANICAL TRAFFIC CONTROLS FOR CEILING GRID LAYOUT TO ACCOMMODATE THE PROPOSED LINEAL DIFFUSERS. TEST, INSULATE AND LABEL DUCTWORK PER THE SPECIFICATIONS.
6. PROVIDE AND INSTALL A COMPLETE NEW SYSTEM OF GENERAL EXHAUST AIR DUCTWORK AND ZONES TO SERVE THE PERIMETER ZONES. CONNECT TO THE A-2 EXHAUST BRANCH DUCTS AT THE POINTS INDICATED. DUCTWORK, V.A.V. BOXES AND GRILLES TO BE SIMILAR TO AS NOTED FOR RETURN AIR DUCTWORK, PREVIOUSLY.
7. INSTALL A NEW SYSTEM OF INTERIOR ROOM EXHAUST DUCTWORK AND ZONES TO SERVE THE EXISTING AND PROPOSED ISOLATION ROOMS. CONNECT TO THE EXISTING RISER DUCT NEAR THE DECK LEVEL AND INSTALL NEW MEDIUM PRESSURE EXHAUST AIR DISTRIBUTION DUCTWORK TO THE ISOLATION ROOMS. BRANCH DUCTWORK WITH AIR CONTROL VALVES TO EACH ZONE. INSTALL LOW PRESSURE DUCTWORK WITH TAKE-OFFS AND GRILLES AS INDICATED. MAKE FINAL CONNECTIONS WITH RIGID DUCTS, FLEXIBLE DUCT IS NOT PERMITTED FOR THESE ROOMS. FABRICATE, INSTALL AND TEST PER THE SPECIFICATION.
8. INSTALL TRANSFER AIR DUCTWORK AND GRILLES TO SERVE THE INDICATED SPACES. FABRICATE AND INSTALL EQUAL TO RETURN AIR DUCTWORK. FLEXIBLE DUCTWORK IS NOT PERMITTED IN TRANSFER DUCTS.
9. PROVIDE AND INSTALL NEW SPLIT SYSTEM A/C SYSTEMS TO SERVE THE T.R. ROOM, SEE EQUIPMENT SCHEDULES. MOUNT THE INDOOR UNITS HIGH ON THE WALL (WHERE INDICATED) AND THE OUTDOOR UNITS ON THE ROOF, SEE DWG. 31-194-B1. COORDINATE FOR POWER AND CONTROL CONNECTIONS.
10. PROVIDE THE SERVICES OF A CONTRACTOR TO INSTALL A COMPLETE SYSTEM OF DDC CONTROLS FOR EACH ZONE, PIECE OF EQUIPMENT AND SEE THE SPECIFICATIONS FOR THE DDC CONTROLS. OBTAIN THE COMPLETE SCOPE OF WORK. COORDINATE AND WORK WITH THE AIR BALANCE CONTRACTOR FOR SET-UP AND VERIFICATION OF ALL AIR CONTROL DEVICES.
11. PROVIDE THE SERVICES OF AN AIR TESTING AND BALANCE CONTRACTOR TO MEASURE, ADJUST AND BALANCE ALL HVAC ZONES AND EQUIPMENT. PROVIDE VERIFICATION AND CALIBRATION READINGS FOR ALL AIR FLOW STATIONS. WORK WITH THE CONTROLS CONTRACTOR TO SET-UP EACH VOLUME CONTROL DAMPER AND VARIABLE AIR VOLUME CONTROL BOX IN, AND OUT. SET THE FLOW FOR EACH ISOLATION ROOM ZONE. SET THE FLOW TO BE EQUAL. BALANCE EACH AIR INLET/OUTLET TO DESIGN VOLUMES. PERFORM ALL WORK PER THE SPECIFICATIONS.
12. CONTINUE THE PROPOSED ISOLATION EXHAUST FROM THE GROUND FLOOR LEVEL TO THE ROOF, SEE GROUND FLOOR NEW WORK PLAN NOTES.



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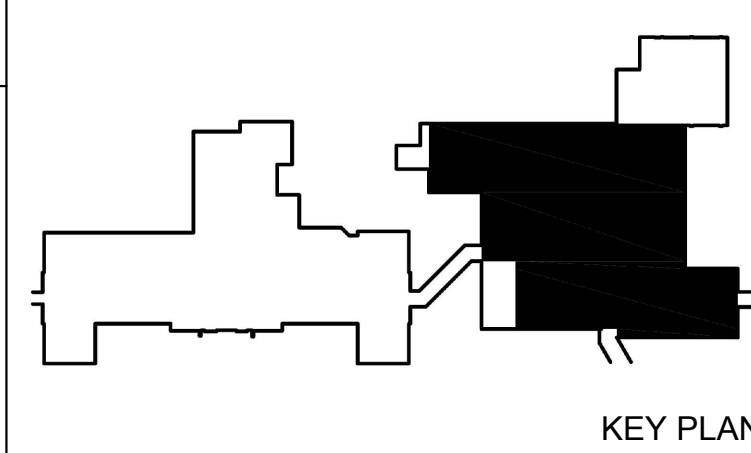
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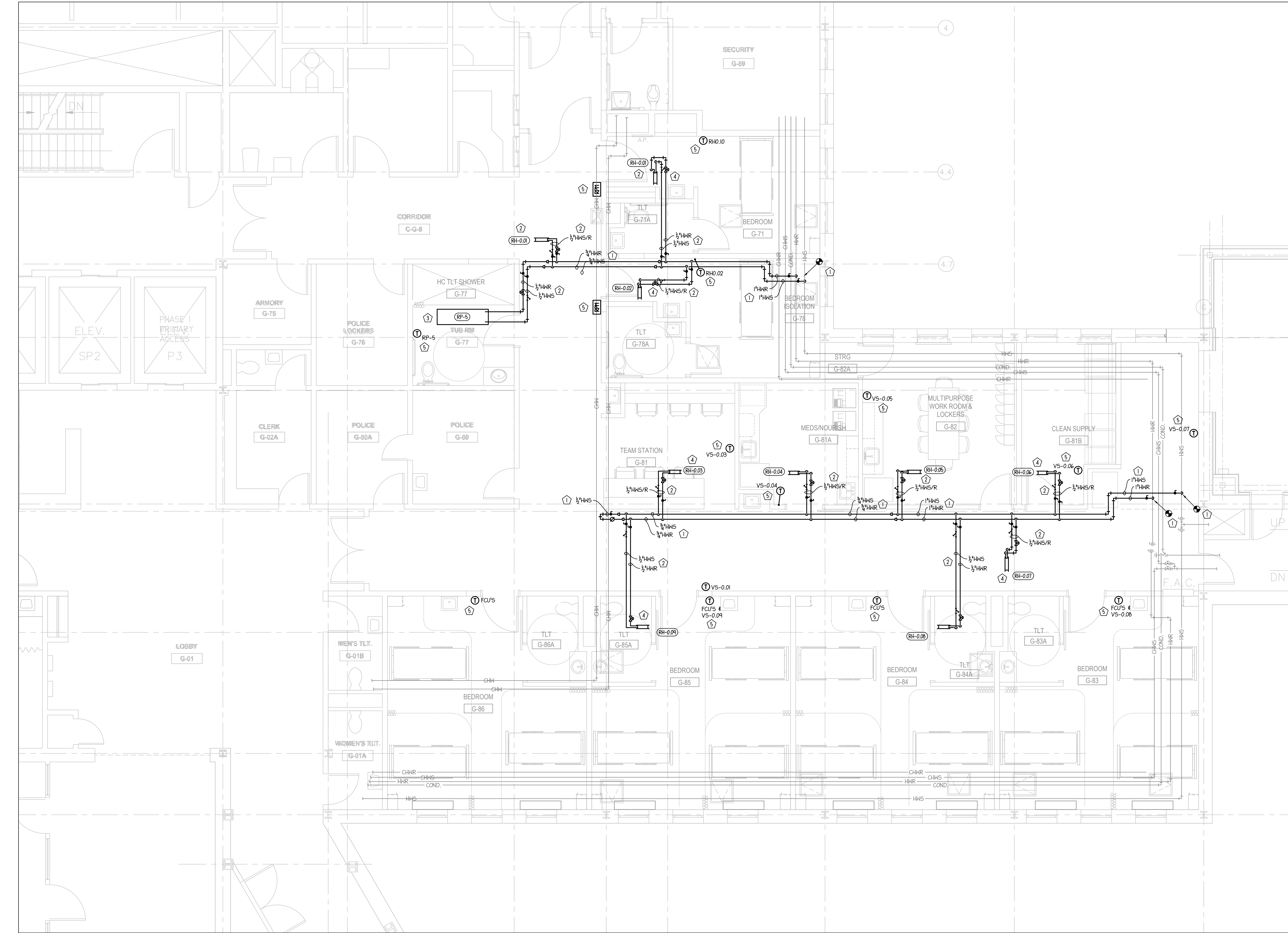


Drawing Title
MECH. - FIRST FLOOR DUCT NEW WORK PLAN
Approved By: L.N.C.
Approved By: -
Approved By: -


Project Title	
INPATIENT WARD RENOVATION	
Building #	Scale
31	1/4" = 1'-0"
Location	
VAMC - WHITE RIVER JUNCTION	

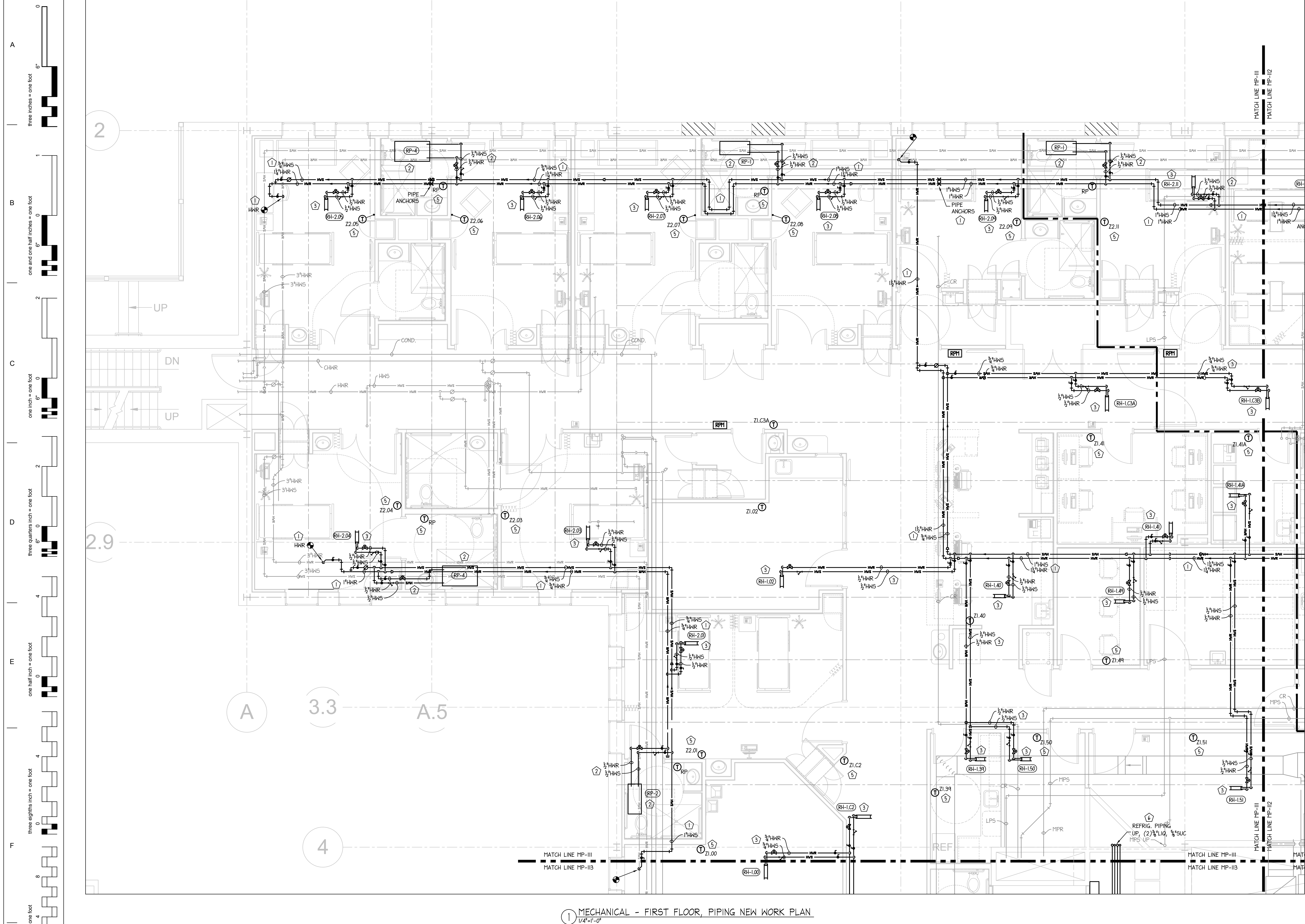
Date	9/30/2022
VA Project No.	405-13-104
Drawing No.	31-MH-114





KEY PLAN





① MECHANICAL - FIRST FLOOR, PIPING NEW WORK PLAN
1/4" = 1'-0"

MECHANICAL NEW WORK LEGEND

—	NEW MECHANICAL TO BE FURNISHED AND INSTALLED
---	EXISTING MECHANICAL TO REMAIN

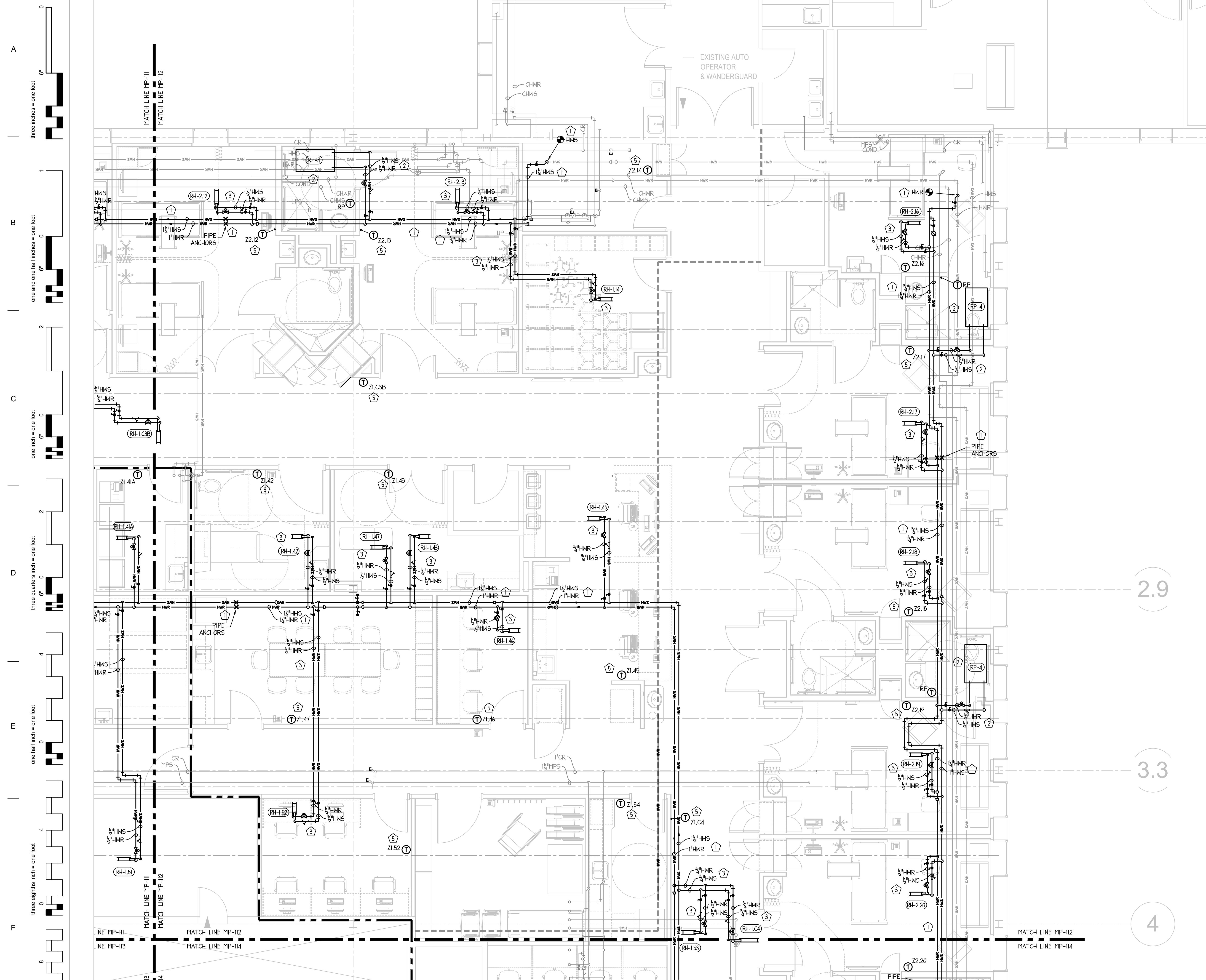
 MECHANICAL SPECIFIC NEW WORK NOTES:

1. INSTALL NEW SUB-MAN LLOOPS FROM THE EXISTING HEATING WATER SUPPLY AND RETURN MAINS. SCHEDULE A SHUT-DOWN OF THE MAINS ON THIS LEVEL. (SERVES LEVEL 2). INSTALL NEW THREADED BRASS PLUGS TO BE USED FOR FILLING MAINS. FIELD VERIFY LOCATIONS. INSTALL BLACK STEEL NIPPLE AND DI-ELECTRIC FITTING. TRANSITION TO COPPER PIPE. INSTALL NEW SUB-MAN SUPPLY AND RETURN PIPING AS INDICATED BLOCK. PIPE, INSTALLATION AND INSULATION TO BE PER THE SPECIFICATIONS. LABEL ALL NEW PIPING AND PROVIDE FLOW ARROWS.
2. INSTALL NEW RADIANT PANELS IN THE INDICATED TOILET ROOMS, SEE EQUIPMENT SCHEDULES. DELIVER THE MOUNTING FRAMES TO THE GENERAL CONTRACTOR. TRADES CONTRACTOR TO INSTALL INTO THE CEILING SYSTEM. MOUNT PANELS IN FRAME WITH HOLD DOWN CLIPS AND INSULATION BLANKET. INSTALL BRASS PIPING FROM THE SUB-MAINS WITH VALVES AND SPECIALTIES PER PLAN AND DETAILS. OBTAIN CONTROL VALVES FROM THE CONTROLS CONTRACTOR.
3. INSTALL BRASS PIPING FROM THE SUB-MAINS TO FEED ALL REHEAT COILS. PROVIDE PIPING WITH ISOLATION VALVES AND SPECIALTIES PER THE COIL PIPING DETAIL/DIAGRAM. OBTAIN CONTROL VALVES FROM THE CONTROLS CONTRACTOR.
4. PROVIDE THE SERVICES OF A WATER TESTING AND BALANCE CONTRACTOR TO MEASURE, ADJUST AND BALANCE HEATING WATER FLOW FOR EACH MAIN AND SUB LOOP AND OF THE DUCT PASS ON THIS LEVEL WITHIN THE PROJECT SCOPE. OVERHEAD 500' ALL CONTROL VALVES FULL OPEN AND BALANCE SUB-MAN END OF LINE VALVES TO 1.0 GPM. BALANCE MAINS END OF LINE VALVES TO 2.5 GPM. PERFORM ALL WORK PER THE SPECIFICATIONS.
5. PROVIDE CONTROLS FOR EACH ZONE/SYSTEM. SEE DETAIL PLANS AND CONTROLS DRAWINGS.
6. PROVIDE AND INSTALL NEW REFRIGERANT PIPING FROM THE PROPOSED SPLIT SYSTEM AC INDOOR UNIT TO THE OUTDOOR UNIT. ROUTE PIPING THROUGH THE HALL AND UP IN THE EXISTING CHASE. TRADES CONTRACTOR TO PROVIDE THE SPECIFICATIONS.



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1/4" = 1'-0"

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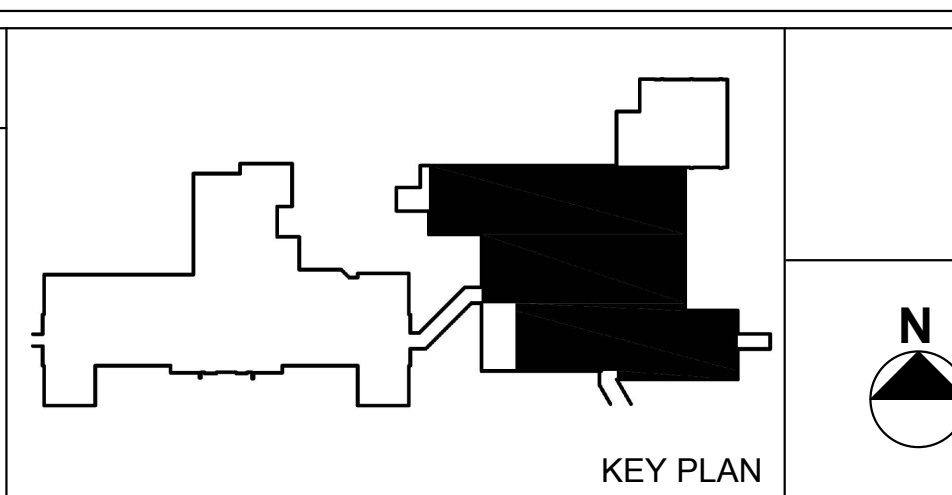
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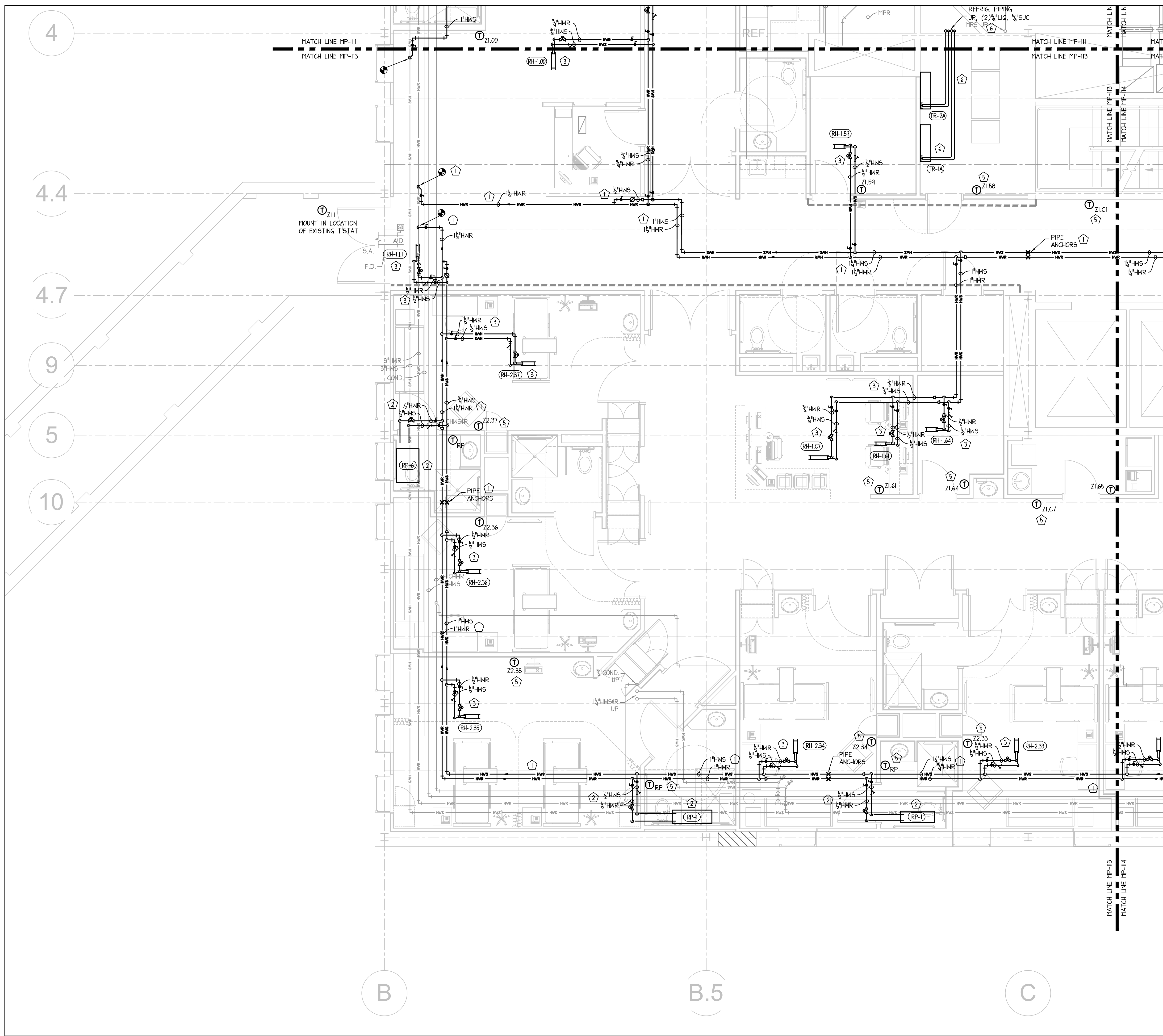
Drawing Title	MECH. - FIRST FLOOR PIPING NEW WORK PLAN
Approved By: L.N.C.	
Approved By: -	
Approved By: -	

Project Title	
INPATIENT WARD RENOVATION	
Building #	Scale
31	1/4" = 1'-0"
Location	
VAMC - WHITE RIVER JUNCTION	

Date	9/30/2022
VA Project No.	405-13-104
Drawing No.	31-MP-112

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MECHANICAL NEW WORK LEGEND	
————	NEW MECHANICAL TO BE FURNISHED AND INSTALLED
————	EXISTING MECHANICAL TO REMAIN

1. INSTALL NEW SUB-MAIN LOOPS FROM THE EXISTING HEATING WATER SUPPLY AND RETURN MAINS. SCHEDULE A SHUT-DOWN OF THE MAINS ON THIS LEVEL (SERVING LEVEL 2). INSTALL NEW 1/2" POLY-ETHYLENE GLASS FIBRE REINFORCED (PEFR) ELECTRIC FLEXI-PIPE, INSULATE WITH 1" FIBRE GLASS WOLLE, DIE-CAST FITTING, TRANSITION TO COPPER PIPE. INSTALL NEW SUB-MAIN SUPPLY AND RETURN PIPING AS INDICATED BOUL. PIPE, INSTALLATION AND INSULATION TO BE PER THE SPECIFICATIONS. LABEL ALL NEW PIPING AND PROVIDE FLOW ARROWS.
2. INSTALL NEW RADIANT PANELS IN THE INDICATED TOILET ROOMS, SEE EQUIPMENT SCHEDULES. DELIVER THE MOUNTING FRAMES TO THE GENERAL TRADE CONTRACTOR FOR INSTALLATION INTO THE CEILING. PROVIDE MOUNTING FRAMES WITH WELD DOWN CLIPS AND INSULATION BLANKET. INSTALL BRANCH PIPING FROM THE SUB-MAINS WITH VALVES AND SPECIALTIES PER PLAN AND DETAILS. OBTAIN THE CONTROL VALVES FROM THE CONTROLS CONTRACTOR.
3. INSTALL BRANCH PIPING FROM THE SUB-MAINS TO FEED ALL REHEAT COILS. PROVIDE PIPING WITH ISOLATION VALVES AND SPECIALTIES PER THE COIL PIPING DETAIL/DIAGRAM. OBTAIN CONTROL VALVES FROM THE CONTROLS CONTRACTOR.
4. PROVIDE THE SERVICES OF A WATER TESTING AND BALANCE CONTRACTOR TO MEASURE, ADJUST AND BALANCE HEATING WATER FLOW FOR EACH MAIN AND SUB LOOP END OF LINE PIPASS ON THIS LEVEL. THE PERFORM THE PIPING AND BALANCE WORK FOR ALL CONTROL VALVES FULL OPEN AND BALANCE SUB-MAIN END OF LINE VALVES TO 10 GPM. BALANCE MAINS END OF LINE VALVES TO 25 GPM. PERFORM ALL WORK PER THE SPECIFICATIONS.
5. PROVIDE CONTROLS FOR EACH ZONE/SYSTEM. SEE DUCT PLANS AND CONTROLS DRAWINGS.
6. PROVIDE AND INSTALL NEW REFRIGERANT PIPING FROM THE PROPOSED SPLIT SYSTEM A/C INDOOR UNIT TO THE INDOOR UNIT, ROUTE PIPING THROUGH THE HALL AND UP IN THE EXISTING CHASE. PIPING AND INSULATION TO BE PER THE SPECIFICATIONS.

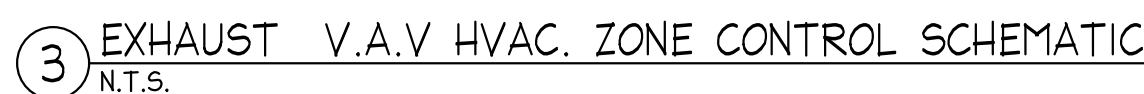
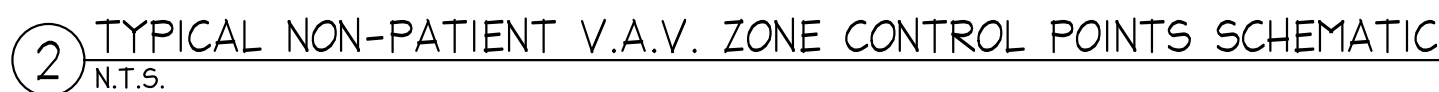


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13. THE CONTROLS CONTRACTOR SHALL DEMOLISH AND DECOMMISSION THE EXISTING CONTROL SYSTEMS SUPPORTING EQUIPMENT TO BE DEMOLISHED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO COORDINATE, CONDUCTORS, SENSORS, CONTROLLERS, PROGRAMMING AND FRONT END GRAPHICS. COORDINATE WORK WITH THE MECHANICAL CONTRACTOR AND BUILDING OWNER.
14. THE CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPERATURE CONTROL VERIFICATION, SEQUENCE OF OPERATIONS VERIFICATION, AND SYSTEM COMMISSIONING AT THE COMPLETION OF EACH PHASE OF WORK. THE CONTROLS CONTRACTOR SHALL BE PRESENT DURING THE FINAL CONTROLS SYSTEM COMMISSIONING PROCESS AND SHALL ASSIST THE COMMISSIONING AGENT, THE BALANCE CONTRACTOR, AND THE MECHANICAL CONTRACTOR DURING THE COMMISSIONING PROCESS.
15. THE CONTROLS CONTRACTOR SHALL COORDINATE ALL WORK WITH THE MECHANICAL PLANS AND SCHEDULES, AND THE ELECTRICAL PLANS AND SCHEDULES.
16. THE CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR ASSISTING THE TESTING AND BALANCING AGENT AS REQUIRED. THE CONTROLS CONTRACTOR SHALL BE ON SITE DURING THE TESTING AND BALANCING PROCESS, AND SHALL WORK WITH THE TESTING AND BALANCING AGENT TO VERIFY THE CORRECT OPERATIONS OF ALL CONTROLS SEQUENCES.
17. THE CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR ASSISTING THE COMMISSIONING AGENT AS REQUIRED. THE CONTROLS CONTRACTOR SHALL BE ON SITE DURING THE COMMISSIONING PROCESS AND SHALL WORK WITH THE COMMISSIONING AGENT TO VERIFY THE CORRECT OPERATIONS OF ALL CONTROLS SEQUENCES.
18. THE CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED FRONT-END GRAPHICS AND PROGRAMMING TO DISPLAY AT THE OWNER'S EXISTING OPERATOR'S STATION.
19. THE CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING POWER AND CONTROLS TRANSFORMERS FOR ALL PROJECT BUILDING AUTOMATION SYSTEMS, CONTROLS PANELS AND CONTROLLERS. THE CONTROLS CONTRACTOR SHALL COORDINATE POWER REQUIREMENTS AND CONTROLS TRANSFORMER(S) SIZE(S) WITH THE ELECTRICAL CONTRACTOR PRIOR TO BID.
20. ALL POINTS LISTS SHOWN SHALL BE CONTROLLED FROM A SINGLE CONTROLLER OR MULTIPLE CONTROLLERS HARD-WIRED TOGETHER. THE BROADCASTING OF POINTS OVER THE COMMUNICATIONS BUS IS NOT ACCEPTABLE.



1. PROVIDE SPACE TEMPERATURE SENSORS WITH LIMITED ACCESSIBLE LOCAL ADJUSTMENT AND WITH A DIGITAL TEMPERATURE DISPLAY. HALL MOUNT AT 54"± A.F.F. DEVICES TO BE WATER RESISTANT AND CLEANABLE. LABEL WITH ZONE NUMBER.
2. PROVIDE CONTROL VALVES TO THE MECHANICAL CONTRACTOR FOR INSTALLATION. CALCULATE FINAL SIZING FOR ALL VALVES.
3. VERIFY V.A.V. BOX VOLUME MIN/MAX. CONTROL SET POINTS WITH AIR BALANCE READINGS.
4. PROVIDE PROGRAMMING TO DISPLAY V.A.V. BOX VELOCITY PRESSURE IN EQUIVALENT CFM VALUE AT THE OPERATOR STATION.
5. CONTRACTOR TO SET UP TRENDING FOR V.A.V. BOX DISCHARGE AIR TEMPERATURE AND ROOM TEMPERATURE, DIFFERENTIAL ALL ZONES.
6. PROVIDE AND INSTALL CEILING MOUNTED OCCUPANCY SENSORS IN ALL WORK ROOMS, MULTI-PURPOSE ROOMS, TEAM ROOMS AND SIMILAR TYPE OCCUPANCY. SENSORS TO BE DUAL TECHNOLOGY TYPE.

1. VERIFY V.A.V. BOX VOLUME MIN./MAX. CONTROL SET POINTS WITH AIR BALANCE READINGS.
2. PROVIDE PROGRAMMING TO DISPLAY V.A.V. BOX VELOCITY PRESSURE IN EQUIVALENT CFM VALUE AT THE OPERATOR STATION.

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South Burlington, VT 05403
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208 Flynn Avenue, Suite 2A
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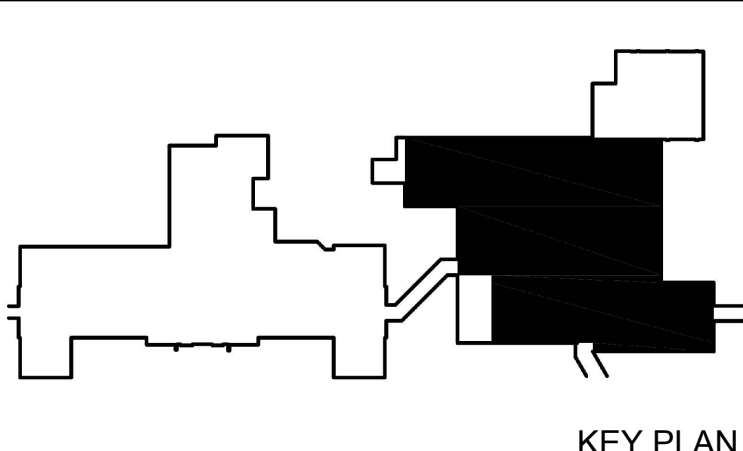
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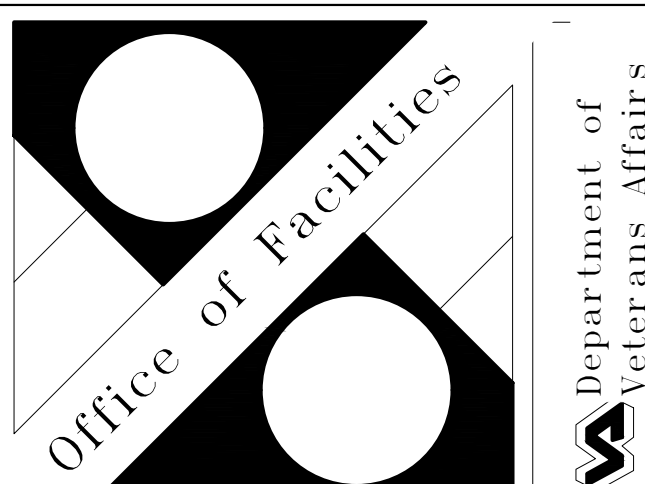
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Project Title	
INPATIENT WARD RENOVATION	
Building #	Scale
31	NO SCALE
Location	
VAMC - WHITE RIVER JUNCTION	

Date	9/30/2022
VA Project No.	405-13-104
Drawing No.	31-M-301





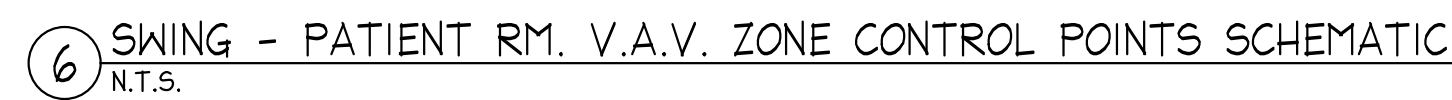
THE ISOLATION ROOM EXHAUST FANS SHALL BE COMMANDED TO START FROM THE OPERATOR STATION. ON COMMAND TO START THE RANDOMLY SELECTED LEAD FAN SHALL BE STARTED AND RUN CONTINUOUSLY. THE FAN SHALL BE MODULATED AS REQUIRED TO MAINTAIN A PROGRAMMED DUCT STATIC SET POINT. WHEN THE LEAD FAN IS AT THE SET POINT, THE FOLLOW-UP FAN SHALL BE STARTED AND MODULATED UP TO SET POINT. THE LEAD PUMP SHALL BE SHUT DOWN AND AN ALARM SENT TO THE SYSTEM. THE PUMP LEAD/LAG ORDER SHALL BE REVERSED EVERY 240 HOURS. FAN SUCTION STATIC PRESSURE SHALL BE MONITORED TO THE SYSTEM AND ALARM SET POINTS. FAN LEAKAGE LEVELS, FAULTS AND PRIMARY FLOW DIFFERENTIALS PRESSURES SHALL BE MONITORED TO THE SYSTEM. A FILTER CHANGE NOTICE VALUE AND HIGH (ALARM) VALUE SHALL BE PROGRAMMED INTO THE SYSTEM.

EXHAUST FAN "A" FAIL
EXHAUST FAN "B" FAIL
EXHAUST DUCT S.P. LOW
FAN SUCTION S.P. HIGH
PRE-FILTER "A" D.P. HIGH
PRIMARY FILTER "A" HIGH
PRE-FILTER "B" D.P. HIGH
PRIMARY FILTER "B" HIGH

1. OBTAIN THE VFD'S FROM THE ELECTRICAL CONTRACTOR AND INSTALL REMOTE FROM THE FANS (IN THE PENTHOUSE). PROVIDE SET-UP AND PROGRAMMING FOR VFD'S. INDICATED VFD POINTS TO BE HARD WIRED. ADDITIONAL VFD MONITORING AND CONTROL POINTS SHALL BE MAPPED VIA THE "NETWORK" TO THE OPERATOR STATION. PROVIDE AN ALLOWANCE TO MAP EIGHT (8) ADDITIONAL POINTS AS SELECTED BY THE ENGINEER FROM THE VFD'S MANUFACTURER POINTS LIST.

3. PROVIDE FAN SUCTION STATIC PRESSURE SENSOR IN THE FAN INLET PLENUM. UNIT TO BE RATED FOR EXTERIOR INSTALLATION OR MODIFY INSTALLATION AS REQUIRED.

4. PROVIDE AN ISOLATION EXHAUST DUCT STATIC PRESSURE SENSOR FOR FAN CONTROL INPUT. MOUNT UNIT IN THE CEILING OF THE SAME FLOOR LEVEL AS THE ISOLATION ROOMS.



HEATING MODE;
WHEN THE SPACE TEMPERATURE DROPS BELOW SET POINT
THE THE ZONE FAN COIL UNITS HEATING WATER CONTROL
VALVES (2) SHALL BE MODULATED OPEN TOGETHER AS
REQUIRED TO SATISFY SPACE TEMPERATURE. THE ZONE
SUPPLY V.A.V. BOX SHALL OPERATE AS A PRESSURE
INDEPENDENT CONSTANT VOLUME UNIT (PER EQUIPMENT
SCHEDULES). THE REHEAT COIL CONTROL VALVE SHALL BE
MODULATED OPEN AS REQUIRED TO MAINTAIN DISCHARGE AIR
TEMPERATURE AT 1.0 DEG F (ADJ.) ABOVE SPACE SET POINT
TEMPERATURE.

COOLING MODE;
WHEN SPACE TEMPERATURE RISES ABOVE SET POINT THE THE
ZONE FAN COIL UNITS CHILLED WATER CONTROL VALVES (2)
SHALL BE MODULATED OPEN TOGETHER AS REQUIRED TO
SATISFY SPACE TEMPERATURE. THE ZONE SUPPLY V.A.V.
BOX REHEAT COIL CONTROL VALVE SHALL BE MODULATED
OPEN AS REQUIRED TO MAINTAIN DISCHARGE AIR
TEMPERATURE AT 2.0 DEG F (ADJ.) BELOW SPACE SET POINT
TEMPERATURE.

SUPPLY V.A.V. AIR VOLUME LOW
SUPPLY V.A.V. AIR VOLUME HIGH
SPACE TEMPERATURE HIGH
SPACE TEMPERATURE LOW
DISCHARGE AIR TEMPERATURE LOW
NOTE: MAINTAIN EXISTING FAN COIL ALARMS

1. PROVIDE SPACE TEMPERATURE SENSORS WITH LIMITED ACCESSIBLE LOCAL ADJUSTMENT AND WITH A DIGITAL TEMPERATURE DISPLAY. WALL MOUNT AT 54" +/- A.F.F. NOTE: RE-INSTALL SALVAGED DEVICES TO THE GREATEST EXTENT AVAILABLE. NEW DEVICES TO BE WATER RESISTANT AND CLEANABLE. LABEL WITH ZONE NUMBER.

2. PROVIDE CONTROL VALVES TO THE MECHANICAL CONTRACTOR FOR INSTALLATION. CALCULATE FINAL SIZING FOR ALL VALVES.

3. VERIFY V.A.V. BOX VOLUME MIN./MAX. CONTROL SET POINTS WITH AIR BALANCE READINGS.

4. PROVIDE PROGRAMMING TO DISPLAY V.A.V. BOX VELOCITY PRESSURE IN EQUIVALENT CFM VALUE AT THE OPERATOR STATION.

5. CONTRACTOR TO SET UP TRENDING FOR V.A.V. BOX DISCHARGE AIR TEMPERATURE AND ROOM TEMPERATURE, TYPICAL ALL ZONES.

ABBREVIATIONS

ACC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
ACRU	AIR COOLED RECIRCOPATING CHILLER UNIT
ACU	ABSORPTION CHILLER UNIT
AD	AIR DOOR
AF	AFTER FILTER
AFCE	AIR FLOW CONTROL VALVE
AFW	AIR FLOW MEASURING DEVICE
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
BR	BACKWARD INCLINED WHEEL
EGW	EXHAUST GRILLE (WALL TYPE)
BB	BOTTOM REGISTER (WALL TYPE)
C	CONVERTOR
CC	COOLING COIL
CCF	CENTRIFUGAL CEILING FAN
CCU	CENTRIFUGAL OR HELICAL ROTARY SCREW CHILLER UNIT
CD	CEILING DIFFUSER
CF	CENTRIFUGAL FAN
CG	CEILING GRILLE
CO	CLEAN OUT
COMP.	COMPRESSOR
CONDV.	CONDENSOR
CR	CONDENSATE PUMP
CP	CEILING REGISTER
CS	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CW	COLD WATER
D	AUTOMATIC DAMPER
DB	DRY BULB TEMPERATURE
DB	DEWBELS
DD	DISCHARGE DAMPERS
DP	DEWPOINT TEMPERATURE
DR	DIRECT EXPANSION
E/A	EXHAUST AIR
EC	EVAPORATIVE CONDENSER
EE	ENGINEERING CONTROL CENTER
EDH	ELECTRIC COIL DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EGW	EHTYLENE GLYCOL-WATER SOLUTION (% GLYCOL BY VOLUME)
EMD	END OF MAIN PIP (STEAM)
ERC	ENERGY RECOVERY COIL
ERP	ELECTRIC RADIANT CEILING PANEL
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EW	EVAPORATIVE WATER COOLER
EX	EXISTING
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FCW	FORWARD CURVED FAN
FLR	FLOOR
FLDR.	FLOOR DAMPER
FTR	FACORY FABRICATED FAN SECTION
FT	FIN TUBE RADIATION
GH	HEATING HOOD
HC	HEATING COIL
HD	HOOD
HE	AIR TO AIR HEAT EXCHANGER
HF	HEPA FILTER
HP	HORSEPOWER
HPR	HIGH PRESSURE STEAM
HPS	CONDENSATE RETURN
HRP	HIGH PRESSURE STEAM
HVR	HYDRONIC RADIANT CEILING PANEL
ICF	HEATING AND VENTILATING UNIT
IEF	IN-LINE CENTRIFUGAL FAN
IEF	INDUSTRIAL EXHAUST FAN
IU	INDOOR FACE AND BYPASS
IU	INDUCTION UNIT
IV	INLET VANES
LCD	LINEAR CEILING DIFFUSER
LPR	LOW PRESSURE STEAM
LPS	CONDENSATE RETURN
LTP	LOW PRESSURE STEAM
LTCF	LOCAL TEMPERATURE CONTROL
LBS/HR	POUNDS PER HOUR





































ABBREVIATIONS

MEB	MIXING BOX
MER	MECHANICAL ROOM
MP	MEDIUM PRESSURE STEAM
MPS	CONDENSATE RETURN
MAX.	MEDIUM PRESSURE STEAM
MIN.	MAXIMUM
NOM.	NOMINAL
O/A	OUTDOOR AIR
P	PUMP
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PEF	PROPELLER TYPE EXHAUST FAN
PF	PRE-FILTER
PFW	PUMPED FEED WATER
PWG	PROPYLENE GLYCOL-WATER SOLUTION
PH	PREHEAT
PO	POWER OPERATED, OPPOSED
PRD	BLADE DAMPER
PRV	POWER OPERATED, PARALLEL
PRV	BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
R/A	RETURN AIR
RCU	RECIPROCATING CHILLER UNIT
RF	RETURN FAN
RH	REHEAT COIL
RH	RELATIVE HUMIDITY
RV	POWER TYPE ROOF VENTILATOR
S/A	SUPPLY AIR
SA	SOUND ATTENUATING UNIT
SCD	SMOKE DAMPER
SCR	SILICON CONTROLLED RECTIFIER
SD.	SMOKE DAMPER
Sp. Gr.	SPECIFIC GRAVITY
SH	STEAM HUMIDIFIER
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
TG	TOP GRILLE (WALL TYPE)
TR	TOP REGISTER (WALL TYPE)
TW	THRU WALL UNIT
UC	UNIT COOLER
UH	UNIT HEATER
UV	UPRAISED POWER TYPE ROOF VENTILATOR
UV	UNIT VENTILATOR
V	VALVE
VAX	VANE AXIAL FAN
VCC	VOLUMETRIC CONTROL CENTER
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VE	VARIABLE EXTRACTOR
VFD	VARIABLE FREQUENCY DRIVE
V1	VIBRATION ISOLATOR
VV	VARIBLE INLET VANES
VP	VACUUM PUMP
VR	VACUUM STEAM CONDENSATE PUMP
VSMC	VARIABLE SPEED MOTOR CONTROLLER
Wb	WET BULB TEMPERATURE
WEF	WALL TYPE EXHAUST FAN
WF	WATER FILTER
WFM	WATER FLOW MEASURING DEVICE











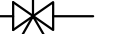






PIPING SYMBOLS AND ABBREVIATIONS

HP5	HIGH PRESSURE STEAM
MP5	MEDIUM PRESSURE STEAM
LP5	LOW PRESSURE STEAM
HPR	HIGH PRESSURE GRAVITY CONDENSATE RETURN
MPR	MEDIUM PRESSURE GRAVITY CONDENSATE RETURN
LPR	LOW PRESSURE GRAVITY CONDENSATE RETURN
FWPD	FEEDWATER PUMP DISCHARGE
FWPS	FEEDWATER PUMP SUCTION
CTPD	CONDENSATE TRANSFER PUMP DISCHARGE
CTPS	CONDENSATE TRANSFER PUMP SUCTION
-VR	VACUUM CONDENSATE RETURN
CPD	CONDENSATE PUMP DISCHARGE
-R	PUMP RECALCULATION
TC	TUBE CLEANER WATER SUPPLY
-BO	BOILES BLOWOFF
CBQ	CONTINUOUS BLOWDOWN
BWS	BOILER WATER SAMPLE
FWS	FEEDWATER SAMPLE (FROM DEAERATOR)
-CF	CHEMICAL FEED
-V	SANITARY VENT
-W	SANITARY WASTE
-A	COMPRESSED AIR
-D	DRAIN
-G	NATURAL GAS MAIN FUEL
G(I)	NATURAL GAS IGNITER FUEL
LPG(I)	LIQUEFIED PETROLEUM GAS IGNITER FUEL
FOS	FUEL OIL SUPPLY
-FOR	FUEL OIL RETURN
-	COLD WATER (CITY WATER)
-SW	SOFTENED WATER
-X	HOT WATER
-	PIPING TO BE REMOVED
HWS	HOT WATER HEATING SUPPLY
HWR	HOT WATER HEATING RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
HWR	HOT WATER RETURN

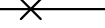
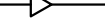
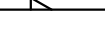
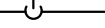
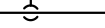
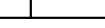
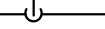
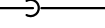
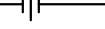

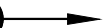


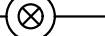
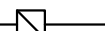



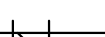


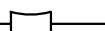
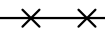
PIPING SYMBOLS

	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	TOP CONNECTION - 45° OR 90°
	BOTTOM CONNECTION - 45° OR 90°
	SIDE CONNECTION
	ELL TURNED UP
	ELL TURNED DOWN
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PRIMARY ELEMENT FOR FLOW METERING
	DIRECTION OF FLOW
	DIRECTION OF PIPE SLOPE DOWNWARD
	GATE VALVE - THREADED/FLANGED
	GLOBE VALVE - THREADED/FLANGED
	GATE VALVE WITH GLOBE-VALVED BYPASS
	CHECK VALVE
	ANGLE VALVE
	BALL VALVE
	PLUG VALVE
	BUTTERFLY VALVE
	CONTROL VALVE (CV) - MODULATING
	CONTROL VALVE (CV) - TWO-POSITION
	CONTROL VALVE (CV) - FLOAT-OPERATED
	PRESSURE REDUCING OR REGULATING VALVE (PRV)
	SAFETY VALVE (SV), RELIEF VALVE (RV), SAFETY RELIEF VALVE (SRV)
	STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
	BASKET STRAINER
	QUICK-COUPLE HOSE CONNECTOR
	INVERTED BUCKET STEAM TRAP ASSEMBLY (T)
	CLOSED-FLOAT-THERMOSTATIC STEAM TRAP ASSEMBLY (T)
	THERMOSTATIC STEAM TRAP (T)
	THERMOMETER
	PRESSURE GAGE (WITH SIPHON ON STEAM SERVICE)
	WATER LEVEL CONTROLLER
	FLOW METER






VALVE SYMBOLS

	GATE VALVE
	GLOBE VALVE
	GATE VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE
	ANGLE GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	BALANCING VALVE
	CIRCUIT SETTER
	STRAIGHT-THRU MODULATING CONTROL VALVE
	STRAIGHT-THRU TWO POSITION CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	AUTOMATIC FLOW CONTROL VALVE
	SAFETY OR PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE
	MANUAL AIR VENT
	TEST PLUG (PRESSURE/TEMPERATURE)

GENERAL SYMBOLS

	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
	ORIFICE UNION
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	LIMIT OF DEMOLITION
	BLAST THERMOSTATIC TRAP
	INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES
	FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES
	THERMOSTATIC TRAP
	STRAINER
	THERMOMETER
	PRESSURE GAGE
	WATER FLOW MEASURING DEVICE
	EXISTING PIPE TO BE REMOVED

SYMBOLS – MISCELLANEOUS COMMUNICATIONS SYSTEMS

DESCRIPTION	
	REMOTE DICTATING OUTLET MTD 1'-6" [457mm] A.F.F. UNLESS OTHERWISE NOTED.
	3-POLE TWIST-LOCK RECEPTACLE FOR MICROPHONE, MTD. 4'-6" [1372mm] A.F.F.
	INTERCOM STATION (REFER TO SPECS. FOR FUNCTIONAL OPERATION OF INSTRUMENT & TYPE REQUIRED)
	INTERCOM CONDUIT RUN. MINIMUM 3/4" [19mm] CONDUIT
	INTERCOM STAFF STATION.
NOTE: ALSO SEE VA BARRIER FREE DESIGN GUIDE PG-18-13.	

DUCTWORK SYMBOLS

POINT OF CHANGE IN DUCT CONSTRUCTION BY STATIC PRESSURE CLASS. THE NUMBER ASSIGNS PRESSURE CLASS (IN. OF WATER) WHICH WILL ACCOMMODATE MAXIMUM OPERATING PRESSURE IN THE DUCT SUBSECTION. THE SYMBOL CONTINUES THE ASSIGNMENT UNTIL THE DUCT TERMINATES OR ANOTHER SYMBOL APPEARS. A "N" SUPERScript INDICATES NEGATIVE PRESSURE.

STAINLESS STEEL DUCT

DOUBLE WALL CASING PANEL

MANUAL SPLITTER DAMPER

STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)

DUCT MOUNTED COIL (HOT WATER OR STEAM COIL)

DUCT MOUNTED COIL (ELECTRIC)

DUCTWORK SYMBOLS

	UP		DN	SUPPLY DUCT (UP & DOWN)
	UP		DN	EXHAUST DUCT (UP & DOWN)
				CEILING DIFFUSERS
				SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)
				EXHAUST OR RETURN CEILING REGISTER OR GRILLE
				EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE)
				EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE)
				VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF
				CONNECT NEW DUCT TO EXISTING DUCT
				INCLINED RISE, IN DIRECTION OF AIR FLOW
				INCLINED DROP, IN DIRECTION OF AIR FLOW
				LIMIT OF DEMOLITION

DUCTWORK SYMBOLS

FLEXIBLE CONNECTION

VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)

VANED ELBOW (SHORT RADIUS)

STANDARD RADIUS ELBOW

NEW DUCT (WIDTH × DEPTH)

EXISTING DUCT TO REMAIN

EXISTING DUCT TO BE REMOVED

LOUVER (LOUVER SPECIFIED IN ARCHITECTURAL SECTION.)

FLEXIBLE DUCTWORK (INSULATED)

DUCT WITH SOUND LINING

MANUAL VOLUME DAMPER

FIRE DAMPER

BACK DRAFT DAMPER

TERMINAL UNIT SYMBOLS

15.0MBH
CONVECTOR OR RADIATOR (RECESSED)
NUMBER INDICATES 1 MBH=THOUSAND BTUH.

15.0MBH
CONVECTOR OR RADIATOR (WALL HUNG)
NUMBER INDICATES 1 MBH=THOUSAND BTUH.

(A) FCU
FLOOR MOUNTED VERTICAL RECESSED FAN COIL
LETTER INDICATES UNIT SIZE.

(A) FCU
FLOOR MOUNTED VERTICAL CABINET FAN COIL
LETTER INDICATES UNIT SIZE.

(A) TWU
THRU WALL AIR CONDITIONING UNIT.
LETTER INDICATES UNIT SIZE.

(A) WU
WINDOW TYPE AIR CONDITIONING
UNIT. LETTER INDICATES UNIT SIZE.

(A) HP
FLOOR MOUNTED CABINET WATER TO AIR
REVERSE CYCLE HEAT PUMP. LETTER
INDICATES UNIT SIZE.

AIR CURTAIN


UNIT HEATER (HORIZONTAL)


UNIT HEATER (VERTICAL)


2'x2' RADIANT CEILING PANEL


2'x4' RADIANT CEILING PANEL

AIR TERMINAL SYMBOLS

 CONSTANT VOLUME TERMINAL UNIT WITH HEATING COIL. LETTER INDICATES SIZE.

 VARIABLE VOLUME TERMINAL UNIT WITH HEATING COIL. LETTER INDICATES SIZE.

 DOUBLE DUCT MIXING BOX. LETTER INDICATES UNIT SIZE.

 FAN POWERED VARIABLE VOLUME TERMINAL UNIT WITH HEATING COIL. LETTER INDICATES SIZE.

GENERAL NOTES

1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE SUSPENDED CEILING.
2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
3. ACCESS PANELS IN GYPBOARD CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
4. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
5. FOR TYPICAL STEAM, WATER AND REFRIGERANT PIPE CONNECTIONS TO EQUIPMENT SEE STANDARD EQUIPMENT DETAILS.
6. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
7. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
8. WALL TYPE EXHAUST REGISTERS NOTED AS "BR" ON DRAWINGS ARE TO BE INSTALLED WITH BOTTOM ELEVATION OF REGISTER AT 7" [178mm] ABOVE FINISHED FLOOR.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.

A
B
C
D
E
F
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
one eighth inch = one foot

SUPPLY AIR V.A.V. SCHEDULE									
TAG	AREA SERVED	MAKE & MODEL	SIZE	MAX. CFM	MIN. CFM	INLET SIZE	INLET SP	RE-HEAT COIL	
(VS-1.0)	RM, C-101 CORRIDOR	ENVIRO-TEC MODEL SDR	8"	450	300	8"	0.50"	(RH-1.0)	
(VS-1.02)	RM, C-102 CORRIDOR	ENVIRO-TEC MODEL SDR	8"	425	285	8"	0.50"	(RH-1.02)	
(VS-1.03A)	RM, C-103 CORRIDOR (WEST)	ENVIRO-TEC MODEL SDR	8"	450	300	8"	0.50"	(RH-1.03A)	
(VS-1.03B)	RM, C-103 CORRIDOR (EAST)	ENVIRO-TEC MODEL SDR	8"	300	200	6"	0.50"	(RH-1.03B)	
(VS-1.04)	RM, C-104 CORRIDOR	ENVIRO-TEC MODEL SDR	10"	600	400	10"	0.50"	(RH-1.04)	
(VS-1.05)	RM, C-105 & 156A CORRIDOR & COMM/TV	ENVIRO-TEC MODEL SDR	5"	200	140	5"	0.50"	(RH-1.05)	
(VS-1.06)	RM, C-106 CORRIDOR	ENVIRO-TEC MODEL SDR	10"	625	415	10"	0.50"	(RH-1.06)	
(VS-1.07)	RM, C-107 & C-108 CORRIDORS	ENVIRO-TEC MODEL SDR	10"	625	415	10"	0.50"	(RH-1.07)	
(VS-1.00)	RM, 100 FAMILY WAITING/RECEPTION	ENVIRO-TEC MODEL SDR	8"	375	250	8"	0.50"	(RH-1.00)	
(VS-1.02)	RM, 102 DAYROOM	ENVIRO-TEC MODEL SDR	5"	200	200	5"	0.50"	(RH-1.02)	
-	RM, 110 ELECTRICAL	ENVIRO-TEC MODEL SDR	-	-	-	-	-		
(VS-1.14)	RM, 114 & 115 OFFICE, IV & RT STORAGE	ENVIRO-TEC MODEL SDR	5"	185	185	5"	0.50"	(RH-1.14)	
-	RM, 130 GAS BOTTLE STORAGE	-	-	-	-	-	-		
(VS-1.31)	RM, 131 TEAM 4	ENVIRO-TEC MODEL SDR	5"	100	50	5"	0.50"	(RH-1.31)	
-	RMS, 136, 162, 163, & 165 TOILETS, KITCHENETTE & STOR.	-	-	-	-	-	-		
(VS-1.39)	RM, 139 NOURISHMENT	ENVIRO-TEC MODEL SDR	4"	50	50	4"	0.50"	(RH-1.39)	
(VS-1.40)	RM, 140 TEAM STATION	ENVIRO-TEC MODEL SDR	5"	160	80	5"	0.50"	(RH-1.40)	
(VS-1.41)	RM, 141 GENERAL PURPOSE WORKROOM	ENVIRO-TEC MODEL SDR	6"	200	100	6"	0.50"	(RH-1.41)	
(VS-1.40A)	RM, 141A MEDICATION	ENVIRO-TEC MODEL SDR	4"	125	65	4"	0.50"	(RH-1.40A)	
(VS-1.42)	RM, 142 TUB ROOM	ENVIRO-TEC MODEL SDR	5"	155	155	5"	0.50"	(RH-1.42)	
(VS-1.43)	RM, 143 EXAM ROOM	ENVIRO-TEC MODEL SDR	4"	125	125	4"	0.50"	(RH-1.43)	
-	RM, 144 ELECTRICAL	-	-	-	-	-	-		
(VS-1.45)	RM, 145 TEAM STATION	ENVIRO-TEC MODEL SDR	6"	200	200	6"	0.50"	(RH-1.45)	
(VS-1.46)	RM, 146 TEAM 2	ENVIRO-TEC MODEL SDR	4"	100	50	4"	0.50"	(RH-1.46)	
(VS-1.47)	RM, 147 STAFF MULTI-PURPOSE ROOM	ENVIRO-TEC MODEL SDR	6"	250	125	6"	0.50"	(RH-1.47)	
-	RM, 148 SOILED HOLDING	-	-	-	-	-	-		
(VS-1.49)	RM, 149 TEAM 1	ENVIRO-TEC MODEL SDR	4"	100	50	4"	0.50"	(RH-1.49)	
(VS-1.50)	RM, 150 OFFICE	ENVIRO-TEC MODEL SDR	4"	75	75	4"	0.50"	(RH-1.50)	
(VS-1.51)	RM, 151 CLEAN STERILE STORAGE	ENVIRO-TEC MODEL SDR	6"	220	220	6"	0.50"	(RH-1.51)	
(VS-1.52)	RM, 152 GENERAL PURPOSE WORK ROOM	ENVIRO-TEC MODEL SDR	5"	150	75	5"	0.50"	(RH-1.52)	
(VS-1.53)	RMS, 153 & 154, EQUIP. STOR. & NOURISHMENT	ENVIRO-TEC MODEL SDR	5"	160	160	5"	0.50"	(RH-1.53)	
(VS-1.55)	RM, 155 GENERAL PURPOSE WORKROOM	ENVIRO-TEC MODEL SDR	6"	200	100	6"	0.50"	(RH-1.55)	
-	RMS, 156 & 157 HOUSE KEEPING & ELECTRICAL	-	-	-	-	-	-		
(VS-1.58)	RM, 158 T.R. ROOM	ENVIRO-TEC MODEL SDR	8"	500	100	8"	0.50"		
(VS-1.59)	RM, 159 CONSULTATION	ENVIRO-TEC MODEL SDR	4"	80	80	4"	0.50"	(RH-1.59)	
(VS-1.61)	RM, 161 TEAM STATION	ENVIRO-TEC MODEL SDR	6"	200	100	6"	0.50"	(RH-1.61)	
(VS-1.64)	RMS, 164 & 165 OFFICE & MEDICATION	ENVIRO-TEC MODEL SDR	5"	165	110	5"	0.50"	(RH-1.64)	
(VS-1.66)	RM, 166 ON-CALL	ENVIRO-TEC MODEL SDR	4"	75	75	4"	0.50"	(RH-1.66)	
-	RMS, 166A & 169 ON-CALL BATHROOM & STAFF TOILET	-	-	-	-	-	-		
(VS-1.67)	RM, 167 TEAM 3	ENVIRO-TEC MODEL SDR	4"	100	50	4"	0.50"	(RH-1.67)	
(VS-1.68)	RM, 168 TEAM STATION	ENVIRO-TEC MODEL SDR	5"	175	120	5"	0.50"	(RH-1.68)	
(VS-1.11)	LINK TO BUILDING #1	ENVIRO-TEC MODEL SDR	6"	280	280	6"	0.50"	(RH-1.11)	
(VS-1.12B)	LINK TO BUILDING #2B	ENVIRO-TEC MODEL SDR	6"	265	265	6"	0.50"	(RH-1.12B)	
NOTES: 1. V.A.V. BOXES SHALL BE DOUBLE WALL TYPE WITH INSULATION ENCAPSULATED WITH GALVANIZED SHEET METAL. 2. FLEXIBLE DUCT IS NOT PERMITTED ON INLET AND/OR OUTLET OF SUPPLY AIR VAV BOXES. 3. PROVIDE ALL UNITS SET UP FOR FIELD INSTALLED DDC CONTROLLER/ACTUATOR.									

REHEAT COIL SCHEDULE											
TAG	SIZE	V.A.V. ZONE	AIR FLOW	E.A.T.	L.A.T.	E.W.T.	GPM	RATING	MAX. A.P.D.	NOTES:	
(RH-1.0)	14x12	VS-1.01	450	55° F	85° F	170° F	1.5	14.6 MBH	0.12" W.C.	--	
(RH-1.02)	14x12	VS-1.02	425	55° F	85° F	170° F	1.5	13.8 MBH	0.12" W.C.	--	
(RH-1.03A)	14x12	VS-1.03A	450	55° F	85° F	170° F	1.5	14.6 MBH	0.12" W.C.	--	
(RH-1.03B)	12x9	VS-1.03B	300	55° F	85° F	170° F	1.0	9.7 MBH	0.12" W.C.	--	
(RH-1.04)	18x12	VS-1.04	600	55° F	85° F	170° F	2.0	19.4 MBH	0.12" W.C.	--	
(RH-1.05)	9x9	VS-1.05	200	55° F	85° F	170° F	0.75	6.5 MBH	0.12" W.C.	--	
(RH-1.06)	18x12	VS-1.06	625	55° F	85° F	170° F	2.25	20.3 MBH	0.12" W.C.	--	
(RH-1.07)	18x12	VS-1.07	625	55° F	85° F	170° F	2.25	20.3 MBH	0.12" W.C.	--	
(RH-1.00)	14x12	VS-1.01	375	55° F	85° F	170° F	1.25	12.2 MBH	0.12" W.C.	--	
(RH-1.02)	14x12	VS-1.02	375	55° F	85° F	170° F	1.25	12.2 MBH	0.12" W.C.	--	
-	-	-	-	-	-	-	-	-	-	--	
(RH-1.14)	9x6	VS-1.14	185	55° F	85° F	170° F	0.75	6.0 MBH	0.12" W.C.	--	
-	-	-	-	-	-	-	-	-	-	--	
(RH-1.31)	9x6	VS-1.31	100	55° F	85° F	170° F	0.5	3.2 MBH	0.12" W.C.	--	
-	-	-	-	-	-	-	-	-	-	--	
(RH-1.39)	6x6	VS-1.39	50	55° F	85° F	170° F	0.5	1.6 MBH	0.12" W.C.	--	
(RH-1.40)	9x6	VS-1.40	160	55° F	85° F	170° F	0.5	5.2 MBH	0.12" W.C.	--	
(RH-1.41)	9x9	VS-1.41	200	55° F	85° F	170° F	0.75	6.5 MBH	0.12" W.C.	--	
(RH-1.40A)	9x6	VS-1.40A	125	55° F	85° F	170° F	0.5	4.1 MBH	0.12" W.C.	--	
(RH-1.42)	9x6	VS-1.42	155	55° F	85° F	170° F	0.5	5.0 MBH	0.12" W.C.	--	
(RH-1.43)	9x6	VS-1.43	125	55° F	85° F	170° F	0.5	4.1 MBH	0.12" W.C.	--	
-	-	-	-	-	-	-	-	-	-	--	
(RH-1.45)	9x6	VS-1.45	200	55° F	85° F	170° F	1.0	6.5 MBH	0.12" W.C.	--	
(RH-1.46)	9x6	VS-1.46	100	55° F	85° F	170° F	0.5	3.2 MBH	0.12" W.C.	--	
(RH-1.47)	12x9	VS-1.47	250	55° F	85° F	170° F	1.0	8.1 MBH	0.12" W.C.	--	
-	-	-	-	-	-	-	-	-	-	--	
(RH-1.49)	9x6	VS-1.49	100	55° F	85° F	170° F	0.5	3.2 MBH	0.12" W.C.	--	
(RH-1.50)	6x6	VS-1.50	75	55° F	85° F	170° F	0.5	2.4 MBH	0.12" W.C.	--	
(RH-1.51)	9x9	VS-1.51	220	55° F	85° F	170° F	0.75	7.1 MBH	0.12" W.C.	--	
(RH-1.52)	9x6	VS-1.52	150	55° F	85° F	170° F	0.5	4.9 MBH	0.12" W.C.	--	
(RH-1.53)	9x6	VS-1.53	120	55° F	85° F	170° F	0.5	3.9 MBH	0.12" W.C.	--	
(RH-1.55)	9x9	VS-1.55	200	55° F	85° F	170° F	0.75	6.5 MBH	0.12" W.C.	--	
-	-	-	-	-	-	-	-	-	-	--	
-	-	-	-	-	-	-	-	-	-	--	
(RH-1.59)	6x6	VS-1.59	80	55° F	85° F	170° F	0.5	3.5 MBH	0.12" W.C.	--	
(RH-1.61)	9x6	VS-1.60	200	55° F	85° F	170° F	0.75	6.5 MBH	0.12" W.C.	--	
(RH-1.64)	9x6	VS-1.64	165	55° F	85° F	170° F	0.75	5.3 MBH	0.12" W.C.	--	
(RH-1.66)	6x6	VS-1.66	75	55° F	85° F	170° F	0.5	2.4 MBH	0.12" W.C.	--	
-	-	-	-	-	-	-	-	-	-	--	
(RH-1.67)	9x6	VS-1.67	100	55° F	85° F	170° F	0.5	3.2 MBH	0.12" W.C.	--	
(RH-1.68)	9x6	VS-1.68	175	55° F	85° F	170° F	0.75	5.7 MBH	0.12" W.C.	--	
(RH-1.11)	12x9	VS-1.11	280	55° F	85° F	170° F	1.0	9.1 MBH	0.12" W.C.	--	
(RH-1.12B)	12x9	VS-1.12B	265	55° F	85° F	170° F	1.0	8.6 MBH	0.12" W.C.	--	
REMARKS: 1. PROVIDE ACCESS DOOR IN AIR DUCT UPSTREAM AND DOWN STREAM OF REHEAT COIL. 2. EACH ACCESS DOOR SHALL BE DOUBLE WALL, INSULATED, HINGED WITH CAM LOCKS. 3. PROVIDE PIPING CONNECTIONS TO RE-HEAT COIL AS PER DETAIL DRAWINGS. 4. PROVIDE ACCESS PANELS AS PER DETAIL DRAWINGS. 5. INSTALL RE-HEAT COIL IN AIR DUCT AS PER DETAIL DRAWINGS. 6. SEAL RE-HEAT COIL DUCT CONNECTIONS WITH AN APPROVED SEALANT. 7. RE-HEAT COIL AIR LEAKAGE SHALL NOT EXCEED 1.0% OF BRANCH AIR FLOW AT 4.0"W.C. 8. COILS SHALL BE FLANGED TYPE, INSTALLED WITH THE "DUCT MATE" SYSTEM.											

RETURN/EXHAUST AIR V.A.V. SCHEDULE									
TAG	AREA SERVED	MAKE & MODEL	SIZE	MAX. CFM	MIN. CFM	INLET SIZE	INLET SP	SUPPLY VAV TRACKING	
(VR-1.0)	RM, C-101 CORRIDOR	ENVIRO-TEC MODEL SDX	6"	225	150	6"	0.50"	(VS-1.0)	
(VR-1.02)	RM, C-102 CORRIDOR	ENVIRO-TEC MODEL SDX	6"	250	160	6"	0.50"	(VS-1.02)	
(VR-1.03A)	RM, C-103 CORRIDOR (WEST)	ENVIRO-TEC MODEL SDX	6"	300	200	6"	0.50"	(VS-1.03A)	
(VR-1.03B)	RM, C-103 CORRIDOR (EAST)	ENVIRO-TEC MODEL SDX	8"	380	255	8"	0.50"	(VS-1.03B)	
(VR-1.04)	RM, C-104 CORRIDOR	ENVIRO-TEC MODEL SDX	6"	250	160	6"	0.50"	(VS-1.04)	
(VR-1.05)	RM, C-105 & 156A CORRIDOR & COMM/TV	ENVIRO-TEC MODEL SDX	6"	300	200	6"	0.50"	(VS-1.05)	
(VR-1.06)	RM, C-106 CORRIDOR	ENVIRO-TEC MODEL SDX	8"	475	320	8"	0.50"	(VS-1.06)	
(VR-1.07)	RM, C-107 & C-108 CORRIDORS	ENVIRO-TEC MODEL SDX	8"	430	290	8"	0.50"	(VS-1.07) (VS-1.08)	
(VE-1.00)	RM, 100 FAMILY WAITING/RECEPTION	ENVIRO-TEC MODEL SDX	8"	440	295	8"	0.50"	(VS-1.00)	
(VE-1.02)	RM, 102 DAYROOM	ENVIRO-TEC MODEL SDX	6"	200	200	6"	0.50"	(VS-1.02)	
(VE-1.10)	RM, 110 ELECTRICAL	ENVIRO-TEC MODEL SDX	4"	100	100	4"	0.50"	-	
(VR-1.14)	RM, 114 & 115 OFFICE, IV & RT STORAGE	ENVIRO-TEC MODEL SDX	5"	185	185	5"	0.50"	(VS-1.14)	
(VE-1.30)	RM, 130 GAS BOTTLE STORAGE	ENVIRO-TEC MODEL SDX	8"	325	325	8"	0.50"	-	
(VR-1.31)	RM, 131 TEAM 4	ENVIRO-TEC MODEL SDX	4"	100	50	4"	0.50"	(VS-1.31)	
(VE-1.38)	RMS, TLT, 138 & KITCHENETTE	ENVIRO-TEC MODEL SDX	5"	150	150	5"	0.50"	-	
(VE-1.39)	RM, 139 NOURISHMENT	ENVIRO-TEC MODEL SDX	4"	75	75	4"	0.50"	(VS-1.39)	
(VR-1.40)	RM, 140 TEAM STATION	ENVIRO-TEC MODEL SDX	6"	200	100	6"	0.50"	(VS-1.40)	
(VR-1.41)	RM, 141 GENERAL PURPOSE WORKROOM	ENVIRO-TEC MODEL SDX	6"	200	100	6"	0.50"	(VS-1.41)	
(VE-1.40A)	RM, 141A MEDICATION	ENVIRO-TEC MODEL SDX	6"	200	50	6"	0.50"	(VS-1.40A)	
(VE-1.42)	RM, 142 TUB ROOM	ENVIRO-TEC MODEL SDX	5"	180	180	5"	0.50"	(VS-1.42)	
(VE-1.43)	RM, 143 EXAM ROOM	ENVIRO-TEC MODEL SDX	4"	125	125	4"	0.50"	(VS-1.43)	
(VE-1.44)	RM, 144 ELECTRICAL	ENVIRO-TEC MODEL SDX	4"	100	100	4"	0.50"	-	
(VR-1.45)	RM, 145 TEAM STATION	ENVIRO-TEC MODEL SDX	6"	200	200	6"	0.50"	(VS-1.45)	
(VR-1.46)	RM, 146 TEAM 2	ENVIRO-TEC MODEL SDX	4"	100	50	4"	0.50"	(VS-1.46)	
(VR-1.47)	RM, 147 STAFF MULTI-PURPOSE ROOM	ENVIRO-TEC MODEL SDX	6"	200	100	6"	0.50"	(VS-1.47)	
(VE-1.48)	RM, 148 SOILED HOLDING	ENVIRO-TEC MODEL SDX	6"	250	250	6"	0.50"	-	
(VR-1.49)	RM, 149 TEAM 1	ENVIRO-TEC MODEL SDX	4"	100	50	4"	0.50"	(VS-1.49)	
(VR-1.50)	RM, 150 OFFICE	ENVIRO-TEC MODEL SDX	4"	75	75	4"	0.50"	(VS-1.50)	
(VR-1.51)	RM, 151 CLEAN STERILE STORAGE	ENVIRO-TEC MODEL SDX	5"	190	190	5"	0.50"	(VS-1.51)	
(VR-1.52)	RM, 152 GENERAL PURPOSE WORK ROOM	ENVIRO-TEC MODEL SDX	5"	150	75	5"	0.50"	(VS-1.52)	
(VE-1.53)	RMS, 153 & 154, EQUIP. STOR. & NOURISHMENT	ENVIRO-TEC MODEL SDX	5"	185	185	5"	0.50"	(VS-1.53)	
(VR-1.55)	RM, 155 GENERAL PURPOSE WORKROOM	ENVIRO-TEC MODEL SDX	6"	200	100	6"	0.50"	(VS-1.55)	
(VE-1.56)	RMS, 156 & 157 HOUSE KEEPING & ELECTRICAL	ENVIRO-TEC MODEL SDX	5"	200	200	5"	0.50"	-	
(VR-1.58)	RM, 158 T.R. ROOM	ENVIRO-TEC MODEL SDX	8"	500	50	8"	0.50"	(VS-1.58)	
(VR-1.59)	RM, 159 CONSULTATION	ENVIRO-TEC MODEL SDX	4"	80	80	4"	0.50"	(VS-1.59)	
(VE-1.63)	TOILET RMS, 163, 162 & STORAGE 160	ENVIRO-TEC MODEL SDX	5"	225	225	5"	0.50"	-	
(VR-1.64)	RMS, 164 & 165 OFFICE & MEDICATION	ENVIRO-TEC MODEL SDX	5"	165	110	5"	0.50"	(VS-1.64)	
(-)	RM, 166 ON-CALL	-	-	-	-	-	-	-	
(VE-1.66A)	RMS, 166A & 169 ON-CALL BATHROOM & STAFF TOILET	ENVIRO-TEC MODEL SDX	5"	150	150	5"	0.50"	-	
(VR-1.67)	RM, 167 TEAM 3	ENVIRO-TEC MODEL SDX	4"	100	50	4"	0.50"	(VS-1.67)	
(VR-1.68)	RM, 168 TEAM STATION	ENVIRO-TEC MODEL SDX	5"	175	120	5"	0.50"	(VS-1.68)	
(-)	LINK TO BUILDING #1	-	-	-	-	-	-	-	
(VR-1.128)	LINK TO BUILDING #2B	ENVIRO-TEC MODEL SDX	6"	265	265	6"	0.50"	(VS-1.128)	
NOTES:									
1. RETURN AND EXHAUST V.A.V. BOXES SHALL BE CONFIGURED WITH EXTENDED HOUSING FOR RETURN/EXHAUST SERVICE WITH RECTANGULAR INLET AND OUTLET.									
2. V.A.V. BOXES SHALL BE DOUBLE WALL TYPE WITH INSULATION ENCAPSULATED WITH GALVANIZED SHEET METAL.									
3. FLEXIBLE DUCT IS NOT PERMITTED ON INLET AND/OR OUTLET OF RETURN AIR VAV BOXES.									
3. PROVIDE ALL UNITS SET UP FOR FIELD INSTALLED DDC CONTROLLER/ACTUATOR.									

SUPPLY AIR V.A.V. SCHEDULE								
TAG	AREA SERVED	MAKE & MODEL	SIZE	MAX. CFM	MIN. CFM	INLET SIZE	INLET SP.	RE-HEAT COIL
(-)	-	-	-	-	-	-	-	(-)
(VS-2.0)	RM. 101 SEMI-PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	8"	325	275	8"ø	0.50"	(RH-2.0)
(VS-2.0)	RM. 103 BARIATRIC ISOLATION PATIENT	SIEMENS INDUST. AVCI08LHASOE0ZZ	8"	350	300	8"ø	0.50"	(RH-2.0)
(VS-2.0)	RM. 104 BARIATRIC PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.0)
(VS-2.0)	RM. 105 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.0)
(VS-2.0)	RM. 106 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.0)
(VS-2.0)	RM. 107 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.0)
(VS-2.0)	RM. 108 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.0)
(VS-2.0)	RM. 109 AIRBORNE ISOLATION PATIENT	SIEMENS INDUST. AVCI08LHASOE0ZZ	8"	240	210	8"ø	0.50"	(RH-2.0)
(VS-2.1)	RM. 111 AIRBORNE ISOLATION PATIENT	SIEMENS INDUST. AVCI08LHASOE0ZZ	8"	240	210	8"ø	0.50"	(RH-2.1)
(VS-2.1)	RM. 112 SEMI-PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	8"	325	275	8"ø	0.50"	(RH-2.1)
(VS-2.1)	RM. 113 SEMI-PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	8"	325	275	8"ø	0.50"	(RH-2.1)
(-)	-	-	-	-	-	-	-	(-)
(VS-2.1)	RM. 116 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	200	175	6"ø	0.50"	(RH-2.1)
(VS-2.1)	RM. 117 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.1)
(VS-2.1)	RM. 118 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.1)
(VS-2.1)	RM. 119 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.1)
(VS-2.2)	RM. 120 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.2)
(VS-2.2)	RM. 121 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.2)
(VS-2.2)	RM. 122 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	250	215	6"ø	0.50"	(RH-2.2)
(VS-2.2)	RM. 123 BARIATRIC PATIENT	ENVIRO-TEC MODEL SDR	6"	200	175	6"ø	0.50"	(RH-2.2)
(VS-2.2)	RM. 124 BARIATRIC PATIENT	ENVIRO-TEC MODEL SDR	6"	200	175	6"ø	0.50"	(RH-2.2)
(VS-2.2)	RM. 125 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.2)
(VS-2.2)	RM. 126 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.2)
(VS-2.2)	RM. 127 SEMI-PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	325	275	6"ø	0.50"	(RH-2.2)
(VS-2.2)	RM. 128 SEMI-PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	325	275	6"ø	0.50"	(RH-2.2)
(VS-2.2)	RM. 129 AIR BORNE ISOLATION PATIENT	SIEMENS INDUST. AVCI08LHASOE0ZZ	8"	335	290	8"ø	0.50"	(RH-2.2)
(VS-2.3)	RM. 132 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.3)
(VS-2.3)	RM. 133 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.3)
(VS-2.3)	RM. 134 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	230	200	6"ø	0.50"	(RH-2.3)
(VS-2.3)	RM. 135 SEMI-PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	325	275	6"ø	0.50"	(RH-2.3)
(VS-2.3)	RM. 136 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	245	210	6"ø	0.50"	(RH-2.3)
(VS-2.3)	RM. 137 PRIVATE PATIENT	ENVIRO-TEC MODEL SDR	6"	245	210	6"ø	0.50"	(RH-2.3)
NOTES:								
1. V.A.V. BOXES SHALL BE DOUBLE WALL TYPE WITH INSULATION ENCAPSULATED WITH GALVANIZED SHEET METAL.								
2. FLEXIBLE DUCT IS NOT PERMITTED ON INLET AND/OR OUTLET OF SUPPLY AIR VAV BOXES.								
3. PROVIDE ALL UNITS SET UP FOR FIELD INSTALLED DDC CONTROLLER/ACTUATOR.								

REPEAT COIL SCHEDULE										
TAG	SIZE	V.A.V. ZONE	AIR FLOW	E.A.T.	L.A.T.	E.W.T.	GPM	RATING	MAX. A.P.D.	NOTES:
(-)	-	-	-	-	-	-	-	-	-	--
(RH-2.0)	12x9	VS-2.2	275	55' F	85' F	170' F	1.0	8.9 MBH	0.12" W.C.	--
(RH-2.0)	12x9	VS-2.3	300	55' F	85' F	170' F	1.0	9.7 MBH	0.12" W.C.	--
(RH-2.0)	12x6	VS-2.4	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.0)	12x6	VS-2.5	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.0)	12x6	VS-2.6	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.0)	12x6	VS-2.7	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.0)	12x6	VS-2.8	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.0)	12x6	VS-2.9	210	55' F	85' F	170' F	0.75	6.8 MBH	0.12" W.C.	--
(RH-2.1)	12x6	VS-2.11	210	55' F	85' F	170' F	0.75	6.8 MBH	0.12" W.C.	--
(RH-2.1)	12x9	VS-2.12	275	55' F	85' F	170' F	1.0	8.9 MBH	0.12" W.C.	--
(RH-2.1)	12x9	VS-2.13	275	55' F	85' F	170' F	1.0	8.9 MBH	0.12" W.C.	--
(-)	-	-	-	-	-	-	-	-	-	--
(RH-2.1)	12x6	VS-2.16	175	55' F	85' F	170' F	0.75	5.7 MBH	0.12" W.C.	--
(RH-2.1)	12x6	VS-2.17	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.1)	12x6	VS-2.18	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.1)	12x6	VS-2.19	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.2)	12x6	VS-2.20	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.2)	12x6	VS-2.21	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.2)	12x6	VS-2.22	215	55' F	85' F	170' F	0.75	7.0 MBH	0.12" W.C.	--
(RH-2.2)	12x6	VS-2.23	175	55' F	85' F	170' F	0.75	5.7 MBH	0.12" W.C.	--
(RH-2.2)	12x6	VS-2.24	175	55' F	85' F	170' F	0.75	5.7 MBH	0.12" W.C.	--
(RH-2.2)	12x6	VS-2.25	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.2)	12x6	VS-2.26	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.2)	12x9	VS-2.27	275	55' F	85' F	170' F	1.0	8.9 MBH	0.12" W.C.	--
(RH-2.2)	12x9	VS-2.28	275	55' F	85' F	170' F	1.0	8.9 MBH	0.12" W.C.	--
(RH-2.2)	12x9	VS-2.29	290	55' F	85' F	170' F	1.0	9.4 MBH	0.12" W.C.	--
(RH-2.3)	12x6	VS-2.32	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.3)	12x6	VS-2.33	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.3)	12x6	VS-2.34	200	55' F	85' F	170' F	0.75	6.5 MBH	0.12" W.C.	--
(RH-2.3)	12x9	VS-2.35	275	55' F	85' F	170' F	1.0	8.9 MBH	0.12" W.C.	--
(RH-2.3)	12x6	VS-2.36	210	55' F	85' F	170' F	0.75	6.8 MBH	0.12" W.C.	--
(RH-2.3)	12x6	VS-2.37	210	55' F	85' F	170' F	0.75	6.8 MBH	0.12" W.C.	--
REMARKS:										
1. PROVIDE ACCESS DOOR IN AIR DUCT UPSTREAM AND DOWN STREAM OF REPEAT COIL. 2. EACH ACCESS DOOR SHALL BE DOUBLE WALL, INSULATED, HINGED WITH CAM LOCKS. 3. PROVIDE PIPING CONNECTIONS TO RE-HEAT COIL AS PER DETAIL DRAWINGS. 4. PROVIDE ACCESS PANELS AS PER DETAIL DRAWINGS. 5. INSTALL RE-HEAT COIL IN AIR DUCT AS PER DETAIL DRAWINGS. 6. SEAL RE-HEAT COIL DUCT CONNECTIONS WITH AN APPROVED SEALANT. 7. RE-HEAT COIL AIR LEAKAGE SHALL NOT EXCEED 1.0% OF BRANCH AIR FLOW AT 4.0"W.C. 8. COILS SHALL BE FLANGED TYPE, INSTALLED WITH THE "DUCT MATE" SYSTEM.										

RETURN/EXHAUST AIR V.A.V. SCHEDULE								
TAG	AREA SERVED	MAKE & MODEL	SIZE	MAX. CFM	MIN. CFM	INLET SIZE	INLET SP.	SUPPLY VAV TRACKING
(-)	-	-	-	-	-	-	-	(-)
(VE-2.0)	RM. 101 SEMI-PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	8"	325	275	8"	0.50"	(VS-2.0)
(VE-3.0)	RM. 103 BARIATRIC ISOLATION PATIENT	SIEMENS INDUST. AVCI08LHASOE0ZZ	10"	525	475	10"	0.50"	(VS-2.3)
(VE-2.04)	RM. 104 BARIATRIC PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"	0.50"	(VS-2.04)
(VE-2.06)	RM. 105 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"	0.50"	(VS-2.06)
(VE-2.06)	RM. 106 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"	0.50"	(VS-2.06)
(VE-2.07)	RM. 107 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"	0.50"	(VS-2.07)
(VE-2.08)	RM. 108 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"	0.50"	(VS-2.08)
(VE-3.09)	RM. 109 AIRBORNE ISOLATION PATIENT	SIEMENS INDUST. AVCI08LHASOE0ZZ	8"	410	360	8"	0.50"	(VS-2.09)
(VE-3.1)	RM. 111 AIRBORNE ISOLATION PATIENT	SIEMENS INDUST. AVCI08LHASOE0ZZ	8"	410	360	8"	0.50"	(VS-2.1)
(VE-2.12)	RM. 112 SEMI-PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	8"	325	275	8"	0.50"	(VS-2.12)
(VE-2.13)	RM. 113 SEMI-PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	8"	325	275	8"	0.50"	(VS-2.13)
(-)	-	-	-	-	-	-	-	(-)
(VE-2.16)	RM. 116 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	200	175	6"		(VS-2.16)
(VE-2.17)	RM. 117 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"	0.50"	(VS-2.17)
(VE-2.18)	RM. 118 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"		(VS-2.18)
(VE-2.19)	RM. 119 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"		(VS-2.19)
(VE-2.20)	RM. 120 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"	0.50"	(VS-2.20)
(VE-2.21)	RM. 121 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	200	200	6"	0.50"	(VS-2.21)
(VE-2.22)	RM. 122 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	250	215	6"	0.50"	(VS-2.22)
(VE-2.23)	RM. 123 BARIATRIC PATIENT	ENVIRO-TEC MODEL SDX	6"	200	175	6"	0.50"	(VS-2.23)
(VE-2.24)	RM. 124 BARIATRIC PATIENT	ENVIRO-TEC MODEL SDX	6"	200	175	6"	0.50"	(VS-2.24)
(VE-2.26)	RM. 125 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"	0.50"	(VS-2.26)
(VE-2.26)	RM. 126 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"	0.50"	(VS-2.26)
(VE-2.27)	RM. 127 SEMI-PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	325	275	6"	0.50"	(VS-2.27)
(VE-2.28)	RM. 128 SEMI-PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	325	275	6"	0.50"	(VS-2.28)
(VE-3.2)	RM. 129 AIR BORNE ISOLATION PATIENT	SIEMENS INDUST. AVCI08LHASOE0ZZ	8"	525	475	8"	0.50"	(VS-2.29)
(VE-2.33)	RM. 132 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"	0.50"	(VS-2.33)
(VE-2.33)	RM. 133 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"	0.50"	(VS-2.33)
(VE-2.34)	RM. 134 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	230	200	6"	0.50"	(VS-2.34)
(VE-2.36)	RM. 135 SEMI-PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	325	275	6"	0.50"	(VS-2.36)
(VE-2.37)	RM. 136 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	245	210	6"	0.50"	(VS-2.37)
(VE-2.37)	RM. 137 PRIVATE PATIENT	ENVIRO-TEC MODEL SDX	6"	245	210	6"	0.50"	(VS-2.37)
(VE-3.10)	EXISTING AIR BORNE ISOLATION PATIENT ROOM	SIEMENS INDUST. AVCI08LHASOE0ZZ	8"	350	350	8"	0.50"	
NOTES:								
1. RETURN AND EXHAUST V.A.V. BOXES SHALL BE CONFIGURED WITH EXTENDED HOUSING FOR RETURN/EXHAUST SERVICE WITH RECTANGULAR INLET AND OUTLET.								
2. V.A.V. BOXES SHALL BE DOUBLE WALL TYPE WITH INSULATION ENCAPSULATED WITH GALVANIZED SHEET METAL.								
3. FLEXIBLE DUCT IS NOT PERMITTED ON INLET AND/OR OUTLET OF RETURN AIR VAV BOXES.								
3. PROVIDE ALL UNITS SET UP FOR FIELD INSTALLED DDC CONTROLLER/ACTUATOR.								

SUPPLY AIR V.A.V. SCHEDULE								
TAG	AREA SERVED	MAKE & MODEL	SIZE	MAX. CFM	MIN. CFM	INLET SIZE	INLET SP	RE-HEAT COIL
(VS-0.0)	RM. G-71 AIRBORNE ISOLATION PATIENT ROOM	SIEMENS INDUST. AVCI08LHAE0CZZ	8"	255	255	8"ø	0.50"	(RH-0.0)
(VS-0.02)	RM. G-78 AIRBORNE ISOLATION PATIENT ROOM	SIEMENS INDUST. AVCI08LHAE0CZZ	8"	255	255	8"ø	0.50"	(RH-0.02)
(VS-0.04)	TEAM STATION G-81	ENVIRO-TEC MODEL SDR	6"	200	200	6"ø	0.50"	(RH-0.03)
(VS-0.04)	MEDS/NOURISH G-81A	ENVIRO-TEC MODEL SDR	5"	150	150	5"ø	0.50"	(RH-0.04)
(VS-0.05)	MULTI-PURPOSE G-82	ENVIRO-TEC MODEL SDR	6"	350	350	6"ø	0.50"	(RH-0.05)
(VS-0.06)	CLEAN SUPPLY G-81B	ENVIRO-TEC MODEL SDR	5"	150	150	5"ø	0.50"	(RH-0.06)
(VS-0.07)	CORRIDOR EAST	ENVIRO-TEC MODEL SDR	6"	350	350	6"ø	0.50"	(RH-0.07)
(VS-0.08)	PATIENT BEDROOM G-83/84	ENVIRO-TEC MODEL SDR	6"	250	250	6"ø	0.50"	(RH-0.08)
(VS-0.09)	PATIENT BEDROOM G-85/86	ENVIRO-TEC MODEL SDR	6"	250	250	6"ø	0.50"	(RH-0.09)
(VS-0.10)	CORRIDOR WEST & HC TLT. SHOWER ROOM G-77	ENVIRO-TEC MODEL SDR	8"	450	450	8"ø	0.50"	(RH-0.10)
NOTES:								
1. V.A.V. BOXES SHALL BE DOUBLE WALL TYPE WITH INSULATION ENCAPSULATED WITH GALVANIZED SHEET METAL.								
2. FLEXIBLE DUCT IS NOT PERMITTED ON INLET AND/OR OUTLET OF SUPPLY AIR VAV BOXES.								
3. PROVIDE ALL UNITS SET UP FOR FIELD INSTALLED DDC CONTROLLER/ACTUATOR.								

F

one eighth inch = one foot

0 4 8 16

three eighths inch = one foot

0 4 8

one quarter inch = one foot

0 4 8

one half inch = one foot

0 4

three quarters inch = one foot

0 6

one inch = one foot

0 6

C

one inch = one foot

0 6

D

three quarters inch = one foot

0 6

2

E

one half inch = one foot

0 4

4

C

one inch = one foot

0 6

2

D

three quarters inch = one foot

0 6

2

E

one half inch = one foot

0 4

4

F

one eighth inch = one foot

0 4 8 16

three eighths inch = one foot

0 4 8

one quarter inch = one foot

0 4 8

one half inch = one foot

0 4

three quarters inch = one foot

0 6

one inch = one foot

0 6

-

F

one eighth inch = one foot

0 4 8 16

one quarter inch = one foot

0 4 8

three eighths inch = one foot


0 8

-

RADIANT CEILING PANELS							
TAG	DESCRIPTION	MAKE & MODEL	WIDTH (INCH)	LENGTH (FEET)	AKT (°F)	CAPACITY	FLOW
RP-1	RECESSED MOUNTED RADIANT CEILING PANEL	AIRTEK RADIANT SYS. HEF-2	16" NOM / 4 TUBE2	3'-0" NOM.	170	810 BTU/HR	0.5 GPM
RP-2	RECESSED MOUNTED RADIANT CEILING PANEL	AIRTEK RADIANT SYS. HEF-2	18" NOM / 1 TUBE	3'-0" NOM.	170	864 BTU/HR	0.50 GPM
RP-3	RECESSED MOUNTED RADIANT CEILING PANEL	AIRTEK RADIANT SYS. HEF-2	18" NOM / 4 TUBE	4'-0" NOM.	170	1,212 BTU/HR	0.75 GPM
RP-4	RECESSED MOUNTED RADIANT CEILING PANEL	AIRTEK RADIANT SYS. HEF-2	24" NOM / 4 TUBE	3'-6" NOM.	170	1,362 BTU/HR	0.75 GPM
RP-5	RECESSED MOUNTED RADIANT CEILING PANEL	AIRTEK RADIANT SYS. HEF-2	18" NOM / 1 TUBE	5'-0" NOM.	170	1515 BTU/HR	0.75 GPM
RP-6	RECESSED MOUNTED RADIANT CEILING PANEL	AIRTEK RADIANT SYS. HEF-2	24" NOM / 4 TUBE	3'-0" NOM.	170	1,167 BTU/HR	0.75 GPM

GENERAL NOTES:

1. PROVIDE ADAPTER FRAME FOR MOUNTING PANELS IN GYPSUM BOARD CEILINGS.
2. PROVIDE HOLD DOWN CLIPS TO LOCK PANELS TO TRIT FRAME.
3. PROVIDE CONTINUOUS EXTRUSIONS FOR SPECIFIED PANEL LENGTH.
4. PANEL FINISH TO BE AS SELECTED BY THE ARCHITECT.
5. PROVIDED U.S.S. REINFORCED FLEXIBLE CONNECTORS TO THE PANELS.
6. PROVIDE MANUFACTURER SUPPLIED JACKETED INSULATION BLANKET ON PANELS
7. PROVIDE ALL FITTINGS AND TRIT FOR THE CIRCUITING INDICATED ON THE PLANS..

<p><u>Life Safety Consultant</u> Jensen-Hughes 1661 Worcester Road Suite 501 Frammingham, MA</p> <p><u>Interior Signage Design</u> Creative Signage 3101 51st Place College Park, MD 20740</p>	<p>ARCHITECT</p>  <p>emphatic4h DESIGN ARCHITECTS AND INTERIORS LLC</p> <p>185 Talcott Road Williston, VT 05495</p> <p>T: 802.878.8841 www.edvarchitecture.com</p>
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1. THE DEMOLITION DRAWINGS INDICATE GENERAL LOCATION AND SIZE OF SERVICES TO BE DEMOLISHED. THE SYSTEMS SHOWN ON THE DEMOLITION DRAWINGS ARE NOT INDICATIVE OF THE ENTIRE DEMOLITION SCOPE. THE HVAC CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF SYSTEMS NOT SHOWN ON THE DEMOLITION DRAWINGS THAT ARE WITHIN THE PROJECT AREA AND THAT WILL NOT AFFECT THE OPERATION OF SPACE OUTSIDE OF THE CONSTRUCTION LIMITS.
2. PROVIDE DEMOLITION OF ALL DUCTWORK SHOWN ON THE DRAWINGS. PROVIDE DEMOLITION OF ALL PIPING SHOWN ON THE DRAWINGS. REMOVE ALL TERMINAL DEVICES WITHIN PIPING, HANGERS AND SUPPORTS.
3. THE EXISTING AREAS NOT UNDER RENOVATION SHALL REMAIN FULLY OPERATIONAL DURING CONSTRUCTION.
5. PROVIDE PATCHING TO MATCH EXISTING CONSTRUCTION WHERE DUCTWORK AND PIPING ARE REMOVED FROM AN EXISTING PARTITION.
6. COORDINATE ALL SHOOTINGS WITH THE CONSTRUCTION MANAGER FOUR-WEEKS IN ADVANCE.
7. COORDINATE ASBESTOS ABATEMENT REQUIREMENTS WITH OWNER PRIOR TO ANY DEMOLITION OF EXISTING HVAC OR PLUMBING.

2. ALL NEW AIR DUCTING SHALL BE RATED FOR AN AIR PRESSURE OF 4" W.G. SEE SPECIFICATIONS.
3. ALL INSULATION SHALL BE FURNISHED AND INSTALLED AS PER THE SPECIFICATIONS.
3. PROVIDE SHEET METAL GAUGE AND HANGER SPACING PER THE CURRENT EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
4. ALL 90° ELBOWS SHALL BE PROVIDED WITH TURNING VANES. PROVIDE TWO (2) TURNING VANES FOR DUCT WORK UNDER 12" WIDE, AND PROVIDE THREE (3) TURNING VANES FOR DUCTS BETWEEN 12" & 18" WIDE. PROVIDE AN ADDITIONAL TURNING VANE FOR EVERY MULTIPLE OF 3" IN DUCT WIDTH. INSTALL TURNING VANES AS PER CURRENT EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS.
5. ALL MECHANICAL SYSTEMS SHALL BE COMPLETELY OPERATIONAL. THE DRAWINGS ARE SCHEMATIC IN NATURE, FIELD COORDINATION IS REQUIRED.
6. PROVIDE ALL EQUIPMENT AND MATERIALS NECESSARY FOR MOUNTING ALL MECHANICAL EQUIPMENT.
7. FLEXIBLE DUCTS NOT PERMITTED ON INLET OR OUTLET OF VAV BOXES.
8. ALL VOLUME DAMPERS SHALL BE LOCKING QUADRANT TYPE AND CONSTRUCTED OF 18 GA. GALVANIZED STEEL.
9. ALL VOLUME DAMPERS SHALL BE ULTRA LOW-LEAK AND SHALL HAVE A ROUND SHAFT WITH SHAFT SEALS AT THE PENETRATIONS IN THE DUCTWORK. VOLUME DAMPER NOT CONFORMING TO THE ULTRA-LOW LEAK STANDARD SHALL BE REMOVED AND REPLACED AT THE MECHANICAL CONTRACTORS EXPENSE.
10. 5' MAXIMUM FLEXIBLE AIR DUCTS ON ALL TAKEOFFS.
11. A MAXIMUM OF 90° CHANGE IN DIRECTION SHALL BE ALLOWED IN ALL FLEXIBLE DUCT TAKE-OFFS. ANY FLEXIBLE DUCT TAKE-OFFS NOT SUPPORTED OR WITH GREATER THAN 90° CHANGE IN DIRECTION SHALL BE REMOVED AND REPLACED AT THE MECHANICAL CONTRACTORS EXPENSE.
12. COORDINATE THE LOCATION OF VAV BOXES WITH OTHER TRADES. ALL VAV BOXES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION APPROVED BY OWNER AND THE ENGINEER.
13. ALL SUSPENDED DUCT WORK, AND PIPING SHALL BE PROVIDED WITH SEISMIC BRACING AS REQUIRED. ALL EQUIPMENT SHALL BE PROVIDED WITH SEISMIC BRACING.
14. ALL MECHANICAL SYSTEMS EQUIPMENT, ETC. SHALL HAVE SEISMIC RESTRAINT DESIGNED, CERTIFIED AND INSTALLED ACCORDANCE WITH THE SPECIFICATIONS, SECTION #30501 AND THE STANDARDS REFERENCED THEREIN.
14. ALL DUCT WORK 144 SQ. IN. AND OVER IN CROSS SECTIONAL AREA SHALL BE FABRICATED USING DUCT-PLATE FLANGES. NO SLIP AND DRIVE CONNECTIONS SHALL BE PERMITTED. TIE CONNECTIONS ARE ACCEPTABLE FOR DUCTS OVER 36" IN DIAMETER.
15. PROVIDE ALL EQUIPMENT AND MATERIALS NECESSARY FOR INSTALLATION AND DEMO WORK IN CONFINED SPACES (TRENCH WORK) PER OSHA STANDARDS AND ALL STATE AND LOCAL REQUIREMENTS.
16. COORDINATE THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILING TILES, LIGHTING, AND FIRE ALARM DEVICES WITH INSTALLATION OF NEW MECHANICAL EQUIPMENT, PIPING, AND DUCTWORK.
17. COORDINATE ALL DIFFUSER INSTALLATION WITH EXISTING CEILING GRID OR NEW ARCHITECTURAL REFLECTED CEILING PLAN.

1. THE BALANCE CONTRACTOR SHALL SUBMIT A FORMAL BALANCE REPORT AT THE COMPLETION OF EACH PHASE OF WORK.
2. THE BALANCE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPERATURE CONTROL, VERIFICATION, SEQUENCE, OPERATIONS VERIFICATION, AND SYSTEM COMMISSIONING AT THE COMPLETION OF EACH PHASE OF WORK. THE BALANCE CONTRACTOR SHALL BE PRESENT DURING THE FINAL CONTROL SYSTEM COMMISSIONING PROCESS AND SHALL ASSIST THE COMMISSIONING AGENT, THE CONTROLS CONTRACTOR, AND THE MECHANICAL CONTRACTOR DURING THE COMMISSIONING PROCESS.
3. THE TESTING AND BALANCE AGENT SHALL BE RESPONSIBLE FOR TEMPERATURE CONTROLS SEQUENCE OF OPERATION AND OPERATIONAL AGENT LINE IN THE OPERATIONS. THE TESTING AND BALANCING AGENT SHALL WORK WITH THE CONTROLS CONTRACTOR TO VERIFY THE CORRECT OPERATIONS OF ALL CONTROLS SEQUENCES.
4. THE TESTING AND BALANCING AGENT SHALL BE RESPONSIBLE FOR ASSISTING THE COMMISSIONING AGENT WITH THE TESTING AND BALANCING AGENT SHALL BE ON SITE DURING THE COMMISSIONING PROCESS, AND SHALL WORK WITH THE COMMISSIONING AGENT TO VERIFY THE CORRECT OPERATIONS OF ALL CONTROLS SEQUENCES.

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GENERAL NOTES:

1. PROVIDE FILTER HOUSING WITH THE FOLLOWING OPTIONS:

A. CHALLENGE PORTS UPSTREAM AND DOWN STREAM OF THE PRIMARY FILTER DOOR.

B. DRILLED DUCT CONNECTION FLANGES.

C. LIFTING LUGS.

D. FACTORY PRESSURE GAUGES WITH SEPARATE GAUGES FOR PRE-FILTER AND PRIMARY FILTER.

E. STATIC PRESSURE TAPS FOR PRE-FILTER AND PRIMARY FILTER.

F. WEATHER CAP.


2. HEPA FILTER TO BE "CANFIL-FARR" MODEL #01X4-24Z2-IU-3-C-A-00, 99.97% EFFICIENT @0.3 MICRONS, GASKET SEAL, NOMINAL RATING 2,000 CFM AT 1.35" INITIAL STATIC PRESSURE DROP (0.6" AT 900 CFM OPERATING).

ELECTRICAL	M.C.A.	OUTDOOR UNIT	NOTES
08V/IP	1.0	(TR-B)	1,3,4
08V/IP	1.0	(TR-2B)	1,3,4

WITH MANUFACTURER'S REQUIREMENTS AND

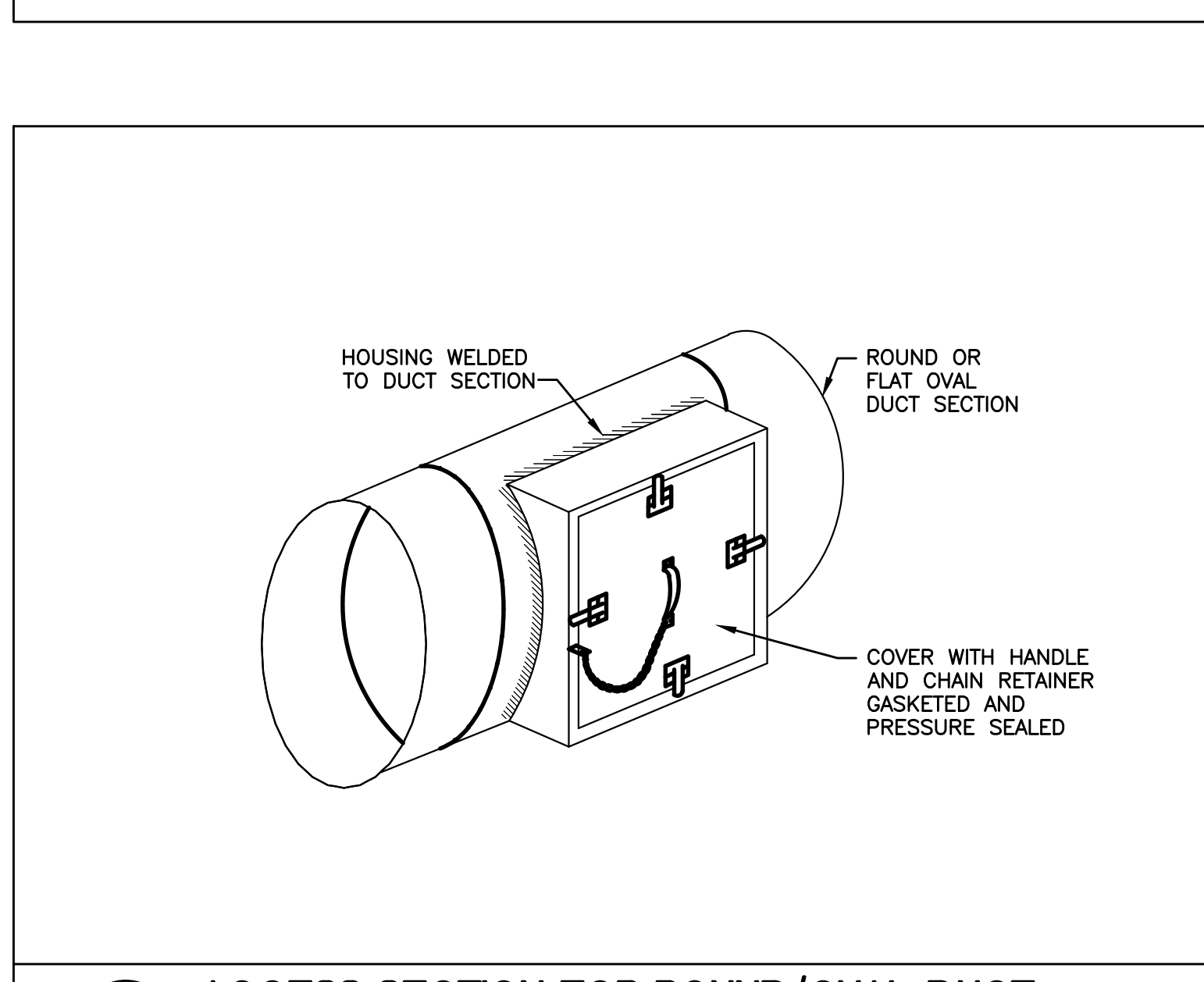
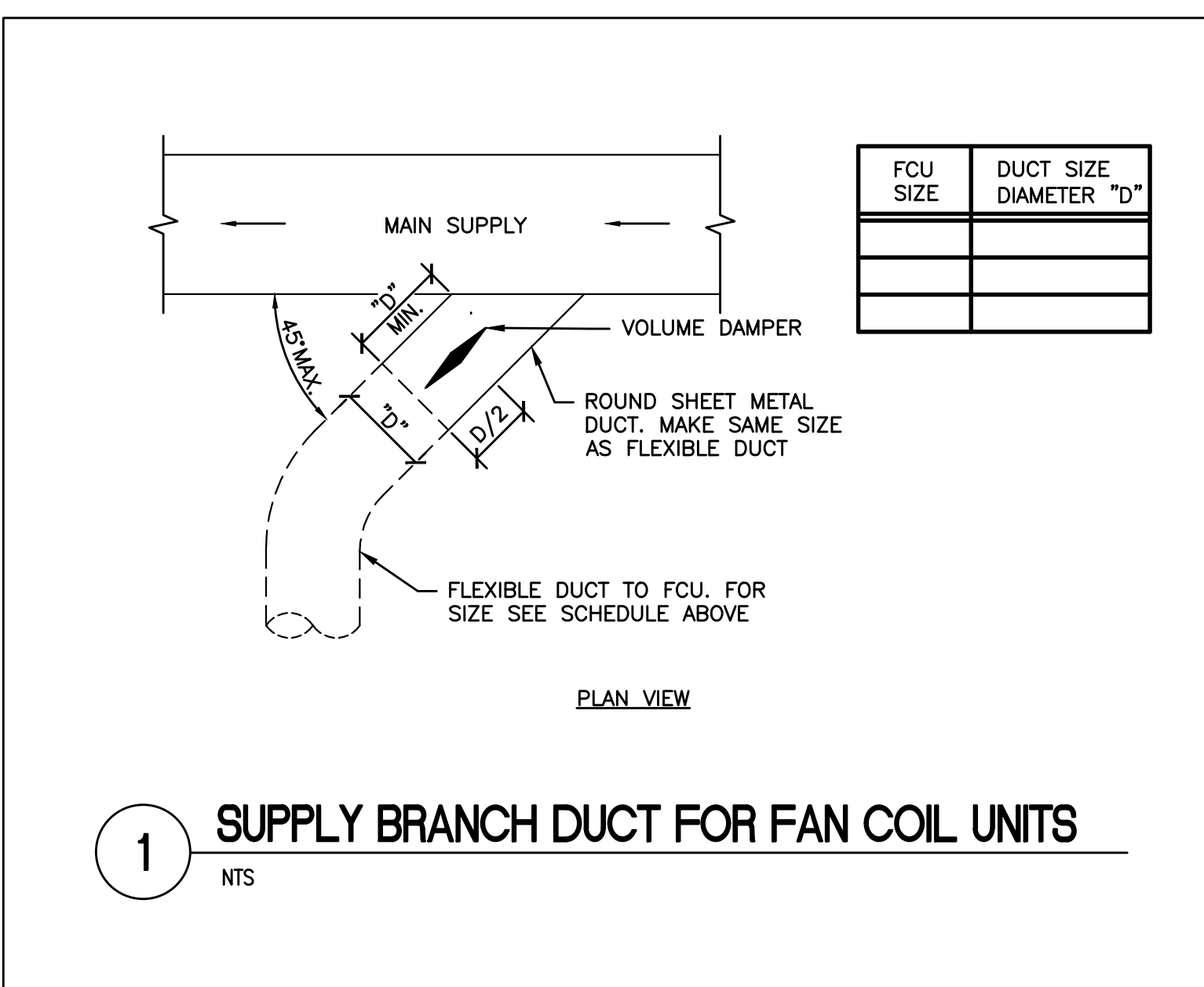
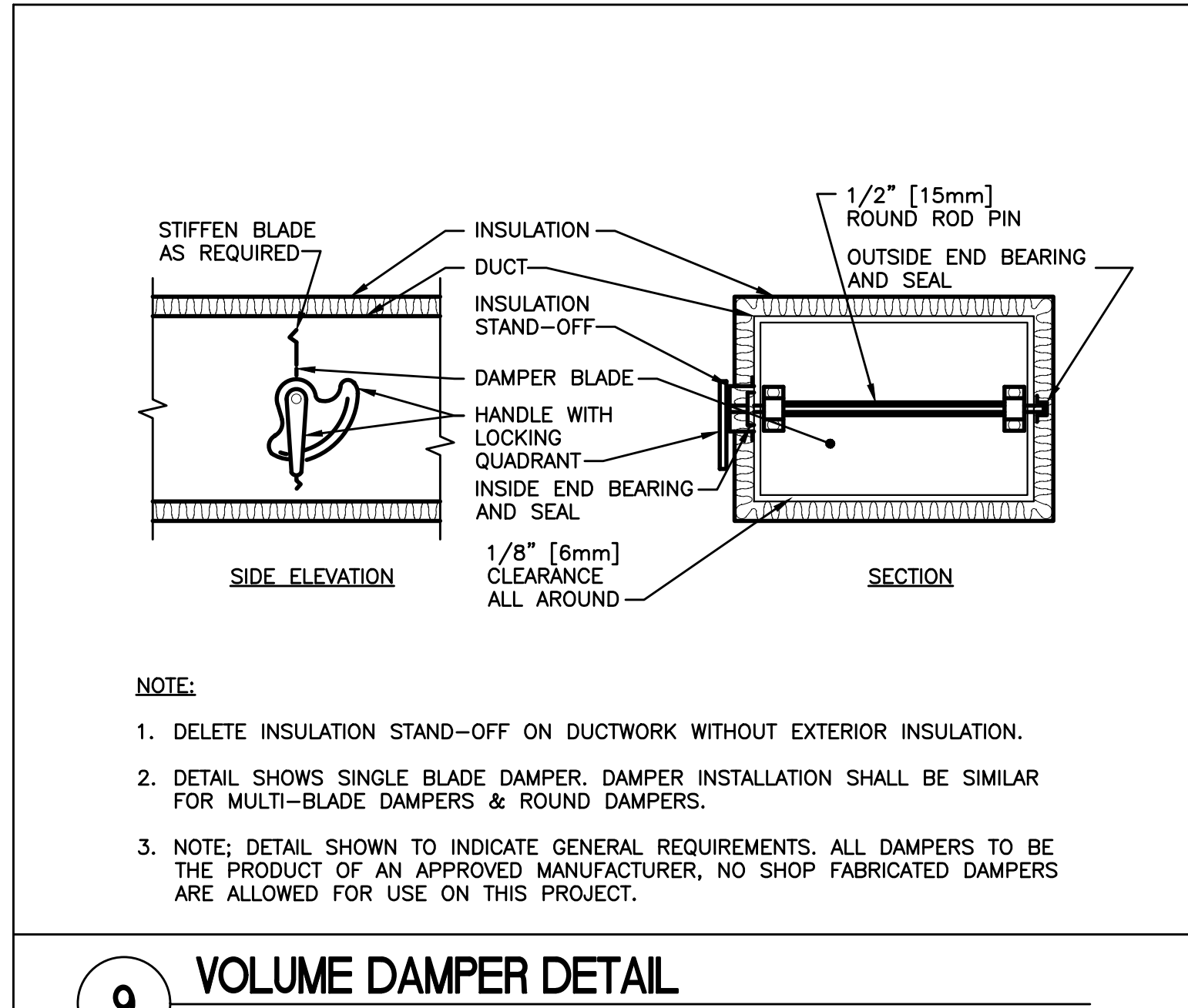
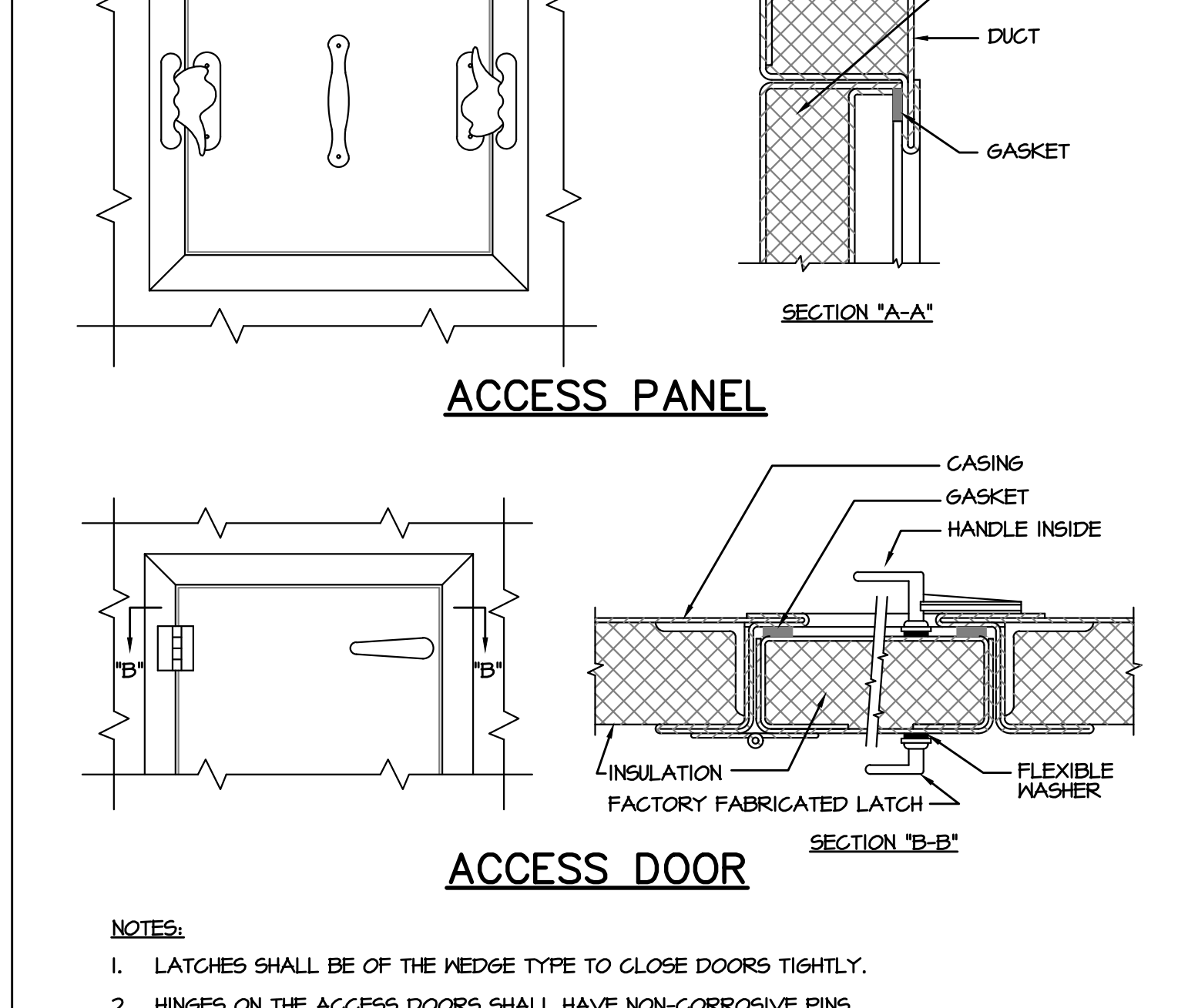
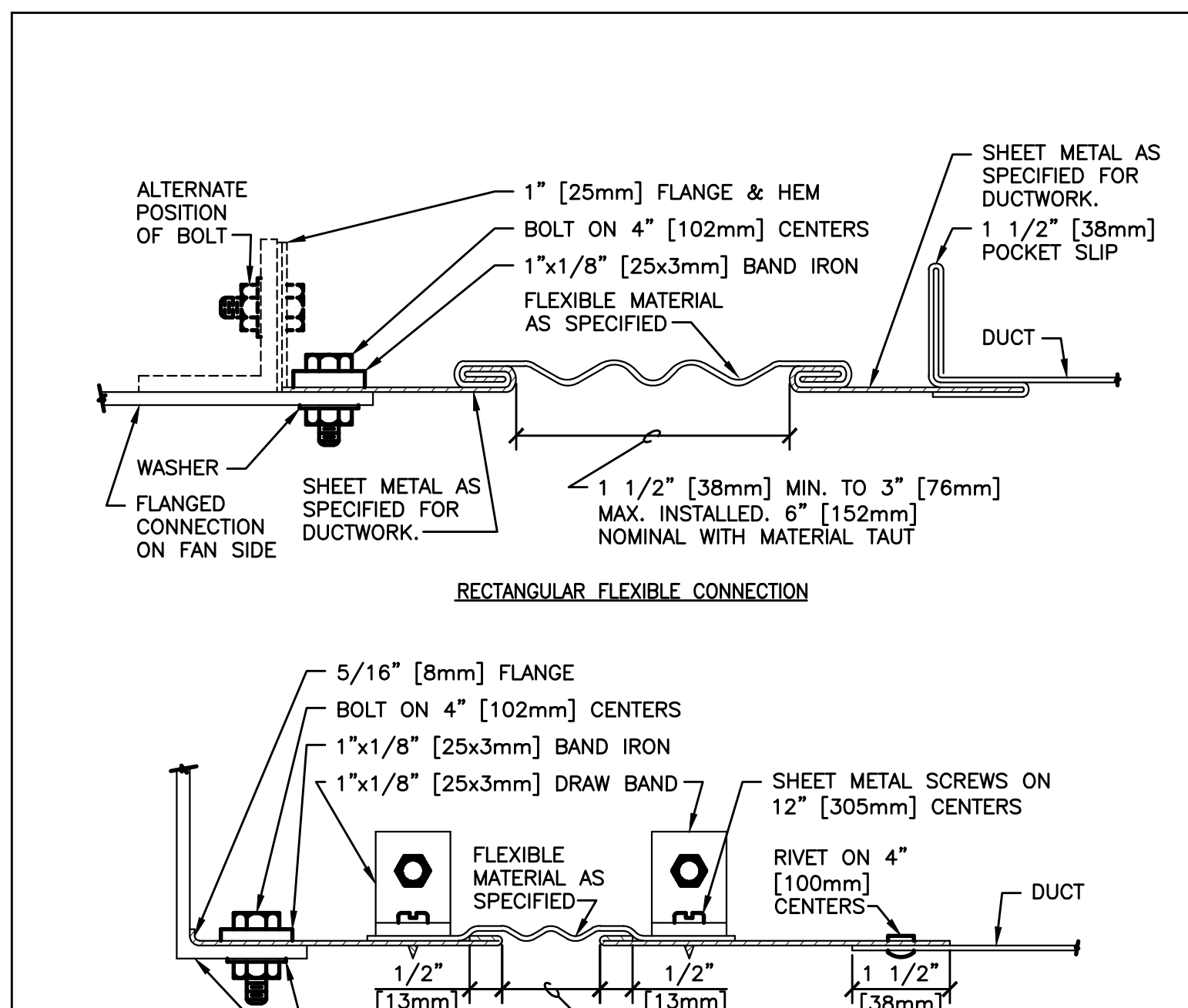
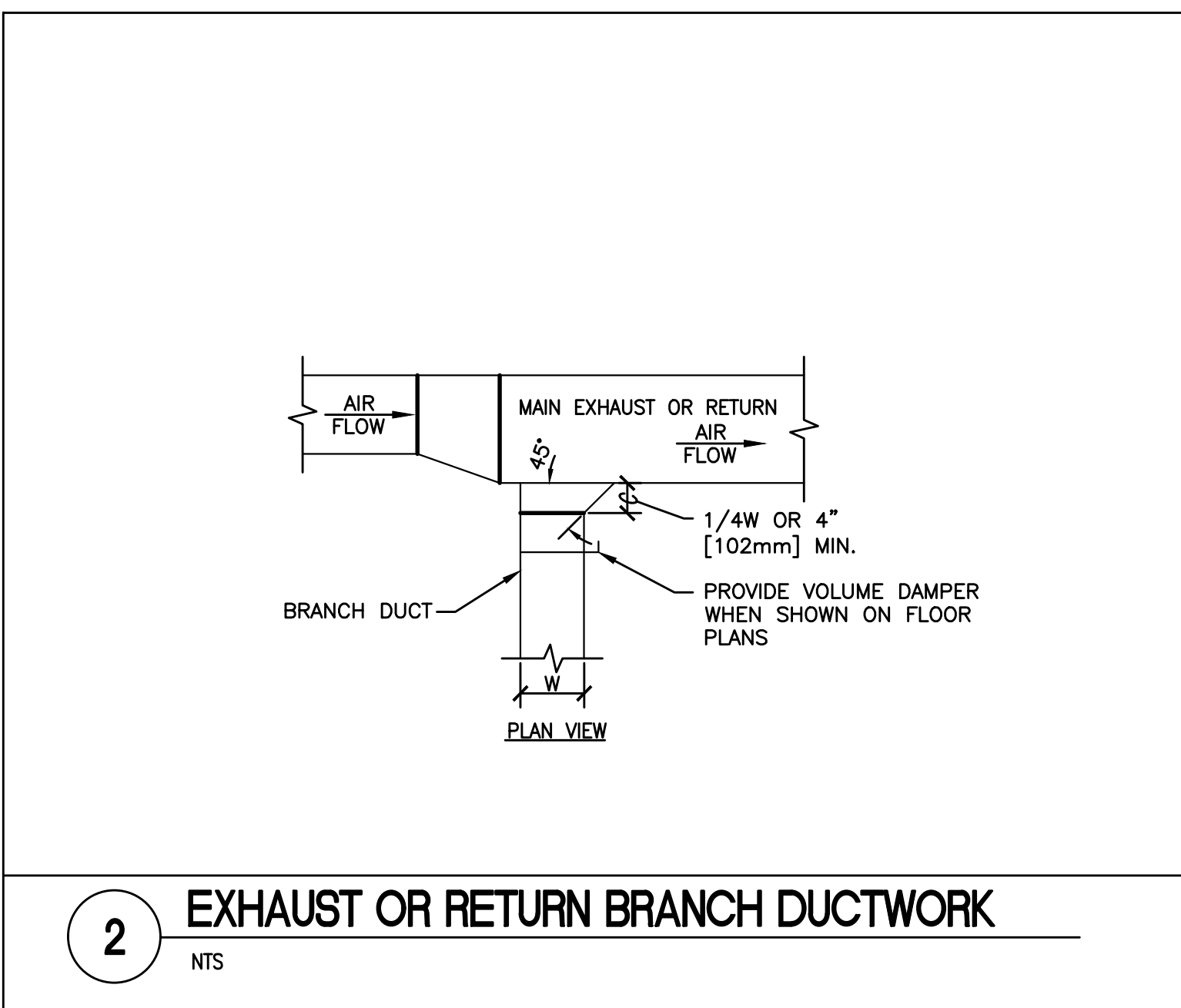
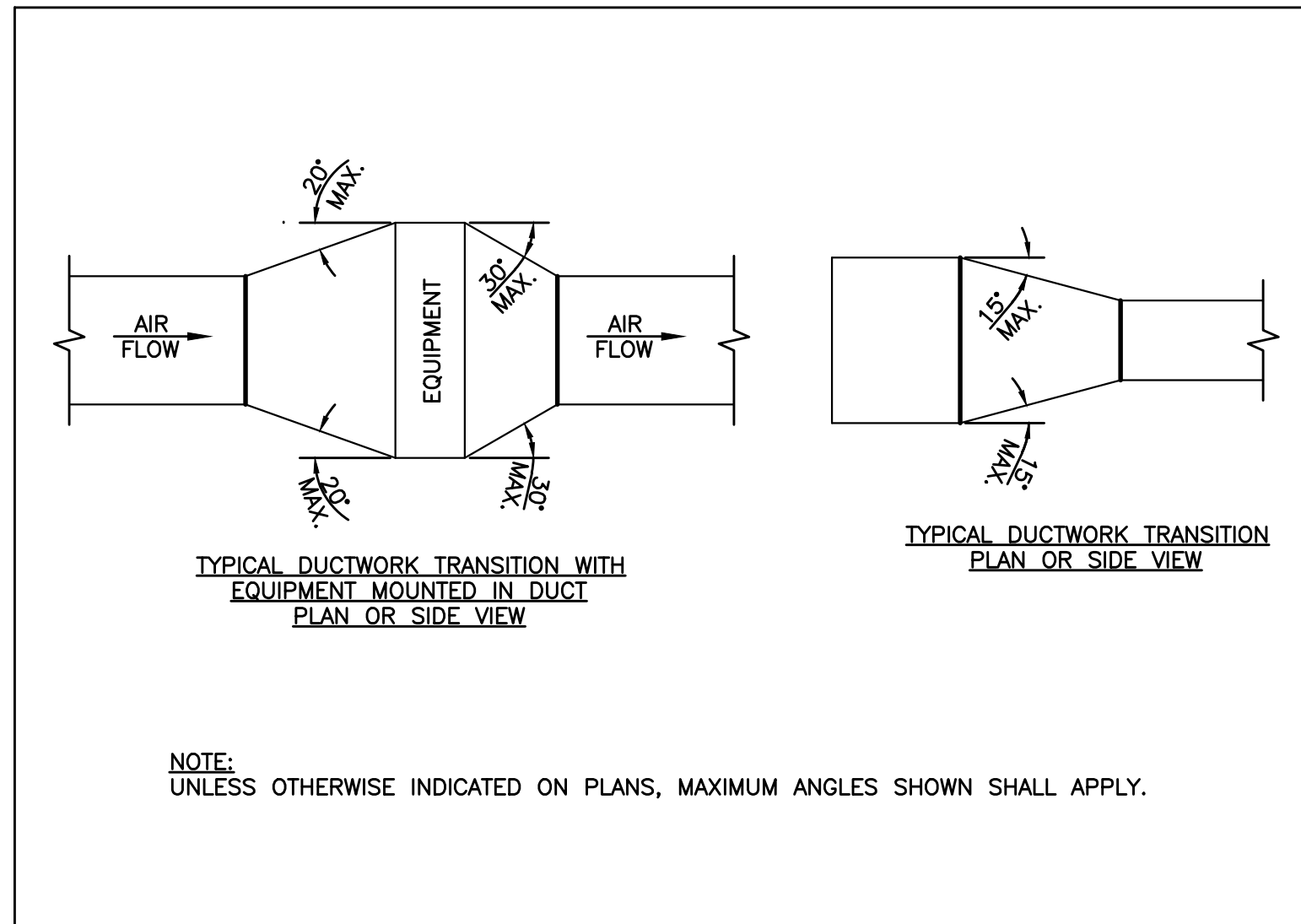
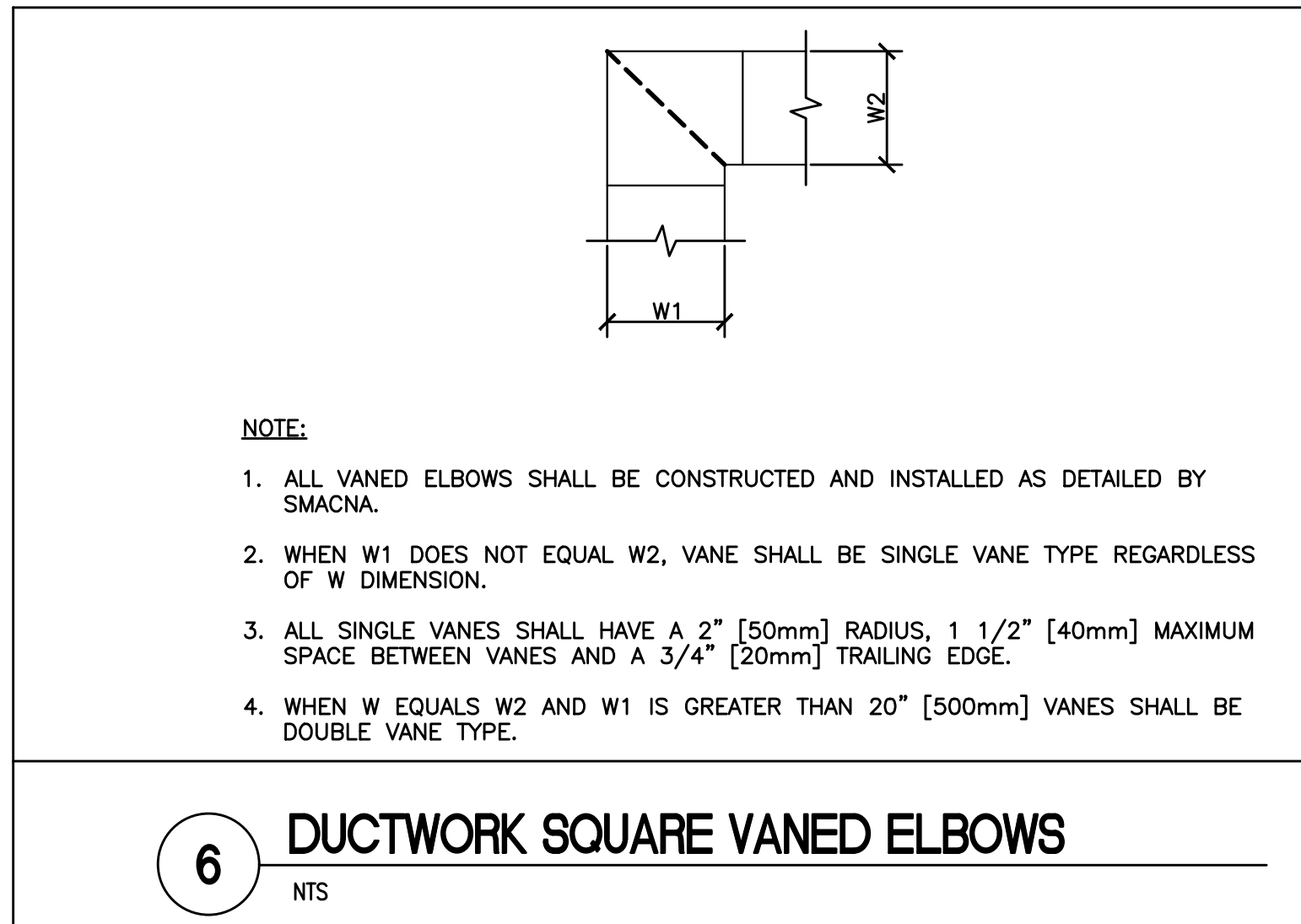
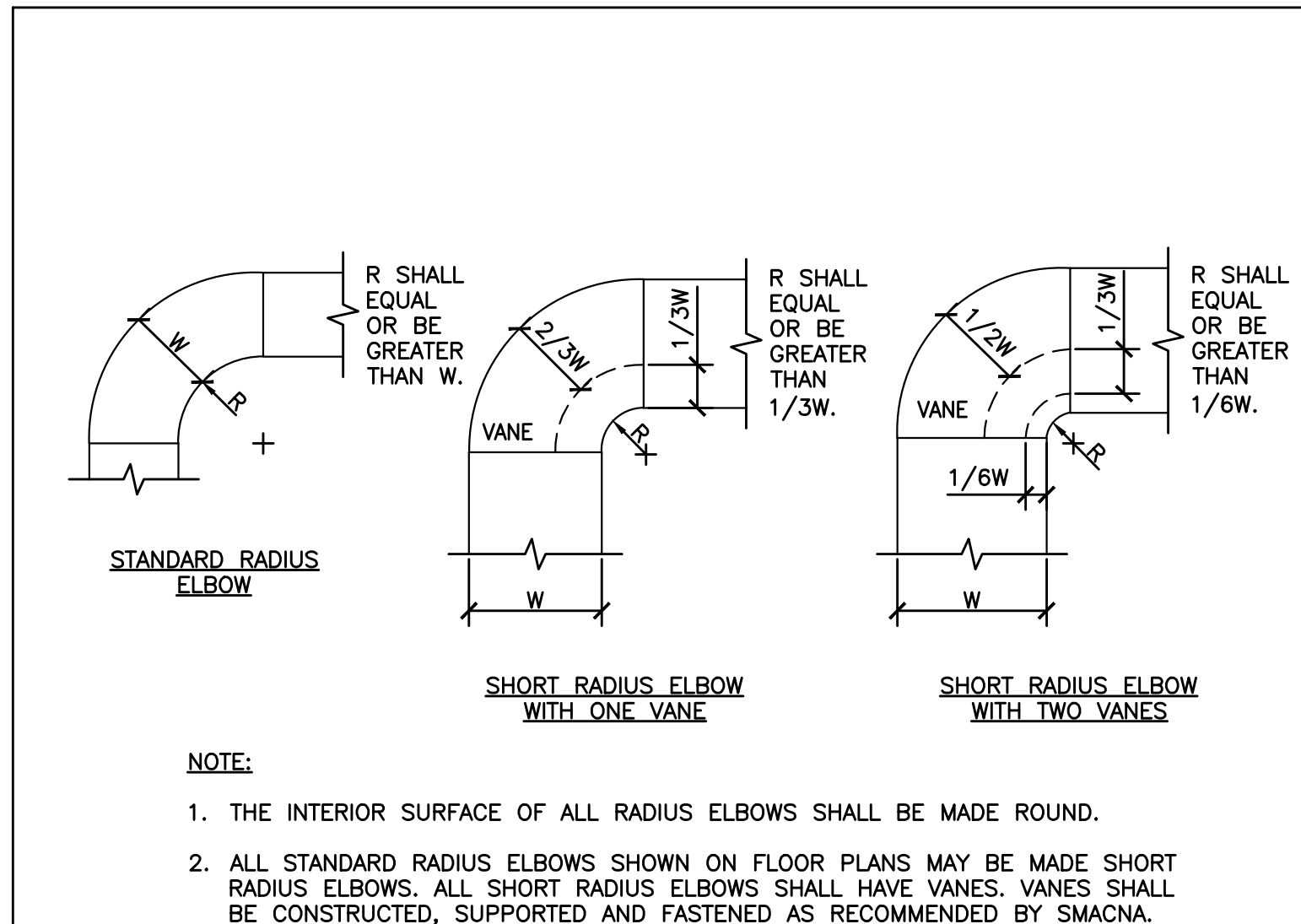
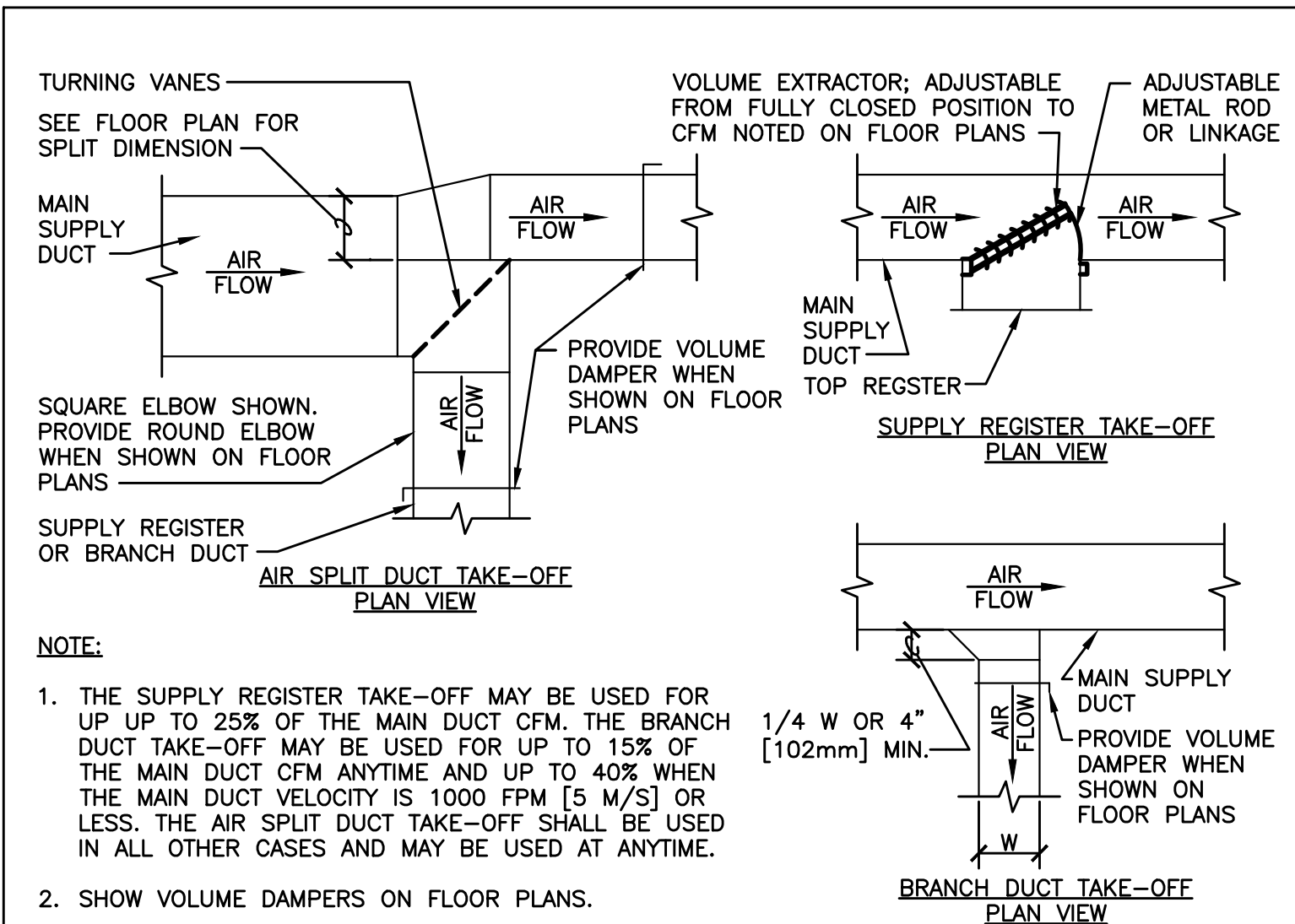
MINER PRIOR TO INSTALLATION.

MAX BRK.	NOTES
25 AMP	① ② ③ ④
25 AMP	① ② ③ ④

	Drawing Title MECHANICAL - EQUIPMENT SCHEDULES	Project Title INPATIENT WARD RENOVATION
	Approved By: L.N.C. _____ Approved By: _____	Building # 31



Department of
Veterans Affairs
Office of Facilities

[illegible]

Mechanical, Plumbing & Electrical Engineering
L.N. Consulting
69 Union St
Winooski, VT 05404
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Construction Cost Estimating & Scheduling
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South Burlington, VT 05403
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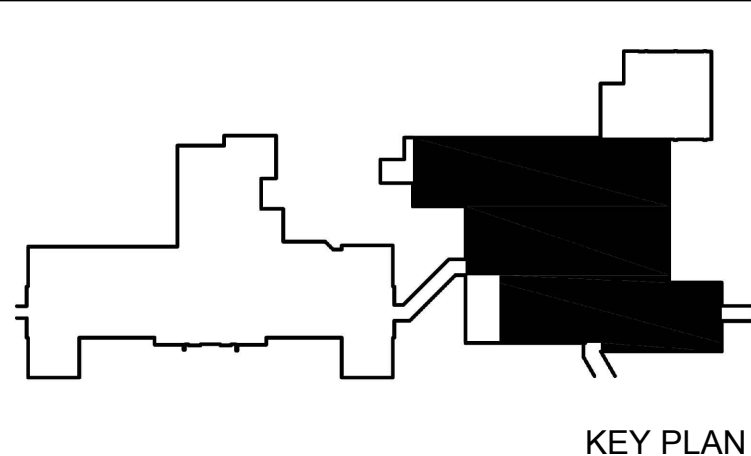
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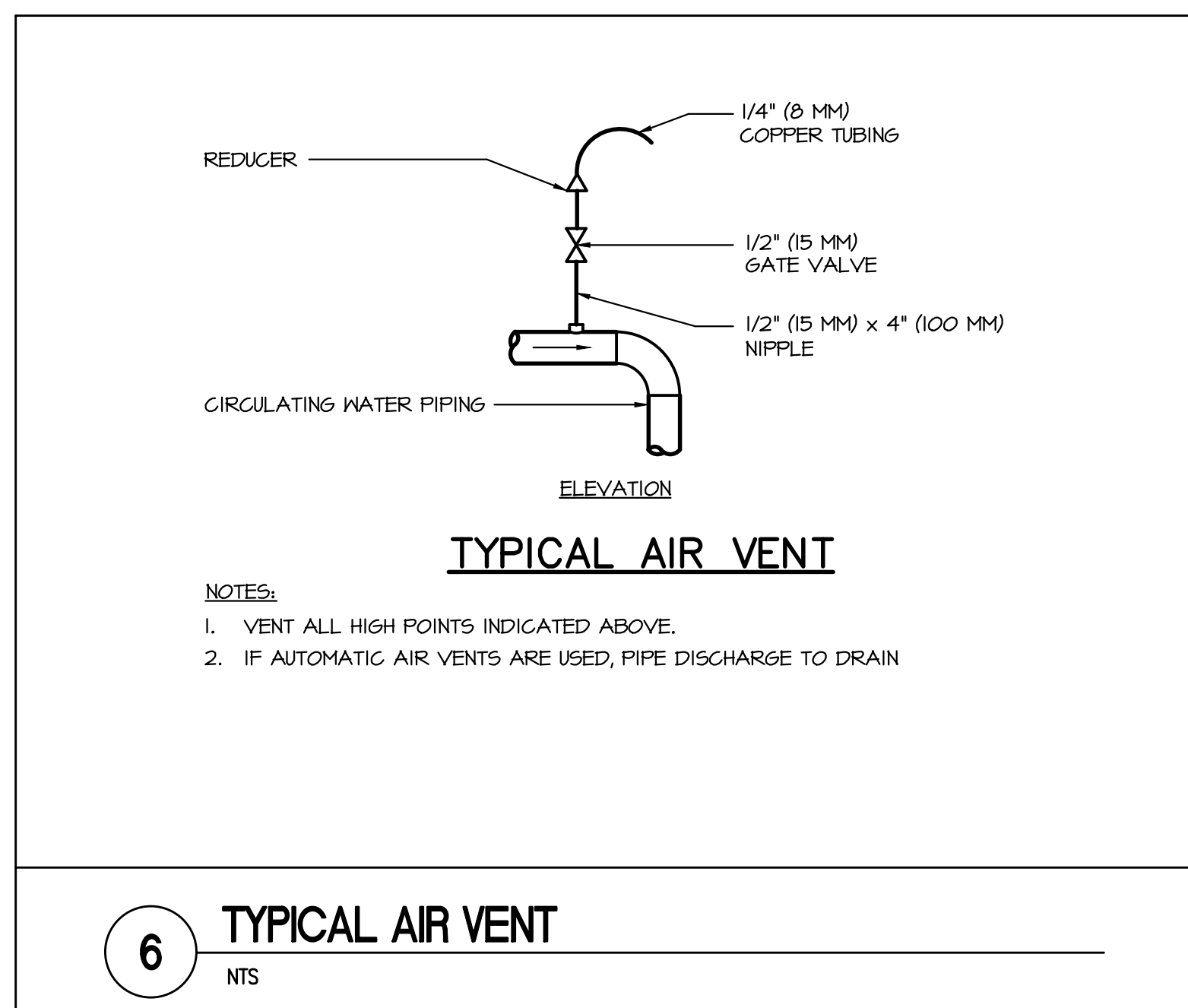
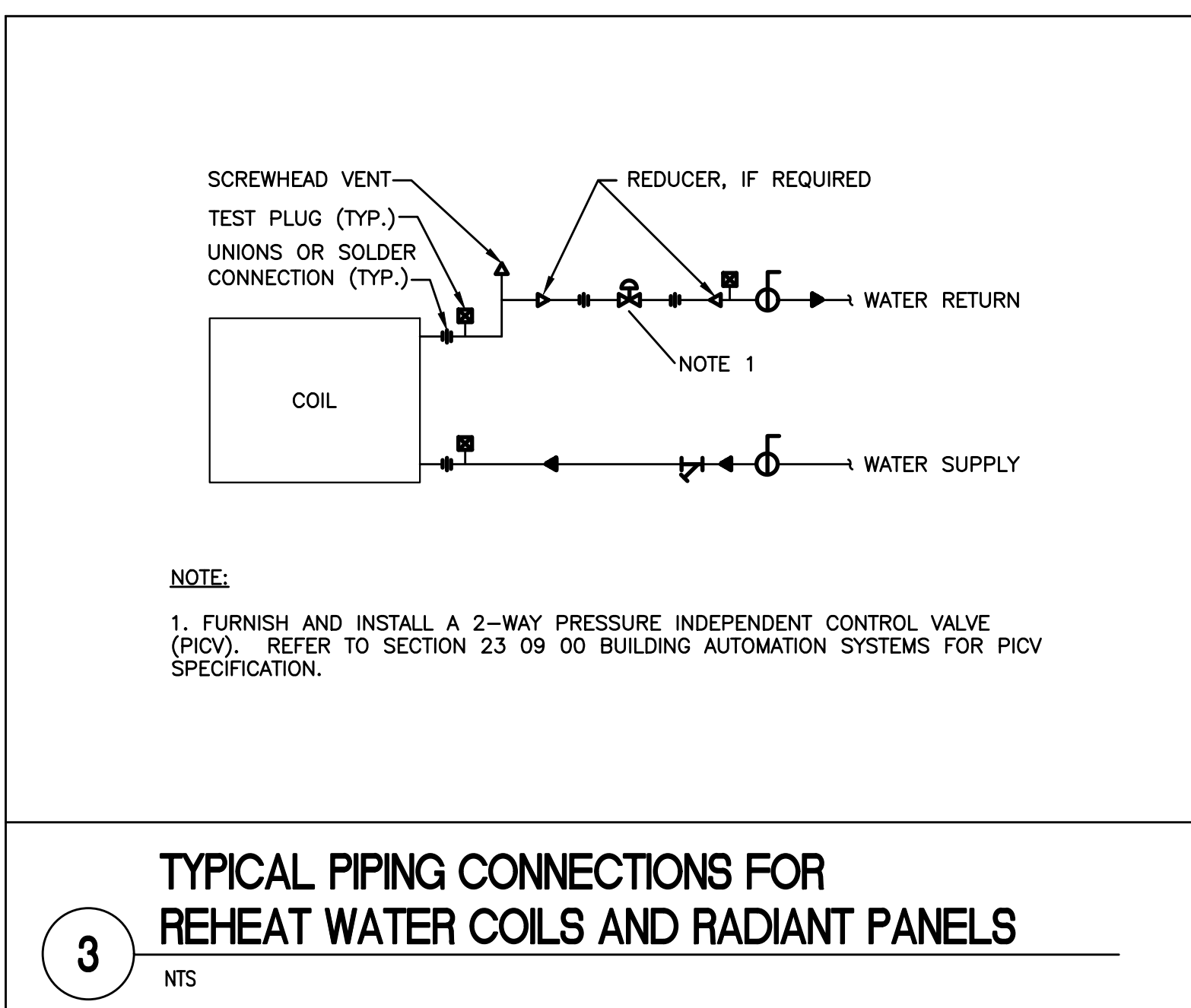
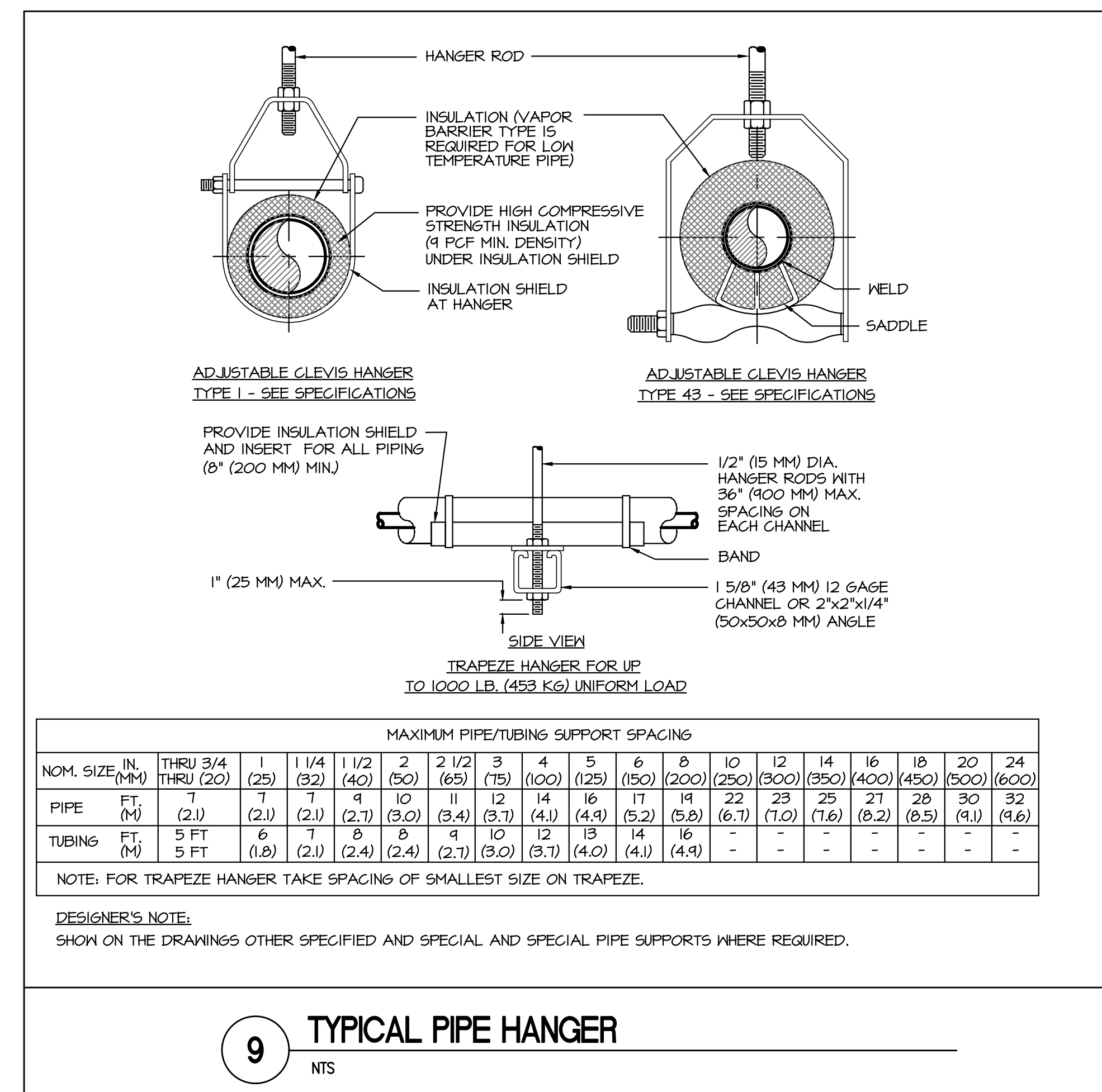
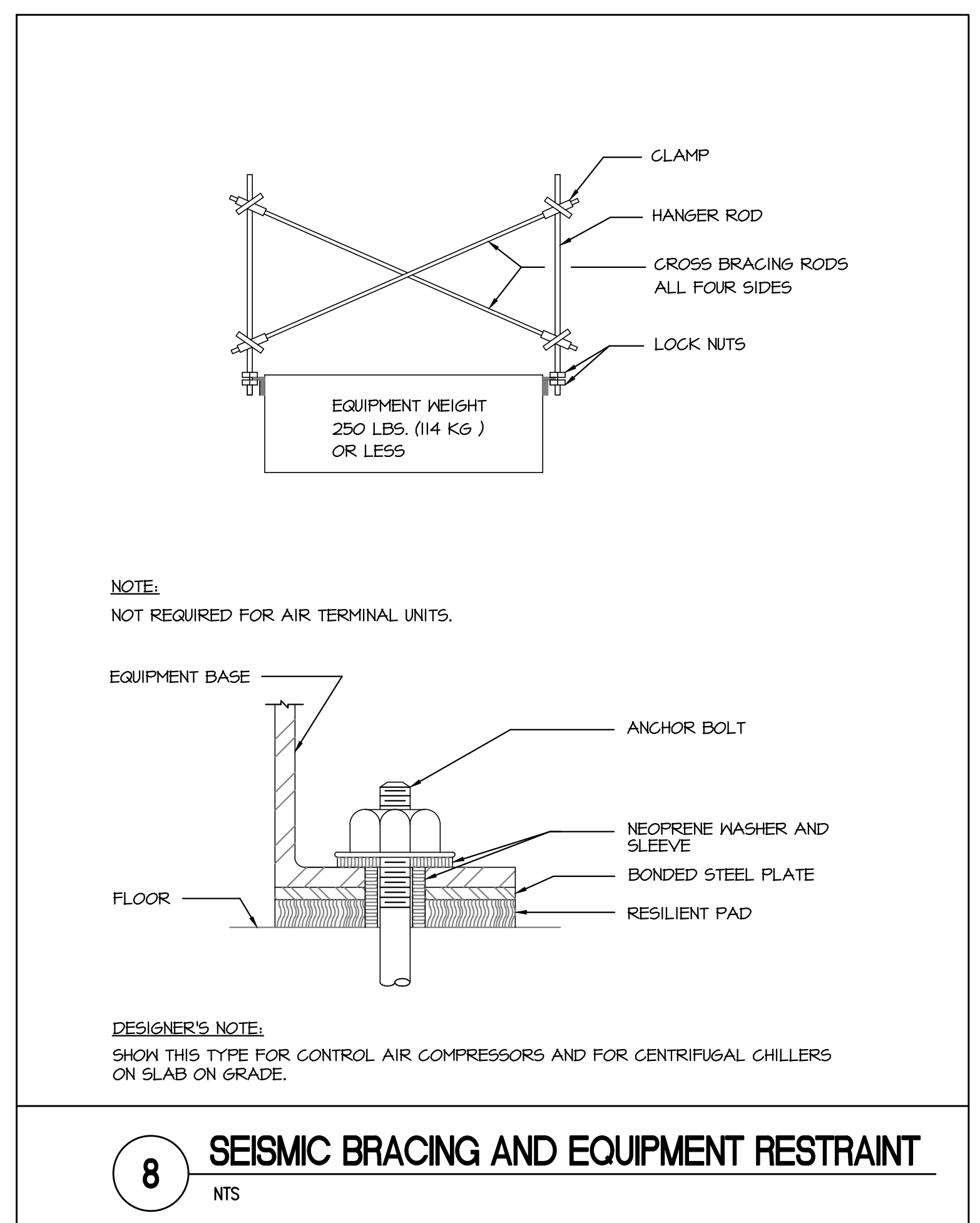
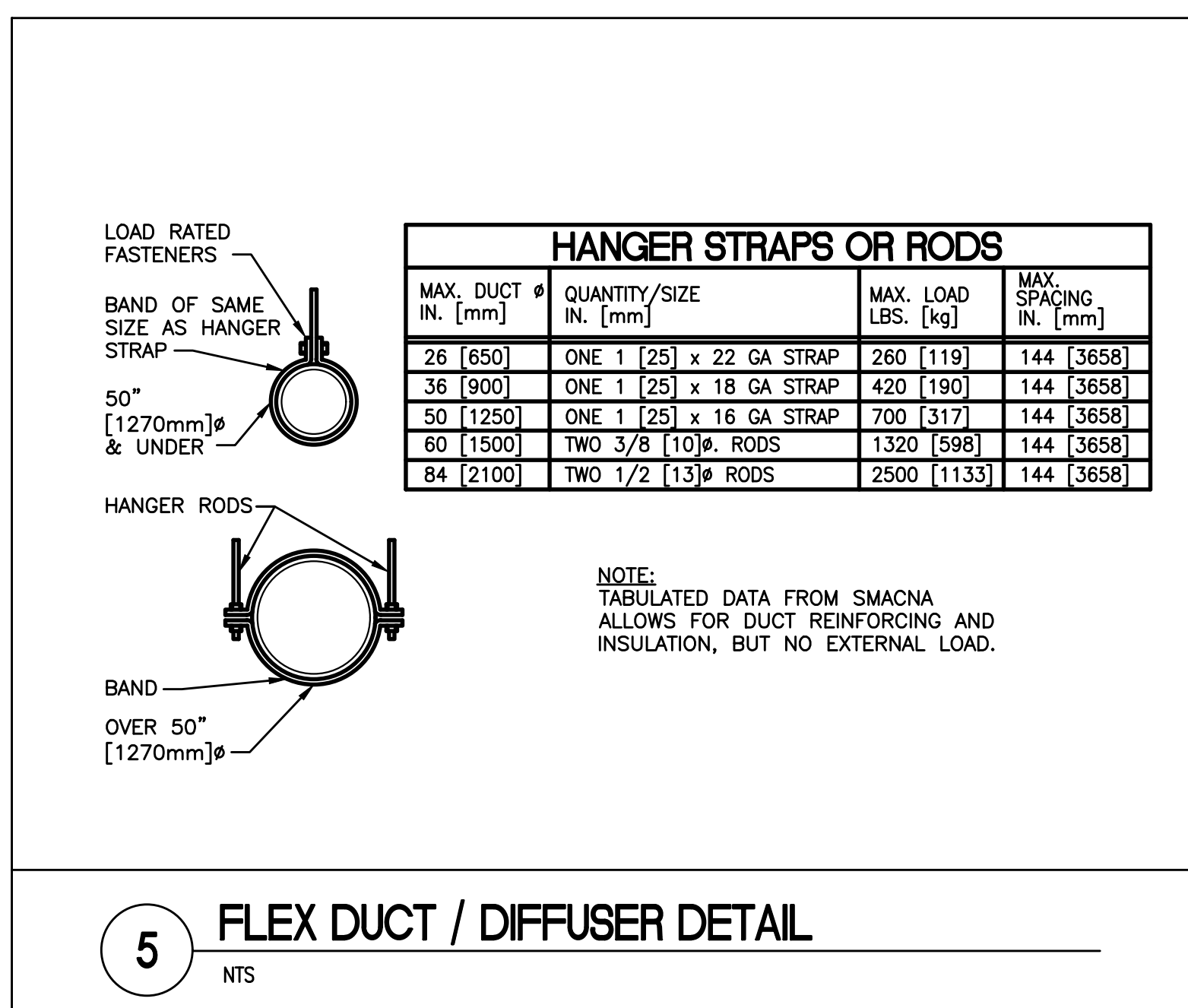
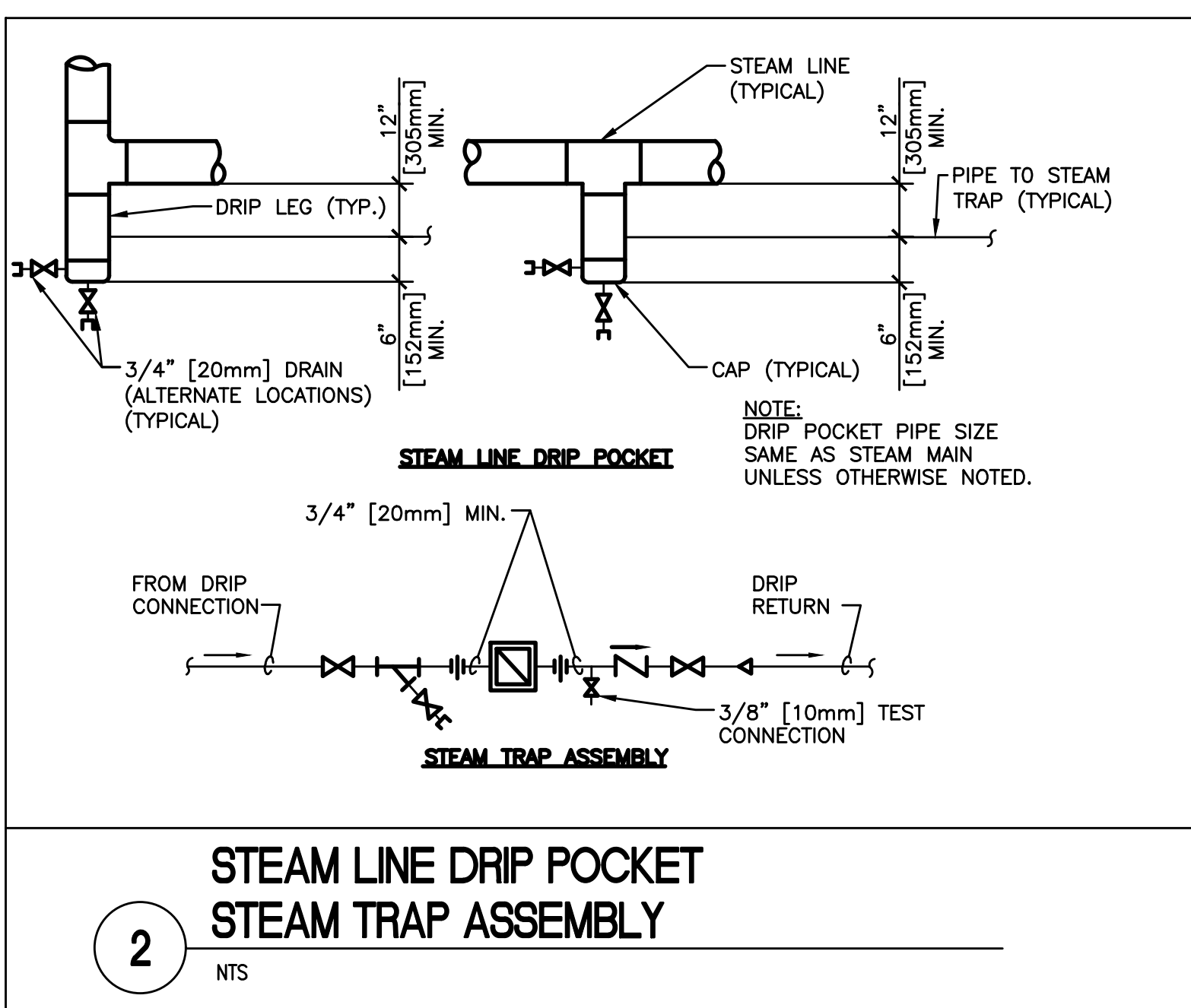
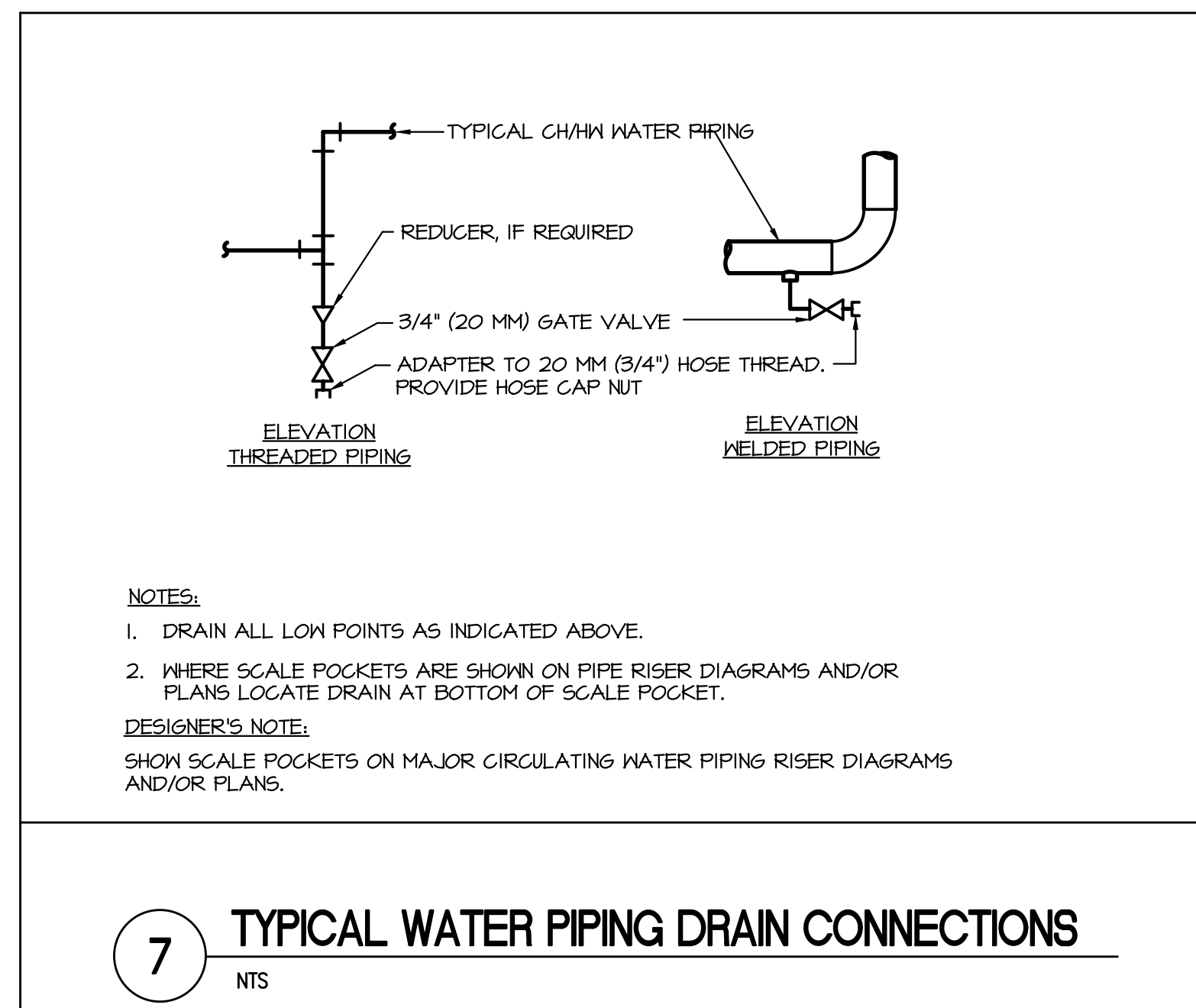
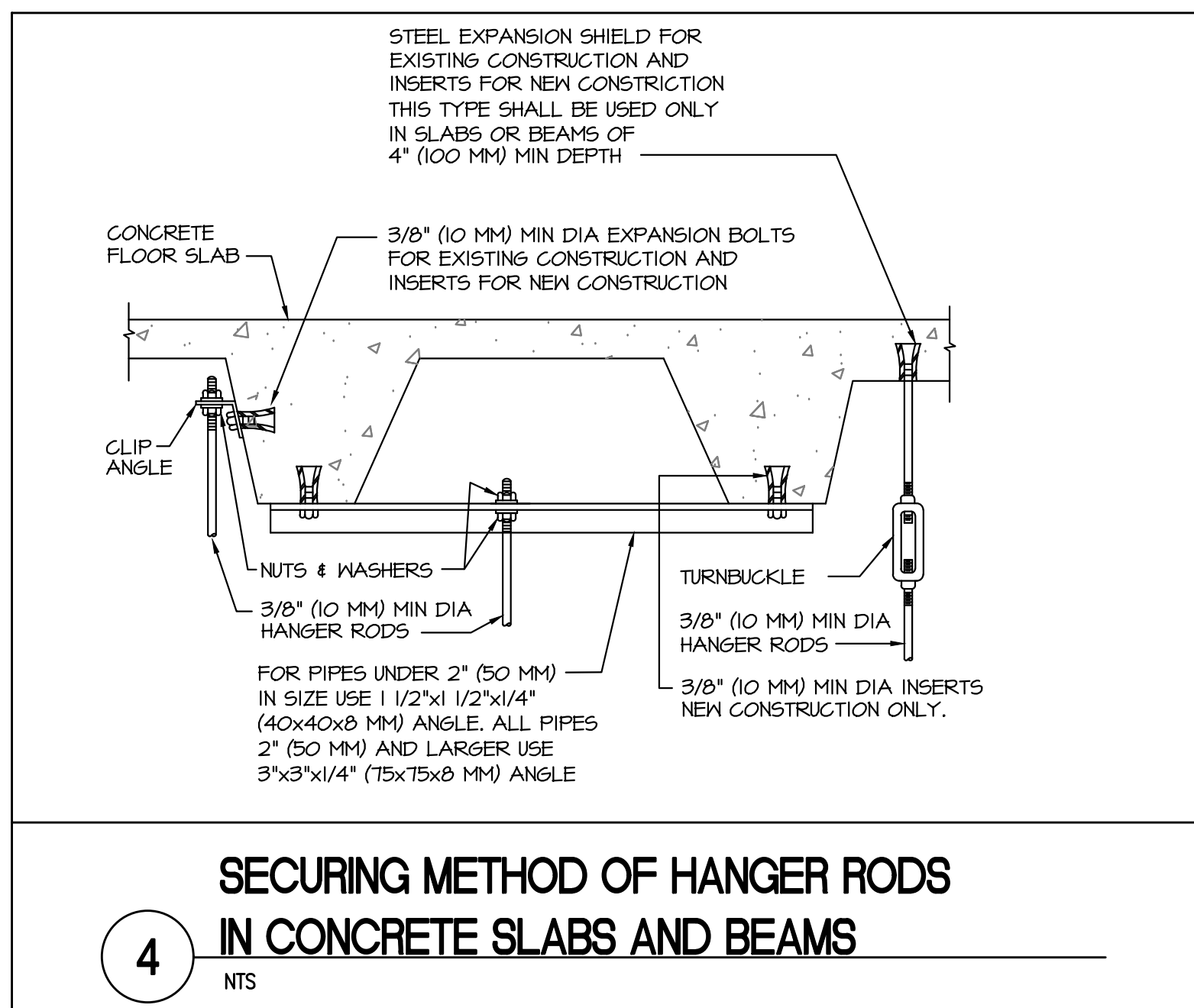
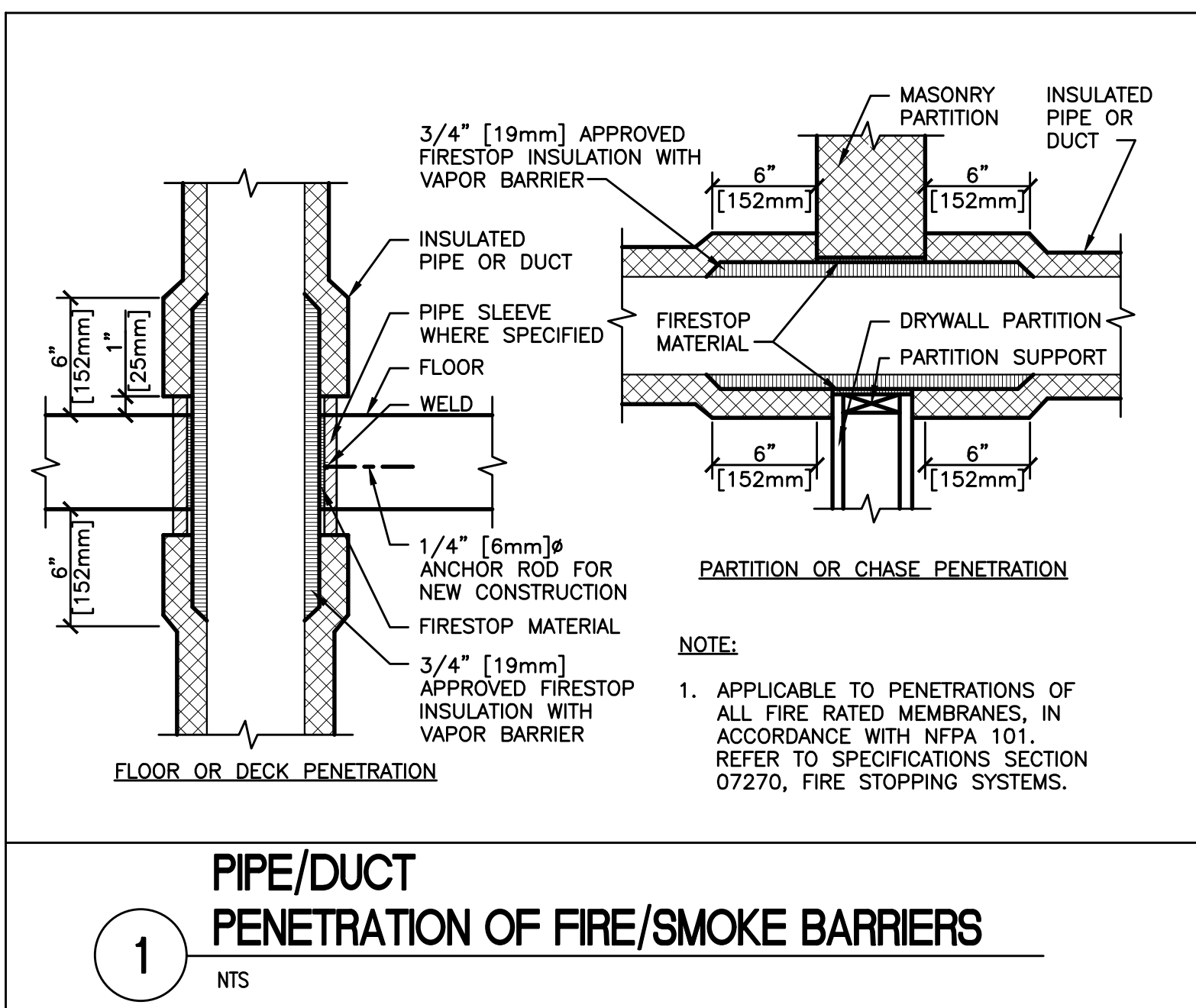


Drawing Title
MECHANICAL - TYPICAL DETAILS
Approved By: L.N.C.
Approved By: -
Approved By: -

Project Title INPATIENT WARD RENOVATION	
Building # 31	Scale NO SCALE
Location VAMC - WHITE RIVER JUNCTION	

Date	9/30/2022
VA Project No.	405-13-104
Drawing No.	31-M-601

Department of
Veterans Affairs





NTS

Date	9/30/2022
VA Project No.	405-13-104
Drawing No.	31-M-603



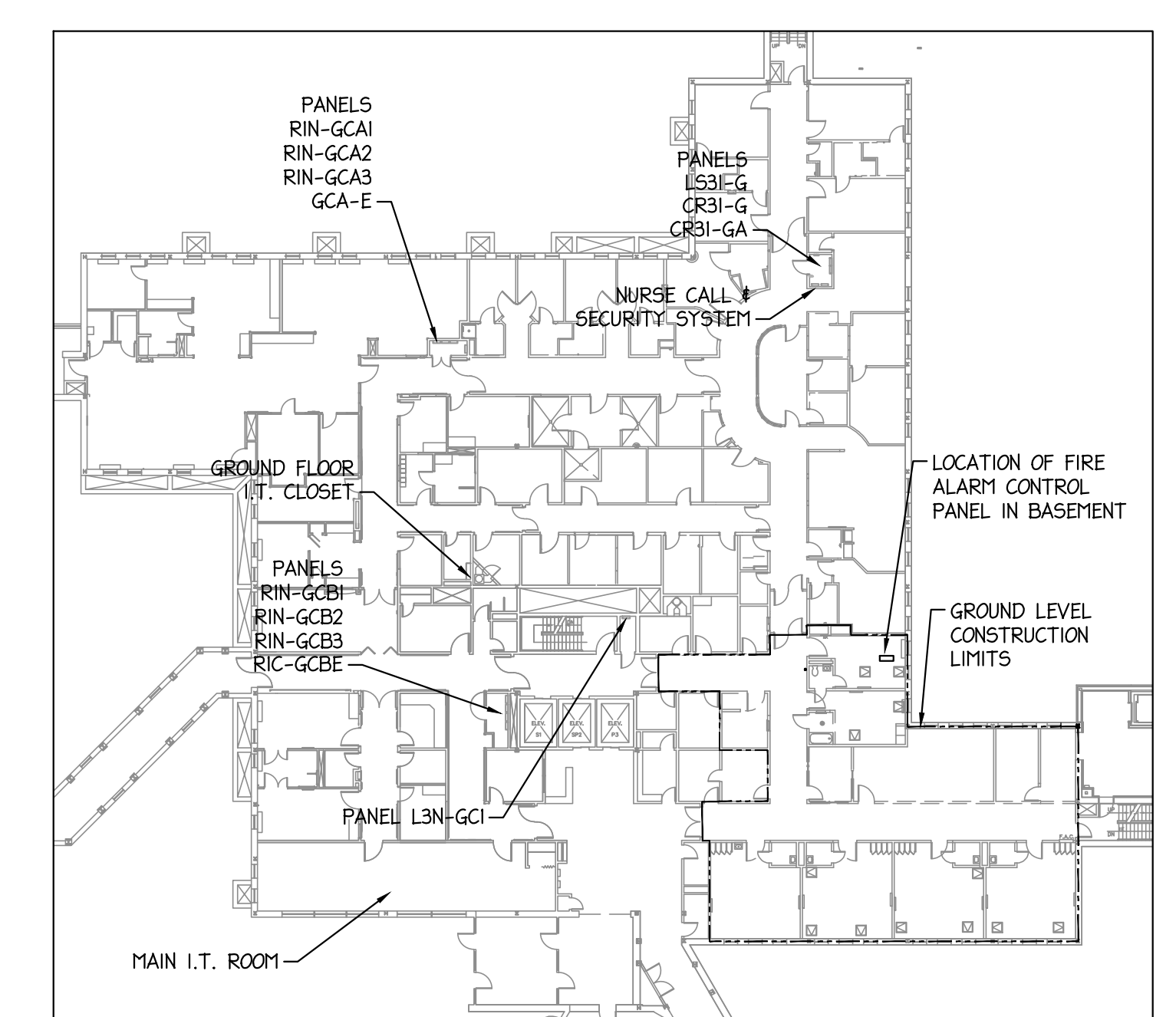
ELECTRICAL DEMOLITION WORK LEGEND:	
-----	EXISTING ELECTRICAL TO BE DEMOLISHED
—————	EXISTING ELECTRICAL TO REMAIN

GENERAL ELECTRICAL DEMOLITION NOTES:

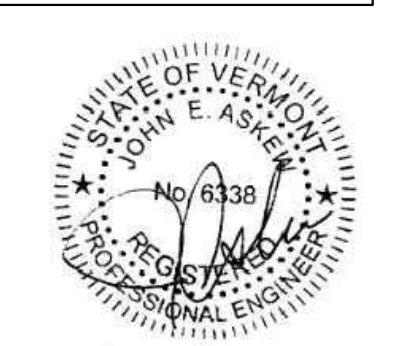
1. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING.
2. LEVEL 1 WORK DONE IN TWO PHASES. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING. COORDINATE WORK WITH OTHER CONTRACTORS IN AREAS WHERE EXISTING DEVICES ARE TO REMAIN, MODIFY EXISTING CIRCUITS AS NEEDED TO MAINTAIN POWER TO REMAINING RELEVANT DEVICES. REPAIR OR REPLACE EXISTING ELECTRICAL ROOM AREAS, INCLUDING CORRIDOR SIDE OF WALLS, AND EXISTING ICU
3. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING.
4. REMOVE AND WIRE ELECTRICAL CIRCUITING, TELECOM CABLEING, PUBLIC ADDRESS CABLEING AND ALL ASSOCIATE HARDWARE SHOWING AS DEPOSED TO BE REMOVED IN ITS ENTIRETY. REMOVE PUBLIC ADDRESS SYSTEMS, INCLUDING EXISTING SPEAKERS, CEILING REPAIR AND REINSTALL AS SHOWN ON NEW WORK. DRAIN EXISTING SEPARATE CIRCUITING TO BE REPLACED. EXTEND AS NEEDED NEW OR RELOCATED DEVICE. TYPICAL THROUGHOUT:
5. REMOVE ALL FIRE ALARM SYSTEMS. REMOVE ALL DEVICES WHERE SHOWN. DEVICES TO BE REUSED AS PART OF NEW WORK. DETECTORS SHALL BE PROTECTED AGAINST DUST DURING CONSTRUCTION. TYPICAL THROUGHOUT:
6. ALL BATTERY POWERED CENTRAK DEVICES IN PATIENT ROOMS TO BE REMOVED AND RETURNED TO HOSPITAL. TYPICALLY 4 (4) PER BED. REMOVE ALL UNIT AT THE END OF THE CORRIDOR. REMOVE ALL DEVICES FOR EXAM ROOMS (TYPICALLY 2) TO BE REMOVED, NOT CENTRAK DEVICES ("C") IN CORRIDORS TO BE REMOVED AND RETURNED TO HOSPITAL. REMOVE ALL HUBB DEVICES (APPROXIMATELY 10) CABLES BACK TO SOURCE.
7. ALL ANTENNA DEVICES ("A"), WIFI HUBBS ("WIFI"), HANDWANDS ("H") PATIENT MONITORING ("P") TO BE REMOVED AND RETURNED TO HOSPITAL. REMOVE ALL DEVICES TO SOURCE. SEE NEW WORK FOR DEVICES TO BE REINSTALLED.
8. EXISTING HANDWAND SYSTEM TO REMAIN IN SERVICE. MOVE AS NEEDED TO ACCORDANCE WITH SOURCE.
9. EXISTING PACS SYSTEM TO BE REUSED. NEW SECURITY DEVICES INTO EXISTING SYSTEM. SEE E6-06.
10. LEVEL 1 WORK DONE IN TWO PHASES. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING. COORDINATE WORK WITH OTHER CONTRACTORS IN AREAS WHERE EXISTING DEVICES ARE TO REMAIN, MODIFY EXISTING CIRCUITS AS NEEDED TO MAINTAIN POWER TO REMAINING RELEVANT DEVICES. REPAIR OR REPLACE EXISTING ELECTRICAL ROOM AREAS, INCLUDING CORRIDOR SIDE OF WALLS, AND EXISTING ICU

△ 22521510、51525210、11、225101、152101、112550

1. EXISTING NURSE CALL SERVER AT NURSE STATION TO BE REMOVED PART OF THIS PROJECT. MAINTAIN SERVER DURING CONSTRUCTION ACCOMMODATE AREAS NOT IMPACTED BY CONSTRUCTION. EXISTING SERVERS TO BE FED INTO NEW DATA RACK IN EXISTING ROOM TO REMAIN NURSE CALL IN ROOM 162. RELOCATE SERVER TO ROOM COORDINATE WITH OWNER.
2. EXISTING NURSE CALL DATA RACK IN EXISTING IT ROOM TO BE REMOVED. ALL SERVICES HAVE BEEN REMOVED FROM EXISTING IT RACKS. REMOVE ALL IT EQUIPMENT AND RACKS IN THIS ROOM AND SUBMIT O&M TO OWNER.
3. NEW NURSE CALL SYSTEM TO BE PROVIDED FOR RENOVATED AREAS LOCATED IN NEW IT ROOM. EXISTING NURSE CALL TO REMAIN IN SE FOR EXISTING TO REMAIN AREAS SERVED FROM THIS EXISTING NURSE CALL SYSTEM.
4. EXISTING (3) 100 PAIR CAT5 CABLES TO GROUND FLOOR BELOW TO BE REMOVED. SEE TELECOM RISER DIAGRAM ON E-807.
5. EXISTING DATA CABLES TO BE REMOVED FROM IT ROOM TO BE REPLACED. SEE TELECOM RISER DIAGRAM ON E-807.
6. EXISTING MASSIMO, PATIENT MONITORING, PA (PUBLIC ADDRESS) SYSTEM EQUIPMENT, VIDEO MONITORING SYSTEM IN EXISTING IT ROOM TO BE REMOVED. NEW NURSE CALL SYSTEM, PATIENT MONITORING SYSTEM, REINSTALLED, TESTED, ETC., AS INDICATED IN SPECIFICATIONS FOR COMMUNICATIONS AND PUBLIC ADDRESS SYSTEMS.
7. EXISTING NURSE CALL SYSTEM TO BE REMOVED AS NEEDED TO SUPPORT AREAS NOT INCLUDED IN CONSTRUCTION WORK. SYSTEM REMAIN OPERATIONAL UNTIL ALL WORK COMPLETE AND ALL AREAS ASSOCIATED WITH THE EXISTING NURSE CALL SYSTEM HAVE BEEN REMOVED TO NEW NURSE CALL SYSTEM.
8. EXISTING BAR CODE DEVICE AND RECEPTACLE IN CEILING TO BE REMOVED. EXISTING IDENTIFICATION BAR CODE DEVICE TO BE REINSTALLED DURING BOARDING. COORDINATE ALL WORK WITH OWNER/ARCHITECT.
9. EXISTING PANEL RIN-ICAI TO BE REPLACED. BREAKERS BELOW PANELBOARD TO BE REMOVED. COORDINATE ALL WORK WITH OWNER/ARCHITECT. HOT TAPS TO BE REPLACED.
10. EXISTING DOMESTIC HOT WATER HEATER AND RECIRC PUMP INSTALLED AT BEGINNING OF DEVELOPMENT. COORDINATE REMOVAL WITH PLUMBING CONTRACTOR.
11. ABANDONED NURSE CALL EQUIPMENT TO BE REMOVED IN ITS ENTIRETY. IT IS TO BE REJECTED. EXISTING CIRCUIT TO BE REUSED.
12. RELOCATE IN-WIFI DEVICE TO CORRIDOR.
13. EXISTING VIDEO MONITORING DEVICE IN CEILING TO BE REMOVED. NEW VIDEO MONITORING SYSTEM TO BE REINSTALLED DURING BOARDING WORK PHASE. COORDINATE ALL WORK WITH OWNER/ARCHITECT.
14. ALL DATA JACKS IN NICU TO BE REPLACED WITH NEW DATA OUTPUT CABLES CABLE TO NEWMAN TRN ROOM. EACH NEW DATA OUTPUT IN NICU JACKS WILL BE REPLACED WITH NEW DATA TYPES OF (CAT5 OUTLETS (216 DATA JACKS/216 CABLES).



2 GROUND LEVEL LOCATION PLAN
1/32" = 1' 0"



① ELECTRICAL GROUND FLOOR DEMOLITION PLAN
1/4" = 1' 0"

[illegible]

<p><u>Mechanical, Plumbing & Electrical Engineering</u> L.N. Consulting 208 Flynn Avenue Suite 2J Burlington, VT 05401 802-655-1753</p>	<p><u>Construction Cost Estimating & Scheduling</u> VJS Construction Consultants 595 Dorr Street, Suite #5 South Burlington, VT 05403 802-658-6100</p>
<p><u>Hazardous Materials</u> ATC Associates 171 Commerce Street Williston, VT 05495 802-862-1980</p>	<p><u>Structural Engineering</u> Engineering Ventures 208 Flynn Avenue, Suite 2A Burlington, VT 05401 802-863-6225</p>

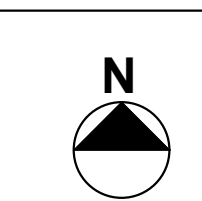
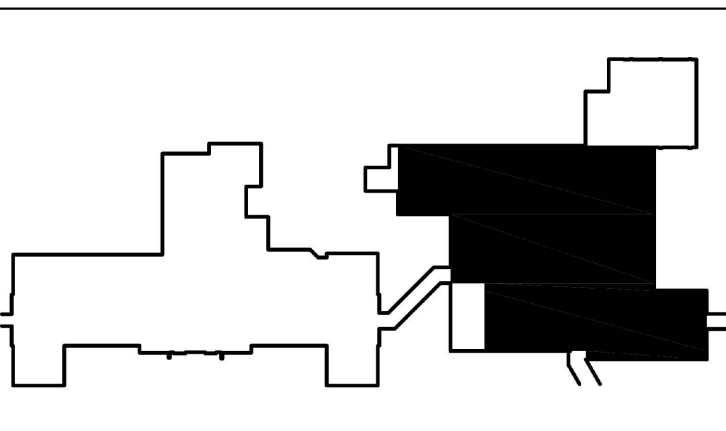
<p><u>Commissioning Services</u> CX Associates 110 Main Street Burlington, VT 05401 802-861-2715</p>	<p><u>Life Safety Consultant</u> Jensen-Hughes 1661 Worcester Road Suite 501 Framingham, MA</p>
<p><u>Historic Preservation</u> Suzanne Jamele 1 High Street Plainfield, VT 05667 802-454-7825</p>	<p><u>Interior Signage Design</u> Creative Signage 9101 51st Place College Park, MD 20740 301-345-3700</p>

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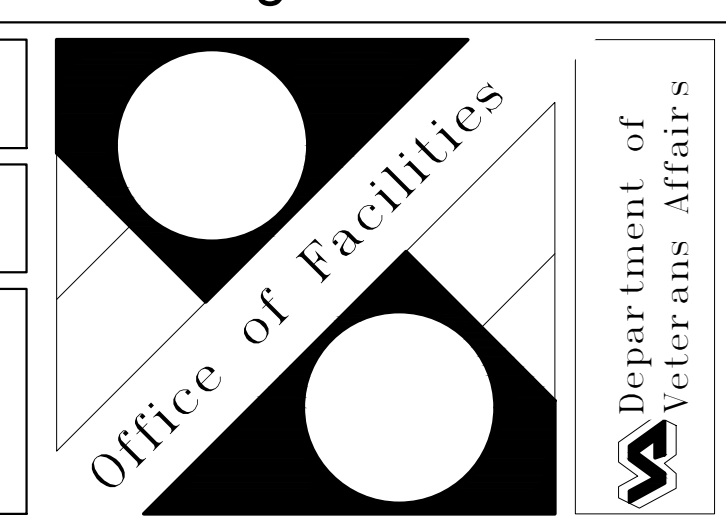
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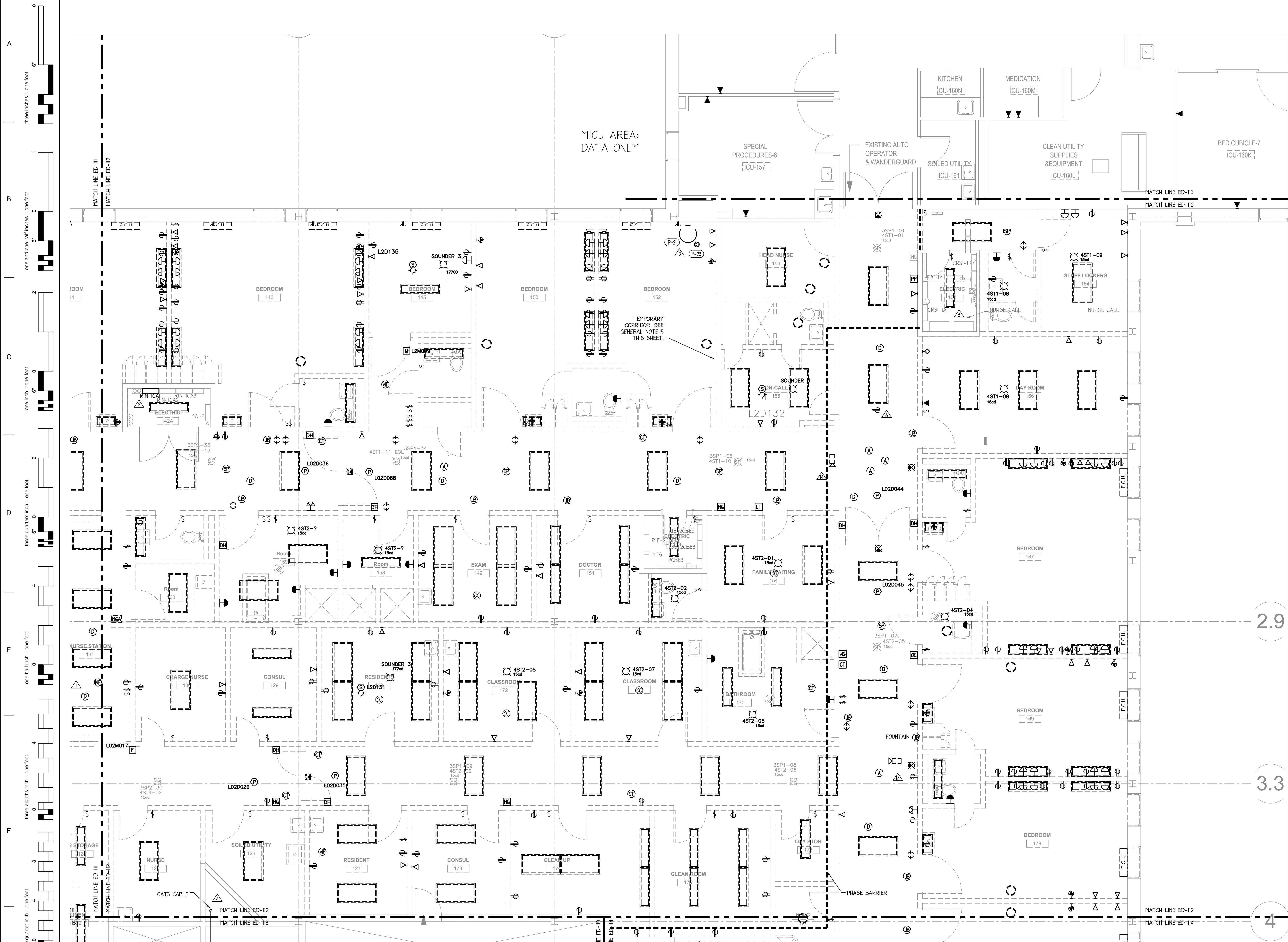


Drawing Title
ELECT. - GROUND FLOOR DEMOLITION PLAN
Approved By: Approver
Approved By: Approver
Approved By: Approver

Project Title	
INPATIENT WARD RENOVATION	
Building #	Scale
31	AS NOTED
Location	
VAMC - WHITE RIVER JUNCTION	

	Date 9/30/2022
	VA Project No. 405-13-104
	Drawing No. 31-ED-101





① ELECTRICAL FIRST FLOOR DEMOLITION PLAN
1/4" = 1' 0"

[illegible]

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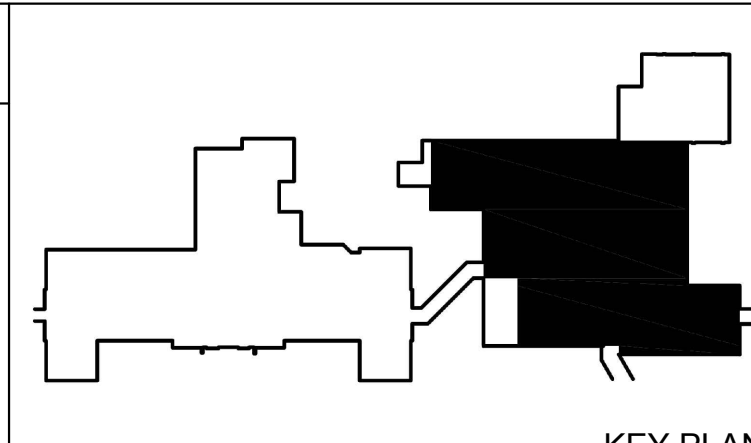
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 morrisswitzer
ENVIRONMENTS
FOR HEALTH
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Drawing Title
ELECT. - FIRST FLOOR
DEMOLITION PLAN

Approved By: Approver

Approved By: Approver

Approved By: Approver

Project Title	INPATIENT WARD RENOVATION
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Building #	Area	Material	Quantity	Unit	Cost	Notes
1	100	Concrete	100	cu yd	100.00	
2	200	Rebar	200	lb	200.00	
3	300	Formwork	300	sq ft	300.00	
4	400	Gravel	400	cu yd	400.00	
5	500	Asphalt	500	sq ft	500.00	
6	600	Brick	600	sq ft	600.00	
7	700	Paint	700	gal	700.00	
8	800	Plaster	800	sq ft	800.00	
9	900	Insulation	900	sq ft	900.00	
10	1000	Roofing	1000	sq ft	1000.00	
11	1100	Windows	1100	sq ft	1100.00	
12	1200	Doors	1200	sq ft	1200.00	
13	1300	Handrails	1300	sq ft	1300.00	
14	1400	Lighting	1400	sq ft	1400.00	
15	1500	Security	1500	sq ft	1500.00	
16	1600	Landscaping	1600	sq ft	1600.00	
17	1700	Signage	1700	sq ft	1700.00	
18	1800	Storage	1800	sq ft	1800.00	
19	1900	Office	1900	sq ft	1900.00	
20	2000	Warehouse	2000	sq ft	2000.00	
21	2100	Garage	2100	sq ft	2100.00	
22	2200	Driveway	2200	sq ft	2200.00	
23	2300	Pool	2300	sq ft	2300.00	
24	2400	Deck	2400	sq ft	2400.00	
25	2500	Patio	2500	sq ft	2500.00	
26	2600	Staircase	2600	sq ft	2600.00	
27	2700	Balcony	2700	sq ft	2700.00	
28	2800	Porch	2800	sq ft	2800.00	
29	2900	Walkway	2900	sq ft	2900.00	
30	3000	Driveway	3000	sq ft	3000.00	
31	3100	Pool	3100	sq ft	3100.00	
32	3200	Deck	3200	sq ft	3200.00	
33	3300	Patio	3300	sq ft	3300.00	
34	3400	Staircase	3400	sq ft	3400.00	
35	3500	Balcony	3500	sq ft	3500.00	
36	3600	Porch	3600	sq ft	3600.00	
37	3700	Walkway	3700	sq ft	3700.00	
38	3800	Driveway	3800	sq ft	3800.00	
39	3900	Pool	3900	sq ft	3900.00	
40	4000	Deck	4000	sq ft	4000.00	
41	4100	Patio	4100	sq ft	4100.00	
42	4200	Staircase	4200	sq ft	4200.00	
43	4300	Balcony	4300	sq ft	4300.00	
44	4400	Porch	4400	sq ft	4400.00	
45	4500	Walkway	4500	sq ft	4500.00	
46	4600	Driveway	4600	sq ft	4600.00	
47	4700	Pool	4700	sq ft	4700.00	
48	4800	Deck	4800	sq ft	4800.00	
49	4900	Patio	4900	sq ft	4900.00	
50	5000	Staircase	5000	sq ft	5000.00	
51	5100	Balcony	5100	sq ft	5100.00	
52	5200	Porch	5200	sq ft	5200.00	
53	5300	Walkway	5300	sq ft	5300.00	
54	5400	Driveway	5400	sq ft	5400.00	
55	5500	Pool	5500	sq ft	5500.00	
56	5600	Deck	5600	sq ft	5600.00	
57	5700	Patio	5700	sq ft	5700.00	
58	5800	Staircase	5800	sq ft	5800.00	
59	5900	Balcony	5900	sq ft	5900.00	

31 _____

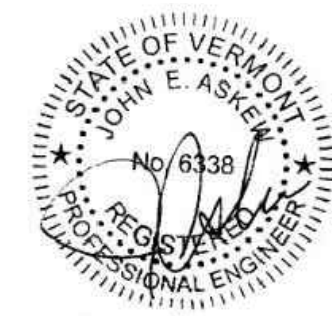
VAMC - WHITE RIVER JUNCTION

Date	9/30/2022
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VA Project No.
405-13-104

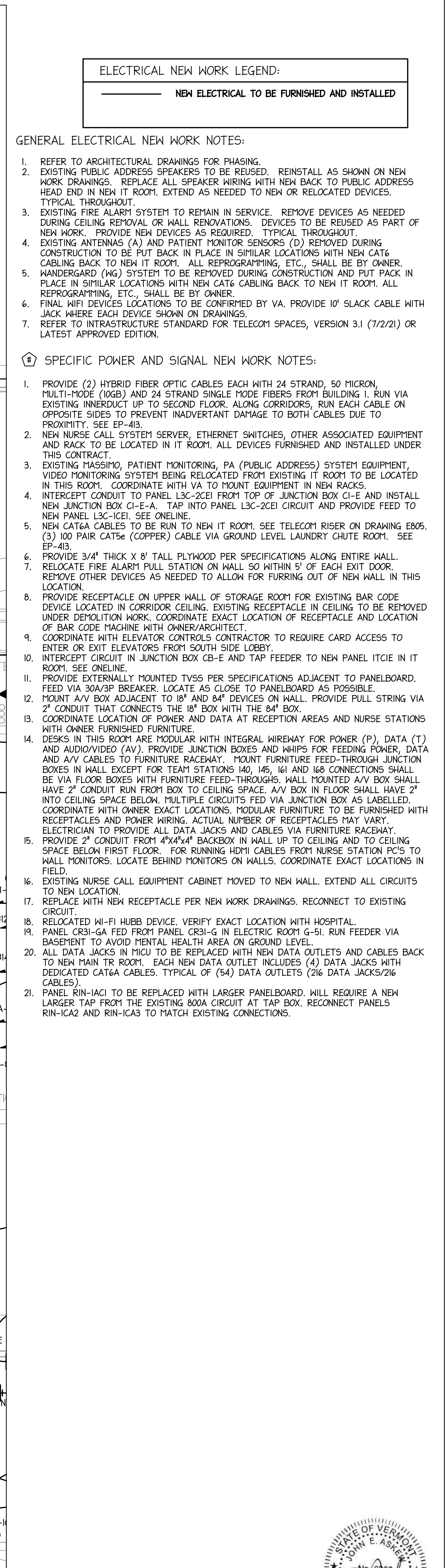
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31-ED-112



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Department of
Veterans Affairs



① ELECTRICAL FIRST FLOOR NEW WORK PLAN
1/4" = 1' 0"

[illegible]

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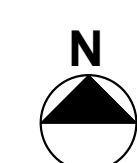
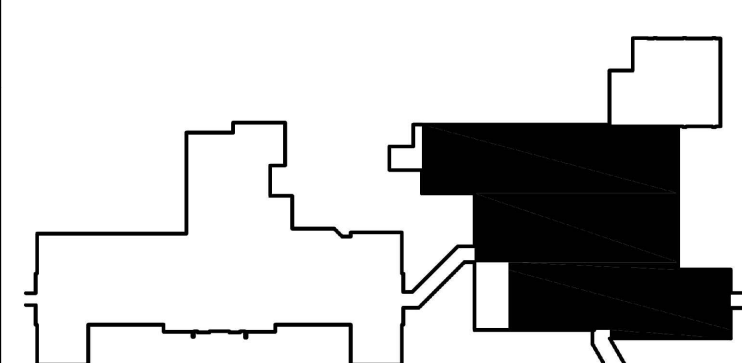
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ARCHITECT



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Drawing Title
ELECT. - FIRST FLOOR
NEW POWER/SIGNAL PLAN

Approved By: Approver

Approved By: Approver

Approved By: Approver

Project Title
**INPATIENT WARD
RENOVATION**

Building #

31	AS NOTED
Location VAMC - WHITE RIVER JUNCTION	

Scale
AS NOTED

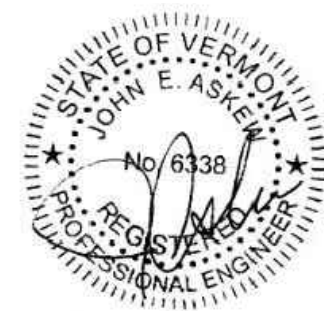
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9/30/2022

VA Project No.
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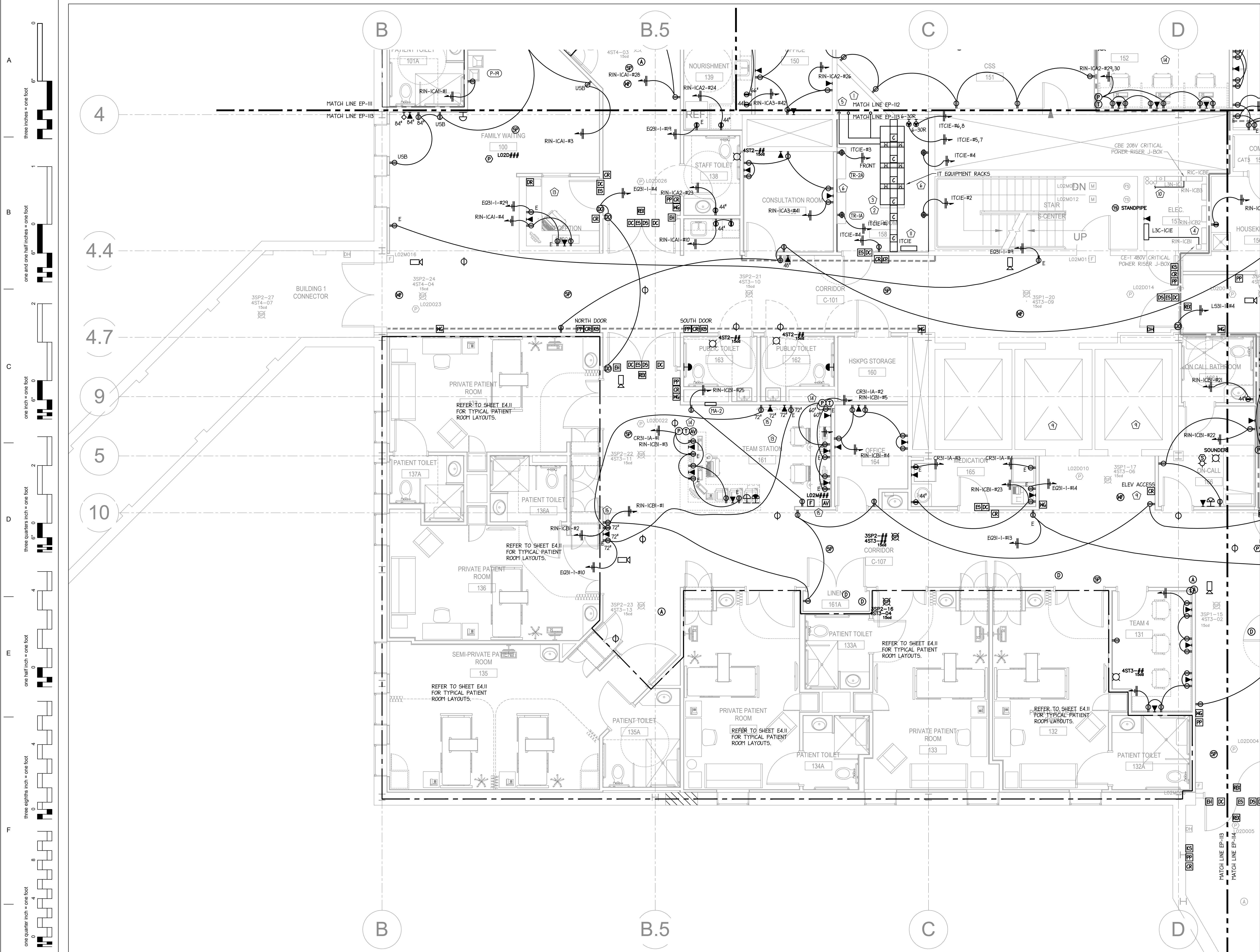
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① ELECTRICAL FIRST FLOOR NEW WORK PLAN
1/4" = 1' 0"



① ELECTRICAL FIRST FLOOR NEW WORK PLAN
1/4" = 1' 0"

ELECTRICAL NEW WORK LEGEND:

———— NEW ELECTRICAL TO BE FURNISHED AND INSTALLED

GENERAL ELECTRICAL NEW WORK NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING.
2. EXISTING PUBLIC ADDRESS SPEAKERS TO BE REUSED. REINSTALL AS SHOWN ON NEW WORK DRAWINGS. REPLACE ALL SPEAKER WIRING WITH NEW BACK TO PUBLIC ADDRESS HEAD END IN NEW IT ROOM. EXTEND AS NEEDED TO NEW OR RELOCATED DEVICES.
3. NORMAL THROUGHOUT.
4. EXISTING FIRE ALARM SYSTEM TO REMAIN IN SERVICE. REMOVE DEVICES AS NEEDED DURING CEILING REPAIRS OR WALL RENOVATIONS. REMOVE DEVICES AS PART OF NORMAL THROUGHOUT.
5. PROVIDE NEW DEVICES AS NEEDED. NORMAL THROUGHOUT.
6. EXISTING ANTENNAS (A) AND PATIENT MONITOR SENSORS (D) REMOVED DURING CONSTRUCTION TO BE PUT BACK IN PLACE IN SIMILAR LOCATIONS WITH NEW CAT6 CABELING. BACK TO NEW IT ROOM. ALL REPROGRAMMING, ETC., SHALL BE BY OWNER.
7. WANDERGARD (WG) SYSTEM TO BE REMOVED DURING CONSTRUCTION AND PUT PCK IN PLACE IN SIMILAR LOCATIONS WITH NEW CAT6 CABELING BACK TO NEW IT ROOM. ALL REPROGRAMMING, ETC., SHALL BE BY OWNER.
8. FINAL CABLE RUNS LOCATIONS TO BE DETERMINED BY VA. PROVIDE 10' SLACK CABLE WITH JACK WHERE EACH DEVICE SHOWN ON DRAWINGS.
9. REFER TO INFRASTRUCTURE STANDARD FOR TELECOM SPACES, VERSION 3.1 (7/22) OR LATEST APPROVED EDITION.

 SPECIFIC POWER AND SIGNAL NEW WORK NOTES:

1. PROVIDE (2) HYBRID FIBER OPTIC CABLES EACH WITH 24 STRAND, 50 MICRON, OM3, PL-102S (OS2) AND 24 STRAND SINGLE MODE FIBERS FROM BUILDING 1A IN VIA EXISTING INTERDUCT UP TO SECOND FLOOR, ALONG CORRIDORS, RUN EACH CABLE ON OPPOSITE SIDES TO PREVENT INADVERTANT DAMAGE TO BOTH CABLES DUE TO BENDING. SEE EP-40.
2. NEW NURSE CALL SYSTEM SERVER, ETHERNET SWITCHES, OTHER ASSOCIATED EQUIPMENT AND RACK TO BE LOCATED IN IT ROOM. ALL DEVICES FURNISHED AND INSTALLED UNDER THIS CONTRACT.
3. EXISTING MASSIMO PATIENT MONITORING, PA (PUBLIC ADDRESS) SYSTEM EQUIPMENT, VIDEO MONITORING SYSTEM BEING RELOCATED FROM EXISTING IT ROOM TO BE LOCATED IN THIS ROOM. COORDINATE WITH VIA TO MOUNT EQUIPMENT IN NEW RACKS.
4. COORDINATE WITH CONTRACTOR TO LOCATE AND INSTALL THE RACKS AND INSTALL NEW JUNCTION BOX C1-E-A. TAP INTO PANEL 13C-2CEI CIRCUIT AND PROVIDE FEED TO NEW PANEL 13C-1CEI. SEE ONLINE.
5. NEW CAT6A CABLES TO BE RUN TO NEW IT ROOM. SEE TELECOM RISE ROOM DRAWING 605S, (3) 50 PAIR CAT6A CABLES, (3) VIA GROUND LEVEL LAUNDRY CAGE ROOM. SEE EP-43.
6. PROVIDE 3/4" THICK X 8" TALL PLYWOOD PER SPECIFICATIONS ALONG ENTIRE WALL, WITH 1/2" FIRE RATED PLY. FIRE RATED JOINTS ON WALL 1/2" WITHIN 5' OF EACH EXIT DOOR. REMOVE OTHER DEVICES AS NEEDED TO ALLOW FOR FURRING OUT OF NEW WALL IN THIS LOCATION.
7. REMOVE RECEPTACLE ON UPPER WALL OF STORAGE ROOM FOR EXISTING BAR CODE DEVICE LOCATED IN CORRIDOR CEILING, EXISTING RECEPTACLE IN CEILING TO BE REMOVED UNDER DEMOLITION WORK. COORDINATE EXACT LOCATION OF RECEPTACLE AND LOCATION OF BAR CODE MACHINE WITH OWNER/ARCHITECT.
8. COORDINATE WITH ELEVATOR CONTRACTOR TO REQUIRE CABLE ACCESS TO ENTER OR EXIT ELEVATORS FROM SOUTH SIDE LOBBY.
9. INTERCEPT CIRCUIT IN JUNCTION BOX CB-E AND TAP FEEDER TO NEW PANEL ITCE IT IN IT ROOM. SEE ONLINE.
10. PROVIDE EXTERNALLY MOUNTED TVSS PER SPECIFICATIONS ADJACENT TO PANELOBARD, FEED VIA 30A/3P BREAKER, LOCATE AS CLOSE TO PANELOBARD AS POSSIBLE.
11. MOUNT ANY BOX ADJACENT TO PANELOBARD. DEVICES ON WALL. PROVIDE FULL STRING VIA CABLE THAT CONNECTS THE 10" BOX WITH THE 50" DRAWING.
12. COORDINATE LOCATION OF POWER AND DATA AT RECEPTION AREAS AND NURSE STATIONS WITH OWNER FURNISHED FURNITURE.
13. PROVIDE THIS ROOM IS THIS ROOM IS EQUIPPED WITH INTEGRAL WIRINGWAY FOR POWER (P), DATA (D) AND AUDIO/VIDEO (AV). PROVIDE JUNCTION BOXES AND WHIPS FOR FEEDING POWER, DATA AND AV CABLES TO FURNITURE RACKWAY. MOUNT FURNITURE FEED-THROUGH JUNCTION BOXES TO WALL EXTERIOR TO WALL. PROVIDE 1/2" WALL FEED-THROUGH BOXES TO WALL HAVE 2" FLOOR BOXES WITH FURNITURE FEED-THROUGHS, WALL MOUNTED AV BOX SHALL HAVE 2" CONDUIT RUN FROM BOX TO CEILING SPACE, AV BOX IN FLOOR SHALL HAVE 2" INTO CEILING SPACE BELOW, MULTIPLE CIRCUITS FEED VIA JUNCTION BOX AS LABELLED. PROVIDE 1/2" WALL EXTERIOR TO WALL. PROVIDE 1/2" WALL FEED-THROUGH BOXES TO WALL WITH RECEPTABLES AND POWER WIRING, ACTUAL NUMBER OF RECEPTABLES MAY VARY. ELECTRICIAN TO PROVIDE ALL DATA JACKS AND CABLES VIA FURNITURE RACKWAY.
14. PROVIDE 1/2" CONDUIT FROM 4" CONDUIT FROM 1/2" WALL UP TO 1/2" WALL FEED-THROUGH SPACE BELOW FIRST FLOOR. FOR RUNNING HDMI CABLES FROM NURSE STATION PC'S TO WALL MONITORS. LOCATE BEHIND MONITORS ON WALLS, COORDINATE EXACT LOCATIONS IN FIELD.
15. EXISTING NURSE CALL EQUIPMENT CABLEY MOVED TO NEW WALL, EXTEND ALL CIRCUITS TO NEW LOCATION.
16. REPLACE WITH NEW RECEPTACLE PER NEW LOCATION DRAWINGS, RECONNECT TO EXISTING CIRCUIT.
17. RELOCATED WI-FI HUBB DEVICE. VERIFY EXACT LOCATION WITH HOSPITAL.
18. PANEL CR31-G-40 FEED FROM PANEL CR31-G IN ELECTRIC ROOM G-51, RUN FEEDER VIA CONDUIT TO AVOID PENDING. SEE ONLINE.
19. ALL DATA JACKS IN TRUCU TO BE REPLACED WITH NEW DATA OUTLETS AND CABLES BACK TO NEW MAIN TR JACK ROOM. EACH NEW DATA OUTLET INCLUDES (4) DATA JACKS WITH DEDICATED CAT6A CABLES. TYPICAL OF (54) DATA OUTLETS (216 DATA JACKS/216 CABLES).
20. PANEL RIN-1AC1 TO BE REPLACED WITH LARGER PANELOBARD, WILL REQUIRE A NEW LARGER TAP TO EXISTING 800A CIRCUIT AT TAP BOX, RECONNECT PANELS RIN-1AC2 AND RIN-1AC3 TO MATCH EXISTING CONNECTIONS.



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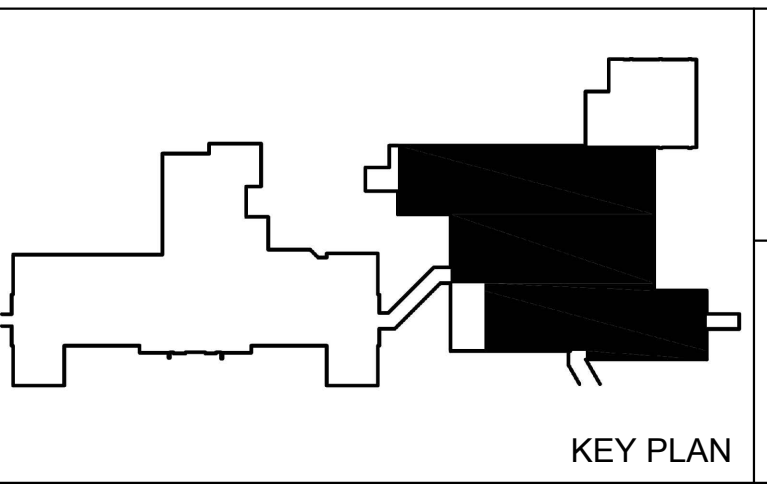
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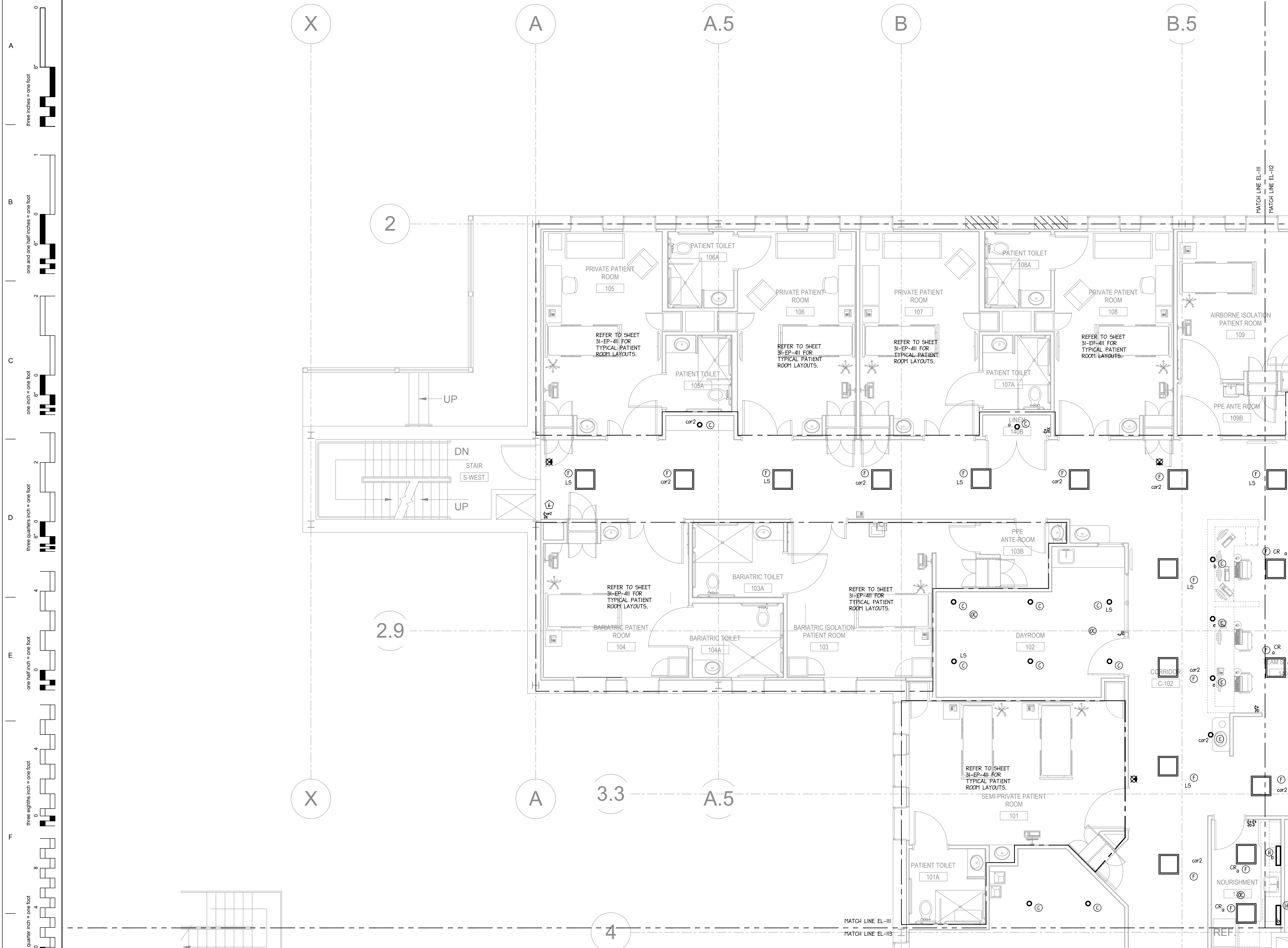


Drawing Title
ELECT. - DEDUCT ALT FIRST FLR NEW PWR PLAN
Approved By: Approver
Approved By: Approver
Approved By: Approver

Project Title	
INPATIENT WARD RENOVATION	
Building # 31	Scale AS NOTED
Location VAMC - WHITE RIVER JUNCTION	

Date	9/30/2022
VA Project No.	405-13-104
Drawing No.	31-EP-113





ELECTRICAL NEW WORK LEGEND:

- NEW ELECTRICAL TO BE FURNISHED AND INSTALLED
- EXISTING ELECTRICAL TO REMAIN

GENERAL ELECTRICAL NEW WORK NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING.
2. COORDINATE EXACT LOCATIONS OF LIGHTING WITH ARCHITECTURAL DRAWINGS.
3. REFER TO SPECIFICATIONS AND DETAILS FOR LIGHTING CONTROL.
4. ALL "LS" (LIFE SAFETY) LIGHTING ON EACH FLOOR FED FROM DEDICATED CIRCUIT IN LIFE SAFETY PANEL L3C-2CB3C ON PANEL 2 (NON-EMERGENCY LIGHTING). LIFE SAFETY LIGHTING (EACH) EACH FED FROM DEDICATED CIRCUITS FROM PANEL L3N-1CI ON FIRST FLOOR AND L3N-1CI ON GROUND FLOOR.
5. ALL "N" (NORMAL) LIGHTING ON EACH FLOOR FED FROM PANEL L3N-1CI ON FIRST FLOOR AND L3N-1CI ON GROUND FLOOR.
6. ALL "CR" (CRITICAL POWER) LIGHTING TO BE FED FROM NEW PANELBOARD L3C-1CI ON FIRST FLOOR.
7. NORTH WALL BE CONSIDERED AS NORTH AND SOUTH WALLS WILL BE CONSIDERED AS WEST AND EAST WALLS.
8. SEE PANEL SCHEDULES FOR LIGHTING CIRCUIT BREAKOUTS.

5 SPECIFIC LIGHTING NEW WORK NOTES:

1. ALL LIFE SAFETY ("LS") LIGHTING FOR PROJECT ON FIRST FLOOR TO BE FEED FROM EXISTING PANEL L35-2CB2B3.
2. NEW PANEL L34-1CEI FEED VIA TAB BOX IN ROOM 1B2, ALL CRITICAL ("CR") LIGHTING FOR PROJECT ON RENOVATED GROUND FLOOR AND FIRST FLOOR TO BE FEED FROM EXISTING L34-1CEI FEED.
3. ALL NORMAL POWER LIGHTING FOR PROJECT ON FIRST FLOOR TO BE FEED FROM EXISTING PANEL L3N-1C1.
4. ALL NORMAL POWER LIGHTING FOR PROJECT ON RENOVATED GROUND FLOOR TO BE FEED FROM EXISTING PANEL L3N-GC1.
5. THE NEW CORRIDOR G-8 LIGHTING ZONE "COR" 277V CIRCUIT TO BE FEED FROM EXISTING PANEL L3N-GC1 AND TO BE FEED FROM EXISTING LIFE SAFETY "LS" LIGHTING TIE TO EXISTING LS CIRCUIT.
6. EACH ZONE OF NORMAL CORRIDOR ("COR") LIGHTING TO BE FEED VIA A 277V LINE VOLTAGE KEYSWITCH WHERE SHOWN. THE "LS" LIGHTING SHALL BE FEED FROM EXISTING LS CIRCUIT KEYSWITCH NEXT TO "COR" SWITCH IN CORRIDOR C-106 ON EL-114.

① ELECTRICAL FIRST FLOOR NWE WORK PLAN
1/4" = 1' 0"

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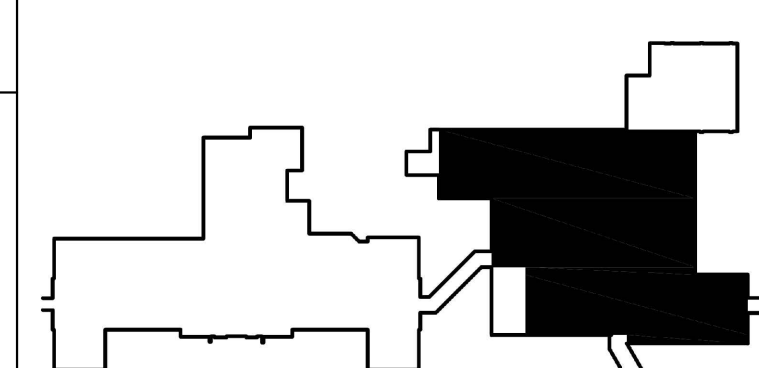
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KEY PLAN



Drawing Title
ELECT. - FIRST FLOOR
NEW LIGHTING PLAN

Approved By: Approver

Approved By: Approver

Approved By: Approver

Project Title	INPATIENT WARD RENOVATION
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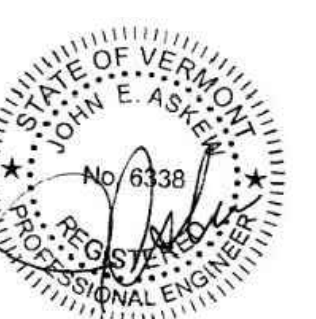
	Building #
	31

Location	VAMC - WHITE RIVER JUNCTION
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Date	9/30/2022
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VA Project No.
405-13-104

	Drawing No.
	31-EL-111

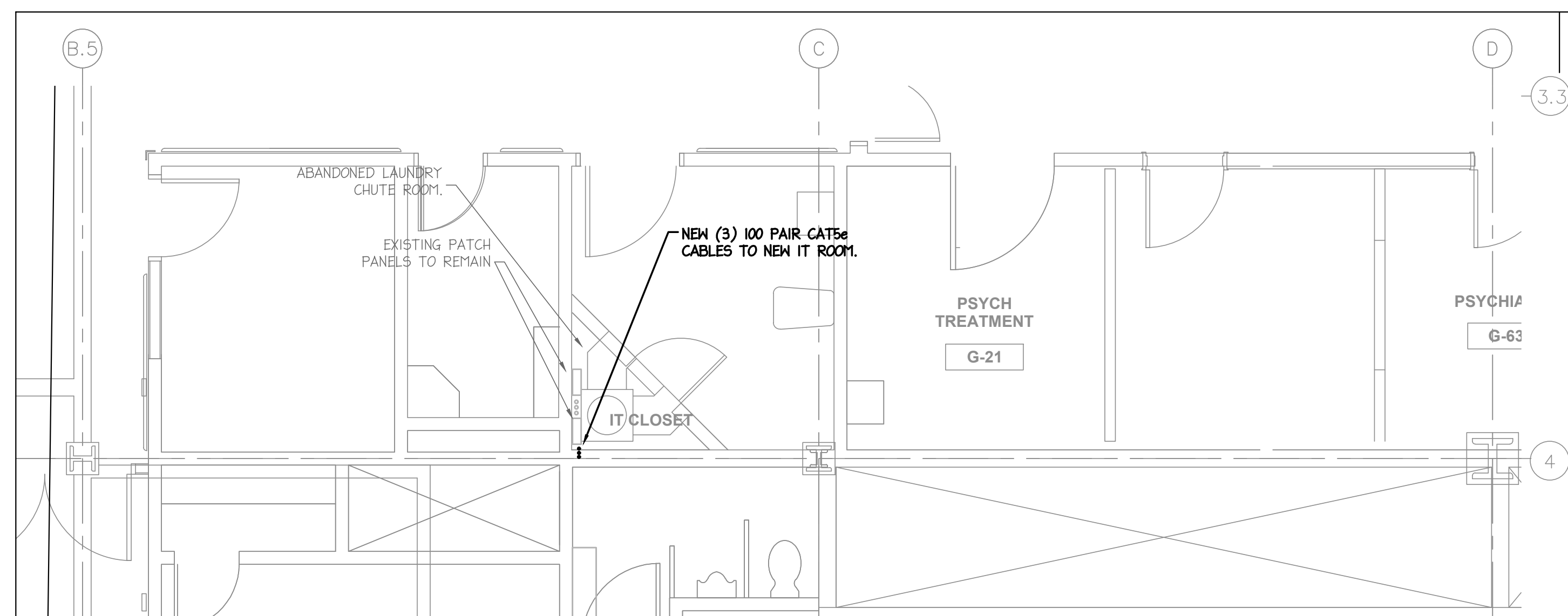
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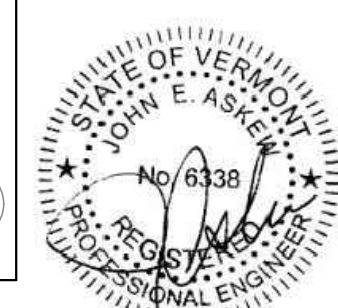
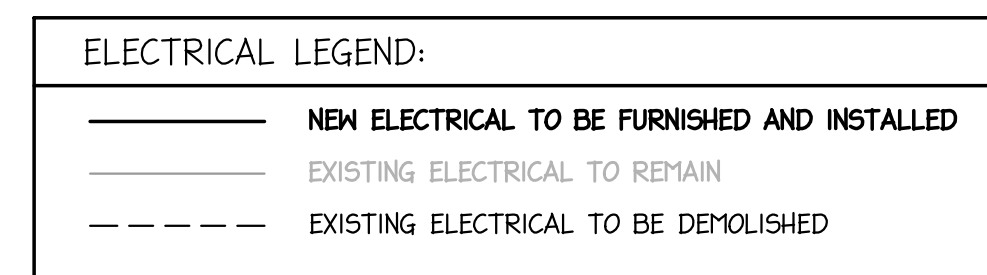


Department of Veterans Affairs



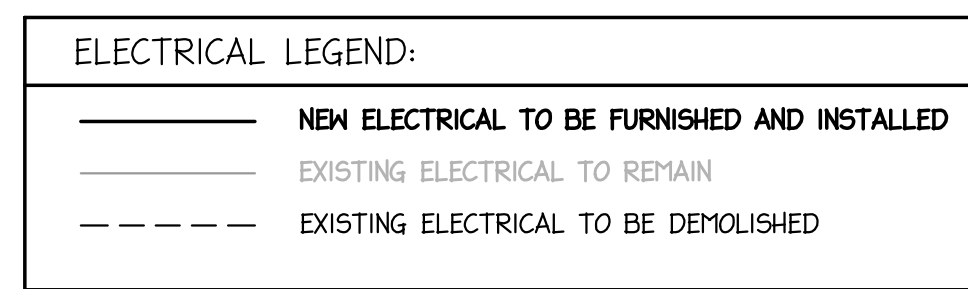














2 BLDG 31 GROUND FLOOR NEW WORK PLAN
1/4" = 1' 0"



Issued for Bidding, Permitting & Construction

Department of
Defense





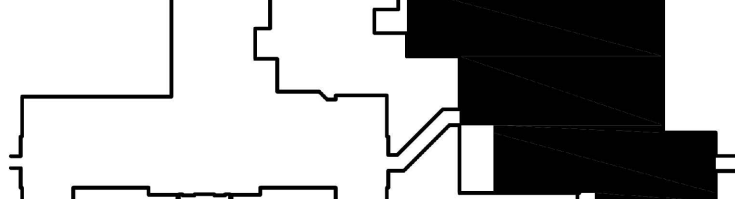
NEW NURSE CALL LEGEND	
SYMBOL	DESCRIPTION
	SINGLE PATIENT STATION WITH REMOTE BED CONNECTOR
	DOUBLE PATIENT STATION WITH REMOTE BED CONNECTOR
	LAVATORY STATION WITH PULL CORD AND BUTTON
	PRESENCE/CANCEL STATION
	AUXILIARY INPUT STATION
	AUDIO STATION BED CONNECTOR (ASBC)
	STAFF/DUTY STATION - CONFIGURED DUTY
	SUBSTATION ANNUNCIATOR
	CONSOLE MASTER STATION
	CORRIDOR DOME LIGHT
	CODE 1 STATION
	ENHANCED PATIENT BED STATION WITH CODE 1 AND STAFF ASSIST AND PILLOW SPEAKER

1. ELECTRICAL GENERAL NOTES:
2. ALL PHASING WITH OTHER ENTITIES.
3. ALL REFERENCES TO STANDARDS, PUBLICATIONS OR CODES IN THESE DRAWINGS AND WITHIN THE SPECIFICATIONS SHALL MEAN THE LATEST APPROVED EDITIONS.
4. REFER TO VA HOSPITAL CONSTRUCTION STANDARDS.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), ALL ELECTRICAL EQUIPMENT, TRANSFORMERS, AND LUMINAIRIES SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC.
6. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND RELATED ACCESSORIES NEEDED FOR THE COMPLETE INSTALLATION OF ALL WORK SHOWN ON THE DRAWINGS AND REQUIRED BY CODE.
7. COORDINATE ALL WORK WITH OTHER TRADES. PROVIDE A COORDINATION DRAWING TO THE ENGINEER, CONSTRUCTION MANAGER, AND ALL OTHER TRADES SHOWING THE LOCATION OF ALL DEVICES AND EQUIPMENT.
8. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY POWER AND LIGHTING DURING ALL PHASES OF THE WORK.
9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER AND HOSPITAL FACILITIES PROVIDE NOTIFICATION IN WRITING TO OWNER NO LESS THAN 15 CALENDAR DAYS PRIOR TO ANY SHUTDOWNS.
10. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL OFF HOURS LABOR REQUIRED TO COMPLETE DEMOLITION AND NEW WORK, AND ACCOMMODATE THE PROJECT SCHEDULE AND PHASING REQUIREMENTS.
11. ALL FINAL LOCATIONS AND ARRANGEMENTS OF LIGHTING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN.
12. ELECTRICAL GENERAL DEMOLITION NOTES:
13. NOTIFICATION OF SHUT-DOWN OF ANY SYSTEMS BY CONTRACTOR SHALL BE PROVIDED TO OWNER IN WRITING 15 CALENDAR DAYS PRIOR TO SHUT-DOWN. COORDINATE ALL SHUT-DOWNS WITH OWNER.
14. VERIFY CIRCUITS FEEDING DEVICES INDICATED FOR REMOVAL WILL NOT EFFECT THE PATIENT CARE AREA. IF CIRCUIT REMOVAL WILL EFFECT PATIENT CARE AREA THEN INDICATE TO PROJECT MANAGER.
15. REMOVE ALL CIRCUITS EFFECTED BY DEMOLITION. THIS MAY REQUIRE ADDITIONAL CONDUIT AND CONDUIT FITTINGS OVER EXISTING CONDUIT.
16. REMOVE ALL CONDUCTORS AND CONDUIT BACK TO LAST ACTIVE BRANCH FOR DEVICES THAT ARE TO BE REMOVED. INCLUDE ALL ABANDON CONDUIT, WIRE AND HANGER IN ENTIRE RENOVATED AREA.
17. FIRE ALARM DEVICES SHALL REMAIN OPERATIONAL AT ALL TIMES IN NON-CONSTRUCTION DESIGNATED AREAS. ALL DEVICES SHALL BE PROTECTED AGAINST DUST OR DAMAGE DURING CONSTRUCTION.
18. DEMO ALL CONDUIT HANGERS AND WIRES BACK TO LAST ACTIVE BRANCH.
19. DECOMMISSIONING OF ANY FIRE ALARM DEVICES TO INCLUDE PROGRAMMING OF FIRE ALARM SYSTEM.
20. ELECTRICAL CONTRACTOR TO PROVIDE FIRE MATCH SERVICES WHEN DISABLING FIRE ALARM SYSTEM.
21. RETYPE PANEL SCHEDULE TO REFLECT REMOVED CIRCUITS.
22. REMOVE ALL CIRCUITS AFFECTED BY DEMO.
23. ALL DEVICES NOTED TO BE REMOVED AND REINSTALLED SHALL BE CLEANED, TESTED AND VERIFIED TO BE IN OPERATIONAL CONDITION PRIOR TO REINSTALLATION. THIS INCLUDES ALL DEVICES NOTED TO BE MOVED ONLY AS NEEDED TO ACCOMMODATE CONSTRUCTION.

	DIRECT / INDIRECT
<input checked="" type="checkbox"/>	EXIT LIGHT
GENERAL NOTES:	
1. ON PLAN DRAWINGS, 2. PATIENT BED LIGHTS 3. WHERE AVAILABLE FOR	

[illegible]

PANEL SCHEDULE: R4E-PPI											
208Y/120 225A E: 10 KAIC 3PH 4W		NEUTRAL: NEUTRAL RATING: MAIN TYPE: MAIN RATING:		COPPER 100% H.C.B. 150A		LOCATION: MAKE: MODEL NUMBER: MOUNTING TRIM STYLE:		PENTHOUSE P-01 - - SURFACE ---		FED FROM: P4E-PPI	
DOOR UNIT	(TR-25)	CKT. BKFR.	2P-25A	A	B	C	CKT. NO.	A	B	C	LOAD DESCRIPTION
							1	2			2P-25A A/C SPLIT OUTDOOR UNIT (TR-25)
							3	4			
							5	6			
							7	8			IP-20A SPARE
							9	10			IP-20A SPARE
							11	12			IP-20A SPARE
							13	14			IP-20A SPARE
							15	16			IP-20A SPARE
							17	18			IP-20A SPARE
							19	20			IP-20A SPARE
							21	22			IP-20A SPARE
							23	24			IP-20A SPARE
							25	26			IP-20A SPARE
							27	28			IP-20A SPARE
							29	30			IP-20A SPARE
			TOTAL	0.0	0.0	0.0			0.0	0.0	0.0

<p><u>Commissioning Services</u> Associates 10 Main Street Burlington, VT 05401 2-861-2715</p>	<p><u>Life Safety Consultant</u> Jensen-Hughes 1661 Worcester Road Suite 501 Framingham, MA</p>	<p>ARCHITECT</p> <div>  <p>multisweller ENVIRONMENTS FOR HEALTH ARCHITECTURE</p> </div> <p>185 Talcott Road Williston, VT 05495</p> <p>T: 802.878.8341 www.e4harchitecture.com</p>	
<p><u>Historic Preservation</u> Suzanne Jamele 100 High Street Burlington, VT 05667 2-454-7825</p>	<p><u>Interior Signage Design</u> Creative Signage 9101 51st Place College Park, MD 20740 301-345-3700</p>		<p>KEY PLAN</p>

SCHEDULE: ITICE

NEUTRAL: COPPER
NEUTRAL RATING: 100A
MAIN TYPE: M.C.B.
MAIN RATING: 100A


LOCATION: MAKE:
MODEL NUMBER: -
MOUNTING: SURFACE
TRIM STYLE: ---

ELEC. RM. 158

FED FROM: TEL. (B-03A)

CKT. BKR.	A	B	C	CKT. NO.	A	B	C	CKT. BKR.	LOAD DESCRIPTION
IP-20A				1	2			IP-20A	IT ROOM RECEPT
IP-20A				3	4			IP-20A	IT ROOM RECEPT
2P-20A				5	6			2P-20A	IT ROOM RECEPT
				7	8				
IP-30A				9	10			IP-30A	SPARE
IP-20A				11	12			IP-20A	NURSE CALL
IP-20A				13	14			IP-20A	MASSIMO
IP-20A				15	16			IP-20A	PUBLIC ADDRESS SYSTEM
IP-20A				17	18			IP-20A	SPARE
IP-20A				19	20			IP-20A	SPARE
IP-20A				21	22			IP-20A	SPARE
IP-20A				23	24			IP-20A	SPARE
IP-20A				25	26			IP-20A	SPARE
IP-20A				27	28			IP-20A	SPARE
IP-20A				29	30			IP-20A	SPARE
TOTAL	0.0	0.0	0.0		0.0	0.0	0.0	TOTAL	

ELECTRICAL PANEL SCHEDULE: L3C-1CIE													
VOLTAGE:		480/277V		NEUTRAL:		COPPER		LOCATION:		ELEC. RM. 144		FED FROM: TEL. (B-03A)	
AMPERAGE:		100A		NEUTRAL RATING:		100%		MAKE:		-			
INTERMPTANCE:		14 KAIC		MAIN TYPE:		M.C.B.		MODEL NUMBER:		-			
PHASE:		3PH		MAIN RATING:		60A		MOUNTING:		SURFACE			
WIRE:		4#						TRIP STYLE:		HINGED DOOR IN DOOR			
LOAD DESCRIPTION		CKT. BKR.	A	B	C	CKT. NO.	A	B	C	CKT. BKR.	LOAD DESCRIPTION		
CR LIGHTING LEVEL 1 - NORTH		IP-20A				1	2			IP-20A	CR LIGHTING LEVEL 1 - SOUTH		
CR LIGHTING GROUND LEVEL		IP-20A				3	4			IP-20A	SPARE		
SPARE		IP-20A				5	6			IP-20A	SPARE		
SPARE		IP-20A				7	8			IP-20A	SPARE		
SPARE		IP-20A				9	10			IP-20A	SPARE		
SPARE		IP-20A				11	12			IP-20A	SPARE		
SPARE		IP-20A				13	14			IP-20A	SPARE		
SPARE		IP-20A				15	16			IP-20A	SPARE		
SPARE		IP-20A				17	18			IP-20A	SPARE		
SPARE		IP-20A				19	20			IP-20A	SPARE		
SPARE		IP-20A				21	22			IP-20A	SPARE		
SPARE		IP-20A				23	24			IP-20A	SPARE		
SPARE		IP-20A				25	26			IP-20A	SPARE		
SPARE		IP-20A				27	28			IP-20A	SPARE		
SPARE		IP-20A				29	30			IP-20A	SPARE		
NOTES:		TOTAL	0.0	0.0	0.0		0.0	0.0	0.0	TOTAL			
1. NEW PANELBOARD													
2. BREAK OUT "CR" LIGHTING CIRCUITING NORTH (CR LIGHTING FOR ROOFS ON EP-21), EP-21(2) AND SOUTH (CR LIGHTING FOR ROOFS ON EP-213-EP-214.)													
3. STUB UP CONDUIT THROUGH FLOOR TO GROUND LEVEL AND CEILING TO SECOND FLOOR FOR FUTURE CIRCUITS.													

Drawing Title ELECTRICAL - LEGENDS, NOTES AND SCHEDULES		Project Title INPATIENT WARD RENOVATION		Date 9/30/2022	
				VA Project No. 405-13-104	
Approved By:	Building # 31	Scale NONE	Drawing No. 31-E-601		
Approved By:	Location VAMC - WHITE RIVER JUNCTION				
Approved By:					Office



A

B

C

D

E

F

ELECTRICAL PANEL SCHEDULE: EXISTING PANEL RIN-GCB3												
VOLTAGE:	208Y/120	NEUTRAL:	COPPER	LOCATION:	ELEC. RM. G-05	FED FROM:	PIN-B01					
AMPERAGE:	225A	NEUTRAL RATING:	100%	MAKE:	-							
INTERRUPTANCE:	10 KAIC	MAIN TYPE:	M.L.O.	MODEL NUMBER:	-							
PHASE:	3PH	MAIN RATING:	225A	MOUNTING:	SURFACE							
WIRE:	4H	TRIM STYLE:	-									
LOAD DESCRIPTION	CKT. BKR.	A	B	C	CKT. NO.	A	B	C	CKT. BKR.	LOAD DESCRIPTION		
RECEPT - G-62	IP-20A				1 2				IP-20A	GFICI RECEPT - G-77		
FRIDGE AND RECEPT - G-72	IP-20A				3 4				IP-20A	RECEPT - G-12		
RECEPT - G-73	IP-20A				5 6				IP-20A	G-77 EX FAN		
LTS - G-64, 66, 67, 68	IP-20A				7 8				IP-20A	FRIDGE - G-58		
LTS - G-64, 70, 71, 72 REMOVE 71, 72	IP-20A				9 10				IP-20A	RECEPT - OUTSIDE MAIN ENTRANCE 4 SIGN		
LTS - G-85, 86 DELETED	IP-20A				11 12				IP-20A	RECEPT - CORRIDOR BETW BLDG 31/28		
LTS - G-83, 84 DELETED	IP-20A				13 14				IP-20A	RECEPT - MAIN ENTRANCE BLDG 31		
RECEPT - G-58	IP-20A				15 16				IP-20A	RECEPT - G-81A		
RECEPT - G-01, 11	IP-20A				17 18				IP-20A	SPARE (CAPPED IN G-74A)		
RECEPT - G-03	IP-20A				19 20				IP-20A	RECEPT - COPY MACHING G		
KIOSK PILOT WAITING	IP-20A				21 22				IP-20A	RECEPT - G-03		
KIOSK MAIN ENTRANCE LOBBY	IP-20A				23 24				IP-20A	RECEPT - G-58		
RECEPT - G-12	IP-20A				25 26				IP-20A	RECEPT - G-61, 62		
RECEPTS - G-82	IP-20A				27 28				2P-60A	EXISTING LOAD		
RECEPTS - G-82	IP-20A				29 30					SPARE		
RECEPTS - G-82	IP-20A				31 32				IP-20A	RECEPT - G-81A		
RECEPTS - G-81B	IP-20A				33 34				IP-20A	FCU OUTSIDE G-80, 02A		
SPARE	2P-60A				35 36				2P-60A	SPARE		
					37 38							
SPARE	2P-30A				39 40				2P-30A	SPARE		
					41 42							
TOTAL		0.0	0.0	0.0		0.0	0.0	0.0	TOTAL			
NOTES: 1. HEAVIER LINE TYPE CKT BKR INDICATES TO PROVIDE NEW.												

ELECTRICAL PANEL SCHEDULE: EXISTING PANEL L531-G												
VOLTAGE:	208Y/120	NEUTRAL:	COPPER	LOCATION:	ELEC. RM. G-51	FED FROM:	L531G					
AMPERAGE:	100A	NEUTRAL RATING:	100%	MAKE:	SIEMENS, TYPE PI							
INTERRUPTANCE:	10 KAIC	MAIN TYPE:	M.L.C.B.	MODEL NUMBER:	PIC42ML250ATS							
PHASE:	3PH	MAIN RATING:	100A	MOUNTING:	SURFACE							
WIRE:	4H	TRIM STYLE:	---									
LOAD DESCRIPTION	CKT. BKR.	A	B	C	CKT. NO.	A	B	C	CKT. BKR.	LOAD DESCRIPTION		
EXISTING FIRE DAMPER	IP-20A				1 2				IP-20A	RE LGTS # EXITS COR G-5, 6		
EXISTING FIRE DAMPER	IP-20A				3 4				IP-20A	MED GAS PANEL NHCU		
EXISTING FIRE DAMPER	IP-20A				5 6				IP-20A	NO LABEL		
EXISTING FIRE DAMPER	IP-20A				7 8				IP-20A	RE LGTS # EXITS COR G-7, SALLY PORT		
DOOR CRASH BAR	IP-20A				9 10				IP-20A	MED GAS PANEL - MENTAL HEALTH		
SALLY PORT DOORS (8C, 8D)	IP-20A				11 12				IP-20A	RE LGTS PHYS THERAPY		
MED GAS ALARM (1A-4)	IP-20A				13 14					SPACE		
SPACE	-				15 16					SPACE		
SPACE	-				17 18					SPACE		
SPACE	-				19 20					SPACE		
SPACE	-				21 22					SPACE		
SPACE	-				23 24					SPACE		
MAIN CIRCUIT BREAKER	3P-100A				25 26					SPACE		
-	-				27 28					SPACE		
-	-				29 30					SPACE		
TOTAL		0.0	0.0	0.0		0.0	0.0	0.0	TOTAL			
NOTES: 1. HEAVIER LINE TYPE CKT BKR INDICATES TO PROVIDE NEW.												

ELECTRICAL PANEL SCHEDULE: EXISTING PANEL CR31-G												
VOLTAGE:	208Y/120	NEUTRAL:	COPPER	LOCATION:	ELEC. RM. G-51	FED FROM:	CR31-B					
AMPERAGE:	100A	NEUTRAL RATING:	100%	MAKE:	SIEMENS TYPE PI							
INTERRUPTANCE:	10 KAIC	MAIN TYPE:	M.L.C.	MODEL NUMBER:	---							
PHASE:	3PH	MAIN RATING:	100A	MOUNTING:	SURFACE							
WIRE:	4H	TRIM STYLE:	---									
LOAD DESCRIPTION	CKT. BKR.	A	B	C	CKT. NO.	A	B	C	CKT. BKR.	LOAD DESCRIPTION		
LGTS- G-44, 44A, 46, 47, 47A	IP-20A				1 2				IP-20A	NURSE CALL		
LGTS- G-48, 48A, 49, 49A, 50A, 53A	IP-20A				3 4				IP-20A	NURSE CALL		
LGTS- G-55 AND NURSE STATION	IP-20A				5 6				IP-20A	LGTS- G-50, 52, 53, 54, 56		
LGTS- G-28, 29, 30	IP-20A				7 8				3P-40A	PANEL CR31-GA		
LGTS- G-31, 32	IP-20A				9 10				-	-		
ETI RECEPT - G-47	IP-20A				11 12				-	-		
LGTS- G-36, 38, 40	IP-20A				13 14				IP-20A	RECEPTS - G-85, 86 DELETED		
ETI RECEPT - G-50	IP-20A				15 16				IP-20A	RECEPT - G-69, 71, 72, 82 REMOVE 71, 72, 82		
ETI RECEPT - G-55 NURSE STATION	IP-20A				17 18				IP-20A	ETI RECEPT - G-44		
LGTS-5MKS(F,G,H) NURSE, COR G-5,6,7,8D	IP-20A				19 20				IP-20A	ETI RECEPT - G-48		
NO LABEL	IP-20A				21 22				IP-20A	ETI RECEPT - G-49		
LGTS- G-67, 69, 70, 71, 72 REMOVE 71, 72	IP-20A				23 24				IP-20A	RECEPT - G44A, 46A, 50A, STAIR 3, FLUSHES		
LGTS- G-83, 86 DELETED	IP-20A				25 26				IP-20A	SPARE		
LGTS- G-85, 86 DELETED	IP-20A				27 28				IP-20A	RECEPT - G-34, 36, 38		
SIEMENS PANEL G-51	IP-20A				29 30				IP-20A	RECEPT - G-33, 34		
LGTS- G-07, 08, 09	IP-20A				31 32				IP-20A	RECEPT - G-31, 32, 33		
LGTS- G-15, 16	IP-20A				33 34				IP-20A	RECEPT - G-28, 29, 30, 31		
LGTS- G-17, 26, 26A	IP-20A				35 36				IP-20A	RECEPT - G-30, 35, 36, 37		
NURSE STATION G-26	IP-20A				37 38				IP-20A	RECEPT - G-03, 07, 08, 09		
NURSE STATION G-26	IP-20A				39 40				IP-20A	RECEPT - G-03, 07, 08, 09		
RECEPT - G-32, 52	IP-20A				41 42				IP-20A	RECEPT - G-51		
TOTAL		0.0	0.0	0.0		0.0	0.0	0.0	TOTAL			
NOTES: 1. HEAVIER LINE TYPE CKT BKR INDICATES TO PROVIDE NEW.												

ELECTRICAL PANEL SCHEDULE: EXISTING PANEL EQ31-I												
VOLTAGE:	208Y/120	NEUTRAL:	COPPER	LOCATION:	ELEC. RM. 116B (OLD 162) FED FROM:	EQ31-B						
AMPERAGE:	125 MAX	NEUTRAL RATING:	100%	MAKE:	SIEMENS TYPE PI							
INTERRUPTANCE:	10 KAIC	MAIN TYPE:	M.L.O.	MODEL NUMBER:	-							
PHASE:	3PH	MAIN RATING:	100A	MOUNTING:	SURFACE							
WIRE:	4H	TRIM STYLE:	---									
LOAD DESCRIPTION	CKT. BKR.	A	B	C	CKT. NO.	A	B	C	CKT. BKR.	LOAD DESCRIPTION		
RIE-2CBEI ATS EMERG SIDE	3P-40A				1 2				IP-20A	EMERGENCY RECEPTS		
-	-				3 4				IP-20A	EMERGENCY RECEPTS		
-	-				5 6				IP-20A	EMERGENCY RECEPTS		
EMERGENCY RECEPTS	IP-20A				7 8				IP-20A	EMERGENCY RECEPTS		
EMERGENCY RECEPTS	IP-20A				9 10				IP-20A	EMERGENCY RECEPTS		
EMERGENCY RECEPTS	IP-20A				11 12				IP-20A	EMERGENCY RECEPTS		
EMERGENCY RECEPTS	IP-20A				13 14				IP-20A	EMERGENCY RECEPTS		
EMERGENCY RECEPTS	IP-20A				15 16				IP-20A	EMERGENCY RECEPTS		
EMERGENCY RECEPTS	IP-20A				17 18				IP-20A	EMERGENCY RECEPTS		
EMERGENCY RECEPTS	IP-20A				19 20				IP-20A	EMERGENCY RECEPTS		
EMERGENCY RECEPTS	IP-20A				21 22				IP-20A	EMERGENCY RECEPTS		
EMERGENCY RECEPTS	IP-20A				23 24				IP-20A	EMERGENCY RECEPTS		
EMERGENCY RECEPTS	IP-20A				25 26				IP-20A	EMERGENCY RECEPTS		
EMERGENCY RECEPTS	IP-20A				27 28				IP-20A	EMERGENCY RECEPTS		
EMERGENCY RECEPTS	IP-20A				29 30				IP-20A	EMERGENCY RECEPTS		
TOTAL		0.0	0.0	0.0		0.0	0.0	0.0	TOTAL			
NOTES: 1. HEAVIER LINE TYPE CKT BKR INDICATES TO PROVIDE NEW.												

ELECTRICAL PANEL SCHEDULE: EXISTING PANEL L3N-GCI												
VOLTAGE:	480Y/277	NEUTRAL:	COPPER	LOCATION:	ELEC. RM. G-74A	FED FROM:	S3N-MDP31B					
AMPERAGE:	225A	NEUTRAL RATING:	100%	MAKE:	-							
INTERRUPTANCE:	10 KAIC	MAIN TYPE:	M.C.B.	MODEL NUMBER:	-							
PHASE:	3PH	MAIN RATING:	100A	MOUNTING:	SURFACE							
WIRE:	4H			TRIM STYLE:	-							
LOAD DESCRIPTION	CKT. BKR.	A	B	C	CKT. NO.	A	B	C	CKT. BKR.	LOAD DESCRIPTION		
SPARE	3P-30A				1 2				IP-20A	LIGHTS - POLICE OFFICES		
-	-				3 4				IP-20A	LIGHTS - FRONT LOBBY ENTRANCE		
-	-				5 6				IP-20A	LIGHTS - OFFICES		
LIGHTS - G-22	IP-20A				7 8				IP-20A	LIGHTS - ELEC. RM. G-74		
SPARE (CAP AT MENTAL HEALTH)	IP-20A				9 10				IP-20A	LIGHTS - G-P3, G-20		
SPARE (CAP AT MENTAL HEALTH)	IP-20A				11 12				IP-20A	LIGHTS - OFFICES		
LIGHTS - CORRIDOR FROM G-74 TO STAIR	IP-20A				13 14				IP-20A	LIGHTING - NEW CORRIDOR		
CAPPED IN .JBXX ABOVE G-05	IP-20A				15 16				IP-20A	LIGHTING - PATIENT ROOM1 G63-G66		
LIGHTS - FITNESS G-03	IP-20A				17 18				IP-20A	LIGHTING - NEW G7, 78, 81, 82		
SPARE	IP-20A				19 20				IP-20A	SPARE		
SPARE	IP-20A				21 22				IP-20A	SPARE		
SPARE	IP-20A				23 24				IP-20A	SPARE		
SPARE	IP-20A				25 26				IP-20A	SPARE		
SPARE	IP-20A				27 28				IP-20A	SPARE		
SPARE	IP-20A				29 30				IP-20A	SPARE		
NOTES:	TOTAL		0.0	0.0	0.0	0.0	0.0	0.0	TOTAL			
1. HEAVY LINE TYPE CKT BKR INDICATES TO PROVIDE NEW.												

A
B
C
D
E
F

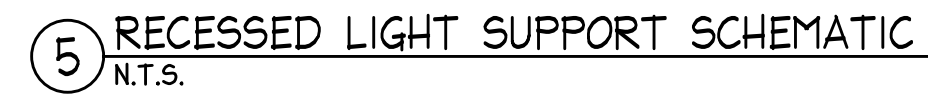
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one eighth inch = one foot

ELECTRICAL PANEL SCHEDULE: EXISTING PANEL IC4E												
VOLTAGE: 208Y/120			NEUTRAL: COPPER			LOCATION: ELEC. RM. 110 (OLD 142A) FED FROM: TEL (B-03A)						
AMPERAGE: 100A			NEUTRAL RATING: 100%			MAKE: -						
INTERRUPTANCE: 10 KAIC			MAIN TYPE: M.C.B.			MODEL NUMBER: -						
PHASE: 3PH			MAIN RATING: 100A			MOUNTING: SURFACE						
WIRE: 4#4			TRIM STYLE: -									

ELECTRICAL PANEL SCHEDULE: EXISTING PANEL RIN-ICB2														
VOLTAGE: 208Y/120			NEUTRAL: COPPER			LOCATION: ELEC. RM. 157 (OLD 182A) FED FROM: PIN-B01								
AMPERAGE: 225A			NEUTRAL RATING: 100%			MAKE: -								
INTERRUPTANCE: 10 KAIC			MAIN TYPE: M.L.O.			MODEL NUMBER: -								
PHASE: 3PH			MAIN RATING: 225A			MOUNTING: SURFACE								
WIRE: 4W						TRIM STYLE: -								
LOAD DESCRIPTION	CKT. BKR.	A	B	C	CKT. NO.	A	B	C	CKT. BKR.	LOAD DESCRIPTION	CKT. NO.	A	B	C
PATIENT ROOM NORMAL RECEP	IP-20A				1 2				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				3 4				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				5 6				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				7 8				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				9 10				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				11 12				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				13 14				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				15 16				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				17 18				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				19 20				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				21 22				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				23 24				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				25 26				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				27 28				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				29 30				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				31 32				IP-20A	AUTO DOORS MICH				
PATIENT ROOM NORMAL RECEP	IP-20A				33 34				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				35 36				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				37 38				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				39 40				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
PATIENT ROOM NORMAL RECEP	IP-20A				41 42				IP-20A	PATIENT ROOM NORMAL RECEP	IP-20A			
NOTES:		TOTAL			0.0	0.0	0.0	0.0	0.0	0.0	TOTAL			
1. HEAVIER LINE TYPE CKT BKR INDICATES TO PROVIDE NEN.														
2. PANEL FEEDS NUMBER OF CIRCUITS TO DEMOLISHED DESK 80 SPACE. REUSE BREAKERS.														

ELECTRICAL PANEL SCHEDULE: EXISTING PANEL RIE-2CBE2														
VOLTAGE: 208Y/120			NEUTRAL: COPPER			LOCATION: ELEC. RM. 144 (OLD 153) FED FROM: CR31-B								
AMPERAGE: 225A			NEUTRAL RATING: 100%			MAKE: GE A SERIES								
INTERRUPTANCE: 10 KAIC			MAIN TYPE: M.L.O.			MODEL NUMBER: -								
PHASE: 3PH			MAIN RATING: 225A			MOUNTING: SURFACE								
WIRE: 4#4			TRIM STYLE: -											
LOAD DESCRIPTION	CKT. BKR.		A	B	C	CKT. NO.	A	B	C	CKT. BKR.	LOAD DESCRIPTION			
LTS RM 160	IP-20A					1 2				IP-20A	SPARE			
NURSE CALL CABINET	IP-20A					3 4				IP-20A	RECEPT RM 160N			
WED CABINET RM 160	IP-20A					5 6				IP-20A	SPARE			
SPARE	IP-20A					7 8				IP-20A	RECEPT 160,163,164			
SPARE	IP-20A					9 10				IP-20A	SPARE			
RECEPT IN CEILING BAR CODE	IP-20A					11 12				IP-20A	SPARE			
SPARE	2P-20A					13 14				IP-20A	RECEPT 160F,G,H,J			
-	-					15 16				2P-50A	SPARE			
EF-3	IP-20A					17 18				-	-			
HEPA UNIT MICU RM 4	IP-20A					19 20				IP-20A	RECEPT 160C,D,E			
EF-5	IP-20A					21 22				IP-20A	RECEPT 158,159			
NURSE CALL EQUIP RM 117	IP-20A					23 24				IP-20A	RECEPT 160K			
NURSE CALL EQUIP RM 117	IP-20A					25 26				IP-20A	RECEPT BELOW PANEL			
SPACE	-					27 28				-	SPACE			
SPACE	-					29 30				-	SPACE			
SPACE	-					31 32				-	SPACE			
SPACE	-					33 34				-	SPACE			
SPACE	-					35 36				-	SPACE			
SPACE	-					37 38				-	SPACE			
SPACE	-					39 40				-	SPACE			
SPACE	-					41 42				-	SPACE			
NOTES:														
1. HEAVIER LINE TYPE CKT BKR INDICATES TO PROVIDE NEN.														
2. FOR HEAVY LINE TYPE CKTS LABELLED SPARE, VERIFY EXISTING LOAD HAS BEEN REMOVED FROM PANEL. VERIFY IF LOAD IS IN MICU.														

ELECTRICAL PANEL SCHEDULE: EXISTING PANEL RIN-IC2A												
VOLTAGE: 208Y/120			NEUTRAL: COPPER			LOCATION: ELEC. RM. 110 (OLD 142A) FED FROM: SSN-MDP91B						
AMPERAGE: 225A			NEUTRAL RATING: 100%			MAKE: -						
INTERRUPTANCE: 10 KAIC			MAIN TYPE: M.L.O.			MODEL NUMBER: -						
PHASE: 3PH			MAIN RATING: 225A			MOUNTING: SURFACE						
WIRE: 4W			TRIM STYLE: -									
LOAD DESCRIPTION	CKT. BKR.				CKT. No.				CKT. BKR.	LOAD DESCRIPTION		
		A	B	C		A	B	C				
RECEPTACLES	IP-20A				1 2				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				3 4				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				5 6				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				7 8				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				9 10				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				11 12				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				13 14				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				15 16				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				17 18				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				19 20				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				21 22				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				23 24				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				25 26				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				27 28				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				29 30				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				31 32				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				33 34				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				35 36				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				37 38				IP-20A	RECEPTACLES		
RECEPTACLES	IP-20A				39 40				2P-30A	TEMP HOT WATER HEATER (P-2)		
RECEPTACLES	IP-20A				41 42				-			
TOTAL		0.0	0.0	0.0		0.0	0.0	0.0	TOTAL			
NOTES												
1. HEAVY LINE TYPE CKT BKR INDICATES TO PROVIDE NEM.												



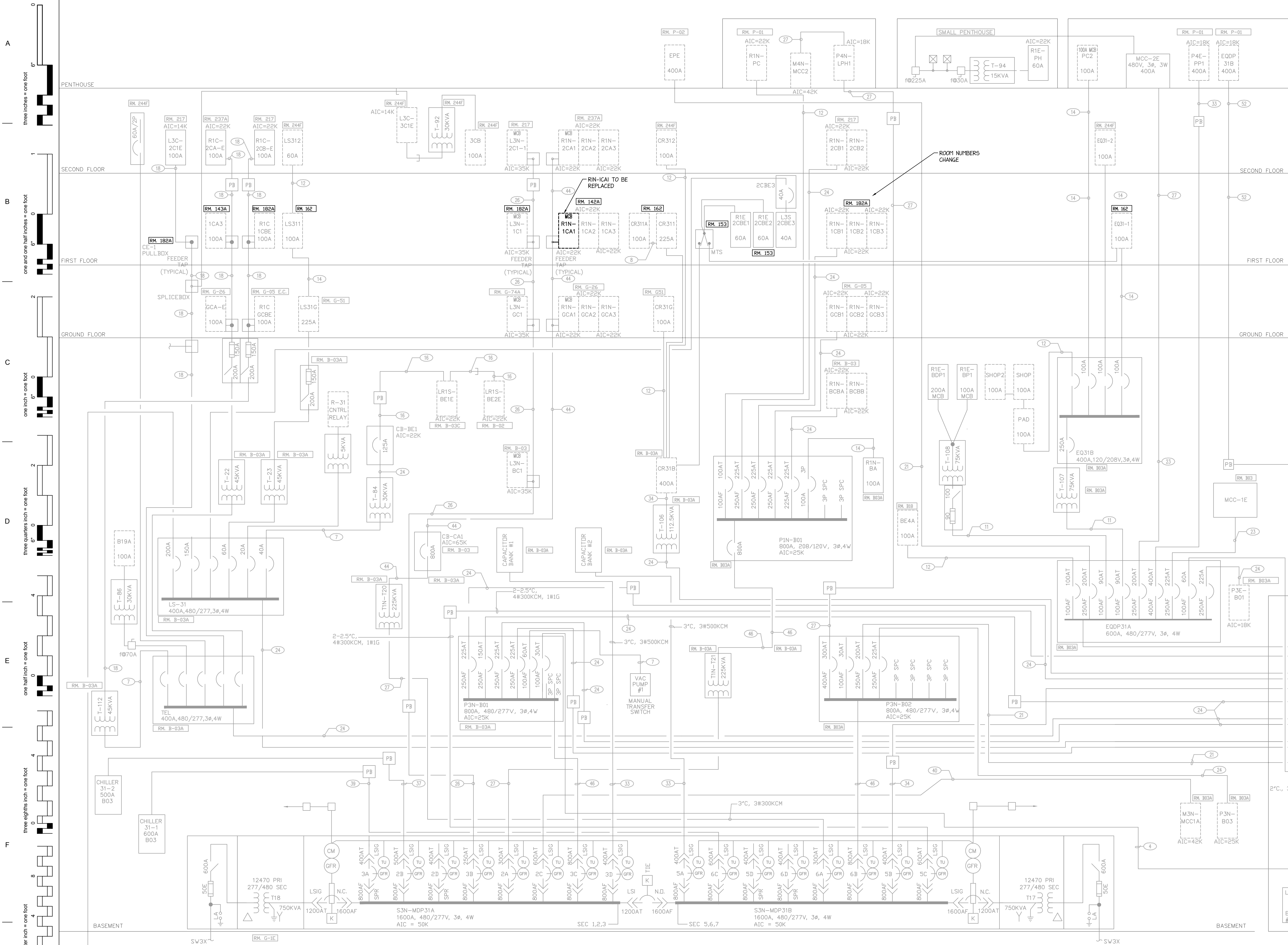
Veterans Affairs

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Drawing No.
31-E-604







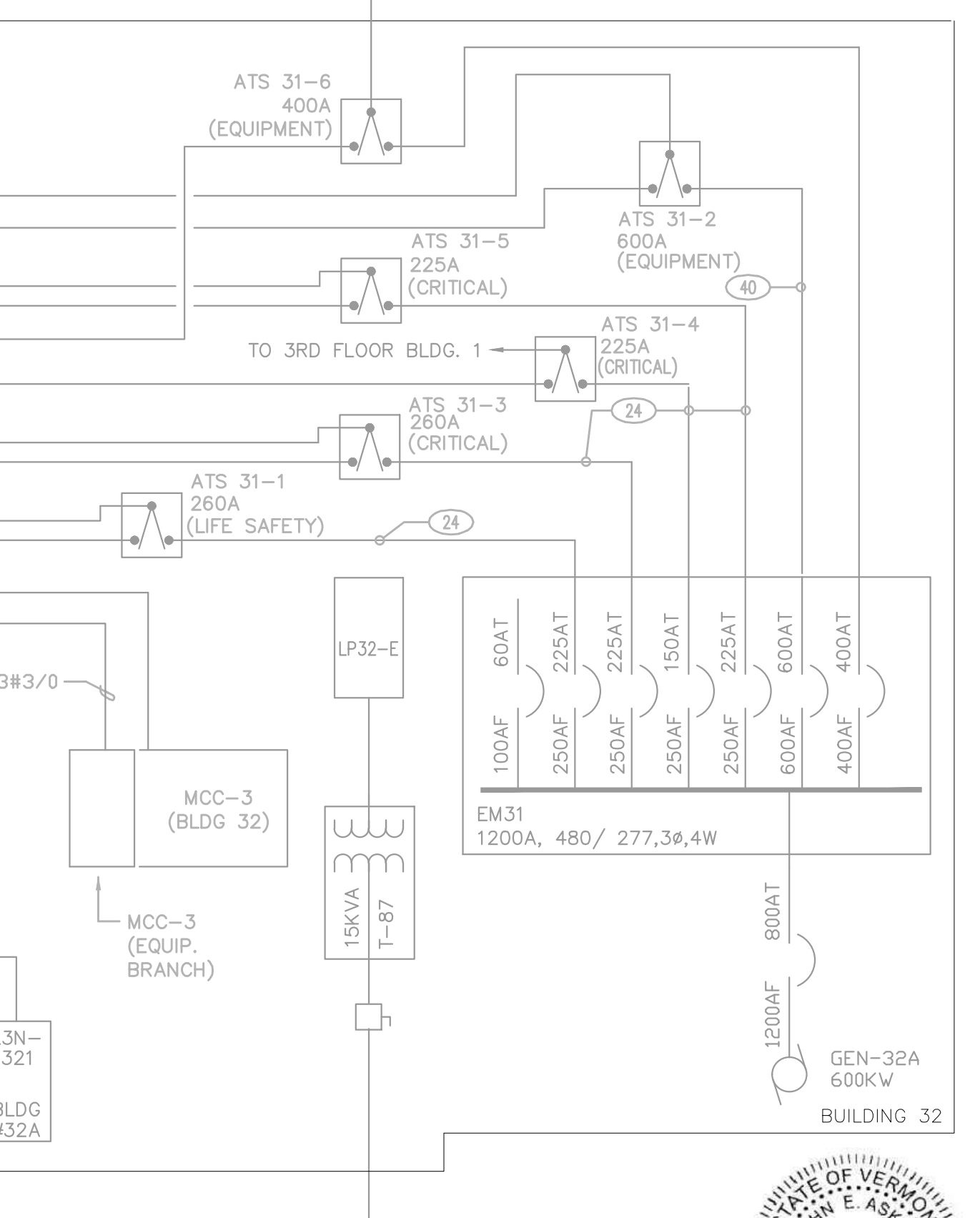
FEEDER SCHEDULE		
FDR #	NEC AMP	CONDUIT/CONDUCTORS *
1	20	75' 3#12, #12G
2	20	75' 4#12, #12G
3	30	75' 3#10, #10G
4	30	75' 4#10, #10G
5	50	1" 3#8, #8G
6	50	1" 4#8, #8G
7	65	1" 3#8, #8G
8	65	1.25" 4#8, #8G
9	85	1.25" 3#4, #8G
10	85	1.25" 4#4, #8G
11	100	1.25" 3#3, #8G
12	100	1.25" 4#3, #8G
13	115	1.5" 4#2, #6G
14	130	1.5" 3#1, #6G
15	130	2" 4#1, #6G
16	150	2" 3#1/0, #6G
17	150	2" 4#1/0, #6G
18	175	2" 4#2/0, #6G
19	200	2" 3#3/0, #6G
20	200	2.5" 4#3/0, #6G
21	230	2.5" 3#4/0, #4G
22	255	2.5" 3#250KCM, #4G
23	255	3" 4#250KCM, #4G
24	285	2.5" 3#300KCM, #3G
25	285	3" 4#300KCM, #3G
26	310	3" 3#350KCM, #3G
27	310	3" 4#350KCM, #3G
28	335	3" 3#400KCM, #3G
29	335	3.5" 4#400KCM, #3G
30	380	3" 3#500KCM, #1G
31	380	3.5" 4#500KCM, #1G
32	460	2-2.5" 3#4/0, #2G
33	460	2-2.5" 4#4/0, #2G
34	510	2-2.5" 3#250KCM, #2G
35	610	2-3" 3#350KCM, #1G
36	610	2-3" 4#350KCM, #1G
37	670	2-3" 3#400KCM, #3G
38	670	2-3.5" 4#400KCM, #3G
39	760	2-3" 3#500KCM, #1/0G
40	760	2-3.5" 4#500KCM, #1/0G
41	420	4" 4#600KCM, #3G
42	840	2-4" 4#600KCM, #1/0G
43	1140	3-3.5" 3#500KCM, #2/0G
44	1140	3-3.5" 4#500KCM, #2/0G
45	1260	4-4" 4#600KCM, #3/0G
46	1520	4-4" 4#600KCM, #3/0G
47	1680	4-5" 4#600KCM, #4/0G
48	380	4" 4#500KCM, #3G
49	230	2.5" 4#4/0, #5/0G

- GENERAL NOTES:
- LIGHT LINETYPES INDICATE THE DEVICE OR CIRCUIT IS EXISTING. BOLD LINES ON E-801 INDICATES DEVICE OR CIRCUIT TO BE DEMOLISHED. BOLD LINES ON E-802 INDICATES NEW EQUIPMENT AND FEEDERS.
 - PROVIDE GROUND BETWEEN NORMAL AND CRITICAL POWER PANELBOARDS THAT SERVE THE SAME PATIENT BED PER NEC 517.

PARTIAL LEGEND

THIN LINES DENOTE EXISTING WORK

DASHED BOLD LINES DENOTE DEMO WORK



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MECHANICAL, PLUMBING & ELECTRICAL ENGINEERING

L.N. CONSULTING

208 Flynn Avenue Suite 2J

Burlington, VT 05401

802-655-1753

CONSTRUCTION COST ESTIMATING & SCHEDULING

VIS Construction Consultants

595 Dorset Street, Suite #5

South Burlington, VT 05403

802-658-6100

HAZARDOUS MATERIALS

ATC Associates

171 Commerce Street

Williston, VT 05495

802-682-1980

COMMISSIONING SERVICES

Cx Associates

110 Main Street

Burlington, VT 05401

802-861-2715

LIFE SAFETY CONSULTANT

Jensen-Hughes

1661 Worcester Road

Suite 501

Framingham, MA

ARCHITECT

e4h

185 Talcott Road

Williston, VT 05495

T: 802.878.8841

www.e4harchitecture.com

PROJECT TITLE

INPATIENT WARD RENOVATION

BUILDING #

31

LOCATION

VAMC - WHITE RIVER JUNCTION

DATE

9/30/2022

VA PROJECT NO.

405-13-104

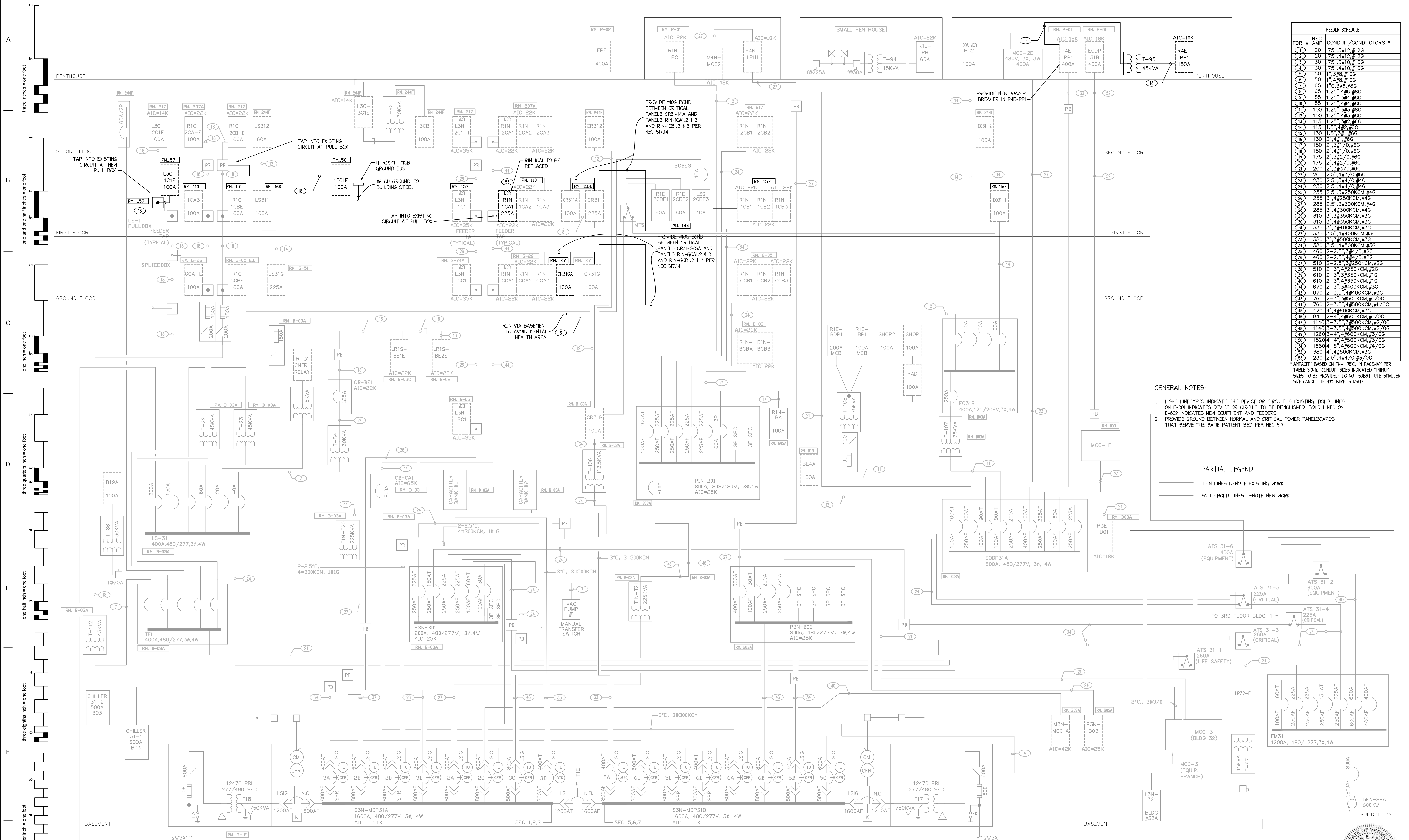
DRAWING NO.

31-E-801

OFFICE OF FACILITIES

DEPARTMENT OF VETERANS AFFAIRS

VA FORM 08-6231 1 2 3 4 5 6 7 8 9



FEEDER SCHEDULE		
FDR #	NEC AMP	CONDUIT/CONDUCTORS *
(1)	20	75, 3/4", #12, #2G
(2)	20	75, 4/4", #12, #2G
(3)	20	75, 4/4", #12, #10G
(4)	20	75, 4/4", #10, #8G
(5)	50	1" 3/8", #6G, #8G
(6)	50	1" 1/2", #6G, #10G
(7)	50	1" 3/8", #6G, #8G
(8)	85	1 1/2", #4", #6G, #8G
(9)	85	1 1/2", #4", #6G, #8G
(10)	100	1 1/2", #4", #6G, #8G
(11)	100	1 1/2", #4", #6G, #8G
(12)	100	1 1/2", #4", #6G, #8G
(13)	115	1 1/2", #3/2", #6G, #8G
(14)	115	1 1/2", #4", #6G, #8G
(15)	130	1 1/2", #3/2", #6G, #8G
(16)	130	2" 4/1", #6G, #8G
(17)	150	2" 1/2", #6G, #8G
(18)	175	2" 4/1", #6G, #8G
(19)	175	2" 1/2", #6G, #8G
(20)	175	2" 4/2", #6G, #8G
(21)	200	2" 3/2", #6G, #8G
(22)	200	2" 4/2", #6G, #8G
(23)	230	2 1/2", #3/4", #6G, #4G
(24)	230	2 1/2", #4/4", #6G, #4G
(25)	230	2 1/2", #3/2", #6G, #4G
(26)	235	3" 4/2", #500K, #3G
(27)	285	3" 3/4", #300K, #4G
(28)	285	3" 1/4", #500K, #4G
(29)	310	3" 1/2", #300K, #4G
(30)	310	3" 4/4", #500K, #3G
(31)	335	3" 3/4", #400K, #3G
(32)	335	3 3/4", #440K, #3G
(33)	335	3" 4/4", #500K, #3G
(34)	380	3 1/2", #450K, #3G
(35)	460	2-2 1/2", #3/4", #2G
(36)	460	2-2 1/2", #3/4", #2G
(37)	510	2-3", #250K, #2G
(38)	510	2-3", #250K, #2G
(39)	610	2-3", #250K, #1G
(40)	610	2-3", #450K, #1G
(41)	670	2-3", #440K, #3G
(42)	670	2-3", #440K, #3G
(43)	720	2-3 1/2", #440K, #3G
(44)	780	2-3 1/2", #550K, #1G
(45)	780	2-3 1/2", #450K, #1G / 0G
(46)	840	2" 4/4", #600K, #3G
(47)	840	2" 4/4", #600K, #1G / 0G
(48)	1140	3-3", #350K, #4G / 0G
(49)	1140	3-3", #450K, #2G / 0G
(50)	1260	4" 4/4", #500K, #3G / 0G
(51)	1520	4" 4/4", #500K, #3G / 0G
(52)	1520	4" 4/4", #500K, #4G / 0G
(53)	380	4" 4/4", #600K, #3G
(54)	230	2 1/2", #4/4", #3G / 0G

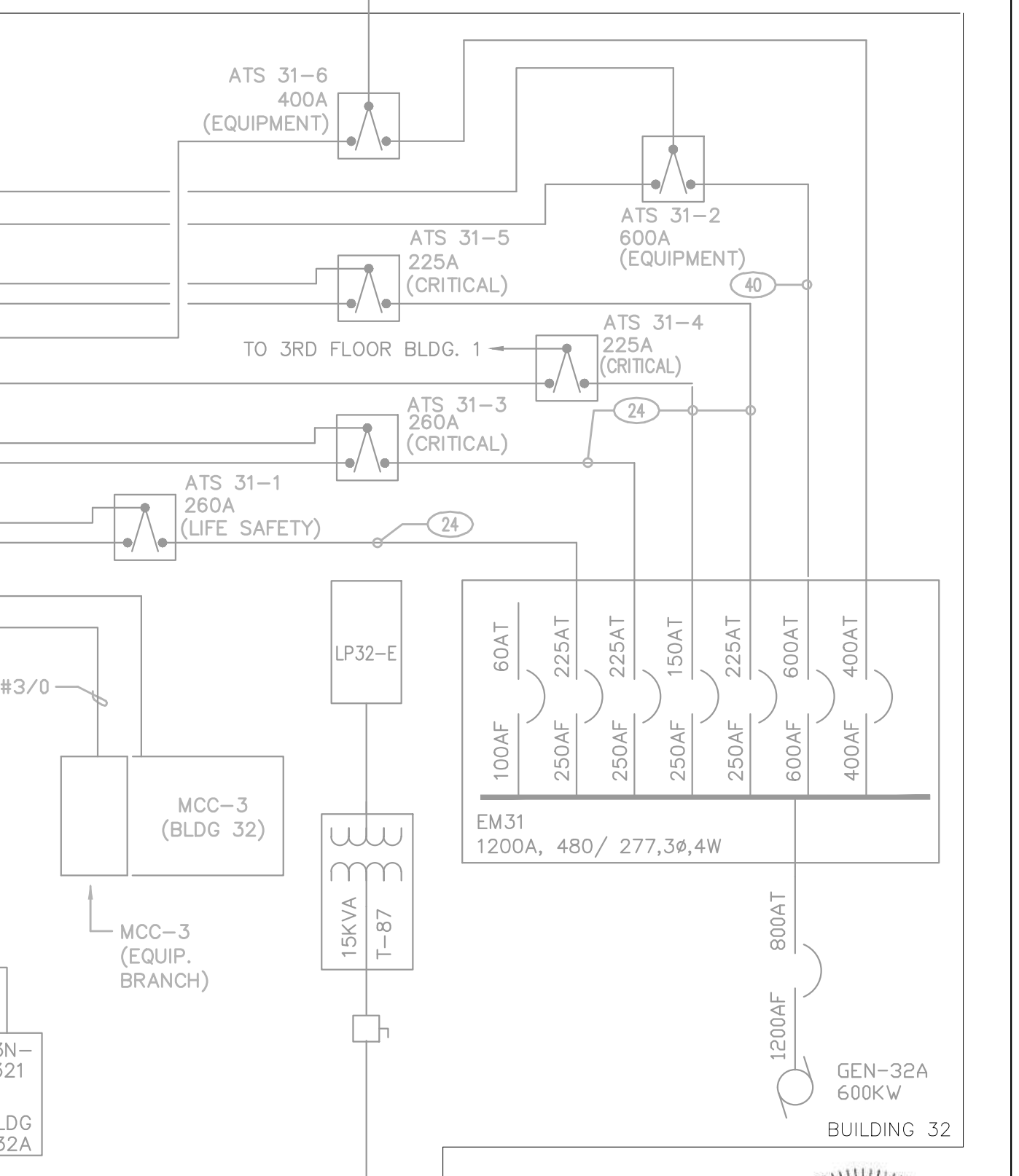
GENERAL NOTES:

1. LIGHT LINETYPES INDICATE THE DEVICE OR CIRCUIT IS EXISTING, BOLD LINES ON E-801 INDICATES DEVICE OR CIRCUIT TO BE DEMOLISHED, BOLD LINES ON E-802 INDICATES NEW EQUIPMENT AND FEEDERS.
2. PROVIDE GROUND BETWEEN NORMAL AND CRITICAL POWER PANELBOARDS THAT SERVE THE SAME PATIENT BED PER NEC 517.

PARTIAL LEGEND

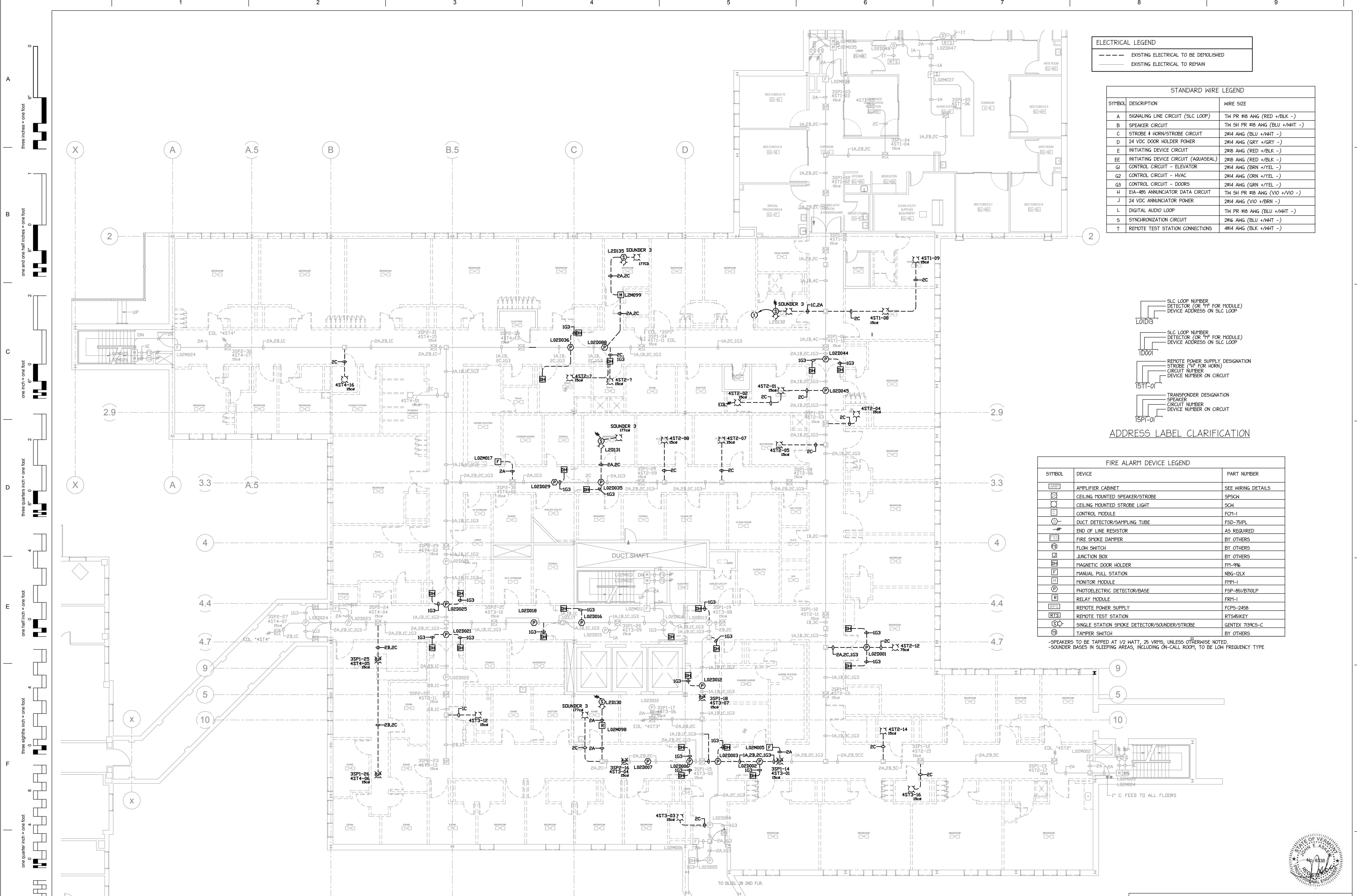
THIN LINES DENOTE EXISTING WORK

SOLID BOLD LINES DENOTE NEW WORK



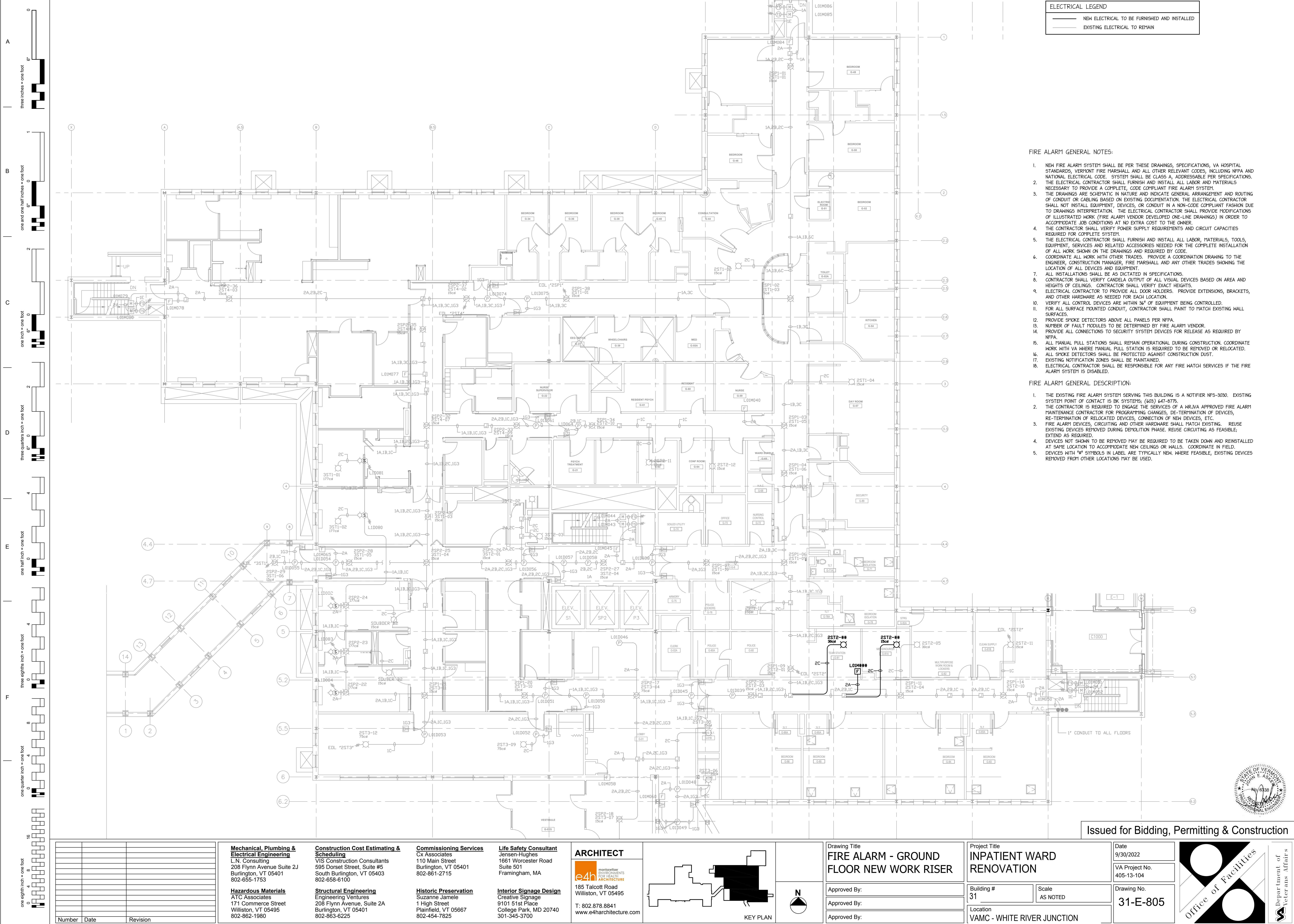
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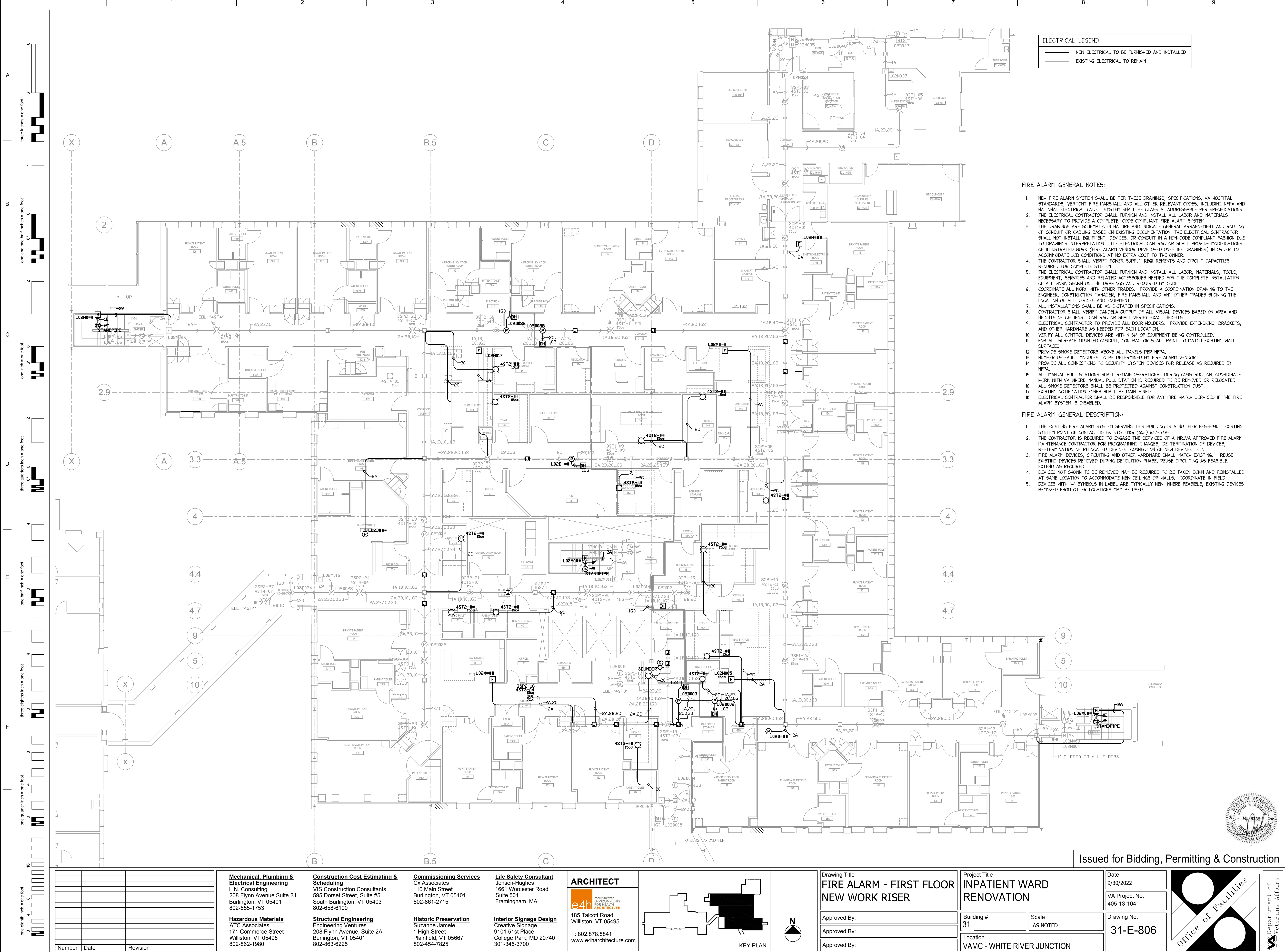
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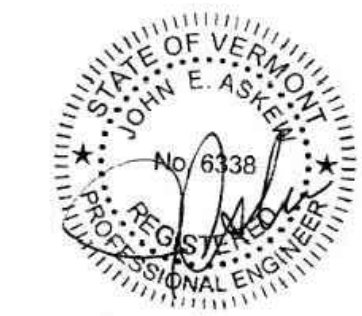


ELECTRICAL LEGEND





————	NEW ELECTRICAL TO BE FURNISHED AND INSTALLED
————	EXISTING ELECTRICAL TO REMAIN

- FIRE ALARM GENERAL NOTES:**
1. NEW FIRE ALARM SYSTEM SHALL BE PER THESE DRAWINGS, SPECIFICATIONS, VA HOSPITAL STANDARDS, VERMONT FIRE MARSHALL AND ALL OTHER RELEVANT CODES, INCLUDING NFPA AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) SYSTEM SPECIFICATIONS.
 2. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY TO PROVIDE A COMPLETE, CODE COMPLIANT FIRE ALARM SYSTEM.
 3. THE DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE GENERAL ARRANGEMENT AND ROUTING OF CONDUIT OR CABLEING BASED ON AVAILABLE INFORMATION. THE ELECTRICAL CONTRACTOR SHALL NOT INSTALL EQUIPMENT, DEVICES, OR CONDUIT IN A NON-CODE COMPLIANT FASHION DUE TO DRAWINGS INTERPRETATION. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MODIFICATIONS OF ILLUSTRATED WORK (FIRE ALARM VENDOR DEVELOPED ONE-LINE DRAWINGS) IN ORDER TO ACCOMMODATE JOB SPECIFIC CONDITIONS AND REQUIREMENTS.
 4. THE CONTRACTOR SHALL VERIFY POWER SUPPLY REQUIREMENTS AND CIRCUIT CAPACITIES REQUIRED FOR COMPLETE SYSTEM.
 5. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES AND ACCESSORIES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL WORK SHOWN ON THE DRAWINGS AND REQUIRED BY CODE.
 6. COORDINATE ALL WORK WITH ANY OTHER TRADES. PROVIDE A COORDINATION DRAWING TO THE ENGINEER, CONSTRUCTION MANAGER, FIRE MARSHALL AND ANY OTHER TRADES SHOWING THE LOCATION OF ALL WORK AND EQUIPMENT.
 7. ALL INSTALLATIONS SHALL BE AS DICTATED IN SPECIFICATIONS.
 8. CONTRACTOR SHALL VERIFY CANDELA OUTPUT OF ALL VISUAL DEVICES BASED ON AREA AND HEIGHTS OF CEILINGS. CONTRACTOR SHALL VERIFY EXACT HEIGHTS.
 9. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY, FUTURE EXTENSIONS, BRACKETS, AND OTHER HARDWARE AS REQUIRED FOR EACH LOCATION.
 10. VERIFY ALL CONTROL DEVICES ARE WITHIN 36" OF EQUIPMENT BEING CONTROLLED.
 11. FOR ALL SURFACE MOUNTED CONDUIT, CONTRACTOR SHALL PAINT TO MATCH EXISTING WALL SURFACES.
 12. PROVIDE SMOKE DETECTORS ABOVE ALL PANELS PER NFPA.
 13. NUMBER OF FAULT MODULES TO BE DETERMINED BY FIRE ALARM VENDOR.
 14. PROVIDE ALL CONNECTIONS TO SECURITY SYSTEM DEVICES FOR RELEASE AS REQUIRED BY NFPA.
 15. MANUAL PULL STATIONS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE WORK WITH VA WHERE MANUAL PULL STATION IS REQUIRED TO BE REMOVED OR RELOCATED.
 16. ALL SMOKE DETECTORS SHALL BE PROTECTED AGAINST CONSTRUCTION DUST.
 17. EXISTING NOTIFICATION ZONES SHALL BE MAINTAINED.
 18. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FIRE WATCH SERVICES IF THE FIRE ALARM SYSTEM IS DISABLED.

- FIRE ALARM GENERAL DESCRIPTION:**
1. THE EXISTING FIRE ALARM SYSTEM SERVING THIS BUILDING IS A NOTIFIER NFS-3030. EXISTING SYSTEM POINT OF CONTACT IS BK SYSTEMS, (603) 447-8775.
2. THE CONTRACTOR IS REQUIRED TO ENGAGE THE SERVICES OF A KIRVIA APPROVED FIRE ALARM NOTIFICATION CONTRACTOR FOR THE FOLLOWING CHANGES: RELOCATION OF DEVICES, RE-TERMINATION OF RELOCATED DEVICES, ADDITION OF NEW DEVICES, ETC.
3. FIRE ALARM DEVICES, CIRCUITING AND OTHER HARDWARE SHALL MATCH EXISTING. REUSE EXISTING DEVICES REMOVED DURING DEMOLITION PHASE. REUSE CIRCUITING AS FEASIBLE; EXTEND AS REQUIRED.
4. DEVICES NOT SHOWN TO BE REMOVED MAY BE REQUIRED TO BE TAKEN DOWN AND REINSTALLED AT SAME LOCATION TO ACCOMMODATE NEW CEILINGS OR WALLS. COORDINATE IN FIELD.
5. ALL DEVICES NOT SHOWN TO BE REMOVED OR OTHERWISE IDENTIFIED AS TO BE REMOVED ARE TO BE REMOVED FROM OTHER LOCATIONS MAY BE USED.



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			Mechanical, Plumbing & Electrical Engineering L.N. Consulting 208 Flynn Avenue Suite 2J Burlington, VT 05401 802-655-1753	Construction Cost Estimating & Scheduling VIS Construction Consultants 595 Dorset Street, Suite #5 South Burlington, VT 05403 802-658-6100	Commissioning Services Cx Associates 110 Main Street Burlington, VT 05401 802-861-2715	Life Safety Consultant Jensen-Hughes 1661 Worcester Road Suite 501 Frammingham, MA	ARCHITECT  montpelier VERMONT ARCHITECTURE 185 Talcott Road Williston, VT 05495 T: 802.878.8841 www.e4harchitecture.com	 KEY PLAN		Drawing Title FIRE ALARM - FIRST FLOOR INNOVATION WARD NEW WORK RISER	Project Title INPATIENT WARD RENOVATION	Date 9/30/2022	VA Project No. 405-13-104	Drawing No. 31-E-806		Department of Veterans Affairs
			Hazardous Materials ATC Associates 171 Commerce Street Williston, VT 05495 802-862-1980	Structural Engineering Engineering Ventures 208 Flynn Avenue, Suite 2A Burlington, VT 05401 802-863-6225	Historic Preservation Suzanne Jamele 1 High Street Plainfield, VT 05667 802-454-7825	Interior Signage Design Creative Signage 9101 51st Place College Park, MD 20740 301-345-3700				Approved By: _____	Building # 31	Scale AS NOTED				
												Approved By: _____	Location VAMC - WHITE RIVER JUNCTION			
Number Date Revision												Approved By: _____				



<u>Mechanical, Plumbing & Electrical Engineering</u> L.N. Consulting 208 Flynn Avenue Suite 2 Burlington, VT 05401 802-655-1753	<u>Construction Cost Estimating & Scheduling</u> VIS Construction Consultants 595 Dorset Street, Suite #5 South Burlington, VT 05403 802-658-6100	<u>Commissioning Services</u> Cx Associates 110 Main Street Burlington, VT 05401 802-861-2715	<u>Life Safety Consultant</u> Jensen-Hughes 1661 Worcester Road Suite 501 Framingham, MA
<u>Hazardous Materials</u> ATC Associates 171 Commerce Street Williston, VT 05495 802-862-1980	<u>Structural Engineering</u> Engineering Ventures 208 Flynn Avenue, Suite 2A Burlington, VT 05401 802-863-6225	<u>Historic Preservation</u> Suzanne Jamelle 1 High Street Plainfield, VT 05667 802-454-7825	<u>Interior Signage Design</u> Creative Signage 9101 51st Place College Park, MD 20740 301-345-3700

	Drawing Title
	TELECOM RISER DIAGRAM
	Approved By:
	Approved By:
	Approved By:

Date	9/30/2022
VA Project No.	405-13-104
Drawing No.	31-E-807

