DEPARTMENT OF VETERANS AFFAIRS - JOHN D. DINGELL VA MEDICAL CENTER
DETROIT, MICHIGAN

VA

RENOVATE A2 SOUTH FOR CANCER CLINIC

553-21-100

100% BID DOCUMENTS

10-JAN-2025

N W E S

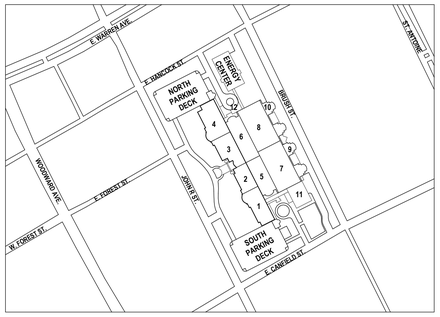
LOCATION MAP

NOT TO SCALE

N W E S

VICINITY MAP

NOT TO SCALE



N W E S

CAMPUS MAP

NOT TO SCALE

SHEET NO.	SHEET NAME
GENERAL	
G-001	COVER SHEET
G-002	LIFE SAFETY AND ICRA LEGENDS
G-102.1	LIFE SAFETY PLAN - SECOND LEVEL - ZONE 1
GENERAL - ICRA	
G-200	ICRA PLAN - LOWER LEVEL
G-201.1I	ICRA PLAN – FIRST LEVEL INTERSTITIAL – ZONE 1
G-202.1	ICRA PLAN - SECOND LEVEL - ZONE 1
G-202.1I	ICRA PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
G-203.1	ICRA PLANS - ZONE 1D
STRUCTURAL	
S-001	GENERAL NOTES AND LEGENDS
SD102.1	STRUCT DEMO PLAN - SECOND LEVEL - ZONE 1
SD102.1I	STRUCT DEMO PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
S-102.1	FRAMING PLAN - SECOND LEVEL - ZONE 1
S-102.1I	FRAMING PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
S-103.1	PARTIAL FRAMING PLANS - MECHANICAL ROOMS - ZONE 1
S-104.1	PARTIAL FRAMING PLANS - MECHANICAL ROOMS - ZONE 1
S-401	ENLARGED PLANS
S-501	SECTIONS AND DETAILS
ARCHITECTURAL	
A-001	ARCHITECTURAL LEGENDS, SYMBOLS, AND ABBREVIATIONS
A-002	PARTITION TYPES
AD102.1	DEMOLITION PLAN - SECOND LEVEL - ZONE 1
A-102.1	FLOOR PLAN - SECOND LEVEL - ZONE 1
A-102.1A	FLOOR PLAN - SECOND LEVEL - ZONE 1A
A-102.1B	FLOOR PLAN - SECOND LEVEL - ZONE 1B
A-102.1C	FLOOR PLAN - SECOND LEVEL - ZONE 1C
A-102.1D	FLOOR PLAN - SECOND, THIRD, ROOF LEVELS - ZONE 1D
A-112.1	REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1
A-112.1A	REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1A
A-112.1B	REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1B
A-112.1C	REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1C
A-112.1D	REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1D
A-122.1	EQUIPMENT PLAN - SECOND LEVEL - ZONE 1
A-122.1A	EQUIPMENT PLAN - SECOND LEVEL - ZONE 1A
A-122.1B	EQUIPMENT PLAN - SECOND LEVEL - ZONE 1B
A-122.1C	EQUIPMENT PLAN - SECOND LEVEL - ZONE 1C
A-122.1D	EQUIPMENT PLAN - SECOND LEVEL - ZONE 1D
A-131	ENLARGED PLANS
A-132	ENLARGED PLANS - PHARMACY
A-401	INTERIOR ELEVATIONS - ZONE 1A
A-402	INTERIOR ELEVATIONS - ZONE 1B
A-403	INTERIOR ELEVATIONS - ZONE 1C
A-404	INTERIOR ELEVATIONS - ZONE 1C
A-405	INTERIOR ELEVATIONS - ZONE 1C
A-501	DETAILS
A-502	SECTIONS AND DETAILS
A-503	DETAILS AND ELEVATIONS - EXAM CLINIC - CHECK-IN DESK
A-504	DETAILS - NURSE STATION, CHECK-IN AND CHECK-OUT
A-505	DETAILS - MILLWORK
A-506	DETAILS - INFUSION BAYS
A-601	DOOR SCHEDULE AND DETAILS
INTERIORS	
I-001	INTERIORS GENERAL NOTES AND LEGENDS
I-102.1	FINISH PLAN - SECOND LEVEL - ZONE 1
I-102.1A	FINISH PLAN - SECOND LEVEL - ZONE 1A
I-102.1B	FINISH PLAN - SECOND LEVEL - ZONE 1B
I-102.1C	FINISH PLAN - SECOND LEVEL - ZONE 1C
I-102.1D	FINISH PLAN - SECOND LEVEL - ZONE 1D
I-111	FURNITURE PLAN - SECOND LEVEL - ZONE 1 (FOR REFERENCE ONLY)
I-120	SIGNAGE PLAN - SECOND LEVEL - ZONE 1
I-130	FLOORING SEAM PLAN - SECOND LEVEL - ZONE 1

SHEET NO.	SHEET NAME
FIRE PROTECTION	
FD102	FP DEMO PLAN - SECOND LEVEL- ZONE 1
FD102.I	FP DEMO PLAN - SECOND LEVEL INTERSTITAL - ZONE 1
FP102	FP PLAN - SECOND LEVEL - ZONE 1
PP102.I	PIPING PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
PLUMBING	
PD101.I	DEMO PLAN - FIRST LEVEL INTERSTITIAL - ZONE 1
PD102	DEMO PLAN - SECOND LEVEL - ZONE 1
PD102.I	DEMO PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
PW101.I	DWV PLAN - FIRST LEVEL INTERSTITIAL - ZONE 1
PW102.I	DWV PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
P-102	PLUMBING PLAN - SECOND LEVEL - ZONE 1
P-501	PLUMBING DETAILS
P-601	PLUMBING SCHEDULES
MECHANICAL	
M-001	MECHANICAL LEGENDS
MD101.I	DEMO PLAN - FIRST LEVEL INTERSTITIAL - ZONE 1
MD102	DEMO PLAN - SECOND LEVEL - ZONE 1
MD102.1I	PIPING DEMO PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
MD102.2I	HVAC DEMO PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
MD401	ENLARGED MECHANICAL DEMO PLANS
MH102	HVAC PLAN - SECOND LEVEL - ZONE 1
MH102.I	HVAC PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
MP101.I	PIPING PLAN - FIRST LEVEL INTERSTITIAL - ZONE 1
MP102	PIPING PLAN - SECOND LEVEL - ZONE 1
MP102.I	PIPING PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
M-401	ENLARGED MECHANICAL PLANS
M-402	ENLARGED MECHANICAL PLANS
M-403	ENLARGED MECHANICAL PLANS
M-501	MECHANICAL DETAILS
M-502	MECHANICAL DETAILS
M-503	MECHANICAL AHU DETAILS
M-601	MECHANICAL SCHEDULES
M-602	MECHANICAL SCHEDULES
M-701	MECHANICAL DIAGRAMS & SCHEMATICS
M-801	MECHANICAL CONTROLS
M-802	MECHANICAL CONTROLS
ELECTRICAL	
E-000	ELECTRICAL GENERAL INFORMATION
E-001	LIGHTING SCHEDULES
ELD102.1	LIGHTING DEMOLITION PLAN-SECOND LEVEL-ZONE 1
EPD102.1	POWER DEMOLITION PLAN-SECOND LEVEL-ZONE 1
ETD102.1	TECHNOLOGY DEMOLITION PLAN-SECOND LEVEL-ZONE 1
EL102.1	LIGHTING PLAN-SECOND LEVEL-ZONE 1
EL102.1A	LIGHTING PLAN-SECOND LEVEL-ZONE 1A
EL102.1B	LIGHTING PLAN-SECOND LEVEL-ZONE 1B
EL102.1C	LIGHTING PLAN-SECOND LEVEL-ZONE 1C
EL102.1D	LIGHTING PLAN-SECOND LEVEL-ZONE 1D
EP102.1	POWER PLAN-SECOND LEVEL-ZONE 1
EP102.1A	POWER PLAN-SECOND LEVEL-ZONE 1A
EP102.1B	POWER PLAN-SECOND LEVEL-ZONE 1B
EP102.1C	POWER PLAN-SECOND LEVEL-ZONE 1C
EP102.1D	POWER PLAN-SECOND LEVEL-ZONE 1D
ET102.1	TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1
ET102.1A	TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1A
ET102.1B	TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1B
ET102.1C	TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1C
ET102.1D	TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1D
E-300	ELECTRICAL ELEVATIONS
E-500	ELECTRICAL DETAILS
E-501	ELECTRICAL DETAILS
E-600	PANEL SCHEDULES
E-702	LOW VOLTAGE RISER DIAGRAM

TOTAL SHEETS: 117

GENERAL NOTES:

1. ALL REFERENCES TO OWNER IN THESE DOCUMENTS REFER TO THE VA, THE CO AND/OR THE COR.
2. ALL REFERENCES TO GOVERNMENT IN THESE DOCUMENTS REFER TO THE VA, THE CO AND/OR THE COR.
3. PRODUCTS LISTED HEREIN BY MANUFACTURER'S TRADE NAME AND NUMBERS ARE TO BE USED FOR BASIS OF DESIGN ONLY, U.N.O. PRODUCTS ARE SUBJECT TO COMPLIANCE WITH SALIENT CHARACTERISTICS AND REQUIREMENTS IN THE SPECIFICATIONS. PROVIDE PRODUCTS LISTED OR COMPARABLE PRODUCTS BY OTHER MANUFACTURERS.

DEDUCTIVE ALTERNATE LEGEND:

- DEDUCTIVE ALTERNATE #1
  1. REMOVE BUILT-IN CASEWORK AND REPLACING WITH FURNITURE PACKAGE IN ROOMS: A2013, A2014, A2020, A2022, A2058 AND A2060.
- DEDUCTIVE ALTERNATE #2
  1. EVERYTHING IN DEDUCTIVE ALTERNATE #1.
  2. PARTIAL HEIGHT WALL:
     A. REMOVE RESIN PANEL, ALL INTERNAL BLOCKING/ SUPPORTS USED TO SUPPORT RESIN PANEL, ALL COLD FORMED METAL FRAMING AND SOLID SURFACE SILL. MODIFY WALL TO BE PARTITION TYPE '2A', FULL HEIGHT, CONNECTING TO THE DECK ABOVE.
     B. REMOVE CEILING, LMC-1, AND (3) DOWNLIGHTS, L7, LOCATED IN ALCOVE A2079. REPLACE WITH GYPSUM BOARD BULKHEAD, HEIGHT AT 7'-0" A.F.F. AND ADD (3) DOWNLIGHTS, L5. PAINT BULKHEAD AS INDICATED IN REFLECTED CEILING PLAN LEGEND.
  3. REMOVE FOLDING GLASS PARTITION SYSTEM IN ITS ENTIRETY FROM THE SCOPE OF WORK. TO INCLUDE: RESIN PANELS, HARDWARE, TRACKS, AND ALL STRUCTURAL STEEL.
- DEDUCTIVE ALTERNATE #3
  1. EVERYTHING IN DEDUCTIVE ALTERNATE #1 AND #2.
  2. REMOVE LMC-1 AND LINEAR LIGHT FIXTURES, L22, OVER INFUSION BAYS A2068, A2070, A2072, A2074, A2076, A2078, A2080, A2081, A2082, AND A2083. REPLACE WITH SMC-1 AND 2X2 LIGHTING FIXTURES, L2. LIGHT FIXTURE COUNT TO REMAIN THE SAME.
- DEDUCTIVE ALTERNATE #4
  1. EVERYTHING IN DEDUCTIVE ALTERNATE #1, #2, AND #3.
  2. REMOVE IN-FLOOR RECESSED SCALE IN ITS ENTIRETY FROM THE SCOPE OF WORK. TO INCLUDE: CONCRETE WORK, IN FLOOR POWER / DATA ASSOCIATED WORK, AND RECESSED SCALE EQUIPMENT IN WEIGHT ALCOVES A2024 AND A2063.

SIGNATURE BLOCK 553-21-100

POSITION	SIGNATURE	DATE
Medical Center Director		
Associate Medical Center Director		
Chief, FMS		
Chief, Engineering Section		
Chief, Safety		
COR		
Energy Manager		

SOLE SOURCE LIST

DIVISION	ITEM	BRAND
07 81 00	FS-1 FOR FIRESTOPPING	HILTI
08 71 00	LATCH AND LOCK SETS	YALE
08 71 00	PUSH BUTTON COMBINATION LOCKSET	ALARM LOCK TRILOGY DL3500
22 63 00	VACUUM SYSTEMS	CHEMTRON
22 63 00	MEDICAL GASES	CHEMTRON
23 09 23	DIRECT-DIGITAL CONTROL SYSTEM FOR HVAC	SIEMENS
26 22 00	DRY-TYPE TRANSFORMERS	SIEMENS
26 24 11	DISTRIBUTION SWITCHBOARDS	SIEMENS
26 24 16	ELECTRICAL PANELBOARDS	SIEMENS
26 24 19	MOTOR CONTROL CENTERS	SIEMENS
26 29 11	MOTOR STARTERS	SIEMENS
26 29 21	LOW-VOLTAGE DISCONNECT SWITCHES	SIEMENS
26 36 23	AUTOMATIC TRANSFER SWITCHES	EATON
26 43 13	TRANSIENT-VOLTAGE SURGE SUPPRESSION	SIEMENS
27 52 23	NURSE CALL AND CODE BLUE SYSTEMS	RAULAND-BORG
28 31 00	FIRE DETECTION AND ALARM	SIMPLEX
XX XX XX	PATIENT LIFT	ARJO, SKI-2
XX XX XX	CCTV SYSTEM AND ACCESS CONTROL SYSTEM (CARD READERS)	SECURITY 2000
XX XX XX	ALARM SYSTEM (COMPUTER, 2 ALT KEYS ON PAD)	LYNX ALARM SYSTEM

RESPONSIBILITY MATRIX

DESCRIPTION	SPECIFIED BY	AI	REMARK
TIS - CONDUIT, BOXES AND RACEWAYS	ARCHITECT	C C	COORDINATE W/ SH AND GMH STANDARDS AND STAFF
TIS - CABLE, CABLE INSTALLATION, AND TERMINATIONS	ARCHITECT	C C	ARCHITECT COORDINATES W/ DESIGN
TIS - MONITOR BRACKETS/MOUNTS	GOVERNMENT	C C	BLOCKING BY CONTRACTOR
TIS - EQUIPMENT	ARCHITECT	C C	ARCHITECT COORDINATES W/ DESIGN, POWER, ETC.
SECURITY SYSTEM - CONDUIT AND BOXES	ARCHITECT	C C	COORDINATE W/ SH AND GMH STANDARDS AND STAFF
SECURITY SYSTEM - CABLE, CABLE INSTALLATION, AND TERMINATIONS	ARCHITECT	C C	COORDINATE W/ SH AND GMH STANDARDS AND STAFF
SECURITY SYSTEM - EQUIPMENT	ARCHITECT	C C	ARCHITECT COORDINATES W/ DESIGN, LOCATION, POWER, ETC.
NURSE CALL - CONDUIT, BOXES AND RECEWAYS	ARCHITECT	C C	COORDINATE W/ SH AND GMH STANDARDS AND STAFF
NURSE CALL - CABLE, CABLE INSTALLATION, AND TERMINATIONS	ARCHITECT	C C	-
NURSE CALL - EQUIPMENT	ARCHITECT	C C	ARCHITECT COORDINATES W/ DESIGN
FIRE ALARM - CONDUIT, BOXES AND RECEWAYS	ARCHITECT	C C	-
FIRE ALARM - CABLE, CABLE INSTALLATION, AND TERMINATIONS	ARCHITECT	C C	-
FIRE ALARM - EQUIPMENT	ARCHITECT	C C	-
PAGING - CONDUIT, BOXES AND RECEWAYS	ARCHITECT	C C	COORDINATE W/ SH AND GMH STANDARDS AND STAFF
PAGING - CONDUIT, CABLE INSTALLATION,AND TERMINATIONS	ARCHITECT	C C	-
PAGING - EQUIPMENT, SPEAKERS	ARCHITECT	C C	ARCHITECT COORDINATES W/ DESIGN
CCTV - CONDUIT, BOXES AND RACEWAYS	ARCHITECT	C C	COORDINATE W/ SH AND GMH STANDARDS AND STAFF
CCTV - CABLE, CABLE INSTALLATION, AND TERMINATIONS	ARCHITECT	C C	-
CCTV - MONITOR-BRACKET/ MOUNTS	GOVERNMENT	V C	BLOCKING BY CONTRACTOR
CCTV - EQUIPMENT	ARCHITECT	C C	ARCHITECT COORDINATES W/ DESIGN, BLOCKING BY CONTRACTOR
COMMISSIONING	GOVERNMENT	V V	

STATE OF MICHIGAN — ELIZABETH J. WESTRATE — ENGINEER — No. 6201051254 — LICENSED PROFESSIONAL ENGINEER

STATE OF MICHIGAN — KELLY JO HOMIC — No. 1101057359 — LICENSED ARCHITECT

STATE OF MICHIGAN — JAMES LARKIN — ENGINEER NO. 37732 — LICENSED PROFESSIONAL ENGINEER

STATE OF MICHIGAN — SCOTT E TOWNSEND — ENGINEER — No. 6201051254 — LICENSED PROFESSIONAL ENGINEER

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
35% SCHEMATIC DESIGN	02-MAR-2022
Revisions:	Date:

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STAMP

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

Drawing Title: COVER SHEET
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
Building Number
Drawing Number: G-001

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INFECTION CONTROL RISK MITIGATION REQUIREMENTS MATRIX

CATEGORY OF CONSTRUCTION, RENOVATION AND/OR MAINTENANCE TABLE

CATEGORY A

INSPECTION AND/OR FACILITY UPKEEP GENERALLY DEFINED AS FOLLOWS :

- WORK CAN BE COMPLETED IN A SINGLE SHIFT, NOT TO EXCEED 10 HOURS.
- PATIENTS AND/OR EMPLOYEES MAY BE IN THE AREA DEPENDING ON THE ACTIVITY.
- WORK THAT DOES NOT CREATE DUST OR DEBRIS.
- REMOVAL OF CEILING TILE OR ACCESS TO MECHANICAL OR ELECTRICAL CHASE FOR VISUAL INSPECTION LIMITED TO 1 TILE PER 50 SQUARE FEET WITH LIMITED EXPOSURE TIME (NOT TO EXCEED AN HOUR FOR EACH TILE) WITHIN THE SHIFT.
- MINOR INTERIOR UPDATES (E.G., REPLACING FLOOR OR CEILING TILES, CARPENTRY WORK TO INCLUDE HANGING SIGNAGE, AND PAINTING WITHOUT SANDING) THAT DO NOT CREATE DUST OR DEBRIS.
- LIMITED BUILDING SYSTEM MAINTENANCE SUCH AS PLUMBING ON POTABLE SYSTEMS LIMITED TO FAUCET REPLACEMENT ETC. AND ELECTRICAL WORK SUCH AS REPLACEMENT OF BULBS, RECEPTACLES, OR SWITCHES.

CATEGORY B

GENERAL MAINTENANCE AND REPAIR WORK GENERALLY DEFINED AS FOLLOWS:

- PROLONGED INSPECTION AND WORK THAT MAY TAKE LONGER THAN A SINGLE SHIFT BUT NOT EXCEEDING A WEEK.
- PATIENTS AND EMPLOYEES ARE NOT TO BE IN THE AREA UNTIL ACTIVITY IS COMPLETED.
- WORK THAT CREATES MINIMAL DUST AND DEBRIS.
- INTERIOR FINISH OR SURFACE REPAIRS, UPDATES, OR MODIFICATIONS SUCH AS REPAIR OF FIREWALLS AND BARRIERS, AND NEW FLOORING THAT PRODUCES MINIMAL DUST AND DEBRIS. CONTROLLED SANDING ACTIVITIES (E.G., WET OR DRY SANDING) THAT PRODUCE MINIMAL DUST AND DEBRIS.
- PLUMBING WORK SUCH AS INSTALLATION OR REPLACEMENT OF A SINGLE FIXTURE OR PIPING FOR A SINGLE FIXTURE. ANY WORK ON SANITARY PLUMBING INCLUDING SNAKING OF DRAINS.
- ELECTRICAL WORK SUCH AS INSTALLATION OF CABLING/WIRING/CONDUIT FOR A SINGLE DEVICE, INSTALLATION OF NEW DEVICE SUCH AS A LIGHT FIXTURE THAT PRODUCES MINIMAL DUST AND DEBRIS.
- AIR HANDLER AND/OR FAN SHUTDOWN/STARTUP AND HVAC WORK SUCH AS REPLACEMENT OF A SINGLE DIFFUSER, SINGLE TERMINAL UNIT OR A SINGLE DEVICE THAT PRODUCES MINIMAL DUST AND DEBRIS.

CATEGORY C

SMALL-SCALE CONSTRUCTION, RENOVATION, OR MAINTENANCE GENERALLY DEFINED AS FOLLOWS :

- WORK REQUIRING LONGER THAN A SINGLE WEEK TO COMPLETE BUT NOT EXCEEDING 6 MONTHS.
- PATIENTS AND EMPLOYEES ARE NOT TO BE IN THE AREA UNTIL ACTIVITY IS COMPLETED.
- DEMOLITION/REMOVAL OF PREEXISTING FLOOR COVERING, CASEWORK, LAY-IN CEILING, OR OTHER ARCHITECTURAL ELEMENTS.
- DEMOLITION/REMOVAL OF MORE THAN 32 FT ² OF DRYWALL/FRAMING, HARD CEILINGS, AND DOORS/FRAMING AND MINIMAL INFRASTRUCTURE SUCH AS ELECTRICAL CIRCUITS AND BRANCH PIPING.
- INSTALLATION OF NEW WALLS, CEILINGS AND DOORS INCLUDING FRAMING, DRYWALL/PLASTER AND ASSOCIATED WORK.
- PLUMBING WORK SUCH AS THE INSTALLATION OF NEW SINKS, SHOWERS AND TOILETS AND ASSOCIATED PLUMBING.
- SHUT DOWN OF SECTIONS OF POTABLE WATER SYSTEMS.
- ELECTRICAL WORK SUCH AS INSTALLATION OF CONDUIT AND WIRE FOR LIGHTING, RECEPTACLES AND SWITCHES FOR AN AREA, THE INSTALLATION OF CONDUIT AND WIRE FOR NEW DEVICES SUCH AS TERMINAL UNITS, FANS ETC.
- MODIFICATION OF EXISTING FIRE ALARM AND SUPPRESSION SYSTEMS.
- MECHANICAL WORK SUCH AS THE INSTALLATION OF DUCTWORK, DIFFUSERS, AND TERMINAL UNITS FOR AN AREA.

CATEGORY D

LARGE-SCALE CONSTRUCTION, RENOVATION, OR MAINTENANCE GENERALLY DEFINED AS FOLLOWS :

- WORK EXCEEDING 6 MONTHS IN DURATION.
- PATIENTS AND EMPLOYEES ARE NOT TO BE IN THE AREA UNTIL ACTIVITY IS COMPLETED.
- LARGE-SCALE DEMOLITION OF BUILDING COMPONENTS AND INFRASTRUCTURE INCLUDING REMOVAL OF MULTIPLE DOORS, WALLS, FRAMING, CEILINGS, FLOORING, PIPING, ELECTRICAL AND HVAC.
- THE INSTALLATION BUILDING COMPONENTS SUCH AS NEW WALLS, CEILINGS AND DOORS INCLUDING FRAMING, DRYWALL AND ASSOCIATED PLASTER WORK.
- PLUMBING WORK SUCH AS THE INSTALLATION OF:
- NEW MEDICAL GAS SYSTEMS,
- STEAM/HEATING HOT WATER, CONDENSATE SYSTEMS,
- MULTIPLE SINKS, SHOWERS AND TOILETS INCLUDING ASSOCIATED PLUMBING.
- SHUTDOWN OF POTABLE WATER, STEAM/HEATING HOT WATER, CONDENSATE, AND MEDICAL GAS SYSTEMS.
- ELECTRICAL WORK SUCH AS INSTALLATION OF ELECTRICAL FEEDERS, DISTRIBUTION PANELS, CONDUIT AND WIRE FOR LIGHTING, RECEPTACLES AND SWITCHES FOR AN AREA, THE INSTALLATION OF CONDUIT AND WIRE FOR NEW DEVICES SUCH AS TERMINAL UNITS, FANS ETC.
- INSTALLATION OF FIRE ALARM AND SUPPRESSION SYSTEMS.
- ELECTRICAL SHUTDOWN OF MULTIPLE PANELS.
- MECHANICAL WORK SUCH AS THE INSTALLATION OF AIR HANDLING EQUIPMENT, ASSOCIATED DUCTWORK, DIFFUSERS, HEAT EXCHANGERS, TERMINAL UNITS AND CONTROLS.

PATIENT RISK CATEGORY

LOW RISK

NON-PATIENT CARE AREAS SUCH AS:

- PUBLIC HALLWAYS AND GATHERING AREAS NOT IN CLINICAL AREAS
- OFFICE AREAS NOT IN CLINICAL AREAS
- BREAKROOMS NOT IN CLINICAL AREAS
- BATHROOMS OR LOCKER ROOMS NOT IN CLINICAL AREAS
- MECHANICAL/ELECTRICAL ROOMS NOT IN CLINICAL AREAS

MEDIUM RISK

PATIENT CARE SUPPORT AREAS SUCH AS:

- WAITING AREAS
- CLINICAL ENGINEERING (BIOMEDICAL)
- MATERIALS MANAGEMENT
- STERILE PROCESSING DEPARTMENT – DIRTY SIDE
- KITCHEN, CAFETERIA, GIFT SHOP, COFFEE SHOP, AND FOOD KIOSKS

HIGH RISK

PATIENT CARE AREAS SUCH AS:

- PATIENT CARE ROOMS AND AREAS, INCLUDING SPINAL CORD INJURY UNITS
- ALL ACUTE CARE UNITS, INCLUDING MENTAL HEALTH
- ALL OUTPATIENT UNITS AND CLINICS
- EMERGENCY DEPARTMENT
- COMMUNITY LIVING CENTERS, DOMICILIARIES, AND TRANSITIONAL RESIDENCES
- EMPLOYEE HEALTH
- PHARMACY – GENERAL WORK ZONE
- MEDICATION ROOMS AND CLEAN UTILITY ROOMS
- IMAGING SUITES – DIAGNOSTIC IMAGING
- LABORATORY

HIGHEST RISK

PROCEDURAL, INVASIVE, STERILE SUPPORT AND HIGHLY COMPROMISED PATIENT CARE AREAS SUCH AS:

- ALL TRANSPLANT UNITS
- ALL INTENSIVE CARE UNITS
- ALL ONCOLOGY UNITS AND CHEMOTHERAPY/INFUSION CENTERS
- OR THEATERS AND RESTRICTED AREAS
- HEMODIALYSIS UNITS PROCEDURAL ROOMS*
- PHARMACY COMPOUNDING AREA
- STERILE PROCESSING DEPARTMENT – CLEAN SIDE
- TRANSFUSION SERVICES
- IMAGING SUITES – INTERVENTIONAL IMAGING
- DEDICATED ISOLATION WARDS/UNITS FOR INFECTIOUS DISEASES

REQUIRED INFECTION PREVENTION AND CONTROL MEASURES, BY LEVEL OF PRECAUTIONS

	CONTROL MEASURES: DURING CONSTRUCTION OF ACTIVITY	CONTROL MEASURES: UPON COMPLETION OF ACTIVITY
LEVEL I	1. PERFORM WORK ACTIVITY IN A MANNER THAT DOES NOT CREATE DUST. 2. IMMEDIATELY REPLACE ANY CEILING TILE, CLOSE ACCESS PANELS, ETC., UPON COMPLETION OF WORK. 3. ANY MATERIALS AND EQUIPMENT BEING BROUGHT INTO THE FACILITY MUST BE FREE OF CONTAMINANTS AND LOOSE MATERIAL.	**WORK AREA CLEANING:** 1. CLEAN WORK AREAS INCLUDING ALL ENVIRONMENTAL SURFACES, HIGH HORIZONTAL SURFACES AND FLOORING MATERIALS. 2. CHECK ALL SUPPLY AND RETURN AIR REGISTERS FOR DUST ACCUMULATION ON UPPER SURFACES AS WELL AS AIR DIFFUSER SURFACES. **HVAC SYSTEMS:** 1. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED. VERIFY THAT HVAC SYSTEMS ARE CLEAN AND OPERATIONAL. 2. VERIFY THE HVAC SYSTEMS MEET ORIGINAL AIRFLOW AND AIR EXCHANGE DESIGN SPECIFICATIONS. **WATER SYSTEMS:** 1. UNTIL THE POTABLE WATER SYSTEM IS ACTIVATED AND IN USE, FLUSHING SHALL CONTINUE AT LEAST TWICE PER WEEK IN ACCORDANCE WITH VHA DIRECTIVE 1061.
LEVEL II	**ALL CONTROL MEASURES IN LEVEL I AND THE FOLLOWING:** 1. PROVIDE ACTIVE MEANS TO CONTROL AIRBORNE DUST FROM DISPERSING INTO OCCUPIED AREAS AND/OR WATER MIST SURFACE TO CONTROL DUST (E.G., MOBILE DUST CONTAINMENT CART OR SOME OTHER SYSTEM). 2. ENSURE WORKER CLOTHING IS CLEAN AND FREE OF VISIBLE DUST BEFORE LEAVING THE WORK AREA. 3. REMOVE OR ISOLATE AIR DIFFUSERS (SUPPLY AND RETURN) TO PROTECT THE HVAC SYSTEM FROM DUST AND REDUCE AIR TURBULENCE. REBALANCE SYSTEM TO ADDRESS DIFFUSER ISOLATION. 4. WHEN THE WORK INVOLVES OR IMPACTS POTABLE WATER SYSTEMS INCLUDING STAGNATION DUE TO REDUCED USAGE, THE PIPING SHALL BE FLUSHED TWICE A WEEK OR ISOLATED FROM THE MAIN SYSTEM. 5. SEAL DOORS TO PREVENT DUST MIGRATION. 6. CONTAIN ALL TRASH AND DEBRIS IN THE WORK AREA. PERFORM DAILY CLEANING AND DISPOSAL OF TRASH (COVERED) FROM WORK AREA USING AN IDENTIFIED EXIT ROUTE. 7. ANY EQUIPMENT, TOOLS, OR MATERIALS REMOVED FROM THE WORK AREA MUST BE IN SEALED CONTAINERS AND/OR CLEANED OF DUST AND DEBRIS PRIOR TO REMOVAL FROM THE AREA. 8. NONPOROUS/SMOOTH AND CLEANABLE CONTAINERS (WITH A HARD LID) MUST BE USED TO TRANSPORT TRASH AND DEBRIS FROM THE CONSTRUCTION AREAS. THESE CONTAINERS MUST BE DAMP-WIPED CLEANED AND FREE OF VISIBLE DUST/DEBRIS BEFORE LEAVING THE CONTAINED WORK AREA. 9. INSTALL A STICKY (DUST COLLECTION) MAT AT ENTRANCE OF CONTAINED WORK AREA BASED ON FACILITY POLICY. STICKY MATS MUST BE CHANGED ROUTINELY AND WHEN VISIBLY SOILED. 10. MAINTAIN CLEAN SURROUNDINGS WHEN AREA IS NOT CONTAINED BY DAMP MOPPING OR HEPA VACUUMING SURFACES AT LEAST DAILY.	
LEVEL III	**ALL CONTROL MEASURES IN LEVELS I AND II AND THE FOLLOWING:** 1. ENSURE AVAILABILITY OF EQUIPMENT FOR CLEANING HANDS. 2. CONSTRUCT AND COMPLETE CRITICAL BARRIERS MEETING NFPA 241 REQUIREMENTS. BARRIERS MUST EXTEND TO THE CEILING OR IF CEILING TILE IS REMOVED, TO THE DECK ABOVE. 3. ALL (PLASTIC OR HARD) BARRIER CONSTRUCTION ACTIVITIES MUST BE COMPLETED IN A MANNER THAT PREVENTS DUST RELEASE. PLASTIC BARRIERS MUST BE EFFECTIVELY AFFIXED TO FLOOR AND CEILING (OR FLOOR/ROOF DECK ABOVE) AND SECURE FROM MOVEMENT OR DAMAGE. 4. SEAL ALL PENETRATIONS IN CONTAINMENT BARRIERS, INCLUDING FLOORS AND CEILING, USING APPROVED MATERIALS (UL SCHEDULE FIRESTOP IF APPLICABLE FOR BARRIER TYPE). 5. MAINTAIN .01 INCHES IWATER GAUGE NEGATIVE PRESSURIZATION OF THE ENTIRE WORKSPACE BY USE OF HEPA EXHAUST AIR SYSTEMS DIRECTED OUTDOORS (UNLESS A WORK SPECIFIC WAIVER IS APPROVED BY VHA 'S OFFICE OF HEALTHCARE ENGINEERING); THIS MUST BE MAINTAINED CONTINUOUSLY 24/7 FOR THE DURATION OF THE PROJECT. EXHAUST DISCHARGED DIRECTLY TO THE OUTDOORS THAT IS 25 FEET OR GREATER FROM ENTRANCES, AIR INTAKES AND WINDOWS IS NOT REQUIRED TO BE HEPA-FILTERED. EXHAUSTING DISCHARGED AIR INTO SHARED OR RECIRCULATING HVAC SYSTEMS, OR OTHER SHARED EXHAUST SYSTEMS (E.G., BATHROOM EXHAUST) IS PROHIBITED. 6. INSTALL A DIFFERENTIAL PRESSURE SENSING DEVICE (E.G., MAGNEHELIC, MANOMETER, OR DIGITAL MONITORING) ON EXTERIOR OF WORK CONTAINMENT TO CONTINUALLY MONITOR AND DOCUMENT NEGATIVE PRESSURIZATION. THE "BALL IN THE WALL" OR SIMILAR APPARATUS ARE NOT ACCEPTABLE.	CONSTRUCTION AREAS MUST BE INSPECTED BY AN INFECTION PREVENTIONIST AND ENGINEERING REPRESENTATIVE (AND OTHERS AS DETERMINED BY THE FACILITY) FOR FINAL ACTIVITY/PROJECT CLOSE OUT AND REMOVAL OF INFECTION PREVENTION AND CONTROL MEASURES. **WORK AREA CLEANING:** 1. CLEAN WORK AREAS INCLUDING ALL ENVIRONMENTAL SURFACES, HIGH HORIZONTAL SURFACES AND FLOORING MATERIALS. 2. CHECK ALL SUPPLY AND RETURN AIR REGISTERS FOR DUST ACCUMULATION ON UPPER SURFACES AS WELL AS AIR DIFFUSER SURFACES. **REMOVAL OF CRITICAL BARRIERS:** 1. CRITICAL BARRIERS MUST REMAIN IN PLACE DURING ALL WORK INVOLVING DRYWALL REMOVAL, CREATION OF DUST AND ACTIVITIES BEYOND SIMPLE TOUCH-UP WORK. THE BARRIER MAY NOT BE REMOVED UNTIL A WORK AREA CLEANING HAS BEEN PERFORMED. ADDITIONAL CLEANING MAY BE NEEDED AFTER REMOVAL OF BARRIER. 2. ALL (PLASTIC OR HARD) BARRIER REMOVAL ACTIVITIES MUST BE COMPLETED IN A MANNER THAT PREVENTS DUST RELEASE. USE THE FOLLOWING PRECAUTIONS WHEN REMOVING HARD BARRIERS: A. CAREFULLY REMOVE SCREWS AND PAINTER TAPE. B. IF DUST WILL BE GENERATED DURING SCREW REMOVAL, USE HAND-HELD HEPA VACUUM. C. DRYWALL CUTTING IS PROHIBITED DURING REMOVAL PROCESS. D. CLEAN ALL STUD TRACKS WITH HEPA VACUUM BEFORE REMOVING OUTER HARD BARRIER. E. USE A PLASTIC BARRIER TO ENCLOSE AREA IF DUST COULD BE GENERATED. **NEGATIVE AIR REQUIREMENTS:** 1. THE USE OF NEGATIVE AIR MUST BE DESIGNED TO REMOVE CONTAMINANTS FROM THE WORK AREA. 2. NEGATIVE AIR DEVICES (FANS, FILTERS, MONITORING AND DOCUMENTATION EQUIPMENT) MUST REMAIN OPERATIONAL AT ALL TIMES AND IN PLACE FOR A PERIOD AFTER COMPLETION OF DUST CREATING ACTIVITIES TO REMOVE CONTAMINANTS FROM THE WORK AREA AND BEFORE REMOVAL OF CRITICAL BARRIERS. **HVAC SYSTEMS:** 1. UPON REMOVAL OF CRITICAL BARRIERS, REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED. 2. VERIFY THAT HVAC SYSTEMS ARE CLEAN AND OPERATIONAL 3. VERIFY AND DOCUMENT THROUGH A TAB THE HVAC SYSTEMS MEETS ORIGINAL AIRFLOW AND AIR EXCHANGE DESIGN SPECIFICATIONS. **WATER SYSTEMS:** 1. UNTIL THE POTABLE WATER SYSTEM IS ACTIVATED AND IN USE, FLUSHING SHALL CONTINUE AT LEAST TWICE PER WEEK IN ACCORDANCE WITH VHA DIRECTIVE 1061.
LEVEL IV	**ALL CONTROL MEASURES IN LEVELS I, II AND III AND THE FOLLOWING:** 1. BARRIERS MUST BE HARD BARRIERS UNLESS TEMPORARY TO INSTALL FINAL BARRIER. 2. CONTAINMENT MUST INCLUDE AN ANTEROOM TO ENSURE PRESSURE CONTROL. ANTEROOM MUST BE LARGE ENOUGH FOR EQUIPMENT STAGING, CART CLEANING, WORKERS' PPE AND CLEANING. 3. WORKER CLOTHING AND/OR PPE MUST BE REMOVED OR CLEAN AND FREE OF VISIBLE DUST BEFORE LEAVING THE WORK AREA ANTEROOM. HEPA VACUUMING OF CLOTHING OR USE OF COVER SUITS IS ACCEPTABLE. 4. WORKERS MUST WEAR SHOE COVERS OR HAVE A METHOD TO CLEAN SHOES IN ANTEROOM. SHOE COVERS MUST BE REMOVED PRIOR TO EXITING THE ANTEROOM TO THE OCCUPIED SPACE (NON-WORK AREA). DAMAGED SHOE COVERS MUST BE CHANGED IMMEDIATELY.	

APPLICABLE CODES AND STANDARDS

BUILDING CODES:	EDITION
• NFPA 101 LIFE SAFETY CODE	2021
• NFPA NATIONAL FIRE CODES, WITH EXCEPTION OF NFPA 5000 AND NFPA 900	
• INTERNATIONAL BUILDING CODE (IBC)	2021
• ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARD (ABAAS)	
• VA BARRIER FREE DESIGN STANDARD (PG-18-13, SUPPLEMENT TO THE ABAAS)	
PLUMBING CODE:	
• INTERNATIONAL PLUMBING CODE (IPC)	2021
HVAC CODE:	
• INTERNATIONAL MECHANICAL CODE	2021
• ASME BOILER AND PRESSURE VESSEL CODE	
• ASME CODE FOR PRESSURE PIPING	
• ASHRAE STANDARD 62.1 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY	2004
• ASHRAE STANDARD 15 - SAFETY STANDARD FOR REFRIGERATION SYSTEMS	2007
• ASHRAE STANDARD 170 - VENTILATION OF HEALTH CARE FACILITIES	2017
ELECTRICAL CODE:	
• NATIONAL ELECTRICAL CODE (NEC - NFPA 70)	2020

CODE SUMMARY

OCCUPANCY CLASSIFICATION (NFPA 101: 6.1):
- HEALTH CARE *(UNCHANGED)*

BUILDING AREA:
- EXISTING BUILDING AREA: *(UNCHANGED)*
- AREA OF RENOVATION: 13,570 SF

TYPES OF CONSTRUCTION (NFPA 101: 18.1.6):
- II (222) *(UNCHANGED)*

AUTOMATIC SPRINKLER SYSTEM (NFPA 101: 9.7):
- EXISTING BUILDING FULLY SPRINKLED
- RENOVATION TO REWORK EXISTING SYSTEM FOR PLAN CHANGES

FIRE ALARM SYSTEM AND SMOKE DETECTION (NFPA 101: 9.6):
- EXISTING BUILDING FULLY ALARMED WITH SMOKE DETECTION
- RENOVATION TO REWORK AND TIE INTO EXISTING FIRE ALARM SYSTEM AND SMOKE DETECTION FOR PLAN CHANGES

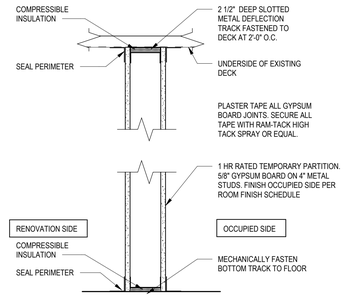
EGRESS REQUIREMENTS:
- EGRESS CAPACITY(LEVEL COMPONENTS & RAMPS) = 0.2"/OCCUPANT (NFPA 101: 7.3.3)
- COMMON PATH OF TRAVEL = 100' (NFPA 101: 18.2.5.3)
- DEAD ENDED CORRIDOR = 30' MAX. (NFPA 101: 18.2.5.2)
- TRAVEL DISTANCE TO EXITS = 200' MAX (NFPA 101: 18.2.6.2)

OCCUPANT LOADS FOR EGRESS (NFPA 101: 7.3.1.2):
- ONCOLOGY AREA: 114 TOTAL OCCUPANTS
- SATELLITE PHARMACY SUITE: 8 TOTAL OCCUPANTS

SUITES (NFPA 101: 18.2.5.7):
- NON-PATIENT CARE NON-SLEEPING SUITE (SATELLITE PHARMACY SUITE):
  MAX ALLOWABLE = 12,500 SF ACTUAL = 955 SF

FIRE RESISTANCE RATINGS FOR TYPE II (222)
COLUMNS (FLOOR LEVEL & INTERSTITIAL) - 2 HR
BEAMS, GIRDERS, AND TRUSSES (FLOOR LEVEL & INTERSTITIAL) - 2 HR
FLOOR DECK (FLOOR LEVEL, NOT INTERSTITIAL) - 2 HR

PATCH AND REPAIR ALL EXISTING FIRE RESISTANT MATERIAL AS REQUIRED DUE TO DAMAGE DONE BY DEMOLITION AND NEW WORK. FIRE RATING TO MATCH EXISTING.



TYPICAL TEMPORARY CONSTRUCTION PARTITION
NOTE: REFER TO G-200 FOR LOCATION OF CONSTRUCTION PARTITIONS

Revisions:	Date:
100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: **LIFE SAFETY AND ICRA LEGENDS**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **KJH**
Drawn: **MRB**
Project Number: **553-21-100**
Building Number:
Drawing Number: **G-002**

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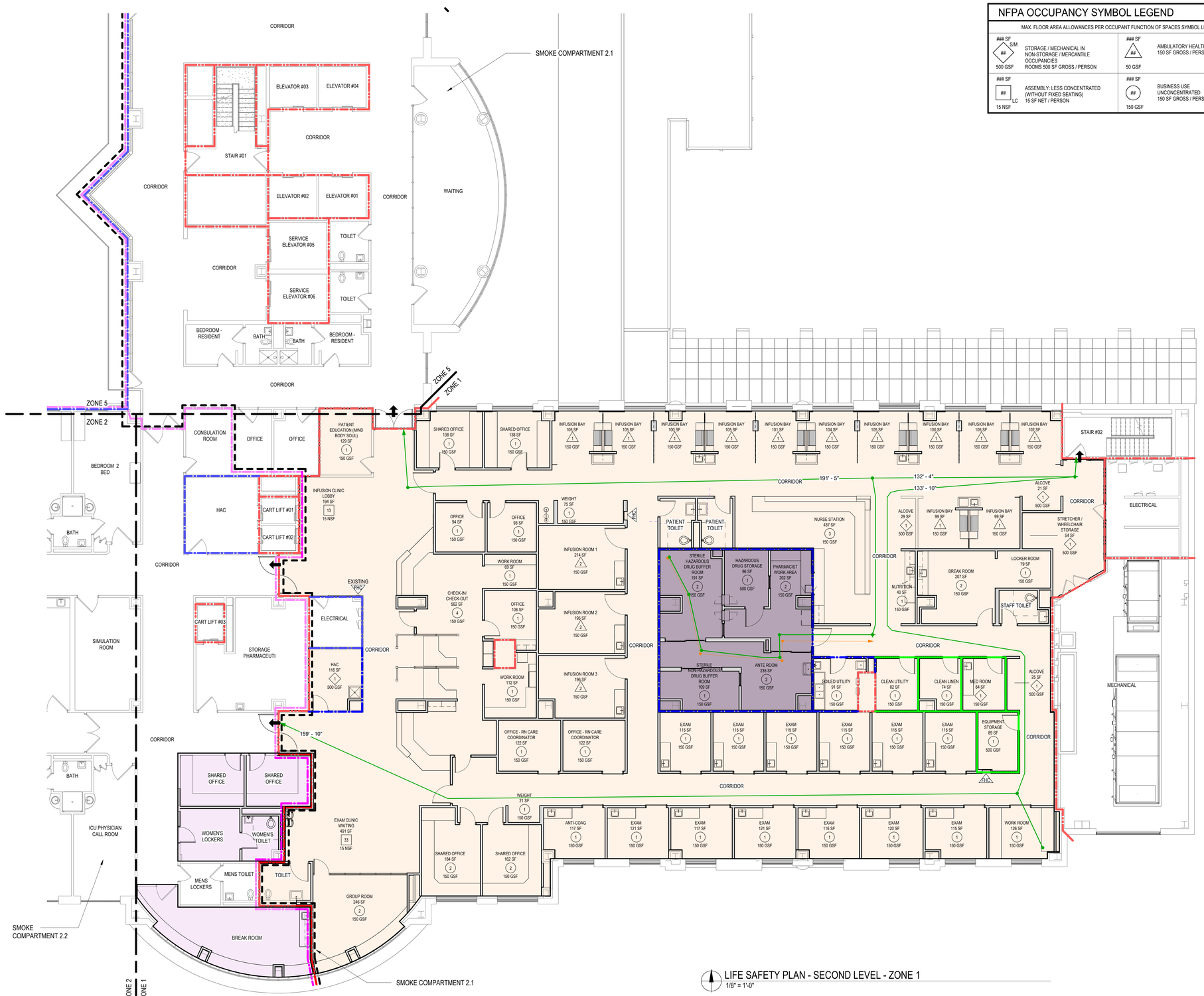


LIFE SAFETY PLAN - SECOND LEVEL - ZONE 1
1/8" = 1'-0"

NFPA OCCUPANCY SYMBOL LEGEND

MAX. FLOOR AREA ALLOWANCES PER OCCUPANT FUNCTION OF SPACES SYMBOL LEGEND

### SF / S/M / ## / 500 GSF — STORAGE / MECHANICAL IN NON-STORAGE / MERCANTILE OCCUPANCIES ROOMS 500 SF GROSS / PERSON	### SF / ## / 50 GSF — AMBULATORY HEALTH CARE 150 SF GROSS / PERSON
### SF / ## / LC / 15 NSF — ASSEMBLY: LESS CONCENTRATED (WITHOUT FIXED SEATING) 15 SF NET / PERSON	### SF / ## / 150 GSF — BUSINESS USE UNCONCENTRATED 150 SF GROSS / PERSON

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING NON-RATED SMOKE PARTITION
- EXISTING 1-HR. SMOKE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN ON PLAN. - VIF WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

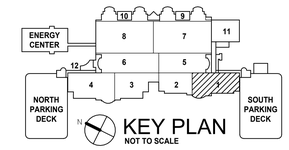
SYMBOL LEGEND

- FE — FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET
- FHC — FIRE HOSE CABINET
- ONCOLOGY CLINIC AREA
- SATELLITE PHARMACY SUITE
- A2 NORTH RENOVATIONS
- Length — TRAVEL DISTANCE TO EXITS
- Length — COMMON PATH OF TRAVEL
- # - MAX EGRESS CAPACITY — EXIT
- SMOKE COMPARTMENTS

SMOKE COMPARTMENT AREAS

SMOKE COMPARTMENT ZONE 2.1
EXIST COMPARTMENT = 21,317 SF
REVISED COMPARTMENT = 21,512 SF

SMOKE COMPARTMENT ZONE 2.2
EXIST COMPARTMENT = 20,016 SF
REVISED COMPARTMENT = 19,820 SF



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100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
35% SCHEMATIC DESIGN	02-MAR-2022

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WalterMechanical Services Inc.
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Flushing, Michigan, 48433
810-230-6202

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

Drawing Title: **LIFE SAFETY PLAN - SECOND LEVEL - ZONE 1**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **KJH**
Drawn: **MRB**
Project Number: **553-21-100**
Building Number:
Drawing Number: **G-102.1**

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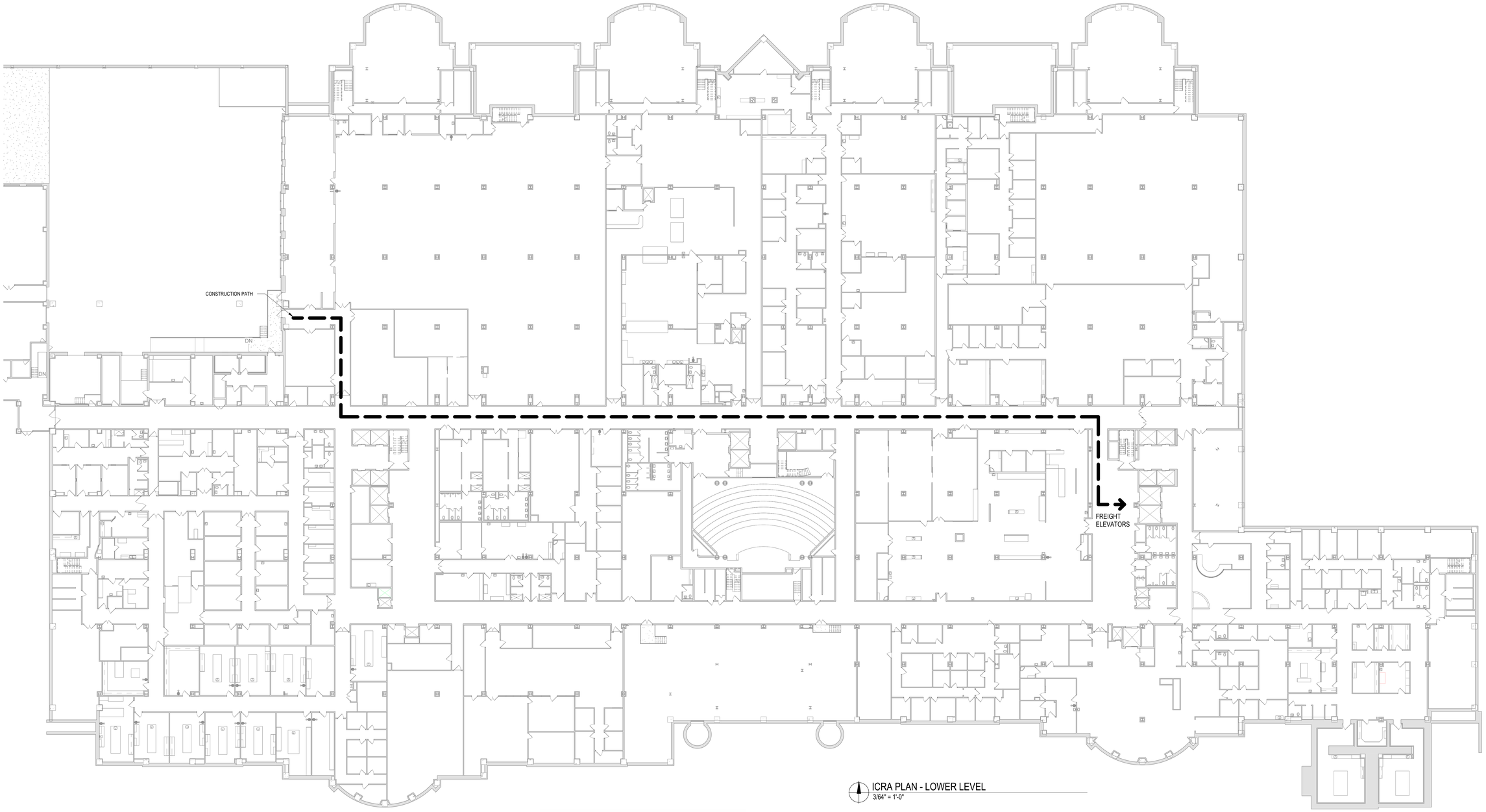
CONSTRUCTION GENERAL NOTES

1. ROUTE SHOWN IS RECOMMENDED BASED ON DISCUSSIONS WITH THE VA. FINAL ROUTE TO BE DECIDED UPON AFTER AWARD OF CONSTRUCTION WITH VA COR, ICRA OFFICER, VA POLICE AND SAFETY OFFICE.
2. ALL MATERIALS, PERSONNEL, AND REFUSE IS TO COMPLY WITH SPECIFICATIONS FOR PROTECTION OF BUILDING AND OCCUPANTS WHILE IN TRANSIT.
3. CONTRACTOR TO USE HARD WALL PARTITIONS OVER THE USE OF PLASTIC SHEETING FOR SEPARATION BETWEEN CONSTRUCTION AND EXISTING SPACES TO REMAIN FUNCTIONING. CONTRACTOR TO SUBMIT PROPOSED PLAN FOR TEMPORARY CONSTRUCTION PARTITION LOCATIONS FOR COR APPROVAL. TEMPORARY PARTITION LOCATIONS SHOWN HERE ARE RECOMMENDED LOCATIONS BASED ON WORK NEEDING TO BE COMPLETED, BUT DOES NOT CONSTITUTE FINAL LOCATIONS OR QUANITITIES.
4. PROVIDE WALK-OFF MATS DURING CONSTRUCTION, LOCATIONS ARE SUGGESTED, CONTRACTOR TO PROVIDE FINAL LOCATION.



ICRA PLAN - LOWER LEVEL
3/64" = 1'-0"

100% BID DOCUMENTS	10-JAN-2025
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Drawing Title: ICRA PLAN - LOWER LEVEL
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Issue Date: 10-JAN-2025
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Drawn: MRB
Project Number: 553-21-100
Building Number:
Drawing Number: G-200

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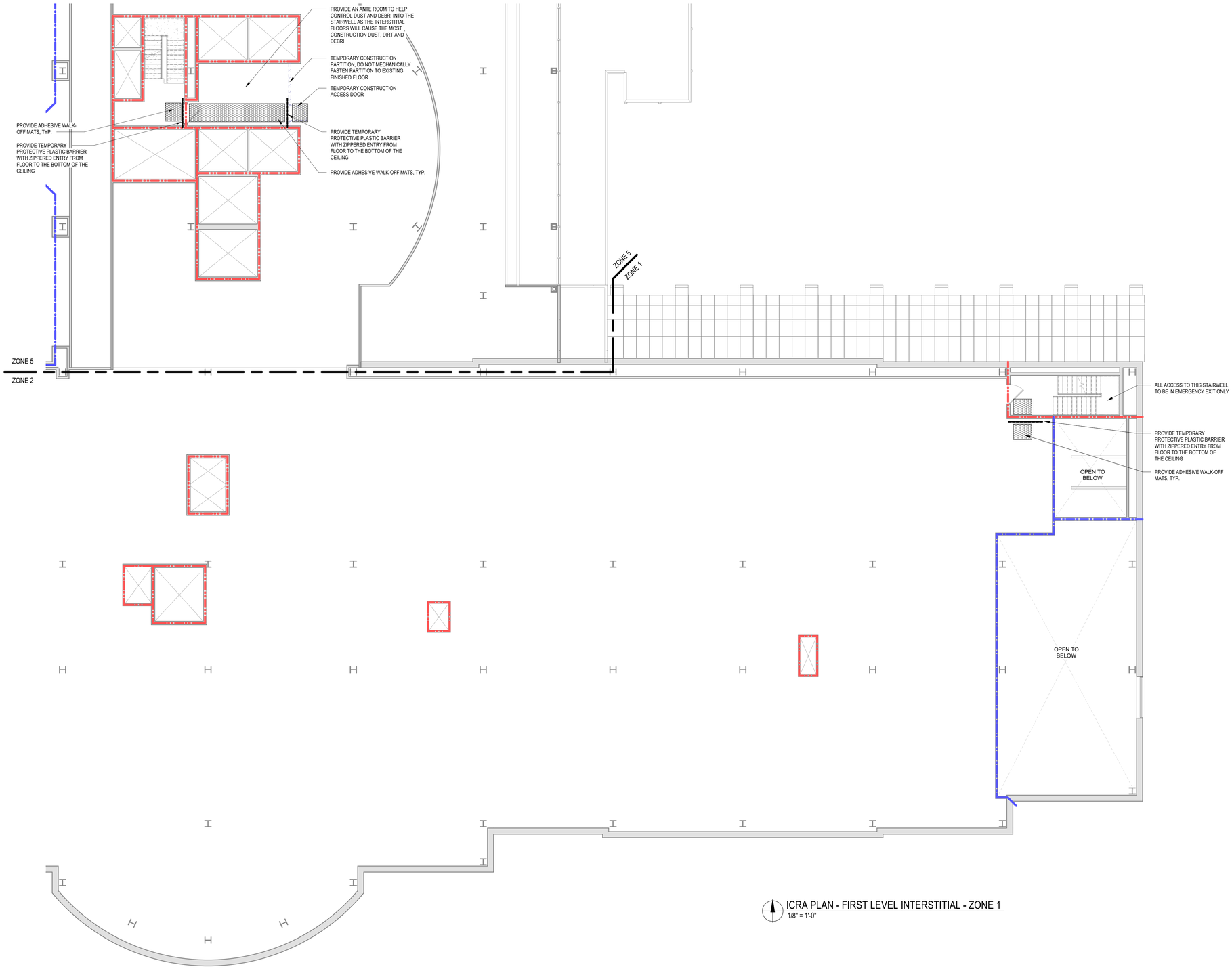

ICRA PLAN - FIRST LEVEL INTERSTITIAL - ZONE 1
1/8" = 1'-0"

LEVEL OF INFECTION PREVENTION AND CONTROL PRECAUTIONS

PATIENT RISK CATAGORY	ACTIVITY CATEGORY A	B	C	D
LOW RISK	I	II	II	III
MEDIUM RISK	I	II	III	IV
HIGH RISK	I	II	IV	IV
HIGHEST RISK	II	III	IV	IV

NOTE: AN INFECTION AND CONTROL PERMIT IS REQUIRED FOR LEVEL III AND LEVEL IV. CONSULT WITH INFECTION PREVENTION AND CONTROL FOR LEVEL I AND LEVEL II.

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER
- 1-HR FIRE RATED CONSTRUCTION BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

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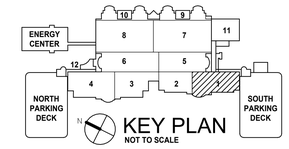

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Drawing Title: ICRA PLAN – FIRST LEVEL INTERSTITIAL – ZONE 1
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Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
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Checked: KJH
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Building Number:
Drawing Number: G-201.1I

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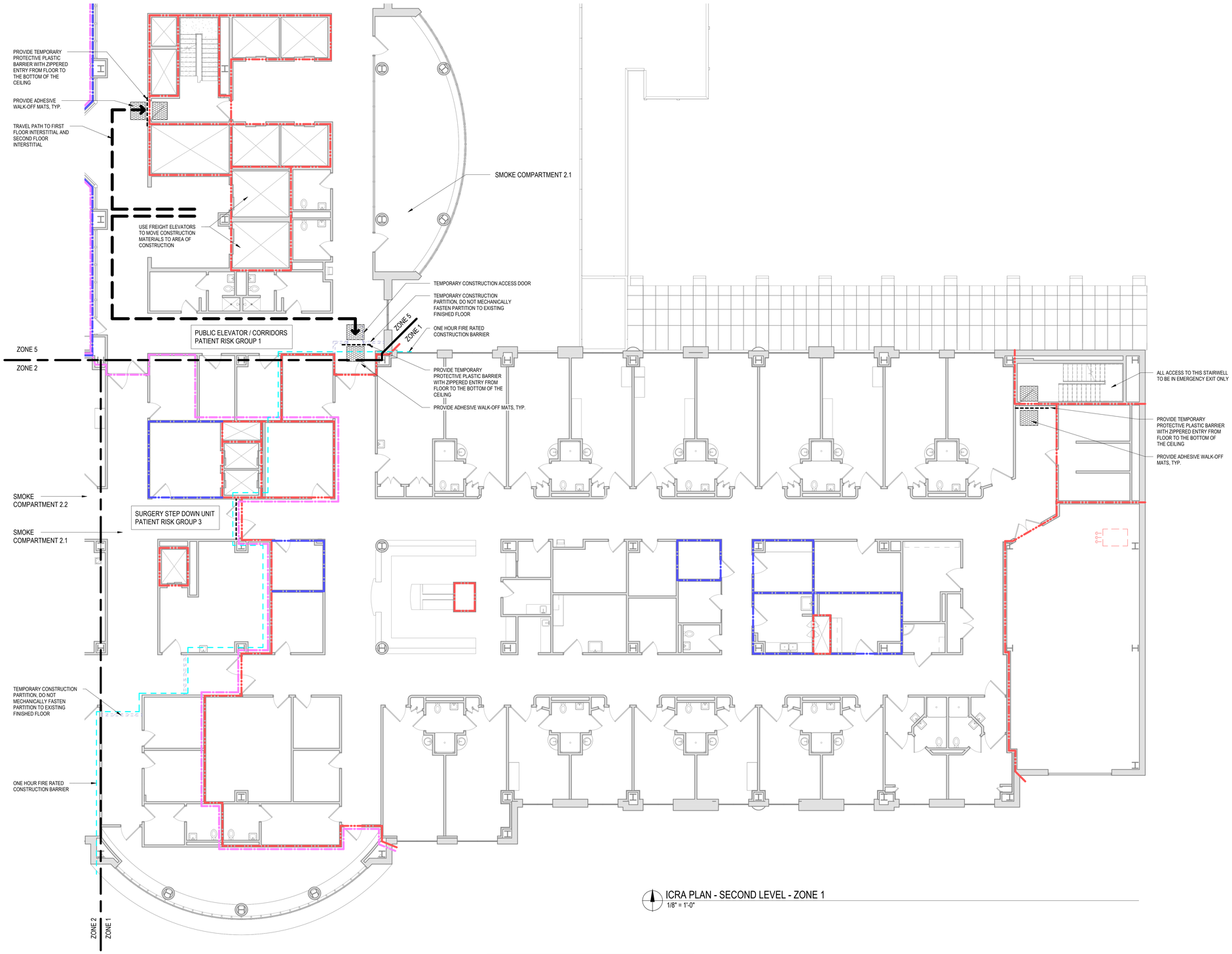

ICRA PLAN - SECOND LEVEL - ZONE 1
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LEVEL OF INFECTION PREVENTION AND CONTROL PRECAUTIONS

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- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER
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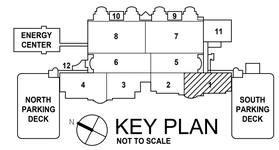

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Drawing Title: ICRA PLAN - SECOND LEVEL - ZONE 1
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
Building Number:
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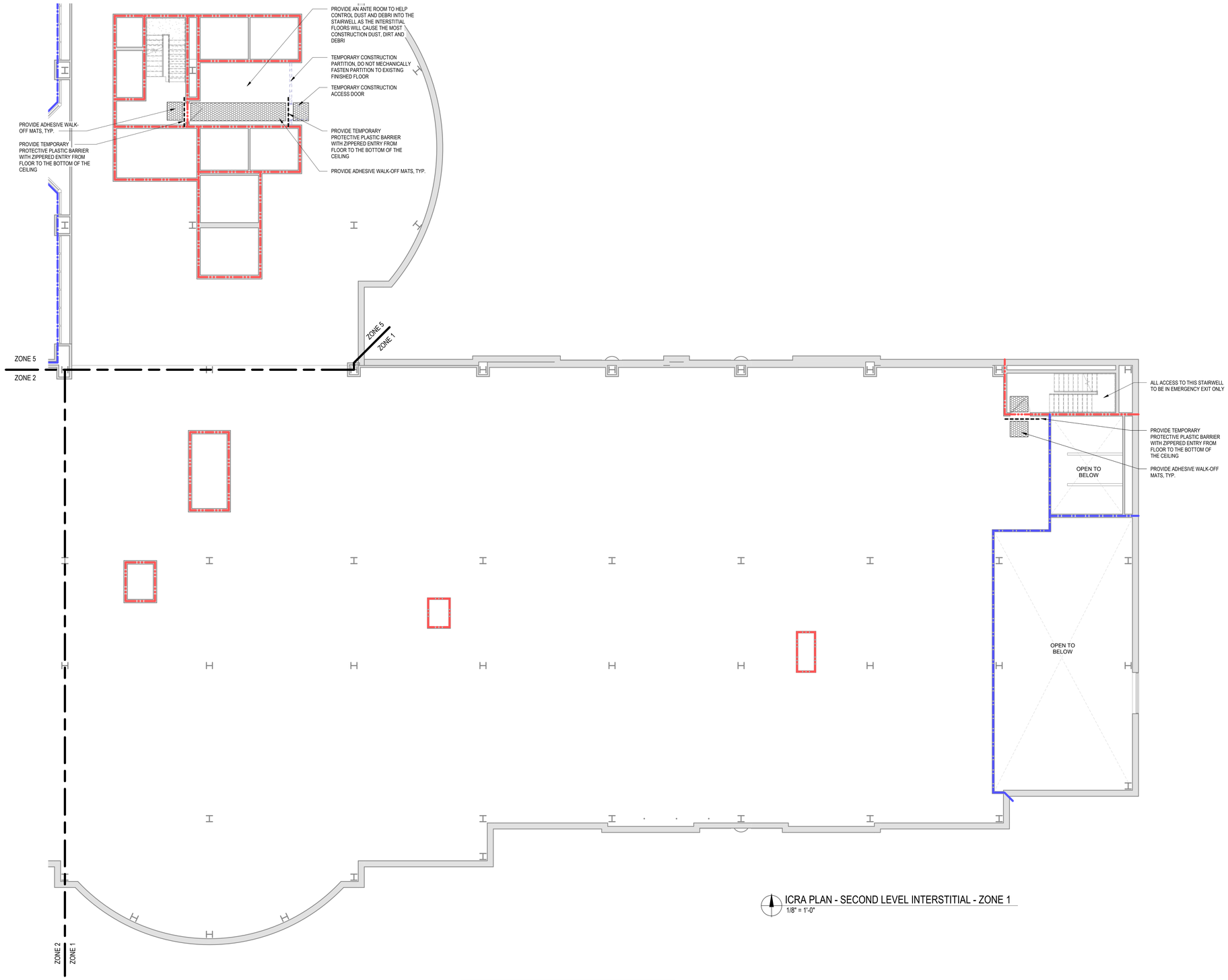

ICRA PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
1/8" = 1'-0"

LEVEL OF INFECTION PREVENTION AND CONTROL PRECAUTIONS

PATIENT RISK CATAGORY	ACTIVITY CATEGORY A	B	C	D
LOW RISK	I	II	II	III
MEDIUM RISK	I	II	III	IV
HIGH RISK	I	II	IV	IV
HIGHEST RISK	II	III	IV	IV

NOTE: AN INFECTION AND CONTROL PERMIT IS REQUIRED FOR LEVEL III AND LEVEL IV. CONSULT WITH INFECTION PREVENTION AND CONTROL FOR LEVEL I AND LEVEL II.

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER
- 1-HR FIRE RATED CONSTRUCTION BARRIER

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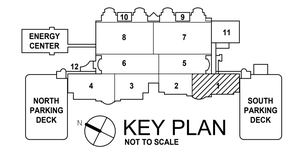

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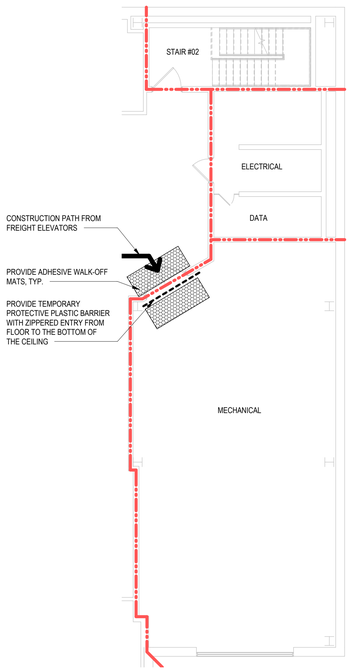
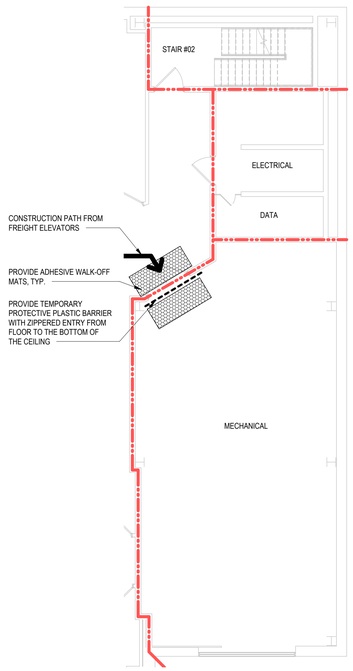
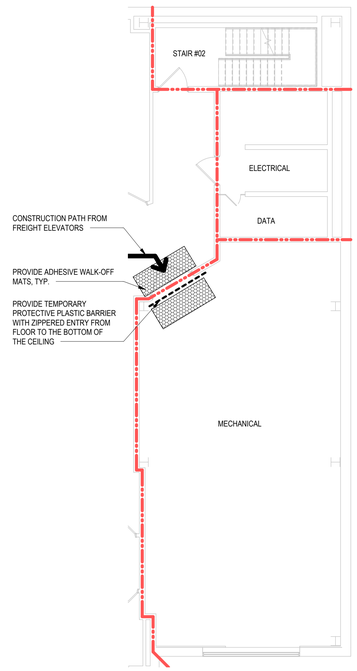


ICRA PLAN - SEVENTH LEVEL - ZONE 1D
1/8" = 1'-0"



ICRA PLAN - SIXTH LEVEL - ZONE 1D
1/8" = 1'-0"



ICRA PLAN - FIFTH LEVEL - ZONE 1D
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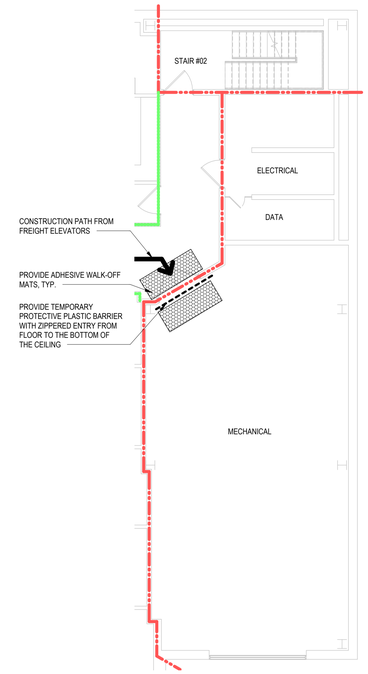

ICRA PLAN - FOURTH LEVEL - ZONE 1D
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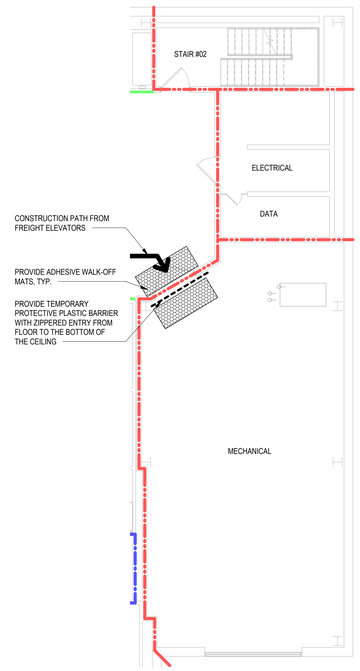
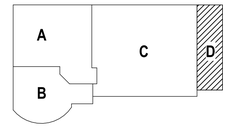


ICRA PLAN - THIRD LEVEL - ZONE 1D
1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

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ABBREVIATIONS

TYPE	DESCRIPTION	TYPE	DESCRIPTION
ALT.	ALTERNATE	LG.	LONG.
ARCH.	ARCHITECTURAL	LLH.	LONG LEG HORIZONTAL
AVG.	AVERAGE	LLV.	LONG LEG VERTICAL
AFF	ABOVE FINISH FLOOR	LONG.	LONGITUDINAL
		L.P.	LOW POINT
BFF	BELOW FINISH FLOOR	MAX.	MAXIMUM
BLDG.	BUILDING	MECH.	MECHANICAL
BOTT.	BOTTOM	MEZZ.	MEZZANINE
B.O.	BOTTOM OF	MANUF.	MANUFACTURER
BRG.	BEARING	MIN.	MINIMUM
		MISC.	MISCELLANEOUS
CANT.	CANTILEVER	M.O.	MASONRY OPENING
C.J.	CONTROL JOINT	N.S.	NEAR SIDE
CLR.	CLEAR		
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER
CONC.	CONCRETE	OPNG.	OPENING
CONST. JT.	CONSTRUCTION JOINT	O.D.	OUTSIDE DIAMETER
CONT.	CONTINUOUS	O.F	OUTSIDE FACE
		O.H.	OVERHANG
DIA.	DIAMETER	OHD	OVERHEAD DOOR
		O/O	OUT TO OUT
EA.	EACH	PSF	POUNDS PER SQUARE FT.
ELEC.	ELECTRICAL	PSI	POUNDS PER SQUARE IN.
ELEV./EL.	ELEVATION		
EQ.	EQUAL	REINF.	REINFORCING
E.W.	EACH WAY	REQ'D.	REQUIRED
EXIST.	EXISTING		
EXST.	EXISTING		
E.F.	EACH FACE	SIM.	SIMILAR
F.F.	FINISH FLOOR	T&B	TOP AND BOTTOM
FLR.	FLOOR	T.O.	TOP OF
FND.	FOUNDATION	T.O.F.	TOP OF FOOTING
FTG.	FOOTING	T.O.W.	TOP OF WALL
F.S.	FAR SIDE	T.O.P.	TOP OF PIER
		T.O.S.	TOP OF STEEL
GA.	GAUGE	TRANS.	TRANSVERSE
GALV.	GALVANIZED	TYP.	TYPICAL
HDG	HOT DIPPED GALVANIZED	U.N.O.	UNLESS NOTED OTHERWISE
HORIZ.	HORIZONTAL		
H.P.	HIGH POINT	VERT.	VERTICAL
		V.S.C	VERTICAL SLOTTED CONN.
INSUL.	INSULATION	V.B.F.	VERTICAL BRACED FRAME
I.F.	INSIDE FACE		
ISO.	ISOLATION	WWF	WELDED WIRE FABRIC
		W/	WITH

REQUIRED SPECIAL INSPECTIONS (2021 IBC SECTION 1705)

REQUIRED REPORTS AND CERTIFICATES ARE TO BE SENT TO THE BUILDING OFFICIAL FROM EITHER THE OWNER OR OWNER'S AUTHORIZED AGENT IN ACCORDANCE WITH SECTION 1704.2.4	SPECIAL INSPECTIONS TO BE PROVIDED BY APPROVED AGENCIES IN ADDITION TO INSPECTIONS BY BUILDING OFFICIAL
SPECIAL INSPECTIONS AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN ACCORDANCE WITH AISC 360. REFERENCED STANDARDS: IBC 1705.2.1	**PERIODIC**
SPECIAL INSPECTIONS AND WELDING QUALIFICATIONS OF SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK IN ACCORDANCE WITH SDI. REFERENCED STANDARDS: IBC 1705.2.2	**PERIODIC**
SPECIAL INSPECTIONS OF OPEN WEB STEEL JOISTS AND STEEL GIRDERS :	
WELDED OR BOLTED END CONNECTIONS IN ACCORDANCE WITH SJI. REFERENCED STANDARDS: IBC 1705.2.3, Z207.1	**N/A**
HORIZONTAL OR DIAGONAL BRIDGING IN ACCORDANCE WITH SJI. REFERENCED STANDARDS: IBC 1705.2.3, Z207.1	**N/A**
SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION :	
INSPECT REINFORCING AND PLACEMENT IN ACCORDANCE WITH ACI 318. REFERENCED STANDARDS: IBC 1705.3, 1908.4	**PERIODIC**
INSPECT REINFORCING BAR WELDABILITY IN ACCORDANCE WITH ACI 318. REFERENCED STANDARDS: IBC 1705.3, AWS D1.4	**N/A**
INSPECT ANCHORS CAST IN CONCRETE IN ACCORDANCE WITH ACI 318. REFERENCED STANDARDS: IBC 1705.3	**PERIODIC**
INSPECT POST INSTALLED ANCHORS IN HARDENED CONCRETE, INCLUDING ADHESIVE ANCHORS AND MECHANICAL ANCHORS, IN ACCORDANCE WITH ACI 318. REFERENCED STANDARDS: IBC 1705.3	**PERIODIC**
VERIFY USE OF CORRECT MIX DESIGN. REFERENCED STANDARDS: IBC 1705.3, 1904.1, 1904.2, 1908.2, 1908.3	**PERIODIC**
PRIOR TO CONCRETE PLACEMENT, PERFORM AIR CONTENT, SLUMP, AND TEMPERATURE TESTS AND FABRICATE SPECIMENS FOR STRENGTH TESTING IN ACCORDANCE WITH ASTM C172 AND ASTM C31. REFERENCED STANDARDS: IBC 1705.3, 1908.10	**CONTINUOUS**
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES IN ACCORDANCE WITH ACI 318. REFERENCED STANDARDS: IBC 1705.3, 1908.6, 1908.7, 1908.8	**CONTINUOUS**
INSPECT CONCRETE FOR APPLICATION OF PRESTRESSING FORCES AND GROUTING OF BONDED TENDONS IN ACCORDANCE WITH ACI 318. REFERENCED STANDARDS: IBC 1705.3	**N/A**
INSPECT ERECTION OF PRECAST CONCRETE IN ACCORDANCE WITH ACI 318. REFERENCED STANDARDS: IBC 1705.3	**N/A**
VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE IN ACCORDANCE WITH ACI 318. REFERENCED STANDARDS: IBC 1705.3	**N/A**
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF MEMBER BEING FORMED IN ACCORDANCE WITH ACI 318. REFERENCED STANDARDS: IBC 1705.3	**PERIODIC**
SPECIAL INSPECTIONS FOR HIGH LOAD WOOD DIAPHRAGMS INCLUDING GRADE AND THICKNESS OF STRUCTURAL PANELS. VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANELS AND FASTENERS PER CONSTRUCTION DOCUMENTS. REFERENCED STANDARDS: IBC 1704.2, 1705.1, 2306.2	**N/A**
SPECIAL INSPECTIONS AND TESTS OF SITE AND SOIL CONDITIONS :	
VERIFY ADEQUATE BEARING CAPACITY FOR SHALLOW FOUNDATIONS AND EXCAVATIONS HAVE REACHED PROPER DEPTH AND MATERIAL. REFERENCED STANDARDS: IBC 1705.6	**N/A**
PERFORM CLASSIFICATION AND COMPACTION TESTING OF FILL MATERIALS. REFERENCED STANDARDS: IBC 1705.6	**N/A**
VERIFY CONTINUOUS USE OF PROPER MATERIALS, LIFT THICKNESSES, AND COMPACTION FOR FILL PLACEMENT. REFERENCED STANDARDS: IBC 1705.6	N/A
INSPECT SUBGRADE HAS BEEN PREPARED PRIOR TO PLACEMENT. REFERENCED STANDARDS: IBC 1705.6	**N/A**

GENERAL STRUCTURAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND TO CROSS-CHECK DETAILS AND DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH THE RELATED REQUIREMENTS INCLUDED WITHIN THE ENTIRE CONTRACT DOCUMENTS. FLOOR AND WALL OPENINGS, SLEEVES AND OTHER, REQUIREMENTS MUST BE COORDINATED BEFORE THE CONTRACTOR PROCEEDS WITH CONSTRUCTION.
2. ALL ENGINEERING DESIGN, CONSTRUCTION, AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT EDITION OF THE INTERNATIONAL BUILDING CODE..
3. ALL STRUCTURAL WORK MUST BE TEMPORARILY BRACED AND SUPPORTED UNTIL THE STRUCTURE IS SUFFICIENTLY COMPLETED AND CAN SAFELY CARRY THE DESIGN AND CONSTRUCTION LOADS.
4. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE VA COR BEFORE PROCEEDING WITH ANY WORK THAT IS INVOLVED IN THE CONFLICT.

CONCRETE:

1. ALL CONCRETE WORK TO BE PERFORMED IN CONFORMANCE WITH THE MOST RECENT EDITION OF ACI 301 & ACI 318 CODE REQUIREMENTS AND DETAILING STANDARDS.
2. ALL CONCRETE SHALL DEVELOP THE COMPRESSIVE STRENGTHS AT 28 DAYS (F`c) AS LISTED IN THE CONCRETE SPECIFICATIONS.
3. ALL REINFORCING BARS, DOWELS, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING OF THE CONCRETE.
4. DETAILING BENDING AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE ACI CODE.
5. THE SURFACE OF ALL CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE ALL DUST, CHIPS, OR OTHER FOREIGN MATTER PRIOR TO THE PLACEMENT OF ADJACENT CONCRETE.
6. ALL EMBEDDED ITEMS SHALL BE PLACED IN THE FORMWORK PRIOR TO PLACING CONCRETE. DRILLING AND GROUTING IS ACCEPTABLE SUBJECT TO ENGINEER APPROVAL.

LAP CHART
4000 PSI CONCRETE

BAR SIZE	VERT. BARS	HORZ. BARS
#3	16"	16"
#4	16"	20"
#5	20"	25"
#6	24"	30"
#7	33"	43"

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE HIGH STRENGTH DEFORMED BARS, GRADE 60 ASTM A615, WITH 60,000 PSI MINIMUM YIELD STRENGTH, UNLESS NOTED OTHERWISE.
2. REINFORCEMENT PROTECTION: (U.N.O.)
   A. CONCRETE POURED AGAINST EARTH = 3"
      TO WEATHER, EARTH OR LIQUID
   B. CONCRETE POURED IN FORMS BUT EXPOSED = 2"
   C. SLABS AND WALLS NOT EXPOSED TO WEATHER OR EARTH = 1 1/2"
3. WELDING OF REINFORCING BARS IS NOT PERMITTED, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL:

1. STRUCTURAL AND MISC. STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF AISC STEEL CONSTRUCTION MANUAL AND CODE OF STANDARD PRACTICE. STEEL JOISTS SHALL CONFORM TO THE MOST RECENT EDITION OF STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. METAL DECK SHALL CONFORM TO THE MOST RECENT EDITION OF THE STANDARD SPECIFICATION OF THE STEEL DECK INSTITUTE.
2. USE BOLTED CONNECTIONS AS SPECIFIED IN FRAMING DETAIL FOR SIZE AND NUMBER OF BOLTS AND WELDS FOR ALL STRUCTURAL STEEL CONNECTIONS. ALL BOLTED CONNECTIONS SHALL BE STANDARD ROUND HOLES (UNLESS NOTED OTHERWISE).
3. IF DETAIL IS NOT PROVIDED:
   ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE "N", 3/4" DIA. BOLTS (BRG. TYPE) OR WELDED EQUIVALENT, UNLESS OTHERWISE NOTED. SELECT CONNECTIONS TO SUPPORT ONE HALF THE TOTAL LOAD CAPACITY FOR EACH GIVEN BEAM AND SPAN. THE EFFECT OF CONCENTRATED LOADS SHALL ALSO BE CONSIDERED.
4. CONNECTIONS MADE WITH HIGH STRENGTH STEEL BOLTS SHALL CONFORM IN ALL RESPECTS TO THE CURRENT SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS AS ENDORSED BY THE AISC. NO PAINT ON FAYING SURFACES.
5. WELDING SHALL BE DONE IN ACCORDANCE WITH THE "AMERICAN WELDING SOCIETY" (AWS) D1.1, USING E70 ELECTRODES. WELDING SHALL BE PERFORMED BY AN APPROVED CERTIFIED WELDER.
6. NO CHANGES SHALL BE MADE IN THE STEEL STRUCTURE NOR ANY MATERIAL CUT IN THE FIELD (UNLESS NOTED AS "FIELD CUT OR TRIM" ON DRAWINGS), WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.
7. NO CUTTING, BURNING, OR HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS WITHOUT THE PRIOR CONSENT OF THE ENGINEER. BOLT HOLES SHALL CONFORM WITH THE GOVERNING AISC SPECIFICATION, AND SHALL BE STANDARD HOLES UNLESS NOTED OTHERWISE.
8. THE VA COR SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE DESIGN AND ACTUAL CONDITIONS NOTED IN THE FIELD.
9. CONTRACTOR SHALL PROVIDE NECESSARY LABOR, MATERIAL, AND EQUIPMENT TO ERECT ALL MISCELLANEOUS IRON AND STEEL AS DETAILED ON THESE DRAWINGS.
10. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
11. UNLESS OTHERWISE INDICATED, ROOF OPENINGS MADE IN EXISTING ROOF STRUCTURE SHALL BE SUPPORTED ON ALL EDGES BY L4x4x1/4" FOR SPANS OF 5 '-0" OR LESS; AND BY C8X11.5 FOR SPANS BETWEEN 5 '-0" AND 10'-0". SPANS EXCEEDING 10'-0" SHALL REQUIRE SECTIONS APPROVED BY THE ENGINEER. CONNECTIONS SHALL BE WELDED IN ACCORDANCE WITH AWS D1.1 AND AISC, OR MINIMUM 2-BOLT CONNECTIONS ACCORDING TO AISC.

STRUCTURAL DESIGN INFORMATION:
DESIGN DATA BASED ON ASCE 7-16

RISK CATEGORY: IV

1. SNOW LOAD:
   - SNOW EXPOSURE FACTOR (Ce) 1.0
   - THERMAL FACTOR (Ct) 1.0
   - SNOW IMPORTANCE FACTOR (Is) 1.00
   - GROUND SNOW LOAD (Pg) 20 PSF
   - SLOPED ROOF FACTOR (Cs) 1.0
2. EXISTING FLOOR LIVE LOAD:
   - INTERSTITIAL FLOORS 25 PSF
   - MECHANICAL ROOM FLOORS 150 PSF
   - MAIN FLOORS 115 OR 75 PSF
4. WIND LOADS:
   - BASIC WIND SPEED 120 MPH
   - WIND IMPORTANCE FACTOR (Iw) 1.00
   - WIND EXPOSURE CATEGORY C
5. SEISMIC LOADS:
   - SEISMIC IMPORTANCE FACTOR (Ie) 1.50
   - SITE CLASS D
   - SPECTRAL RESPONSE COEFFICIENTS:
     Ss = 0.102g Sds = 0.109
     S1 = 0.046g Sd1 = 0.073
   - SEISMIC DESIGN CATEGORY C

Revisions:	Date:
100% BID DOCUMENTS	10-JAN-2025
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Drawing Title: GENERAL NOTES AND LEGENDS
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: ALM
Drawn: EJW
Project Number: 553-21-100
Building Number:
Drawing Number: S-001

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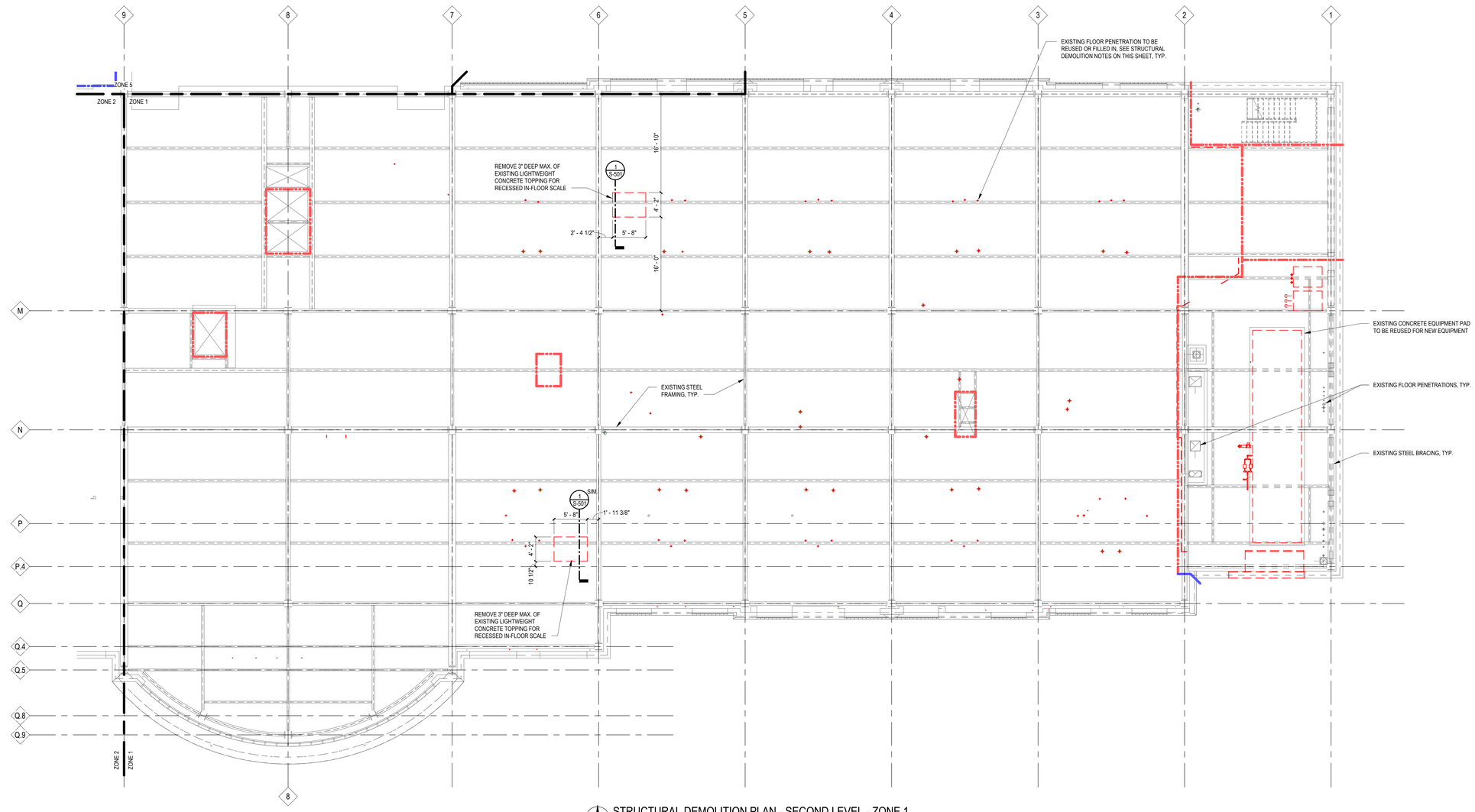
STRUCTURAL LEGEND

- EXISTING STEEL COLUMN
- EXISTING STEEL BEAM
- EXISTING FLOOR OPENING
- EXISTING CONCRETE TOPPING TO BE REMOVED

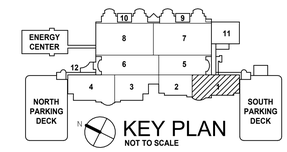
NOT ALL SYMBOLS SHOWN ON THE DRAWINGS ARE INDICATED IN THIS LEGEND. REFER TO OTHER DISCIPLINES FOR SYMBOL LEGENDS NOT INDICATED HERE.

STRUCTURAL DEMOLITION NOTES

1. DRAWINGS INDICATE REMOVALS FROM OTHER DISCIPLINES TO INDICATE SLAB CORES AND FILL-INS AS A RESULT OF THEIR WORK. COORDINATE WORK ON THIS SHEET WITH OTHER DISCIPLINES.
2. PROTECT EXISTING CONCRETE WALLS AND SLABS TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
3. COORDINATE EXTENTS OF DEMOLITION WITH ALL DISCIPLINES.
4. RE-USE EXISTING OPENINGS IN FLOOR SLAB IF FEASIBLE FOR NEW WORK SCOPE. COORDINATE WITH EACH RESPECTIVE TRADE.
5. ALL EXISTING FLOOR OPENINGS FROM DEMOLITION WORK, NOT ABLE TO BE REUSED FOR NEW SCOPE OF WORK, TO BE INFILLED. COORDINATE WITH RESPECTIVE TRADES.
   A. LESS THAN 6" DIA. FILL WITH NON-SHRINK GROUT.
   B. 6" TO 15" DIA. FILL PER DETAIL ON S-501.



STRUCTURAL DEMOLITION PLAN - SECOND LEVEL - ZONE 1
1/8" = 1'-0"



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Drawing Title: STRUCT DEMO PLAN - SECOND LEVEL - ZONE 1
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Phase: 100% BID DOCUMENTS
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Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: ALM
Drawn: EJW
Project Number: 553-21-100
Building Number:
Drawing Number: SD102.1

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STRUCTURAL LEGEND

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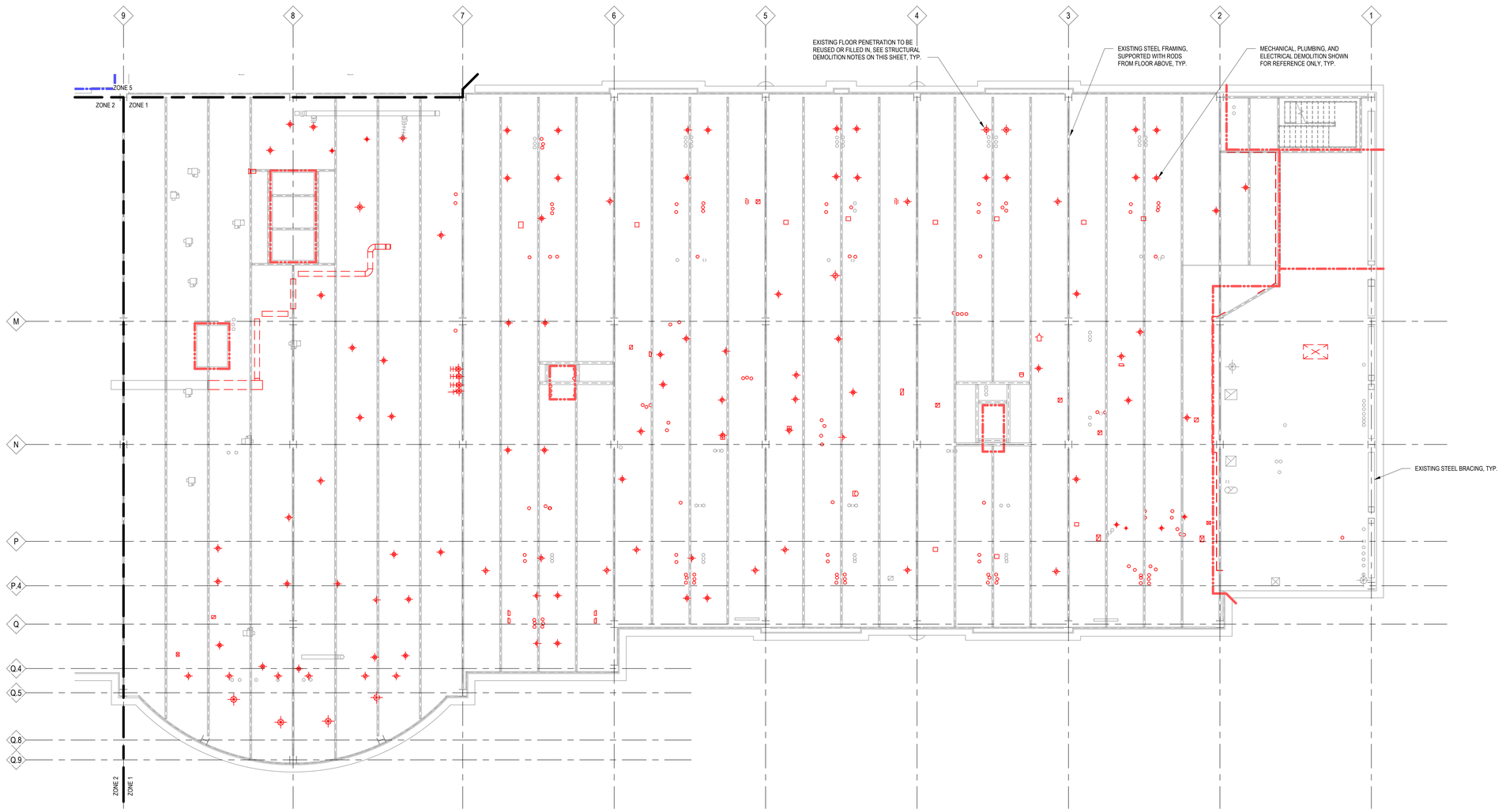
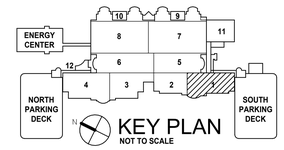


STRUCTURAL DEMOLITION PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
1/8" = 1'-0"



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Drawing Title: STRUCT DEMO PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
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Building Number:
Drawing Number: SD102.1I

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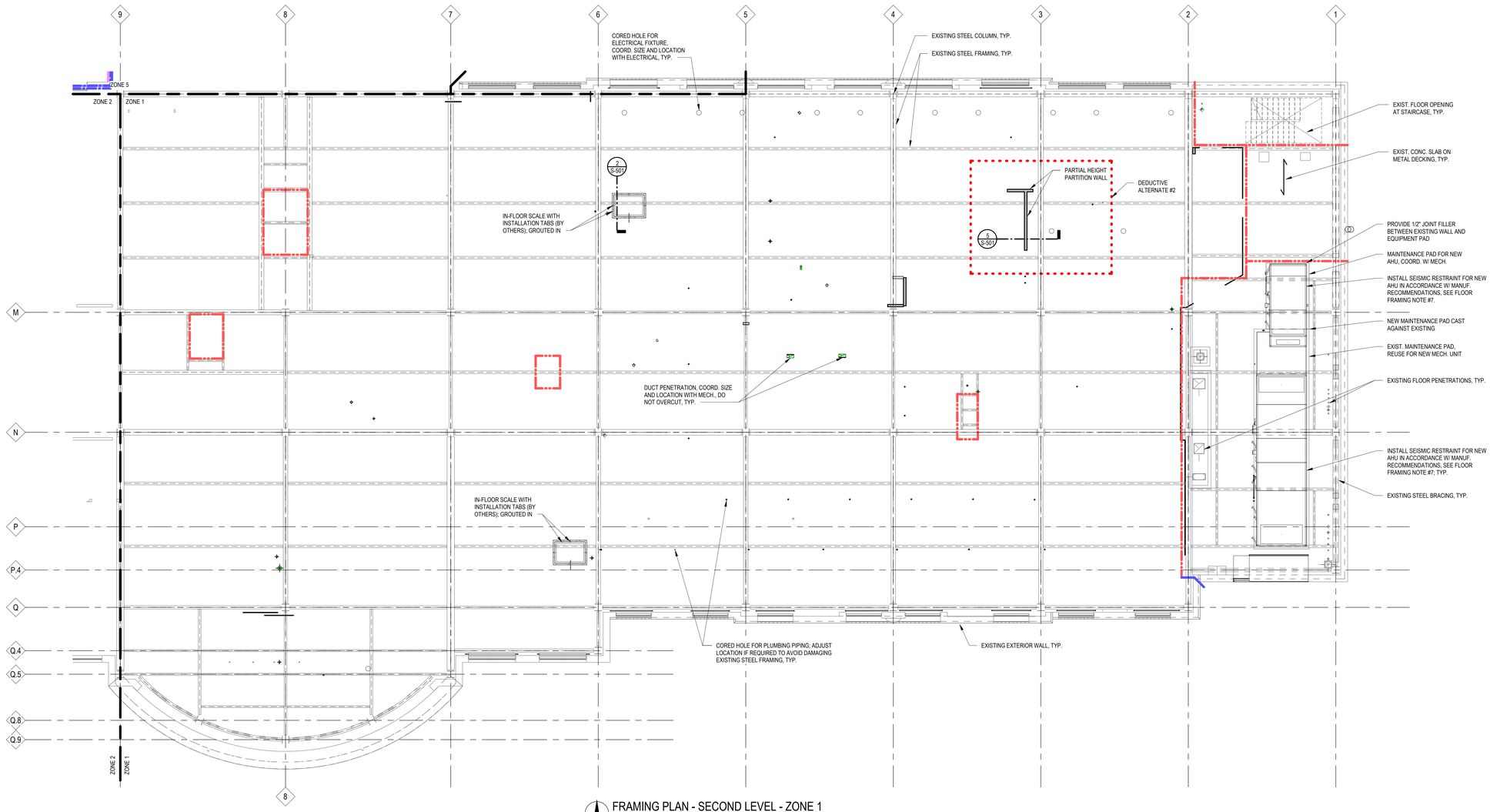

FRAMING PLAN - SECOND LEVEL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - VERIFY IN FIELD WALLS MEET DESIGNATED REQUIREMENTS AND ADD OPENING AND PENETRATION PROTECTIVES AS REQUIRED.

FLOOR FRAMING NOTES

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4. COORDINATE NEW CORED HOLE LOCATIONS AND SIZES WITH ALL DISCIPLINES.
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6. NOT ALL EXISTING FLOOR PENETRATIONS ARE SHOWN.
7. DESIGN SEISMIC RESTRAINTS TO RESIST THE FOLLOWING FORCE:
   Fp = 0.084 Wp
8. EXISTING CONCRETE FLOOR SLAB MUST BE REINFORCED FOR NEW OPENINGS GREATER THAN 100 SQUARE INCHES IN PLAN AREA.
9. REMOVE EXISTING FIREPROOFING FOR INSTALLATION OF OPENING FRAMING. REPLACE FIREPROOFING IN KIND.

STRUCTURAL LEGEND

- EXISTING STEEL COLUMN
- EXISTING STEEL BEAM
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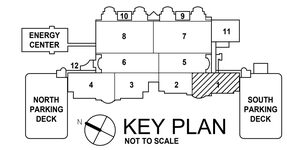

KEY PLAN
NOT TO SCALE

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VA U.S. Department of Veterans Affairs

Drawing Title: FRAMING PLAN - SECOND LEVEL - ZONE 1
Approved:
Phase: 100% BID DOCUMENTS
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Drawing Number: S-102.1

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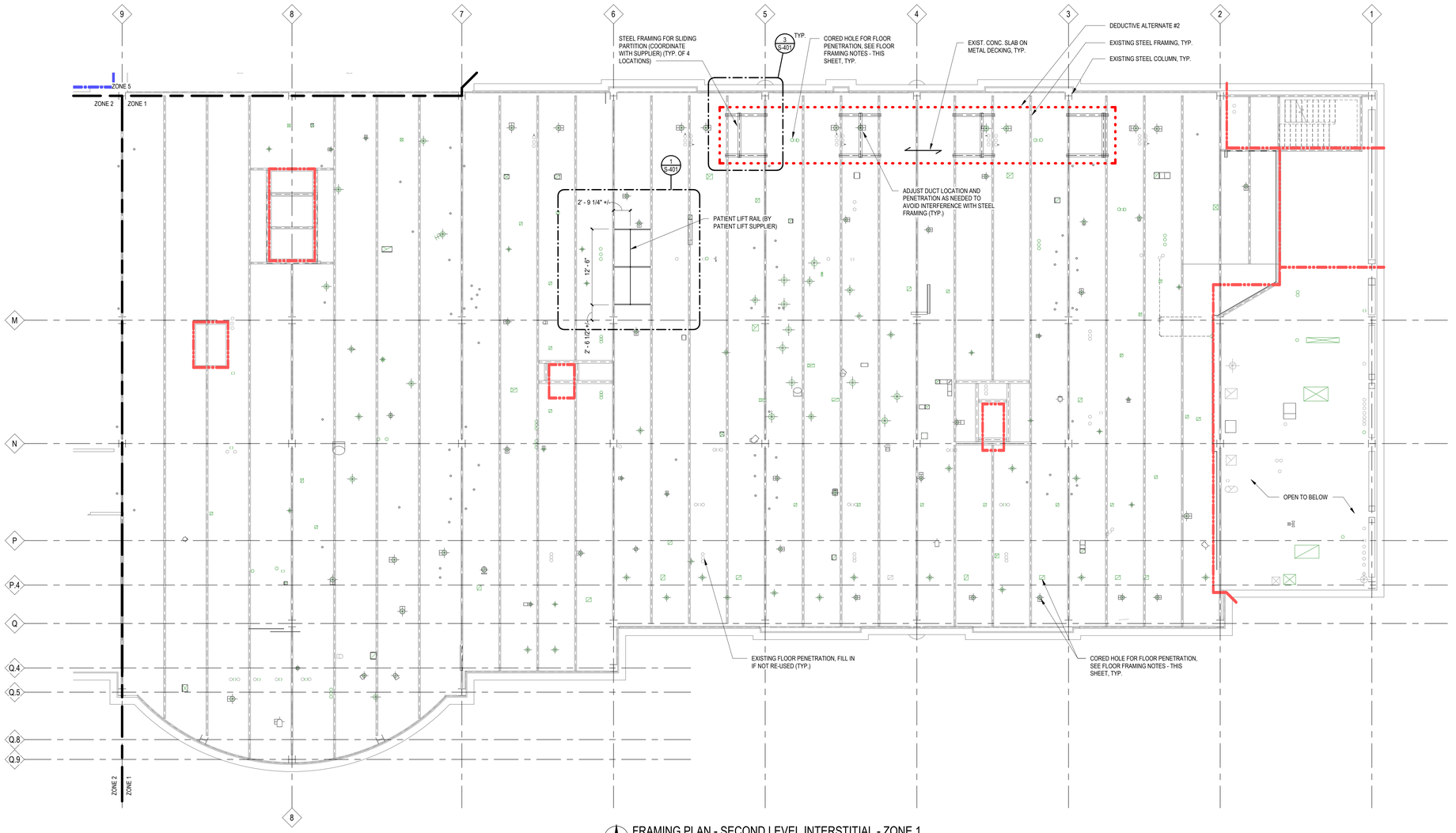

FRAMING PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - VERIFY IN FIELD WALLS MEET DESIGNATED REQUIREMENTS AND ADD OPENING AND PENETRATION PROTECTIVES AS REQUIRED.

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STRUCTURAL LEGEND

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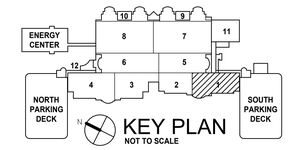

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Drawing Title: FRAMING PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
Approved:
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Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: ALM
Drawn: EJW
Project Number: 553-21-100
Building Number:
Drawing Number: S-102.1I

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STRUCTURAL LEGEND

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- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
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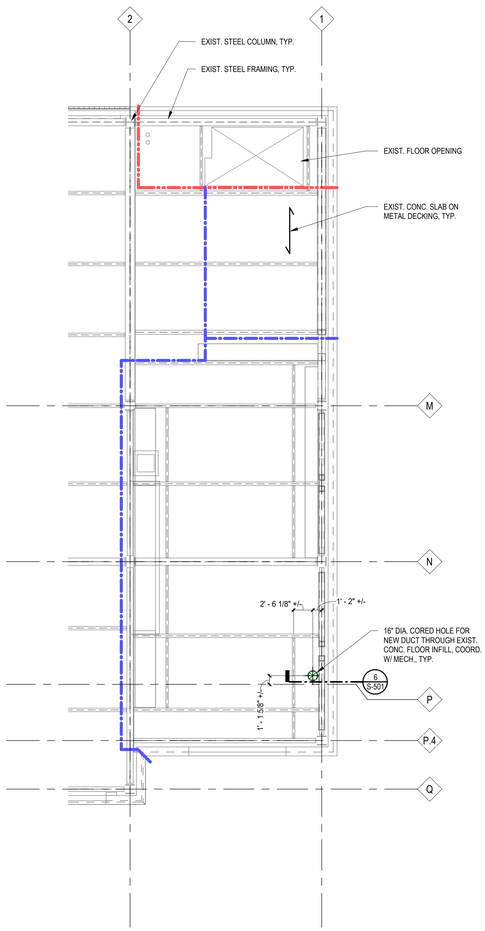
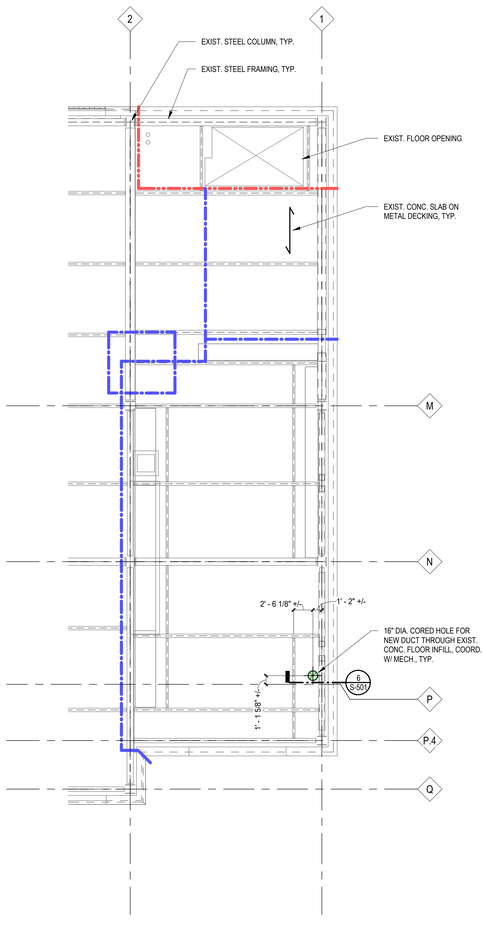
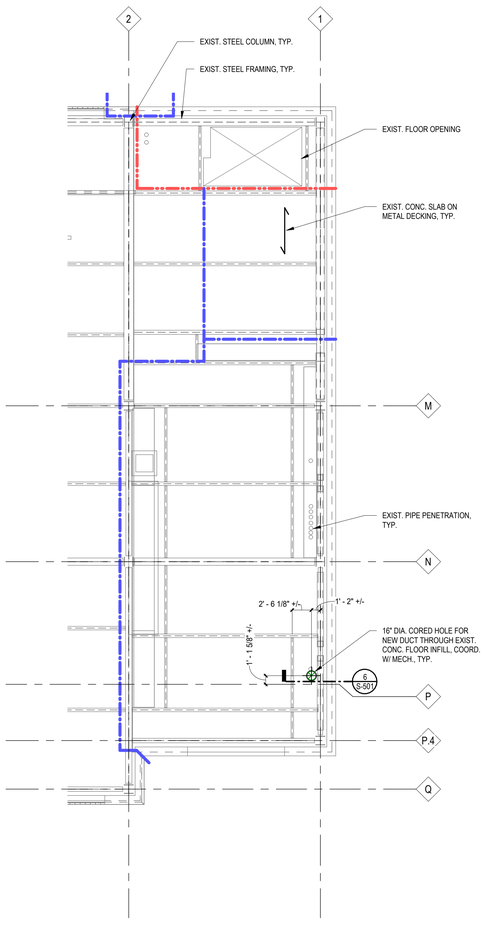


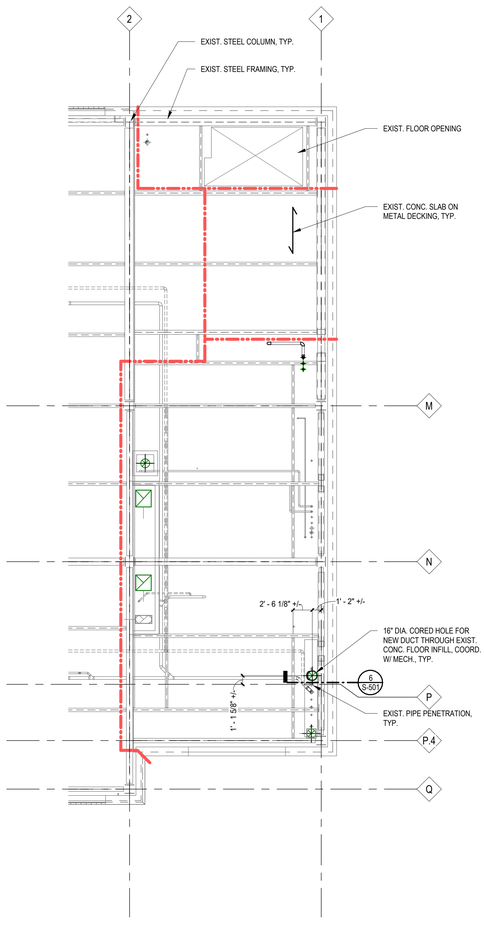
PARTIAL FRAMING PLAN - SIXTH LEVEL - ZONE 1
1/8" = 1'-0"



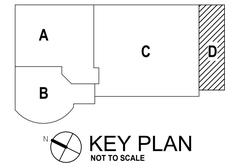
PARTIAL FRAMING PLAN - FIFTH LEVEL - ZONE 1
1/8" = 1'-0"



PARTIAL FRAMING PLAN - FOURTH LEVEL - ZONE 1
1/8" = 1'-0"



PARTIAL FRAMING PLAN - THIRD LEVEL - ZONE 1
1/8" = 1'-0"



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Drawing Title: **PARTIAL FRAMING PLANS - MECHANICAL ROOMS - ZONE 1**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **ALM**
Drawn: **EJW**
Project Number: **553-21-100**
Building Number:
Drawing Number: **S-103.1**

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STRUCTURAL LEGEND

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- EXISTING FLOOR OPENING

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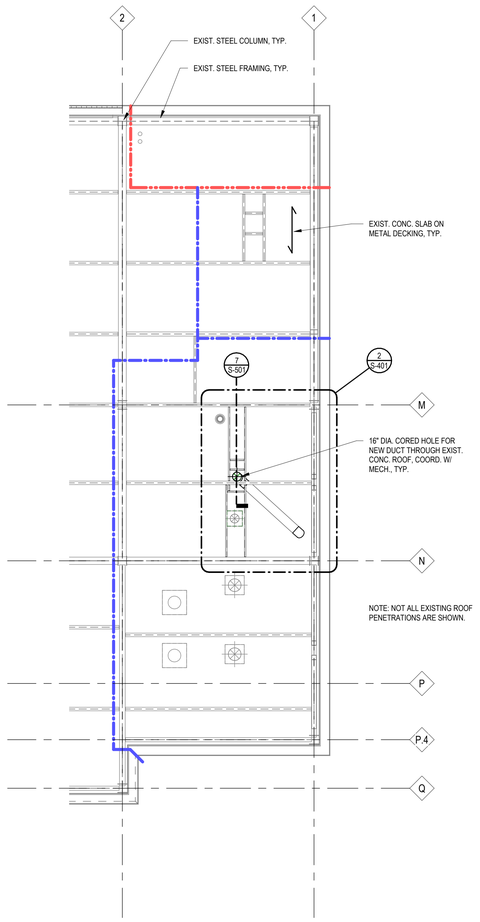
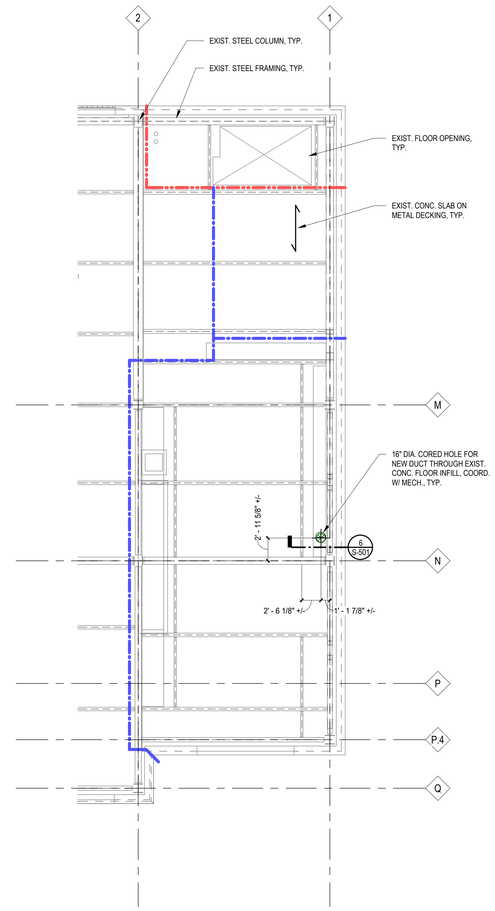
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - VERIFY IN FIELD WALLS MEET DESIGNATED REQUIREMENTS AND ADD OPENING AND PENETRATION PROTECTIVES AS REQUIRED.



PARTIAL FRAMING PLAN - ROOF - ZONE 1
1/8" = 1'-0"



PARTIAL FRAMING PLAN - SEVENTH LEVEL - ZONE 1
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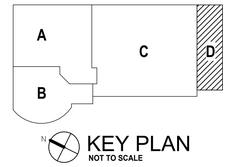

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
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Drawing Title: **PARTIAL FRAMING PLANS - MECHANICAL ROOMS - ZONE 1**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **ALM**
Drawn: **EJW**
Project Number: **553-21-100**
Building Number:
Drawing Number: **S-104.1**

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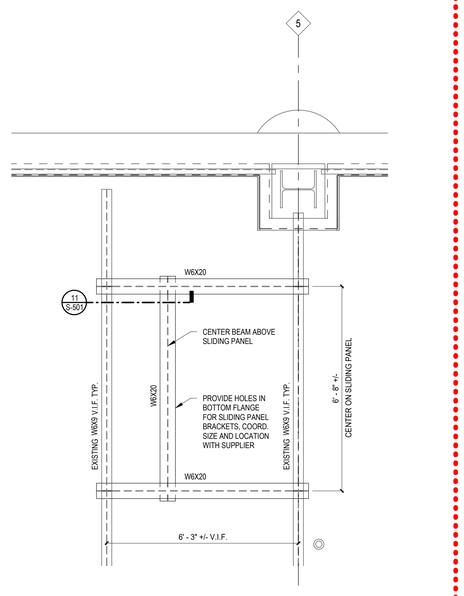
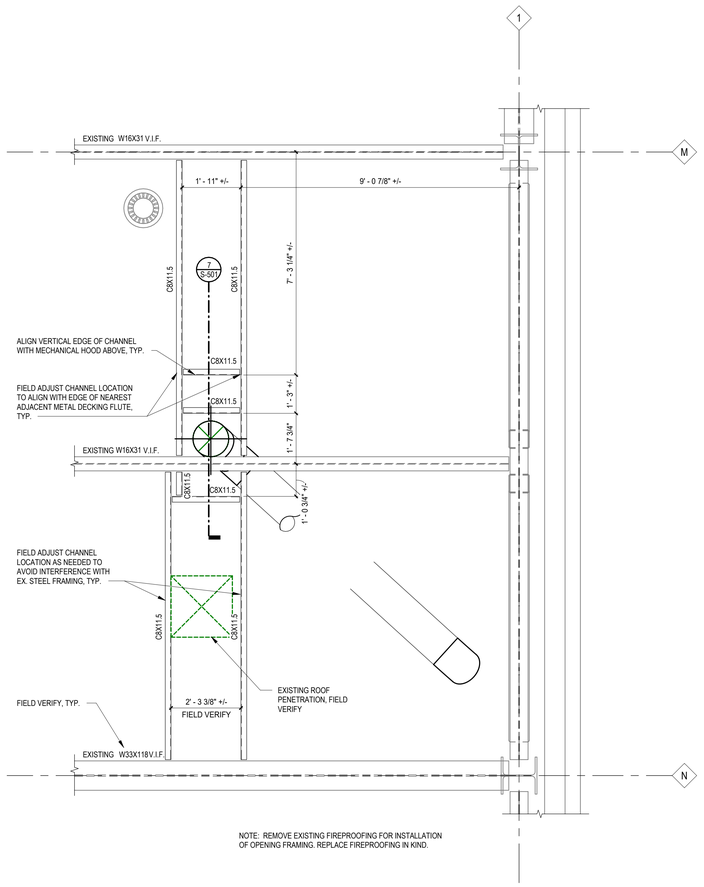
DEDUCTIVE ALTERNATE #2



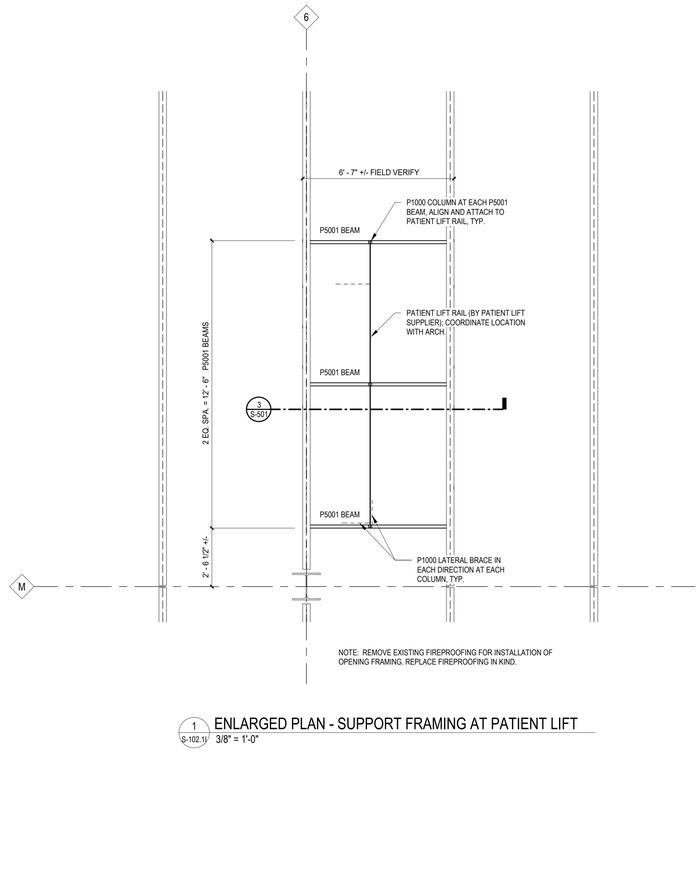
NOTE: REMOVE EXISTING FIREPROOFING FOR INSTALLATION OF OPENING FRAMING. REPLACE FIREPROOFING IN KIND.

3 S-102.1 ENLARGED PLAN - SUPPORT FRAMING FOR SLIDING PANELS
1/2" = 1'-0"



NOTE: REMOVE EXISTING FIREPROOFING FOR INSTALLATION OF OPENING FRAMING. REPLACE FIREPROOFING IN KIND.

2 S-104.1 ENLARGED PLAN - ROOF FRAMING AT PENETRATION
1/2" = 1'-0"



NOTE: REMOVE EXISTING FIREPROOFING FOR INSTALLATION OF OPENING FRAMING. REPLACE FIREPROOFING IN KIND.

1 S-102.1 ENLARGED PLAN - SUPPORT FRAMING AT PATIENT LIFT
3/8" = 1'-0"

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
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Drawing Title: ENLARGED PLANS
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: ALM
Drawn: EJW
Project Number: 553-21-100
Building Number:
Drawing Number: S-401

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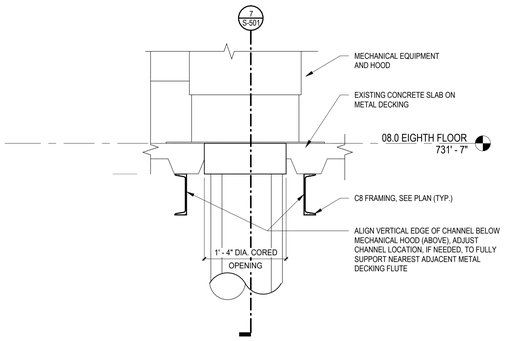
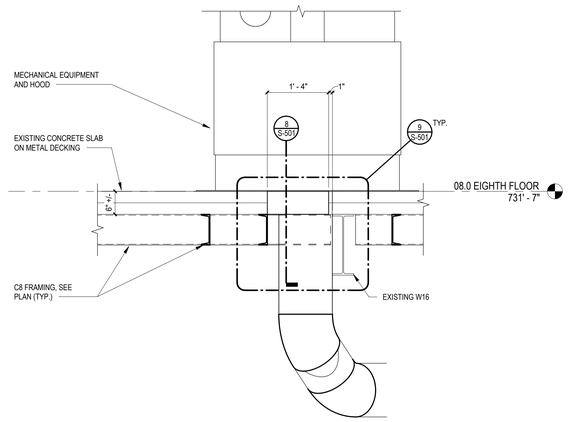
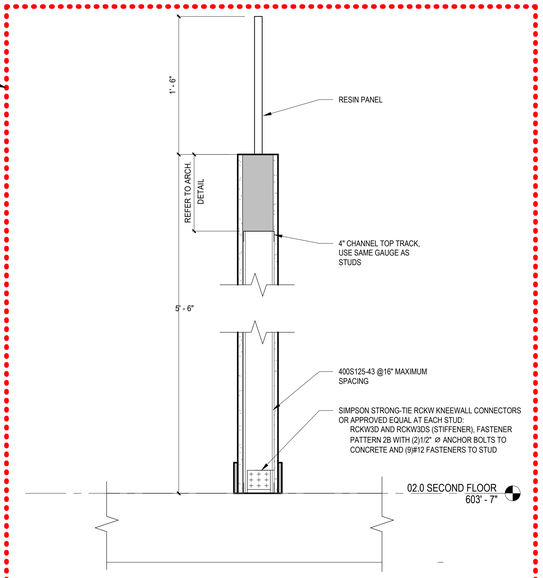


8 S-501 ROOF PENETRATION DETAIL 2
1" = 1'-0"

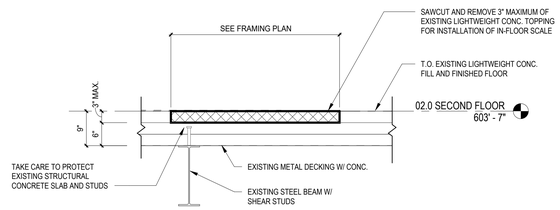


7 S-104.1 ROOF PENETRATION DETAIL 1
3/4" = 1'-0"

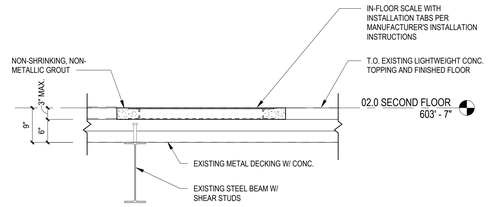
DEDUCTIVE ALTERNATE #2



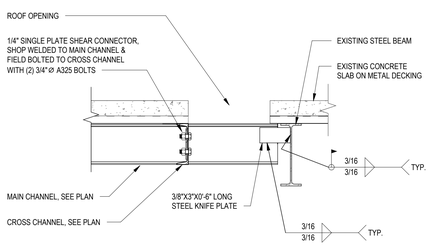
5 S-102.1 TYPICAL PARTITION WALL (LESS THAN FULL-HEIGHT)
1 1/2" = 1'-0"



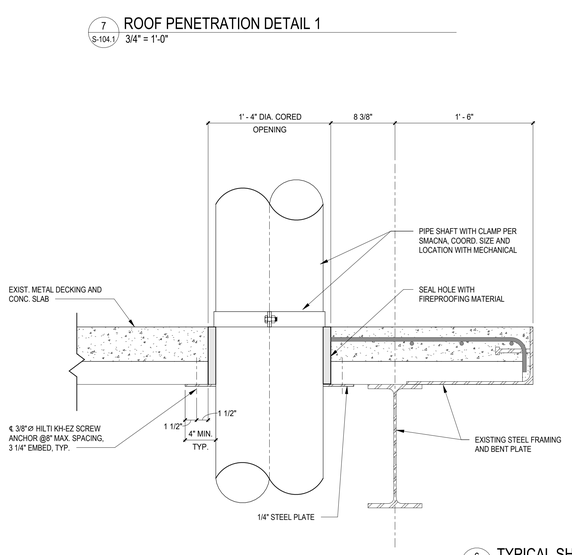
1 SD102.1 TYPICAL DEMOLITION SECTION AT RECESSED SLAB
3/4" = 1'-0"



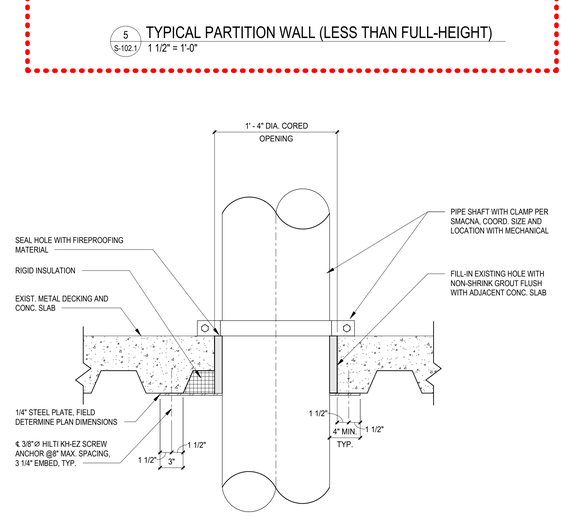
2 S-102.1 TYPICAL SECTION AT RECESSED SLAB
3/4" = 1'-0"

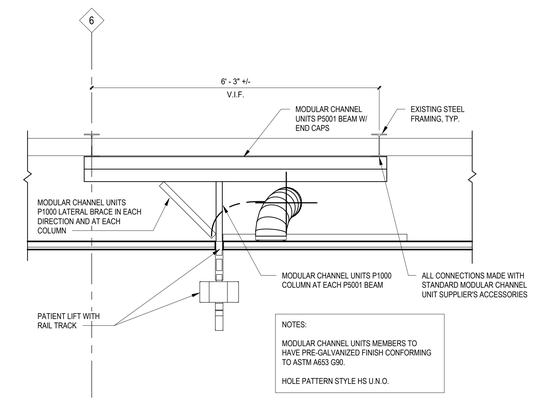


9 S-501 ROOF FRAMING CONNECTION DETAIL
1" = 1'-0"



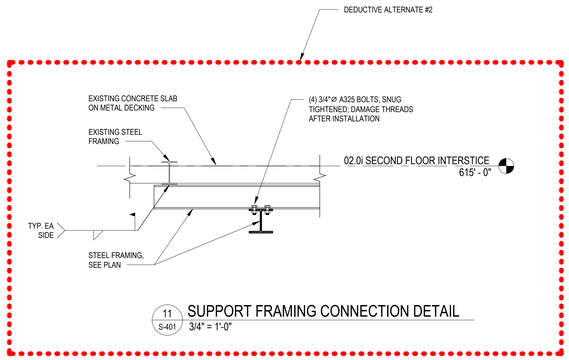
6 S-103.1 TYPICAL SHAFT PENETRATION DETAIL
1 1/2" = 1'-0"



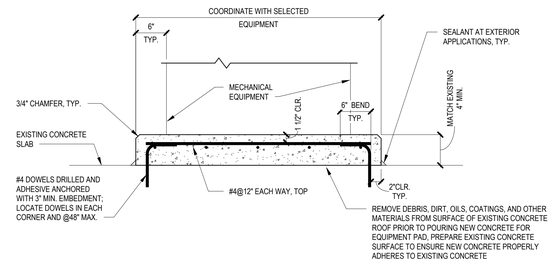


3 S-401 TYPICAL PATIENT LIFT SUPPORT SECTION
3/4" = 1'-0"

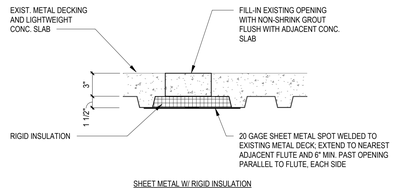
DEDUCTIVE ALTERNATE #2

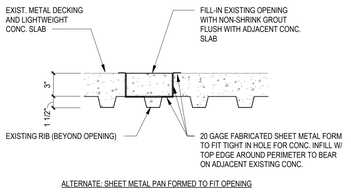


11 S-401 SUPPORT FRAMING CONNECTION DETAIL
3/4" = 1'-0"



10 EQUIPMENT PAD
1" = 1'-0"





4 TYPICAL INFILL FOR OPENINGS FROM 6" TO 15" DIA. (INTERSTITIAL FLOORS)
1 1/2" = 1'-0"

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Drawing Title: SECTIONS AND DETAILS
Phase: 100% BID DOCUMENTS
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Project Number: 553-21-100
Building Number:
Approved:
FULLY SPRINKLERED
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: ALM
Drawn: EJW
Drawing Number: S-501

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ABBREVIATIONS

ABBREV.	FULL TEXT
AB	ANCHOR BOLT
ABI	ADDITIVE BID ITEM
AC	ACOUSTICAL
ACB	ACOUSTICAL CEILING BAFFLE
ACP	ACOUSTICAL CEILING PANEL
ACS	ACOUSTICAL CEILING SPRAY
AD	AREA DRAIN
ADA	ADA
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALUM	ALUMINUM
AP	ACCESS DOORS
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AWP	ACOUSTICAL WALL PANEL
B/	BOTTOM OF
BD	BOARD
BF	BARRIER FREE
BIT	BITUMINOUS
BL	BUILDING LINE
BLDG	BUILDING
BLKHD	BULKHEAD
BOTT	BOTTOM
BP	BASE PLATE
BR	BUMP RAIL
BS	BOTH SIDES
BUR	BUILT UP ROOFING
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CG	CORNER GUARD
CH	CHANNEL
CHKDPL	CHECKERED PLATE
CJ	CONTROL JOINT
CL	CENTERLINE
CL TO CL	CENTERLINE TO CENTERLINE
CLG	CEILING
CLK	CAULKING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPRESSIBLE
COMPO	COMPOSITION
CONC	CONCRETE
CONN	CONNECT. CONNECTION
CONST	CONSTRUCTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
CPT	CARPET TILE
CS	CONCRETE SEALER
CTR	COUNTER
CTSK	COUNTERSINK
DEXS	DOUBLE EXTRA STRONG (STEEL PIPE)
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DN	DOWN
DO	DOOR OPENING
DR	DOOR
DS	DOWN SPOUT
DT	DRAIN TILE

ABBREVIATIONS

ABBREV.	FULL TEXT
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEMS
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR OR ELEVATION
ENCL	ENCLOSURE
EP	EPOXY PAINT
EPS	EXTERIOR PAINT SYSTEM
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EXPOSED STRUCTURE
EW	EACH WAY
EWC	ELECTRICAL WATER COOLER
EX	EXISTING
EXGR	EXISTING GRADE
EXP	EXPANSION
EXS	EXTRA STRONG (STEEL PIPE)
EXT	EXTERIOR
FA	FIRE ALARM
FAB	FABRIC/UPHOLSTERY
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FG	FROSTED GLASS
FHC	FIRE HOSE CABINET
FIN	FINISH
FL	FLOOR
FLL	FLOOR LINE
FLUOR	FLUORESCENT
FOC	FACE OF COLUMN
FOCONC	FACE OF CONCRETE
FRC	FIBER REINFORCED CONCRETE
FRP	FIELD REINFORCED PANEL
FRPFG	FIREPROOFING
FS	FULL SIZE
FT	FIRE TREATED
FTG	FOOTING
FUR	FURRING
FV	FIELD VERIFY
G.B.	GRAB BAR, GRADE BEAM
G.O.	GRILL OPENING
GA	GAUGE
GALV	GALVANIZED
GCT	GLAZED CERAMIC TILE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GL	GLASS
GND.	GROUND
GR.	GRADE
GRTG.	GRATING
GSCFT	GLAZED STRUCTURAL CLAY FACING TILE
GT	GROUT
GYP. BD.	GYPSUM BOARD
HC	HOLLOW CORE
HCWD	HOLLOW CORE WOOD
HDPB	HIGH DENSITY PARTICLEBOARD
HM	HOLLOW METAL
HORIZ	HORIZONTAL

ABBREVIATIONS

ABBREV.	FULL TEXT
HP	HIGH POINT
HR	HOUR
HT	HEIGHT
HWD	HARDWARE
I.D. OR ID	INSIDE DIAMETER
I.E.	INVERT ELEVATION
IG	INSULATING GLASS
IN	INCHES
INCL	INCLUDING, INCLUSIVE
INSUL	INSULATION
INT	INTERIOR
IPS	INTERIOR PAINT SYSTEM
JAN	JANITOR
JT	JOINT
kW	KILOWATTS
kWh	KILOWATT HOURS
LAD	LADDER
LAM	LAMINATED
LAV	LAVATORY
LF	LINEAR FEET
LGTH	LENGTH
LH	LEFT HAND
LKR	LOCKER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO	LOUVER OPENING
LP	LIGHTING PANEL
LPG	LIQUID PETROLEUM GAS
LPS	LOW PRESSURE STEAM
LT	LIGHT
LWT	LEAVING WATER TEMPERATURE
MA	MEDICAL AIR
MANUF	MANUFACTURER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBH	THOUSAND BTU/HR
MC	MEDICINE CABINET
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MULTI-COLOR COATING
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MEMBWP	MEMBRANE WATERPROOFING
MET	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MFS	MAXIMUM FUSE SIZE
MG	MEDICAL GAS
MH	MANHOLE
MHP	MOTOR HORSEPOWER
MIN.	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MM	MISCELLANEOUS METALS
MO	MASONRY OPENING
MOCP	MAXIMUM OVERCRRENT PROTECTION
MPC	MICHIGAN PLUMBING CODE
MR	MANUFACTURER'S RECOMMENDATIONS
MT	MARBLE TILE
MTD	MOUNTED
MUL.	MULLION
N	NORTH
N.S.	NEAR SIDE
NF	NO FINISH

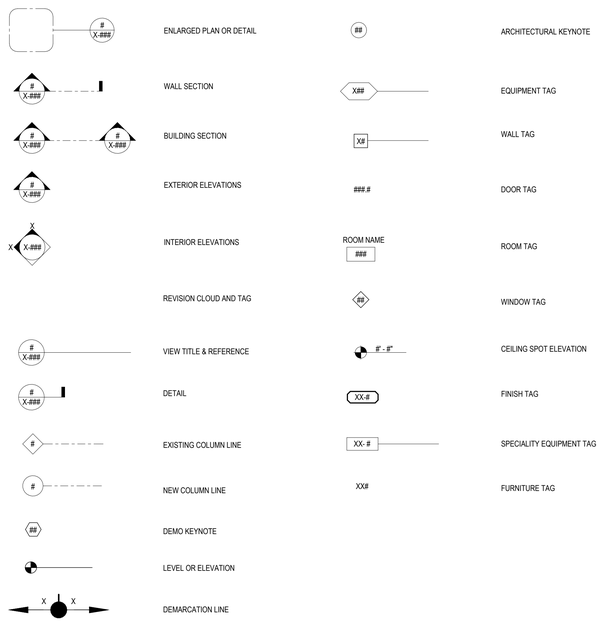
ABBREVIATIONS

ABBREV.	FULL TEXT
NIC	NOT IN CONTRACT
NO	NUMBER
NPSH	NET POSITIVE SUCTION HEAD
NSNS	NON SHRINK NON STAIN GROUT
NTS	NOT TO SCALE
NTS	NOT TO SCALE
O.C. OR OC	ON CENTER
OBSGL	OBSCURE GLASS
OD	OUTSIDE DIAMETER
OHDR	SECTIONAL OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
P	PAINT
PART	PARTITION
PB	PARTICLE BOARD
PC	PRECAST
PCS	PIECES
PERM	PERMANENT
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLY	PLYWOOD
PT	PRESSURE TREATED
PT	PORCELAIN TILE
PTB	PORCELAIN TILE BASE
QT	QUARRY TILE
QTB	QUARTZ TILE BASE
QTZ	QUARTZ
R	RISER
RA	RETURN AIR
RB	RUBBER BASE
RC	ROOF CONDUCTOR
RD	ROOF DRAIN
RD	ROUND
RECVG	RECEIVING
REF	REFRIGERATOR
REINF	REINFORCED
REQ'D	REQUIRED
RF	RESILIENT FLOORING
RH	RIGHT HAND
RL	ROOF LADDER
RM	ROOM
RO	ROUGH OPENING
RS	ROOF SUMP
RSN	RESIN
RWD	REDWOOD
RWD	RIGID WALL PROTECTION
S	SOUTH
S	SPANDREL GLASS
SA	SUPPLY AIR
SAB	SOUND ATTENUATION BLANKETS
SC	SOLID CORE
SCH	SCHEDULE
SCONC	SEALED CONCRETE
SCWD	SOLID CORE WOOD
SECT	SECTION
SER.RECPT	SERVICE RECEPTOR
SH	SHELF
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SLR	CONCRETE SEALER
SLS	SOLID SURFACE

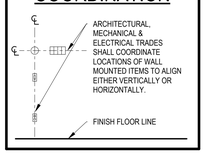
ABBREVIATIONS

ABBREV.	FULL TEXT
SLV	SHORT LEG VERTICAL
SPEC	SPECIFICATION
SQ	SQUARE
SQFT	SQUARE FOOT
SS	STAINLESS STEEL
SSK	SERVICE SINK
SSM	SOLID SURFACING MATERIAL
ST	SMOKE-TIGHT PER CODE TO RESIST THE PASSAGE OF SMOKE
STD	STANDARD
STDW	STANDARD WEIGHT (STEEL PIPE)
STL	STEEL
STN	STAIN
STOR	STORAGE
STRL	STRUCTURAL
SUPP	SUPPORT
SUSP	SUSPENDED
SYM	SUSPENSION SYMMETRICAL
T	TREAD
T&G	TONGUE AND GROOVE
T.O.C. OR T/C	TOP OF CONCRETE
T.O.F. OR T/F	TOP OF FOOTING
T.O.M. OR T/M	TOP OF MASONRY
T.O.P. OR T/P	TOP OF PAVEMENT
T.O.S. OR T/S	TOP OF STEEL
T.O.W. OR T/W	TOP OF WALL
T/	TOP OF
TB	TRUSS BEARING
TG	TEMPERED GLASS
THK	THICK
THRESH	THRESHOLD
TLT	TOILET
TP	TOILET PARTITION
TR	TRANSITION TRIM
TYP	TYPICAL
TYP	TYPICAL
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WC	WALLCOVERING
WCO	WALL CLEAN OUT
WCVR	WALLCOVERING
WD	WOOD
WP	WATERPROOFING
WP	WORKPOINT
WP	WALL PROTECTION
WS	WINDOW SHADE
WSCT	WAINSCOT
WT	WEIGHT
X-(MATERIAL)	DENOTES EXISTING MATERIAL REFRENCED

DRAWING REFERENCE SYMBOLS

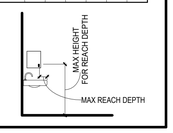


MOUNTING HEIGHT COORDINATION

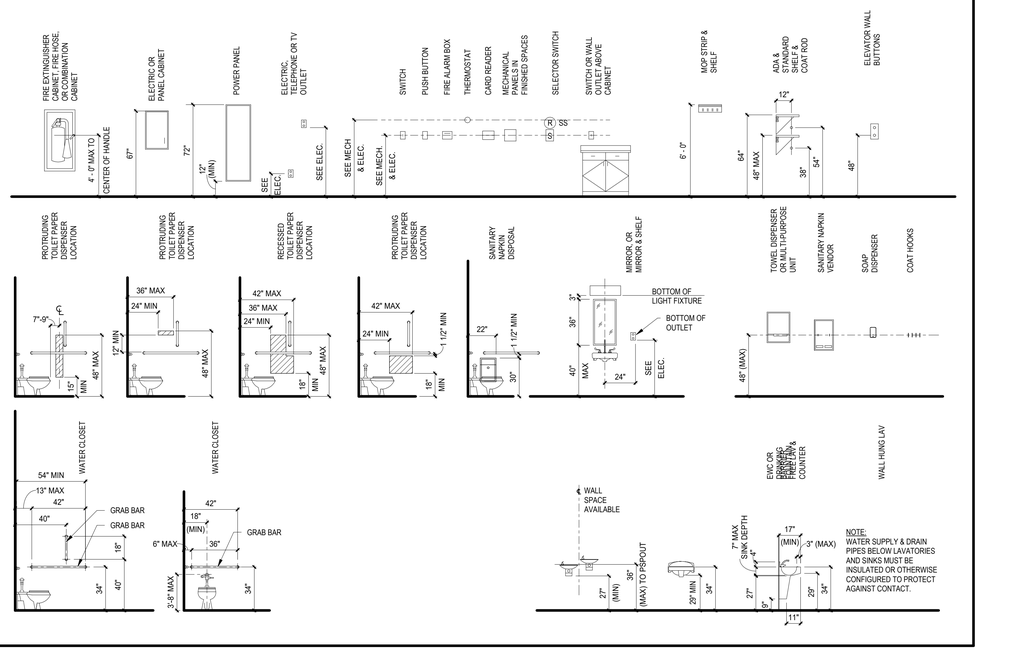


GENERAL MAXIMUM REACH DEPTH AND HEIGHT FOR HAND DRYERS / TOWEL DISPENSERS

MAX REACH DEPTH	0.5"	2"	5"	6"	9"	11"
MAX REACH HEIGHT	48"	46"	42"	40"	36"	34"



RECOMMENDED MOUNTING HEIGHTS (UNLESS OTHERWISE NOTED)



100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
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Revisions:	Date:

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WalterMechanical Services Inc.
3419 Pierson Place
Flushing, Michigan, 48433
810-230-6202

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **ARCHITECTURAL LEGENDS, SYMBOLS, AND ABBREVIATIONS**

Approved:

Phase: **100% BID DOCUMENTS**

FULLY SPRINKLERED

Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**

Location: **DETROIT, MI**

Issue Date: **10-JAN-2025**

Checked: **KJH**

Drawn: **MRB**

Project Number: **553-21-100**

Building Number:

Drawing Number: **A-001**

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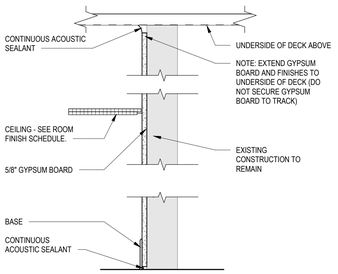
VA FORM 08 - 6231

PARTITION TYPE GENERAL NOTES

1. IF NOT SHOWN ON DRAWINGS, PROVIDE CONTROL JOINTS IN GYPSUM BOARD ASSEMBLIES AS DESCRIBED IN ASTM C 840-08 OR GA-216-2013.



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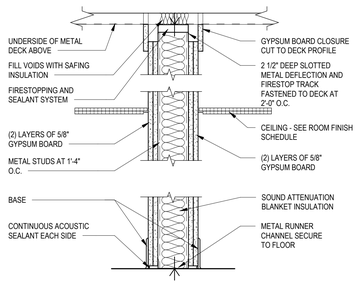
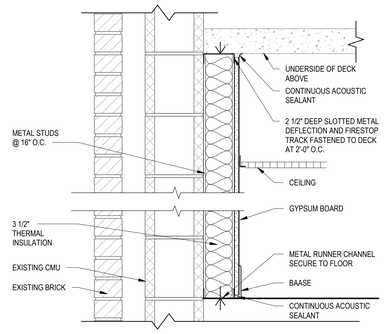
(MAINTATIN EXISTING WALL RATING)

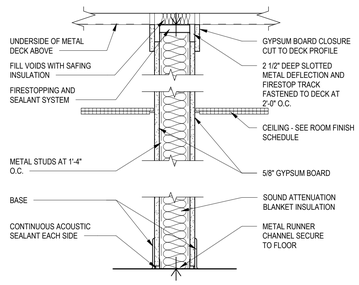


PARTITION TYPE '9A'
(2-HR FIRE RATED / 4" METAL STUDS / DESIGN UL-U419)



PARTITION TYPE '8A'
(NON-RATED/ 4" METAL STUDS WITH GYPSUM BOARD ON ONE SIDE / THERMALLY INSULATED)

PARTITION TYPE '8B'
(NON-RATED/ 2 1/2" METAL STUDS WITH GYPSUM BOARD ON ONE SIDE / THERMALLY INSULATED, PARTIAL HEIGHT, SEE DETAILS ON A-502 FOR MORE INFORMATION)



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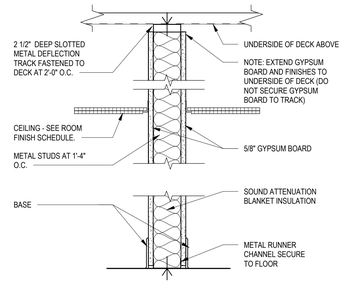
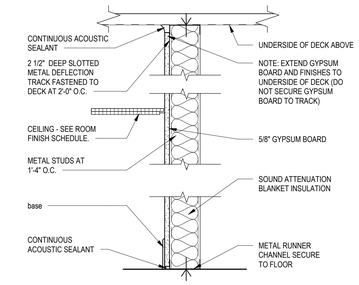


PARTITION TYPE '2A'
(NON-RATED / 4" METAL STUDS / GYPSUM BOARD ON BOTH SIDES)

PARTITION TYPE '2B'
(NON-RATED / 8" METAL STUDS / GYPSUM BOARD ON BOTH SIDES)

PARTITION TYPE '2C'
(SMOKE PARTITION / 4" METAL STUDS / GYPSUM BOARD ON BOTH SIDES)

PARTITION TYPE '2D'
(SMOKE PARTITION / 8" METAL STUDS / GYPSUM BOARD ON BOTH SIDES)



PARTITION TYPE '1A'
(NON-RATED/ 4" METAL STUDS WITH GYPSUM BOARD ON ONE SIDE / INSULATED)

PARTITION TYPE '1B'
(SMOKE PARTITION/ 4" METAL STUDS WITH GYPSUM BOARD ON ONE SIDE / INSULATED)

PARTITION TYPE '1C'
(SMOKE PARTITION/ 4" METAL STUDS WITH GYPSUM BOARD ON ONE SIDE / NONINSULATED)

Revisions:	Date:
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VA U.S. Department of Veterans Affairs

Drawing Title: **PARTITION TYPES**

Approved:

Phase: **100% BID DOCUMENTS**

FULLY SPRINKLERED

Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**

Location: **DETROIT, MI**

Issue Date: **10-JAN-2025**

Checked: **KJH**

Drawn: **MRB**

Project Number: **553-21-100**

Building Number:

Drawing Number: **A-002**

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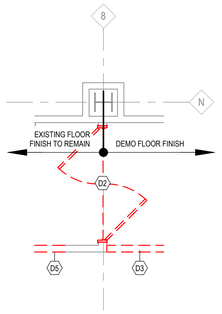
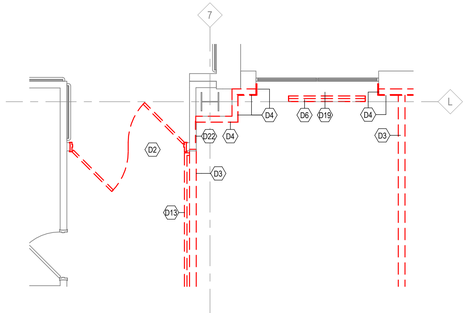
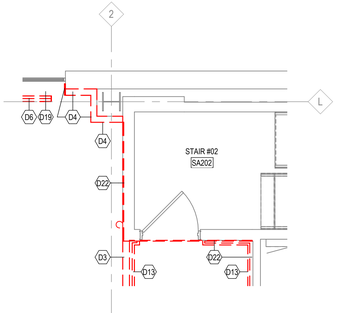


5 AD102.1 ENLARGED DEMO PLAN - DOOR
1/4" = 1'-0"



4 AD102.1 TYPICAL DEMO AT EXTERIOR WALLS
1/4" = 1'-0"



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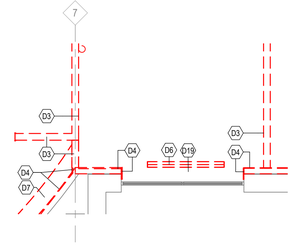

2 AD102.1 TYPICAL DEMO AT EXTERIOR WALLS
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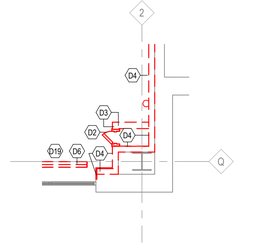


1 AD102.1 TYPICAL DEMO AT EXTERIOR WALLS
1/4" = 1'-0"

DEMO PLAN LEGEND:

- EXISTING WALL OR PARTITION TO REMAIN
- EXISTING WALL/PARTITION OR EXISTING ITEMS TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR & FRAME TO BE REMOVED
- EXISTING BUILDING COMPONENT & STRUCTURE TO REMAIN
- EXISTING ASSEMBLY TO BE REMOVED

NOTE: ALL ITEMS SHOWN RED AND DASHED ARE TO BE DEMOLISHED- U.N.O.

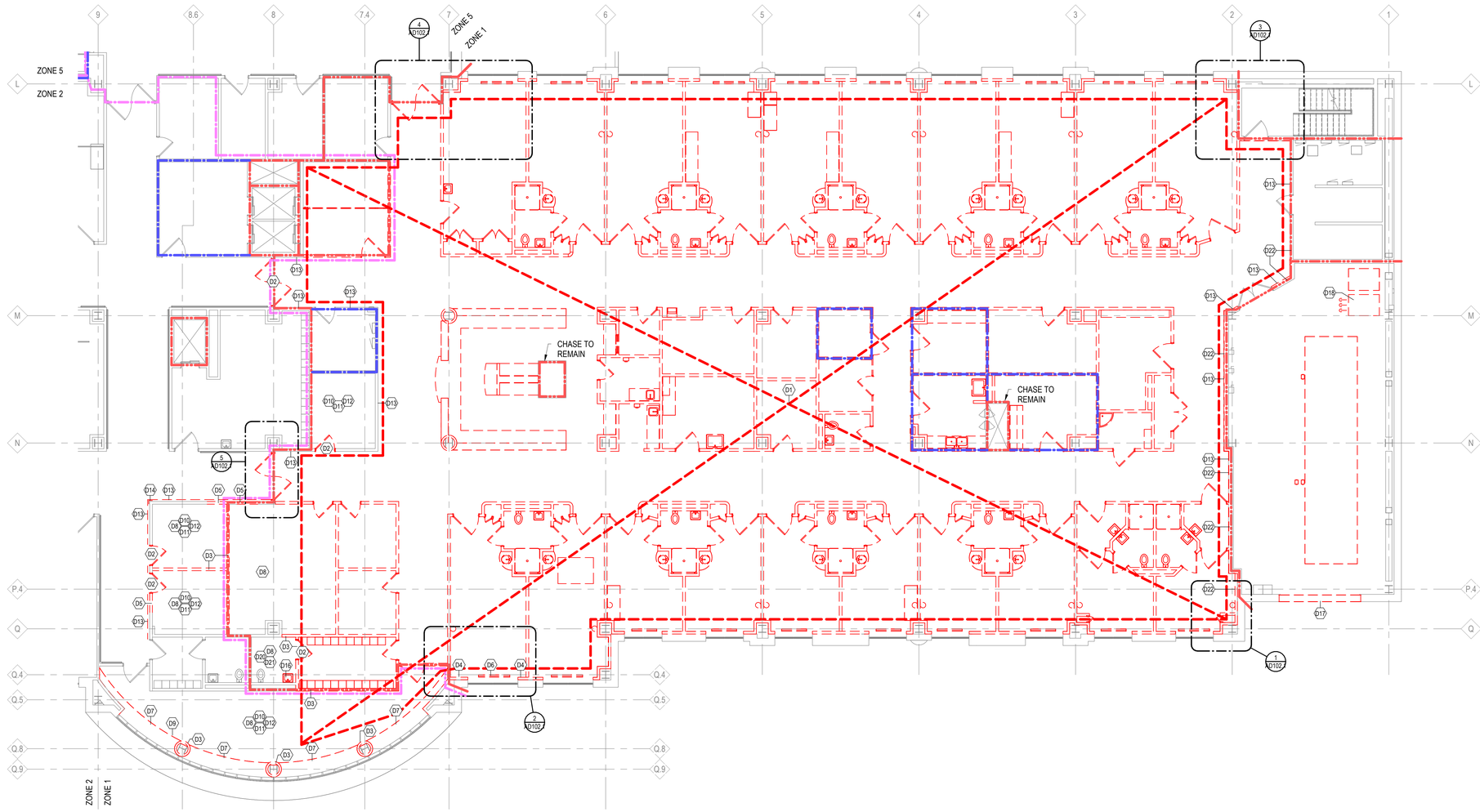
PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

GENERAL DEMOLITION NOTES:

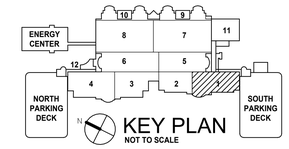
1. ALL EXISTING ITEMS TO BE RETAINED BY THE OWNER WILL BE REMOVED PRIOR TO DEMOLITION. ANY ITEMS LEFT IN THE DEMOLITION AREA BECOME THE PROPERTY OF THE DEMOLITION SUBCONTRACTOR.
2. REFER TO ALL CONTRACT DOCUMENTS FOR ADDITIONAL DEMOLITION NOTES AND INFORMATION.
3. SHORE AND BRACE ALL WORK REQUIRED TO REMAIN.
4. CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS
5. CONTRACTOR AND DEMOLITION SUBCONTRACTOR TO COORDINATE DEMOLITION WORK WITH OWNER PRIOR TO START OF WORK.
6. U.N.O. PATCH AND PREPARE FLOOR W/CONCRETE (OR FLORSTONE) FLUSH WITH ADJACENT FLOOR SURFACE. FILL ANY SLOPING OR RECESSED AREAS LEVEL TO TYPICAL FINISH FLOOR ELEVATION TO ACCOMMODATE NEW FLOOR COVERINGS.
7. FILL-IN EXISTING CHASE OPENINGS, PENETRATIONS IN THE FLOOR AND CEILING DECK. FIRE-RATING OF NEW CONSTRUCTION TO MATCH EXISTING. REFER TO DRAWINGS FOR DETAILS.



DEMOLITION PLAN - SECOND LEVEL - ZONE 1
1/8" = 1'-0"

DEMOLITION KEYNOTES

KEY VALUE	KEYNOTE TEXT
D1	REMOVE INTERIOR CONTENT IN ITS ENTIRETY UNLESS OTHERWISE NOTED, INCLUDING ALL WALLS, DOORS, WINDOWS, FINISHES, EQUIPMENT, CASEWORK, FIXTURES, AND ACCESSORIES UP TO DECK ABOVE.
D2	REMOVE DOOR ASSEMBLY INCLUDING DOOR(S), SIDELIGHTS, GROUT FILLED FRAMES, THRESHOLD, HARDWARE, ANCHORS, AND TRIM (ON BOTH SIDES OF EACH DOOR). PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
D3	REMOVE WALL BASE TRIM, ALL ATTACHED/EMBEDDED ITEMS, AND ALL OTHER ASSOCIATED WALL MATERIALS FROM FLOOR TO DECK ABOVE. PROTECT EXISTING COLUMNS AND FIREPROOFING FROM DAMAGE. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES. STEEL STRUCTURE TO REMAIN.
D4	REMOVE GYPSUM BOARD AND METAL STUD FRAMING, BASE TRIM, ALL ATTACHED / EMBEDDED ITEMS, WALL INSULATION, AND ALL OTHER ASSOCIATED WALL MATERIALS FROM FLOOR TO DECK ABOVE. EXISTING EXTERIOR WALL TO REMAIN. PROTECT EXISTING COLUMNS AND FIREPROOFING FROM DAMAGE. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES. NOTIFY THE COR AND ARCHITECT OF RECORD OF ANY DAMAGE TO THE EXISTING EXTERIOR WALL.
D5	SAW CUT WALL FOR NEW DOOR. PATCH AND REPAIR ADJACENT SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
D6	REMOVE EXISTING PROTECTOR ON FIN RADIATOR – REFER TO MECHANICAL.
D7	REMOVE BUILT IN BENCH W/ LOUVERS ALONG EXTERIOR WALL – REFER TO MECHANICAL.
D8	REMOVE CEILING INCLUDING ALL BRACKETS, ANCHORS & SUPPORTS. PATCH AND REPAIR ADJACENT SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES. PROVIDE NEW CEILING TILES FOR ANY ADJACENT TILES THAT ARE TO REMAIN, THAT ARE DAMAGED DURING DEMOLITION.
D9	REMOVE BULKHEAD INCLUDING ALL BRACKETS, ANCHORS & SUPPORTS. PATCH AND REPAIR ADJACENT SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
D10	REMOVE FINISH FLOOR MATERIALS AND ADHESIVE/MORTAR AS REQUIRED FOR PROPER INSTALLATION OF NEW FLOOR FINISH. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
D11	REMOVE WALL BASE AND ADHESIVE OR MORTAR AS REQUIRED FOR PROPER INSTALLATION OF NEW BASE MATERIAL. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
D12	REMOVE WALL COVERING, IF ANY, AND PREPARE WALLS FOR TO RECEIVE NEW FINISHES.
D13	REMOVE AND DISCARD ALL EXISTING HANDRAIL & BUMPER RAILS. PATCH AND REPAIR AREA OF REMOVAL AS REQ'D. CONTRACTOR TO VERIFY QUANTITIES AND LENGTHS IN FIELD.
D14	REMOVE CORNER GUARD. PATCH AND REPAIR AREA OF REMOVAL AS REQ'D. CONTRACTOR TO VERIFY QUANTITIES AND LENGTHS IN FIELD.
D16	REMOVE PLUMBING FIXTURES AND ANY ASSOCIATED PIPING AND ANCHORS AS NECESSARY FOR INSTALLATION OF NEW FIXTURES AND/OR FINISHES. COORDINATE WITH PLUMBING DRAWINGS. PATCH AND REPAIR ADJACENT SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
D17	FOR REMOVAL OF EXISTING AIR HANDLING UNITS: REMOVE AND SALVAGE LOUVER AND METAL STUD(S)FOR REINSTALLATION. REMOVE AND DISCARD BIRD SCREEN AND FOIL BACKED THERMAL INSULATION. PATCH AND REPAIR ADJACENT SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
D18	REMOVE AND SALVAGE FOR REINSTALLATION PNEUMATIC TUBE PUMP STATION. MODIFY TRANSPORT TUBES AS REQUIRED FOR NEW WORK.
D19	REMOVE WINDOW SILL. PATCH AND REPAIR ADJACENT WALL SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
D20	REMOVE TILED FLOOR/ WALL FINISH AND MORTAR AS REQUIRED FOR PROPER INSTALLATION OF NEW BASE MATERIAL. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
D21	REMOVE TOILET ACCESSORIES. PATCH AND REPAIR ADJACENT SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
D22	REMOVE GYPSUM BOARD, BASE TRIM, ALL ATTACHED/EMBEDDED ITEMS, AND ALL OTHER ASSOCIATED WALL MATERIALS FROM FLOOR TO DECK ABOVE. EXISTING FRAMING TO REMAIN. PROTECT EXISTING COLUMNS AND FIREPROOFING FROM DAMAGE. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES. STEEL STRUCTURE TO REMAIN.



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Drawing Title: DEMOLITION PLAN - SECOND LEVEL - ZONE 1
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
Building Number
Drawing Number: AD102.1

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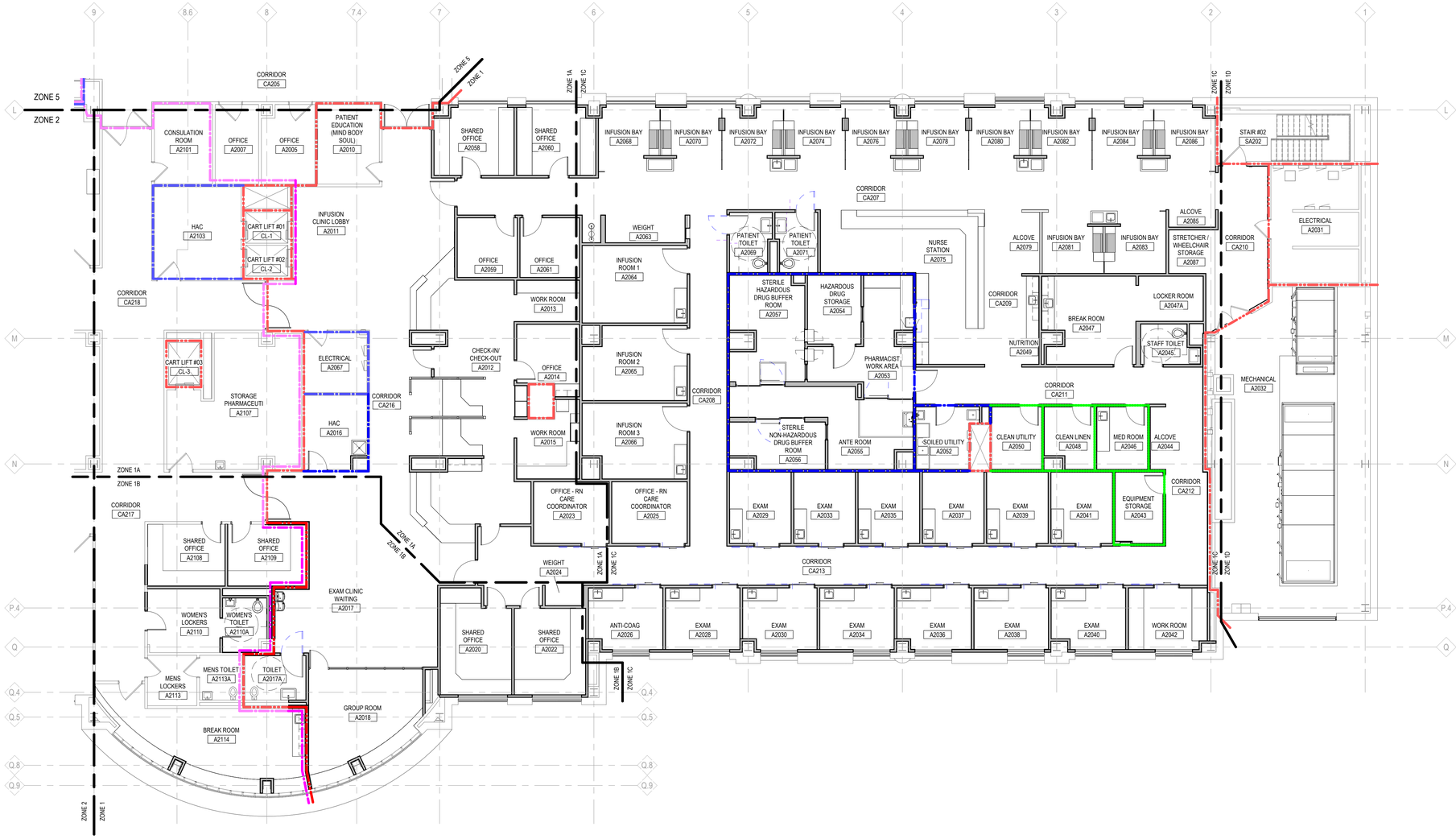


FLOOR PLAN - SECOND LEVEL - ZONE 1
1/8" = 1'-0"

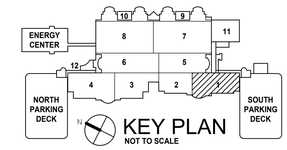
PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

GENERAL NOTES:

1. SUB-CONTRACTORS ARE TO COORDINATE WORK WITH ALL OTHER TRADES.
2. CONFLICTS BETWEEN NOTES, DETAILS, SPECIFICATIONS, ETC., SHALL BE VERIFIED WITH THE VA COR OR THE MOST STRINGENT PROVISIONS SHALL GOVERN.
3. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS. ANY UNCLEAR CONDITIONS SHALL BE VERIFIED WITH VA COR PRIOR TO CONSTRUCTION OF THAT AREA.
4. DRAWINGS ARE NOT TO BE SCALED. ANY UNCLEAR DIMENSIONS OR DIMENSIONAL DISCREPANCIES SHALL BE VERIFIED WITH VA COR.
5. ALL EXISTING CONDITIONS AND ALL RELATED DIMENSIONS INDICATED IN THE CONTRACT DOCUMENTS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION, ERECTION, AND/OR CONSTRUCTION. ANY CONDITIONS THAT DIFFER FROM THAT INDICATED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE VA COR FOR REVIEW PRIOR TO FABRICATION, ERECTION, AND/OR CONSTRUCTION.
6. GENERAL CONTRACTOR (GC) TO REVIEW ENTIRE SET OF CONSTRUCTION DOCUMENTS AND SHALL COORDINATE WORK BETWEEN ALL TRADES. IF CONFLICTS ARISE DUE TO COORDINATION OF TRADES, CM / GC IS TO VERIFY CONFLICT WITH VA COR PRIOR TO CONSTRUCTION / INSTALLATION OF CONFLICTING ITEMS.
7. PATCH ALL EXPOSED INTERIOR AND EXTERIOR WALLS WHERE ATTACHED OR IMBEDDED ITEMS WERE REMOVED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATIONS OF THE FLOORS, WALLS, AND CEILINGS FOR NEW FINISHES.
9. MAINTAIN FIRE RATING AT ALL ASSEMBLIES WHERE OPENINGS PENETRATIONS, EMBEDMENT, RECESSED EQUIPMENT, ACCESSORIES, ETC. DISRUPT THE CONTINUITY OF THE RATING
10. REMOVE ADHESIVE/OR MORTAR LEFT FROM THE REMOVAL OF EXISTING FLOOR COVERING AND PREP FLOOR W/CONCRETE (OR FLORSTONE) AS NECESSARY TO ACCOMMODATE NEW FLOOR COVERINGS.
11. ALL DIMENSIONS ARE FROM FACE OF FINISHED GYPSUM BOARD, C.M.U., OR CONCRETE , U.N.O.
12. PROVIDE ISOLATION MATERIAL BETWEEN DISSIMILAR MATERIALS THAT ARE IN CONTACT WITH ONE ANOTHER
13. PATCH & REPAIR ALL MAJOR & MINOR BLEMISHES AS REQ'D. DUE TO DEMOLITION WORK. MATCH ADJACENT MATERIAL & COLOR.
14. PROVIDE SOLID, CONTINUOUS, NON COMBUSTIBLE BLOCKING AT LOCATIONS WHERE MILLWORK, PLUMBING FIXTURES, EQUIP., ETC. ATTACH TO WALL OR CEILING.



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Project Number: 553-21-100
Building Number:
Drawing Number: A-102.1

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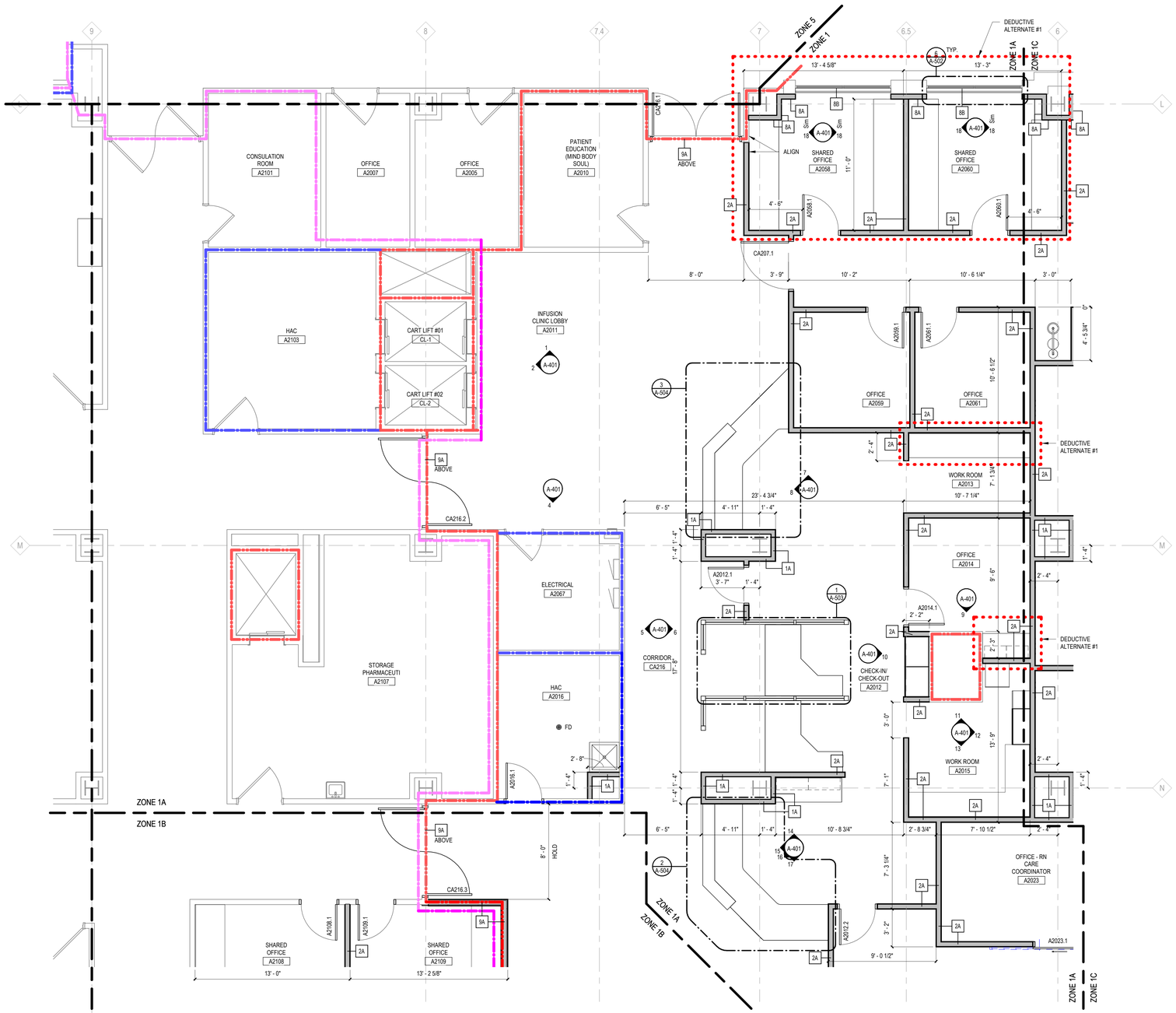

FLOOR PLAN - SECOND LEVEL - ZONE 1A
1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

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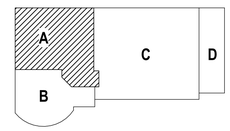

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810-230-6202

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

Drawing Title: FLOOR PLAN - SECOND LEVEL - ZONE 1A
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-102.1A

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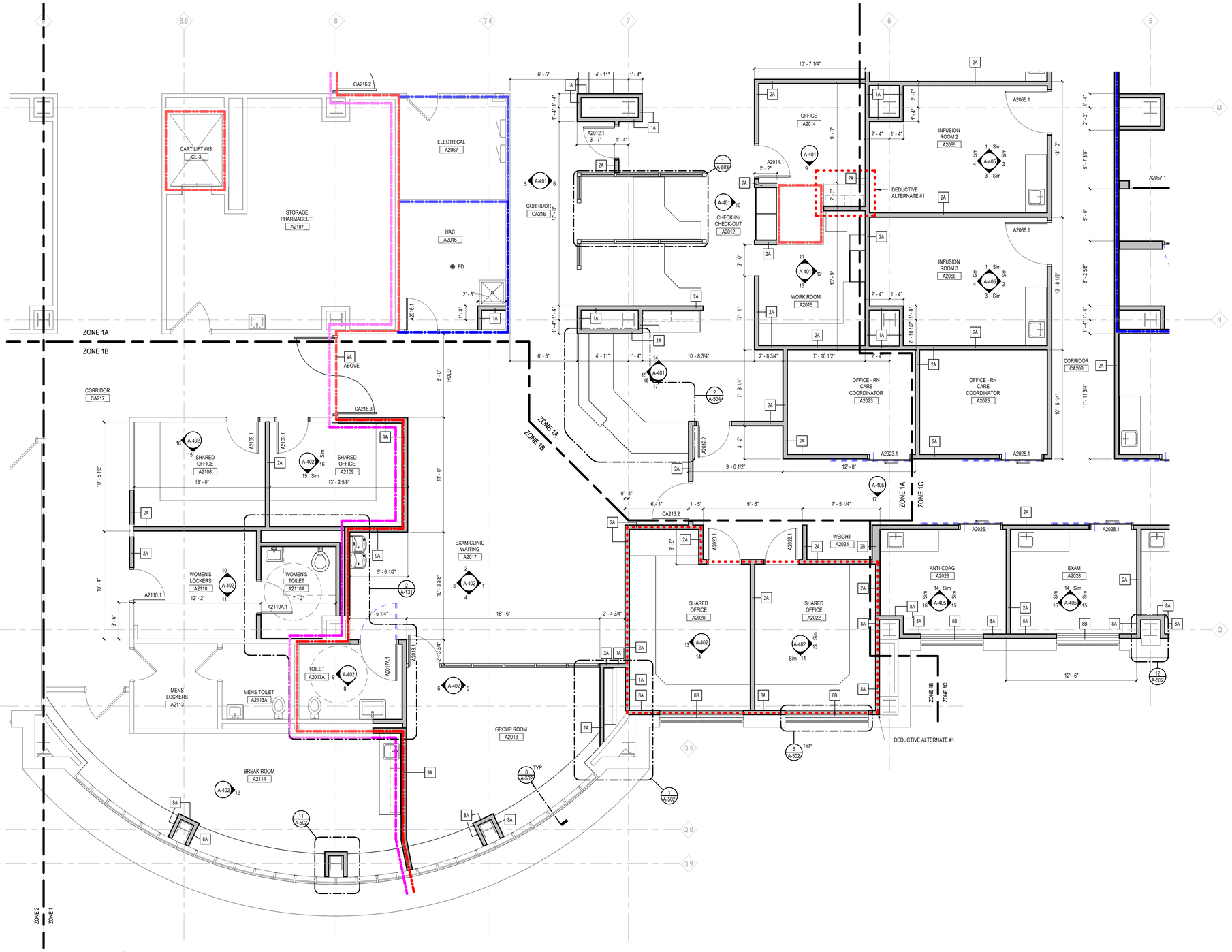

FLOOR PLAN - SECOND LEVEL - ZONE 1B
1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
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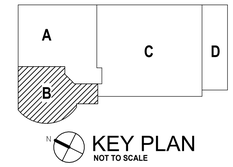

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Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
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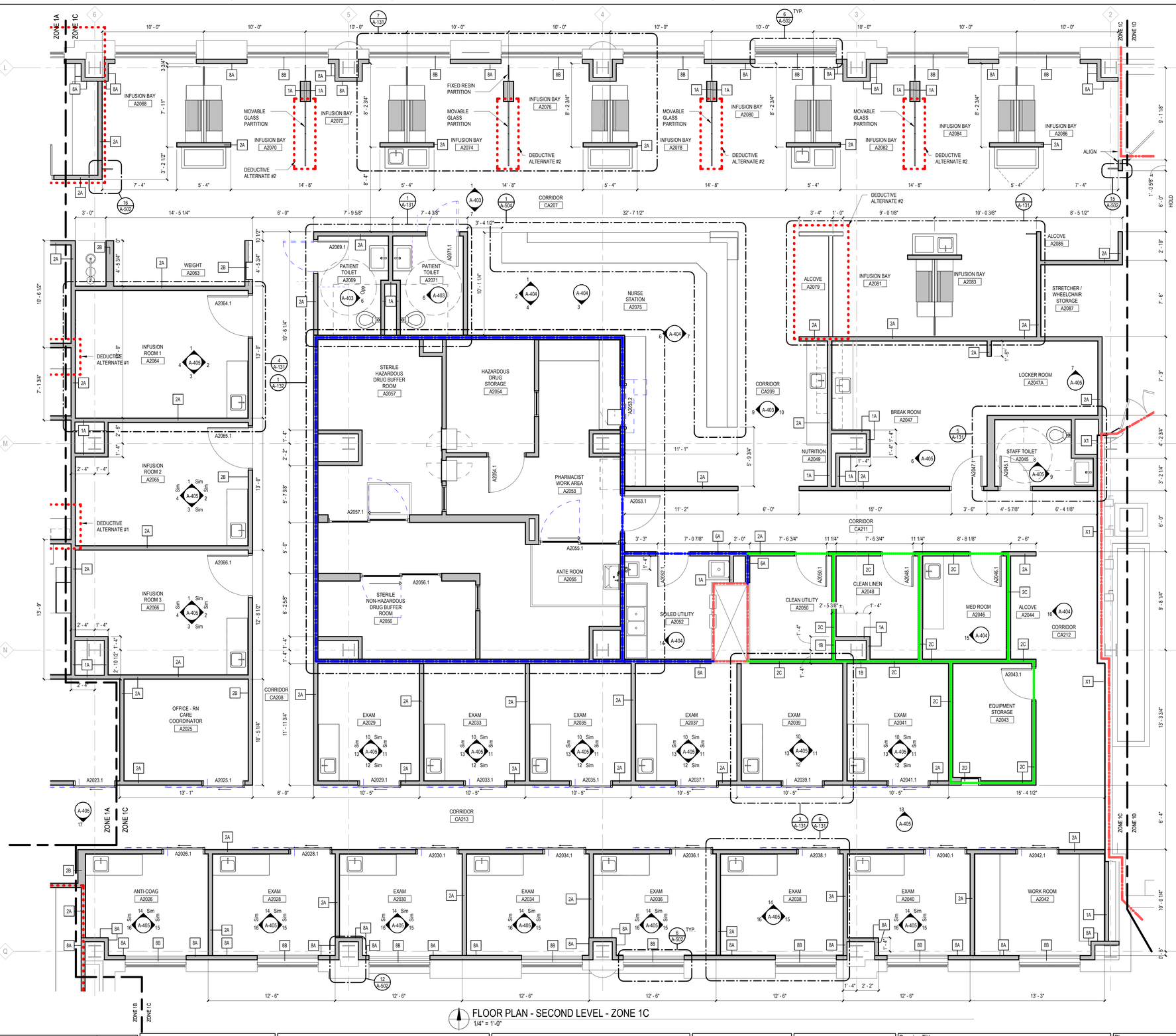

FLOOR PLAN - SECOND LEVEL - ZONE 1C
1/4" = 1'-0"

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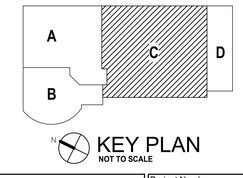

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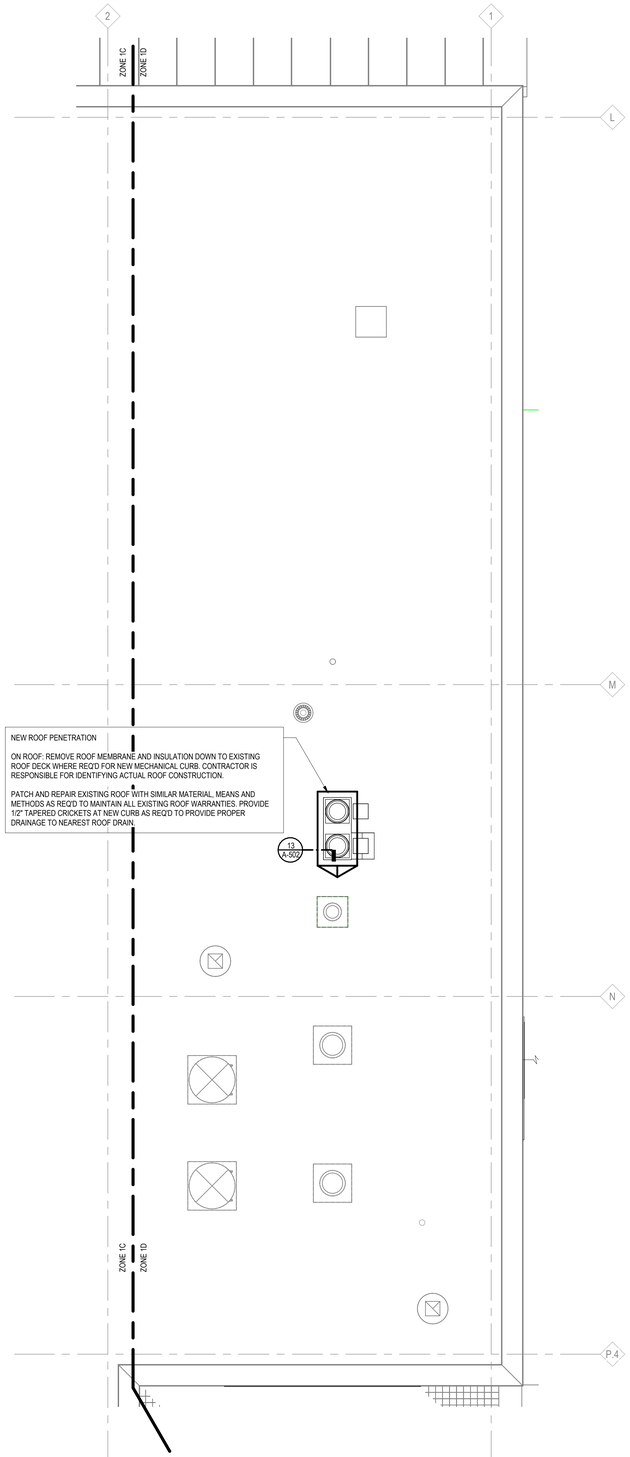
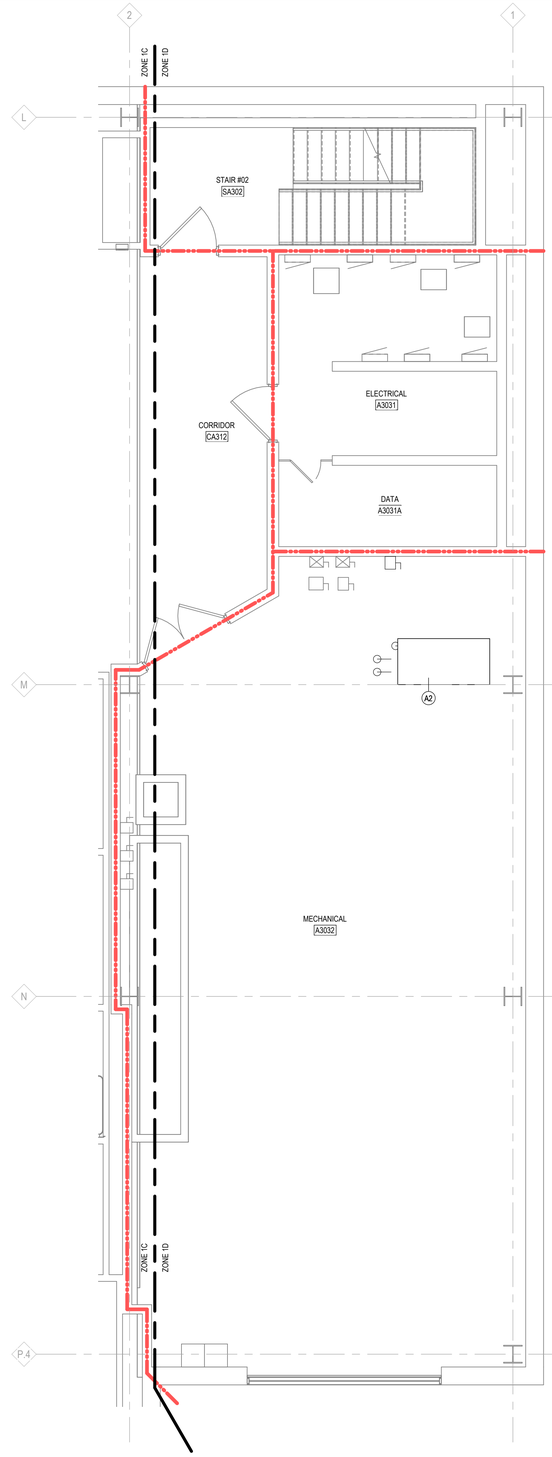


ROOF PLAN - ZONE 1D
1/4" = 1'-0"



FLOOR PLAN - THIRD LEVEL - ZONE 1D
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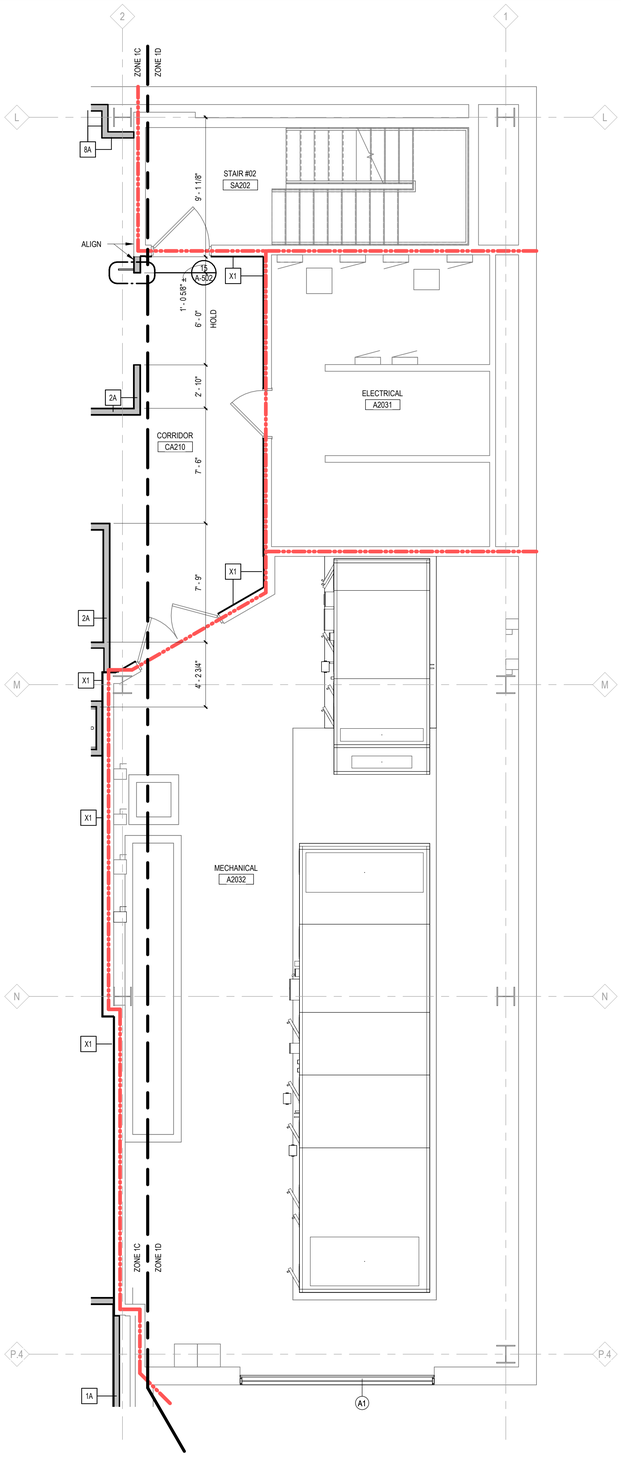

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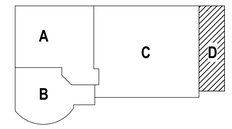
ROOF LEGEND

- EXISTING ROOF
- DENOTES REINF. MEMBRANE WALKWAY MATS - SEE SPECIFICATIONS.
- TAPERED INSULATION - ARROW INDICATES DIRECTION OF SLOPE.
- DENOTES MECHANICAL UNIT - SEE HVAC PLANS
- DENOTES AREA OF 1-HOUR FIRE RESISTIVE ROOF ASSEMBLY
- DENOTES EXHAUST FAN OR RELIEF VENT, SEE MECHANICAL PLANS FOR SPECIFICATIONS.
- EFFECTIVE DIRECTION OF ROOF SLOPE DUE TO STRUCTURE
- RD = ROOF DRAIN
- OD = OVERFLOW DRAIN
- SD = SCUPPER DRAIN
- CONDENSING UNIT

PLAN KEYNOTES

KEY VALUE	KEYNOTE TEXT
A1	CONTRACTOR TO REMOVE SALVAGED LOUVER FROM VA PROPERTY TO CLEAN, REPAIR, AND PAINT PRIOR TO REINSTALLATION. PROVIDE NEW BIRD SCREEN AND FOIL BACKED THERMAL INSULATION TO MATCH EXISTING TO MAKE AIR TIGHT.
A2	INSTALL SALVAGED PNEUMATIC TUBE PUMP STATION. MODIFY EXISTING TRANSPORT TUBES AS REQUIRED FOR CONNECTION TO NEW PUMP LOCATION. CORE FLOOR AS REQUIRED TO ALLOW TRANSPORT TUBES TO PASS THROUGH THE FLOOR.



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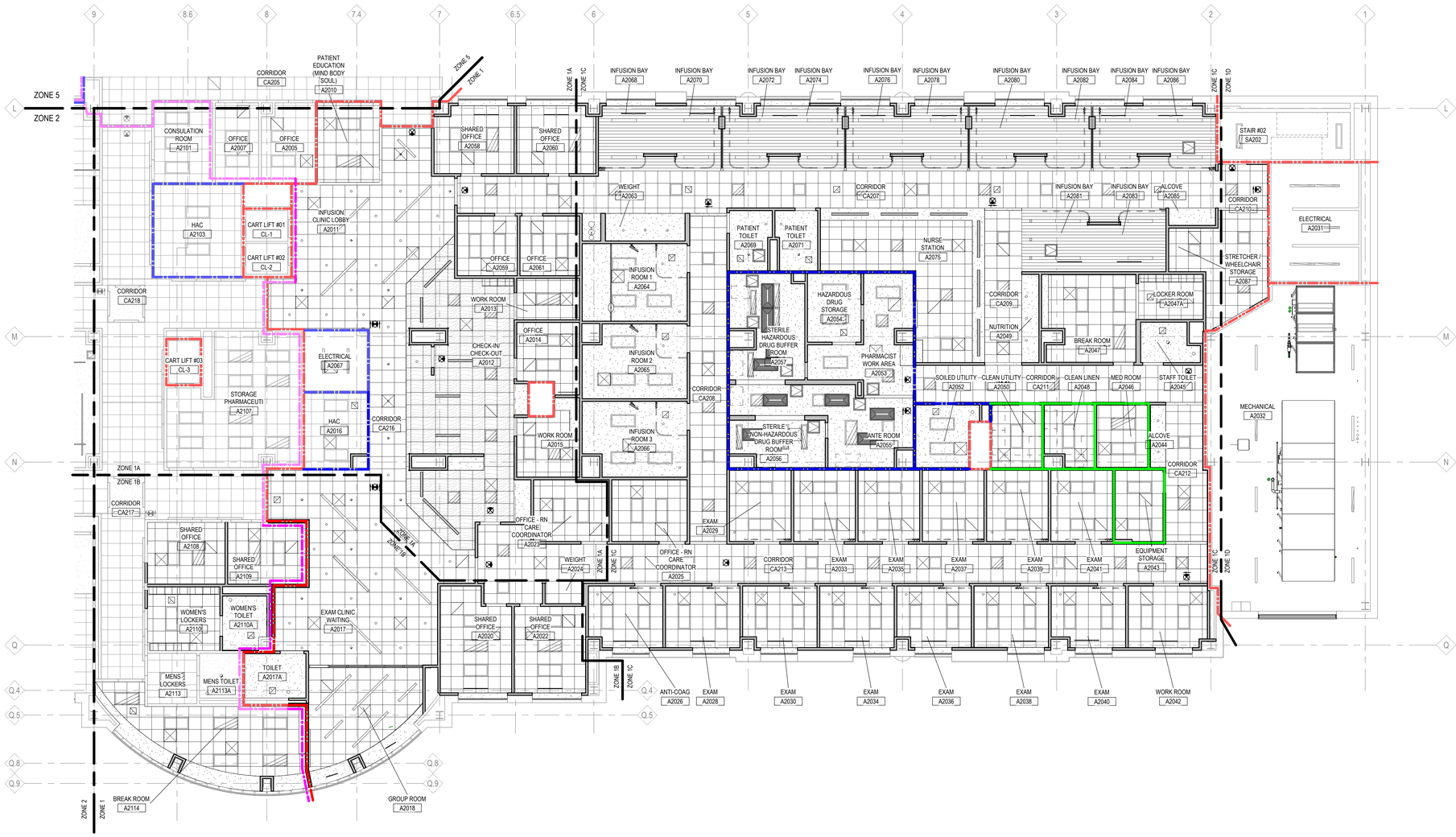

REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1
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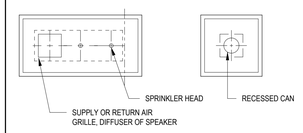
REFLECTED CEILING PLAN GENERAL NOTES:

1. SEE MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. ALL CEILING GRIDS TO BE CENTERED IN THE SPACE(BOTH DIRECTIONS), U.N.O.
3. ALL CEILING TO BE 9' - 0", U.N.O.
4. ALL BULKHEADS TO BE 7' - 0", U.N.O.



NOTE: ALL PENETRATIONS OF ACOUSTICAL CEILING PANELS , MECHANICAL, ELECTRICAL, OR FIRE SUPPRESSION COMPONENTS SHALL BE CENTERED IN THE SHORT DIMENSION AND BE CENTERED OR AT 1/4 POINTS IN THE LONG DIMENSION OF A PANEL AS INDICATED.

REFLECTED CEILING PLAN LEGEND:

- EXPOSED
- GYPSUM BOARD (PAINTED P-1, U.N.O)
- GYPSUM BOARD EXISTING
- 2X2 ACOUSTIC CEILING PANEL
- 2X2 ACOUSTIC CEILING PANEL EXISTING
- PAN METAL CEILING, WOOD LOOK (SMC-1)
- LINEAR METAL CEILING, WOOD LOOK (LMC-1)
- CEILING HEIGHT- ABOVE FINISH FLOOR
- CEILING HEIGHT- ABOVE FINISH FLOOR EXISTING

Revisions:	Date:
100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023

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Drawing Title: REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-112.1

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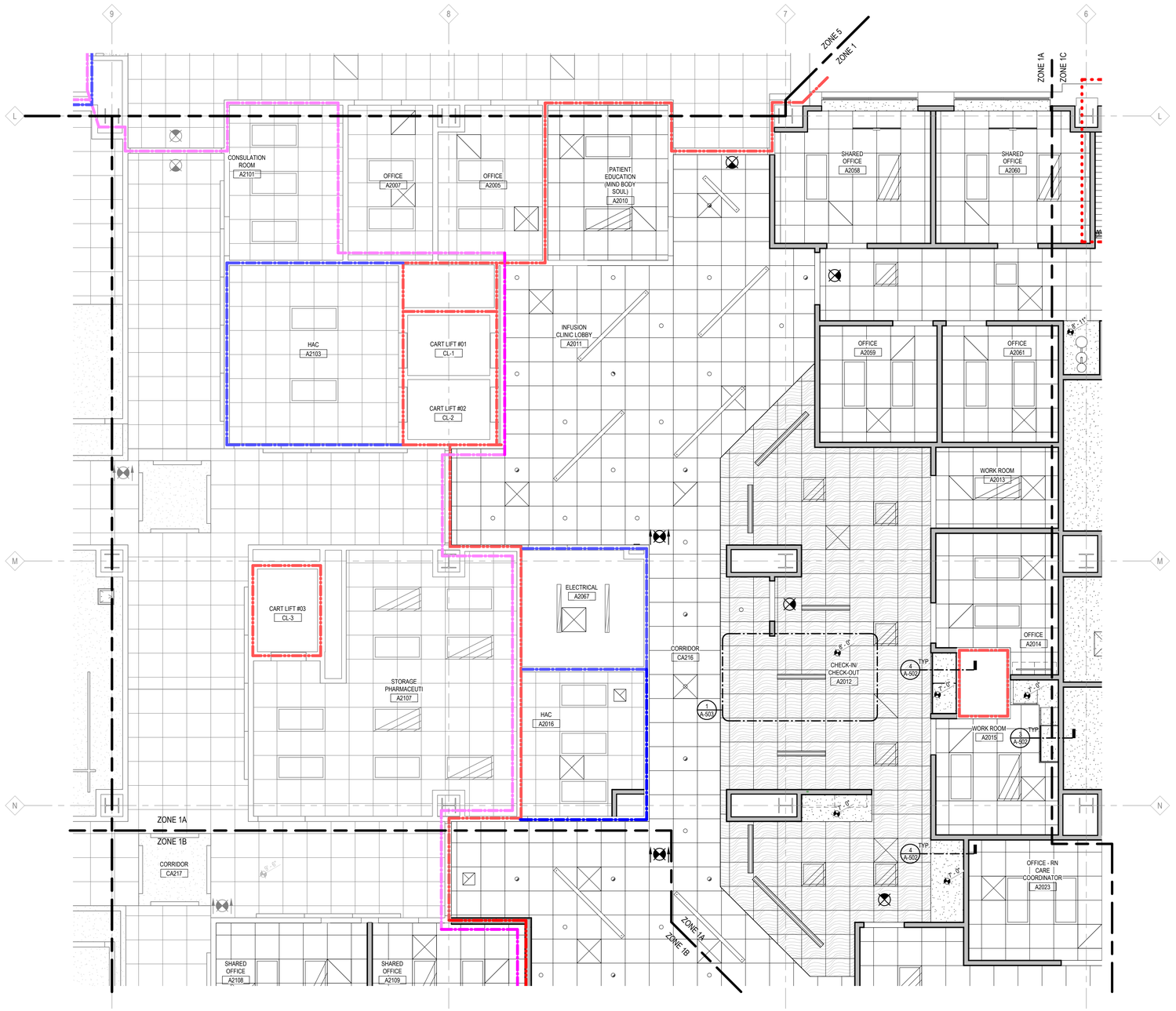


REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1A
1/4" = 1'-0"

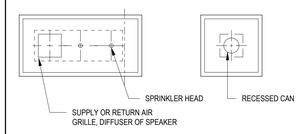
PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

REFLECTED CEILING PLAN GENERAL NOTES:

1. SEE MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. ALL CEILING GRIDS TO BE CENTERED IN THE SPACE(BOTH DIRECTIONS), U.N.O.
3. ALL CEILING TO BE 9' - 0", U.N.O.
4. ALL BULKHEADS TO BE 7' - 0", U.N.O.



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- GYPSUM BOARD EXISTING
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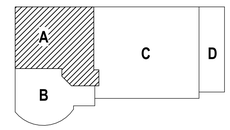
- 2X2 ACOUSTIC CEILING PANEL EXISTING
- PAN METAL CEILING, WOOD LOOK (SMC-1)
- LINEAR METAL CEILING, WOOD LOOK (LMC-1)
- 9'-0" CEILING HEIGHT- ABOVE FINISH FLOOR
- 9'-0" CEILING HEIGHT- ABOVE FINISH FLOOR EXISTING



KEY PLAN
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Drawing Title: REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1A
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Phase: 100% BID DOCUMENTS
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Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB

Project Number: 553-21-100
Building Number:
Drawing Number: A-112.1A

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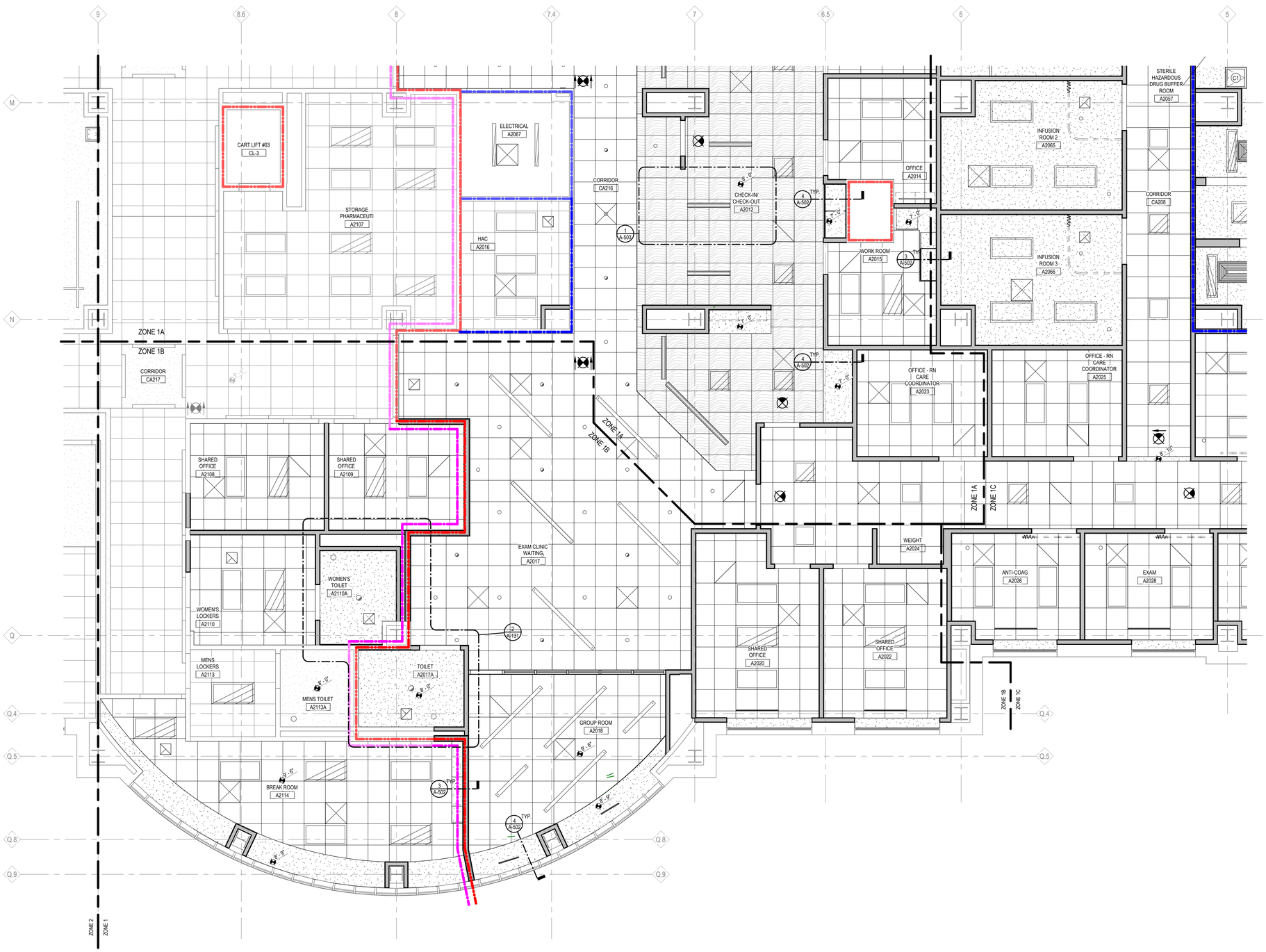

REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1B
1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

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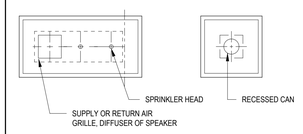
1. SEE MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. ALL CEILING GRIDS TO BE CENTERED IN THE SPACE(BOTH DIRECTIONS), U.N.O.
3. ALL CEILING TO BE 9' - 0", U.N.O.
4. ALL BULKHEADS TO BE 7' - 0", U.N.O.



NOTE: ALL PENETRATIONS OF ACOUSTICAL CEILING PANELS , MECHANICAL, ELECTRICAL, OR FIRE SUPPRESSION COMPONENTS SHALL BE CENTERED IN THE SHORT DIMENSION AND BE CENTERED OR AT 1/4 POINTS IN THE LONG DIMENSION OF A PANEL AS INDICATED.

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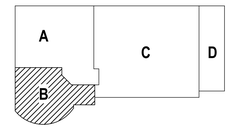
- LINEAR METAL CEILING, WOOD LOOK (LMC-1)
- CEILING HEIGHT- ABOVE FINISH FLOOR
- CEILING HEIGHT- ABOVE FINISH FLOOR EXISTING



KEY PLAN
NOT TO SCALE

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Drawing Title: REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1B
Approved:
Phase: 100% BID DOCUMENTS
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Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-112.1B

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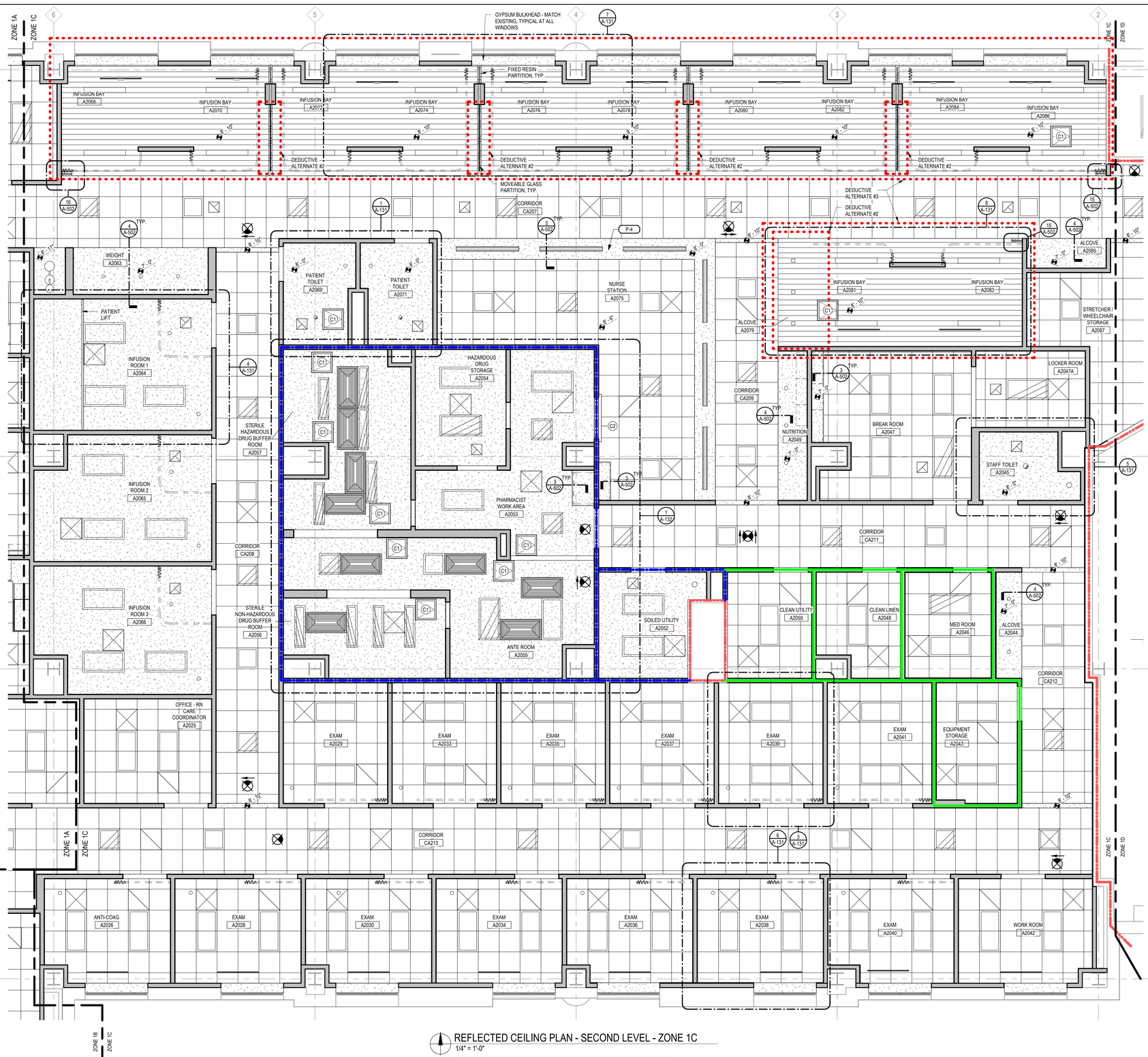

REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1C
1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

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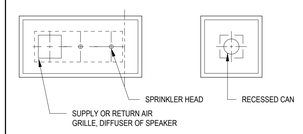

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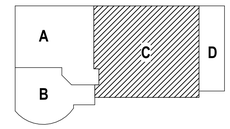
- CEILING HEIGHT- ABOVE FINISH FLOOR
- CEILING HEIGHT- ABOVE FINISH FLOOR EXISTING

CEILING KEYNOTES

KEY VALUE	KEYNOTE TEXT
C1	CEILING ACCESS PANEL, COORDINATE FINAL LOCATION WITH MECHANICAL, PLUMBING, AND ELECTRICAL NEEDS.
C2	GAP IN SUSPENDED CEILING SYSTEM TO ACCOMODATE COILING COUNTER SHUTTER. USE AXIOM TRIM TO SEAL CEILING PLENUM AS SHOWN.



KEY PLAN
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Drawing Title: REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1C
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-112.1C

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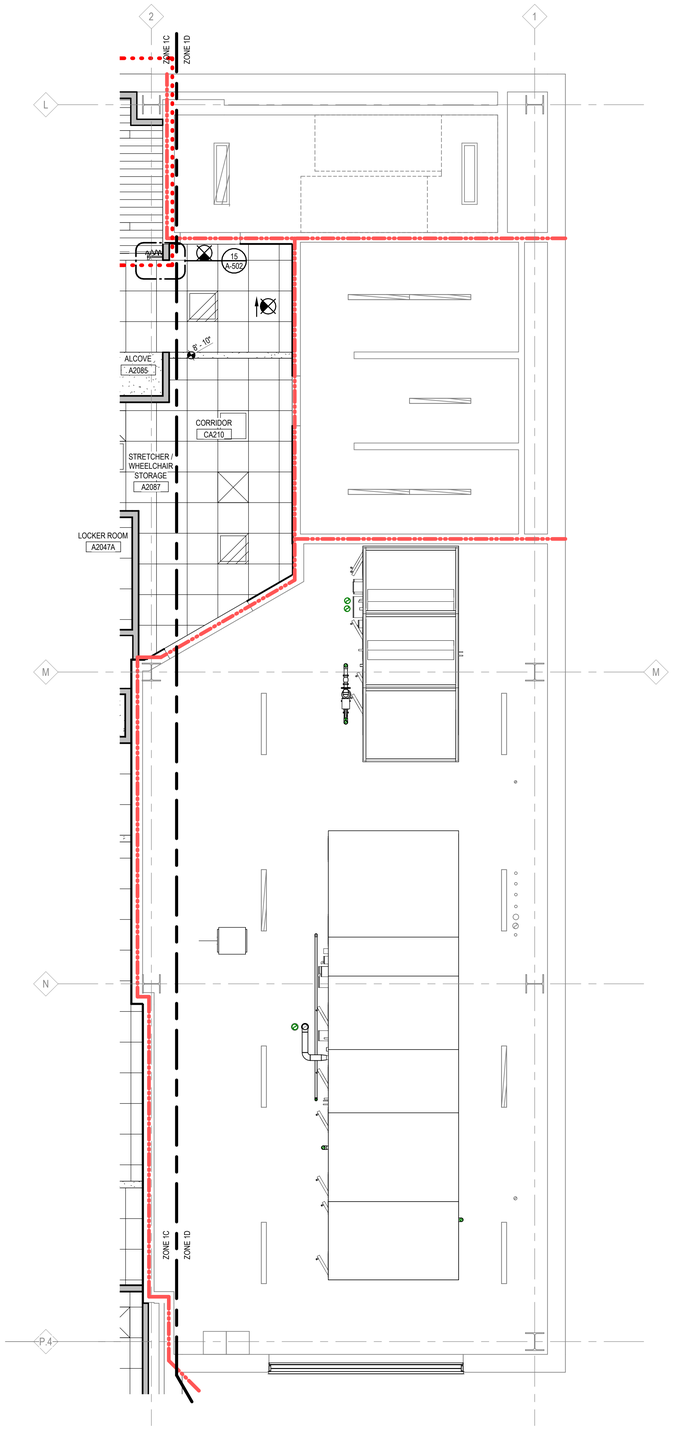

REFLECTED CEILING PLAN - SECOND LEVEL - ZONE 1D
1/4" = 1'-0"

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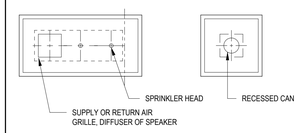

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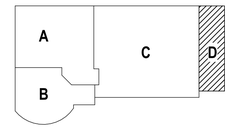

KEY PLAN
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Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
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Drawn: MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-112.1D

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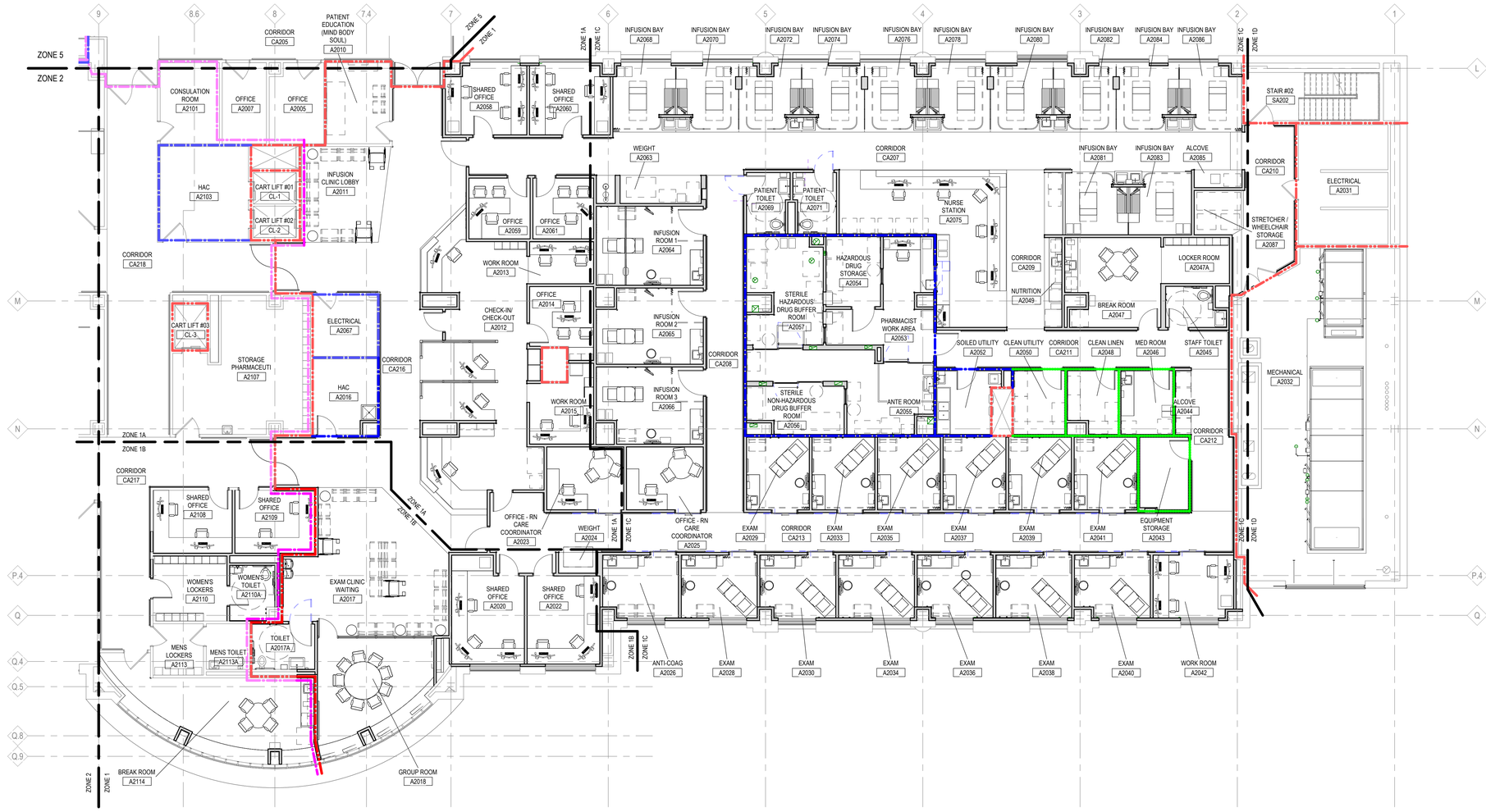
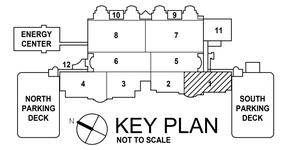


EQUIPMENT PLAN - SECOND LEVEL - ZONE 1
1/8" = 1'-0"



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NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

GENERAL NOTES:

1. SUB-CONTRACTORS ARE TO COORDINATE WORK WITH ALL OTHER TRADES.
2. CONFLICTS BETWEEN NOTES, DETAILS, SPECIFICATIONS, ETC., SHALL BE VERIFIED WITH THE VA COR OR THE MOST STRINGENT PROVISIONS SHALL GOVERN.
3. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS. ANY UNCLEAR CONDITIONS SHALL BE VERIFIED WITH VA COR PRIOR TO CONSTRUCTION OF THAT AREA.
4. DRAWINGS ARE NOT TO BE SCALED. ANY UNCLEAR DIMENSIONS OR DIMENSIONAL DISCREPANCIES SHALL BE VERIFIED WITH VA COR.
5. ALL EXISTING CONDITIONS AND ALL RELATED DIMENSIONS INDICATED IN THE CONTRACT DOCUMENTS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION, ERECTION, AND/OR CONSTRUCTION. ANY CONDITIONS THAT DIFFER FROM THAT INDICATED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE VA COR FOR REVIEW PRIOR TO FABRICATION, ERECTION, AND/OR CONSTRUCTION.
6. GENERAL CONTRACTOR (GC) TO REVIEW ENTIRE SET OF CONSTRUCTION DOCUMENTS AND SHALL COORDINATE WORK BETWEEN ALL TRADES. IF CONFLICTS ARISE DUE TO COORDINATION OF TRADES, CM / GC IS TO VERIFY CONFLICT WITH VA COR PRIOR TO CONSTRUCTION / INSTALLATION OF CONFLICTING ITEMS.
7. PATCH ALL EXPOSED INTERIOR AND EXTERIOR WALLS WHERE ATTACHED OR IMBEDDED ITEMS WERE REMOVED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATIONS OF THE FLOORS, WALLS, AND CEILINGS FOR NEW FINISHES.
9. MAINTAIN FIRE RATING AT ALL ASSEMBLIES WHERE OPENINGS PENETRATIONS, EMBEDMENT, RECESSED EQUIPMENT, ACCESSORIES, ETC. DISRUPT THE CONTINUITY OF THE RATING
10. REMOVE ADHESIVE/OR MORTAR LEFT FROM THE REMOVAL OF EXISTING FLOOR COVERING AND PREP FLOOR W/CONCRETE (OR FLORSTONE) AS NECESSARY TO ACCOMMODATE NEW FLOOR COVERINGS.
11. ALL DIMENSIONS ARE FROM FACE OF FINISHED GYPSUM BOARD, C.M.U., OR CONCRETE , U.N.O.
12. PROVIDE ISOLATION MATERIAL BETWEEN DISSIMILAR MATERIALS THAT ARE IN CONTACT WITH ONE ANOTHER.
13. PATCH & REPAIR ALL MAJOR & MINOR BLEMISHES AS REQ'D. DUE TO DEMOLITION WORK. MATCH ADJACENT MATERIAL & COLOR.
14. PROVIDE SOLID, CONTINUOUS, NON COMBUSTIBLE BLOCKING AT LOCATIONS WHERE MILLWORK, PLUMBING FIXTURES, EQUIP., ETC. ATTACH TO WALL OR CEILING.

100% BID DOCUMENTS	10-JAN-2025
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Building Number:
Drawing Number: A-122.1

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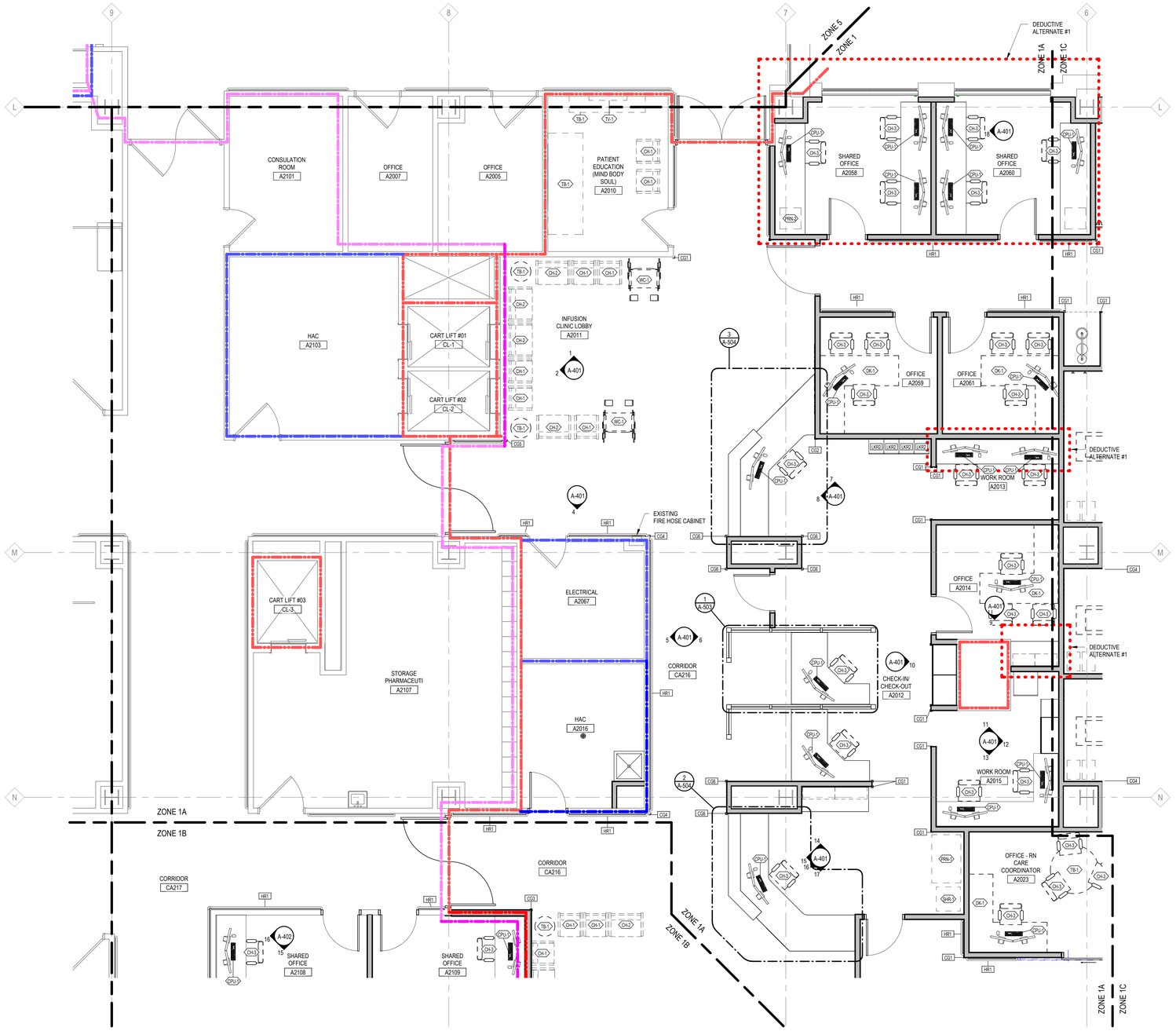


EQUIPMENT PLAN - SECOND LEVEL - ZONE 1A
1/4" = 1'-0"

SCHEDULE GENERAL NOTES

1. SEE REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT INFORMATION

ABBREVIATIONS

AI - ACQUISITION AND INSTALLATION
C C - CONTRACTOR FURNISHED AND INSTALLED
D - DATA
E - ELECTRICAL
M - MECHANICAL
P - PLUMBING
N - NONE
V C - GOVERNMENT FURNISHED, CONTRACTOR INSTALLED
V V - GOVERNMENT FURNISHED AND INSTALLED

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

DIVISION 10 SCHEDULE

TAG	DESCRIPTION	BASIS OF DESIGN	AI	BLOCKING REQ'D	NOTES
CCT1	CUBICLE CURTAIN TRACK & CARRIERS (FAB-1, SEE INTERIOR MATERIALS SCHEDULE)	-	C C	NO	NOTES: 1, 2
CG1	CORNER GUARD, 3' H (NEUTRAL)	INPRO	C C	NO	<varies>
CG2	CORNER GUARD, 3' H (BLUE)	INPRO	C C	NO	NOTES: 1, 4
CG3	CORNER GUARD, 3' H (GREEN)	CS GROUP	C C	NO	NOTES: 1, 4
CG4	CORNER GUARD, 3' H (BLUE PATTERNED)	INPRO	C C	NO	NOTES: 1, 5
CG5	CORNER GUARD, FULL HEIGHT (NEUTRAL)	INPRO	C C	NO	<varies>
CG6	CORNER GUARD, FULL HEIGHT (BLUE)	CS GROUP	C C	NO	NOTES: 1, 4
CG7	STAINLESS STEEL, FULL HEIGHT	INPRO	C C	NO	NOTES: 1, 3
CH1	HAT & COAT HOOK	BRADLEY, MODEL 9124	C C	YES	
FHC	FIRE HOSE CABINET, RECESSED	-	C C	NO	
GB1	18" GRAB BAR	-	C C	YES	
GB2	42" GRAB BAR	-	C C	YES	
GB3	36" GRAB BAR	-	C C	YES	
HR1	HANDRAIL, WALL PROTECTION & BUMPER RAIL	INPRO	C C	YES	NOTES: 1, 6
HS1	HAND SANITIZER	-	V C	YES	
LKR1	LOCKER	-	C C	YES	
LKR2	LOCKER	-	C C	YES	
MB1	MAGNETIC MARKERBOARD, 2' X 3'	-	C C	YES	
MB2	MAGNETIC WHITE BOARD, 4' X 6'	-	C C	YES	
MR1	24" x 36" MIRROR	-	C C	YES	
PT1	PAPER TOWEL DISPENSER	-	V C	YES	
SD1	SOAP DISPENSER	-	V C	YES	
SND	SANITARY NAPKIN DISPOSAL	-	V C	YES	
TTD1	TOILET TISSUE DISPENSER	-	V C	YES	

DIVISION 10 - NOTES LEGEND

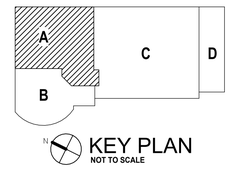
1. SEE MATERIALS SCHEDULE
2. CUBICLE CURTAIN - V C
3. 150 HIGH IMPACT CORNER GUARD; IF TWO ARE SHOWN ON A CORNER TO BE STAINLESS STEEL FLUSH MOUNT END WALL PROTECTOR (2" WINGS, STAINLESS STEEL, SATIN FINISH)
4. ACROVYN, SM-20 CORNER GUARD
5. PALLADIUM, 150 HIGH IMPACT CORNER GUARD
6. 800 HANDRAIL, 500 BUMPER; COLOR TO BE SLATE 0237

FURNITURE & EQUIPMENT SCHEDULE

TAG	DESCRIPTION	UTILITIES	AI	BLOCKING REQ'D	NOTES
BCH-1	BENCH, MOBILE	-	V V	NO	
BW-1	BLANKET WARMER	E	V V	NO	
CC-1	CRASH CART	-	V V	NO	
CD-1	EAR CUP DISPENSER	-	V C	NO	
CH-1	CHAIR	-	V V	NO	
CH-2	CHAIR	-	V V	NO	
CH-3	CHAIR	-	V V	NO	
CM-1	COFFEE MAKER - TALL	E	V V	NO	
CM-2	COFFEE MAKER - SHORT	E	V V	NO	
CPU-1	COMPUTER WORKSTATION	E, D	V V	NO	
CPU-2	COMPUTER, WALL MOUNTED	E, D	V V	YES	
CPW-1	CHEMOTHERAPY PPE WASTE	-	V V	NO	
CRT-1	CART, PPE	-	V V	NO	
DISP-1	MAGNETIC BULK DISPENSER	-	V C	YES	
DK-1	DESK	-	V V	NO	
EMP-1	EQUIPMENT MOUNTING PANEL	-	V C	YES	
ET-1	EXAM TABLE	-	V V	NO	
GL-1	WIRE GLOVE BOX HOLDER	N	V C	YES	
H01-72	LAMINAR FLOW	E	V C	NO	
H02-48	BIOLOGICAL SAFETY CABINET - CLASS II, TYPE A2	E, M	V C	NO	
HW-1	HAZARDOUS TRASH - 12 GALLON - BLACK	-	V V	NO	
HW-2	HAZARDOUS TRASH - 19 GALLON - YELLOW	-	V V	NO	
ICE-1	COUNTER ICE MAKER	E, P	V V	NO	
IFS-1	IN-FLOOR SCALE	E	C C	NO	NOTE: 1
IR-1	INFUSION RECLINER	E	V V	NO	
MBC-1	MOBILE L BASE CABINET	-	V V	NO	
MED-1	MEDICAL SUPPLY CART	-	V V	NO	
MON-2	PATIENT TV, WALL MOUNTED	E	V V	YES	
MW-1	MICROWAVE	E	V V	NO	
OMC-1	OMNICELL MED MACHINE	E, D	V V	NO	
OT-1	OTOSCOPE/OPTHALMOSCOPE, WALL MTD.	E	V C	NO	
PL-1	CEILING MOUNTED PATIENT LIFT, SOLE SOURCED	E	C C	YES	
PPT-1	PHARMACY PASS THROUGH - CLEAN ROOM	E	C C	NO	
PRN-1	PRINTER - FLOOR	E, D	V V	NO	
PRN-2	MULTI-FUNCTIONAL DEVICE - COUNTERTOP	E	V V	NO	
PRN-3	PRINTER - XEROX VERSALINK B600	E, D	V V	NO	
PRN-4	ZEBRA BAR CODE PRINTER	E, D	V V	NO	
REF-1	REFRIGERATOR	E	V V	NO	
REF-2	REFRIGERATOR - PHARMACY	E	V V	NO	
REF-3	REFRIGERATOR - MEDICATION	E	V V	NO	
SHR-1	SHREDDER BOX	-	V V	NO	
SLF-1	SHELVING, MOBILE	-	V V	NO	
SPH-1	SPHYGMOMANOMETER, WALL MOUNTED	-	V C	NO	
SRP-1	SHARPS CONTAINER	-	V C	YES	
ST-1	EXAM STOOL	-	V V	NO	
STR-1	STRETCHER	-	V V	NO	
TB-1	TABLE	-	V V	NO	
TB-2	TABLE, MOBILE	-	V V	NO	
TC-1	TRASH CAN	-	V V	NO	
THM-1	THERMOMETER	-	V C	NO	
TV-1	TV AND TV BRACKET	E, D	V C	NO	
VSM-1	VITAL SIGNS MONITOR - MOBILE	-	V V	NO	
WC-1	WHEELCHAIR	-	V V	NO	
WOW-1	WOW	E	V V	NO	

FURNITURE & EQUIPMENT - NOTES LEGEND

1. BASIS OF DESIGN:
   - MANUFACTURER: SR INSTRUMENTS, INC
   - MODEL: SR6536R-3
   - FLUSH MOUNTED PLATFORM SCALE
   - PLATFORM SIZE: 32" X 50"
   - MAX WEIGHT: 1000LB
   - WALL MOUNTED DISPLAY WITH LED BACKLIGHT
     1. DISPLAY TO OFFER MEMORY RECALL
     2. DISPLAY UNITS: POUNDS / KILOGRAMS
   - WALL MOUNTED BUILT-IN PRINTER
   - POWER: 120VAC 50-60Hz
   - SCALE TO AUTOMATICALLY TURN ON
   - BUILT-IN GRAB BAR
   - WARRANTY: MINIMUM 4 YEARS



N KEY PLAN
NOT TO SCALE

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

VA STATION
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4646 John R. Street
Detroit , MI 48201

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Monument Engineering Group Associates, Inc. MEGA

ENGINEER OF RECORD
WalterMechanical Services Inc.
3419 Pierson Place
Flushing, Michigan, 48433
810-230-6202

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

Drawing Title: EQUIPMENT PLAN - SECOND LEVEL - ZONE 1A
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-122.1A

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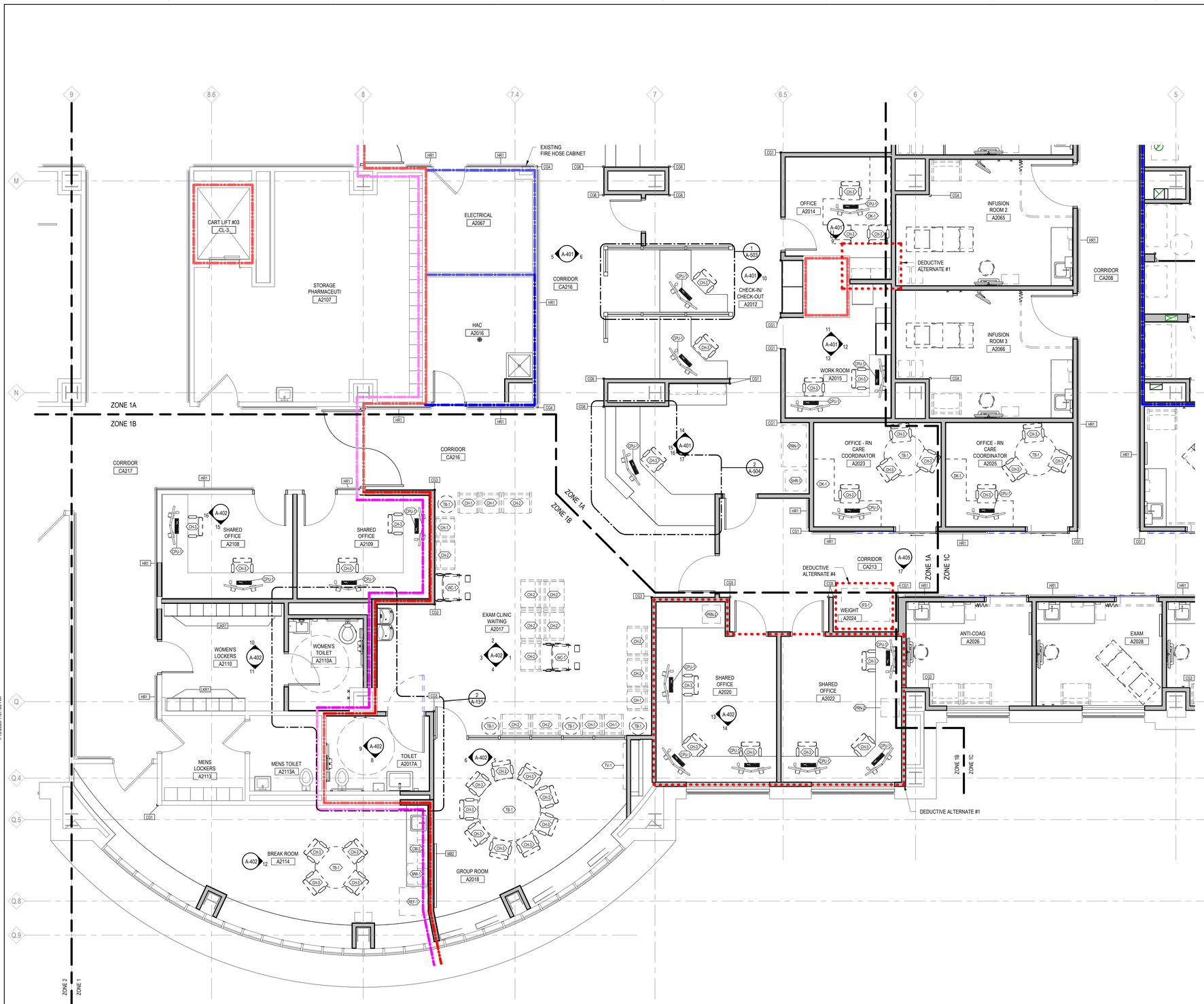

EQUIPMENT PLAN - SECOND LEVEL - ZONE 1B
1/4" = 1'-0"

SCHEDULE GENERAL NOTES

1. SEE REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT INFORMATION

ABBREVIATIONS

AI - ACQUISITION AND INSTALLATION
C C - CONTRACTOR FURNISHED AND INSTALLED
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PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

DIVISION 10 SCHEDULE

TAG	DESCRIPTION	BASIS OF DESIGN	AI	BLOCKING REQ'D	NOTES
CCT1	CUBICLE CURTAIN TRACK & CARRIERS (FAB-1, SEE INTERIOR MATERIALS SCHEDULE)	-	C C	NO	NOTES: 1, 2
CG1	CORNER GUARD, 3' H (NEUTRAL)	INPRO	C C	NO	<varies>
CG2	CORNER GUARD, 3' H (BLUE)	INPRO	C C	NO	NOTES: 1, 4
CG3	CORNER GUARD, 3' H (GREEN)	CS GROUP	C C	NO	NOTES: 1, 4
CG4	CORNER GUARD, 3' H (BLUE PATTERNED)	INPRO	C C	NO	NOTES: 1, 5
CG5	CORNER GUARD, FULL HEIGHT (NEUTRAL)	INPRO	C C	NO	<varies>
CG6	CORNER GUARD, FULL HEIGHT (BLUE)	CS GROUP	C C	NO	NOTES: 1, 4
CG7	STAINLESS STEEL, FULL HEIGHT	INPRO	C C	NO	NOTES: 1, 3
CH1	HAT & COAT HOOK	BRADLEY, MODEL 9124	C C	YES	
FHC	FIRE HOSE CABINET, RECESSED	-	C C	NO	
GB1	18" GRAB BAR	-	C C	YES	
GB2	42" GRAB BAR	-	C C	YES	
GB3	36" GRAB BAR	-	C C	YES	
HR1	HANDRAIL, WALL PROTECTION & BUMPER RAIL	INPRO	C C	YES	NOTES: 1, 6
HS1	HAND SANITIZER	-	V C	YES	
LKR1	LOCKER	-	C C	YES	
LKR2	LOCKER	-	C C	YES	
MB1	MAGNETIC MARKERBOARD, 2' X 3'	-	C C	YES	
MB2	MAGNETIC WHITE BOARD, 4' X 6'	-	C C	YES	
MR1	24" x 36" MIRROR	-	C C	YES	
PT1	PAPER TOWEL DISPENSER	-	V C	YES	
SD1	SOAP DISPENSER	-	V C	YES	
SND	SANITARY NAPKIN DISPOSAL	-	V C	YES	
TTD1	TOILET TISSUE DISPENSER	-	V C	YES	

DIVISION 10 - NOTES LEGEND

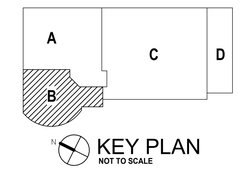
1. SEE MATERIALS SCHEDULE
2. CUBICLE CURTAIN - V C
3. 150 HIGH IMPACT CORNER GUARD; IF TWO ARE SHOWN ON A CORNER TO BE STAINLESS STEEL FLUSH MOUNT END WALL PROTECTOR (2" WINGS, STAINLESS STEEL, SATIN FINISH)
4. ACROVYN, SM-20 CORNER GUARD
5. PALLADIUM, 150 HIGH IMPACT CORNER GUARD
6. 800 HANDRAIL, 500 BUMPER; COLOR TO BE SLATE 0237

FURNITURE & EQUIPMENT SCHEDULE

TAG	DESCRIPTION	UTILITIES	AI	BLOCKING REQ'D	NOTES
BCH-1	BENCH, MOBILE	-	V V	NO	
BW-1	BLANKET WARMER	E	V V	NO	
CC-1	CRASH CART	-	V V	NO	
CD-1	EAR CUP DISPENSER	-	V C	NO	
CH-1	CHAIR	-	V V	NO	
CH-2	CHAIR	-	V V	NO	
CH-3	CHAIR	-	V V	NO	
CM-1	COFFEE MAKER - TALL	E	V V	NO	
CM-2	COFFEE MAKER - SHORT	E	V V	NO	
CPU-1	COMPUTER WORKSTATION	E, D	V V	NO	
CPU-2	COMPUTER, WALL MOUNTED	E, D	V V	YES	
CPW-1	CHEMOTHERAPY PPE WASTE	-	V V	NO	
CRT-1	CART, PPE	-	V V	NO	
DISP-1	MAGNETIC BULK DISPENSER	-	V C	YES	
DK-1	DESK	-	V V	NO	
EMP-1	EQUIPMENT MOUNTING PANEL	-	V C	YES	
ET-1	EXAM TABLE	-	V V	NO	
GL-1	WIRE GLOVE BOX HOLDER	N	V C	YES	
H01-72	LAMINAR FLOW	E	V C	NO	
H02-48	BIOLOGICAL SAFETY CABINET - CLASS II, TYPE A2	E, M	V C	NO	
HW-1	HAZARDOUS TRASH - 12 GALLON - BLACK	-	V V	NO	
HW-2	HAZARDOUS TRASH - 19 GALLON - YELLOW	-	V V	NO	
ICE-1	COUNTER ICE MAKER	E, P	V V	NO	
IFS-1	IN-FLOOR SCALE	E	C C	NO	NOTE: 1
IR-1	INFUSION RECLINER	E	V V	NO	
MBC-1	MOBILE L BASE CABINET	-	V V	NO	
MED-1	MEDICAL SUPPLY CART	-	V V	NO	
MON-2	PATIENT TV, WALL MOUNTED	E	V V	YES	
MW-1	MICROWAVE	E	V V	NO	
OMC-1	OMNICELL MED MACHINE	E, D	V V	NO	
OT-1	OTOSCOPE/OPTHALMOSCOPE, WALL MTD.	E	V C	NO	
PL-1	CEILING MOUNTED PATIENT LIFT, SOLE SOURCED	E	C C	YES	
PPT-1	PHARMACY PASS THROUGH - CLEAN ROOM	E	C C	NO	
PRN-1	PRINTER - FLOOR	E, D	V V	NO	
PRN-2	MULTI-FUNCTIONAL DEVICE - COUNTERTOP	E	V V	NO	
PRN-3	PRINTER - XEROX VERSALINK B600	E, D	V V	NO	
PRN-4	ZEBRA BAR CODE PRINTER	E, D	V V	NO	
REF-1	REFRIGERATOR	E	V V	NO	
REF-2	REFRIGERATOR - PHARMACY	E	V V	NO	
REF-3	REFRIGERATOR - MEDICATION	E	V V	NO	
SHR-1	SHREDDER BOX	-	V V	NO	
SLF-1	SHELVING, MOBILE	-	V V	NO	
SPH-1	SPHYGMOMANOMETER, WALL MOUNTED	-	V C	NO	
SRP-1	SHARPS CONTAINER	-	V C	YES	
ST-1	EXAM STOOL	-	V V	NO	
STR-1	STRETCHER	-	V V	NO	
TB-1	TABLE	-	V V	NO	
TB-2	TABLE, MOBILE	-	V V	NO	
TC-1	TRASH CAN	-	V V	NO	
THM-1	THERMOMETER	-	V C	NO	
TV-1	TV AND TV BRACKET	E, D	V C	NO	
VSM-1	VITAL SIGNS MONITOR - MOBILE	-	V V	NO	
WC-1	WHEELCHAIR	-	V V	NO	
WOW-1	WOW	E	V V	NO	

FURNITURE & EQUIPMENT - NOTES LEGEND

1. BASIS OF DESIGN:
   - MANUFACTURER: SR INSTRUMENTS, INC
   - MODEL: SR463R-3
   - FLUSH MOUNTED PLATFORM SCALE
   - PLATFORM SIZE: 32" X 50"
   - MAX WEIGHT: 1000LB
   - WALL MOUNTED DISPLAY WITH LED BACKLIGHT
     1. DISPLAY TO OFFER MEMORY RECALL
     2. DISPLAY UNITS: POUNDS / KILOGRAMS
   - WALL MOUNTED BUILT-IN PRINTER
   - POWER: 120VAC 50-60Hz
   - SCALE TO AUTOMATICALLY TURN ON
   - BUILT-IN GRAB BAR
   - WARRANTY: MINIMUM 4 YEARS



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Revisions:	Date:

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Detroit , MI 48201

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269.216.0222
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WalterMechanical Services Inc.
3419 Pierson Place
Flushing, Michigan, 48433
810-230-6202

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

Drawing Title: EQUIPMENT PLAN - SECOND LEVEL - ZONE 1B
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-122.1B

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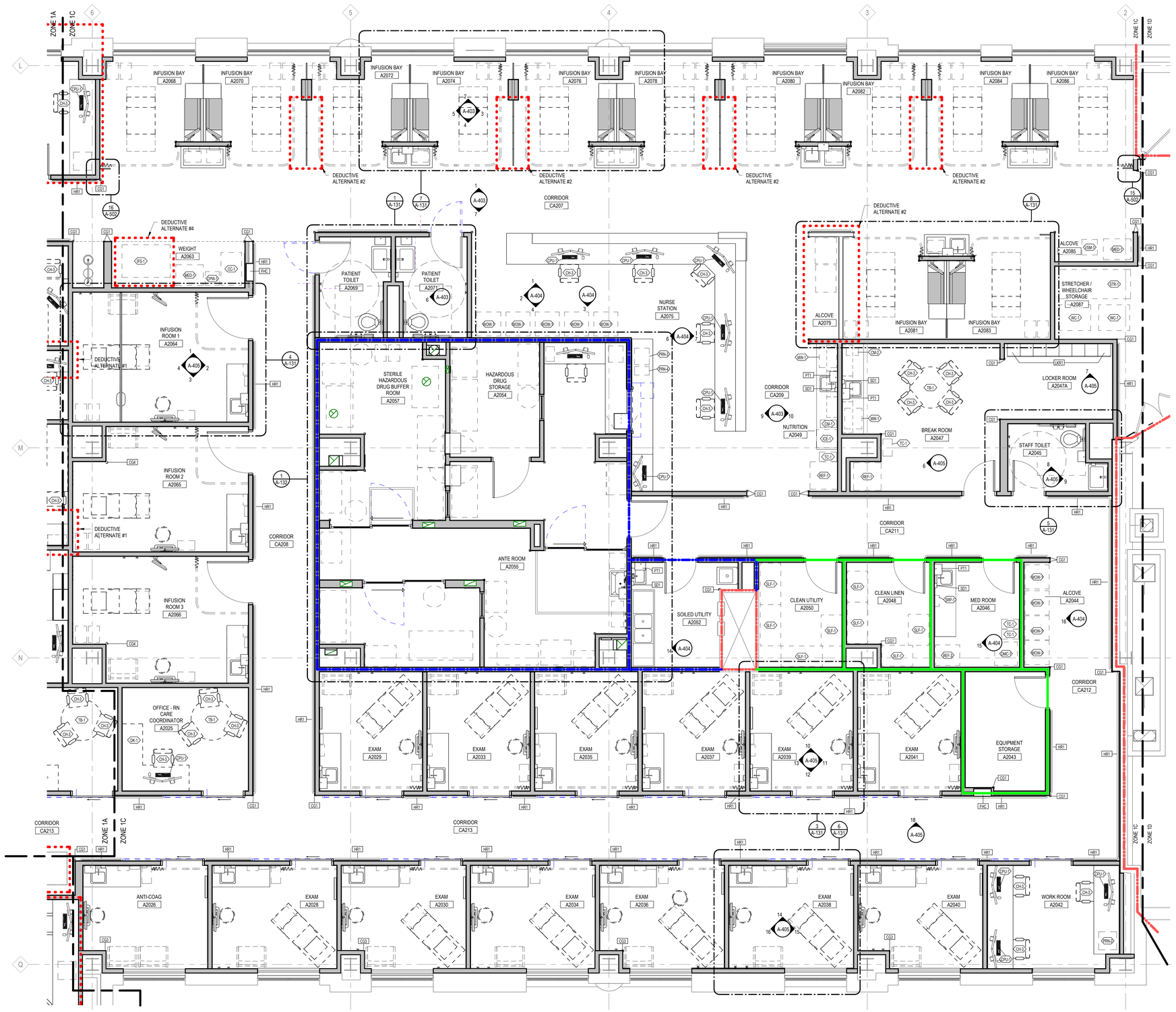

EQUIPMENT PLAN - SECOND LEVEL - ZONE 1C
1/4" = 1'-0"

SCHEDULE GENERAL NOTES

1. SEE REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT INFORMATION

ABBREVIATIONS

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- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
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- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

DIVISION 10 SCHEDULE

TAG	DESCRIPTION	BASIS OF DESIGN	AI	BLOCKING REQ'D	NOTES
CCT1	CUBICLE CURTAIN TRACK & CARRIERS (FAB-1, SEE INTERIOR MATERIALS SCHEDULE)	-	C C	NO	NOTES: 1, 2
CG1	CORNER GUARD, 3" H (NEUTRAL)	INPRO	C C	NO	<varies>
CG2	CORNER GUARD, 3" H (BLUE)	INPRO	C C	NO	NOTES: 1, 4
CG3	CORNER GUARD, 3" H (GREEN)	CS GROUP	C C	NO	NOTES: 1, 4
CG4	CORNER GUARD, 3" H (BLUE PATTERNED)	INPRO	C C	NO	NOTES: 1, 5
CG5	CORNER GUARD, FULL HEIGHT (NEUTRAL)	INPRO	C C	NO	<varies>
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CG7	STAINLESS STEEL, FULL HEIGHT	INPRO	C C	NO	NOTES: 1, 3
CH1	HAT & COAT HOOK	BRADLEY, MODEL 9124	C C	YES	
FHC	FIRE HOSE CABINET, RECESSED	-	C C	NO	
GB1	18" GRAB BAR	-	C C	YES	
GB2	42" GRAB BAR	-	C C	YES	
GB3	36" GRAB BAR	-	C C	YES	
HR1	HANDRAIL, WALL PROTECTION & BUMPER RAIL	INPRO	C C	YES	NOTES: 1, 6
HS1	HAND SANITIZER	-	V C	YES	
LKR1	LOCKER	-	C C	YES	
LKR2	LOCKER	-	C C	YES	
MB1	MAGNETIC MARKERBOARD, 2' X 3'	-	C C	YES	
MB2	MAGNETIC WHITE BOARD, 4' X 6'	-	C C	YES	
MR1	24" x 36" MIRROR	-	C C	YES	
PT1	PAPER TOWEL DISPENSER	-	V C	YES	
SD1	SOAP DISPENSER	-	V C	YES	
SND	SANITARY NAPKIN DISPOSAL	-	V C	YES	
TTD1	TOILET TISSUE DISPENSER	-	V C	YES	

DIVISION 10 - NOTES LEGEND

1. SEE MATERIALS SCHEDULE
2. CUBICLE CURTAIN - V C
3. 150 HIGH IMPACT CORNER GUARD; IF TWO ARE SHOWN ON A CORNER TO BE STAINLESS STEEL FLUSH MOUNT END WALL PROTECTOR (2" WINGS, STAINLESS STEEL, SATIN FINISH)
4. ACROVYN, SM-20 CORNER GUARD
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6. 800 HANDRAIL, 500 BUMPER; COLOR TO BE SLATE 0237

FURNITURE & EQUIPMENT SCHEDULE

TAG	DESCRIPTION	UTILITIES	AI	BLOCKING REQ'D	NOTES
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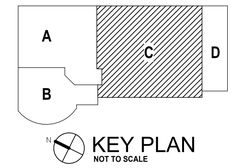
BW-1	BLANKET WARMER	E	V V	NO	
CC-1	CRASH CART	-	V V	NO	
CD-1	EAR CUP DISPENSER	-	V C	NO	
CH-1	CHAIR	-	V V	NO	
CH-2	CHAIR	-	V V	NO	
CH-3	CHAIR	-	V V	NO	
CM-1	COFFEE MAKER - TALL	E	V V	NO	
CM-2	COFFEE MAKER - SHORT	E	V V	NO	
CPU-1	COMPUTER WORKSTATION	E, D	V V	NO	
CPU-2	COMPUTER, WALL MOUNTED	E, D	V V	YES	
CPW-1	CHEMOTHERAPY PPE WASTE	-	V V	NO	
CRT-1	CART, PPE	-	V V	NO	
DISP-1	MAGNETIC BULK DISPENSER	-	V C	YES	
DK-1	DESK	-	V V	NO	
EMP-1	EQUIPMENT MOUNTING PANEL	-	V C	YES	
ET-1	EXAM TABLE	-	V V	NO	
GL-1	WIRE GLOVE BOX HOLDER	N	V C	YES	
HD1-72	LAMINAR FLOW	E	V C	NO	
HD2-48	BIOLOGICAL SAFETY CABINET - CLASS II, TYPE A2	E, M	V C	NO	
HW-1	HAZARDOUS TRASH - 12 GALLON - BLACK	-	V V	NO	
HW-2	HAZARDOUS TRASH - 19 GALLON - YELLOW	-	V V	NO	
ICE-1	COUNTER ICE MAKER	E, P	V V	NO	
IFS-1	IN-FLOOR SCALE	E	C C	NO	NOTE: 1
IR-1	INFUSION RECLINER	E	V V	NO	
MBC-1	MOBILE L BASE CABINET	-	V V	NO	
MED-1	MEDICAL SUPPLY CART	-	V V	NO	
MON-2	PATIENT TV, WALL MOUNTED	E	V V	YES	
MW-1	MICROWAVE	E	V V	NO	
OMC-1	OMNICELL MED MACHINE	E, D	V V	NO	
OT-1	OTOSCOPE/OPTHALMOSCOPE, WALL MTD.	E	V C	NO	
PL-1	CEILING MOUNTED PATIENT LIFT, SOLE SOURCED	E	C C	YES	
PPT-1	PHARMACY PASS THROUGH - CLEAN ROOM	E	C C	NO	
PRN-1	PRINTER - FLOOR	E, D	V V	NO	
PRN-2	MULTI-FUNCTIONAL DEVICE - COUNTERTOP	E	V V	NO	
PRN-3	PRINTER - XEROX VERSALINK B600	E, D	V V	NO	
PRN-4	ZEBRA BAR CODE PRINTER	E, D	V V	NO	
REF-1	REFRIGERATOR	E	V V	NO	
REF-2	REFRIGERATOR - PHARMACY	E	V V	NO	
REF-3	REFRIGERATOR - MEDICATION	E	V V	NO	
SHR-1	SHREDDER BOX	-	V V	NO	
SLF-1	SHELVING, MOBILE	-	V V	NO	
SPH-1	SPHYGMOMANOMETER, WALL MOUNTED	-	V C	NO	
SRP-1	SHARPS CONTAINER	-	V C	YES	
ST-1	EXAM STOOL	-	V V	NO	
STR-1	STRETCHER	-	V V	NO	
TB-1	TABLE	-	V V	NO	
TB-2	TABLE, MOBILE	-	V V	NO	
TC-1	TRASH CAN	-	V V	NO	
THM-1	THERMOMETER	-	V C	NO	
TV-1	TV AND TV BRACKET	E, D	V C	NO	
VSM-1	VITAL SIGNS MONITOR - MOBILE	-	V V	NO	
WC-1	WHEELCHAIR	-	V V	NO	
WOW-1	WOW	E	V V	NO	

FURNITURE & EQUIPMENT - NOTES LEGEND

1. BASIS OF DESIGN:
   - MANUFACTURER: SR INSTRUMENTS, INC
   - MODEL: SR463R-3
   - FLUSH MOUNTED PLATFORM SCALE
   - PLATFORM SIZE: 32" X 50"
   - MAX WEIGHT: 1000LB
   - WALL MOUNTED DISPLAY WITH LED BACKLIGHT
     1. DISPLAY TO OFFER MEMORY RECALL
     2. DISPLAY UNITS: POUNDS / KILOGRAMS
   - WALL MOUNTED BUILT-IN PRINTER
   - POWER: 120VAC 50-60Hz
   - SCALE TO AUTOMATICALLY TURN ON
   - BUILT-IN GRAB BAR
   - WARRANTY: MINIMUM 4 YEARS



KEY PLAN
NOT TO SCALE

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: EQUIPMENT PLAN - SECOND LEVEL - ZONE 1C
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-122.1C

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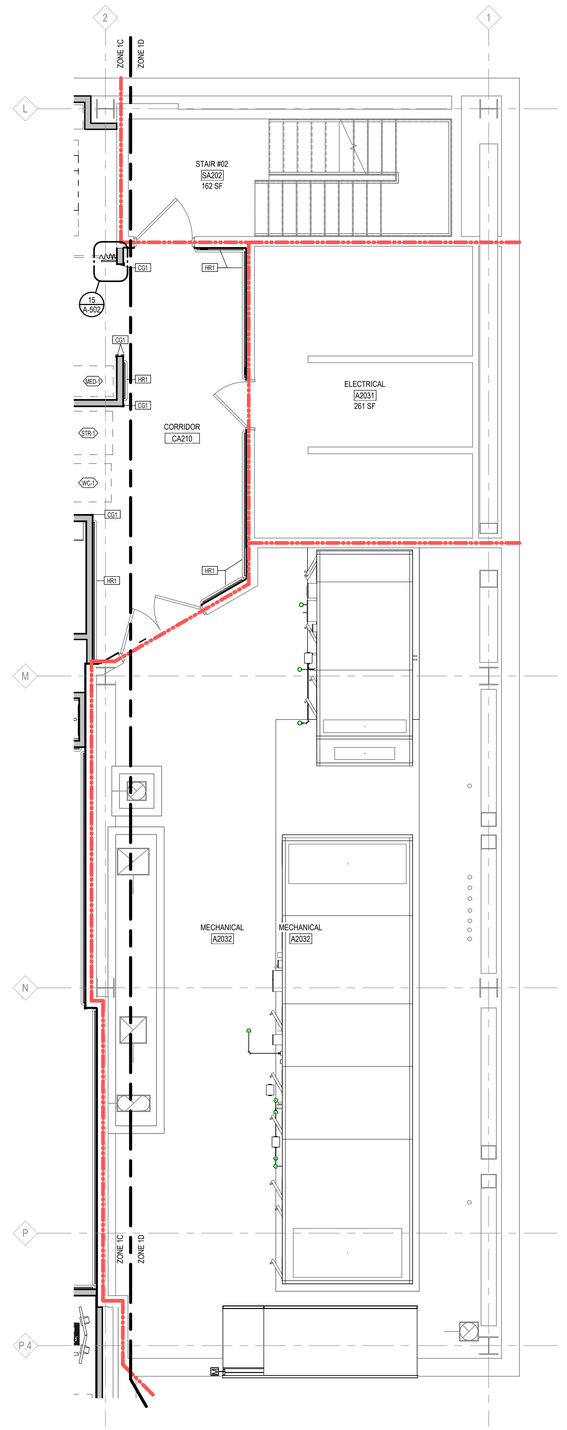


EQUIPMENT PLAN - SECOND LEVEL - ZONE 1D
1/4" = 1'-0"

SCHEDULE GENERAL NOTES

1. SEE REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT INFORMATION

ABBREVIATIONS

AI - ACQUISITION AND INSTALLATION
C C - CONTRACTOR FURNISHED AND INSTALLED
D - DATA
E - ELECTRICAL
M - MECHANICAL
P - PLUMBING
N - NONE
V C - GOVERNMENT FURNISHED, CONTRACTOR INSTALLED
V V - GOVERNMENT FURNISHED AND INSTALLED

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

DIVISION 10 SCHEDULE

TAG	DESCRIPTION	BASIS OF DESIGN	AI	BLOCKING REQ'D	NOTES
CCT1	CUBICLE CURTAIN TRACK & CARRIERS (FAB-1, SEE INTERIOR MATERIALS SCHEDULE)	-	C C	NO	NOTES: 1, 2
CG1	CORNER GUARD, 3' H (NEUTRAL)	INPRO	C C	NO	<varies>
CG2	CORNER GUARD, 3' H (BLUE)	INPRO	C C	NO	NOTES: 1, 4
CG3	CORNER GUARD, 3' H (GREEN)	CS GROUP	C C	NO	NOTES: 1, 4
CG4	CORNER GUARD, 3' H (BLUE PATTERNED)	INPRO	C C	NO	NOTES: 1, 5
CG5	CORNER GUARD, FULL HEIGHT (NEUTRAL)	INPRO	C C	NO	<varies>
CG6	CORNER GUARD, FULL HEIGHT (BLUE)	CS GROUP	C C	NO	NOTES: 1, 4
CG7	STAINLESS STEEL, FULL HEIGHT	INPRO	C C	NO	NOTES: 1, 3
CH1	HAT & COAT HOOK	BRADLEY, MODEL 9124	C C	YES	
FHC	FIRE HOSE CABINET, RECESSED	-	C C	NO	
GB1	18" GRAB BAR	-	C C	YES	
GB2	42" GRAB BAR	-	C C	YES	
GB3	36" GRAB BAR	-	C C	YES	
HR1	HANDRAIL, WALL PROTECTION & BUMPER RAIL	INPRO	C C	YES	NOTES: 1, 6
HS1	HAND SANITIZER	-	V C	YES	
LKR1	LOCKER	-	C C	YES	
LKR2	LOCKER	-	C C	YES	
MB1	MAGNETIC MARKERBOARD, 2' X 3'	-	C C	YES	
MB2	MAGNETIC WHITE BOARD, 4' X 6'	-	C C	YES	
MR1	24" x 36" MIRROR	-	C C	YES	
PT1	PAPER TOWEL DISPENSER	-	V C	YES	
SD1	SOAP DISPENSER	-	V C	YES	
SND	SANITARY NAPKIN DISPOSAL	-	V C	YES	
TTD1	TOILET TISSUE DISPENSER	-	V C	YES	

DIVISION 10 - NOTES LEGEND

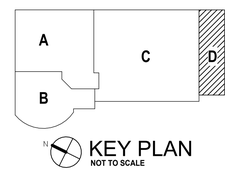
1. SEE MATERIALS SCHEDULE
2. CUBICLE CURTAIN - V C
3. 150 HIGH IMPACT CORNER GUARD; IF TWO ARE SHOWN ON A CORNER TO BE STAINLESS STEEL FLUSH MOUNT END WALL PROTECTOR (2" WINGS, STAINLESS STEEL, SATIN FINISH)
4. ACROVYN, SM-20 CORNER GUARD
5. PALLADIUM, 150 HIGH IMPACT CORNER GUARD
6. 800 HANDRAIL, 500 BUMPER; COLOR TO BE SLATE 0237

FURNITURE & EQUIPMENT SCHEDULE

TAG	DESCRIPTION	UTILITIES	AI	BLOCKING REQ'D	NOTES
BCH-1	BENCH, MOBILE	-	V V	NO	
BW-1	BLANKET WARMER	E	V V	NO	
CC-1	CRASH CART	-	V V	NO	
CD-1	EAR CUP DISPENSER	-	V C	NO	
CH-1	CHAIR	-	V V	NO	
CH-2	CHAIR	-	V V	NO	
CH-3	CHAIR	-	V V	NO	
CM-1	COFFEE MAKER - TALL	E	V V	NO	
CM-2	COFFEE MAKER - SHORT	E	V V	NO	
CPU-1	COMPUTER WORKSTATION	E, D	V V	NO	
CPU-2	COMPUTER, WALL MOUNTED	E, D	V V	YES	
CPW-1	CHEMOTHERAPY PPE WASTE	-	V V	NO	
CRT-1	CART, PPE	-	V V	NO	
DISP-1	MAGNETIC BULK DISPENSER	-	V C	YES	
DK-1	DESK	-	V V	NO	
EMP-1	EQUIPMENT MOUNTING PANEL	-	V C	YES	
ET-1	EXAM TABLE	-	V V	NO	
GL-1	WIRE GLOVE BOX HOLDER	N	V C	YES	
H01-72	LAMINAR FLOW	E	V C	NO	
H02-48	BIOLOGICAL SAFETY CABINET - CLASS II, TYPE A2	E, M	V C	NO	
HW-1	HAZARDOUS TRASH - 12 GALLON - BLACK	-	V V	NO	
HW-2	HAZARDOUS TRASH - 19 GALLON - YELLOW	-	V V	NO	
ICE-1	COUNTER ICE MAKER	E, P	V V	NO	
IFS-1	IN-FLOOR SCALE	E	C C	NO	NOTE: 1
IR-1	INFUSION RECLINER	E	V V	NO	
MBC-1	MOBILE L BASE CABINET	-	V V	NO	
MED-1	MEDICAL SUPPLY CART	-	V V	NO	
MON-2	PATIENT TV, WALL MOUNTED	E	V V	YES	
MW-1	MICROWAVE	E	V V	NO	
OMC-1	OMNICELL MED MACHINE	E, D	V V	NO	
OT-1	OTOSCOPE/OPTHALMOSCOPE, WALL MTD.	E	V C	NO	
PL-1	CEILING MOUNTED PATIENT LIFT, SOLE SOURCED	E	C C	YES	
PPT-1	PHARMACY PASS THROUGH - CLEAN ROOM	E	C C	NO	
PRN-1	PRINTER - FLOOR	E, D	V V	NO	
PRN-2	MULTI-FUNCTIONAL DEVICE - COUNTERTOP	E	V V	NO	
PRN-3	PRINTER - XEROX VERSALINK B600	E, D	V V	NO	
PRN-4	ZEBRA BAR CODE PRINTER	E, D	V V	NO	
REF-1	REFRIGERATOR	E	V V	NO	
REF-2	REFRIGERATOR - PHARMACY	E	V V	NO	
REF-3	REFRIGERATOR - MEDICATION	E	V V	NO	
SHR-1	SHREDDER BOX	-	V V	NO	
SLF-1	SHELVING, MOBILE	-	V V	NO	
SPH-1	SPHYGMOMANOMETER, WALL MOUNTED	-	V C	NO	
SRP-1	SHARPS CONTAINER	-	V C	YES	
ST-1	EXAM STOOL	-	V V	NO	
STR-1	STRETCHER	-	V V	NO	
TB-1	TABLE	-	V V	NO	
TB-2	TABLE, MOBILE	-	V V	NO	
TC-1	TRASH CAN	-	V V	NO	
THM-1	THERMOMETER	-	V C	NO	
TV-1	TV AND TV BRACKET	E, D	V C	NO	
VSM-1	VITAL SIGNS MONITOR - MOBILE	-	V V	NO	
WC-1	WHEELCHAIR	-	V V	NO	
WOW-1	WOW	E	V V	NO	

FURNITURE & EQUIPMENT - NOTES LEGEND

1. BASIS OF DESIGN:
   - MANUFACTURER: SR INSTRUMENTS, INC
   - MODEL: SR463IR-3
   - FLUSH MOUNTED PLATFORM SCALE
   - PLATFORM SIZE: 32" X 50"
   - MAX WEIGHT: 1000LB
   - WALL MOUNTED DISPLAY WITH LED BACKLIGHT
     1. DISPLAY TO OFFER MEMORY RECALL
     2. DISPLAY UNITS: POUNDS / KILOGRAMS
   - WALL MOUNTED BUILT-IN PRINTER
   - POWER: 120VAC 50-60Hz
   - SCALE TO AUTOMATICALLY TURN ON
   - BUILT-IN GRAB BAR
   - WARRANTY: MINIMUM 4 YEARS



100% BID DOCUMENTS	10-JAN-2025
Revisions:	Date:

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Office of Construction and Facilities Management
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Drawing Title: **EQUIPMENT PLAN - SECOND LEVEL - ZONE 1D**
Approved:

Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED

Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **KJH**
Drawn: **MRB**

Project Number: **553-21-100**
Building Number:
Drawing Number: **A-122.1D**

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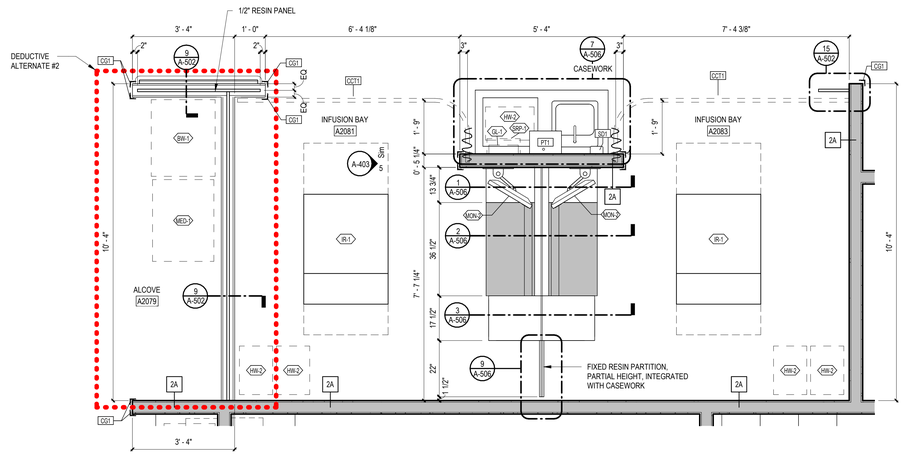
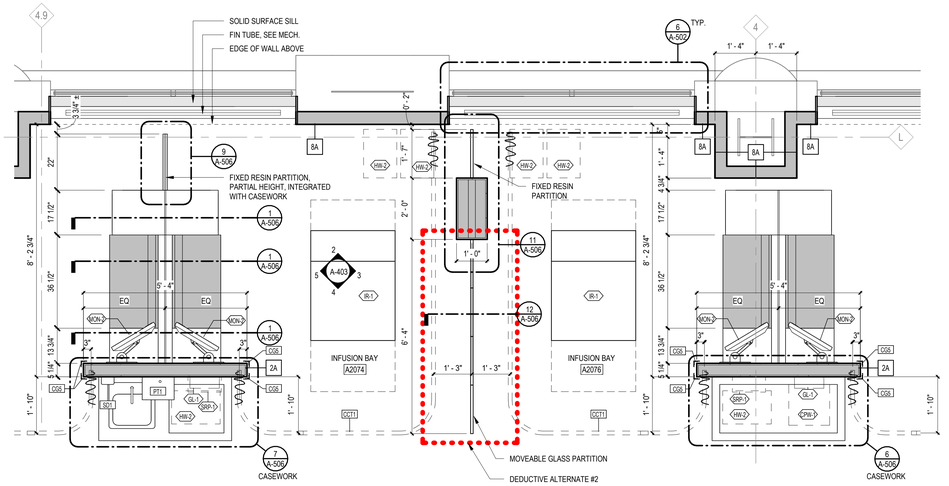


8 A-102.1C **INFUSION BAY - A2081 A2083**
1/2" = 1'-0"

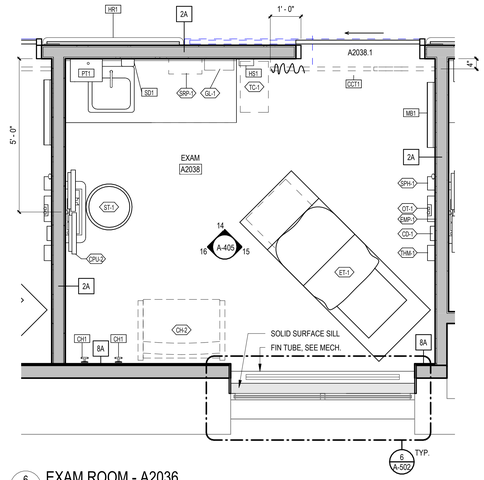


7 A-102.1C **INFUSION BAY - A2074 & A2076**
1/2" = 1'-0"

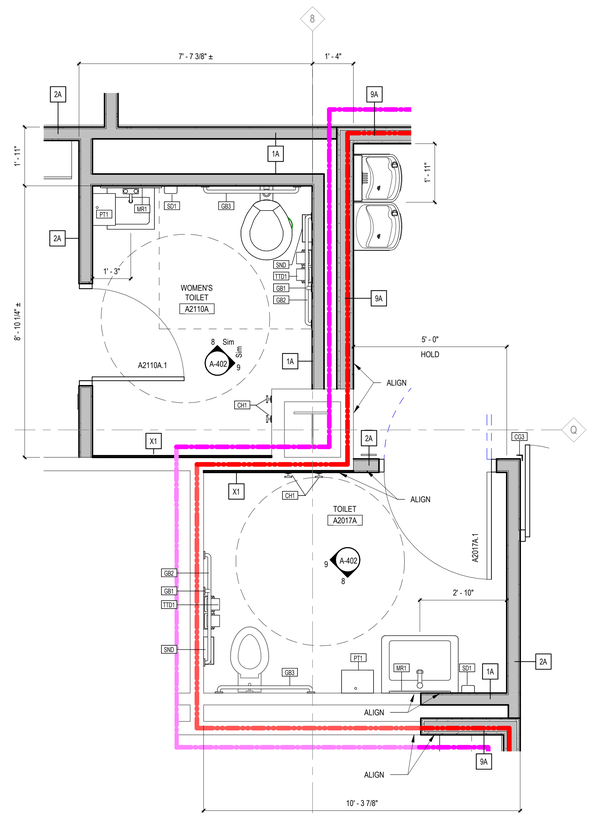
PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

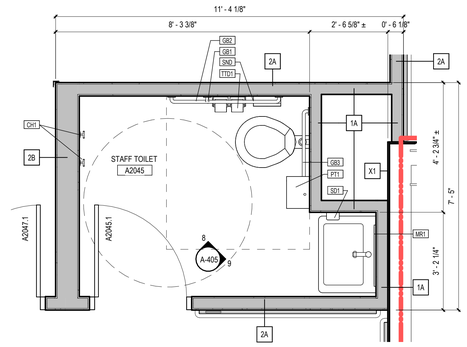
NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D



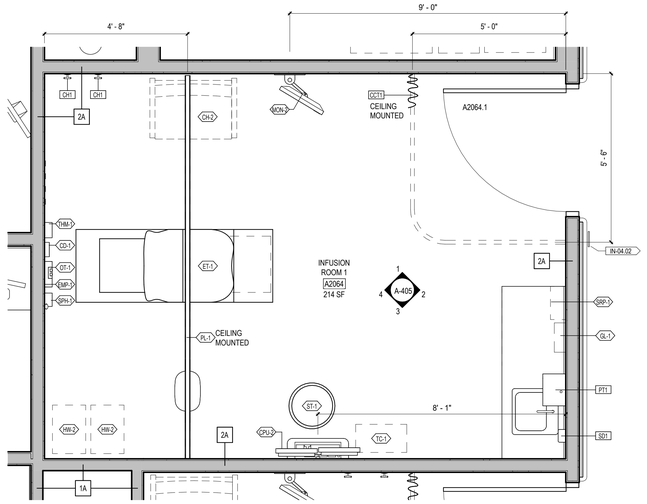
6 A-102.1C **EXAM ROOM - A2036**
1/2" = 1'-0"



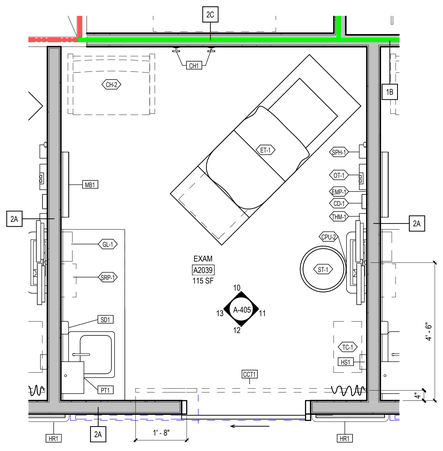
2 A-102.1B **TOILET ROOMS - A2110A & A2017A**
1/2" = 1'-0"



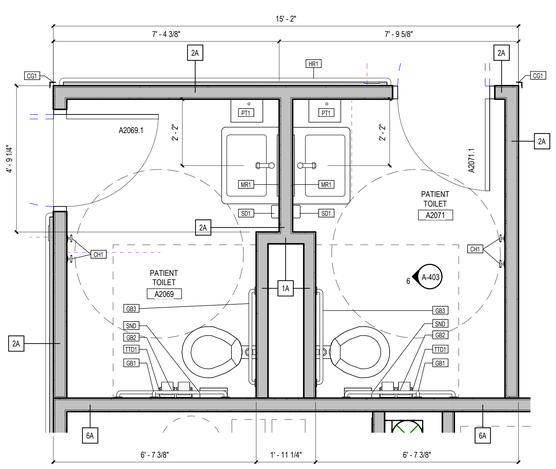
5 A-102.1C **STAFF TOILET - A2045**
1/2" = 1'-0"



4 A-102.1C **INFUSION ROOM 1 - A2064**
1/2" = 1'-0"



3 A-102.1C **EXAM - A2039**
1/2" = 1'-0"



1 A-102.1C **PATIENT TOILET - A2069 & A2071**
1/2" = 1'-0"

Revisions:	Date:
100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
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Drawing Title: **ENLARGED PLANS**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **KJH**
Drawn: **MRB**
Project Number: **553-21-100**
Building Number:
Drawing Number: **A-131**

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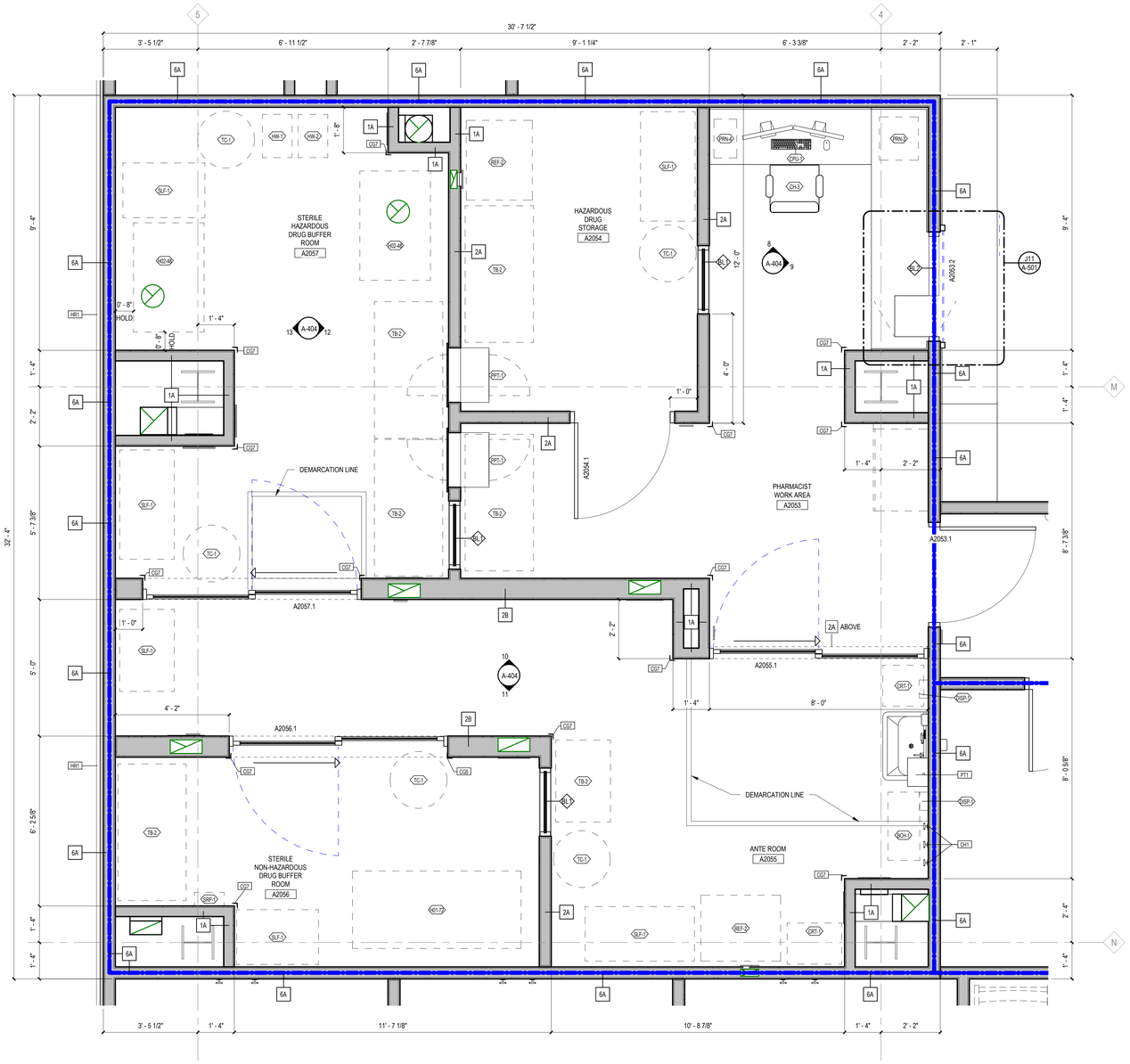

1 A-102.1C ENLARGED PLAN - SATELLITE PHARMACY
1/2" = 1'-0"

SCHEDULE GENERAL NOTES

1. SEE REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT INFORMATION

ABBREVIATIONS

AI - ACQUISITION AND INSTALLATION
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M - MECHANICAL
P - PLUMBING
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V V - GOVERNMENT FURNISHED AND INSTALLED

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- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

DIVISION 10 SCHEDULE

TAG	DESCRIPTION	BASIS OF DESIGN	AI	BLOCKING REQ'D	NOTES
CCT1	CUBICLE CURTAIN TRACK & CARRIERS (FAB-1, SEE INTERIOR MATERIALS SCHEDULE)	-	C C	NO	NOTES: 1, 2
CG1	CORNER GUARD, 3' H (NEUTRAL)	INPRO	C C	NO	<varies>
CG2	CORNER GUARD, 3' H (BLUE)	INPRO	C C	NO	NOTES: 1, 4
CG3	CORNER GUARD, 3' H (GREEN)	CS GROUP	C C	NO	NOTES: 1, 4
CG4	CORNER GUARD, 3' H (BLUE PATTERNED)	INPRO	C C	NO	NOTES: 1, 5
CG5	CORNER GUARD, FULL HEIGHT (NEUTRAL)	INPRO	C C	NO	<varies>
CG6	CORNER GUARD, FULL HEIGHT (BLUE)	CS GROUP	C C	NO	NOTES: 1, 4
CG7	STAINLESS STEEL, FULL HEIGHT	INPRO	C C	NO	NOTES: 1, 3
CH1	HAT & COAT HOOK	BRADLEY, MODEL 9124	C C	YES	
FHC	FIRE HOSE CABINET, RECESSED	-	C C	NO	
GB1	18" GRAB BAR	-	C C	YES	
GB2	42" GRAB BAR	-	C C	YES	
GB3	36" GRAB BAR	-	C C	YES	
HR1	HANDRAIL, WALL PROTECTION & BUMPER RAIL	INPRO	C C	YES	NOTES: 1, 6
HS1	HAND SANITIZER	-	V C	YES	
LKR1	LOCKER	-	C C	YES	
LKR2	LOCKER	-	C C	YES	
MB1	MAGNETIC MARKERBOARD, 2' X 3'	-	C C	YES	
MB2	MAGNETIC WHITE BOARD, 4' X 6'	-	C C	YES	
MR1	24" x 36" MIRROR	-	C C	YES	
PT1	PAPER TOWEL DISPENSER	-	V C	YES	
SD1	SOAP DISPENSER	-	V C	YES	
SND	SANITARY NAPKIN DISPOSAL	-	V C	YES	
TTD1	TOILET TISSUE DISPENSER	-	V C	YES	

DIVISION 10 - NOTES LEGEND

1. SEE MATERIALS SCHEDULE
2. CUBICLE CURTAIN - V C
3. 150 HIGH IMPACT CORNER GUARD; IF TWO ARE SHOWN ON A CORNER TO BE STAINLESS STEEL FLUSH MOUNT END WALL PROTECTOR (2" WINGS, STAINLESS STEEL, SATIN FINISH)
4. ACROVYN, SM-20 CORNER GUARD
5. PALLADIUM, 150 HIGH IMPACT CORNER GUARD
6. 800 HANDRAIL, 500 BUMPER; COLOR TO BE SLATE 0237

FURNITURE & EQUIPMENT SCHEDULE

TAG	DESCRIPTION	UTILITIES	AI	BLOCKING REQ'D	NOTES
BCH-1	BENCH, MOBILE	-	V V	NO	
BW-1	BLANKET WARMER	E	V V	NO	
CC-1	CRASH CART	-	V V	NO	
CD-1	EAR CUP DISPENSER	-	V C	NO	
CH-1	CHAIR	-	V V	NO	
CH-2	CHAIR	-	V V	NO	
CH-3	CHAIR	-	V V	NO	
CM-1	COFFEE MAKER - TALL	E	V V	NO	
CM-2	COFFEE MAKER - SHORT	E	V V	NO	
CPU-1	COMPUTER WORKSTATION	E, D	V V	NO	
CPU-2	COMPUTER, WALL MOUNTED	E, D	V V	YES	
CPW-1	CHEMOTHERAPY PPE WASTE	-	V V	NO	
CRT-1	CART, PPE	-	V V	NO	
DISP-1	MAGNETIC BULK DISPENSER	-	V C	YES	
DK-1	DESK	-	V V	NO	
EMP-1	EQUIPMENT MOUNTING PANEL	-	V C	YES	
ET-1	EXAM TABLE	-	V V	NO	
GL-1	WIRE GLOVE BOX HOLDER	N	V C	YES	
H01-72	LAMINAR FLOW	E	V C	NO	
H02-48	BIOLOGICAL SAFETY CABINET - CLASS II, TYPE A2	E, M	V C	NO	
HW-1	HAZARDOUS TRASH - 12 GALLON - BLACK	-	V V	NO	
HW-2	HAZARDOUS TRASH - 19 GALLON - YELLOW	-	V V	NO	
ICE-1	COUNTER ICE MAKER	E, P	V V	NO	
IFS-1	IN-FLOOR SCALE	E	C C	NO	NOTE: 1
IR-1	INFUSION RECLINER	E	V V	NO	
MBC-1	MOBILE L BASE CABINET	-	V V	NO	
MED-1	MEDICAL SUPPLY CART	-	V V	NO	
MON-2	PATIENT TV, WALL MOUNTED	E	V V	YES	
MW-1	MICROWAVE	E	V V	NO	
OMC-1	OMNICELL MED MACHINE	E, D	V V	NO	
OT-1	OTOSCOPE/OPTHALMOSCOPE, WALL MTD.	E	V C	NO	
PL-1	CEILING MOUNTED PATIENT LIFT, SOLE SOURCED	E	C C	YES	
PPT-1	PHARMACY PASS THROUGH - CLEAN ROOM	E	C C	NO	
PRN-1	PRINTER - FLOOR	E, D	V V	NO	
PRN-2	MULTI-FUNCTIONAL DEVICE - COUNTERTOP	E	V V	NO	
PRN-3	PRINTER - XEROX VERSALINK B600	E, D	V V	NO	
PRN-4	ZEBRA BAR CODE PRINTER	E, D	V V	NO	
REF-1	REFRIGERATOR	E	V V	NO	
REF-2	REFRIGERATOR - PHARMACY	E	V V	NO	
REF-3	REFRIGERATOR - MEDICATION	E	V V	NO	
SHR-1	SHREDDER BOX	-	V V	NO	
SLF-1	SHELVING, MOBILE	-	V V	NO	
SPH-1	SPHYGMOMANOMETER, WALL MOUNTED	-	V C	NO	
SRP-1	SHARPS CONTAINER	-	V C	YES	
ST-1	EXAM STOOL	-	V V	NO	
STR-1	STRETCHER	-	V V	NO	
TB-1	TABLE	-	V V	NO	
TB-2	TABLE, MOBILE	-	V V	NO	
TC-1	TRASH CAN	-	V V	NO	
THM-1	THERMOMETER	-	V C	NO	
TV-1	TV AND TV BRACKET	E, D	V C	NO	
VSM-1	VITAL SIGNS MONITOR - MOBILE	-	V V	NO	
WC-1	WHEELCHAIR	-	V V	NO	
WOW-1	WOW	E	V V	NO	

FURNITURE & EQUIPMENT - NOTES LEGEND

1. BASIS OF DESIGN:
   - MANUFACTURER: SR INSTRUMENTS, INC
   - MODEL: SR463R-3
   - FLUSH MOUNTED PLATFORM SCALE
   - PLATFORM SIZE: 32" X 50"
   - MAX WEIGHT: 1000LB
   - WALL MOUNTED DISPLAY WITH LED BACKLIGHT
     1. DISPLAY TO OFFER MEMORY RECALL
     2. DISPLAY UNITS: POUNDS / KILOGRAMS
   - WALL MOUNTED BUILT-IN PRINTER
   - POWER: 120VAC 50-60Hz
   - SCALE TO AUTOMATICALLY TURN ON
   - BUILT-IN GRAB BAR
   - WARRANTY: MINIMUM 4 YEARS

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED PLANS - PHARMACY
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-132

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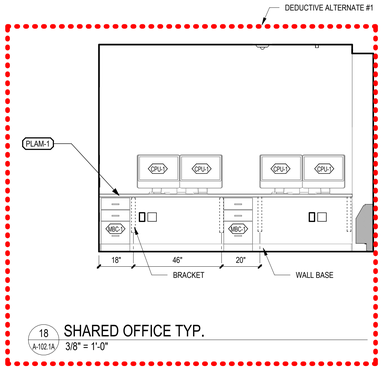
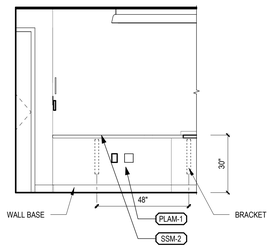
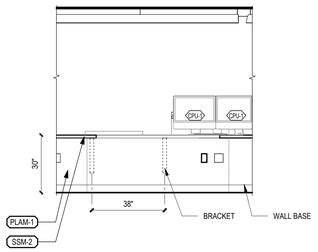


18 A-102.1A SHARED OFFICE TYP.
3/8" = 1'-0"



17 A-102.1A CHECK-IN/ CHECK-OUT DESK INTERIOR - SOUTH
3/8" = 1'-0"



16 A-102.1A CHECK-IN/ CHECK-OUT DESK INTERIOR - SOUTHWEST
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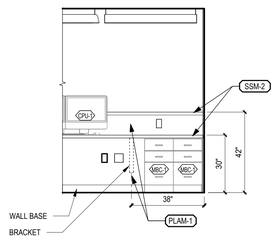

15 A-102.1A CHECK-IN/ CHECK-OUT DESK INTERIOR - WEST 1
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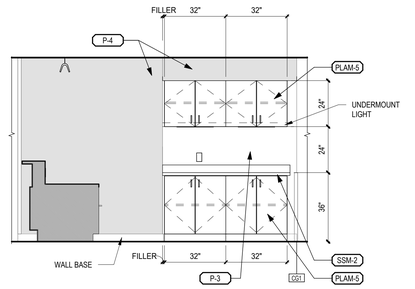

14 A-102.1A CHECK-IN/ CHECK-OUT DESK INTERIOR - NORTH
3/8" = 1'-0"

MILLWORK GENERAL NOTES

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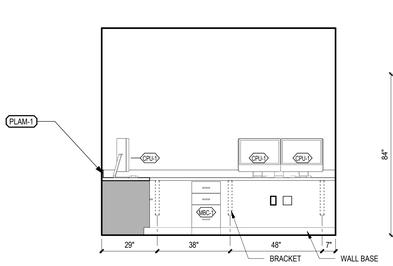
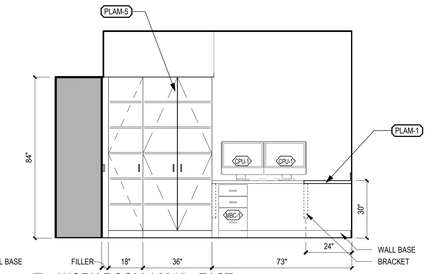
9. ALL FULL HEIGHT CABINETS SHALL BE 25"D, UNO
10. PROVIDE SEALANT AT ALL EDGES WHERE COUNTERTOP, SIDESPLASH OR BACKSPLASH ABUT ADJACENT SURFACES



13 A-102.1A WORK ROOM A2015 - SOUTH
3/8" = 1'-0"



12 A-102.1A WORK ROOM A2015 - EAST
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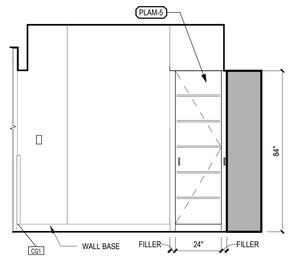

11 A-102.1A WORK ROOM A2015 - NORTH
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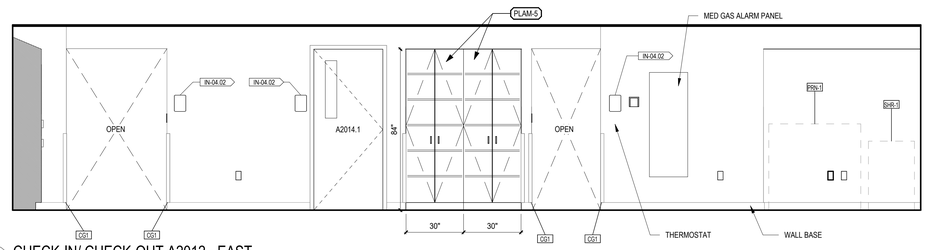
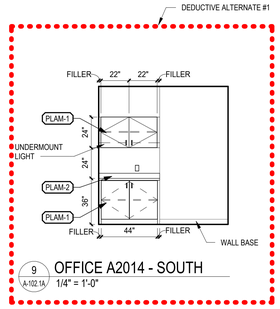
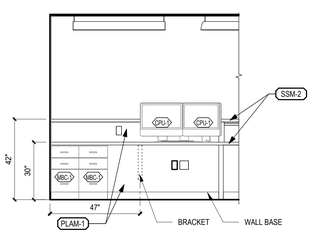


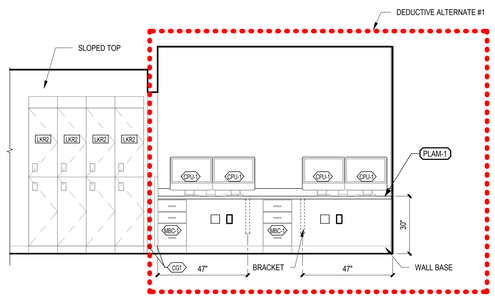
10 A-102.1A CHECK-IN/ CHECK-OUT A2012 - EAST
3/8" = 1'-0"



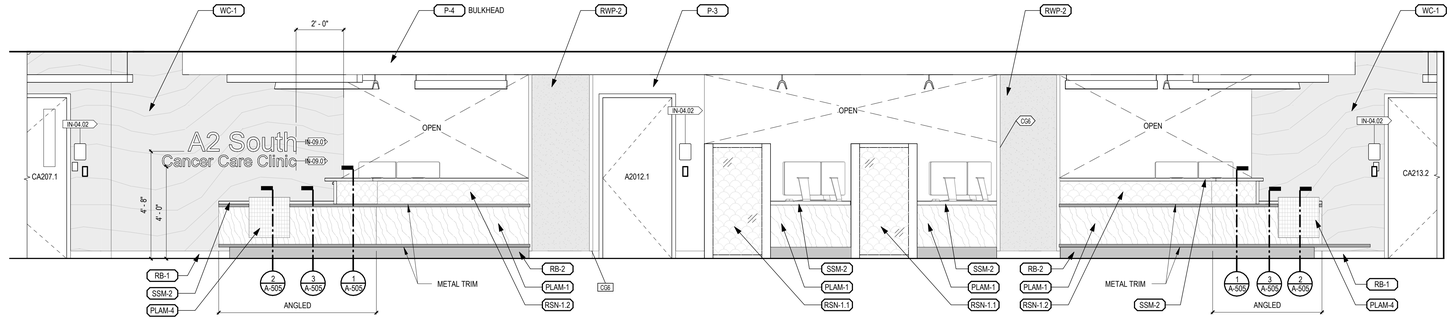
9 A-102.1A OFFICE A2014 - SOUTH
1/4" = 1'-0"



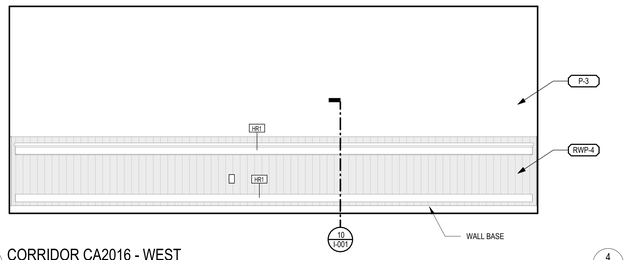
8 A-102.1A CHECK-IN/ CHECK-OUT DESK INTERIOR - WEST 2
3/8" = 1'-0"



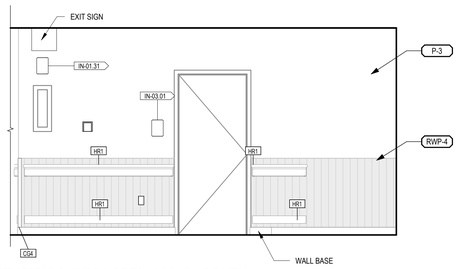
7 A-102.1A WORK ROOM A2013 - NORTH
3/8" = 1'-0"



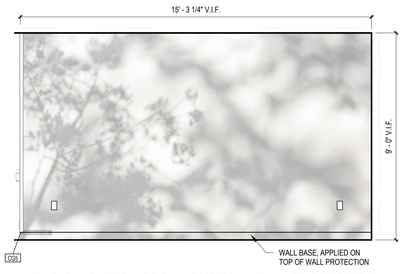
6 A-102.1A CORRIDOR CA2016 - EAST
3/8" = 1'-0"



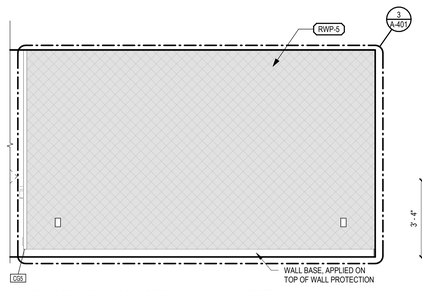
5 A-102.1A CORRIDOR CA2016 - WEST
3/8" = 1'-0"



4 A-102.1A INFUSION CLINIC LOBBY A2011 - SOUTH
3/8" = 1'-0"



3 A-401 INFUSION CLINIC LOBBY - CUSTOM WALL PROTECTION
3/8" = 1'-0"



2 A-102.1A INFUSION CLINIC LOBBY A2011 - WEST
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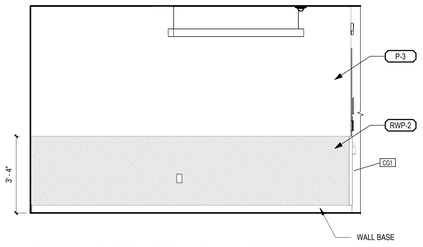

1 A-102.1A INFUSION CLINIC LOBBY A2011- NORTH
3/8" = 1'-0"

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

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Drawing Title: INTERIOR ELEVATIONS - ZONE 1A
Phase: 100% BID DOCUMENTS
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Project Number: 553-21-100
Building Number:
Approved:
FULLY SPRINKLERED
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: CJA / MRB
Drawing Number: A-401

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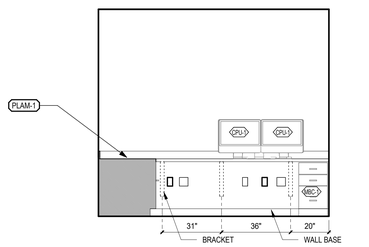
10. PROVIDE SEALANT AT ALL EDGES WHERE COUNTERTOP, SIDESPLASH OR BACKSPLASH ABUT ADJACENT SURFACES

DEDUCTIVE ALTERNATE #1



16 A-102.1B — SHARED OFFICE A2108 - WEST
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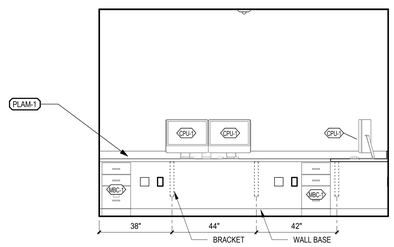
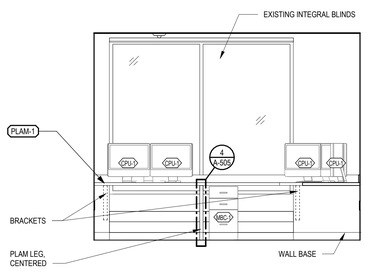


15 A-102.1B — SHARED OFFICE A2108 - SOUTH
3/8" = 1'-0"

DEDUCTIVE ALTERNATE #1



14 A-102.1B — SHARED OFFICE A2020 - SOUTH
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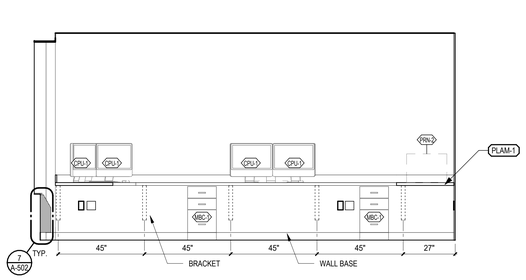
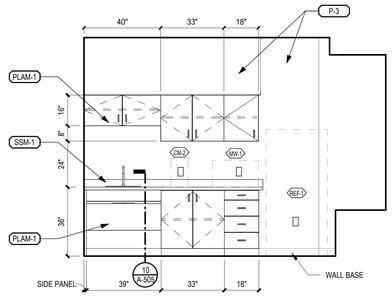


13 A-102.1B — SHARED OFFICE A2020 - WEST
3/8" = 1'-0"



12 A-102.1B — BREAK ROOM A2114 - EAST
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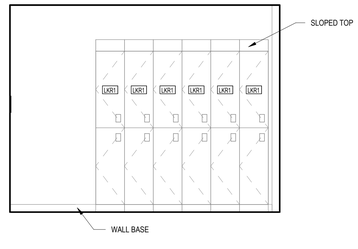
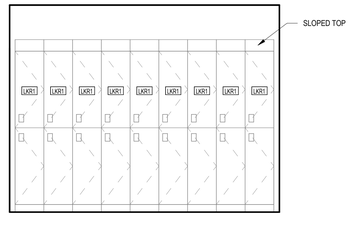
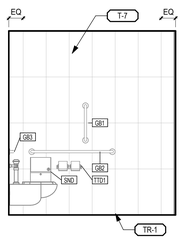


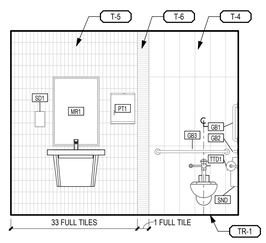
11 A-102.1B — WOMEN'S LOCKERS A2110 - SOUTH
3/8" = 1'-0"



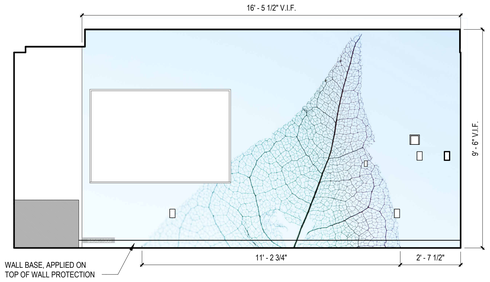
10 A-102.1B — WOMEN'S LOCKERS A2110 - NORTH
3/8" = 1'-0"



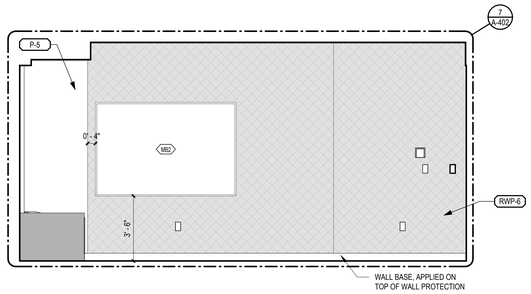
9 A-102.1B — TOILET A2017A - WEST
3/8" = 1'-0"



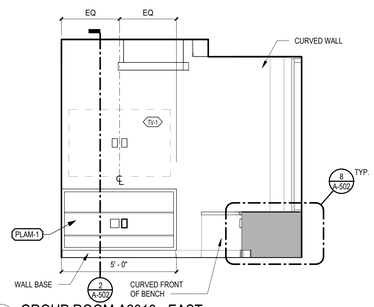
8 A-102.1B — TOILET A2017A - SOUTH
3/8" = 1'-0"



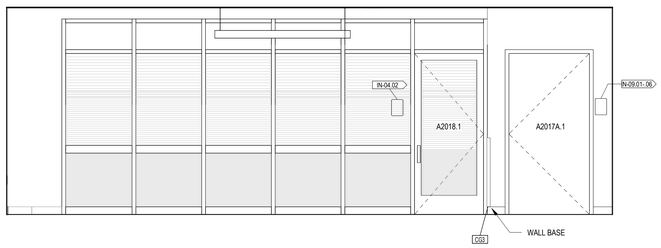
7 A-402 — GROUP ROOM - CUSTOM WALL PROTECTION
3/8" = 1'-0"



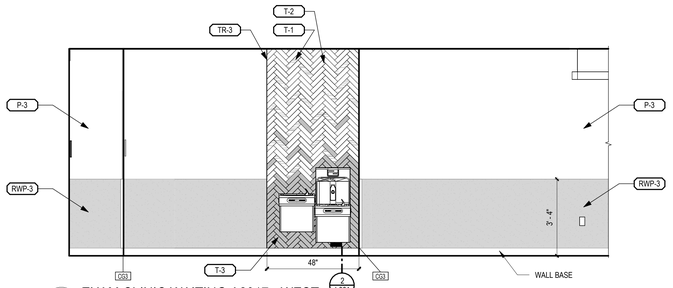
6 A-102.1B — GROUP ROOM A2018 - WEST
3/8" = 1'-0"



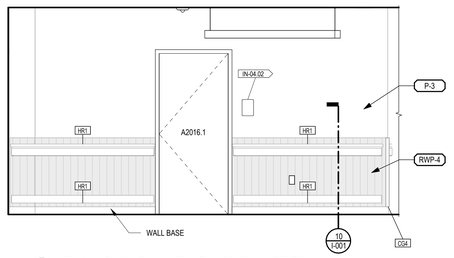
5 A-102.1B — GROUP ROOM A2018 - EAST
3/8" = 1'-0"



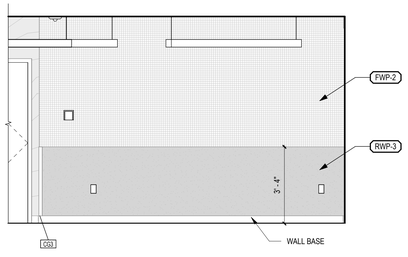
4 A-102.1B — EXAM CLINIC WAITING A2017 - SOUTH
3/8" = 1'-0"



3 A-102.1A — EXAM CLINIC WAITING A2017 - WEST
3/8" = 1'-0"



2 A-102.1A — EXAM CLINIC WAITING A2017 - NORTH
3/8" = 1'-0"



1 A-102.1B — EXAM CLINIC WAITING A2017 - EAST
3/8" = 1'-0"

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

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

Drawing Title: INTERIOR ELEVATIONS - ZONE 1B
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: CJA / MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-402

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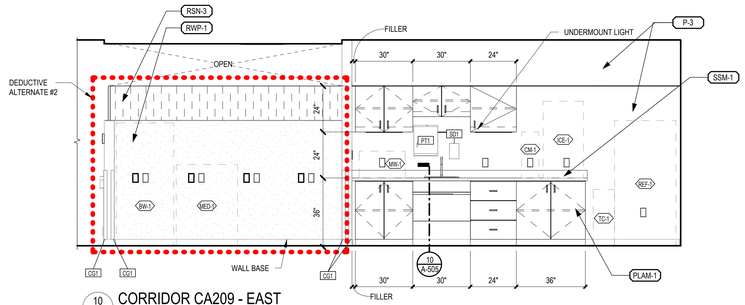
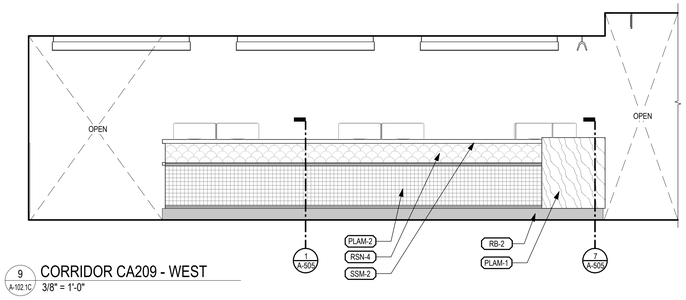
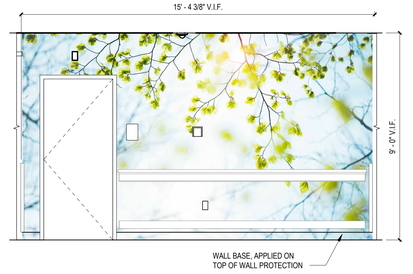


10 A-102.1C CORRIDOR CA209 - EAST
3/8" = 1'-0"



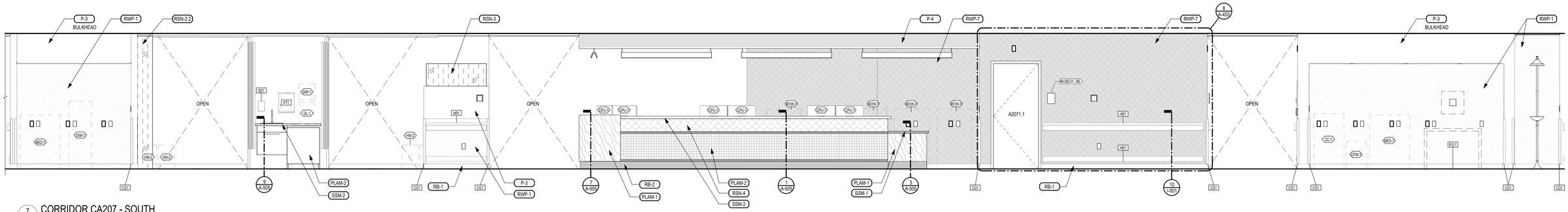
9 A-102.1C CORRIDOR CA209 - WEST
3/8" = 1'-0"



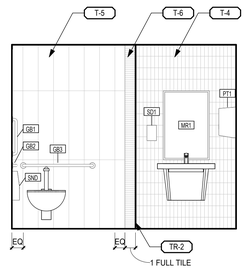
8 A-403 CORRIDOR CA207 SOUTH - CUSTOM WALL PROTECTION
3/8" = 1'-0"

MILLWORK GENERAL NOTES

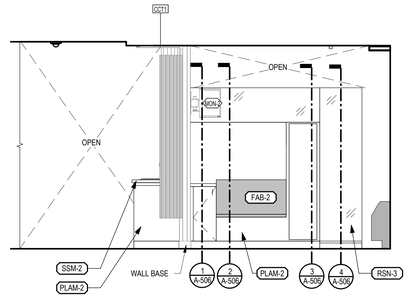
1. CONTRACTOR SHALL FIELD VERIFY ALL FINISHED DIMENSIONS PRIOR TO ORDERING / INSTALLATION.
2. ALL COUNTERTOP SUPPORT BRACKETS SHALL BE SPACED 42" O.C. MAX, UNO.
3. ALL EXPOSED SURFACES OF CABINETS ARE TO BE FINISHED, UNO
4. QUANTITY AND LOCATIONS OF GROMMETS TO BE COORDINATE WITH OWNER.
5. PROVIDE FILLER PIECE AT ALL LOCATIONS BETWEEN CABINET AND ADJACENT WALL OR CEILING. FILLER PIECE TO BE FLUSH WITH FACE OF CABINET AND SHALL MATCH MATERIAL AND FINISH OF CABINETS.
6. ALL COUNTERTOPS LOCATED ATOP BASE CABINETS TO HAVE 1" OVERHANG, UNO
7. ALL BASE CABINETS SHALL BE 24"D, UNO
8. ALL WALL CABINETS SHALL BE 15"D, UNO
9. ALL FULL HEIGHT CABINETS SHALL BE 25"D, UNO
10. PROVIDE SEALANT AT ALL EDGES WHERE COUNTERTOP, SIDESPLASH OR BACKSPLASH ABUT ADJACENT SURFACES



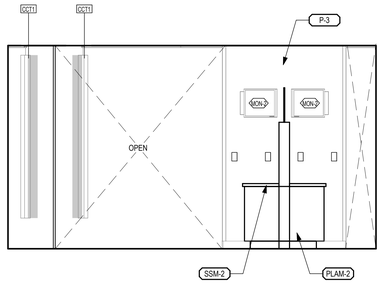
7 A102.1C CORRIDOR CA207 - SOUTH
3/8" = 1'-0"



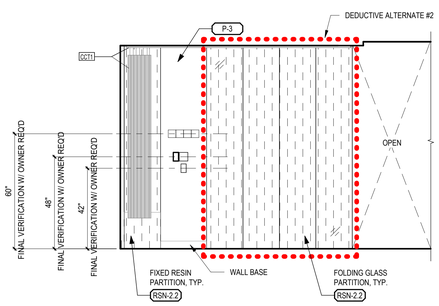
6 A102.1C PATIENT TOILET A2071 - WEST
3/8" = 1'-0"



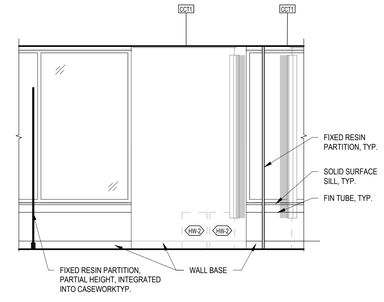
5 A-122.1C INFUSION BAY A2074 - WEST
3/8" = 1'-0"



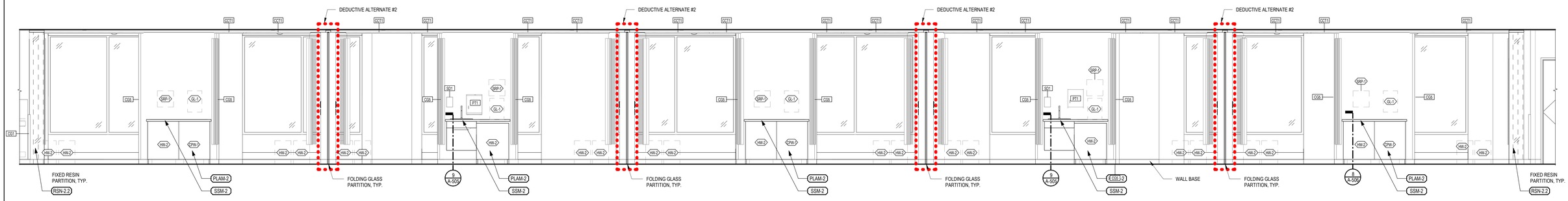
4 A-122.1C INFUSION BAY A2074 - SOUTH
3/8" = 1'-0"



3 A-122.1C INFUSION BAY A2074 - EAST
3/8" = 1'-0"



2 A-122.1C INFUSION BAY A2074 - NORTH
3/8" = 1'-0"



1 A102.1C CORRIDOR CA207 - NORTH
3/8" = 1'-0"

100% BID DOCUMENTS	10-JAN-2025
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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: **INTERIOR ELEVATIONS - ZONE 1C**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **KJH**
Drawn: **CJA / MRB**
Project Number: **553-21-100**
Building Number:
Drawing Number: **A-403**

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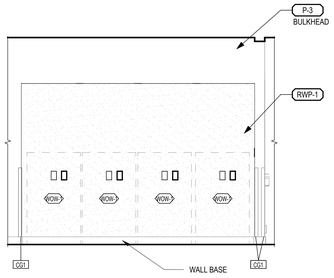
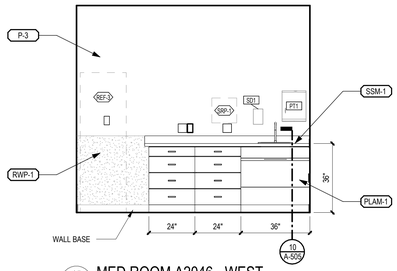
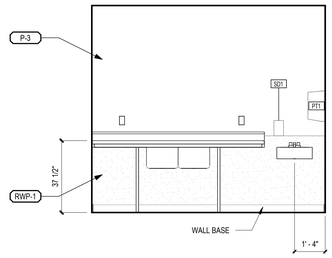


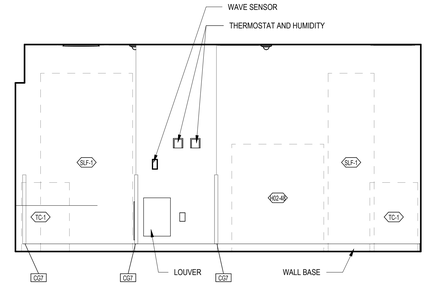
16 A-102.1C ALCOVE A2044 - WEST
3/8" = 1'-0"



15 A-102.1C MED ROOM A2046 - WEST
3/8" = 1'-0"



14 A-102.1C SOILED UTILITY A2052 - WEST
3/8" = 1'-0"



13 A-132 STERILE HAZARDOUS DRUG BUFFER ROOM A2057 - WEST
3/8" = 1'-0"

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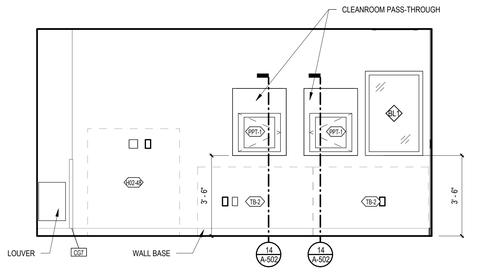
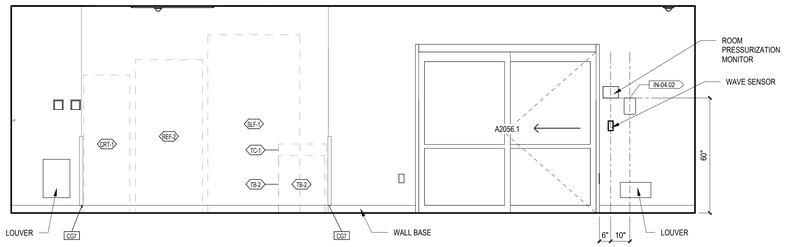
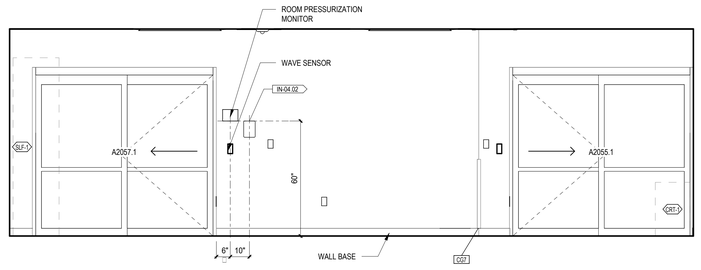
9. ALL FULL HEIGHT CABINETS SHALL BE 25"D, UNO
10. PROVIDE SEALANT AT ALL EDGES WHERE COUNTERTOP, SIDESPLASH OR BACKSPLASH ABUT ADJACENT SURFACES



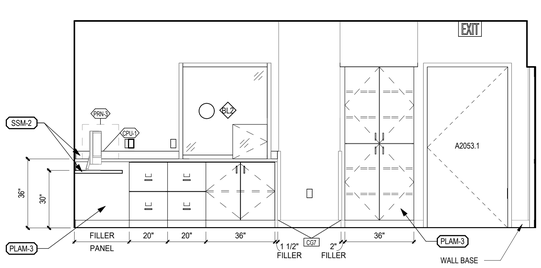
12 A-132 STERILE HAZARDOUS DRUG BUFFER ROOM A2057 - EAST
3/8" = 1'-0"



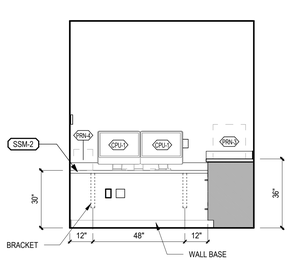
11 A-132 ANTE ROOM A2055 - SOUTH
3/8" = 1'-0"



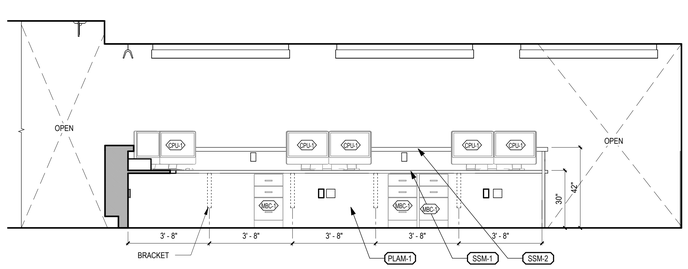
10 A-132 ANTE ROOM A2055 - NORTH
3/8" = 1'-0"



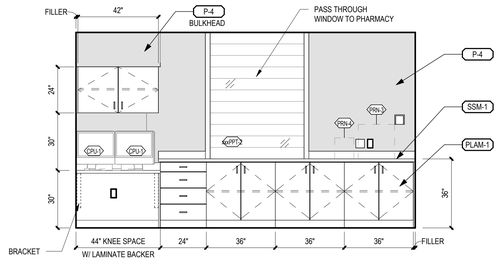
9 A-132 PHARMACIST WORK AREA A2053 - EAST
3/8" = 1'-0"



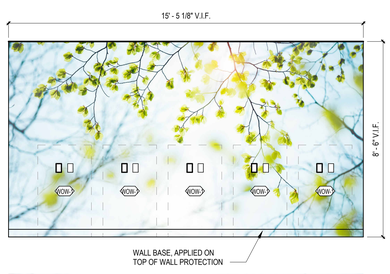
8 A-132 PHARMACIST WORK AREA A2053 - NORTH
3/8" = 1'-0"



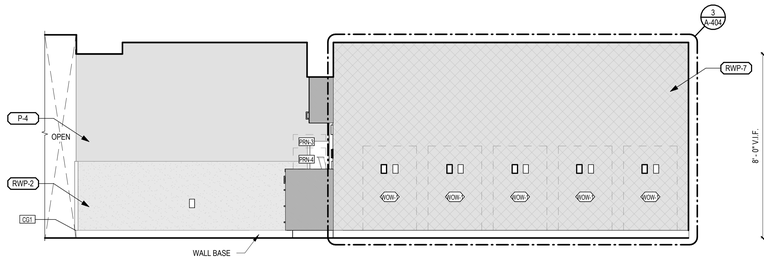
7 A-102.1C NURSE STATION INTERIOR A2075 - EAST
3/8" = 1'-0"



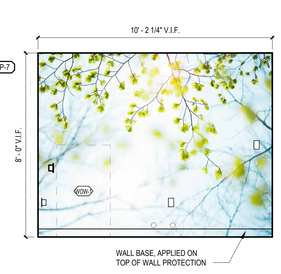
6 A-102.1C NURSE STATION INTERIOR A2075 - WEST 2
3/8" = 1'-0"



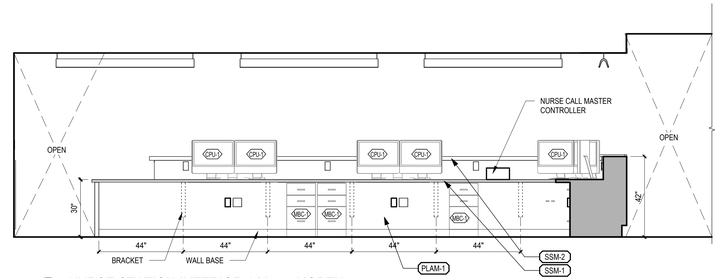
3 A-102.1C NURSE STATION INTERIOR A2075 SOUTH - CUSTOM WALL PROTECTION
3/8" = 1'-0"



4 A-102.1C NURSE STATION INTERIOR A2075 - SOUTH
3/8" = 1'-0"



2 A-102.1C NURSE STATION INTERIOR A2075 - WEST 1
3/8" = 1'-0"



1 A-102.1C NURSE STATION INTERIOR A2075 - NORTH
3/8" = 1'-0"

Revisions:	Date:
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Drawing Title: INTERIOR ELEVATIONS - ZONE 1C
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: CJA / MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-404

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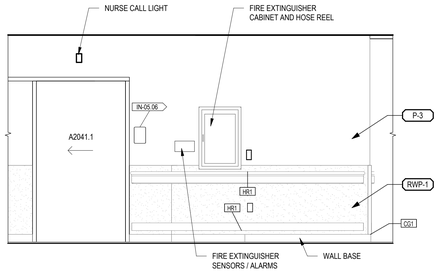
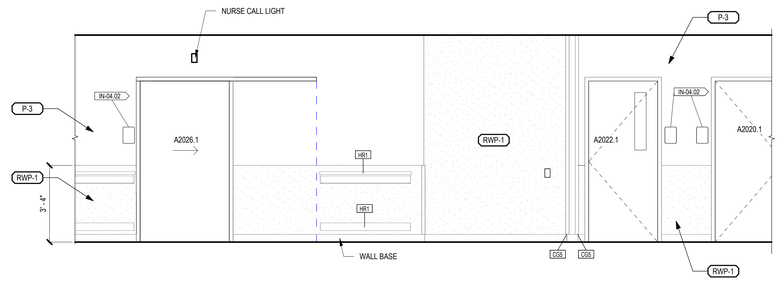


18 A-102.1C CORRIDOR CA213 - NORTH 2
3/8" = 1'-0"



17 A-102.1B CORRIDOR CA213 - SOUTH
3/8" = 1'-0"

MILLWORK GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL FINISHED DIMENSIONS PRIOR TO ORDERING / INSTALLATION.
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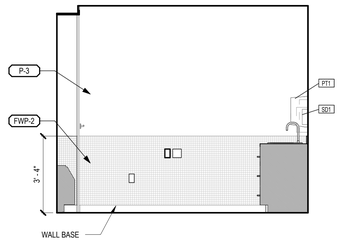
10. PROVIDE SEALANT AT ALL EDGES WHERE COUNTERTOP, SIDESPLASH OR BACKSPLASH ABUT ADJACENT SURFACES



16 A-102.1A EXAM A2038 - WEST
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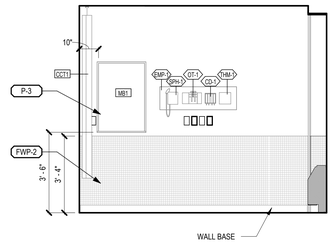

15 A-102.1A EXAM A2038 - EAST
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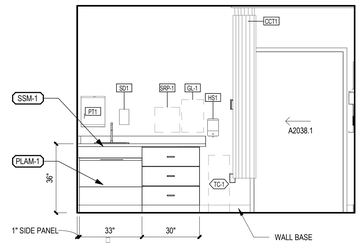
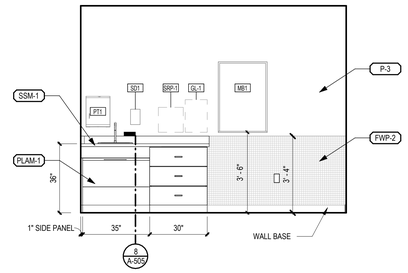


14 A-102.1A EXAM A2038 - NORTH
3/8" = 1'-0"



13 A-102.1A EXAM A2039 - WEST
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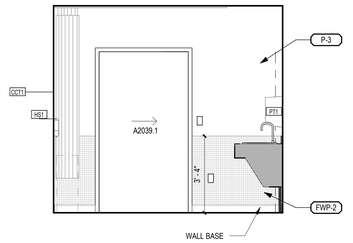

12 A-102.1A EXAM A2039 - SOUTH
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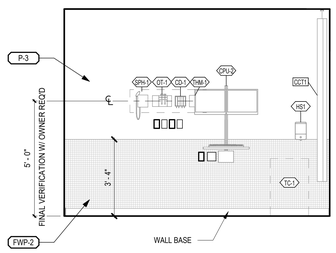

11 A-102.1A EXAM A2039 - EAST
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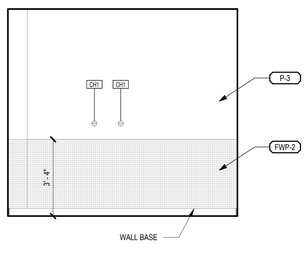

10 A-102.1A EXAM A2039 - NORTH
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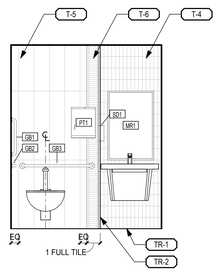

9 A-102.1C STAFF TOILET A2045 - EAST
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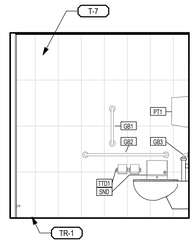

8 A-102.1C STAFF TOILET A2045 - NORTH
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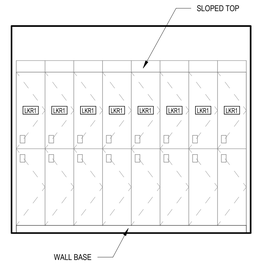

7 A-102.1C LOCKER ROOM A2047A - NORTH
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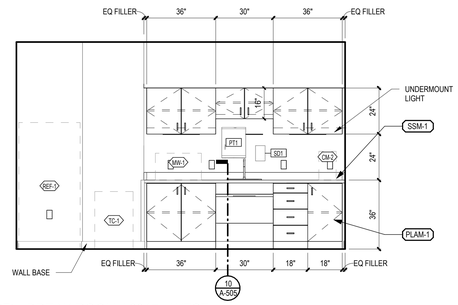

6 A-102.1C BREAK ROOM A2047 - WEST
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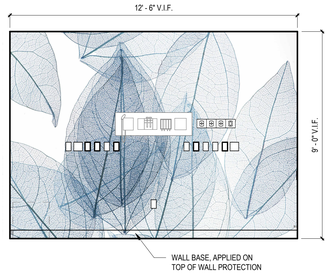
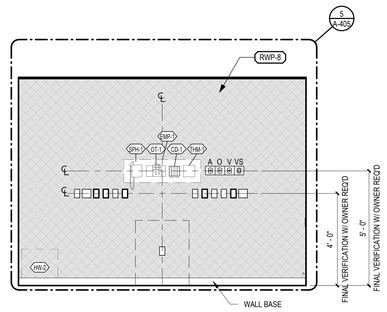
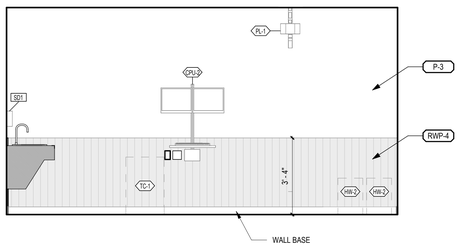


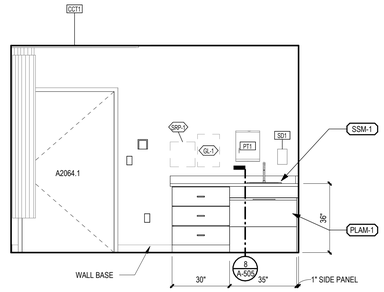
5 A-405 INFUSION ROOM - CUSTOM WALL PROTECTION
3/8" = 1'-0"



4 A-102.1A INFUSION ROOM A2064 - WEST
3/8" = 1'-0"



3 A-102.1A INFUSION ROOM A2064 - SOUTH
3/8" = 1'-0"



2 A-102.1A INFUSION ROOM A2064 - EAST
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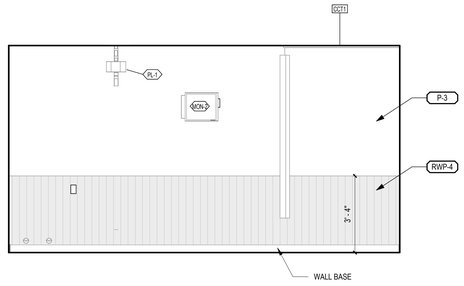

1 A-102.1A INFUSION ROOM A2064 - NORTH
3/8" = 1'-0"

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

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

Drawing Title: INTERIOR ELEVATIONS - ZONE 1C
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: CJA / MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-405

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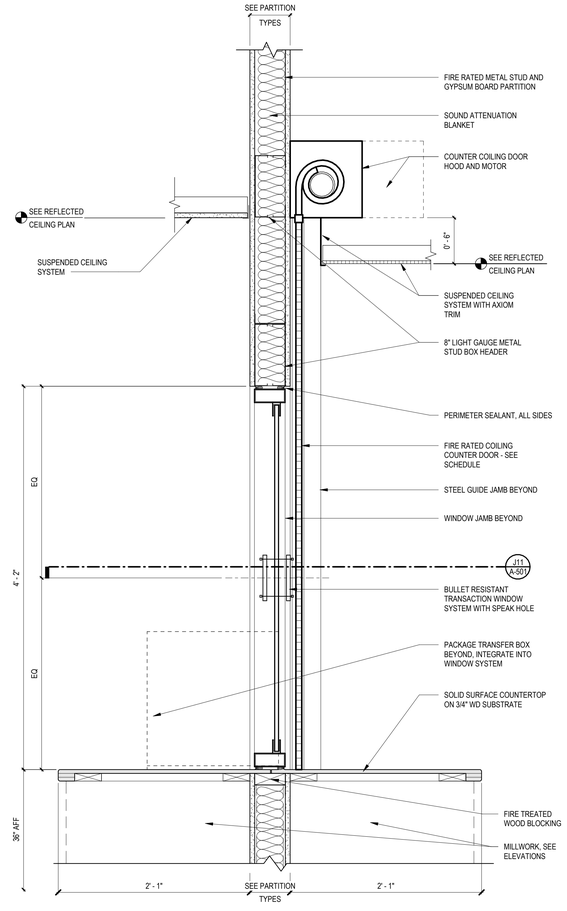
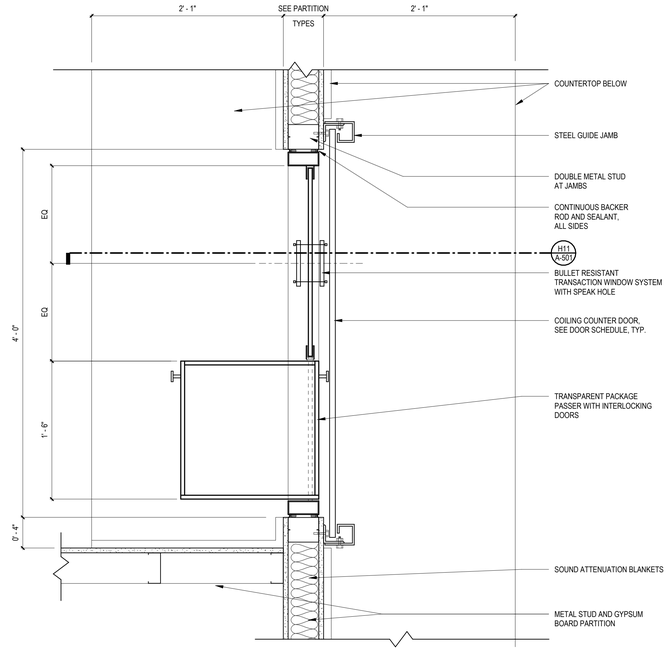
DETAILS RELATE TO SHEET A-601



H11 TRANSACTION COUNTER WITH BULLET RESISTANT WINDOW
1 1/2" = 1'-0"



J11 TRANSACTION WINDOW JAMB
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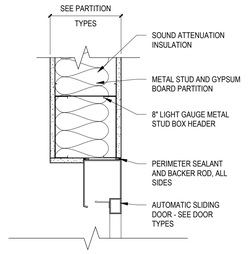
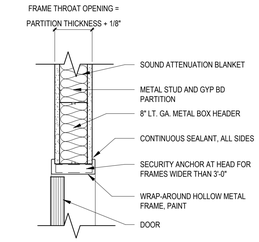
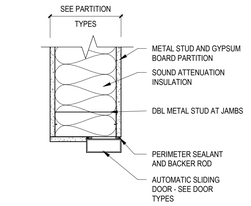


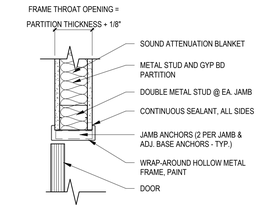
H8 SLIDING CLEAN ROOM - HEAD
1 1/2" = 1'-0"



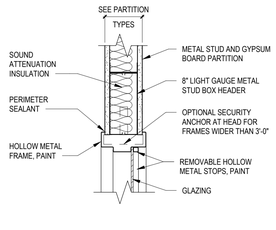
H7 HM DUAL ACTION FRAME- HEAD
1 1/2" = 1'-0"



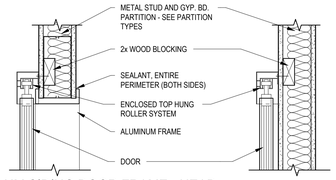
J8 SLIDING CLEAN ROOM - JAMB
1 1/2" = 1'-0"



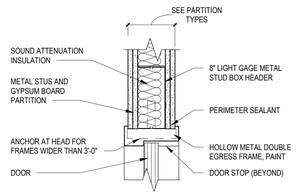
J7 HM DUAL ACTION FRAME - JAMB
1 1/2" = 1'-0"



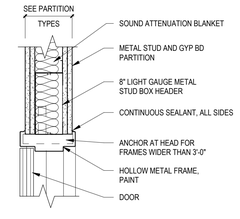
H6 HM BORROWED LITE HEAD
1 1/2" = 1'-0"



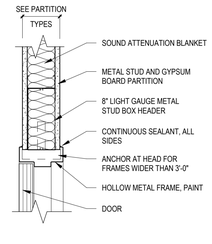
H5 TYP ALUM SIDING DOOR FRAME - HEAD
1 1/2" = 1'-0"



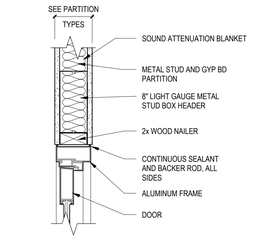
H4 HM FRAME DOUBLE EGRESS MODIFIED WALL - HEAD
1 1/2" = 1'-0"



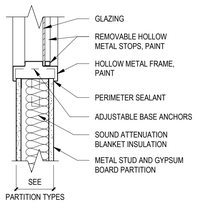
H3 HM FRAME AT METAL STUDS - HEAD
1 1/2" = 1'-0"



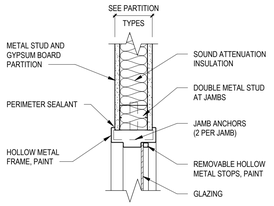
H2 HM FRAME AT METAL STUDS - HEAD
1 1/2" = 1'-0"



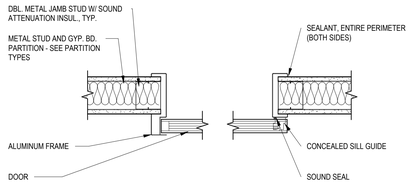
H1 ALUM FRAME AT METAL STUD - HEAD
1 1/2" = 1'-0"



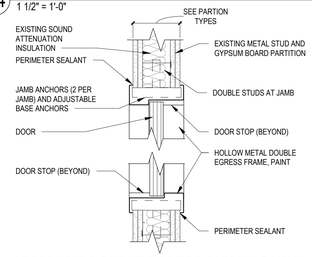
S1 HM BORROWED LITE SILL
1 1/2" = 1'-0"



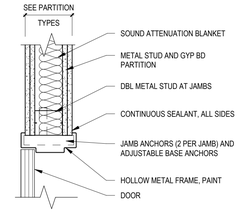
J6 HM BORROWED LITE JAMB
1 1/2" = 1'-0"



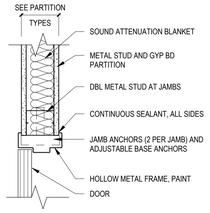
J5 TYP ALUM SIDING DOOR FRAME - JAMB
1 1/2" = 1'-0"



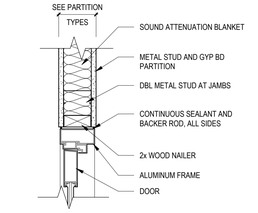
J4 HM FRAME DOUBLE EGRESS EXISTING WALL- JAMB
1 1/2" = 1'-0"



J3 HM FRAME AT METAL STUDS - JAMB
1 1/2" = 1'-0"



J2 HM FRAME AT METAL STUDS - JAMB
1 1/2" = 1'-0"



J1 ALUM FRAME AT METAL STUD - JAMB
1 1/2" = 1'-0"

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
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Drawing Title: **DETAILS**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **KJH**
Drawn: **MRB**
Project Number: **553-21-100**
Building Number:
Drawing Number: **A-501**

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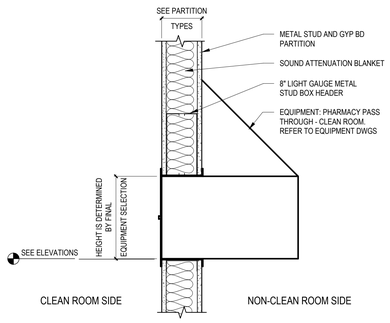
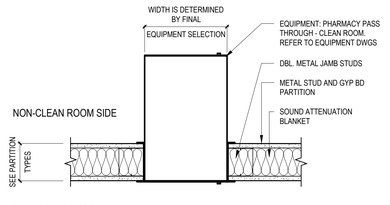
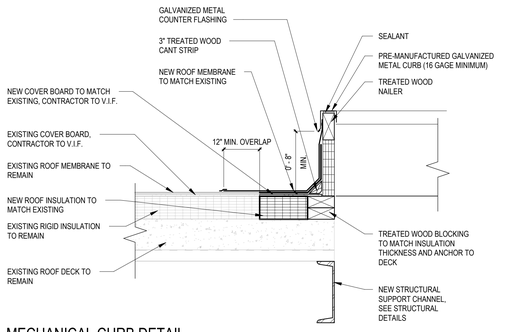


SECTION

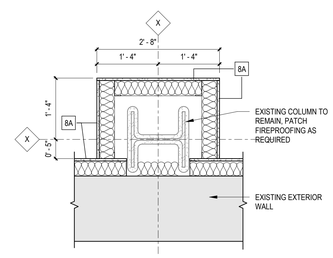


PLAN

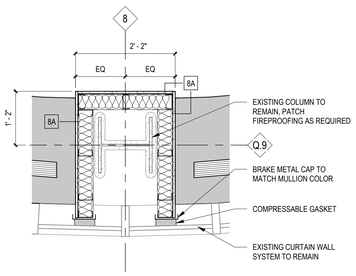
14 A-404 CLEAN ROOM PASS-THROUGH DETAIL
1 1/2" = 1'-0"



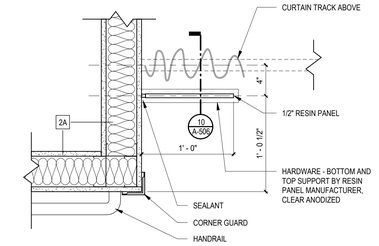
13 A-102.1D MECHANICAL CURB DETAIL
1 1/2" = 1'-0"



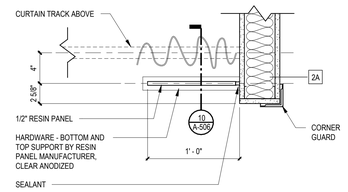
12 A-102.1A PLAN DETAIL - COLUMN ENCLOSURE, TYPICAL
3/4" = 1'-0"



11 A-102.1B PLAN DETAIL - COLUMN ENCLOSURE
3/4" = 1'-0"

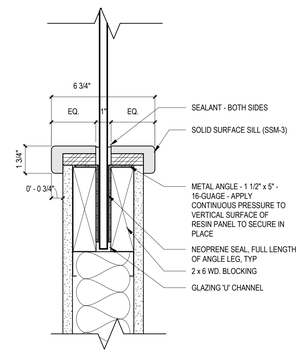


RESIN PANEL WING WALL DETAIL
NOT TO SCALE

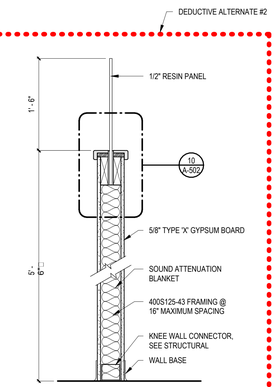


RESIN PANEL WING WALL DETAIL
NOT TO SCALE

DEDUCTIVE ALTERNATE #2



10 A-502 ENLARGED RESIN PANEL DETAIL
3" = 1'-0"

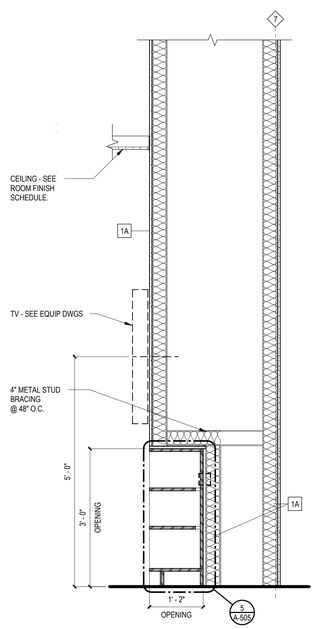


9 A-131 ALCOVE WALL SECTION
1" = 1'-0"

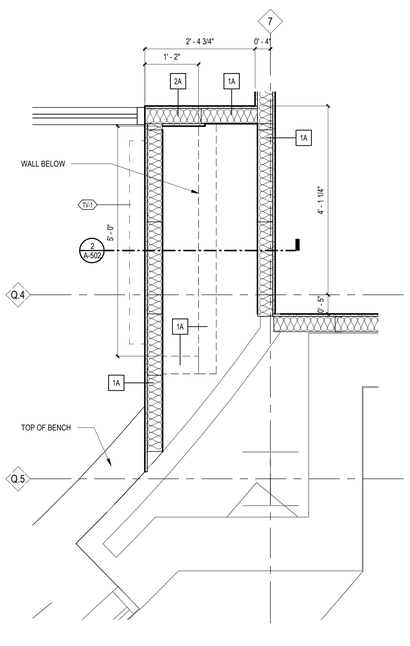
8 A-102.1A BENCH DETAIL @ EXTERIOR CURTAIN WALL
1 1/2" = 1'-0"

7 A-402 RADIATOR COVER SECTON DETAIL
1 1/2" = 1'-0"

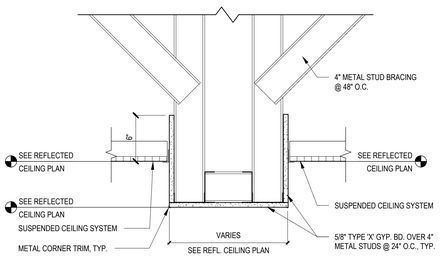
6 A-102.1A RADIATOR COVER JAMB DETAIL
1 1/2" = 1'-0"



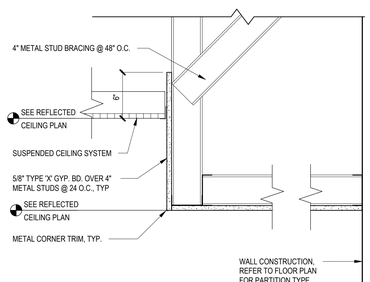
2 A-402 DETAIL SECTION GROUP ROOM
3/4" = 1'-0"



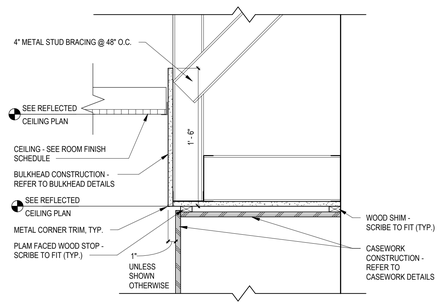
1 A-102.1B ENLARGED PLAN GROUP ROOM
3/4" = 1'-0"



5 A-112.1A BULKHEAD DETAIL
1 1/2" = 1'-0"



4 A-112.1A BULKHEAD DETAIL
1 1/2" = 1'-0"



3 A-112.1A TYPICAL BULKHEAD DETAIL @ CASEWORK
1 1/2" = 1'-0"

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Drawing Title: SECTIONS AND DETAILS
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-502

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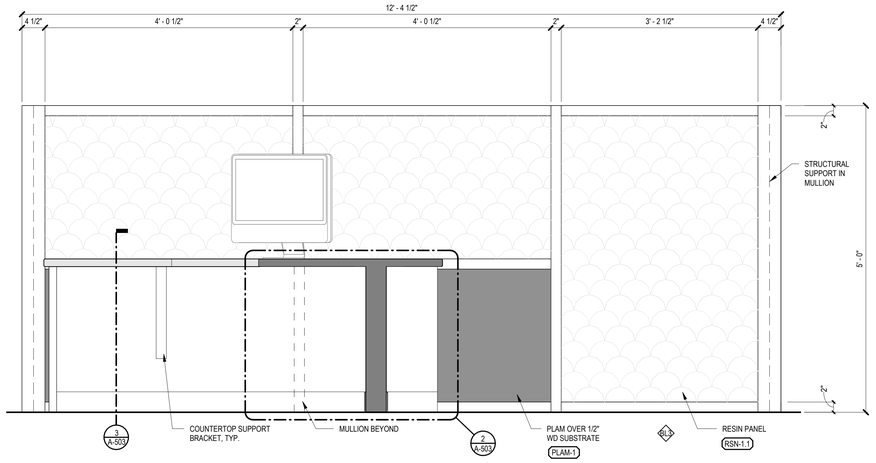
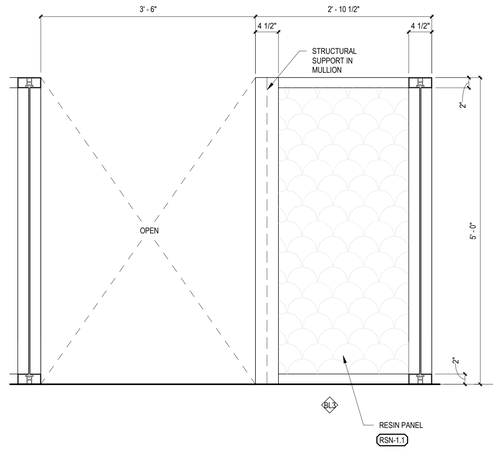
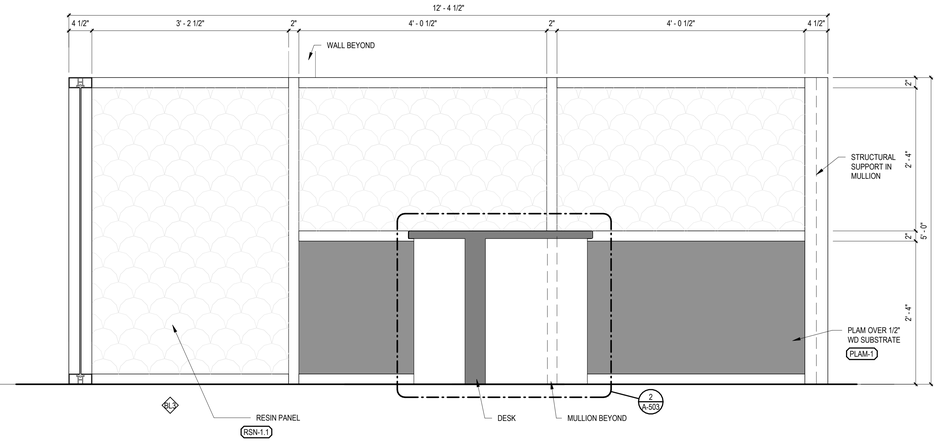


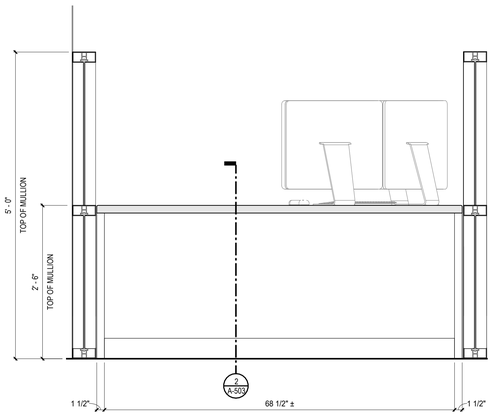
8 A-503 CHECK-IN DESK SOUTH AND BORROWED LIGHT BL3
1" = 1'-0"



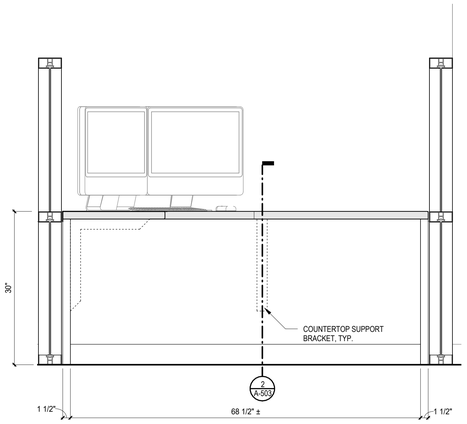
7 A-503 CHECK-IN DESK WEST AND BORROWED LIGHT BL3
1" = 1'-0"



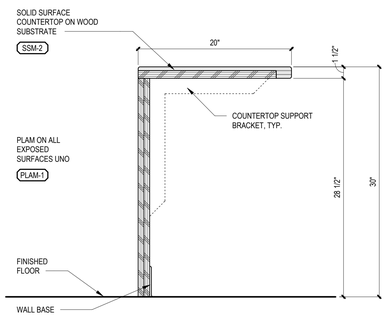
6 A-503 CHECK-IN DESK NORTH AND BORROWED LIGHT BL3
1" = 1'-0"



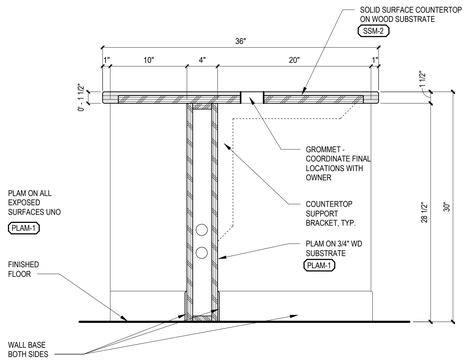
5 A-503 CHECK IN DESK FRONT
1" = 1'-0"



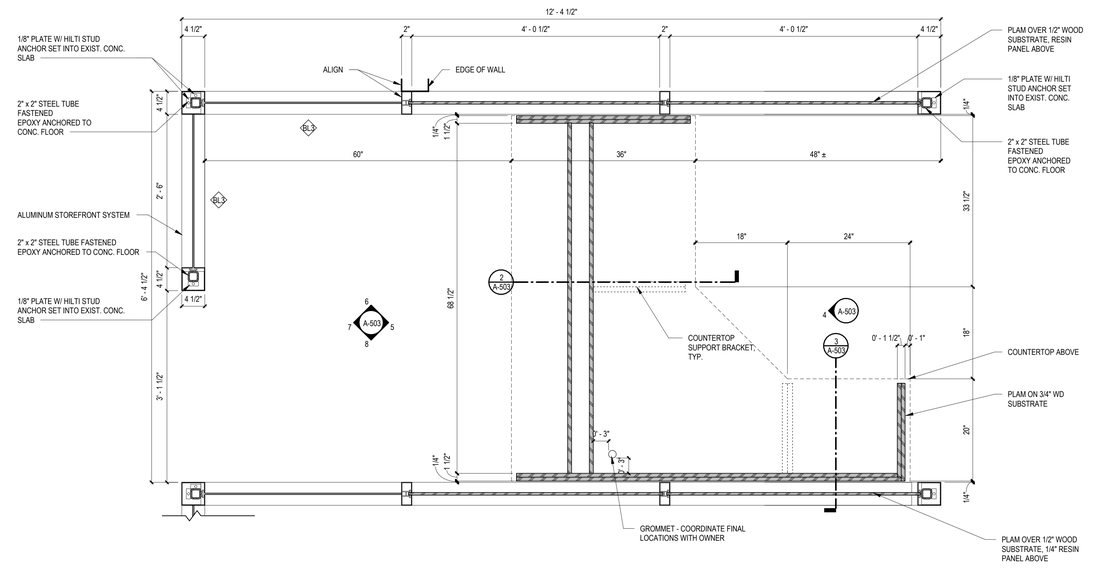
4 A-503 CHECK IN DESK BACK
1" = 1'-0"



3 A-503 CHECK IN DESK DETAIL SECTION LEFT
1 1/2" = 1'-0"



2 A-503 CHECK IN DESK DETAIL SECTION
1 1/2" = 1'-0"



1 A-102.1A ENLARGED DETAIL - CHECK-IN DESK, BELOW COUNTER, AND STOREFRONT FRAMING
1" = 1'-0"

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Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: CJA / MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-503

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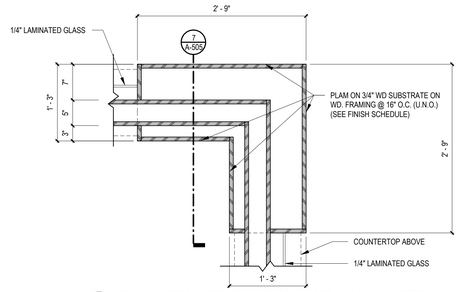
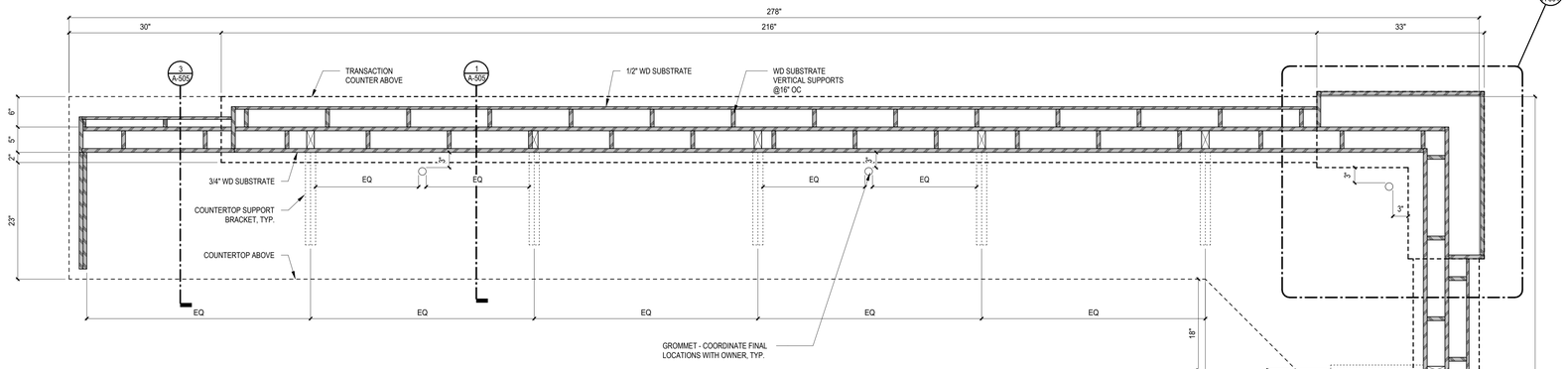
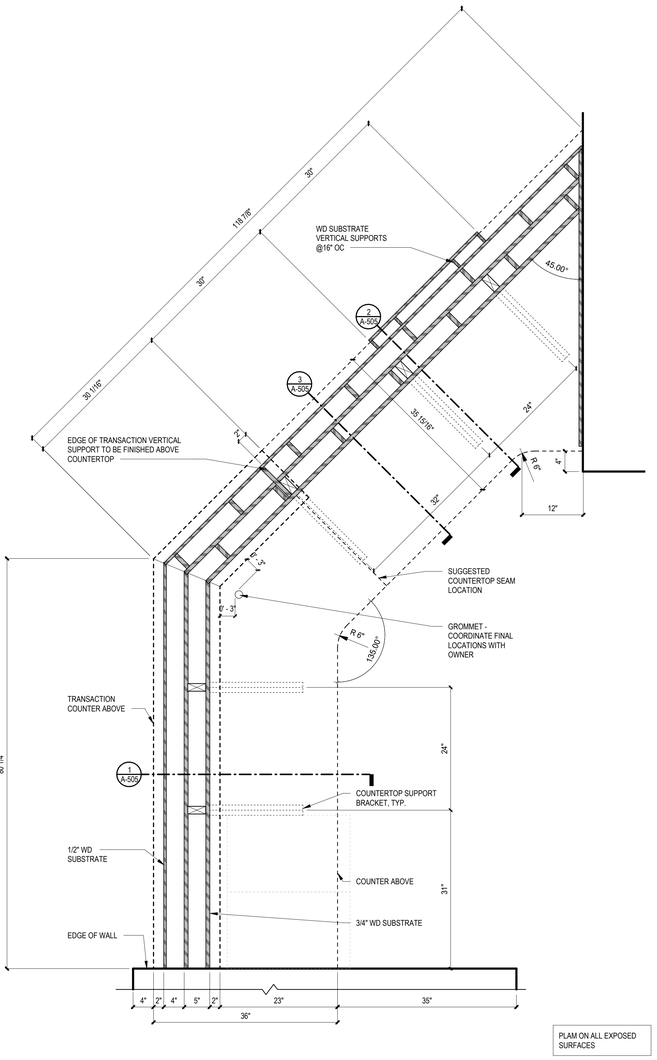
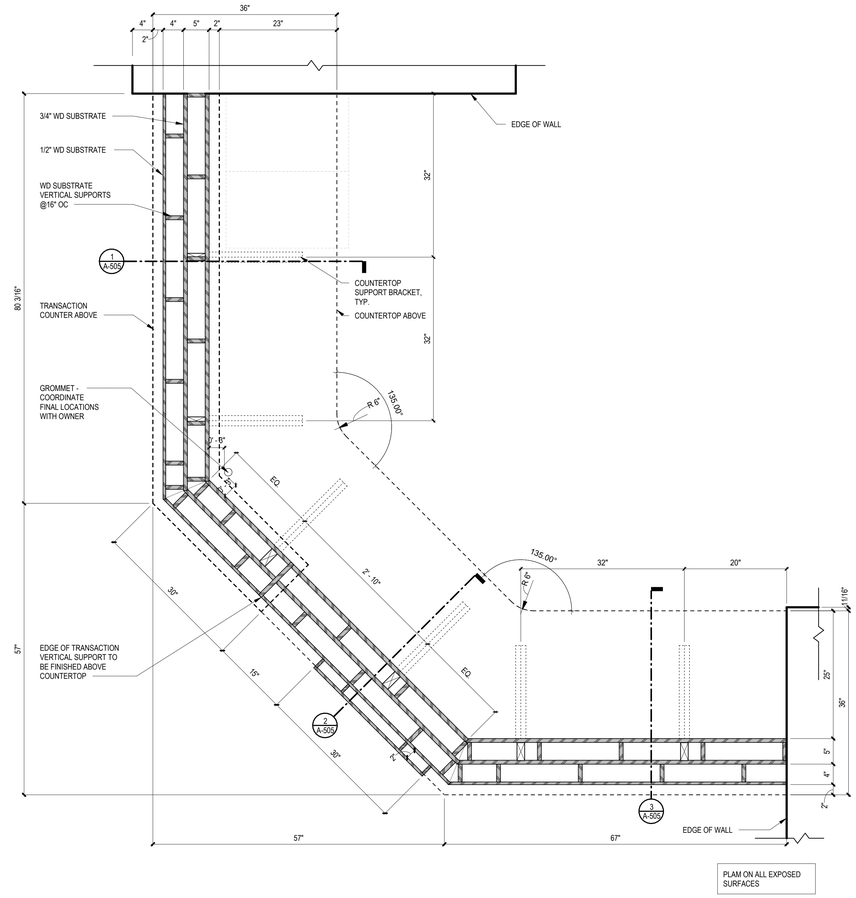


4 A-504 PLAN DETAIL BELOW TRANSACTION COUNTER
1" = 1'-0"

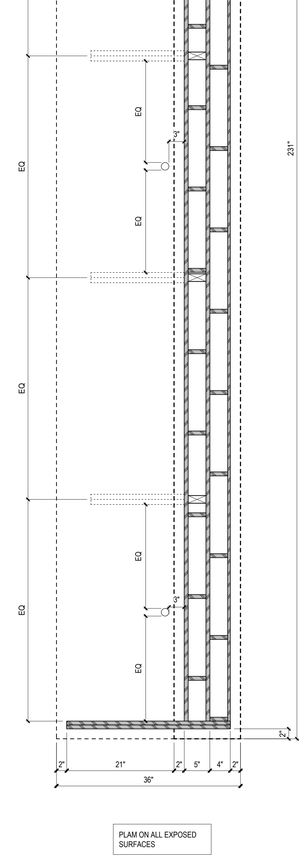




3 A-102.1A INFUSION CHECK-IN, BELOW COUNTER, PLAN DETAIL
1" = 1'-0"



2 A-102.1A CLINIC CHECK-OUT, BELOW COUNTER, PLAN DETAIL
1" = 1'-0"



1 A-102.1C NURSE STATION, BELOW COUNTER, PLAN DETAIL
1" = 1'-0"

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Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: CJA / MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-504

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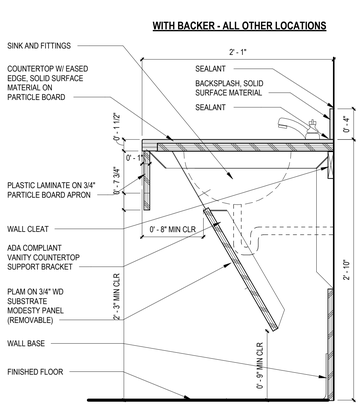
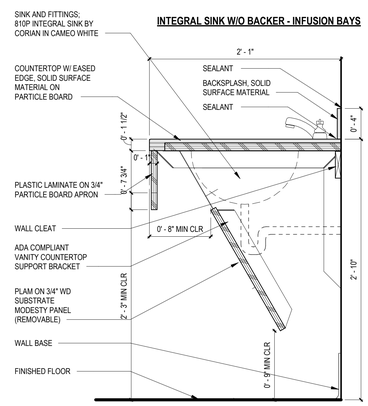
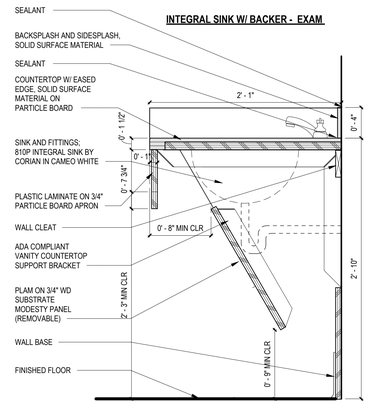


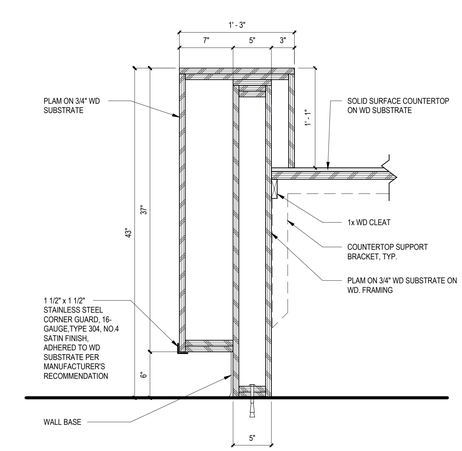
10 A-402 ADA SINK APRON - STANDARD SINK W/ BACKER
1 1/2" = 1'-0"



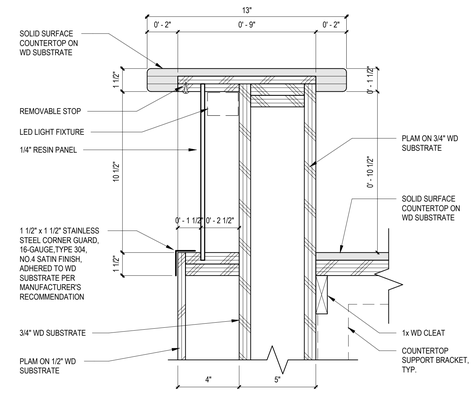
9 A-403 ADA SINK APRON - INTEGRAL SINK W/O BACKER
1 1/2" = 1'-0"



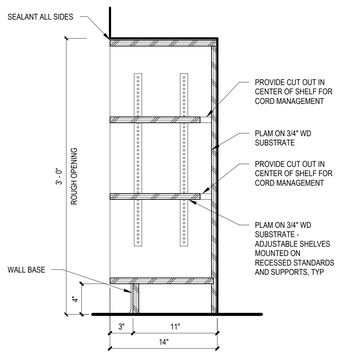
8 A-405 ADA SINK APRON - INTEGRAL SINK W/ BACKER
1 1/2" = 1'-0"



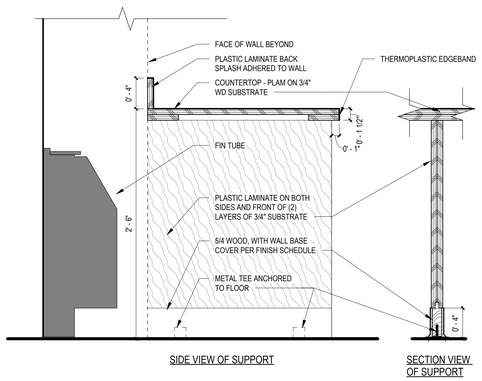
7 A-403 DESK DETAIL W/ LAMINATE PANEL
1 1/2" = 1'-0"



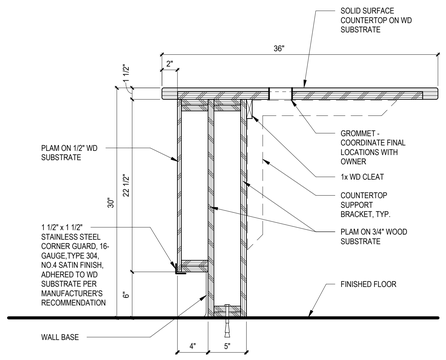
6 A-505 ENLARGED DESK DETAIL - GLASS LITE
3" = 1'-0"



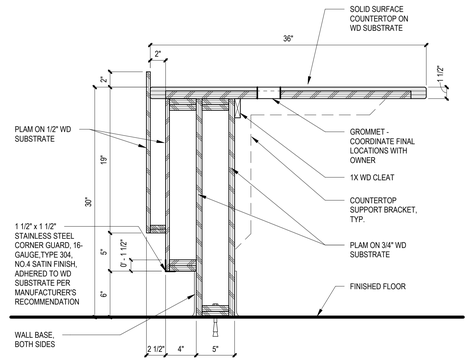
5 A-502 GROUP ROOM CASEWORK
1 1/2" = 1'-0"



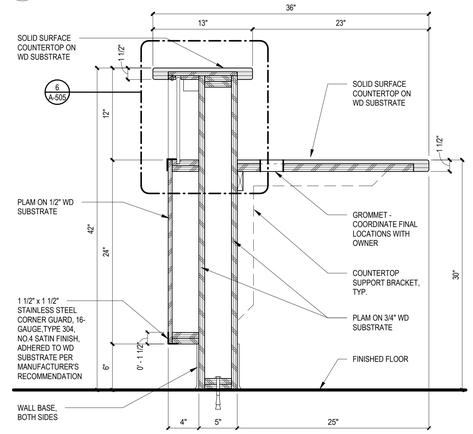
4 A-402 SHARED OFFICE - VERTICAL SUPPORT
1 1/2" = 1'-0"



3 A-401 DESK DETAIL SEATED HEIGHT
1 1/2" = 1'-0"



2 A-401 DESK DETAIL W/ LAMINATE PANEL
1 1/2" = 1'-0"



1 A-401 DESK DETAIL W/ LIT 3FORM
1 1/2" = 1'-0"

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Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: CJA / MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-505

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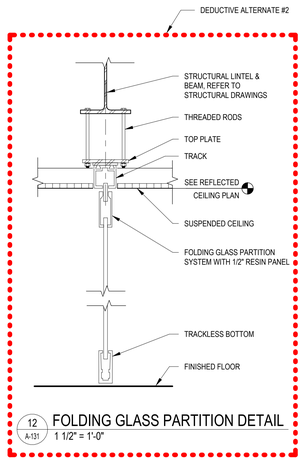
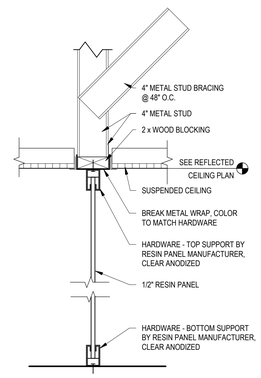
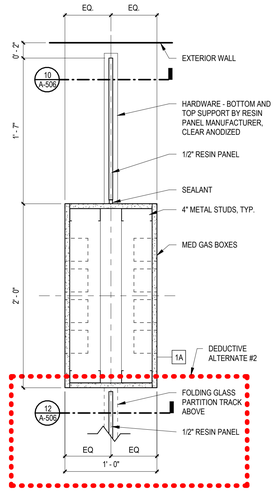


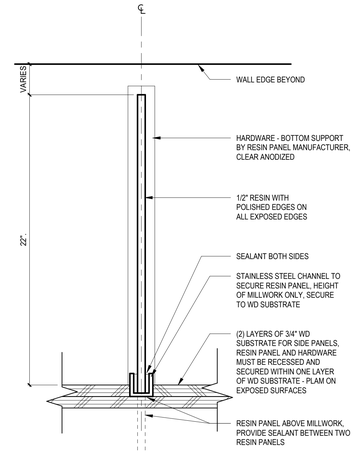
12 A-131 FOLDING GLASS PARTITION DETAIL
1 1/2" = 1'-0"



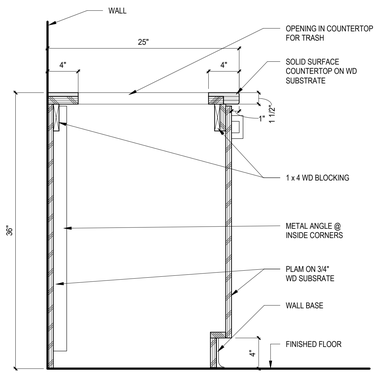
10 A-502 FIXED RESIN PARTITION DETAIL
1 1/2" = 1'-0"



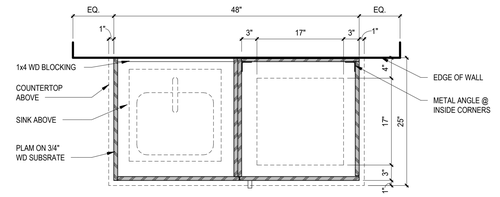
11 A-131 PLAN DETAIL - MED GAS WALL
1 1/2" = 1'-0"



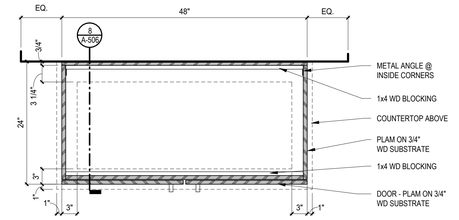
9 A-131 ENLARGED RESIN DETAIL - PLAN
3" = 1'-0"



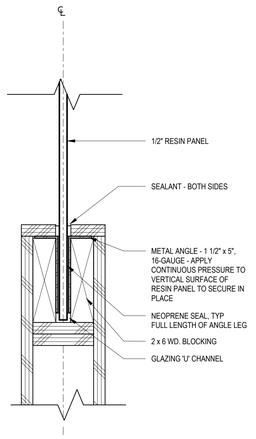
8 A-403 INFUSION BAY SECTION DETAIL
1 1/2" = 1'-0"



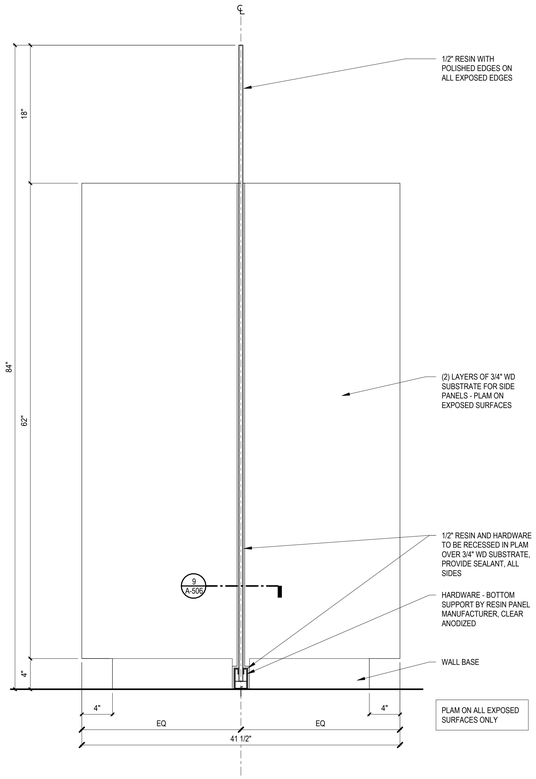
7 A-131 INFUSION BAY - SINK PLAN DETAIL
1" = 1'-0"



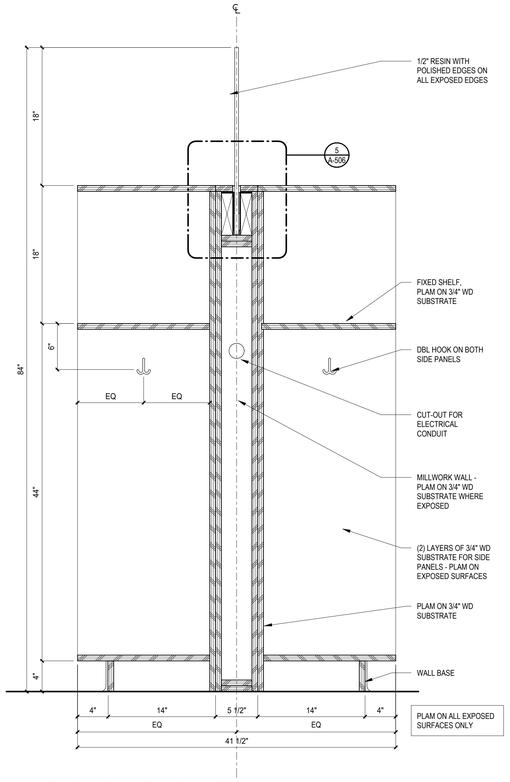
6 A-131 INFUSION BAY PLAN DETAIL
1" = 1'-0"



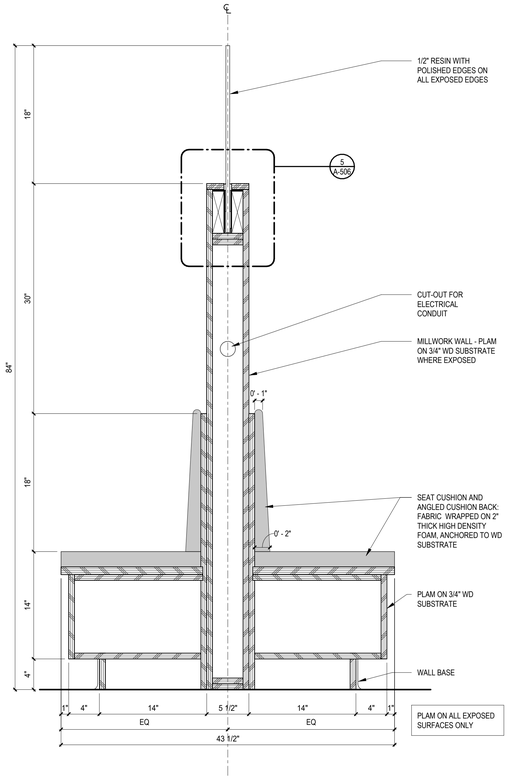
5 A-506 ENLARGED RESIN DETAIL - SECTION
3" = 1'-0"



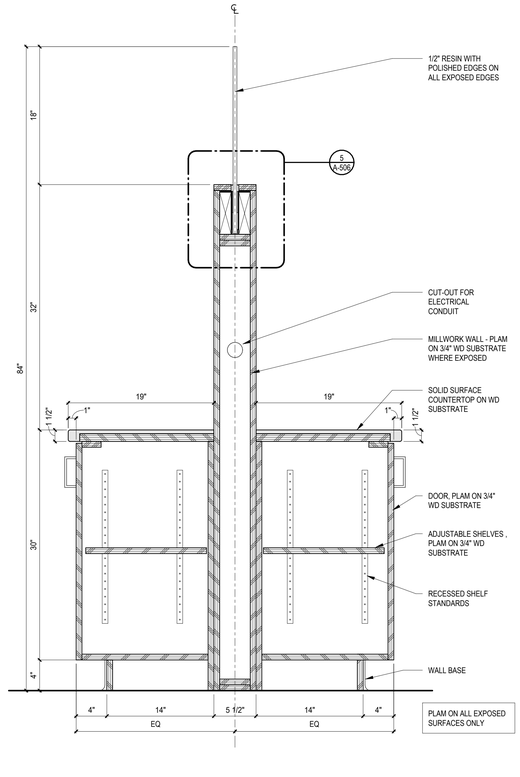
4 A-403 INFUSION BAY - RESIN END
1 1/2" = 1'-0"



3 A-131 INFUSION BAY - TALL CABINET
1 1/2" = 1'-0"



2 A-131 INFUSION BAY - BENCH
1 1/2" = 1'-0"



1 A-131 INFUSION BAY - SHORT CABINET
1 1/2" = 1'-0"

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VA U.S. Department of Veterans Affairs

Drawing Title: DETAILS - INFUSION BAYS
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: CJA / MRB
Project Number: 553-21-100
Building Number:
Drawing Number: A-506

Autodesk Docs://VA MI Detroit/21087_A.rvt
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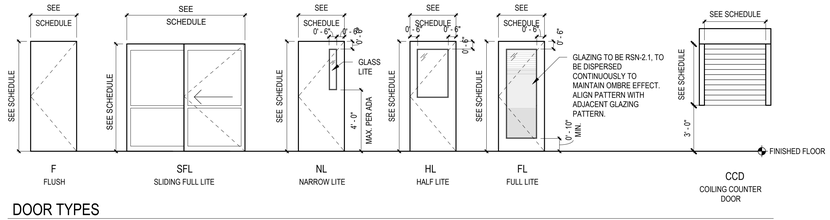
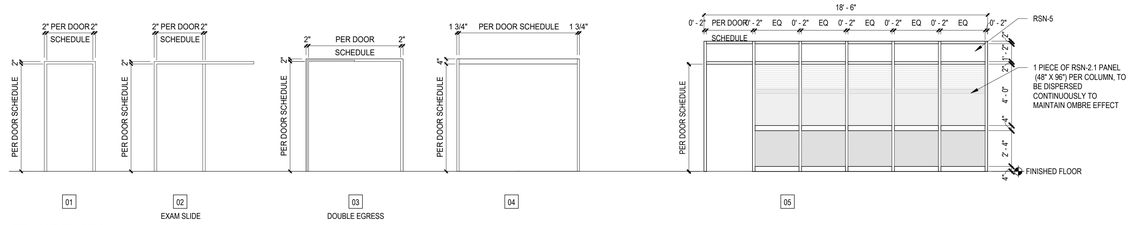
VA FORM 08 - 6231



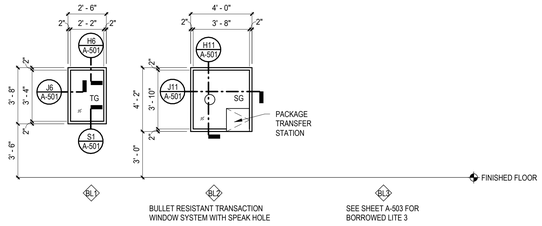
DOOR TYPES

1/4" = 1'-0"



FRAME TYPES

1/4" = 1'-0"



BORROWED LITE TYPES

1/4" = 1'-0"

DOOR & FRAME GENERAL NOTES

1. ALL DOOR AND WINDOW FRAMES SHALL HAVE SEALANT & BACKER ROD AT ENTIRE PERIMETER (BOTH SIDES,) U.N.O.
2. REFER TO SPECIFICATIONS FOR HARDWARE SETS.
3. ALL OUTSIDE DIMENSIONS OF FRAME TYPES ARE ROUGH OPENING SIZES.
4. MAINTAIN 4" MIN BETWEEN EDGE OF DOOR JAMB (HINGE SIDE) AND NEAREST PERPENDICULAR SURFACE.
5. STYLES & DIMENSIONS FOR DOOR TYPES & LITES ARE REFLECTING DESIGN INTENT, DOOR MANUFACTURER TO SUBMIT THEIR STANDARD TYPES, U.N.O., PER SPECIFICATIONS.
6. VERIFY EXISTING DOORS AND FRAMES SCHEDULED FOR USE IN RATED WALLS ARE RATED FOR SUCH USE. PROVIDE NEW WHERE REQUIRED.

DOOR & FRAME ABBREVIATIONS

IBG: INTEGRAL BLIND GLAZING
FR20: FIRE-RATED GLAZING - 20 MIN
FR45: FIRE-RATED GLAZING - 45 MIN
FR90: FIRE-RATED GLAZING - 45 MIN
TG: TEMPERED GLAZING
SG: SECURITY GLAZING
RSN: RESIN
HM: HOLLOW METAL
WD: WOOD
AL: ALUMINUM
RO: ROUGH OPENING
BR: BALLISTIC RATING
FG: FROSTED GLASS (ETCHING ON ENTIRE INSIDE OF GLAZING TO OBSCURE SIGHT)
ST: SMOKE-TIGHT PER CODE TO RESIST THE PASSAGE OF SMOKE.

DOOR AND FRAME SCHEDULE

DOOR			DOOR					FRAME					FIRE	HARDWARE SET	
			SIZE							DETAIL					
DOOR NO.	ROOM NO.	ROOM NAME	WD.	HGT	MATL	TYPE	GLAZING	MATL	TYPE	HEAD	JAMB	SILL	RATING	NO.	NOTES
BA - LEVEL 2															
A2012.1	A2012	CHECK-IN/ CHECK-OUT	3' - 0"	7' - 0"	WD	F	-	HM	01	H2	J2	-		10	
A2012.2	A2012	CHECK-IN/ CHECK-OUT	3' - 0"	7' - 0"	WD	NL	TG	HM	01	H2	J2	-		10	
A2014.1	A2012	CHECK-IN/ CHECK-OUT	3' - 0"	7' - 0"	WD	NL	TG	HM	01	H2	J2	-		06	
A2016.1	A2016	HAC	3' - 0"	7' - 0"	WD	F	-	HM	01	H2	J2	-	45 MIN.	19	
A2017A.1	A2017	EXAM CLINIC WAITING	3' - 6"	7' - 0"	WD	F	-	HM	01	H2	J2	-		15	
A2018.1	A2018	GROUP ROOM	3' - 0"	7' - 0"	AL	FL	RSN-2.1	AL	05	H1	J1	-		09	
A2020.1	A2020	SHARED OFFICE	3' - 0"	7' - 0"	WD	F	-	HM	01	H2	J2	-		13	
A2022.1	A2022	SHARED OFFICE	3' - 0"	7' - 0"	WD	NL	TG	HM	01	H2	J2	-		13	
A2023.1	A2023	OFFICE - RN CARE COORDINATOR	3' - 6"	7' - 0"	WD	NL	TG	HM	02	H5	J5	-		07	
A2025.1	A2025	OFFICE - RN CARE COORDINATOR	3' - 6"	7' - 0"	WD	NL	TG	HM	02	H5	J5	-		07	
A2026.1	A2026	ANTI-COAG	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2028.1	A2028	EXAM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2029.1	A2029	EXAM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2030.1	A2030	EXAM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2033.1	A2033	EXAM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2034.1	A2034	EXAM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2035.1	A2035	EXAM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2036.1	A2036	EXAM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2037.1	A2037	EXAM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2038.1	A2038	EXAM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2039.1	A2039	EXAM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2040.1	A2040	EXAM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2041.1	A2041	EXAM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2042.1	A2042	WORK ROOM	3' - 6"	7' - 0"	WD	F	-	HM	02	H5	J5	-		11	
A2043.1	A2043	EQUIPMENT STORAGE	3' - 0"	7' - 0"	WD	F	-	HM	01	H2	J2	-	20 MIN.	04	
A2045.1	A2045	STAFF TOILET	3' - 0"	7' - 0"	WD	F	-	HM	01	H2	J2	-		17	
A2046.1	A2046	MED ROOM	3' - 0"	7' - 0"	WD	NL	FR20	HM	01	H2	J2	-	20 MIN.	04	
A2047.1	A2047	BREAK ROOM	3' - 0"	7' - 0"	WD	HL	TG	HM	01	H2	J2	-		13	
A2048.1	A2048	CLEAN LINEN	3' - 0"	7' - 0"	WD	F	-	HM	01	H6	J6	-	20 MIN.	04	
A2050.1	A2050	CLEAN UTILITY	3' - 0"	7' - 0"	WD	NL	FR20	HM	01	H6	J6	-	20 MIN.	04	
A2052.1	A2052	SOILED UTILITY	3' - 0"	7' - 0"	WD	NL	FR45	HM	01	H2	J2	-	45 MIN.	05	
A2053.1	A2053	PHARMACIST WORK AREA	3' - 6"	7' - 0"	WD	F	-	HM	01	H2	J2	-	45 MIN.	03	CARD READER
A2053.2	A2053	PHARMACIST WORK AREA	4' - 6"	6' - 0"	SS	CC	-	SS	-	H11	J11	H11	45 MIN.	20	
A2054.1	A2054	HAZARDOUS DRUG STORAGE	3' - 6"	7' - 0"	WD	F	-	HM	01	H2	J2	-		14	
A2055.1	A2055	ANTE ROOM	8' - 0"	7' - 0"	AL	SFL	TG	AL	04			-		18	
A2056.1	A2056	STERILE NON-HAZARDOUS DRUG BUFFER ROOM	8' - 0"	7' - 0"	AL	SFL	TG	AL	04			-		18	
A2057.1	A2057	STERILE HAZARDOUS DRUG BUFFER ROOM	8' - 0"	7' - 0"	AL	SFL	TG	AL	04			-		18	
A2058.1	A2058	SHARED OFFICE	3' - 0"	7' - 0"	WD	NL	TG	HM	01	H2	J2	-		14	
A2059.1	A2059	OFFICE	3' - 0"	7' - 0"	WD	NL	TG	HM	01	H2	J2	-		06	
A2060.1	A2060	SHARED OFFICE	3' - 0"	7' - 0"	WD	NL	TG	HM	01	H2	J2	-		14	
A2061.1	A2061	OFFICE	3' - 0"	7' - 0"	WD	NL	TG	HM	01	H2	J2	-		06	
A2064.1	A2064	INFUSION ROOM 1	4' - 0"	7' - 0"	WD	F	-	HM	01	H2	J2	-		12	
A2065.1	A2065	INFUSION ROOM 2	4' - 0"	7' - 0"	WD	F	-	HM	01	H2	J2	-		12	
A2066.1	A2066	INFUSION ROOM 3	4' - 0"	7' - 0"	WD	F	-	HM	01	H2	J2	-		12	
A2069.1	A2069	PATIENT TOILET	3' - 0"	7' - 0"	WD	F	-	HM	01	H2	J2	-		15	
A2071.1	A2071	PATIENT TOILET	3' - 0"	7' - 0"	WD	F	-	HM	01	H2	J2	-		15	
A2108.1	A2108	SHARED OFFICE	3' - 0"	7' - 0"	WD	NL	TG	HM	01	H2	J2	-		06	
A2109.1	A2109	SHARED OFFICE	3' - 0"	7' - 0"	WD	NL	TG	HM	01	H2	J2	-		06	
A2110.1	A2110	WOMEN'S LOCKERS	3' - 0"	7' - 0"	WD	F	-	HM	01	H2	J2	-		14	
A2110A.1	A2110	WOMEN'S LOCKERS	3' - 0"	7' - 0"	WD	F	-	HM	01	H2	J2	-		16	
CA207.1	CA216	CORRIDOR	4' - 0"	7' - 0"	WD	NL	TG	HM	01	H2	J2	-		08	
CA213.2	CA216	CORRIDOR	3' - 6"	7' - 0"	WD	NL	TG	HM	01	H2	J2	-		08	
CA216.1	CA216	CORRIDOR	7' - 4"	7' - 0"	WD	F	-	HM	03	H3	J3	-	90 MIN.	02	
CA216.2	CA218	CORRIDOR	7' - 4"	7' - 0"	WD	NL	FR90	HM	03	H4	J4	-	90 MIN.	01	
CA216.3	CA217	CORRIDOR	7' - 4"	7' - 0"	WD	NL	FR90	HM	03	H4	J4	-	90 MIN.	01	

Revisions:	Date:
100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023

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INTERIOR MATERIAL SCHEDULE

CODE	USE	MANUFACTURER	STYLE	PATTERN & COLOR	SIZE	INSTALLATION PATTERN	NOTES
ACOUSTICAL CEILINGS							
ACP-1	ACOUSTICAL CEILING PANEL	ARMSTRONG	ULTIMA HEALTH ZONE, BEVELED TEGULAR, 1447	WHITE PANEL, WHITE GRID	24 x 24 x 3/4", 15/16" GRID	--	NRC OF 0.8; CAC OF 35
LMC-1	WOOD LOOK LINEAR METAL CEILING	ARMSTRONG	METALWORKS LINEAR - SYNCHRO CEILING PLANKS, 8223W06	EFFECTS SESAME (FXSE), M1 UNPERFORATED	6" PLANK, 6 X 96 X 1"	--	--
SMC-1	WOOD LOOK SQUARE METAL PAN CEILING	ARMSTRONG	METALWORKS TORSION SPRING	EFFECTS SESAME (FXSE), M1 UNPERFORATED	24 x 24 x 1-1/2"		--
BASE							
B-1	INTEGRAL BASE TO MATCH EF-1	STONHARD	--	4" H	--	--	--
RB-1	COVE BASE	ROPPE	PINNACLE RUBBER BASE, STANDARD TOE	178 PEWTER	4" H, CONTINUOUS RUNS	--	--
RB-2	COVE BASE FOR PLAM-1 DESKS	TARKETT	PINNACLE RUBBER BASE, STANDARD TOE	679 SEPIA	6" H, CONTINUOUS RUNS	--	--
RB-3	COVE BASE FOR PLAM-2 DESKS	TARKETT	PINNACLE RUBBER BASE, STANDARD TOE	671 SOMBER	6" H, CONTINUOUS RUNS	--	--
CONCRETE							
SC-1	SEALED CONCRETE	--					
CARPET							
CPT-1	FIELD CARPET TILE	SHAW CONTRACT	COMPILATION 5T515	ALLUSION 75400	18" X 36"	ASHLAR	--
CPT-2	FIELD CARPET TILE	SHAW CONTRACT	COMPILATION 5T515	ALLUSION 75400	18" X 36"	HERRINGBONE	--
CPT-3	OFFICE CARPET TILE	SHAW CONTRACT	DIFFUSE COLOR ECOWORX TILE 5T478	COOL BLUE 78521	24" X 24"	MONOLITHIC	--
RESILIENT							
EF-1	RESINOUS EPOXY FOR PHARMACY - FIELD	STONHARD	STONCLAD GS MORTAR WITH STONSEAL PF7 SEALER	SILVER GRAY	--	--	--
EF-2	RESINOUS EPOXY FOR PHARMACY - ACCENT	STONHARD	STONCLAD GS MORTAR WITH STONSEAL PF7 SEALER	PEWTER	--	--	--
EF-3	RESINOUS EPOXY FOR PHARMACY - DEMARCATION	STONHARD	STONCLAD GS MORTAR WITH STONSEAL PF7 SEALER	BRICK RED	--	--	--
RF-1	FIELD RESILIENT FLOORING	MANNINGTON	BLOOM	MEANDER, RENEWAL B201	REFER TO SEAMING PLAN	--	WELDED SEAM, COLOR: 842357 GRAY
RF-2	ACCENT RESILIENT FLOORING	MANNINGTON	BLOOM	WILDFLOWER, SHADE B103	REFER TO SEAMING PLAN	--	WELDED SEAM, COLOR: 842357 GRAY
PAINT							
P-1	GYPBOARD CEILINGS, EPOXY	PPG	EPOXY, FLAT	CEILING WHITE	--	--	PAINT TO BE PPG REGARDLESS OF COLOR MATCH
P-2	HOLLOW METAL DOOR AND WINDOW FRAME	PPG	SEMI-GLOSS	SW 6141 SOFTER TAN; PPG RO12-169	--	--	PAINT TO BE PPG REGARDLESS OF COLOR MATCH
P-3	FIELD NEUTRAL	PPG	EGGSHELL	SW 6141 SOFTER TAN; PPG RO12-169	--	--	PAINT TO BE PPG REGARDLESS OF COLOR MATCH
P-4	ACCENT BLUE	PPG	EGGSHELL AT WALLS, FLAT AT CEILINGS	PROVINCE BLUE 2135-40; PPG SF11-549	--	--	PAINT TO BE PPG REGARDLESS OF COLOR MATCH
P-5	BLUE TO MATCH WALL PROTECTION	PPG	EGGSHELL	COLOR TO MATCH RWP-6	--	--	PAINT TO BE PPG REGARDLESS OF COLOR MATCH
WALL PROTECTION							
EWP-1	EPOXY WALL PROTECTION	STONHARD	STONGLAZE VSD	WHITE	--	--	--
FWP-1	FLEXIBLE WALL PROTECTION - BLUE	MOMENTUM	PSTEC	EXHALE,SEA BREEZE P3T-60342	.040" THICK	--	PROVIDE ALL NECESSARY TRIM PIECES, INCLUDING VERTICAL TRIM PIECES AT SEAMS
FWP-2	FLEXIBLE WALL PROTECTION - GREEN	INPRO	RAYCHET	CLARITY, SUCCULENT RC-CLA-R817	.040" THICK	--	PROVIDE ALL NECESSARY TRIM PIECES, INCLUDING VERTICAL TRIM PIECES AT SEAMS
RWP-1	RIGID WALL PROTECTION - NEUTRAL	INPRO	PALLADIUM	OATMEAL 0239	.040" THICK, 4' X 8'	--	PROVIDE ALL NECESSARY TRIM PIECES, INCLUDING VERTICAL TRIM PIECES AT SEAMS
RWP-2	RIGID WALL PROTECTION - BLUE	CS GROUP	ACROVYN	ASPEN 848	.040" THICK	--	PROVIDE ALL NECESSARY TRIM PIECES, INCLUDING VERTICAL TRIM PIECES AT SEAMS
RWP-3	RIGID WALL PROTECTION - GREEN	CS GROUP	ACROVYN	DARK MOSS 1113	.040" THICK	--	PROVIDE ALL NECESSARY TRIM PIECES, INCLUDING VERTICAL TRIM PIECES AT SEAMS
RWP-4	RIGID WALL PROTECTION - BLUE PATTERNED	INPRO	PALLADIUM PATTERNS	THINSTRIPE, STONE THN-03	.040" THICK, 4' X 8'	--	PROVIDE ALL NECESSARY TRIM PIECES, INCLUDING VERTICAL TRIM PIECES AT SEAMS
RWP-5	RIGID WALL PROTECTION - CUSTOM FOR LOBBY	CS GROUP	ACROVYN	IMAGE: ISTOCK BY GETTY IMAGES; STOCK PHOTO ID 1149047492	CONTRACTOR TO V.I.F.	--	PROVIDE ALL NECESSARY TRIM PIECES, INCLUDING VERTICAL TRIM PIECES AT SEAMS
RWP-6	RIGID WALL PROTECTION - CUSTOM FOR GROUP	CS GROUP	ACROVYN	IMAGE: GETTY IMAGES; CREATIVE ID 946451866	CONTRACTOR TO V.I.F.	--	PROVIDE ALL NECESSARY TRIM PIECES, INCLUDING VERTICAL TRIM PIECES AT SEAMS
RWP-7	RIGID WALL PROTECTION - CUSTOM FOR NURSE	CS GROUP	ACROVYN	IMAGE: ISTOCK BY GETTY IMAGES; STOCK PHOTO ID 506478148	CONTRACTOR TO V.I.F.	--	PROVIDE ALL NECESSARY TRIM PIECES, INCLUDING VERTICAL TRIM PIECES AT SEAMS
RWP-8	RIGID WALL PROTECTION - CUSTOM FOR INFUSION	CS GROUP	ACROVYN	IMAGE: GETTY IMAGES; CREATIVE ID 178104203	CONTRACTOR TO V.I.F.	--	PROVIDE ALL NECESSARY TRIM PIECES, INCLUDING VERTICAL TRIM PIECES AT SEAMS
WALLCOVERING							
WC-1	ACCENT WALLCOVERING	WOLF GORDON	RIDGELINE	AEGEAN, RGL 5416	52" WIDE	--	--
CORNER GUARD							
CG-1	CORNERGUARD - NEUTRAL	INPRO	PALLADIUM, 150 HIGH IMPACT CORNER GUARD	OATMEAL 0239	--	--	--
CG-2	CORNERGUARD - BLUE	CS GROUP	ACROVYN, SM-20 CORNER GUARD	ASPEN 848	--	--	--
CG-3	CORNERGUARD - GREEN	CS GROUP	ACROVYN, SM-20 CORNER GUARD	DARK MOSS 1113	--	--	--
CG-4	CORNERGUARD - BLUE PATTERNED	INPRO	PALLADIUM, 150 HIGH IMPACT CORNER GUARD	STELING 0283	--	--	--
CASEWORK							
PLAM-1	DARK WOOD LAMINATE	WILSONART	38 FINE VELVET TEXTURE FINISH	BRAZILWOOD 7946-38	--	--	--
PLAM-2	CROSSHATCH LAMINATE	WILSONART	38 FINE VELVET TEXTURE FINISH	HANDSPUN CHESTNUT 5036-38	--	--	--
PLAM-3	PHARMACY LAMINATE	WILSONART	60 MATTE FINISH	WALLABY D439-60	--	--	--
PLAM-4	TEAL LAMINATE	WILSONART	60 MATTE FINISH	INK SOUP Y0357	--	--	--
PLAM-5	LIGHT WOOD LAMINATE	WILSONART	38 FINE VELVET TEXTURE FINISH	NEW AGE OAK 7938-38	--	--	--
SS-1	STAINLESS STEEL	--	--	--	--	--	--
SSM-1	FIELD SOLID SURFACE	CORIAN	WILLOW	--	--	--	--
SSM-2	ACCENT SOLID SURFACE	CORIAN	RAIN CLOUD	--	--	--	--
SSM-3	WINDOW SILL SOLID SURFACE	CORIAN	WILLOW	--	--	--	--
TRIM							
TR-1	TILE COVE TRIM	SCHLUTER	DILEX-AHK	SATIN ANODIZED ALUMINUM	--	--	TILE COVE TRIM
TR-2	TILE OUTSIDE CORNER TRIM	SCHLUTER	RONDEC	SATIN ANODIZED ALUMINUM	--	--	TILE OUTSIDE CORNER TRIM
TR-3	TILE EXPOSED EDGE TRIM	SCHLUTER	JOLLY	SATIN ANODIZED ALUMINUM	--	--	TILE EXPOSED EDGE TRIM
GROUT							
GT-1	GRAY GROUT	LATICRETE	UNSANDED	24 NATURAL GREY	--	--	--
GT-2	TAN GROUT	LATICRETE	UNSANDED	56 DESERT KHAKI	--	--	--
GT-3	CREAM GROUT	LATICRETE	UNSANDED	94 WALNUT	--	--	--
TILE							
T-1	ACCENT TILE	WOW USA (VIRGINIA TILE)	POTTERY, COSMIC	NATURAL	2" x 6"	HERRINGBONE	1/8" GROUT JOINT; GT1
T-2	ACCENT TILE	WOW USA (VIRGINIA TILE)	POTTERY	NATURAL	2" x 6"	HERRINGBONE	1/8" GROUT JOINT; GT1
T-3	ACCENT TILE	WOW USA (VIRGINIA TILE)	POTTERY	GREY	2" x 6"	HERRINGBONE	1/8" GROUT JOINT; GT1
T-4	RESTROOM FLORAL TILE	MARAZZI (VIRGINIA TILE)	RICE, DECO BLOSSOM	BIANCO	2" x 6"	VERTICAL STACK	1/8" GROUT JOINT; GT-2
T-5	RESTROOM WOOD TILE	CROSSVILLE (VIRGINIA TILE)	NEST	BLISSFUL OLIVE	8" X 36"	VERTICAL STACK	1/16" GROUT JOINT; GT-2
T-6	RESTROOM MOSAIC WOOD TILE	CROSSVILLE (VIRGINIA TILE)	NEST	BLISSFUL MOSAIC	1" X 6" MOSAIC	--	GROUT JOINT TO MATCH MOSAIC SPACING OF APPROX. 7/8"; GT-2
T-7	FIELD WALL TILE	ATLAS CONCORDE USA (GENESSEE TILE)	FRAY	WHITE	12" x 24"	VERTICAL STACK	1/16" GROUT JOINT; GT-3
T-8	FIELD FLOOR TILE	ATLAS CONCORDE USA (GENESSEE TILE)	FRAY	SAND	24" x 48"	MONOLITHIC	1/16" GROUT JOINT; GT-1
RESIN							
RSN-1.1	FERN RESIN - GLAZING	3FORM	SANDSTONE F01	IVORY FLORA, MOUNTAIN FERN	1/4" GAUGE	--	--
RSN-1.2	FERN RESIN - MILLWORK	3FORM	SANDSTONE F01	IVORY FLORA, MOUNTAIN FERN W/ POWDER	1/4" GAUGE	--	LID# 1063714
RSN-2.1	OMBRE RESIN - GLAZING	3FORM	SANDSTONE F01	INTERLAYERS, HORIZON DAY	1/4" GAUGE	--	--
RSN-2.2	OMBRE RESIN - DOORS	3FORM	SANDSTONE F01	INTERLAYERS, HORIZON DAY (PRINTED)	1/2" GAUGE	--	LID# 1074466
RSN-3	BLUE RESIN - INFUSION BAYS	3FORM	SANDSTONE F01	INTERLAYERS, VITA ORBIT	1/2" GAUGE	PATTERN INSTALL TO BE CONSISTENT	LID# 1034636
RSN-4	LEAF RESIN - MILLWORK	3FORM	SANDSTONE F01	INTERLAYERS, FOSSIL LEAF ICEBERG W/ POWDER	1/4" GAUGE	--	LID# 1074495
RSN-5	CLEAR RESIN - GLAZING	3FORM	SANDSTONE F01	VARIA, CLEAR	1/4" GAUGE	--	LID# 1020271
WOOD							
WD-1	WOOD DOORS	MASONITE	ASPIRO SERIES	RED OAK, PLAIN SLICED, CLEAR	--	--	--
FABRIC							
FAB-1	CUBICLE CURTAIN FABRIC	ARC-COM	AQUIFER X, AC-33405X	CARIBBEAN #6	72" W	RAILROAD INSTALL	--
FAB-2	BUILT IN BENCH FABRIC	CF STINSON	LUNARIA	LUN51 BERGAMOT	54" W	--	--

INTERIORS ABBREVIATIONS

ABBREVIATION	FULL TEXT
ACP	ACOUSTICAL CEILING PANEL
ACS	ACOUSTICAL CEILING SPRAY
AL	ALUMINUM
BF	BARRIER FREE
BR	BUMP RAIL
CG	CORNER GUARD
CPT	CARPET TILE
CS	CONCRETE SEALER
EFF	EFFICENCY
EL	ELEVATION
EP	EPOXY PAINT
ES	EXPOSED STRUCTURE
EWT	ENTERING WATER TEMPERATURE
F&Y	FLOAT AND THERMOSTATIC
FAB	FABRIC/UPHOLSTERY
FCO	FLOOR CLEANOUT
FPM	FEET PER MINUTE
FRP	FIELD REINFORCED PANEL
FS	FLOW SWITCH
FV	FIELD VERIFY
GL	GLASS
GT	GROUT
GYP. BD.	GYPSUM BOARD
HM	HOLLOW METAL
IN	INCHES
NF	NO FINISH
P	PAINT
PLAM	PLASTIC LAMINATE
PLY	PLYWOOD
QT	QUARRY TILE
QTB	QUARTZ TILE BASE
QTZ	QUARTZ
RB	RUBBER BASE
RF	RESILIENT FLOORING
RSN	RESIN
SLR	CONCRETE SEALER
SLS	SOLID SURFACE
STL	STEEL
STN	STAIN
TP	TOILET PARTITION
TR	TRANSITION TRIM
TYP	TYPICAL
WCVR	WALLCOVERING
WS	WINDOW SHADE

MANUFACTURER REPRESENTATIVES

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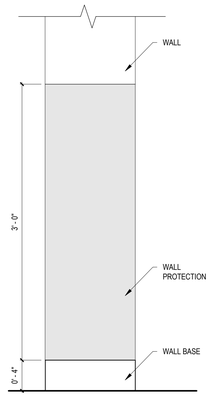
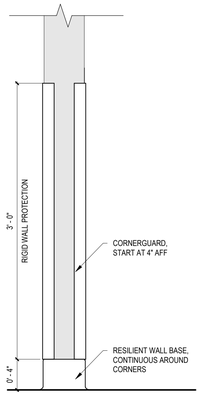
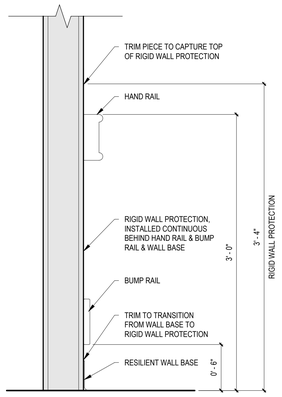
3FORM; REBECCA BLACK;
REBECCA.BLACK@3-FORM.COM; 313-500-9710



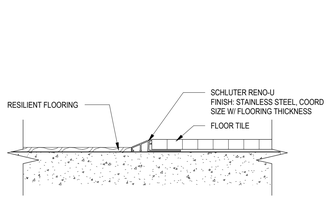
12 TYP WALL PROTECTION
1 1/2" = 1'-0"



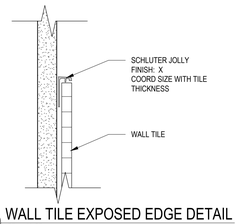
11 TYP CORNERGUARD AND WALL BASE
1 1/2" = 1'-0"



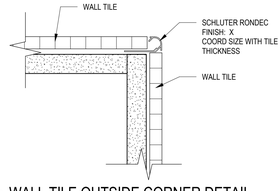
10 TYP WALL PROTECTION WITH HAND RAILS
1 1/2" = 1'-0"



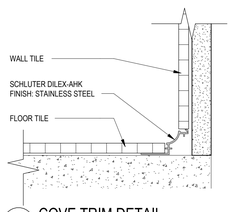
9 TRANSITION RESILIENT TO PORCELAIN
6" = 1'-0"



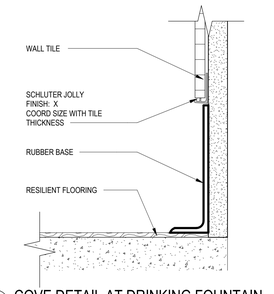
8 WALL TILE EXPOSED EDGE DETAIL
6" = 1'-0"



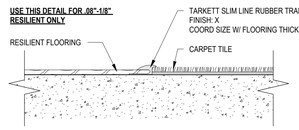
6 WALL TILE OUTSIDE CORNER DETAIL
6" = 1'-0"



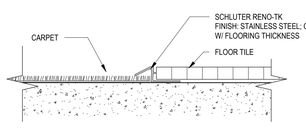
4 COVE TRIM DETAIL
6" = 1'-0"



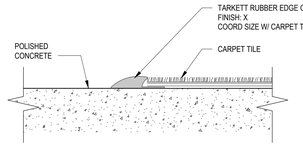
2 COVE DETAIL AT DRINKING FOUNTAIN
6" = 1'-0"



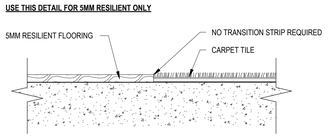
7 TRANSITION CARPET TO RESILIENT
6" = 1'-0"



5 TRANSITION CARPET TO PORCELAIN TILE
6" = 1'-0"



3 TRANSITION CARPET TO CONCRETE
6" = 1'-0"



1 TRANSITION CARPET TO 5MM RESILIENT
6" = 1'-0"

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Drawing Title: **INTERIORS GENERAL NOTES AND LEGENDS**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **KJH**
Drawn: **CJA**
Project Number: **553-21-100**
Building Number:
Drawing Number: **I-001**

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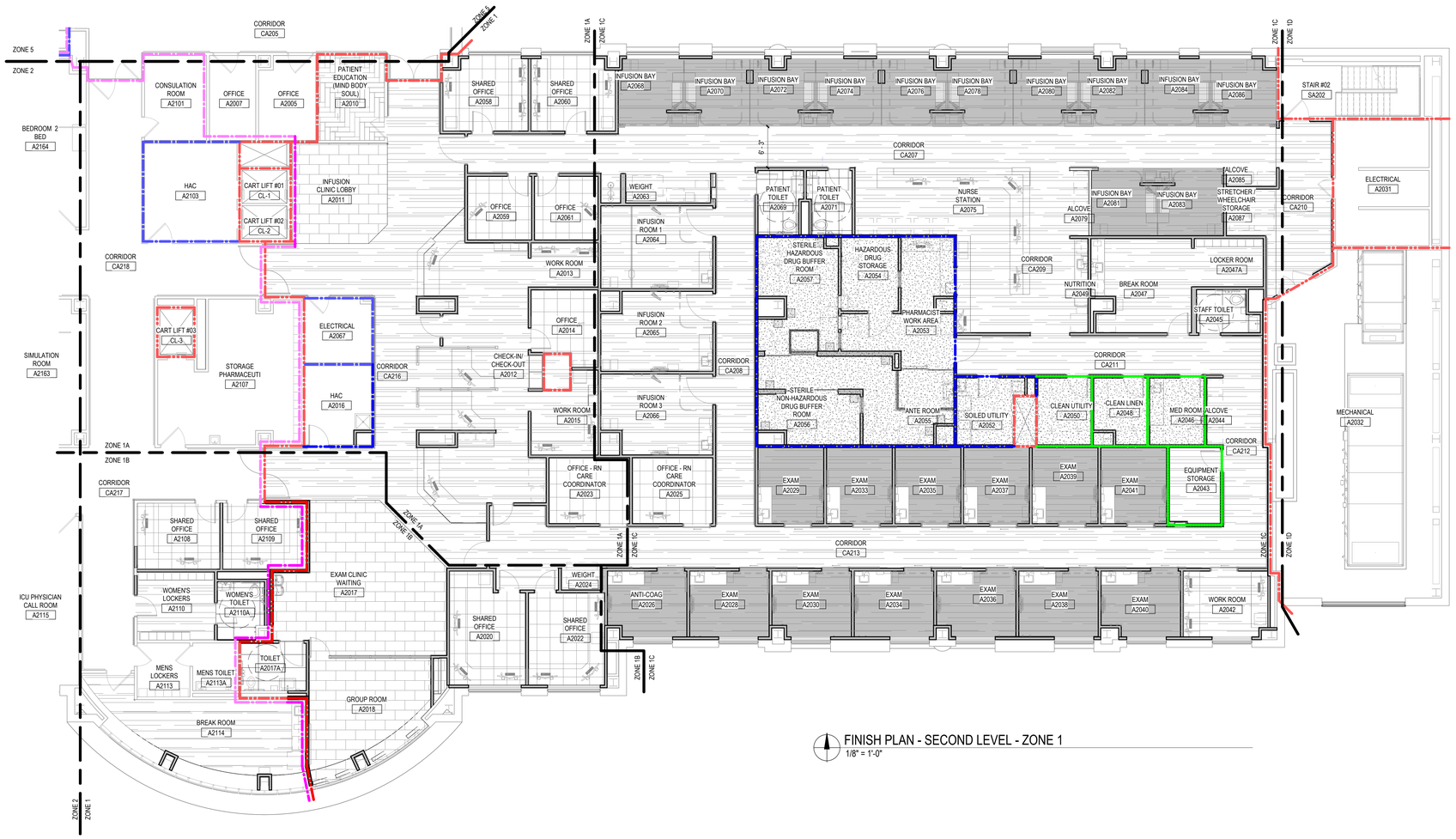


FINISH PLAN - SECOND LEVEL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

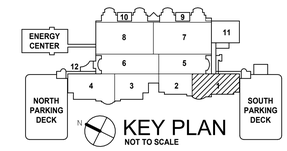
NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

ROOM FINISH GENERAL NOTES

1. DOOR FRAME COLOR CHANGES SHALL OCCUR ON STOP AS IF DOOR IS IN CLOSED POSITION WITH THE DOOR AND FRAME SHOWING AS ONE COLOR.
2. FLOORING TRANSITIONS SHALL BE CENTERED UNDER DOOR WHILE IN CLOSED POSITION. PROVIDE TRANSITION STRIP BETWEEN ALL FLOORING MATERIAL TRANSITIONS.
3. ALL AREAS EXPOSED TO VIEW ABOVE THE CEILINGS ARE TO BE PAINTED. REFER TO INTERIORS DOCUMENTS FOR COLOR.
4. ALL EXPOSED STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL ELEMENTS ARE TO BE PAINTED. REFER TO INTERIORS DOCUMENTS FOR COLOR.

INTERIOR FINISH LEGEND

- RF-1
- RF-2
- EF-1
- EF-2
- EF-3
- CPT-1
- CPT-2
- CPT-3
- T-8
- INTERIOR FINISH TAG
- INDICATES EXTENT OF ACCENT WALL FINISH



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Drawing Title: FINISH PLAN - SECOND LEVEL - ZONE 1
Approved:
Phase: 100% BID DOCUMENTS
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Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: CJA
Project Number: 553-21-100
Building Number:
Drawing Number: I-102.1

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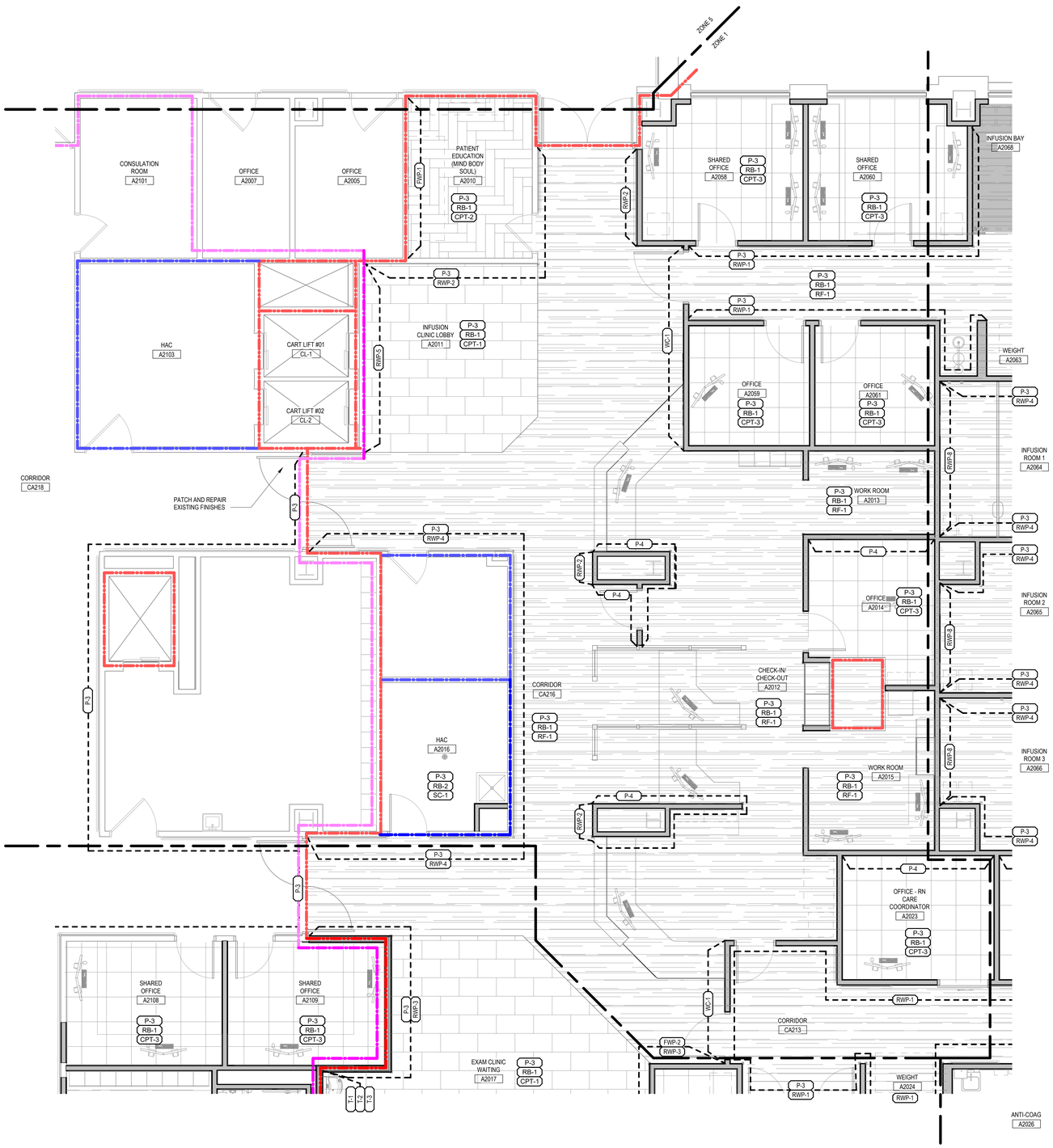

FLOOR PLAN - SECOND LEVEL - ZONE 1A
1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

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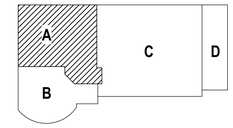
INTERIOR FINISH LEGEND

- RF-1
- RF-2
- EF-1
- EF-2
- EF-3
- CPT-1
- CPT-2
- CPT-3
- T-8
- INTERIOR FINISH TAG
- INDICATES EXTENT OF ACCENT WALL FINISH



KEY PLAN
NOT TO SCALE

100% BID DOCUMENTS	10-JAN-2025
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Drawing Title: **FINISH PLAN - SECOND LEVEL - ZONE 1A**
Approved:
Phase: **100% BID DOCUMENTS**
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Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **KJH**
Drawn: **CJA**
Project Number: **553-21-100**
Building Number:
Drawing Number: **I-102.1A**

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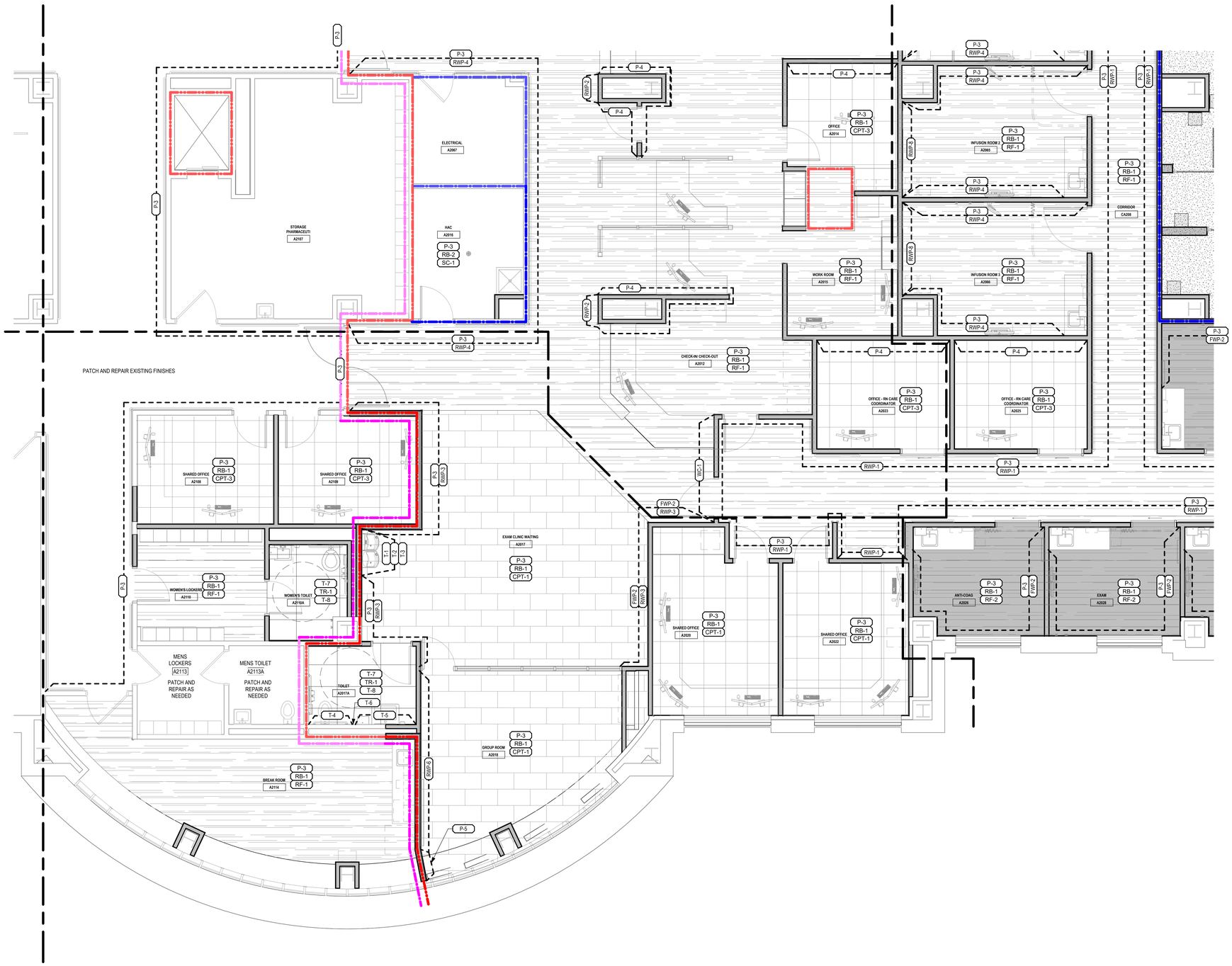

FINISH PLAN - SECOND LEVEL - ZONE 1B
1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
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- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

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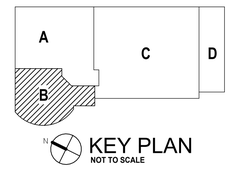
INTERIOR FINISH LEGEND

- RF-1
- RF-2
- EF-1
- EF-2
- EF-3
- CPT-1
- CPT-2
- CPT-3
- T-8
- INTERIOR FINISH TAG
- INDICATES EXTENT OF ACCENT WALL FINISH



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Drawing Title: FINISH PLAN - SECOND LEVEL - ZONE 1B
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Phase: 100% BID DOCUMENTS
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Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: CJA
Project Number: 553-21-100
Building Number:
Drawing Number: I-102.1B

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FLOOR PLAN - SECOND LEVEL - ZONE 1C
1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
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- EXISTING 2-HR. FIRE BARRIER

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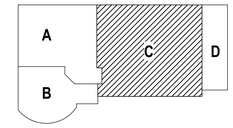
INTERIOR FINISH LEGEND

- RF-1
- RF-2
- EF-1
- EF-2
- EF-3
- CPT-1
- CPT-2
- CPT-3
- T-8
- INTERIOR FINISH TAG
- INDICATES EXTENT OF ACCENT WALL FINISH



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Drawing Title: **FINISH PLAN - SECOND LEVEL - ZONE 1C**
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Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **KJH**
Drawn: **CJA**
Project Number: **553-21-100**
Building Number:
Drawing Number: **I-102.1C**

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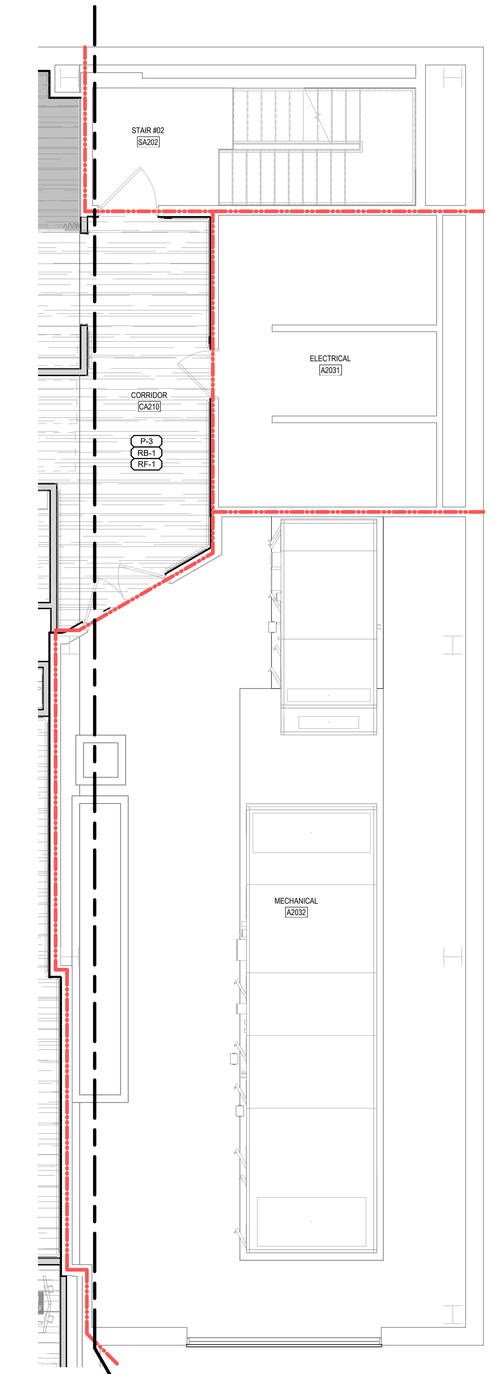


FLOOR PLAN - SECOND LEVEL - ZONE 1D
1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

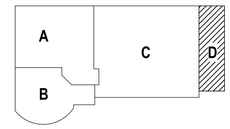
NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

ROOM FINISH GENERAL NOTES

1. DOOR FRAME COLOR CHANGES SHALL OCCUR ON STOP AS IF DOOR IS IN CLOSED POSITION WITH THE DOOR AND FRAME SHOWING AS ONE COLOR.
2. FLOORING TRANSITIONS SHALL BE CENTERED UNDER DOOR WHILE IN CLOSED POSITION. PROVIDE TRANSITION STRIP BETWEEN ALL FLOORING MATERIAL TRANSITIONS.
3. ALL AREAS EXPOSED TO VIEW ABOVE THE CEILINGS ARE TO BE PAINTED. REFER TO INTERIORS DOCUMENTS FOR COLOR.
4. ALL EXPOSED STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL ELEMENTS ARE TO BE PAINTED. REFER TO INTERIORS DOCUMENTS FOR COLOR.

INTERIOR FINISH LEGEND

- RF-1
- RF-2
- EF-1
- EF-2
- EF-3
- CPT-1
- CPT-2
- CPT-3
- T-8
- INTERIOR FINISH TAG
- INDICATES EXTENT OF ACCENT WALL FINISH



KEY PLAN
NOT TO SCALE

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS	15-APR-2024
Revisions:	Date:

VA STATION
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Monument Engineering Group Associates, Inc. MEGA

ENGINEER OF RECORD
WalterMechanical Services Inc.
3419 Pierson Place
Flushing, Michigan, 48433
810-230-6202

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

Drawing Title: **FINISH PLAN - SECOND LEVEL - ZONE 1D**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **KJH**
Drawn: **CJA**
Project Number: **553-21-100**
Building Number:
Drawing Number: **I-102.1D**

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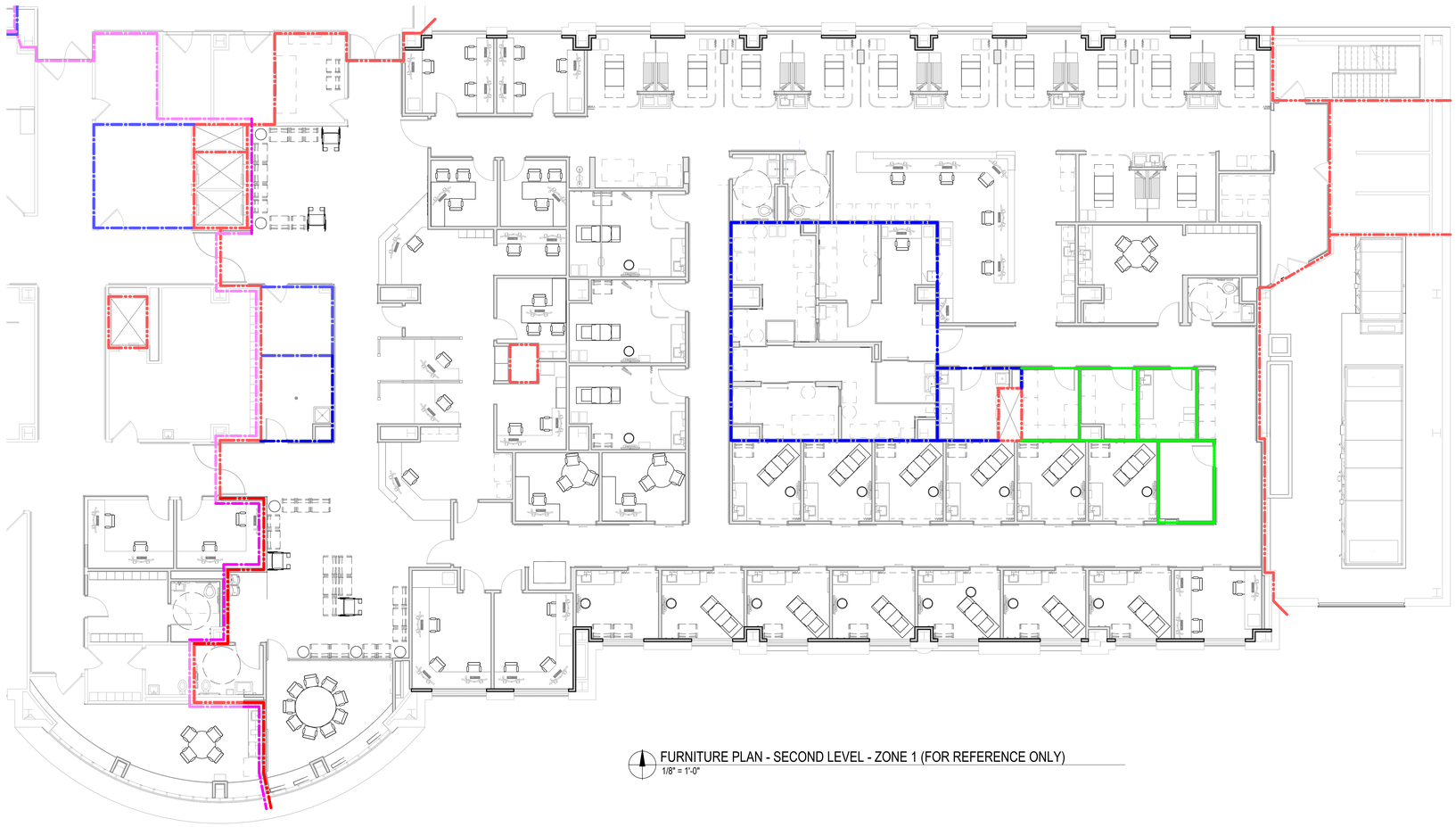

FURNITURE PLAN - SECOND LEVEL - ZONE 1 (FOR REFERENCE ONLY)
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

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- EXISTING NON-RATED SMOKE PARTITION
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- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

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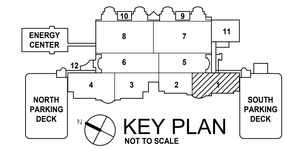

Revisions:	Date:
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95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
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VA U.S. Department of Veterans Affairs

Drawing Title: FURNITURE PLAN - SECOND LEVEL - ZONE 1 (FOR REFERENCE ONLY)
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FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: KJH
Drawn: CJA
Project Number: 553-21-100
Building Number:
Drawing Number: I-111

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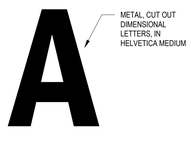

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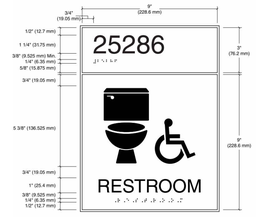
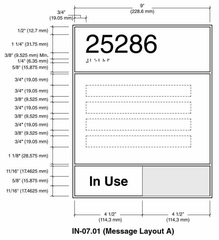
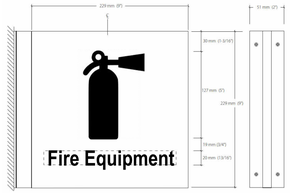


IN-09.01-.06
RESTROOM IDENTIFICATION

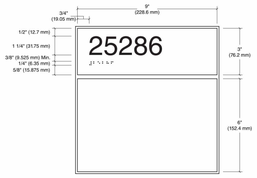


IN-07.01 (Message Layout A)

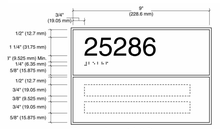
IN-07.01-.02
ROOM IDENTIFICATION WITH INSERT & INDICATOR



IN-01.31
FIRE EQUIPMENT IDENTIFICATION SIGN

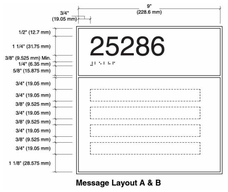


IN-05.06
PATIENT ROOM IDENTIFICATION WITH WRITE-ON PANEL



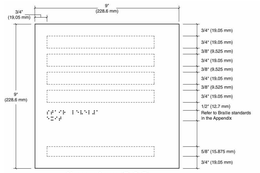
Message Layout A & B

IN-04.02
SECONDARY ROOM IDENTIFICATION WITH INSERT



Message Layout A & B

IN-04.01 B
PRIMARY ROOM IDENTIFICATION WITH INSERT



Message Layout B, C, D

IN-01.10 C
STAIR IDENTIFICATION SIGN

IN-03.01
ROOM NUMBER IDENTIFICATION

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
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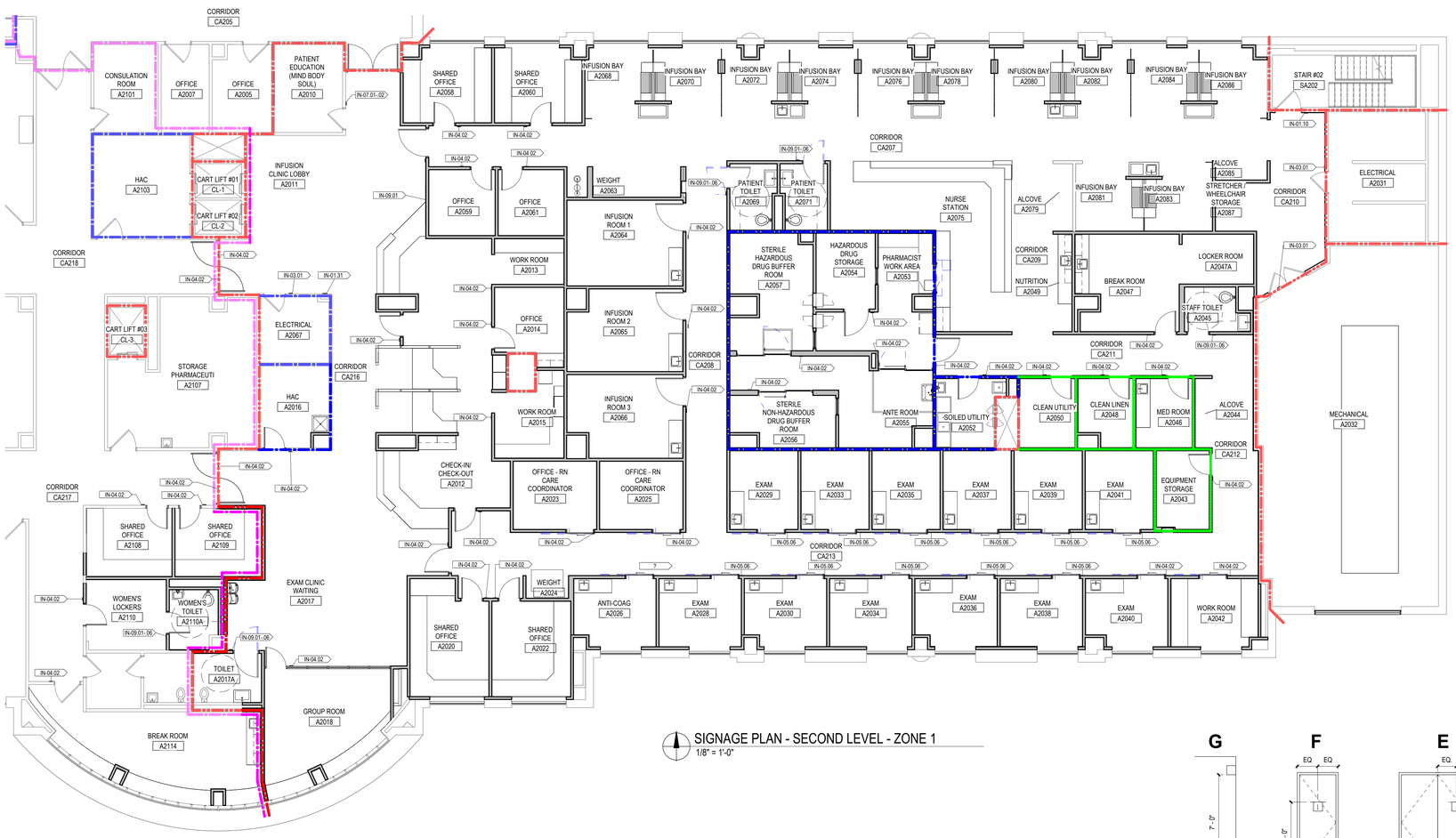
NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

VA SIGN TYPES

3" = 1'-0"

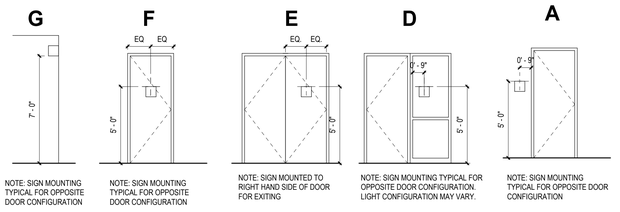


SIGNAGE PLAN - SECOND LEVEL - ZONE 1
1/8" = 1'-0"

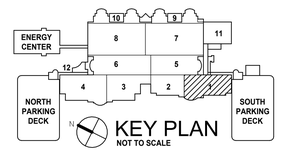
TAG	ROOM NAME	ROOM NUMBER	SIGN TEXT	MOUNTING
IN-01.10	STAIR #02	SA202	*	A
IN-01.31	ELECTRICAL	A2067	*	G
IN-03.01	ELECTRICAL	A2067	*	A
IN-03.01	ELECTRICAL	A2031	*	A
IN-03.01	MECHANICAL	A2032	*	E
IN-04.02	SHARED OFFICE	A2058	*	A
IN-04.02	SHARED OFFICE	A2060	*	A
IN-04.02	OFFICE	A2061	*	A
IN-04.02	OFFICE	A2059	*	A
IN-04.02	HAC	A2016	*	A
IN-04.02	CORRIDOR	CA217	*	E
IN-04.02	CORRIDOR	CA216	*	E
IN-04.02	CORRIDOR	CA218	*	E
IN-04.02	CORRIDOR	CA216	*	E
IN-04.02	CORRIDOR	CA207	*	A
IN-04.02	CHECK-IN/ CHECK-OUT	A2012	*	A
IN-04.02	CORRIDOR	CA213	*	A
IN-04.02	SHARED OFFICE	A2108	*	A
IN-04.02	SHARED OFFICE	A2109	*	A
IN-04.02	GROUP ROOM	A2018	*	D
IN-04.02	WOMEN'S LOCKERS	A2110	*	A
IN-04.02	BREAK ROOM	A2114	*	A
IN-04.02	SHARED OFFICE	A2020	*	A
IN-04.02	SHARED OFFICE	A2022	*	A
IN-04.02	EXAM	A2040	*	A
IN-04.02	WORK ROOM	A2042	*	A
IN-04.02	CHECK-IN/ CHECK-OUT	A2012	*	A
IN-04.02	OFFICE - RN CARE COORDINATOR	A2023	*	A
IN-04.02	OFFICE - RN CARE COORDINATOR	A2025	*	A
IN-04.02	EQUIPMENT STORAGE	A2043	*	A
IN-04.02	MED ROOM	A2046	*	A
IN-04.02	CLEAN LINEN	A2048	*	A
IN-04.02	CLEAN UTILITY	A2050	*	A
IN-04.02	SOILED UTILITY	A2052	*	A
IN-04.02	ANTE ROOM	A2055	*	A
IN-04.02	STERILE NON-HAZARDOUS DRUG BUFFER ROOM	A2056	*	A
IN-04.02	STERILE HAZARDOUS DRUG BUFFER ROOM	A2057	*	A
IN-04.02	HAZARDOUS DRUG STORAGE	A2054	*	A
IN-04.02	PHARMACIST WORK AREA	A2053	*	A
IN-04.02	BREAK ROOM	A2047	*	A
IN-04.02	INFUSION ROOM 3	A2066	*	A
IN-04.02	INFUSION ROOM 2	A2065	*	A
IN-04.02	INFUSION ROOM 1	A2064	*	A
IN-04.02	OFFICE	A2014	*	A
IN-04.02	OFFICE	A2014	*	A
IN-04.02	WORK ROOM	A2015	*	A
IN-04.02	ANTI-COAG	A2026	*	A
IN-05.06	EXAM	A2028	*	A
IN-05.06	EXAM	A2030	*	A
IN-05.06	EXAM	A2034	*	A
IN-05.06	EXAM	A2036	*	A
IN-05.06	EXAM	A2038	*	A
IN-05.06	EXAM	A2029	*	A
IN-05.06	EXAM	A2033	*	A
IN-05.06	EXAM	A2035	*	A
IN-05.06	EXAM	A2037	*	A
IN-05.06	EXAM	A2039	*	A
IN-05.06	EXAM	A2041	*	A
IN-07.01-.02	PATIENT EDUCATION (MIND BODY SOUL)	A2010	*	A
IN-09.01	CHECK-IN/ CHECK-OUT	A2012	*	A
IN-09.01	CHECK-IN/ CHECK-OUT	A2012	*	A
IN-09.01-.06	TOILET	A2017A	*	A
IN-09.01-.06	WOMEN'S TOILET	A2110A	*	A
IN-09.01-.06	STAFF TOILET	A2045	*	A
IN-09.01-.06	PATIENT TOILET	A2069	*	A
IN-09.01-.06	PATIENT TOILET	A2071	*	A

Grand total: 65

*** SIGN TEXT TO MATCH ROOM NAME**



SIGN MOUNTING HEIGHTS
NOT TO SCALE



KEY PLAN
NOT TO SCALE

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title: **SIGNAGE PLAN - SECOND LEVEL - ZONE 1**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **KJH**
Drawn: **CJA**
Project Number: **553-21-100**
Building Number:
Drawing Number: **I-120**

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Mannington
COMMERCIAL

SV-1 BLOOM MEANDER 12' INSTALLED MONOLITHIC
SV-2 BLOOM MEANDER 9' INSTALLED MONOLITHIC
SV-3 BLOOM MEANDER 6' INSTALLED MONOLITHIC
SV-4 BLOOM WILDFLOWER 12' INSTALLED MONOLITHIC

Scale 1:240 (original drawing scale 1:96)

DETROIT VA A2 S SEAMING DIAGRAM 07.10.24

11 July 2024 : DETROIT VA A2 S SEAMING DIAGRAM 07.10.24

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****Note that Mannington is not responsible for the other products that are used on this Finish Plan. The Dealer is fully responsible for all materials, quantities and installation of other Manufacture's products.****

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Summary Report

FloorMaps
Crafted with purpose

SEAMING PLAN
NOT TO SCALE

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
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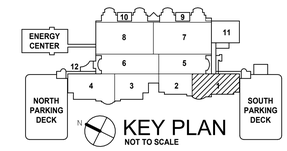

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Office of Construction and Facilities Management
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Drawing Title: **FLOORING SEAM PLAN - SECOND LEVEL - ZONE 1**
Approved:
Phase: **100% BID DOCUMENTS**
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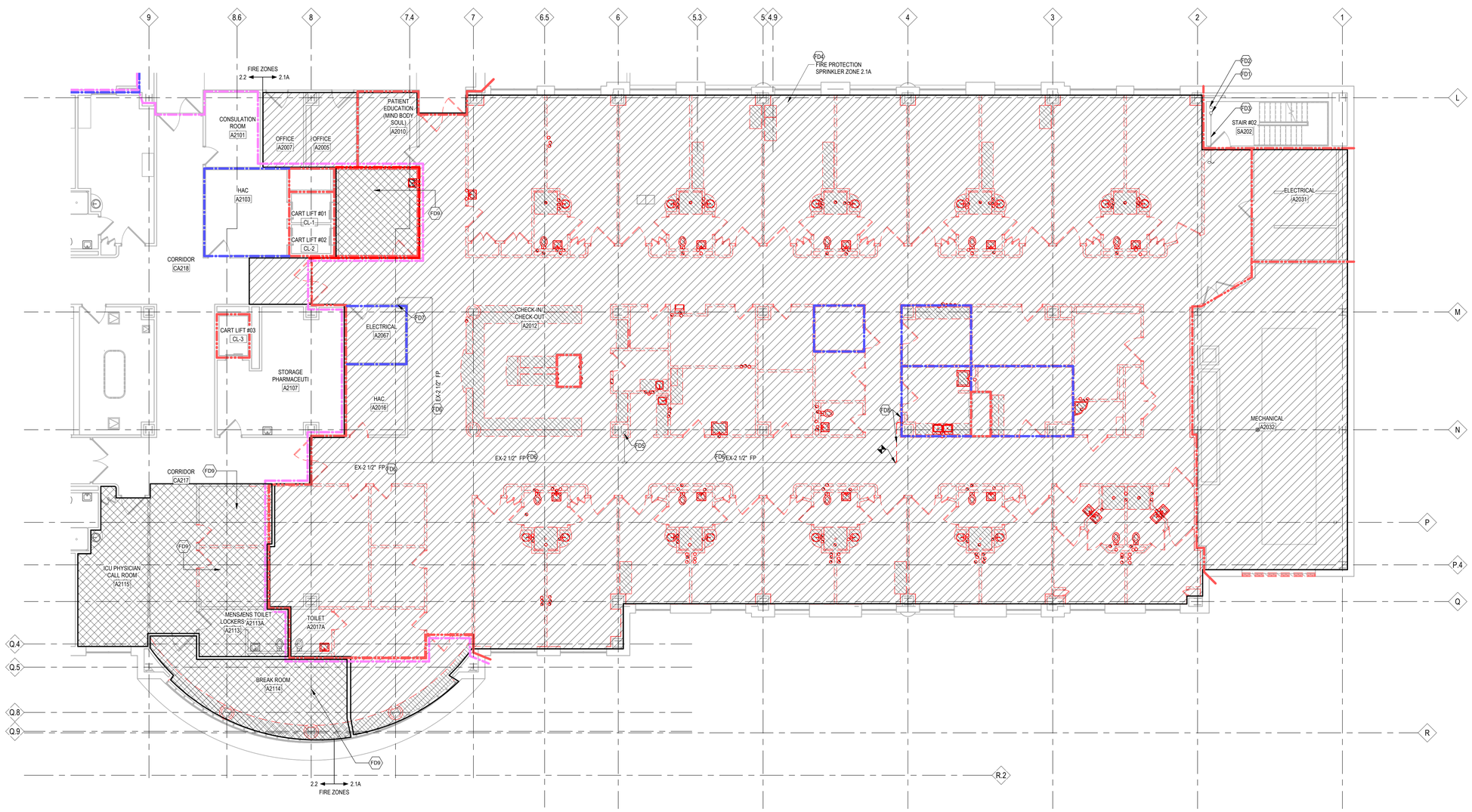


FIRE PROTECTION DEMOLITION PLAN - SECOND LEVEL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

FIRE PROTECTION DEMOLITION NOTES:

1. THE CONTRACTOR SHALL REVIEW THE ENTIRETY OF THE DRAWINGS AND SPECITICATIONS BEFORE ANY WORK IS STARTED.
2. ALL WORK TO BE DEMOLISHED IS NOTED WITH DASHED LINES, DEMOLITION KEYNOTE, HATCHING OR ANY OF THE THREE. REVIEW THE DEMOLITINON KEYNOTES PRIOR TO BEGINNING THE WORK.
3. EXCEPT FOR WHEN NOTED ON DRAWINGS, FIRE PROTECTION EQUIPMENT AND SYSTEMS NOTED TO BE REMOVED SHALL BE ENTIRELY DEMOLISHED, AND SHALL BECOME PROPERTY OF THE CONTRACTOR TO REMOVE FROM THE SITE, WHILE FOLLOWING ALL CODES ARE REQUIREMENTS.
4. ITEMS NOTED FOR SALVAGE SHALL BE REMOVED WITH DUE CARE TAKEN AND RETUNED TO THE OWNER IN A LIKE CONDITION TO IT'S PREVIOUS STATE.
5. DEMOLITION SHALL BE COORDINATED WITH OTHER TRADES. THE CONTRACTOR IS RESPOINSIBLE FOR ANY EXISTING MATERIALS TO REMAIN THAT ARE DAMAGED IN THE DEMOLITION PROCESS.
6. THESE DRAWINGS ARE COMPILED BY THE ARCHITECT AND ENGINEER FROM THE OWNER'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS, AREAS OF WORK THAT DIFFER GREATLY FROM THE DEMOLITION PLAN SHALL GENERATE AND RFI TO THE ENGINEER.
7. ALL FIRE PROTECTION EQUIPMENT AND SYSTEMS LOCATED IN THE AREA OF DEMOLITION BUT USED TO SERVE ARES THAT ARE NOT TO BE DEMOLISHED SHALL BE LEFT EXISTING TO REMAIN OR RELOCATED IN SUCH A WAY AS TO MAINTAIN THE ORIGINAL DESIGN INTENT OF THE SYSTEM.

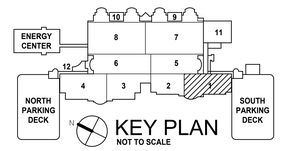
FIRE PROTECTION DEMOLITION KEYNOTES

ID	DESCRIPTION
FD1	EXISTING 6" SPRINKLER / STANDPIPE RISER #2 TO REMAIN.
FD2	EXISTING 2" RISER DRAIN TO REMAIN.
FD3	EXISTING 2 1/2" FIRE PROTECTION TO SPRINKLER ZONE 2.1A.
FD4	REMOVE ALL EXISTING FIRE PROTECTION SPRINKLER PIPING, HEADS AND HANGERS SERVING SPRINKLER ZONE 2.1A.
FD5	EXISTING 6" SPRINKLER / STANDPIPE RISER #12 TO REMAIN.
FD6	ALL FIRE PROTECTION PIPING FROM RISER #12 TO REMAIN.
FD7	EXISTING HOSE VALVE / FIRE EXTINGUSER CABINETS TO REMAIN.
FD8	REMOVE EXISTING HOSE VALVE / FIRE EXTINGUSER CABINETS AS INDICATED.
FD9	REMOVE SPRINKLER HEADS IN THIS AREA EXISTING PIPING SHALL BE CAPPED OR EXTENDED TO NEW HEADS, SEE SHEET FP102 FOR NEW WORK.

FIRE PROTECTION DEMOLITION LEGEND

FIRE ZONE 2.1A

FIRE ZONE 2.2



KEY PLAN
NOT TO SCALE

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Drawing Title: FP DEMO PLAN - SECOND LEVEL- ZONE 1
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: JDL/AS
Drawn: REF
Project Number: 553-21-100
Building Number:
Drawing Number: FD102

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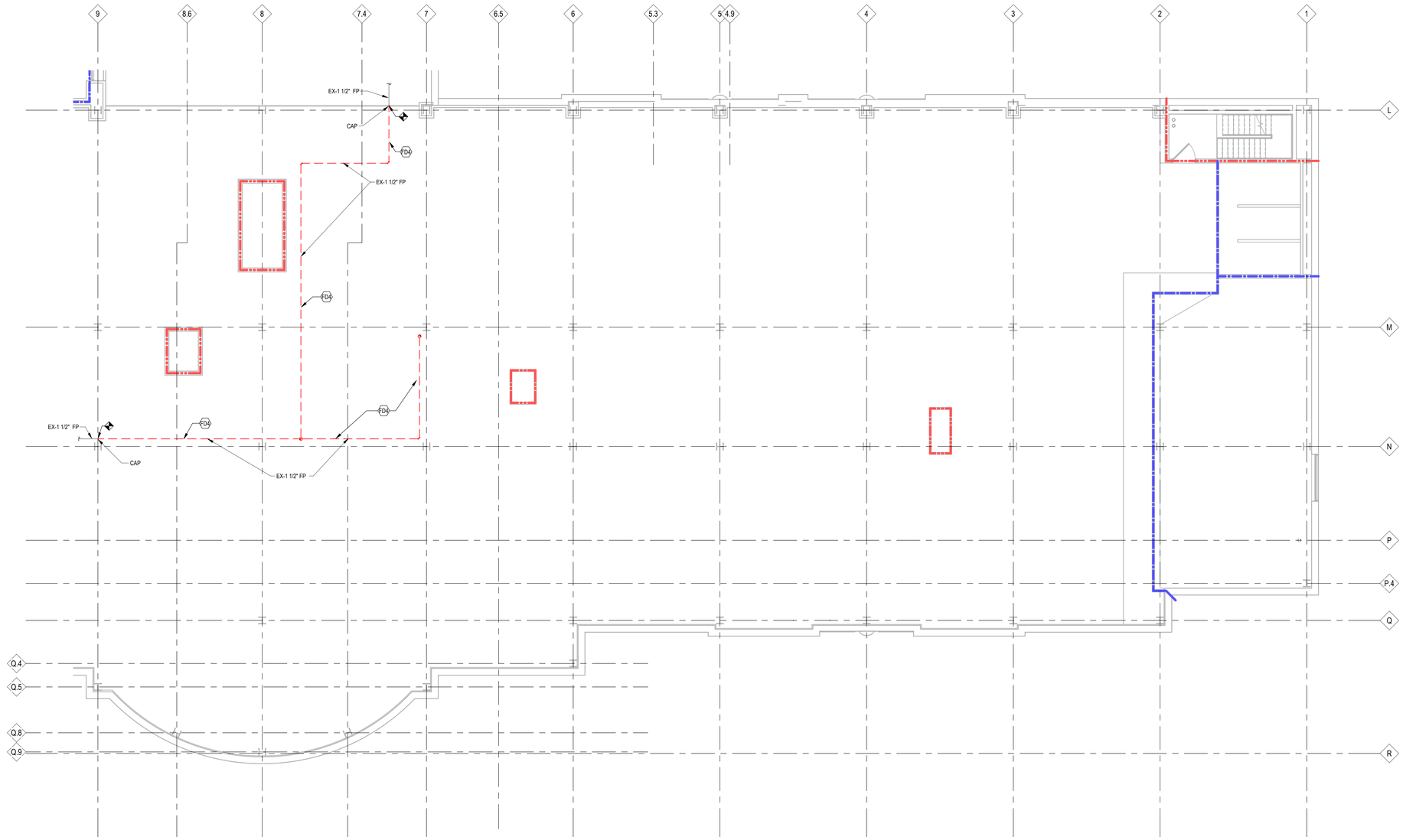


FIRE PROTECTION DEMOLITION PLAN - SECOND LEVEL INTERSTITAL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

FIRE PROTECTION DEMOLITION NOTES:

1. THE CONTRACTOR SHALL REVIEW THE ENTIRETY OF THE DRAWINGS AND SPECITICATIONS BEFORE ANY WORK IS STARTED.
2. ALL WORK TO BE DEMOLISHED IS NOTED WITH DASHED LINES, DEMOLITION KEYNOTE, HATCHING OR ANY OF THE THREE. REVIEW THE DEMOLITINON KEYNOTES PRIOR TO BEGINNING THE WORK.
3. EXCEPT FOR WHEN NOTED ON DRAWINGS, FIRE PROTECTION EQUIPMENT AND SYSTEMS NOTED TO BE REMOVED SHALL BE ENTIRELY DEMOLISHED, AND SHALL BECOME PROPERTY OF THE CONTRACTOR TO REMOVE FROM THE SITE. WHILE FOLLOWING ALL CODES ARE REQUIREMENTS.
4. ITEMS NOTED FOR SALVAGE SHALL BE REMOVED WITH DUE CARE TAKEN AND RETUNED TO THE OWNER IN A LIKE CONDITION TO IT'S PREVIOUS STATE.
5. DEMOLITION SHALL BE COORDINATED WITH OTHER TRADES. THE CONTRACTOR IS RESPOINSIBLE FOR ANY EXISTING MATERIALS TO REMAIN THAT ARE DAMAGED IN THE DEMOLITION PROCESS.
6. THESE DRAWINGS ARE COMPILED BY THE ARCHITECT AND ENGINEER FROM THE OWNER'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS. AREAS OF WORK THAT DIFFER GREATLY FROM THE DEMOLITION PLAN SHALL GENERATE AND RFI TO THE ENGINEER.
7. ALL FIRE PROTECTION EQUIPMENT AND SYSTEMS LOCATED IN THE AREA OF DEMOLITION BUT USED TO SERVE ARES THAT ARE NOT TO BE DEMOLISHED SHALL BE LEFT EXISTING TO REMAIN OR RELOCATED IN SUCH A WAY AS TO MAINTAIN THE ORIGINAL DESIGN INTENT OF THE SYSTEM.

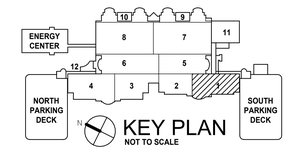
FIRE PROTECTION DEMOLITION KEYNOTES

ID	DESCRIPTION
FD4	REMOVE ALL EXISTING FIRE PROTECTION SPRINKLER PIPING, HEADS AND HANGERS SERVING SPRINKLER ZONE 2.1A.

FIRE PROTECTION DEMOLITION LEGEND

FIRE ZONE 2.1A

FIRE ZONE 2.2



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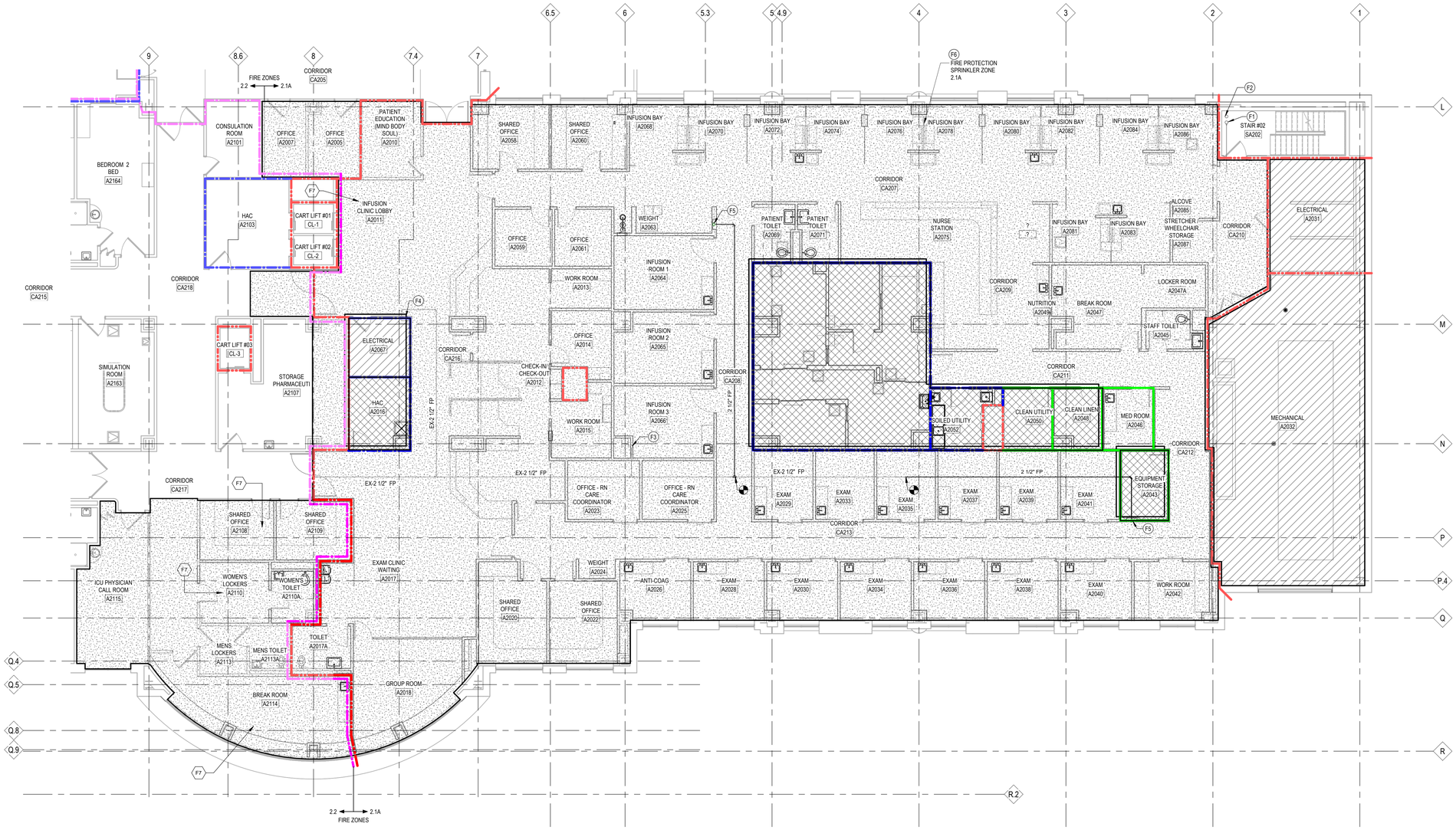


FIRE PROTECTION PLAN - SECOND LEVEL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

FIRE PROTECTION GENERAL NOTES:

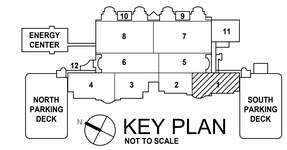
1. INSTALLATION OF NEW FIRE SUPPRESSION SYSTEM AND ALTERATIONS TO EXISTING SYSTEM SHALL BE MADE BY A CERTIFIED FIRE SUPPRESSION CONTRACTOR AND SHALL COMPLY WITH NFPA 13 AND ALL FM GLOBAL DATA SHEETS. MOST STRINGENT SHALL GOVERN.
2. COORDINATE WITH ARCHITECTURAL, ELECTRICAL, SHEET METAL, AND ALL OTHER TRADES PRIOR TO ROUGH-IN. ALL CONFLICTS WITH FINISHES, ADJACENT CONSTRUCTION AND CONSTRUCTION DOCUMENTS ARE TO GENERATE AN RFI FROM THE FIRE PROTECTION CONTRACTOR TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK.
3. ALL ABOVE CEILING SYSTEMS AND COMPONENTS (INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, ETC.) SHALL BE COORDINATED SUCH THAT THE SYSTEMS ARE PROPERLY INTEGRATED IN THE SPACE PROVIDED ABOVE CEILING AT THE CEILING HEIGHTS NOTED. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO COORDINATE PATHWAYS WITHIN THE SPACE PROVIDED. CEILING HEIGHTS WILL NOT BE MODIFIED.
4. PIPING SHOWN INDICATES GENERAL ROUTING FOR SPRINKLER MAINS. COORDINATE WITH ARCHITECTURAL DRAWINGS.
5. ALL EXTERIOR WALL PENETRATIONS FOR VALVE OPERATORS, DRAINS, TEST PORTS, ETC. SHALL BE SEALED WEATHERTIGHT.
6. REFER TO SPECIFICATION SECTION 211313-WET PIPE SPRINKLER SYSTEMS FOR ADDITIONAL INFORMATION
7. FIRE PROTECTION LAYOUT SHOWS REQUIRED PROTECTION LEVELS INDICATED BY HATCHED AREA(S) AND SUGGESTED LOCATIONS FOR OTHER REQUIRED SYSTEM COMPONENTS.

FIRE PROTECTION LEGEND

- ALL UNSHADED AREAS HAVE EXISTING FIRE PROTECTION THAT IS TO REMAIN.
- LIGHT HAZARD: MINIMUM 0.10 GPM/SQFT OVER THE MOST REMOTE 1500 SQFT.
- ORDINARY HAZARD, GROUP 1: MINIMUM 0.15 GPM/SQFT OVER THE MOST REMOTE 1500 SQFT
- ORDINARY HAZARD, GROUP 2: MINIMUM 0.20 GPM/SQFT OVER THE MOST REMOTE 1500 SQFT

FIRE PROTECTION KEYNOTES

ID	DESCRIPTION
F1	EXISTING 6" SPRINKLER / STANDPIPE RISER #2. OBTAIN FLOW TEST INFORMATION PRIOR TO BEGINNING THE DESIGN.
F2	EXISTING 2" RISER DRAIN.
F3	EXISTING 6" SPRINKLER / STANDPIPE RISER #12.
F4	EXISTING HOSE VALVE / FIRE EXTINGUSER CABINET.
F5	NEW HOSE VALVE / FIRE EXTINGUSER CABINET. EXTEND NEW 2 1/2" FIRE PROTECTION LINE AS INDICATED.
F6	PROVIDE A NEW FIRE PROTECTION SPRINKLER SYSTEM THROUGHOUT SPRINKLER ZONE 2.1A. INCLUDE ALL INCLUDE ALL SPRINKLER PIPING, FITTINGS, HANGERS, VALVES, SPRINKLER HEADS AND ACCESSORIES. DESIGN TO HAZARD CLASSIFICATIONS INDICATED.
F7	THIS AREA IS SERVED FROM FIRE PROTECTION SPRINKLER ZONE 2.2. REPLACE SPRINKLER HEADS AND REWORK PIPING TO ACCOMODATE THE NEW ROOM LAYOUT.



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Building Number:
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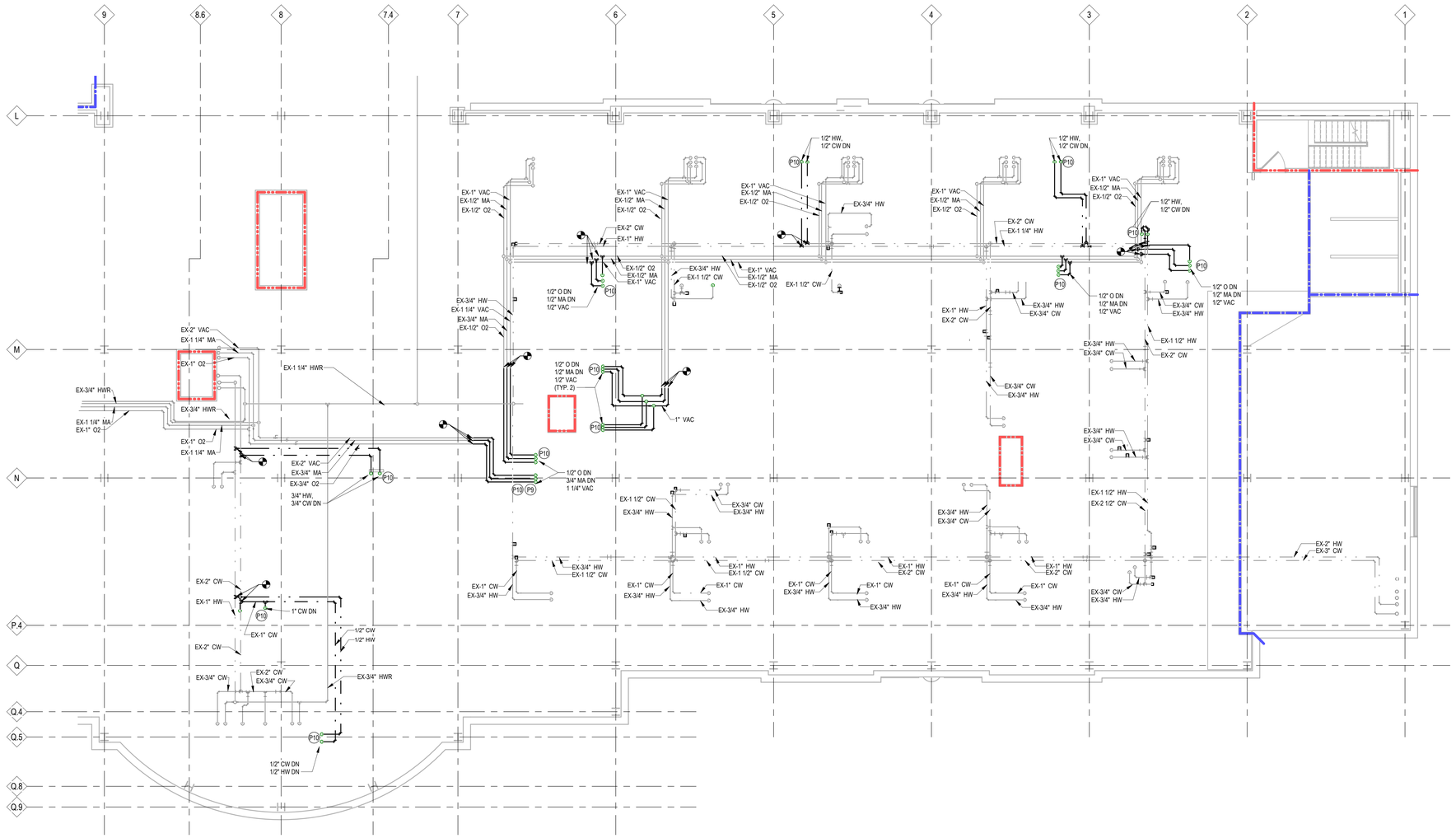


PLUMBING PIPING PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

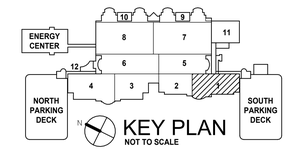
NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

PLUMBING GENERAL NOTES:

1. IF COMPLIANCE WITH TWO OR MORE DIFFERING STANDARDS, REQUIREMENTS, DRAWINGS OR SPECIFICATIONS, OR ANY COMBINATION THEREOF, IS SPECIFIED AND THESE ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. THE MOST STRINGENT REQUIREMENT WILL BE THE BETTER QUALITY OR GREATER QUANTITY OF WORK, AND WILL TYPICALLY BE THE MORE EXPENSIVE OPTION. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
2. THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, INDICATED NUMERIC VALUES ARE MINIMUM OR MAXIMUM, AS APPROPRIATE, FOR THE CONTEXT OF REQUIREMENTS. REFER UNCERTAINTIES TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
3. DESIGN DOCUMENTS MUST BE REPRODUCED IN THEIR ENTIRETY, INCLUDING ALL PLANS, SPECIFICATIONS, AND FRONT END DOCUMENTS.
4. ONLY COMPLETE DOCUMENT SETS ARE TO BE DISTRIBUTED TO SUBCONTRACTORS AND SUPPLIERS OF THE CONTRACTOR DURING BIDDING OR CONSTRUCTION.
5. FAILURE TO REVIEW AND COMPLY WITH A FULL SET OF CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS A VALID REASON FOR FAILURE TO MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
6. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, ORDINANCES, AND LAWS AND SHALL BE OF SIMILAR QUALITY, MATERIAL, AND INSTALLATION METHODOLOGY AS SIMILAR WORK IN EXISTING FACILITY.
7. ALL INSULATION SHALL BE PRESUMED ASBESTOS CONTAMINATED MATERIAL (PACM) UNLESS OTHERWISE INDICATED OR LABELED. THE CONTRACTOR SHALL ABATE ALL ASBESTOS BY APPROVED METHODS. CONSULT WITH THE OWNER'S REPRESENTATIVE REGARDING LOCATION AND EXTEND OF PACM PRIOR TO THE WORK.
8. HAZARDOUS MATERIALS ARE PRESENT IN CONSTRUCTION TO BE SELECTIVELY DEMOLISHED. A REPORT ON THE PRESENCE OF HAZARDOUS MATERIALS IS ON FILE FOR REVIEW AND USE. EXAMINE REPORT TO BECOME AWARE OF LOCATIONS WHERE HAZARDOUS MATERIALS ARE PRESENT.
9. ALL ABOVE CEILING SYSTEMS AND COMPONENTS (INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, ETC.) SHALL BE COORDINATED SUCH THAT THE SYSTEMS ARE PROPERLY INTEGRATED IN THE SPACE PROVIDED ABOVE CEILING AT THE CEILING HEIGHTS NOTED. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO COORDINATE PATHWAYS WITHIN THE SPACE PROVIDED. CEILING HEIGHTS WILL NOT BE MODIFIED.
10. COORDINATE LOCATIONS OF ALL FIXTURES WITH ARCHITECTURAL AND ELECTRICAL PRIOR TO ROUGH-IN. ALL CONFLICTS WITH FINISHES, ADJACENT CONSTRUCTION, AND CONSTRUCTION DOCUMENTS ARE TO GENERATE AN RFI FROM THE MECHANICAL CONTRACTOR TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING AND COMPLETION OF WORK.
11. HINGED STEEL ACCESS PANELS SHALL BE FURNISHED AND INSTALLED FOR ALL ABOVE CEILING EQUIPMENT REQUIRING ACCESS OR SERVICE (VALVES, ACCESSORIES, ETC.) IN GYPSUM CEILINGS. PANELS SHALL BE KEYED FOR ACCESS BY MAINTENANCE STAFF ONLY, AND FINISHED WITH WHITE BAKED-ON ENAMEL. MECHANICAL CONTRACTOR SHALL CONSOLIDATE ABOVE CEILING ACCESS REQUIREMENTS TO LIMIT THE NUMBER OF PANELS.
12. ALL SANITARY AND STORM PIPING SHALL BE INSTALLED TO MAINTAIN 1/8" SLOPE FOR 3" OR LARGER AND 1/4" PER FOOT FOR 2" OR SMALLER. TYPICAL U.N.O.
13. ALL SANITARY AND STORM RISERS SHALL BE FITTED WITH ACCESSIBLE CLEANOUT AT BASE. PROVIDE CLEANOUT COVER/WALL PLATE IN FINISHED AREAS. PROVIDE BOLLARDS IN EXPOSED AREAS. COORDINATE EXACT LOCATION WITH STEEL AND CONCRETE CONTRACTORS TO ENSURE BOLLARDS ARE PROVIDED.
14. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING ALL NEW PLUMBING PENETRATIONS THROUGH RATED ASSEMBLIES.
15. PLUMBING CONTRACTOR SHALL PROVIDE WATER PROOF SHEET METAL CAP, INSULATED (EQUIVALENT TO ROOF) FOR ALL DEMOLISHED ROOF PENETRATIONS.
16. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ISOLATION VALVES AT ALL WATER CONSUMING FIXTURES. AND LOCATE VALVES TO ALLOW FOR ACCESS WITHIN 3 ' AFTER CONSTRUCTION IS COMPLETE.
17. ALL PLUMBING EQUIPMENT SHALL BE PROVIDED WITH MOTOR STARTERS COMPATIBLE WITH CONTROLS SYSTEM. COORDINATE WITH CONTROLS AND ELECTRICAL CONTRACTORS.
18. COMPLETE LAYOUT DRAWINGS ARE REQUIRED BY SPECIFICATION SECTION 220511, 1.4 SUBMITTALS. CONSTRUCTION SHALL NOT START ON ANY SYSTEM UNTIL LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE VA.

PLUMBING KEYNOTES

ID	DESCRIPTION
P9	1/2" O2, 3/4" MA AND 1 1/4" VAC DOWN TO NEW MEDICAL GAS ZONE VALVE BOX (MG21) AND MEDICAL GAS ALARM PANEL (MGAP21).
P10	CORE DRILL FLOOR FOR NEW PIPING AND FIRE STOP AROUND PIPING.



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Issue Date: **10-JAN-2025**
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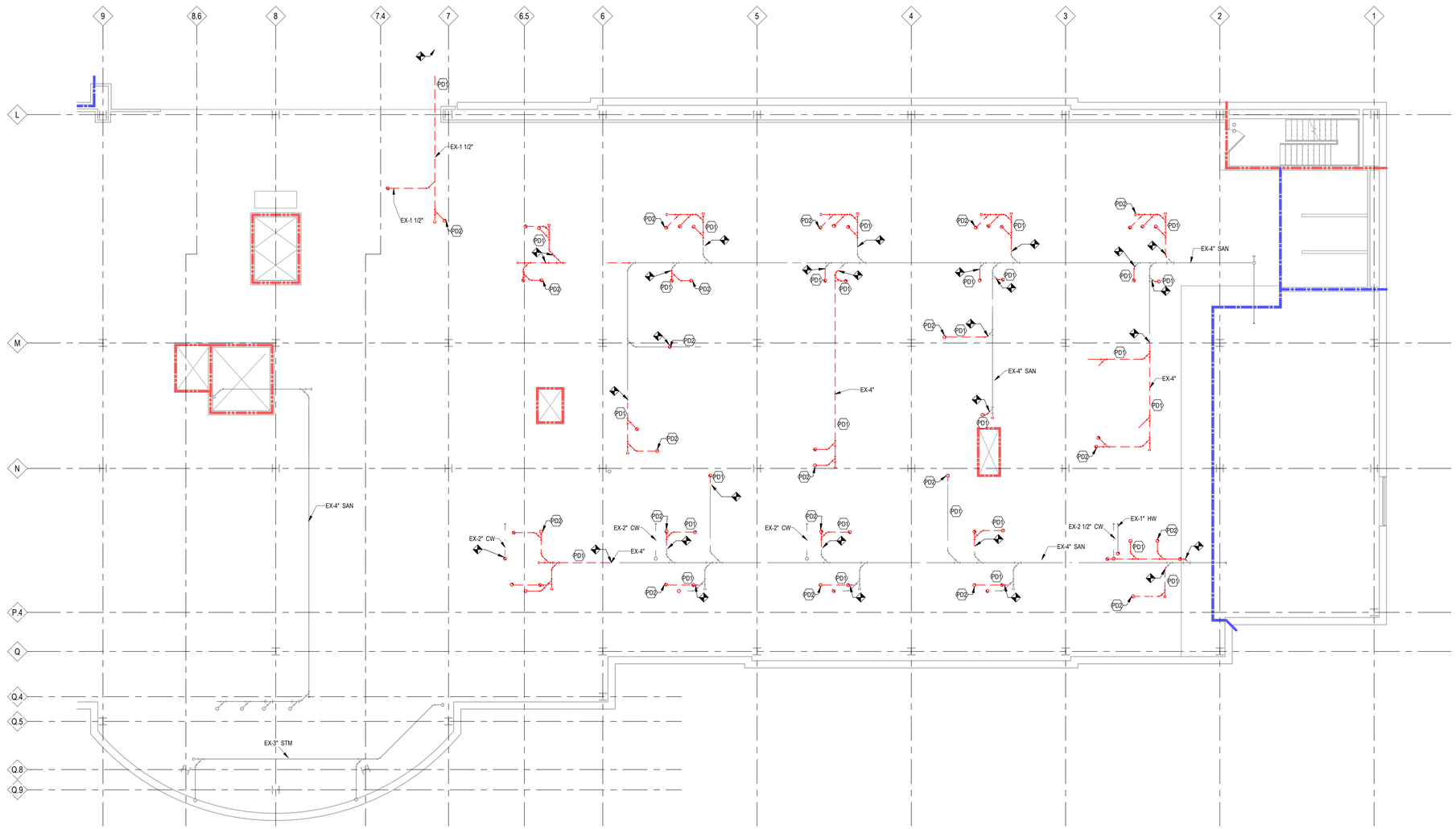

PLUMBING DEMOLITION PLAN - FIRST LEVEL INTERSTITAL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
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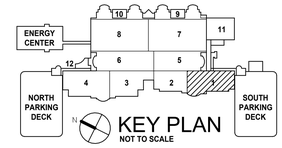
PLUMBING DEMOLITION NOTES:

1. THE CONTRACTOR SHALL REVIEW THE ENTIRETY OF THE DRAWINGS AND SPECITICATIONS BEFORE ANY WORK IS STARTED.
2. ALL WORK TO BE DEMOLISHED IS NOTED WITH DASHED LINES, OR A DEMOLITION KEYNOTE, OR BOTH. REVIEW THE DEMOLITINO KEYNOTES PRIOR TO BEGINNING THE WORK.
3. EXCEPT FOR WHEN NOTED ON DRAWINGS, PLUMBING FIXTURES, EQUIPMENT, AND SYSTEMS NOTED TO BE REMOVED SHALL BE ENTIRELY DEMOLISHED, AND SHALL BECOME PROPERTY OF THE CONTRACTOR TO REMOVE FROM THE SITE, WHILE FOLLOWING ALL CODES ARE REQUIREMENTS.
4. ITEMS NOTED FOR SALVAGE SHALL BE REMOVED WITH DUE CARE TAKEN AND RETUNED TO THE OWNER IN A LIKE CONDITION TO IT'S PREVIOUS STATE.
5. DEMOLITION SHALL BE COORDINATED WITH OTHER TRADES. THE CONTRACTOR IS RESPOINSIBLE FOR ANY EXISTING MATERIALS TO REMAIN THAT ARE DAMAGED IN THE DEMOLITION PROCESS.
6. THESE DRAWINGS ARE COMPILED BY THE ARCHITECT AND ENGINEER FROM THE OWNER'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS. AREAS OF WORK THAT DIFFER GREATLY FROM THE DEMOLITION PLAN SHALL GENERATE AND RFI TO THE ENGINEER.
7. PLUMBING FIXTURES, EQUIPMENT, AND SYSTEMS LOCATED IN THE AREA OF DEMOLITION RUT USED TO SERVE ARES THAT ARE NOT TO BE DEMOLISHED SHALL BE LEFT EXISTING TO REMAIN OR RELOCATED IN SUCH A WAY AS TO MAINTAIN THE ORIGINAL DESIGN INTENT OF THE SYSTEM.

PLUMBING DEMOLITION KEYNOTES

ID	DESCRIPTION
PD1	REMOVE EXISTING SANITARY PIPING AS INDICATED. CAP UNUSED PIPE AT DEMOLITION TERMINATION POINT.
PD2	REMOVE EXISTING SANITARY PIPING THRU SECOND FLOOR. PATCH/REPAIR FLOOR OPENINGS TO MATCH EXISTING CONSTRUCTION. TYPICAL OF ALL SANITARY THROUGH FLOOR DEMOLITION.



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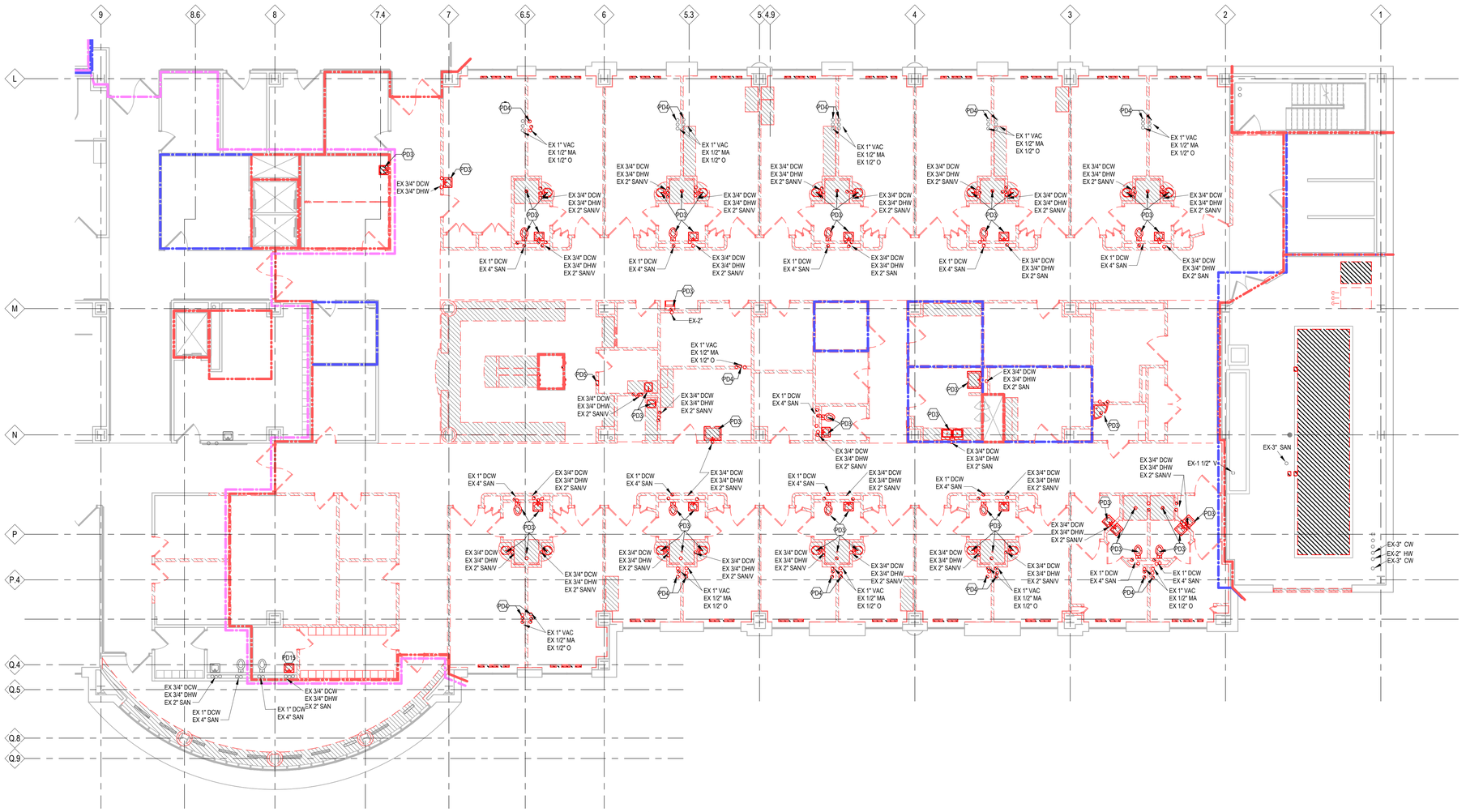


PLUMBING DEMOLITION PLAN - SECOND LEVEL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER
- EXISTING 2-HR. FIRE BARRIER

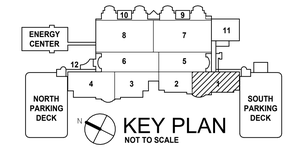
NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

PLUMBING DEMOLITION NOTES:

1. THE CONTRACTOR SHALL REVIEW THE ENTIRETY OF THE DRAWINGS AND SPECITICATIONS BEFORE ANY WORK IS STARTED.
2. ALL WORK TO BE DEMOLISHED IS NOTED WITH DASHED LINES, OR A DEMOLITION KEYNOTE, OR BOTH. REVIEW THE DEMOLITIN KEYNOTES PRIOR TO BEGINNING THE WORK.
3. EXCEPT FOR WHEN NOTED ON DRAWINGS, PLUMBING FIXTURES, EQUIPMENT, AND SYSTEMS NOTED TO BE REMOVED SHALL BE ENTIRELY DEMOLISHED, AND SHALL BECOME PROPERTY OF THE CONTRACTOR TO REMOVE FROM THE SITE, WHILE FOLLOWING ALL CODES ARE REQUIREMENTS.
4. ITEMS NOTED FOR SALVAGE SHALL BE REMOVED WITH DUE CARE TAKEN AND RETUNED TO THE OWNER IN A LIKE CONDITION TO IT'S PREVIOUS STATE.
5. DEMOLITION SHALL BE COORDINATED WITH OTHER TRADES. THE CONTRACTOR IS RESPOINSIBLE FOR ANY EXISTING MATERIALS TO REMAIN THAT ARE DAMAGED IN THE DEMOLITION PROCESS.
6. THESE DRAWINGS ARE COMPILED BY THE ARCHITECT AND ENGINEER FROM THE OWNER'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS. AREAS OF WORK THAT DIFFER GREATLY FROM THE DEMOLITION PLAN SHALL GENERATE AND RFI TO THE ENGINEER.
7. PLUMBING FIXTURES, EQUIPMENT, AND SYSTEMS LOCATED IN THE AREA OF DEMOLITION BUT USED TO SERVE ARES THAT ARE NOT TO BE DEMOLISHED SHALL BE LEFT EXISTING TO REMAIN OR RELOCATED IN SUCH A WAY AS TO MAINTAIN THE ORIGINAL DESIGN INTENT OF THE SYSTEM.

PLUMBING DEMOLITION KEYNOTES

ID	DESCRIPTION
PD3	REMOVE ALL EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING. PATCH FLOOR OPENINGS TO MATCH EXISTING CONSTRUCTION.
PD4	REMOVE EXISTING MEDICAL GAS OUTLETS AND PIPING.
PD5	REMOVE EXISTING MEDICAL GAS ALARM PANEL AND VALVE BOX. EXTEND CONTROL WIRING FOR ALARM PANEL TO NEW LOCATION. SEE SHEET P-102.
PD15	REMOVE EXISTING PLUMBING FIXTURE. ALL EXISTING PIPING IS TO REMAIN AND TO BE PREPPED FOR NEW FIXTURE INSTALLATION.



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Drawing Title: DEMO PLAN - SECOND LEVEL - ZONE 1
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: JDL/AS
Drawn: REF
Project Number: 553-21-100
Building Number:
Drawing Number: PD102

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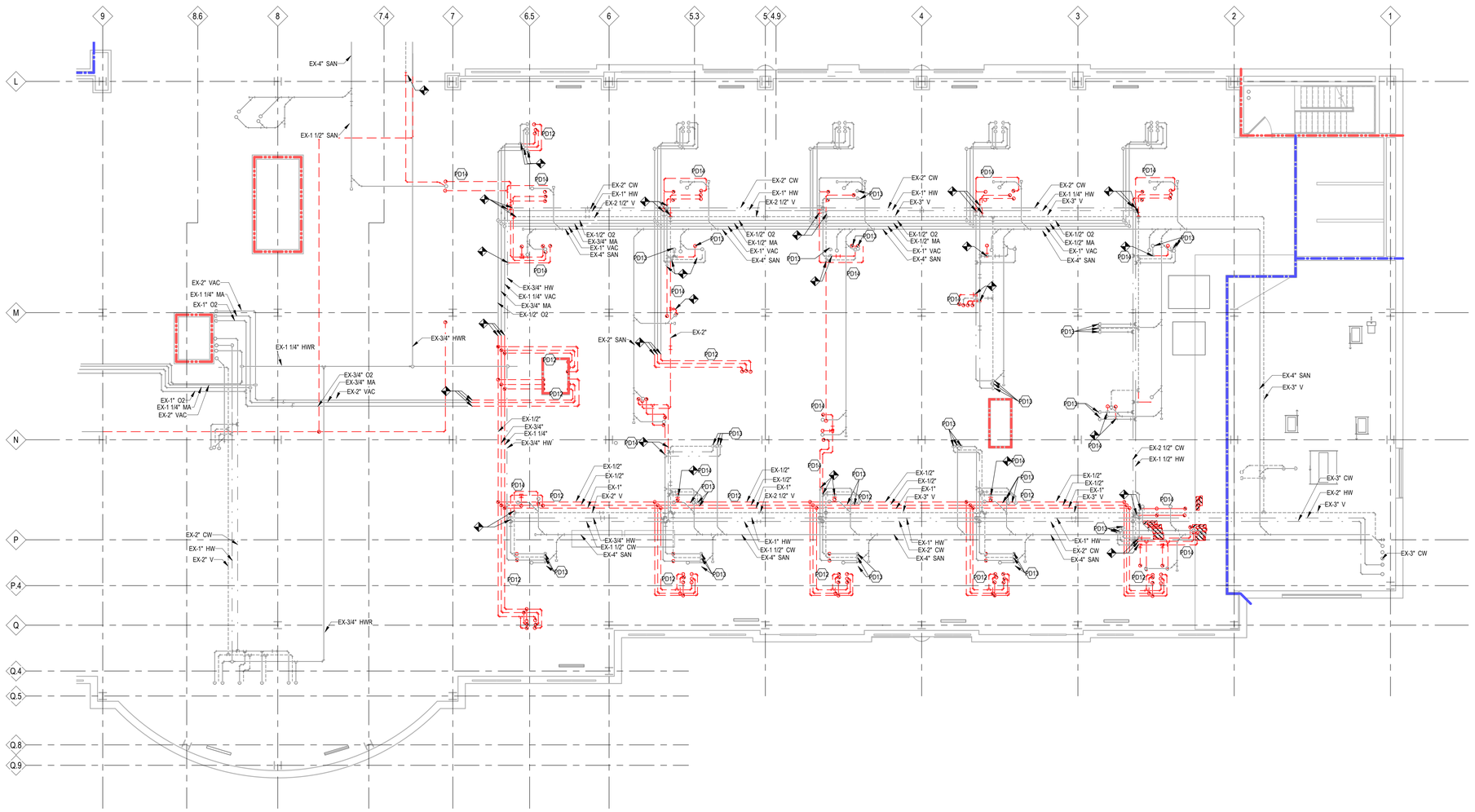

PLUMBING DEMOLITION PLAN- SECOND LEVEL INTERSTITIAL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

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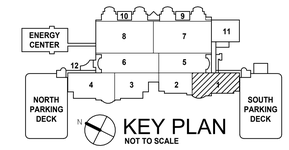
PLUMBING DEMOLITION KEYNOTES

ID	DESCRIPTION
PD12	REMOVE EXISTING MEDICAL GAS PIPING (02, MA, AND VAC) AS INDICATED. PATCH FLOOR OPENINGS TO MATCH EXISTING.
PD13	REMOVE EXISTING CW, HW, AND SAN FROM BELOW THE FLOOR TO THE PLUMBING FIXTURE. PIPING IN INTERSITIAL SHALL REMAIN TO SUPPLY NEW FIXTURE.
PD14	REMOVE EXISTING CW, HW, AND SAN AS INDICATED. PATCH FLOOR OPENINGS TO MATCH EXISTING CONSTRUCTION.



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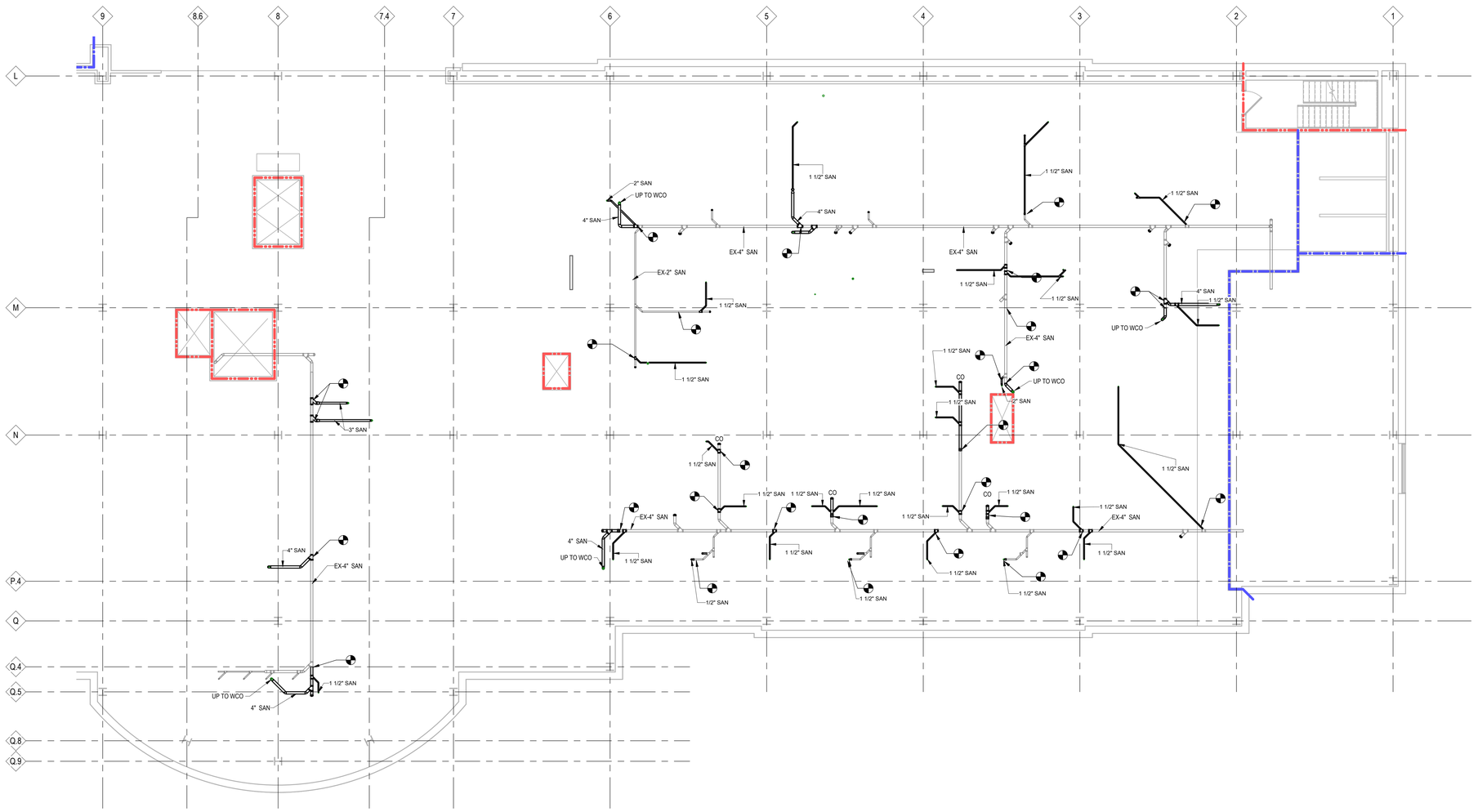

PLUMBING DWV PLAN - FIRST LEVEL INTERSTITIAL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

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NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

PLUMBING GENERAL NOTES:

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2. THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, INDICATED NUMERIC VALUES ARE MINIMUM OR MAXIMUM, AS APPROPRIATE, FOR THE CONTEXT OF REQUIREMENTS. REFER UNCERTAINTIES TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
3. DESIGN DOCUMENTS MUST BE REPRODUCED IN THEIR ENTIRETY, INCLUDING ALL PLANS, SPECIFICATIONS, AND FRONT END DOCUMENTS.
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5. FAILURE TO REVIEW AND COMPLY WITH A FULL SET OF CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS A VALID REASON FOR FAILURE TO MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
6. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, ORDINANCES, AND LAWS AND SHALL BE OF SIMILAR QUALITY, MATERIAL, AND INSTALLATION METHODOLOGY AS SIMILAR WORK IN EXISTING FACILITY.
7. ALL INSULATION SHALL BE PRESUMED ASBESTOS CONTAMINATED MATERIAL (PACM) UNLESS OTHERWISE INDICATED OR LABELED. THE CONTRACTOR SHALL ABATE ALL ASBESTOS BY APPROVED METHODS. CONSULT WITH THE OWNER'S REPRESENTATIVE REGARDING LOCATION AND EXTEND OF PACM PRIOR TO THE WORK.
8. HAZARDOUS MATERIALS ARE PRESENT IN CONSTRUCTION TO BE SELECTIVELY DEMOLISHED. A REPORT ON THE PRESENCE OF HAZARDOUS MATERIALS IS ON FILE FOR REVIEW AND USE. EXAMINE REPORT TO BECOME AWARE OF LOCATIONS WHERE HAZARDOUS MATERIALS ARE PRESENT.
9. ALL ABOVE CEILING SYSTEMS AND COMPONENTS (INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, ETC.) SHALL BE COORDINATED SUCH THAT THE SYSTEMS ARE PROPERLY INTEGRATED IN THE SPACE PROVIDED ABOVE CEILING AT THE CEILING HEIGHTS NOTED. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO COORDINATE PATHWAYS WITHIN THE SPACE PROVIDED. CEILING HEIGHTS WILL NOT BE MODIFIED.
10. COORDINATE LOCATIONS OF ALL FIXTURES WITH ARCHITECTURAL AND ELECTRICAL PRIOR TO ROUGH-IN. ALL CONFLICTS WITH FINISHES, ADJACENT CONSTRUCTION, AND CONSTRUCTION DOCUMENTS ARE TO GENERATE AN RFI FROM THE MECHANICAL CONTRACTOR TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING AND COMPLETION OF WORK.
11. HINGED STEEL ACCESS PANELS SHALL BE FURNISHED AND INSTALLED FOR ALL ABOVE CEILING EQUIPMENT REQUIRING ACCESS OR SERVICE (VALVES, ACCESSORIES, ETC.) IN GYPSUM CEILINGS. PANELS SHALL BE KEYED FOR ACCESS BY MAINTENANCE STAFF ONLY, AND FINISHED WITH WHITE BAKED-ON ENAMEL. MECHANICAL CONTRACTOR SHALL CONSOLIDATE ABOVE CEILING ACCESS REQUIREMENTS TO LIMIT THE NUMBER OF PANELS.
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13. ALL SANITARY AND STORM RISERS SHALL BE FITTED WITH ACCESSIBLE CLEANOUT AT BASE. PROVIDE CLEANOUT COVER/WALL PLATE IN FINISHED AREAS. PROVIDE BOLLARDS IN EXPOSED AREAS. COORDINATE EXACT LOCATION WITH STEEL AND CONCRETE CONTRACTORS TO ENSURE BOLLARDS ARE PROVIDED.
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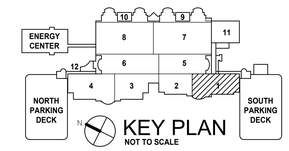
17. ALL PLUMBING EQUIPMENT SHALL BE PROVIDED WITH MOTOR STARTERS COMPATIBLE WITH CONTROLS SYSTEM. COORDINATE WITH CONTROLS AND ELECTRICAL CONTRACTORS.
18. COMPLETE LAYOUT DRAWINGS ARE REQUIRED BY SPECIFICATION SECTION 220511, 1.4 SUBMITTALS. CONSTRUCTION SHALL NOT START ON ANY SYSTEM UNTIL LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE VA.



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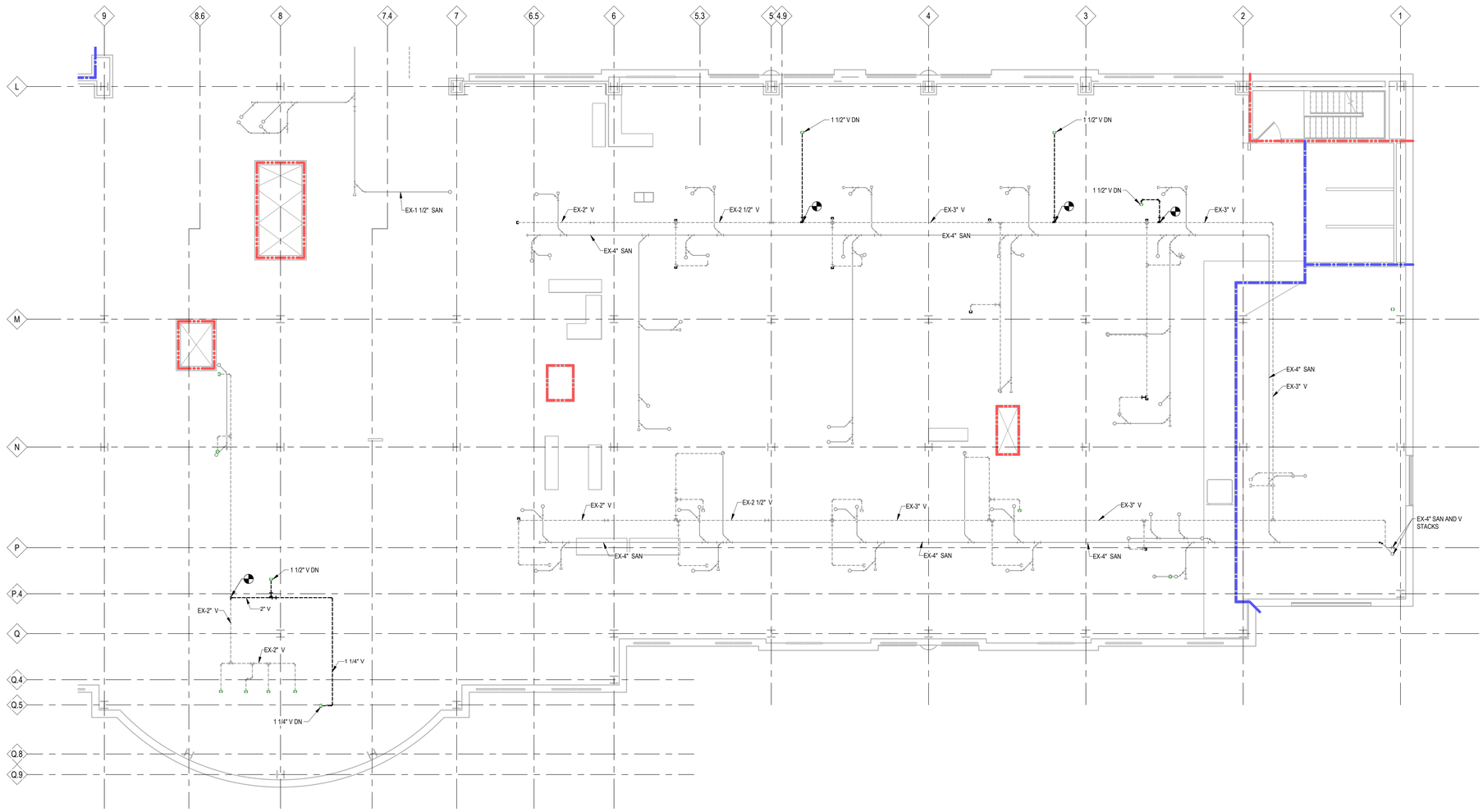

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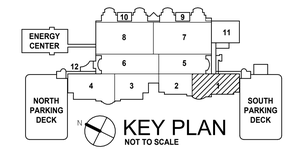

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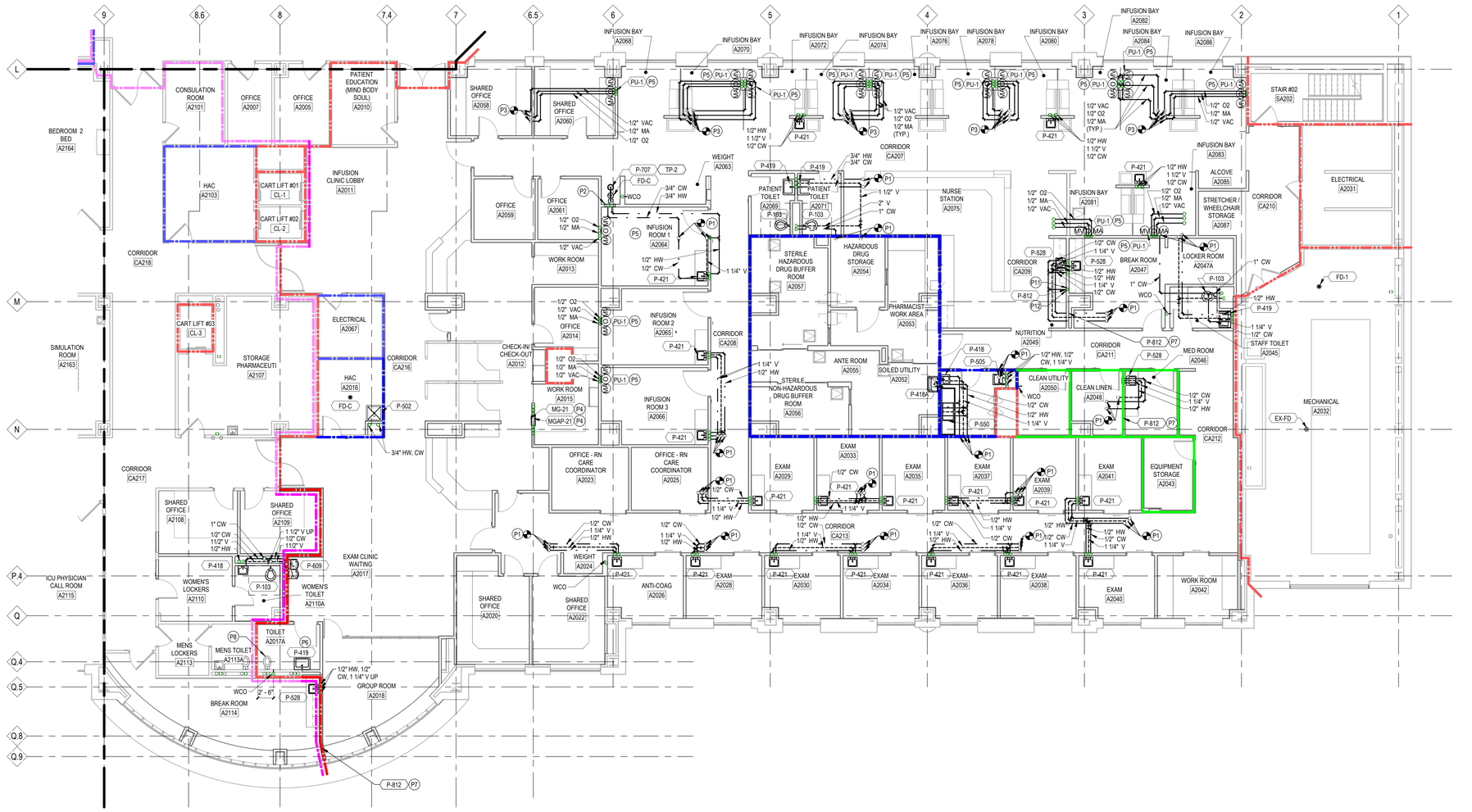

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11. HINGED STEEL ACCESS PANELS SHALL BE FURNISHED AND INSTALLED FOR ALL ABOVE CEILING EQUIPMENT REQUIRING ACCESS OR SERVICE (VALVES, ACCESSORIES, ETC.) IN GYPSUM CEILINGS. PANELS SHALL BE KEYED FOR ACCESS BY MAINTENANCE STAFF ONLY, AND FINISHED WITH WHITE BAKED-ON ENAMEL. MECHANICAL CONTRACTOR SHALL CONSOLIDATE ABOVE CEILING ACCESS REQUIREMENTS TO LIMIT THE NUMBER OF PANELS.
12. ALL SANITARY AND STORM PIPING SHALL BE INSTALLED TO MAINTAIN 1/8" SLOPE FOR 3" OR LARGER AND 1/4" PER FOOT FOR 2" OR SMALLER. TYPICAL U.N.O.
13. ALL SANITARY AND STORM RISERS SHALL BE FITTED WITH ACCESSIBLE CLEANOUT AT BASE. PROVIDE CLEANOUT COVER/WALL PLATE IN FINISHED AREAS. PROVIDE BOLLARDS IN EXPOSED AREAS. COORDINATE EXACT LOCATION WITH STEEL AND CONCRETE CONTRACTORS TO ENSURE BOLLARDS ARE PROVIDED.
14. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING ALL NEW PLUMBING PENETRATIONS THROUGH RATED ASSEMBLIES.
15. PLUMBING CONTRACTOR SHALL PROVIDE WATER PROOF SHEET METAL CAP, INSULATED (EQUIVALENT TO ROOF) FOR ALL DEMOLISHED ROOF PENETRATIONS.
16. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ISOLATION VALVES AT ALL WATER CONSUMING FIXTURES, AND LOCATE VALVES TO ALLOW FOR ACCESS WITHIN 3 ' AFTER CONSTRUCTION IS COMPLETE.
17. ALL PLUMBING EQUIPMENT SHALL BE PROVIDED WITH MOTOR STARTERS COMPATIBLE WITH CONTROLS SYSTEM. COORDINATE WITH CONTROLS AND ELECTRICAL CONTRACTORS.
18. COMPLETE LAYOUT DRAWINGS ARE REQUIRED BY SPECIFICATION SECTION 220511, 1.4 SUBMITTALS. CONSTRUCTION SHALL NOT START ON ANY SYSTEM UNTIL LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE VA.

PLUMBING KEYNOTES

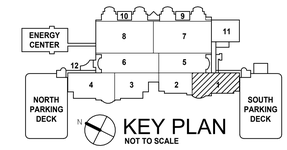
ID	DESCRIPTION
P1	CONNECT NEW PIPING TO EXISTING AT UNDERSIZE OF THE SECOND FLOOR INTERSTITIAL. ROUTE NEW PIPING IN CIELING SPACE AS HIGH AS POSSIBLE.
P2	MIXING VALVE CABINET. SEE THE "EMERGENCY FIXTURE-SHOWER" DETAIL ON SHEET P-501.
P3	CONNECT NEW PIPING (1/2" O2, 1/2" MA AND 1/2" VAC) TO EXISTING AT UNDERSIZE OF THE SECOND FLOOR INTERSTITIAL. ROUTE NEW PIPING IN CIELING SPACE AS HIGH AS POSSIBLE.
P4	MEDICAL GAS ZONE VALVE BOX (MGZ1) AND MEDICAL GAS ALARM PANEL (MGAP21) RECESSED IN WALL. EXTEND CONTROL WIRING FOR ALARM PANEL TO NEW LOCATION. SEE SHEET P-102.
P5	MEDICAL GASES FROM SECOND FLOOR INTERSTITIAL TO NEW INLET/OUTLETS WITHIN WALL.
P6	REPLACE EXISTING LAV.
P7	CW VALVE BOX IN THE WALL BEHIND THE REFRIGERATOR
P8	REPLACE THE EXISTING FLUSH VALVE TO MATCH P-103
P11	CW VALVE BOX AT 42" AFF. LOCATE BEHIND COUNTER MOUNTED ICE MAKER.
P12	EXTEND A 3/4" DRAIN FROM ICE MAKER TO THE P-528 SINK DRAIN. ROUTE PIPING THROUGH CABINETRY.

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - VIF WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

PLUMBING PLAN - SECOND LEVEL - ZONE 1
1/8" = 1'-0"



100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

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Drawing Title: PLUMBING PLAN - SECOND LEVEL - ZONE 1
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: JDL/AS
Drawn: REF
Project Number: 553-21-100
Building Number
Drawing Number: P-102

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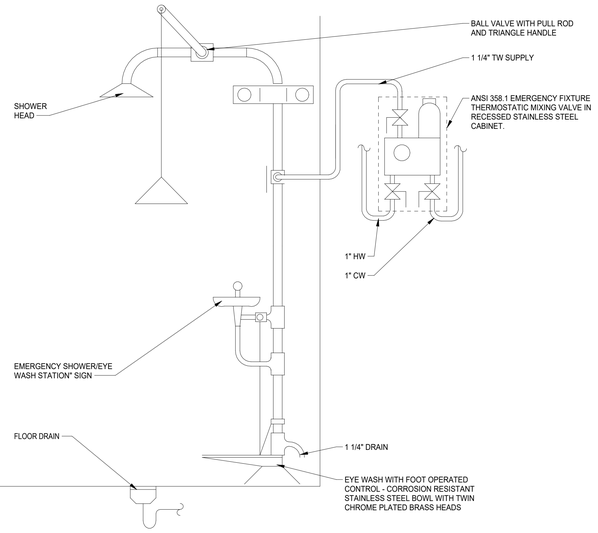
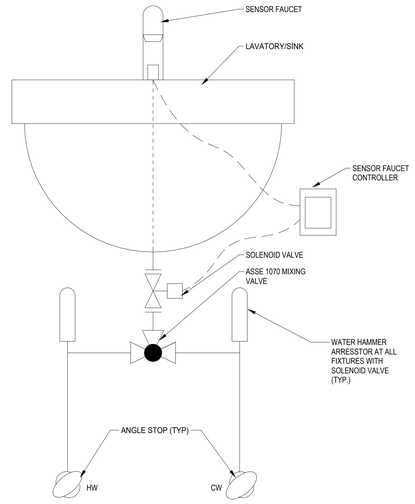
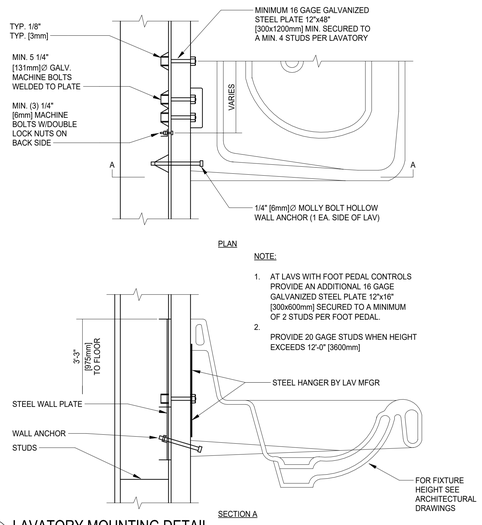


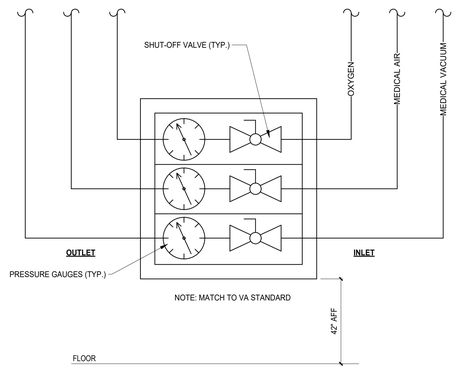
6 EMERGENCY FIXTURE - SHOWER
NOT TO SCALE



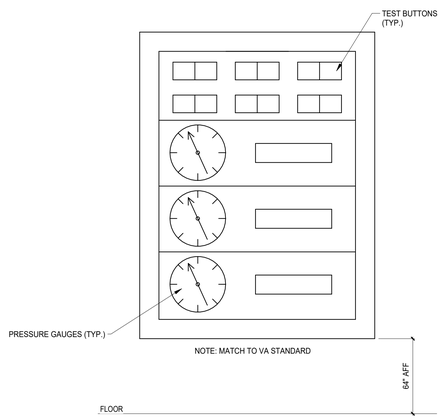
5 LAVATORY/SINK PIPING DETAIL
NOT TO SCALE



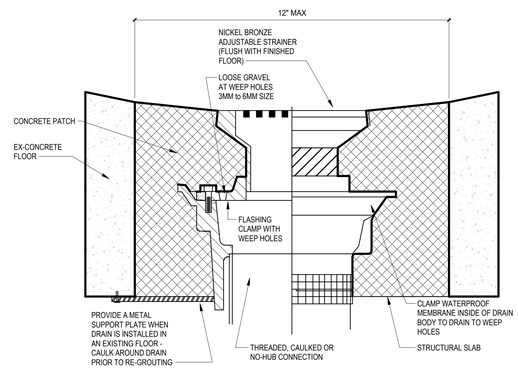
4 LAVATORY MOUNTING DETAIL
NOT TO SCALE



3 TYPICAL ZONE VALVE BOX DETAIL
NOT TO SCALE



2 TYPICAL ALARM PANEL DETAIL
NOT TO SCALE



NOTE:
SLOPE MEMBRANE LINER 2% TO DRAIN.

1 TYPE C FLOOR DRAIN DETAIL
NOT TO SCALE

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95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
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Drawing Title: **PLUMBING DETAILS**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
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Issue Date: **10-JAN-2025**
Checked: **JDL/AS**
Drawn: **REF**
Project Number: **553-21-100**
Building Number:
Drawing Number: **P-501**

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PLUMBING FIXTURE SCHEDULE

MARK	WASTE PIPE SIZE	VENT PIPE SIZE	COLD WATER PIPE SIZE	HOT WATER PIPE SIZE	DFU	CWFU	HWFU	TWFU	WRIST BLADE HANDLES	ELECTRIC SENSOR	REMARKS
FD-1					2	0	0				1,2
FD-C	3"	1 1/2"	1"	-	2	0	0	0	-	-	1,2
P-103	4"	1 1/2"	1 1/2"	-	4	10	0	10	-	YES	1
P-418	1 1/2"	1 1/2"	1/2"	1/2"	1	1.5	1.5	2	NO	YES	1
P-418A	1 1/2"	1 1/2"	1/2"	1/2"	1	1.5	1.5	2	NO	YES	1,3,4
P-419	1 1/2"	1 1/2"	1/2"	1/2"	1	1.5	1.5	2	NO	YES	1
P-421	1 1/2"	1 1/2"	1/2"	1/2"	3	1.5	1.5	2	NO	YES	1
P-502	3"	1 1/2"	3/4"	3/4"	2	2.25	2.25	3	YES	NO	1
P-505	3"	1 1/2"	3/4"	3/4"	2	3	3	4	NO	NO	1
P-528	1 1/2"	1 1/2"	1/2"	1/2"	3	1.5	1.5	2	NO	NO	1
P-550	1 1/2"	1 1/2"	3/4"	3/4"	3	1.5	1.5	2	YES	NO	1
P-609	1 1/2"	1 1/2"	1/2"	-	0.5	0.25	0	0.25	-	NO	1
P-707	-	-	1"	1"	0	0	0	-	-	-	1
P-812	-	-	1/2"	-	0	0.25	0	0.25	-	-	1

1. REFER TO PLUMBING FIXTURES SPECIFICATION SECTION 224000 FOR FIXTURE DESCRIPTIONS AND SPECIFICATIONS.
2. PROVIDE FLOOR DRAINS WITH TRAP PRIMER (TP-1). SHOWER FLOOR DRAIN DOES NOT REQUIRE TRAP PRIMER.
3. PLUMBING FIXTURE TO BE PROVIDED INTEGRAL WITH FOLD DOWN EYEWASH.
4. PLUMBING FIXTURE TO BE THE 30" OPTION AND CONSTRUCTED OF 14 GAUGE 304 STAINLESS STEEL.

LOCAL MEDICAL ALARM PANEL SCHEDULE

MARK	LOCATION	SERVICE MONITORED	AREA SERVED	REMARKS
MGAP-21	A2035	02. MA, MV	SECOND FLOOR ZONE #1	1,2,3

1. REFER TO PLUMBING SPECIFICATIONS FOR ALL REQUIREMENTS AND ALARM POINTS.
2. NEW ALARM TO TIE INTO EXISTING MASTER ALARM PANELS.
3. NEW ALARM PANEL TO MATCH VA STANDARDS FOR MANUFACTURER, MODEL, AND TYPE (MATCH EXISTING).

MEDICAL GAS ZONE VALVE BOX SCHEDULE

MARK	LOCATION	SERVICE VALVES	AREA SERVED	REMARKS
MG-21	A2035	3/4" O2, 3/4" MA, 1 1/4" MV	SECOND FLOOR ZONE #1	1,2

1. REFER TO PLUMBING SPECIFICATIONS FOR ALL REQUIREMENTS.
2. NEW ZONE VALVE BOX TO MATCH VA STANDARDS FOR MANUFACTURER, MODEL, AND TYPE (MATCH EXISTING).

MEDICAL GAS OUTLET SCHEDULE

MARK	DESCRIPTION	OXYGEN	MEDICAL AIR	MEDICAL VACUUM	REMARKS
PU-1	1 OXYGEN, 1 MEDICAL AIR, 1 MEDICAL VACUUM	1/2"	1/2"	1/2"	1,2,3

1. REFER TO PLUMBING SPECIFICATIONS FOR ALL REQUIREMENTS.
2. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR OUTLET LOCATIONS, SPACING, AND MOUNTING HEIGHTS.
3. ALL MEDICAL GAS OUTLETS SHALL MATCH CURRENT VA STANDARDS FOR MANUFACTURER, MODEL, AND TYPE (MATCH EXISTING).

PLUMBING PIPING SYSTEM APPLICATION SCHEDULE

SYSTEM	ABBREVIATION	AREA OR SYSTEM SERVED	PIPE LOCATION	PIPE SIZE (IN)	PIPING MATERIAL: COPPER DWV TUBE	COPPER MEDICAL GAS TUBE, TYPE K	COPPER TYPE L	SCH 40 STEEL	CAST IRON, HUBLESS	CPVC (CHEMICAL PIPING)	JOINING METHOD: MECHANICAL (COUPLING)	GROOVED (VICTAULIC)	FLANGED	SOLDERED (LOW TEMP)	BRAZED (HIGH TEMP)	HEAT FUSION	THREADED	WELDED	CONSTRUCTION: OPERATING TEMPERATURE (°F)	MINIMUM WORKING PRESSURE (PSI)	INSULATION: MINERIAL FIBER PREFORMED	FLEXIBLE ELASTOMERIC	THICKNESS (IN)	FEILD JACKET: PVC FITTINGS
DOMESTIC WATER	CW / HW / HWR	DOMESTIC WATER	ABOVE GROUND	NPS 1-1/2 AND SMALLER			X							X					40-140	100	X	X	1	X
DOMESTIC WATER	CW / HW / HWR	DOMESTIC WATER	ABOVE GROUND	NPS 2 TO NPS 4			X					X	X		X				40-140	100	X	X	1	X
FIRE PROTECTION	FP	FIRE PROTECTION	ABOVE GROUND	ALL SIZES				X				X					X	X	40-150	175				
NATURAL GAS	NG	BUILDING NATURAL GAS	ABOVE GROUND	ALL SIZES				X									X	X	-	100				
MEDICAL OXYGEN	O2	BUILDING MEDICAL OXYGEN SYSTEM	ABOVE GROUND	ALL SIZES		X									X				-	55				
MEDICAL AIR	MA	BUILDING MEDICAL AIR SYSTEM	ABOVE GROUND	ALL SIZES		X									X				-	55				
LAB AIR	LA	BUILDING LAB AIR SYSTEM	ABOVE GROUND	ALL SIZES		X									X				-	100				
COMPRESSED AIR	CA	BUILDING COMPRESSED AIR SYSTEM	ABOVE GROUND	ALL SIZES		X								X					-	100				
INDIRECT WASTE	IW	EQUIPMENT WASTE	ABOVE GROUND	ALL SIZES	X									X					40-140	100				
SANITARY & VENT	SAN / V	TOILET ROOMS / SINKS / MISC. FLOOR DRAINS	ABOVE GROUND	ALL SIZES					X		X								30-140	.5				
SANITARY & VENT	SAN / V	TOILET ROOMS / SINKS / MISC. FLOOR DRAINS	UNDER GROUND	ALL SIZES					X		X								30-140	.5				

PLUMBING VALVE SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	GATE VALVE
	GLOBE VALVE
	ANGLE VALVE
	SWING CHECK VALVE
	STRAINER
	FLEXIBLE CONNECTION
	BUTTERFLY VALVE
	BALL VALVE
	GAS COCK
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	THERMOSTATIC MIXING VALVE
S	SOLENOID VALVE
	PRESSURE REGULATING VALVE
	BALANCE VALVE
	PRESSURE RELIEF VALVE
	TEMPERATURE PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE
	PLUG VALVE
	EXPANSION JOINT
	PIPE SLEEVE
	WATER HAMMER ARRESTOR
AAV	AIR ADMITTANCE VALVE
	BACKFLOW PREVENTER LARGE
	BACKFLOW PREVENTER SMALL
M	WATER METER
M	NATURAL GAS METER

PLUMBING ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
AAV	AIR ADMITTANCE VALVE
CI	CAST IRON
CO	CLEANOUT
CW	COLD WATER
D	DRAIN
DIA	DIAMETER
EFF	EFFICIENCY
EL	ELEVATION
EWT	ENTERING WATER TEMPERATURE
FD	FLOOR DRAIN
FCO	FLOOR CLEANOUT
FPM	FEET PER MINUTE
FT	FEET
GA	GAUGE
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HB	HOSE BIBB
HP	HORSEPOWER
HW	HOT WATER
HWR	HOT WATER RETURN
ID	INSIDE DIAMETER
IN	INCHES
IN WC	INCHES WATER COLUMN
IPC	INTERNATIONAL PLUMBING CODE
KW	KILOWATTS
LAV	LAVATORY
LF	LINEAR FEET
MA	MEDICAL AIR
MFS	MAXIMUM FUSE SIZE
MCA	MINIMUM CIRCUIT AMPACITY
MHP	MOTOR HORSEPOWER
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPC	MICHIGAN PLUMBING CODE
MR	MANUFACTURER'S RECOMMENDATIONS
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O2	OXYGEN
OD	OUTSIDE DIAMETER
OZ	OUNCE
P	PUMP
PD	PRESSURE DROP
PPM	PARTS PER MILLION
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
PSIG	POUNDS PER SQUARE INCH GAUGE
RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	ROUNDS PER MINUTE
RV	RELIEF VALVE
S	SINK
SAN	SANITARY
SOV	SHUTOFF VALVE
SCW	SOFT COLD WATER
MBH	THOUSAND BTU/HR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	SANITARY VENT
VAC	VACUUM
VSD	VARIABLE SPEED DRIVE
VFD	VARIABLE FREQUENCY DRIVE
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTER
W	WATTS
WPD	WATER PRESSURE DROP

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9. ALL ABOVE CEILING SYSTEMS AND COMPONENTS (INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, ETC.) SHALL BE COORDINATED SUCH THAT THE SYSTEMS ARE PROPERLY INTEGRATED IN THE SPACE PROVIDED ABOVE CEILING AT THE CEILING HEIGHTS NOTED. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO COORDINATE PATHWAYS WITHIN THE SPACE PROVIDED. CEILING HEIGHTS WILL NOT BE MODIFIED.
10. COORDINATE LOCATIONS OF ALL FIXTURES WITH ARCHITECTURAL AND ELECTRICAL PRIOR TO ROUGH-IN. ALL CONFLICTS WITH FINISHES, ADJACENT CONSTRUCTION, AND CONSTRUCTION DOCUMENTS ARE TO GENERATE AN RFI FROM THE MECHANICAL CONTRACTOR TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING AND COMPLETION OF WORK.
11. HINGED STEEL ACCESS PANELS SHALL BE FURNISHED AND INSTALLED FOR ALL ABOVE CEILING EQUIPMENT REQUIRING ACCESS OR SERVICE (VALVES, ACCESSORIES, ETC.) IN GYPSUM CEILINGS. PANELS SHALL BE KEYED FOR ACCESS BY MAINTENANCE STAFF ONLY, AND FINISHED WITH WHITE BAKED-ON ENAMEL. MECHANICAL CONTRACTOR SHALL CONSOLIDATE ABOVE CEILING ACCESS REQUIREMENTS TO LIMIT THE NUMBER OF PANELS.
12. ALL SANITARY AND STORM PIPING SHALL BE INSTALLED TO MAINTAIN 1/8" SLOPE FOR 3" OR LARGER AND 1/4" PER FOOT FOR 2" OR SMALLER. TYPICAL U.N.O.
13. ALL SANITARY AND STORM RISERS SHALL BE FITTED WITH ACCESSIBLE CLEANOUT AT BASE. PROVIDE CLEANOUT COVERWALL PLATE IN FINISHED AREAS. PROVIDE BOLLARDS IN EXPOSED AREAS. COORDINATE EXACT LOCATION WITH STEEL AND CONCRETE CONTRACTORS TO ENSURE BOLLARDS ARE PROVIDED.
14. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING ALL NEW PLUMBING PENETRATIONS THROUGH RATED ASSEMBLIES.
15. PLUMBING CONTRACTOR SHALL PROVIDE WATER PROOF SHEET METAL CAP, INSULATED (EQUIVALENT TO ROOF) FOR ALL DEMOLISHED ROOF PENETRATIONS.
16. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ISOLATION VALVES AT ALL WATER CONSUMING FIXTURES, AND LOCATE VALVES TO ALLOW FOR ACCESS WITHIN 3` AFTER CONSTRUCTION IS COMPLETE.
17. ALL PLUMBING EQUIPMENT SHALL BE PROVIDED WITH MOTOR STARTERS COMPATIBLE WITH CONTROLS SYSTEM. COORDINATE WITH CONTROLS AND ELECTRICAL CONTRACTORS.
18. COMPLETE LAYOUT DRAWINGS ARE REQUIRED BY SPECIFICATION SECTION 220511, 1.4 SUBMITTALS. CONSTRUCTION SHALL NOT START ON ANY SYSTEM UNTIL LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE VA.

PLUMBING PIPING SYMBOLS LEGEND

SYMBOL	DESCRIPTION
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
MA	MEDICAL AIR
VAC	VACUUM
V	SANITARY VENT (ABOVE GRADE)
V	SANITARY VENT (BELOW GRADE)
SAN	SANITARY (ABOVE GRADE)
SAN	SANITARY (BELOW GRADE)
O2	OXYGEN
	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	TOP CONNECTION, 45 OR 90
	SIDE CONNECTION
	BOTTOM CONNECTION, 45 OR 90
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES
	FLOAT AND THERMOSTATIC TRAP SET
FE	FLOW ELEMENT
	THERMOMETER
	PRESSURE GAUGE
	POINT OF CONNECTION BETWEEN PROPOSED AND EXISTING SYSTEMS
	DEMOLITION ENDPOINT
CO	END OF LINE CLEANOUT
FCO	FLOOR CLEANOUT
WCO	WALL CLEANOUT
	PUMP
	HOSE BIBB
	WALL HYDRANT (IN RECESSED BOX)
	OVERFLOW DISCHARGE

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Drawing Title: PLUMBING SCHEDULES
Phase: 100% BID DOCUMENTS
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Project Number: 553-21-100
Building Number:
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MECHANICAL ABBREVIATIONS & SYMBOLS LEGEND

ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
ACH	AIR CHANGES PER HOUR
ACM	ASBESTOS CONTAINING MATERIALS
ACU	AIR CONDITIONING UNIT
ADJ	ADJUSTABLE
AEE	ASSOCIATION OF ENERGY ENGINEERS
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL EFFICIENCY RATIO
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AWT	AVERAGE WATER TEMPERATURE
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BCA	BUILDING COMMISSIONING ASSOCIATION
BCU	BLOWER COIL UNIT
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BI	BINARY INPUT
BO	BINARY OUTPUT
BOM	BILL OF MATERIALS
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CDD	COOLING DEGREE DAYS
CEM	CERTIFIED ENERGY MANAGER
CFC	CHLORO-FLUORO-CARBON
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHW	CHILLED WATER
CHWP	CHILLED WATER SYSTEM PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLF	COOLING LOAD FACTOR
CLTD	COOLING LOAD TEMPERATURE DIFFERENCE
COP	COEFFICIENT OF PERFORMANCE
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DA	DISCHARGE AIR
DB	DRY BULB
DC	DIRECT CURRENT
DCP	DISPLAY AND CONTROL PANEL
DCV	DEMAND CONTROLLED VENTILATION
DDC	DIRECT DIGITAL CONTROL
DL	DISCHARGE LINE - REFRIGERANT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DIFFERENTIAL PRESSURE
DRG	DIFFUSERS, REGISTERS, & GRILLES
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECM	ELECTRONICALLY COMMUTATED MOTOR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EH	EXHAUST HOOD

ABBREVIATION	DESCRIPTION
EL	ELEVATION
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	FAHRENHEIT
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERAGE
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FT	FEET
FT-HD	FOOT OF HEAD PRESSURE
FTR	FINNED TUBE RADIATORS
G	GASOLINE
GA	GAUGE
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GUI	GRAPHICAL UNIT INTERFACE
H	HOOD
HCC	HYDRONIC CEILING CASSETTE
HCFC	HYDRO-CHLORO-FLUORO-CARBON
HD	HEAD PRESSURE
HDD	HEATING DEGREE DAYS
HEPA	HIGH EFFICIENCY PARTICULATE ARRESTANCE
HFC	HYDRO-FLUORO-CARBON
HHW	HEATING HOT WATER
HHWP	HEATING HOT WATER PUMP
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HL	HIGH LIMIT
HPU	HEAT PUMP UNIT
HP	HORSEPOWER
HPR	HEAT PUMP RETURN
HPS	HEAT PUMP SUPPLY
HRU	HEAT RECOVERY UNIT
HRV	HEAT RECOVERY VENTILATOR
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
HX	HEAT EXCHANGER
HZ	HERTZ (FREQUENCY)
IA	INTAKE AIR
IAQ	INDOOR AIR QUALITY
IF	INLINE FAN
IH	INTAKE HOOD
IMC	INTERNATIONAL MECHANICAL CODE
IN	INCHES
IN-WC	INCHES OF WATER COLUMN PRESSURE
IR	INFRA-RED
IU	INDOOR UNIT
kW	KILOWATTS
kWh	KILOWATT HOURS
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
LH	LATENT HEAT
LL	LIQUID LINE - REFRIGERANT
LMTD	LEAST MEAN TEMPERATURE DIFFERENCE
LP	LOW PRESSURE
LPG	LIQUID PROPANE (GAS)
LPC	LOW PRESSURE STEAM CONDENSATE RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LRA	LOCKED ROTOR AMPERAGE
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAU	MAKE-UP AIR UNIT
MBH	THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY

ABBREVIATION	DESCRIPTION
MFR	MANUFACTURER
MHP	MOTOR HORSEPOWER
MMC	MICHIGAN MECHANICAL CODE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPC	MEDIUM PRESSURE STEAM CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
MR	MANUFACTURER'S RECOMMENDATIONS
MZ	MULTI-ZONE
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OAP	OUTDOOR AIR PERCENTAGE
OAT	OUTDOOR AIR TEMPERATURE
OZ	OUNCE
P	PUMP
PD	PRESSURE DROP
PH	PRE-HEAT
PID	PROPORTIONAL-INTEGRAL-DERIVATIVE
PRV	PRESSURE RELIEF VALVE
PSI	POUNDS PER SQUARE INCH
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHT	RE-HEAT
RLA	RUNNING LOAD AMPERAGE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SC	SHADING COEFFICIENT
SD	SUPPLY DIFFUSER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SH	SENSIBLE HEAT
SHR	SENSIBLE HEAT RATIO
SL	SUCTION LINE - REFRIGERANT
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SOO	SEQUENCE OF OPERATION
SP	STATIC PRESSURE
T	TEMPERATURE
TSTAT	THERMOSTAT
TAB	TEST AND BALANCE
TD	TEMPERATURE DIFFERENTIAL
TOD	TIME OF DAY
TONS	TONS OF REFRIGERATION (1 TON = 12,000 BTU)
TSP	TOTAL STATIC PRESSURE
TU	TERMINAL UNIT
TXV	THERMOSTATIC EXPANSION VALVE
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME BOX
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VSD	VARIABLE SPEED DRIVE
VUV	VERTICAL UNIT VENTILATOR
WB	WET BULB
WC	WATER COLUMN

SYMBOL	DESCRIPTION
PIPING	
HPS	HIGH PRESSURE STEAM
MPS	MEDIUM PRESSURE STEAM
LPS	LOW PRESSURE STEAM
HPC	HIGH PRESSURE STEAM CONDENSATE
MPC	MEDIUM PRESSURE STEAM CONDENSATE
LPC	LOW PRESSURE STEAM CONDENSATE
BBD	BOILER BLOWDOWN
PC	PUMPED CONDENSATE
VPD	VACUUM PUMP DISCHARGE
MU	MAKE-UP WATER
ATV	ATMOSPHERIC VENT
FO	FUEL OIL
HHWS	HEATING HOT WATER SUPPLY
HHWR	HEATING HOT WATER RETURN
CA	COMPRESSED AIR
VAC	VACUUM (AIR)
EX	EXISTING
	DEMOLITION PIPING
LL	LIQUID LINE (REFRIGERANT)
SL	SUCTION LINE (REFRIGERANT)
DL	DISCHARGE LINE (REFRIGERANT)
BS	BRINE SUPPLY
BR	BRINE RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
FILL	FILL LINE
H	HUMIDIFICATION LINE
D	DRAIN
HPWS	HEAT PUMP WATER SUPPLY
HPWR	HEAT PUMP WATER RETURN
COILS	
	COOLING COIL
	HEATING COIL
	ELECTRIC COIL
	HUMIDIFIER
VALVES	
	AIR LINE
	BALL VALVE
	BUTTERFLY VALVE
	DIAPHRAGM VALVE
	GATE VALVE
	GATE VALVE (ANGLE)
	PLUG VALVE
	THREE WAY VALVE
	CHECK VALVE
	PRESSURE REGULATING VALVE
	RELIEF VALVE
VALVE ACTUATORS	
	LEVER
	NON-RISING STEM
	OUTSIDE STEM & YOKE
	GEAR
	PNUEMATIC MOTOR ACTUATOR
M	ELECTRIC MOTOR ACTUATOR
	ELECTRIC SOLENOID ACTUATOR
PIPE FITTINGS	
	TRANSITION
	CAP
	ELBOW
	ELBOW UP
	ELBOW DOWN
	TEE
	TEE UP
	TEE DOWN
	UNION

SYMBOL	DESCRIPTION
PIPE SPECIALTIES	
AAV	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	PIPE GUIDE
	PIPE ANCHOR
	MAIN PIPE ANCHOR
	BALL JOINT
	EXPANSION JOINT
	EXPANSION LOOP
	ORIFICE FLOWMETER
	VENTURI FLOWMETER
FS	FLOW SWITCH
	HANGER ROD
	PRESSURE GAGE
PS	PRESSURE SWITCH
	PUMP
	STRAINER
T	THERMOMETER
EQUIPMENT	
C	CENTRIFUGAL FAN
	PROPELLER FAN
	INTAKE ROOF VENTILATOR
	EXHAUST ROOF VENTILATOR
	LOUVERED ROOF VENTILATOR
	VANEAXIAL FAN
	VARIABLE AIR VOLUME BOX
DUCTWORK	
SA	SUPPLY AIR DUCTWORK
RA	RETURN AIR DUCTWORK
EA	EXHAUST AIR DUCTWORK
OA	OUTSIDE AIR DUCTWORK
12"x12" SA	RECTANGULAR DUCTWORK
12"Ø SA	ROUND DUCTWORK
	MITERED RECTANGULAR ELBOW
	MITERED RECTANGULAR ELBOW WITH TURNING VANES
	RADIUS RECTANGULAR OR ROUND ELBOW
	TRANSITION
	RECTANGULAR DUCTWORK UP
	RECTANGULAR DUCTWORK DOWN
	ROUND DUCTWORK UP
	ROUND DUCTWORK DOWN
	LINED DUCTWORK
	INSULATED DUCTWORK
	FLEXIBLE DUCTWORK
DAMPERS	
	BALANCING DAMPER
	FIRE DAMPER
	SMOKE DAMPER
DRG	
	SUPPLY AIR CEILING DIFFUSER
	RETURN AIR CEILING GRILLE
	EXHAUST AIR CEILING GRILLE
	SIDEWALL SUPPLY GRILLE
	SIDEWALL RETURN / EXHAUST GRILLE
	LINEAR DIFFUSER
CONTROLS	
T	THERMOSTAT
P	PRESSURE SENSOR
O	OXYGEN SENSOR
CO	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
S	TEMPERATURE SENSOR

Revisions:	Date:
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Drawing Title: **MECHANICAL LEGENDS**

Approved:

Phase: **100% BID DOCUMENTS**

FULLY SPRINKLERED

Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**

Location: **DETROIT, MI**

Issue Date: **10-JAN-2025**

Checked: **JDL/AS**

Drawn: **REF**

Project Number: **553-21-100**

Building Number:

Drawing Number: **M-001**

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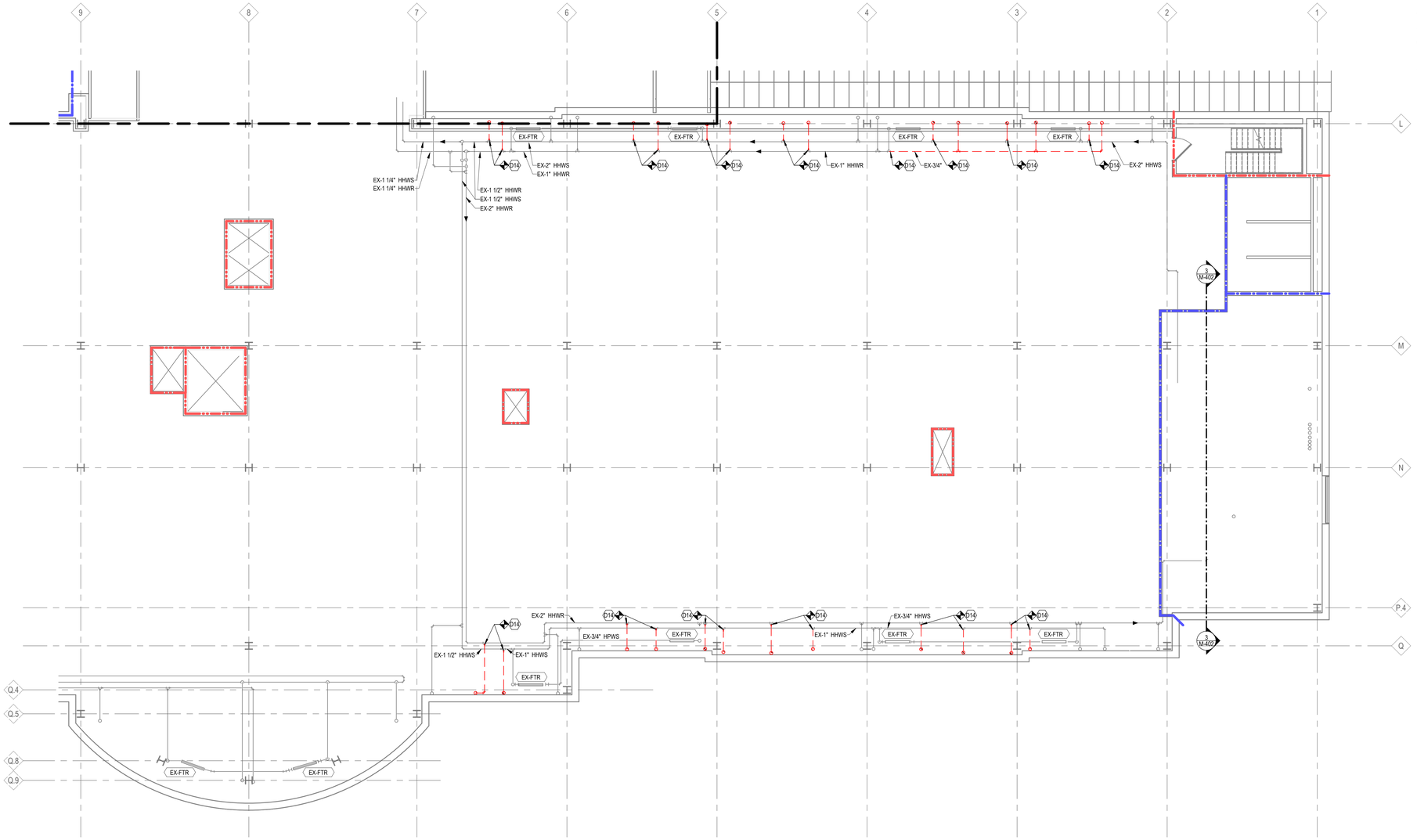


DEMOLITION PLAN - FIRST LEVEL INTERSTITIAL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

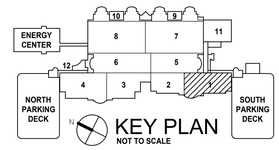
NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

MECHANICAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL REVIEW THE ENTIRETY OF THE DRAWINGS AND SPECIFICATIONS BEFORE ANY WORK IS STARTED.
2. ALL WORK TO BE DEMOLISHED IS NOTED WITH DASHED LINES, OR A DEMOLITION KEYNOTE, OR BOTH. REVIEW THE DEMOLITION KEYNOTES PRIOR TO BEGINNING THE WORK.
3. EXCEPT FOR WHEN NOTED ON DRAWINGS, MECHANICAL EQUIPMENT AND SYSTEMS NOTED TO BE REMOVED SHALL BE ENTIRELY DEMOLISHED, AND SHALL BECOME PROPERTY OF THE CONTRACTOR TO REMOVE FROM THE SITE, WHILE FOLLOWING ALL CODES AND REQUIREMENTS.
4. ITEMS NOTED FOR SALVAGE SHALL BE REMOVED WITH DUE CARE TAKEN, AND RETURNED TO THE OWNER IN A LIKE CONDITION TO IT'S PREVIOUS STATE.
5. DEMOLITION SHALL BE COORDINATED WITH OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR ANY EXISTING MATERIALS TO REMAIN THAT ARE DAMAGED IN THE DEMOLITION PROCESS.
6. THESE DRAWINGS ARE COMPILED BY THE ARCHITECT AND ENGINEER FROM THE OWNER'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS. AREAS OF WORK THAT DIFFER GREATLY FROM THE DEMOLITION PLAN SHALL GENERATE AN RFI TO THE ENGINEER.
7. MECHANICAL SYSTEMS AND EQUIPMENT LOCATED IN THE AREA OF DEMOLITION BUT USED TO SERVE AREAS THAT ARE NOT TO BE DEMOLISHED SHALL BE LEFT TO REMAIN, OR RELOCATED IN SUCH A WAY AS TO MAINTAIN THE ORIGINAL DESIGN INTENT OF THE SYSTEM.

MECHANICAL DEMOLITION KEYNOTES

KEY VALUE	KEYNOTE TEXT
D14	REMOVE PIPING UP TO FINNED TUBE RADIATION ON THE SECOND FLOOR. CAP PIPING AT THE MAIN.



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Drawing Title: DEMO PLAN - FIRST LEVEL INTERSTITAL - ZONE 1
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
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Drawing Number: MD101.I

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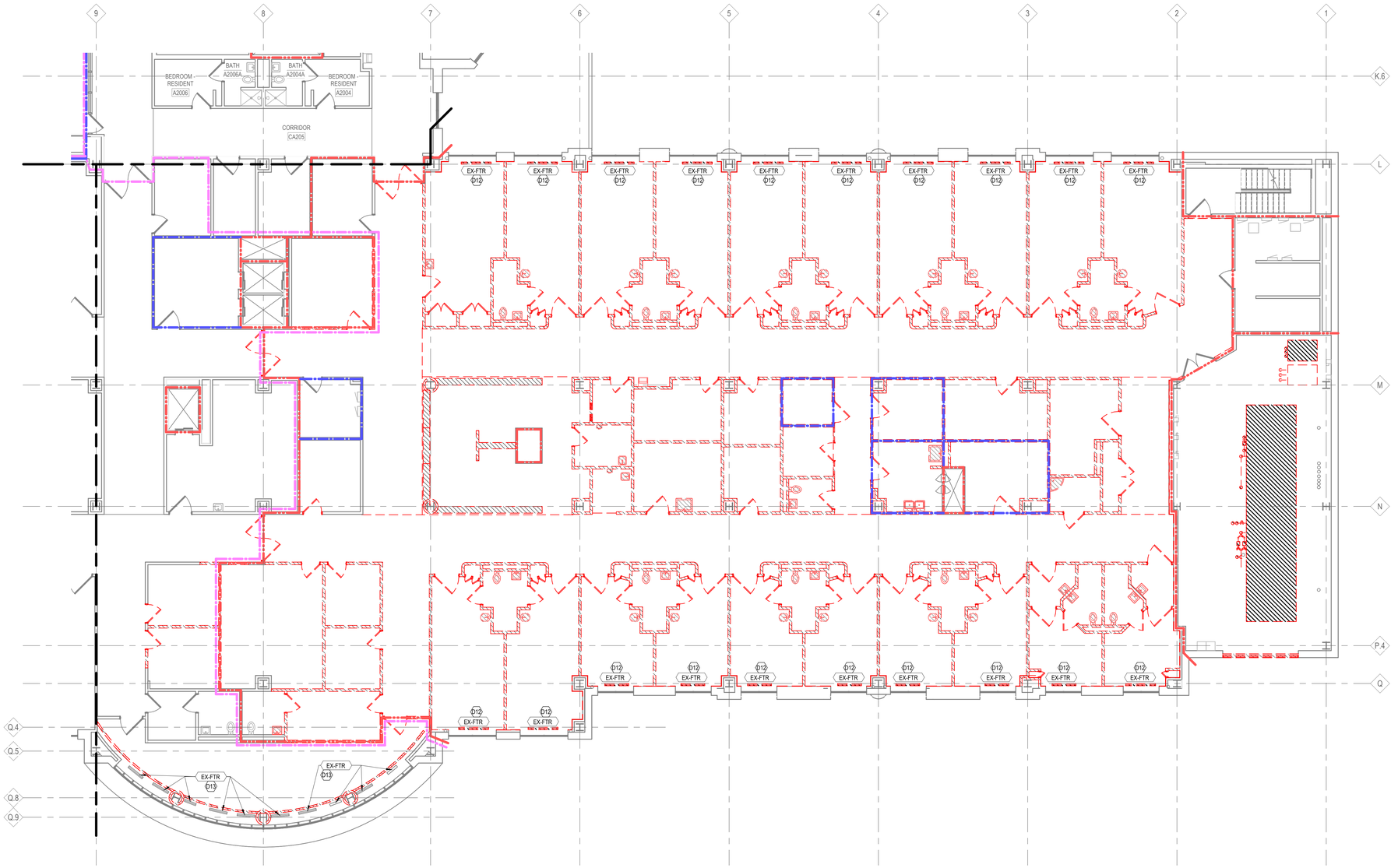

MECHANICAL DEMOLITION PLAN- SECOND LEVEL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

MECHANICAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL REVIEW THE ENTIRETY OF THE DRAWINGS AND SPECIFICATIONS BEFORE ANY WORK IS STARTED.
2. ALL WORK TO BE DEMOLISHED IS NOTED WITH DASHED LINES, OR A DEMOLITION KEYNOTE, OR BOTH. REVIEW THE DEMOLITION KEYNOTES PRIOR TO BEGINNING THE WORK.
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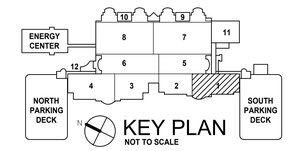
MECHANICAL DEMOLITION KEYNOTES

KEY VALUE	KEYNOTE TEXT
D12	REMOVE FINNED TUBE RADIATION, COVER AND ALL ASSOCIATED PIPING ABOVE THE FLOOR.
D13	FINNED TUBE RADIATION TO REMAIN.



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John D. Dingell VA Medical Center
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Detroit , MI 48201

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Monument Engineering Group Associates, Inc. MEGA

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

Drawing Title: DEMO PLAN - SECOND LEVEL - ZONE 1
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: JDL/AS
Drawn: REF
Project Number: 553-21-100
Building Number:
Drawing Number: MD102

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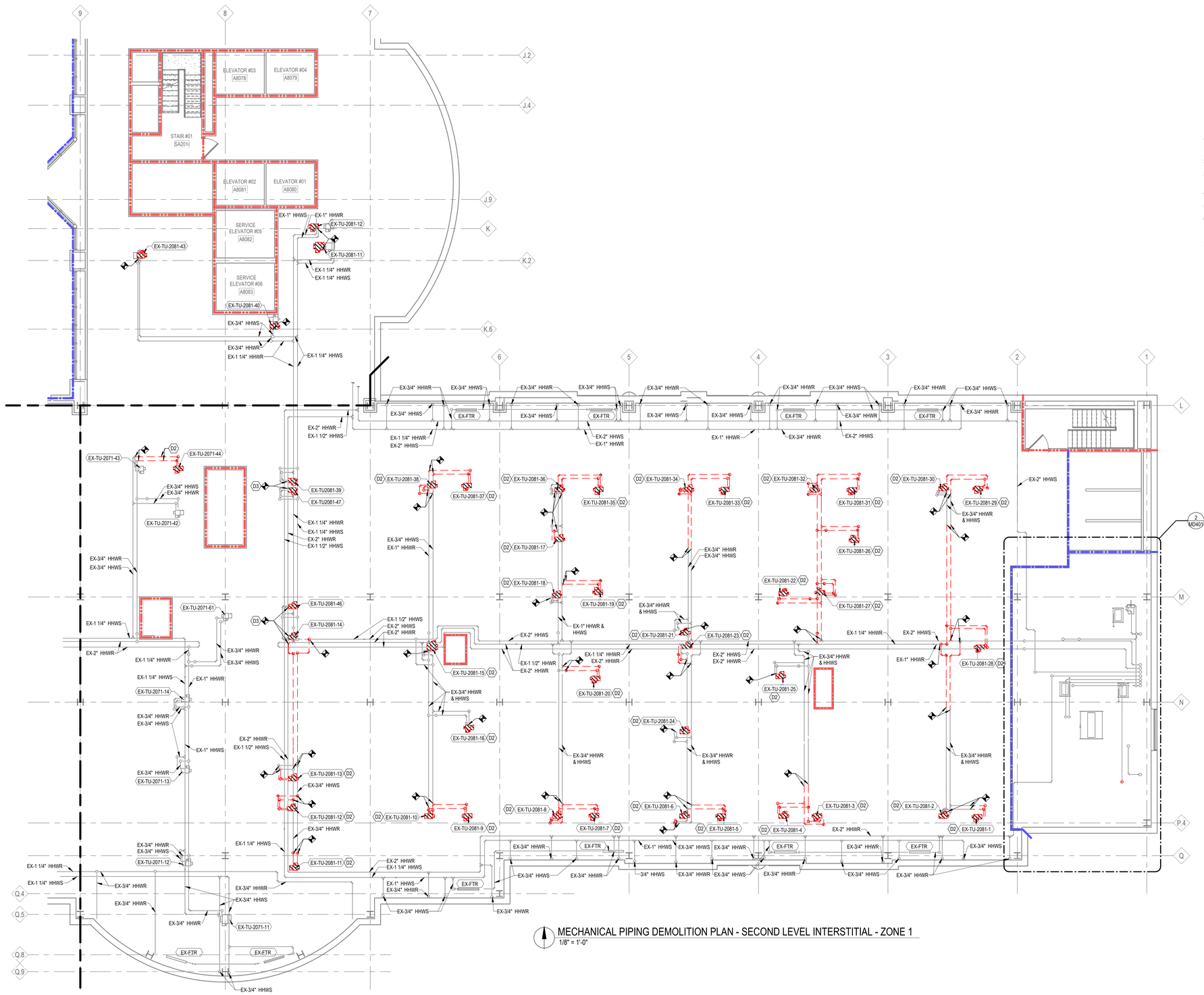


MECHANICAL PIPING DEMOLITION PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

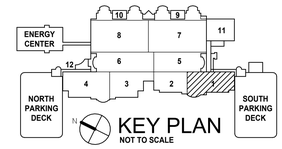
NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

MECHANICAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL REVIEW THE ENTIRETY OF THE DRAWINGS AND SPECIFICATIONS BEFORE ANY WORK IS STARTED.
2. ALL WORK TO BE DEMOLISHED IS NOTED WITH DASHED LINES, OR A DEMOLITION KEYNOTE, OR BOTH. REVIEW THE DEMOLITION KEYNOTES PRIOR TO BEGINNING THE WORK.
3. EXCEPT FOR WHEN NOTED ON DRAWINGS, MECHANICAL EQUIPMENT AND SYSTEMS NOTED TO BE REMOVED SHALL BE ENTIRELY DEMOLISHED, AND SHALL BECOME PROPERTY OF THE CONTRACTOR TO REMOVE FROM THE SITE, WHILE FOLLOWING ALL CODES AND REQUIREMENTS.
4. ITEMS NOTED FOR SALVAGE SHALL BE REMOVED WITH DUE CARE TAKEN, AND RETURNED TO THE OWNER IN A LIKE CONDITION TO IT'S PREVIOUS STATE.
5. DEMOLITION SHALL BE COORDINATED WITH OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR ANY EXISTING MATERIALS TO REMAIN THAT ARE DAMAGED IN THE DEMOLITION PROCESS.
6. THESE DRAWINGS ARE COMPILED BY THE ARCHITECT AND ENGINEER FROM THE OWNER'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS. AREAS OF WORK THAT DIFFER GREATLY FROM THE DEMOLITION PLAN SHALL GENERATE AN RFI TO THE ENGINEER.
7. MECHANICAL SYSTEMS AND EQUIPMENT LOCATED IN THE AREA OF DEMOLITION BUT USED TO SERVE AREAS THAT ARE NOT TO BE DEMOLISHED SHALL BE LEFT TO REMAIN, OR RELOCATED IN SUCH A WAY AS TO MAINTAIN THE ORIGINAL DESIGN INTENT OF THE SYSTEM.

MECHANICAL DEMOLITION KEYNOTES

KEY VALUE	KEYNOTE TEXT
D2	REMOVE PIPING, VALVES, AND FITTINGS TO TERMINAL UNIT REHEAT COIL. CAP PIPING AT THE DEMOLITION TERMINATION POINT.
D3	REMOVE PIPING, VALVES, AND FITTINGS TO TERMINAL UNIT REHEAT COIL. PIPING SHALL BE CONNECTED TO NEW REHEAT COIL.



Revisions:	Date:
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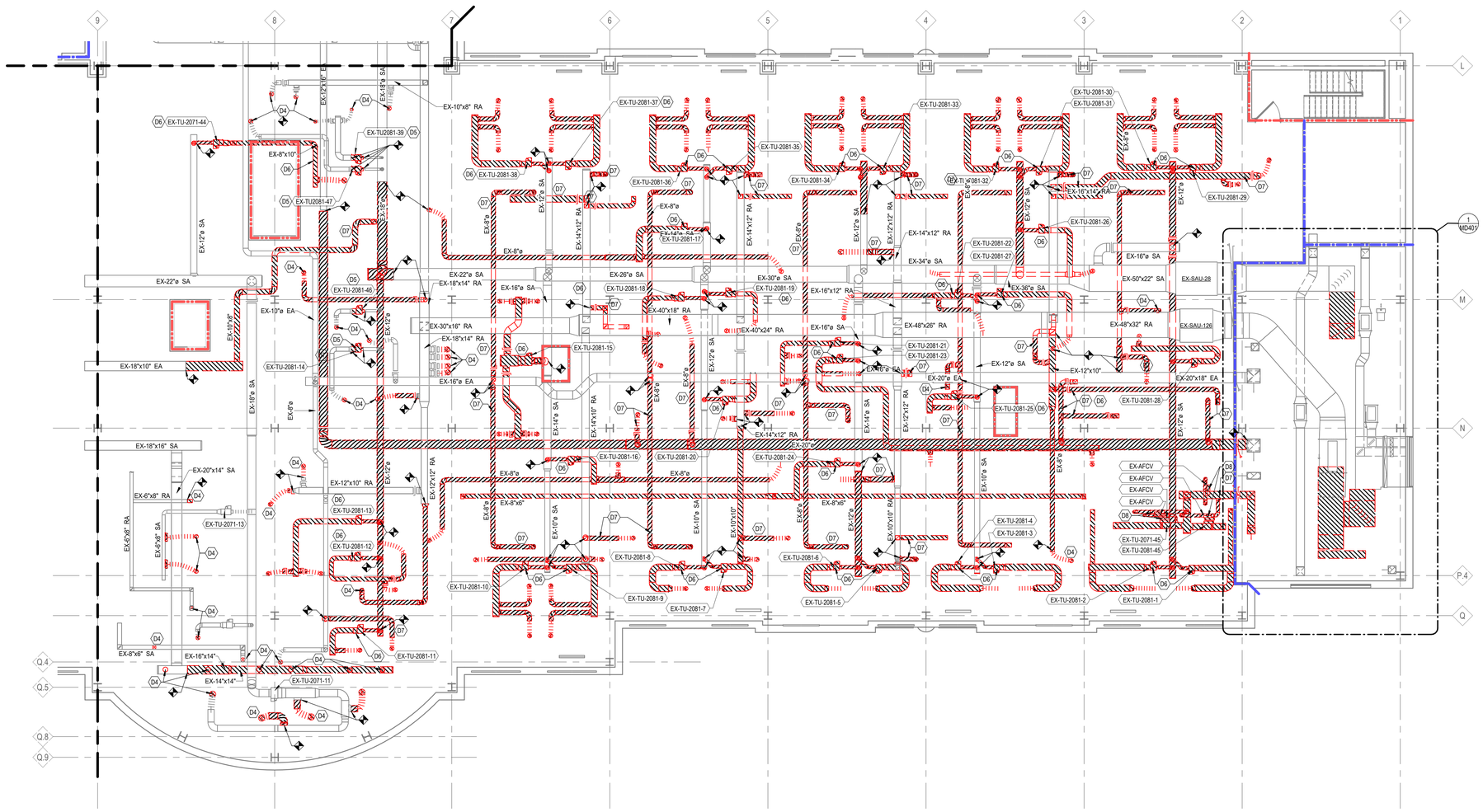

MECHANICAL HVAC DEMOLITION PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

MECHANICAL DEMOLITION NOTES:

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6. THESE DRAWINGS ARE COMPILED BY THE ARCHITECT AND ENGINEER FROM THE OWNER'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS. AREAS OF WORK THAT DIFFER GREATLY FROM THE DEMOLITION PLAN SHALL GENERATE AN RFI TO THE ENGINEER.
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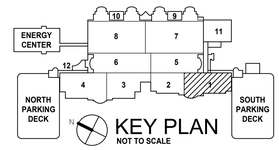
MECHANICAL DEMOLITION KEYNOTES

KEY VALUE	KEYNOTE TEXT
D4	REMOVE THE DIFFUSER/GRILLE BELOW AND THE ABOVE CEILING DUCTWORK. DUCTWORK IN THE INTERSTITIAL SHALL REMAIN.
D5	REMOVE THE TERMINAL UNIT AND ASSOCIATED CONTROLS.
D6	REMOVE THE TERMINAL UNIT AND ALL ASSOCIATED DUCTWORK, DIFFUSERS AND CONTROLS. CAP AND SEAL THE BRANCH DUCT CONNECTION AT THE MAIN DUCT. WHERE PRACTICAL, REUSE THE EXISTING PENETRATIONS THROUGHT THE INTERSTITIAL FLOOR. INFILL ALL UNUSED FLOOR OPENINGS TO MATCH EXISTING.
D7	REMOVE DUCTWORK AND ASSOCIATED GRILLES. CAP AND SEAL THE DUCT AT THE INDICATED DEMOLITION TERMINATION POINT. WHERE PRACTICAL, REUSE THE EXISTING PENETRATIONS THROUGH THE INTERSTITIAL FLOOR. INFILL ALL UNUSED FLOOR OPENINGS TO MATCH EXISTING.
D8	REMOVE AIR FLOW CONTROL VALVES AND ALL ASSOCIATED DUCTWORK AND CONTROLS.



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- EXISTING 2-HR. FIRE BARRIER

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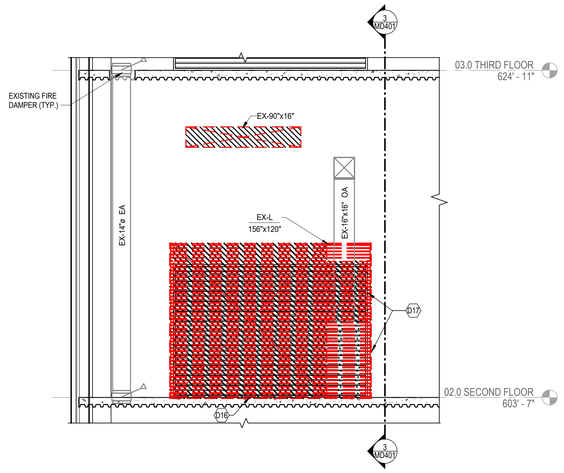
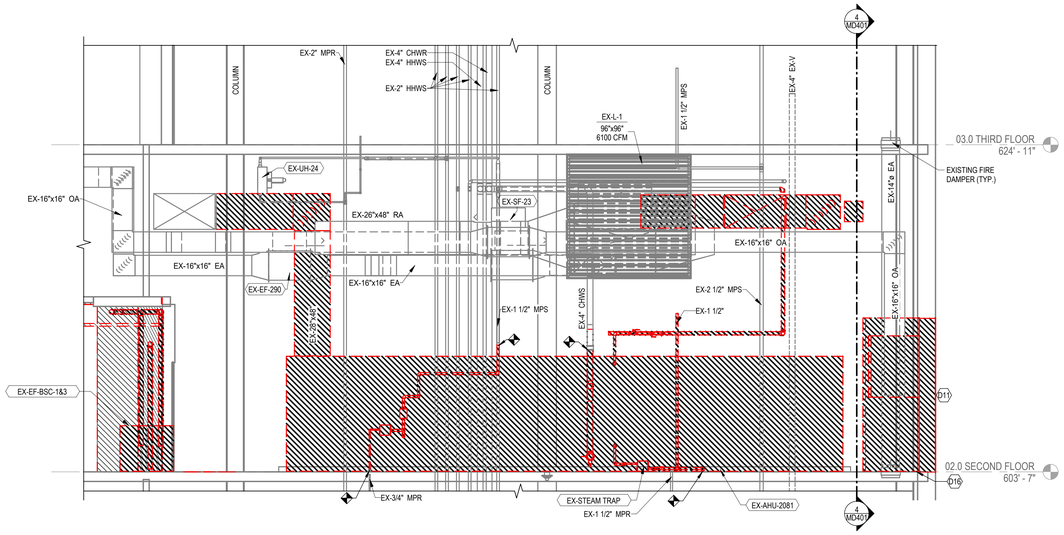
MECHANICAL DEMOLITION KEYNOTES

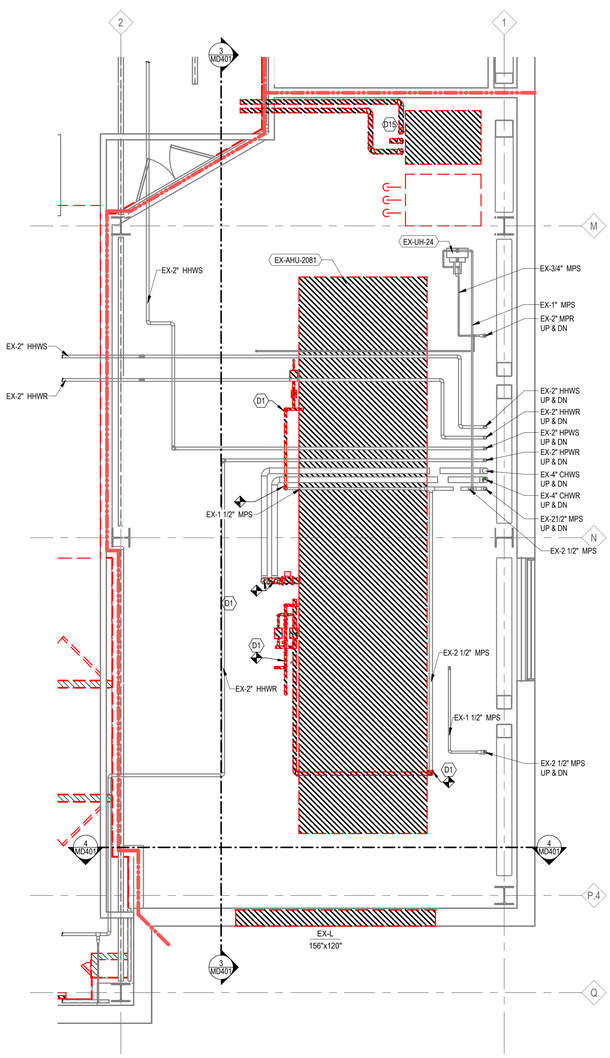
KEY VALUE	KEYNOTE TEXT
D1	REMOVE PIPING, VALVES, AND FITTINGS THAT SERVE AHU-2081.
D7	REMOVE DUCTWORK AND ASSOCIATED GRILLES. CAP AND SEAL THE DUCT AT THE INDICATED DEMOLITION TERMINATION POINT. WHERE PRACTICAL, REUSE THE EXISTING PENETRATIONS THROUGH THE INTERSTITIAL FLOOR. INFILL ALL UNUSED FLOOR OPENINGS TO MATCH EXISTING.
D9	REMOVE DUCTWORK AS INDICATED.
D10	REMOVE AIR HANDLING UNIT AS INDICATED. DISCONNECT ALL DUCTWORK AND CONTROLS.
D11	REMOVE THE OUTSIDE AIR LOUVER TO PROVIDE ACCESS TO THE MECHANICAL ROOM. PROTECT AND STORE THE LOUVER FOR REINSTALLATION AT THE COMPLETION OF THE AHU-2081 INSTALLATION.
D15	EXISTING SWISS LOG TUBE SYSTEM WITH ITS THREE 3" TUBES SHALL BE RELOCATED TO THIRD FLOOR MECHANICAL ROOM ABOVE. CONTRACTOR SHALL FIELD VERIFY FOR PROPER ROUTING AND COORDINATE WITH ALL DISCIPLINES INCLUDING THE SWISS LOG. (SEE M-402. THREE EXISTING 3" TUBES SHALL PENETRATE THE MECHANICAL ROOM ABOVE THROUGH THE SECOND FLOOR CEILING).
D16	REMOVE THE OUTSIDE AIR PLENUM AS INDICATED.
D17	REMOVE DAMPERS AND FILTERS WITHIN THE 32"x48" PLENUM.



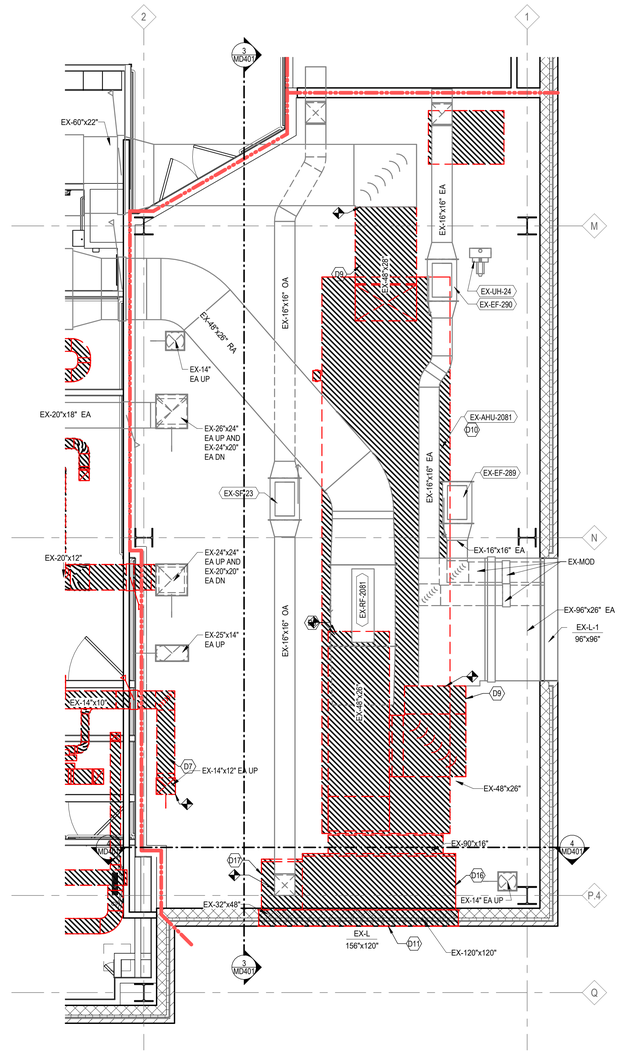
4 MD401 DEMOLITION SECTION - AHU-2081 AIR INTAKE
1/4" = 1'-0"



3 MD401 DEMOLITION SECTION - MECHANICAL ROOM A2032
1/4" = 1'-0"



2 MD102.21 ENLARGED MECHANICAL ROOM A2032 PIPING DEMOLITION PLAN
1/4" = 1'-0"



1 MD102.21 ENLARGED MECHANICAL ROOM A2032 HVAC DEMOLITION PLAN
1/4" = 1'-0"

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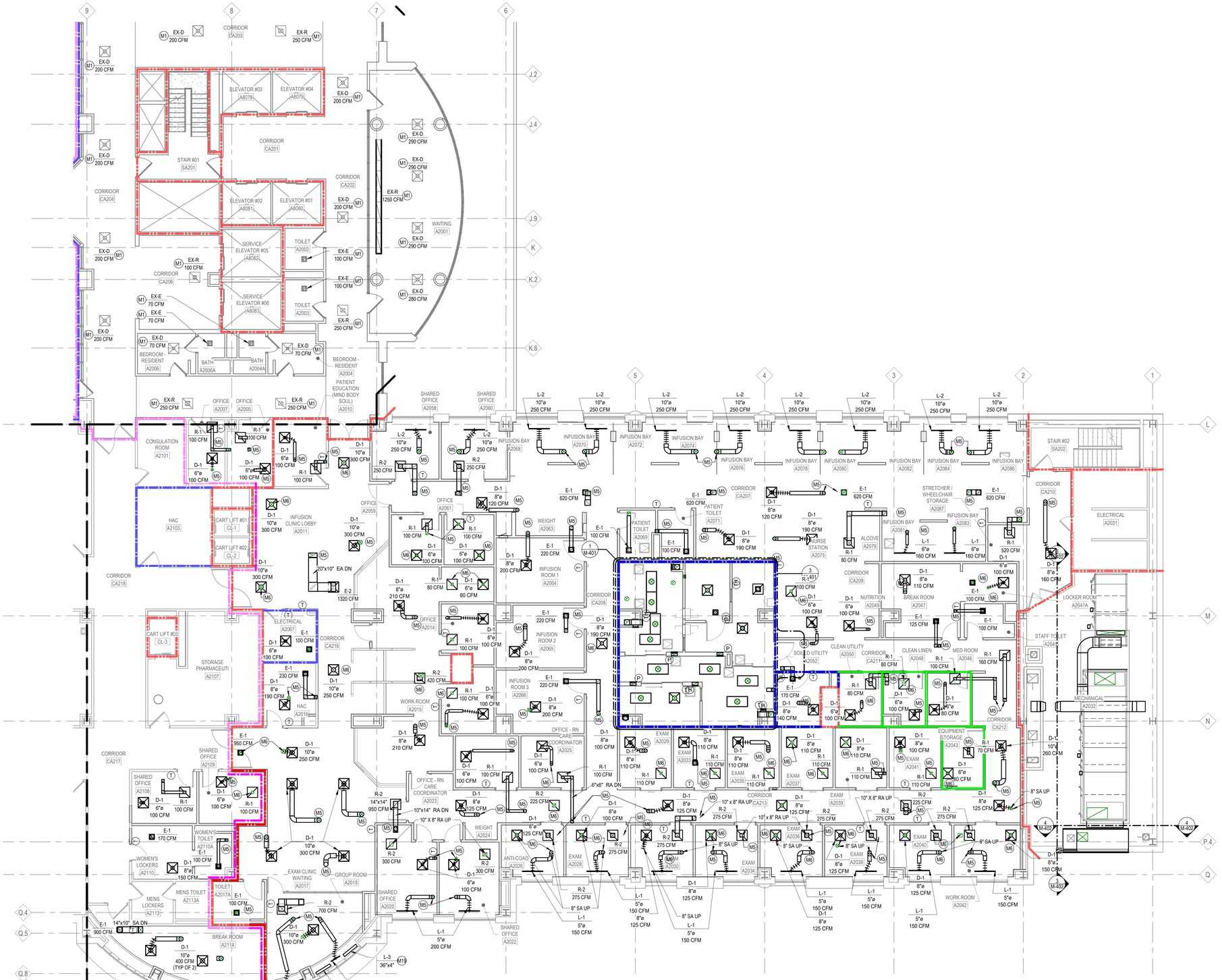

MECHANICAL HVAC PLAN - SECOND LEVEL - ZONE 1
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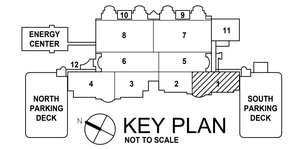
MECHANICAL GENERAL NOTES:

1. IF COMPLIANCE WITH TWO OR MORE DIFFERING STANDARDS, REQUIREMENTS, DRAWINGS OR SPECIFICATIONS, OR ANY COMBINATION THEREOF, IS SPECIFIED AND THESE ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. THE MOST STRINGENT REQUIREMENT WILL BE THE BETTER QUALITY OR GREATER QUANTITY OF WORK, AND WILL TYPICALLY BE THE MORE EXPENSIVE OPTION. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
2. THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, INDICATED NUMERIC VALUES ARE MINIMUM OR MAXIMUM, AS APPROPRIATE, FOR THE CONTEXT OF REQUIREMENTS. REFER UNCERTAINTIES TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
3. DESIGN DOCUMENTS MUST BE REPRODUCED IN THEIR ENTIRETY, INCLUDING ALL PLANS, SPECIFICATIONS, AND FRONT END DOCUMENTS.
4. ONLY COMPLETE DOCUMENT SETS ARE TO BE DISTRIBUTED TO SUBCONTRACTORS AND SUPPLIERS OF THE CONTRACTOR DURING BIDDING OR CONSTRUCTION.
5. FAILURE TO REVIEW AND COMPLY WITH A FULL SET OF CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS A VALID REASON FOR FAILURE TO MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
6. ALL MECHANICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL ORDINANCES, CODES, AND LAWS. FOR PURPOSES OF THIS DESIGN, THE CODES FOR THE STATE OF **MICHIGAN** WERE USED AS THE BASIS.
7. ALL ABOVE CEILING SYSTEMS AND COMPONENTS (INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, ETC.) SHALL BE COORDINATED SUCH THAT THE SYSTEMS ARE PROPERLY INTEGRATED IN THE SPACE PROVIDED ABOVE CEILING AT THE CEILING HEIGHTS NOTED. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO COORDINATE PATHWAYS WITHIN THE SPACE PROVIDED. CEILING HEIGHTS WILL NOT BE MODIFIED.
8. COORDINATE LOCATIONS OF ALL DEVICES WITH ARCHITECTURAL AND ELECTRICAL PRIOR TO ROUGH-IN. ALL CONFLICTS WITH FINISHES, ADJACENT CONSTRUCTION, AND CONSTRUCTION DOCUMENTS ARE TO GENERATE AN RFI FROM THE MECHANICAL CONTRACTOR TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING AND COMPLETION OF WORK.
9. HINGED STEEL ACCESS PANELS SHALL BE FURNISHED AND INSTALLED FOR ALL ABOVE CEILING EQUIPMENT REQUIRING ACCESS OR SERVICE (DAMPERS, TERMINAL UNITS, FILTERS, BALANCING VALVES, ISOLATION VALVES, ETC.) IN GYPSUM CEILINGS. PANELS SHALL BE KEYED FOR ACCESS BY MAINTENANCE STAFF ONLY, AND FINISHED WITH WHITE BAKED-ON ENAMEL. MECHANICAL CONTRACTOR SHALL CONSOLIDATE ABOVE CEILING ACCESS REQUIREMENTS TO LIMIT THE NUMBER OF PANELS.
10. CONTRACTOR SHALL FURNISH AND INSTALL BEVELED OR TAPERED TAKEOFFS AT ALL CONNECTIONS OF DUCT RUNOUTS TO TRUNKS. ALL FITTINGS SHALL BE IN ACCORDANCE WITH SMACNA.
11. CONTRACTOR SHALL FURNISH AND INSTALL MANUAL BALANCING DAMPERS AT ALL SUPPLY, RETURN, AND EXHAUST TRUNK BRANCHES AND RUNOUTS.
12. CONTRACTOR SHALL FURNISH AND INSTALL TEMPERATURE SENSOR IN SPACE RETURN DUCT. CONTRACTOR SHALL PLACE SENSORS TO ALLOW FOR ACCESS WITHIN 2' VIA RETURN GRILLE REMOVAL OR CEILING ACCESS PANELS.
13. CONTRACTOR SHALL FURNISH AND INSTALL TEMPERATURE SENSORS, HUMIDITY STATS AND RPMS FOR EQUIPMENT WHICH SHALL BE MOUNTED 60" AFF AWAY FROM HEAT PRODUCING EQUIPMENT, U.N.O.
14. CONTRACTOR SHALL FURNISH AND INSTALL ISOLATION AND BALANCING VALVES AT ALL HYDRONIC (HHW AND CHW) COILS, AND BALANCING VALVES AT EACH DISTRIBUTION LOOP ON THE RETURN PIPE. CONTRACTOR SHALL LOCATE VALVES TO ALLOW FOR ACCESS WITHIN 3' AFTER CONSTRUCTION IS COMPLETE.
15. MECHANICAL CONTRACTOR SHALL COORDINATE EQUIPMENT INSTALLATION WITH ROOFING CONTRACTOR OR ROOFING MANUFACTURER TO AVOID DAMAGE TO ROOFING SYSTEM.
16. COORDINATE LOCATIONS OF ALL DEVICES WITH ARCHITECTURAL, STRUCTURAL, CIVIL, INTERIORS, AND ELECTRICAL PRIOR TO ROUGH-IN. ALL CONFLICTS WITH FINISHES, ADJACENT CONSTRUCTION AND CONSTRUCTION DOCUMENTS ARE TO GENERATE AN RFI FROM THE MECHANICAL CONTRACTOR TO THE ENGINEER PRIOR TO PROCEEDING AND COMPLETION OF WORK.
17. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING ALL NEW MECHANICAL PENETRATIONS THROUGH RATED ASSEMBLIES, INSTALLING A FIRE DAMPER AT EACH FIRE-RATED WALL, AND A SMOKE DAMPER WHERE APPLICABLE.
18. MECHANICAL CONTRACTOR SHALL PROVIDE WATER PROOF SHEET METAL CAP, INSULATED (EQUIVALENT TO ROOF) FOR ALL DEMOLISHED ROOF PENETRATIONS.
19. A TEST AND BALANCE (TAB) IS REQUIRED FOR THE WORK.
20. ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH MOTOR STARTERS COMPATIBLE WITH CONTROLS SYSTEM. COORDINATE WITH CONTROLS AND ELECTRICAL CONTRACTORS.
21. IN UNFINISHED AREAS, INSTALL ALL MECHANICAL CONTROL DEVICES (THERMOSTATS, ROOM SENSORS, REMOTE TEST STATIONS, SMOKE DAMPER INDICATORS, ETC.) RECESSED IN WEB OF COLUMNS TO PREVENT DAMAGE.
22. PROVIDE EMERGENCY SHUTOFF AT BOILER ROOM EXIT DOORS TO SHUTDOWN ALL BOILERS PER CSD-1 REQUIREMENTS.
23. ALL CONTROLS WORK SHALL BE EXECUTED BY SIEMENS, WHOM SHALL PERFORM AS THE SOLE SOURCE CONTROLS CONTRACTOR AND SYSTEM INTEGRATOR AND SHALL BE RESPONSIBLE FOR ALL CONTROLS, SYSTEM INTEGRATION AND DIAGRAMS.
24. THE ACCEPTABLE SPACE TEMPERATURE SHALL BE 68F (COOLING) TO 68F (HEATING); THE ACCEPTABLE INDOOR RELATIVE HUMIDITY RANGE SHALL BE FROM A MINIMUM OF 30% UP TO 60%.
25. ALL SUPPLY NAD RETURN/EXHAUST DUCTWORK BRANCHES SHALL HAVE BALANCING/VOLUME DAMPERS, ACCESSIBLE FROM THE INTERSTITIAL ABOVE. DUCTWORK SHALL BE FABRICATED FOLLOWING THE REQUIREMENTS OF TO THE CURRENT VERSION OF THE VA HVAC DESIGN MANUAL AND SMACNA (HVAC SYSTEMS DUCT DESIGN).
26. FOR NEW DUCTWORK, CONTRACTOR SHALL CONSIDER: ALL VERTICAL DROPS FROM THE MAIN DUCT, SHALL HAVE A MINIMUM THIRTY DEGREE (SLOP) SHOE TAP IN THE FLOW DIRECTION. ALL ELBOWS SHALL HAVE A MINIMUM R/D RATIO OF (1.5, IDEALLY 2.0).
27. PROVIDE NEW OPENING IN INTERSTIAL FLOOR WHERE REQUIRED FOR NEW DUCTWORK. PROVIDE ANGLE FRAMING AROUND ALL FLOOR PENETRATIONS. SUPPORT AT NEAREST WALL OR FRAMING MEMBER. THE MAXIMUM OPENING SIZE WITHOUT FRAMING SHALL BE 8" SQUARE OR 8" DIAMETER.
28. NO FLEX DUCT IN THE SATELITTE PHARMACY SHALL BE USED.
29. CONTRACTOR SHALL ENSURE SMOKE AIRFLOW VISUALIZATION TESTING COMPLETED PER LATEST VERSION OF CETA CAG 0-14.

MECHANICAL KEYNOTES

KEY VALUE	KEYNOTE TEXT
M1	REBALANCE TO FLOW RATE INDICATED.
M5	NEW DUCT FROM INTERSTITIAL. UTILIZE THE EXISTING OPENING IN THE INTERSTITIAL FLOOR TO ROUTE NEW DUCT. ENLARGE OPENING AS REQUIRED. INFILL AND FIRESTOP BETWEEN DUCT AND FLOOR OPENING.
M6	NEW DUCT AND NEW INTERSTITIAL FLOOR OPENING. FIRESTOP BETWEEN DUCT AND FLOOR OPENING.
M19	LINEAR GRILLE IN BENCH TOP AND CABINET FACE FOR FINNED TUBE AIR CIRCULATION. SEE DETAIL 11 ON SHEET A-502.



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Office of Construction and Facilities Management
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Drawing Title: HVAC PLAN - SECOND LEVEL - ZONE 1
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Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
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Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: JDL/AS
Drawn: REF
Project Number: 553-21-100
Building Number:
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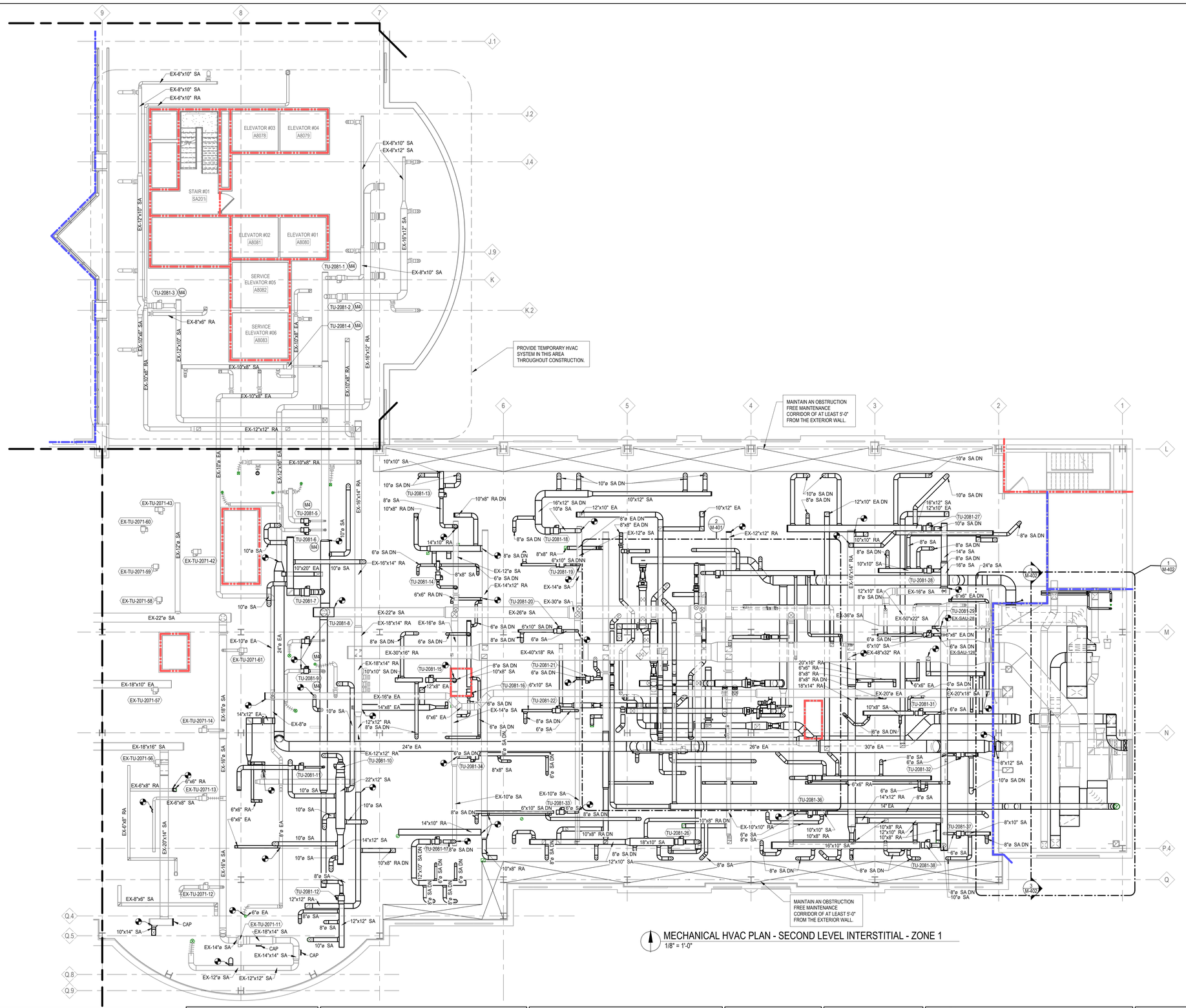

MECHANICAL HVAC PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
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NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

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MECHANICAL KEYNOTES

KEY VALUE	KEYNOTE TEXT
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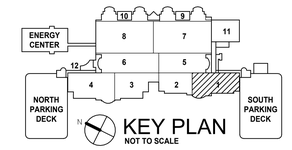

KEY PLAN
NOT TO SCALE

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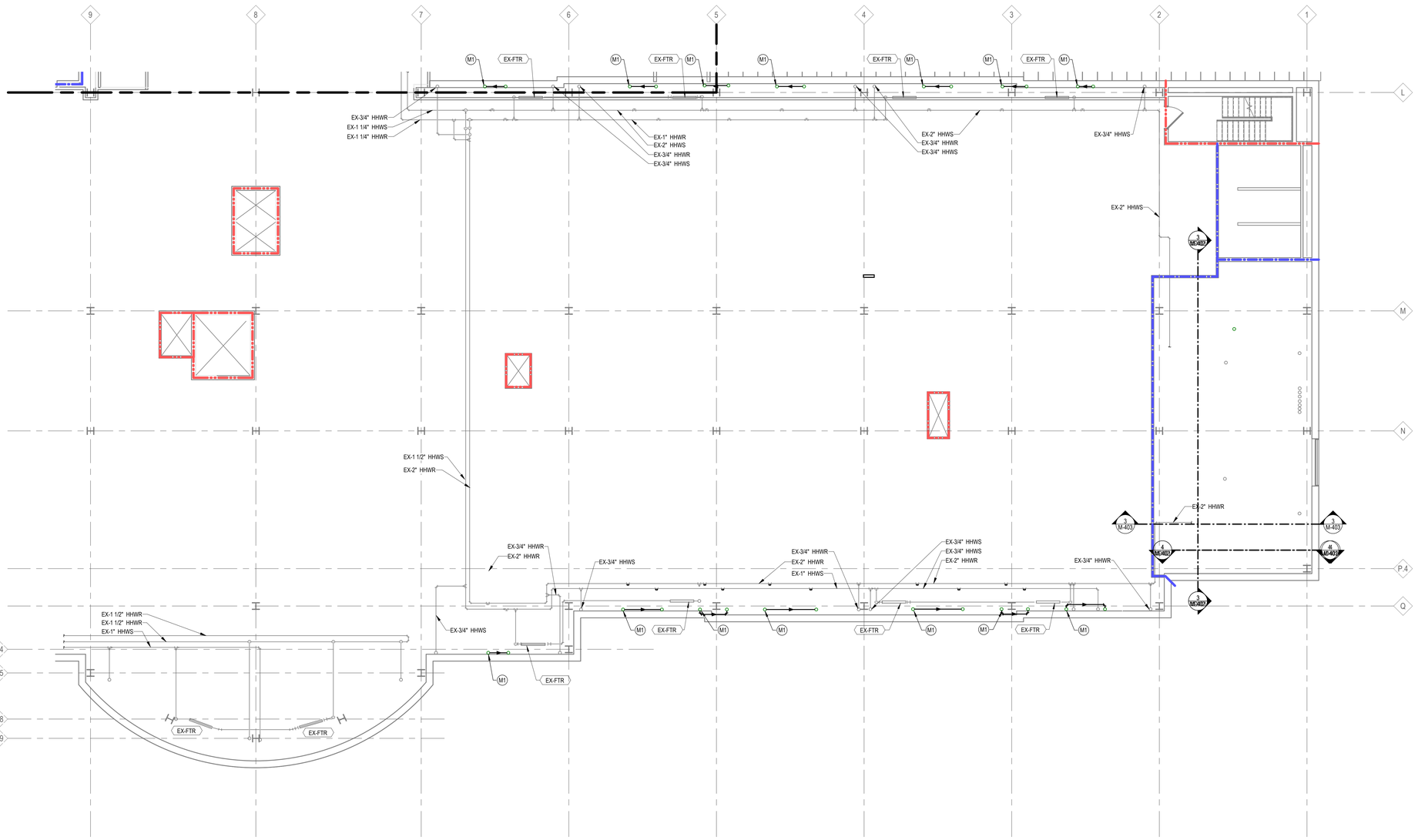

MECHANICAL PIPING PLAN - FIRST LEVEL INTERSTITIAL - ZONE 1
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PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
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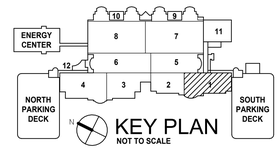

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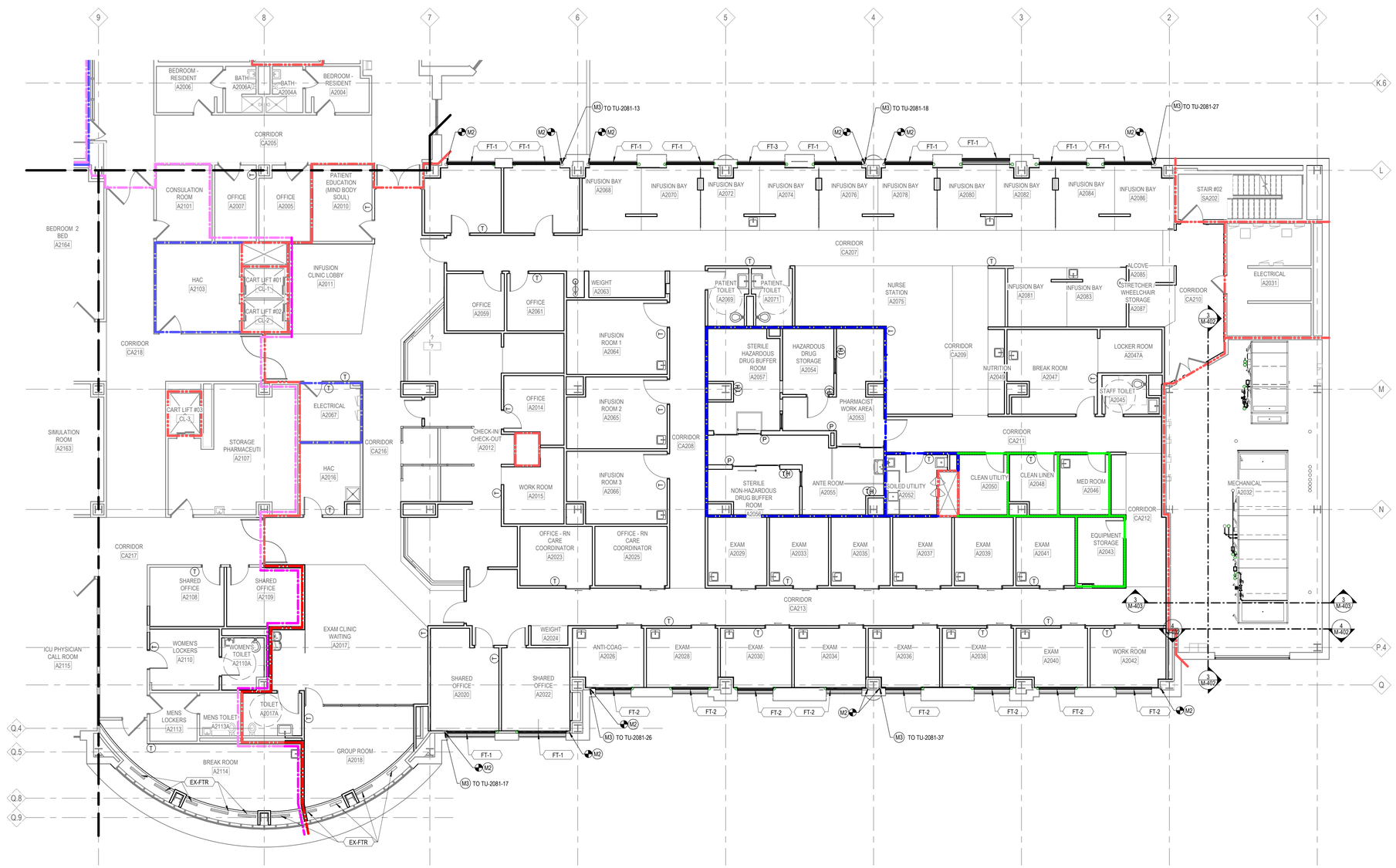

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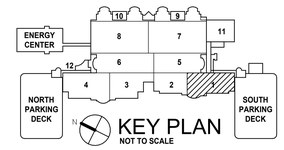
MECHANICAL KEYNOTES

KEY VALUE	KEYNOTE TEXT
M2	SUPPLY AND RETURN PIPING IS LOCATED IN THE FIRST FLOOR INTERSTITIAL.
M3	CONNECT CONTROL VALVE TO TERMINAL UNIT CONTROLLER SERVING THIS ZONE.



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

Drawing Title: PIPING PLAN - SECOND LEVEL - ZONE 1
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: JDL/AS
Drawn: REF
Project Number: 553-21-100
Building Number:
Drawing Number: MP102

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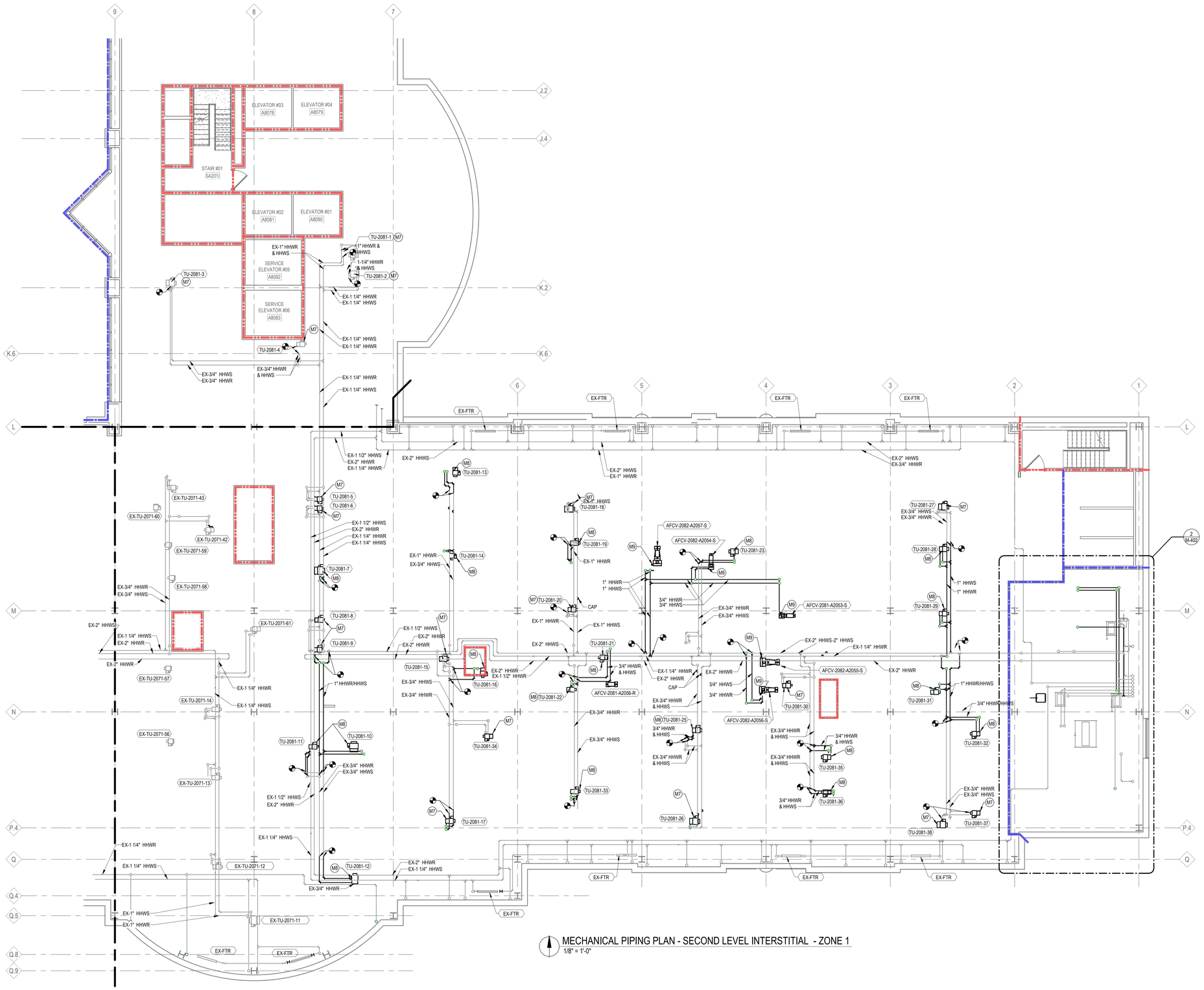

MECHANICAL PIPING PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1
1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

MECHANICAL GENERAL NOTES:

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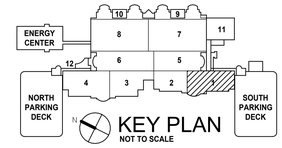
MECHANICAL KEYNOTES

KEY VALUE	KEYNOTE TEXT
M7	CONNECT EXISTING PIPING TO REHEAT COIL AT NEW TERMINAL UNIT.
M8	EXTEND A 3/4" HHWS/HHWR FROM EXISTING PIPING TO REHEAT COIL AT NEW TERMINAL UNIT.
M9	NEW PIPING, CONNECT TO REHEAT COIL AT NEW AFCV.



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

Drawing Title: **PIPING PLAN - SECOND LEVEL INTERSTITIAL - ZONE 1**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **JDL/AS**
Drawn: **REF**
Project Number: **553-21-100**
Building Number:
Drawing Number: **MP102.I**

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MECHANICAL KEYNOTES

KEY VALUE	KEYNOTE TEXT
M11	NEW DUCT AND NEW INTERSTITIAL FLOOR OPENING. FIRESTOP BETWEEN DUCT AND FLOOR OPENING. NO FLEX DUCT SHALL BE USED.
M12	EXHAUST DUCTWORK INSTALLED WITHIN THE STUDS IN THE WALL. TWO EXHAUST GRILLES WITH OBDS, TOP AND BOTTOM. TOP GRILLE TO EXHAUST REFRIGERATOR'S COMPRESSOR, BOTTOM GRILLE TO EXHAUST ITS CONDENSATE TRAY. CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE VA FOR EXACT RESPECTIVE PLACEMENTS.
M13	DUCTWORK SHALL BE INSTALLED IN THE WALL CAVITY WITHIN STUDS. LOW WALL EXHAUST/RETURN GRILLES SHALL BE INSTALLED SEVEN INCHES AFF (ABOVE FINISHED FLOOR).
M14	CANOPY/THIMBLE CONNECTION CONNECTED TO WELDED 316 STAINLESS STEEL, GAUGE 18 MINIMUM EXHAUST DUCTWORK. CONTRACTOR SHALL INSTALL A MANUAL BALANCING DAMPER AFTER THE GERMFREE THIMBLE TRANSITION CONNVICTION PREFERABLY ACCESSIBLE FROM INSIDE THE BUFFER ROOM. IF NOT POSSIBLE LOCATE IN THE INTERSTITIAL SPACE AS SHOWN.
M15	TAB THE LOW WALL ROOM EXHAUST AND ITS ASSOCIATED DUCTWORK AT 360 CFM (ADJ). REFER TO KEY NOTE M18 BELOW. CASES BASED ON THE NUMBER OF BSCs IN OPERATION: ROOM EXHASUT AIR SHALL BE EITHER 180 CFM (NORMAL MODE OF OPERATION) WHEN BOTH CLASS II TYPE A2 BSCs ARE IN SERVICE OR 360 CFM WHEN NON OF THE CLASS II TYPE A2 BSCs ARE IN SERVICE AND EF-BSC-1 (N+1) IS SHUT DOWN (NOT IN SERVICE), RESPECTIVELY.
M16	TAB THE LOW WALL ROOM EXHAUST AND ITS ASSOCIATED DUCTWORK AT 300 CFM (ADJ). REFER TO KEY NOTE M18 BELOW. CASES BASED ON THE NUMBER OF BSCs IN OPERATION: ROOM EXHASUT AIR SHALL BE EITHER 145 CFM (NORMAL MODE OF OPERATION) WHEN BOTH CLASS II TYPE A2 BSCs ARE IN SERVICE OR 300 CFM WHEN NON OF THE CLASS II TYPE A2 BSCs ARE IN SERVICE AND EF-BSC-1 (N+1) IS SHUT DOWN (NOT IN SERVICE), RESPECTIVELY.
M17	TAB THE LOW WALL ROOM EXHAUST AND ITS ASSOCIATED DUCTWORK AT 240 CFM (ADJ). REFER TO KEY NOTE M18 BELOW. CASES BASED ON THE NUMBER OF BSCs IN OPERATION: ROOM EXHASUT AIR SHALL BE EITHER 120 CFM (NORMAL MODE OF OPERATION) WHEN BOTH CLASS II TYPE A2 BSCs ARE IN SERVICE OR 240 CFM WHEN NON OF THE CLASS II TYPE A2 BSCs ARE IN SERVICE AND EF-BSC-1 (N+1) IS SHUT DOWN (NOT IN SERVICE), RESPECTIVELY.

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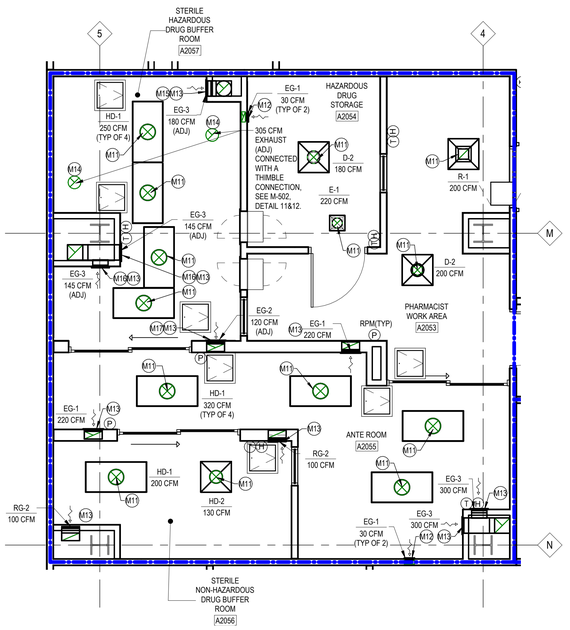
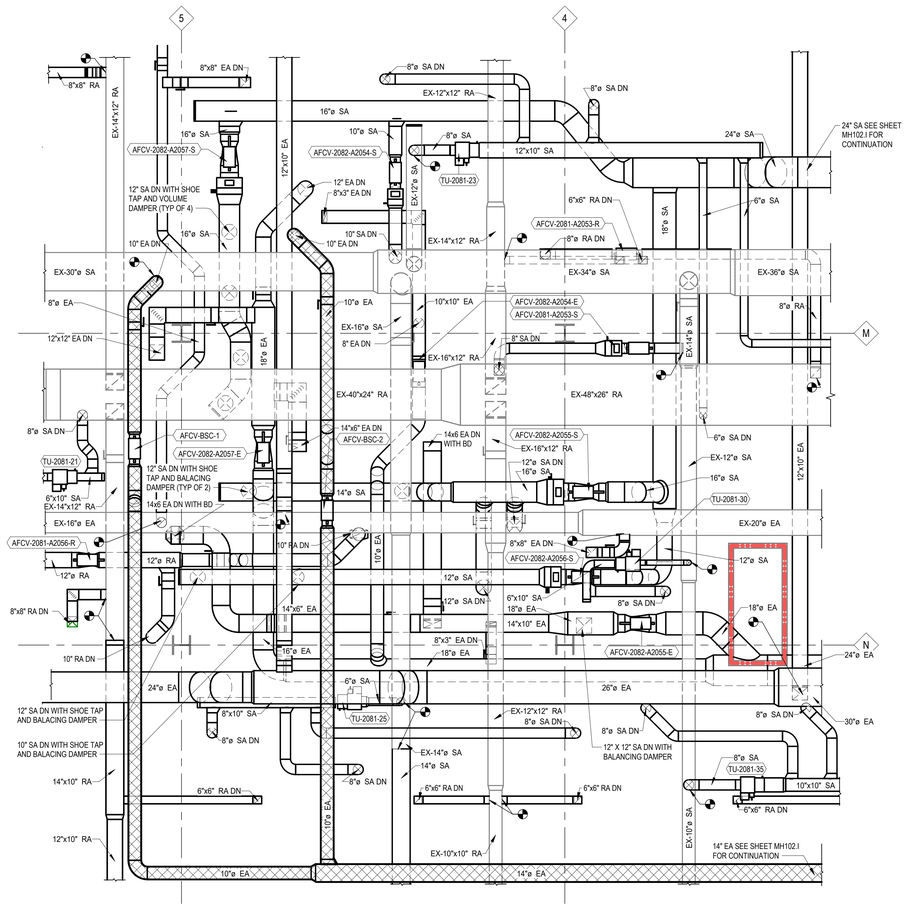
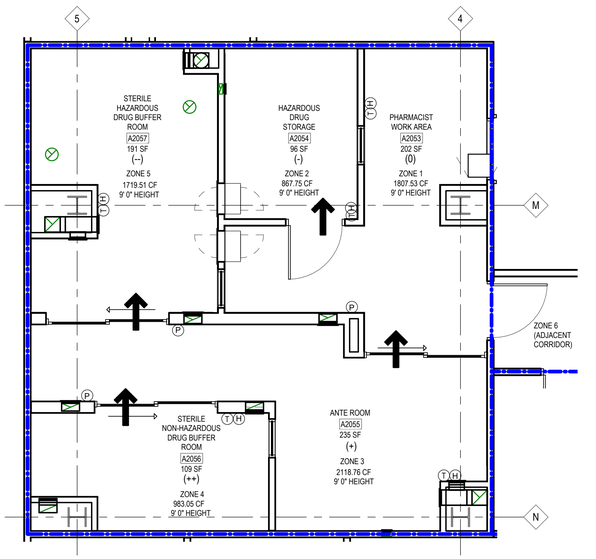
23. ALL CONTROLS WORK SHALL BE EXECUTED BY SIEMENS, WHOM SHALL PERFORM AS THE SOLE SOURCE CONTROLS CONTRACTOR AND SYSTEM INTEGRATOR AND SHALL BE RESPONSIBLE FOR ALL CONTROLS SYSTEM INTEGRATION AND DIAGRAMS.
24. THE ACCEPTABLE SPACE TEMPERATURE SHALL BE 68F (COOLING) TO 68F (HEATING); THE ACCEPTABLE INDOOR RELATIVE HUMIDITY RANGE SHALL BE FROM A MINIMUM OF 30% UP TO 60%.
25. ALL SUPPLY NAD RETURN/EXHAUST DUCTWORK BRANCHES SHALL HAVE BALANCING/VOLUME DAMPERS, ACCESSIBLE FROM THE INTERSTITIAL ABOE. DUCTWORK SHALL BE FABRICATED FOLLOWING THE REQUIREMENTS OF TO THE CURRENT VERSION OF THE VA HVAC DESIGN MANUAL AND SMACNA (HVAC SYSTEMS DUCT DESIGN).
26. FOR NEW DUCTWORK, CONTRACTOR SHALL CONSIDER: ALL VERTICAL DROPS FROM THE MAIN DUCT, SHALL HAVE A MINIMUM THIRTY DEGREE (SLOP) SHOE TAP IN THE FLOW DIRECTION. ALL ELBOWS SHALL HAVE A MINIMUN R/D RATIO OF (1.5, IDEALLY 2.0).
27. PROVIDE NEW OPENING IN INTERSTIAL FLOOR WHERE REQUIRED FOR NEW DUCTWORK. PROVIDE ANGLE FRAMING AROUND ALL FLOOR PENETRATIONS. SUPPORT AT NEAREST WALL OR FRAMING MEMBER. THE MAXIMUM OPENING SIZE WITHOUT FRAMING SHALL BE 8" SQUARE OR 8" DIAMETER.
28. NO FLEX DUCT IN THE SATELITTE PHARMACY SHALL BE USED.
29. CONTRACTOR SHALL ENSURE SMOKE AIRFLOW VISUALIZATION TESTING COMPLETED PER LATEST VERSION OF CETA CAG 0-14.



3 MH102 ENLARGED SATELLITE USP PHARMACY MECHANICAL - SECOND FLOOR
1/4" = 1'-0"



2 MH102.I ENLARGED USP 800 MECHANICAL PLAN - SECOND FLOOR INTERSTITIAL
1/4" = 1'-0"



1 MH102 ENLARGED SATELLITE PHARMACY USP 800 MECHANICAL AIRFLOW PLAN - SECOND FLOOR
1/4" = 1'-0"

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Revisions:	Date:

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Drawing Title: **ENLARGED MECHANICAL PLANS**
Approved:
Phase: **100% BID DOCUMENTS**
FULLY SPRINKLERED
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **JDL/AS**
Drawn: **REF**
Project Number: **553-21-100**
Building Number:
Drawing Number: **M-401**

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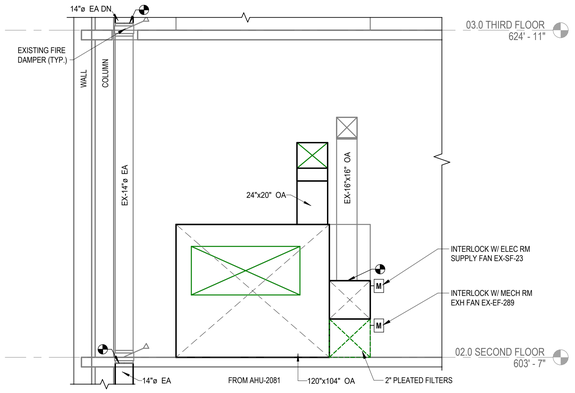
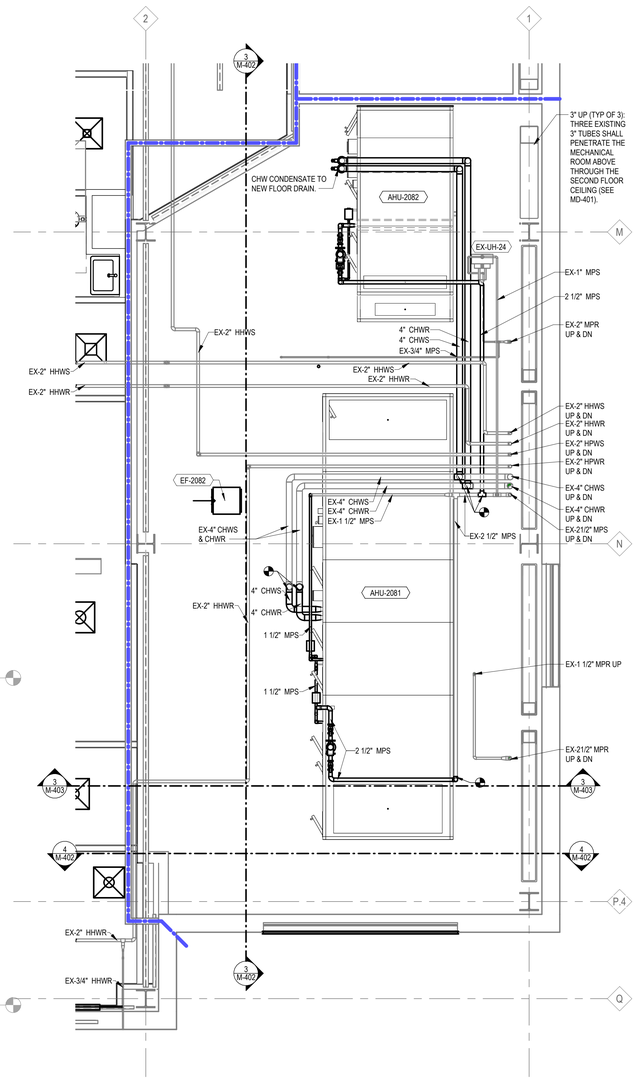
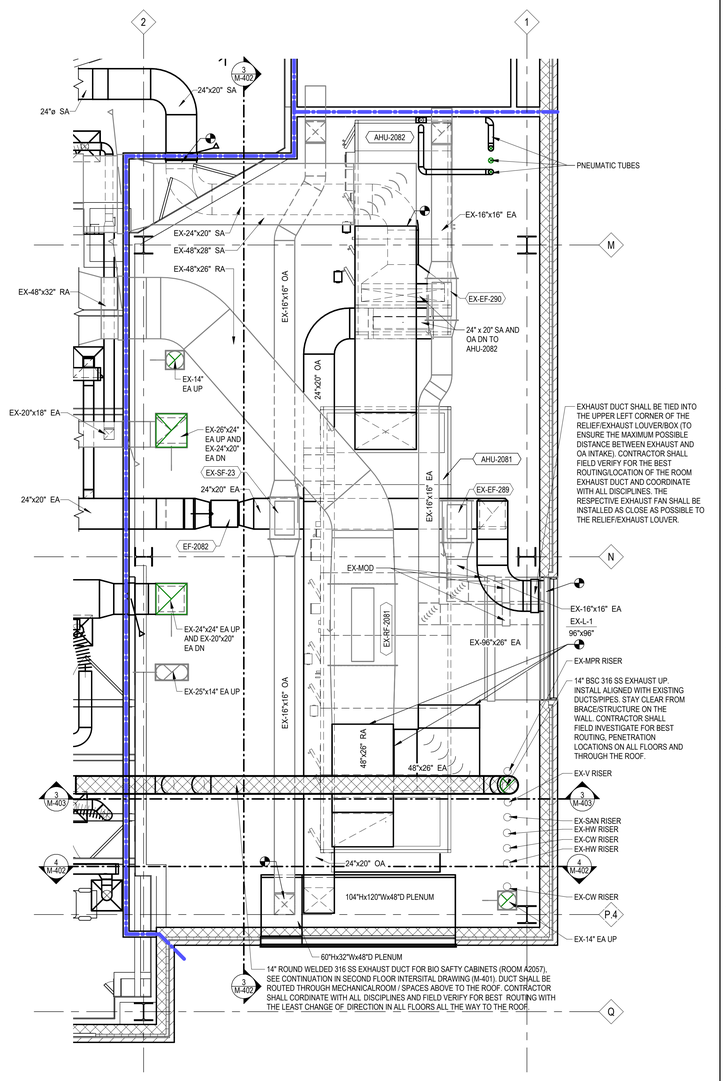


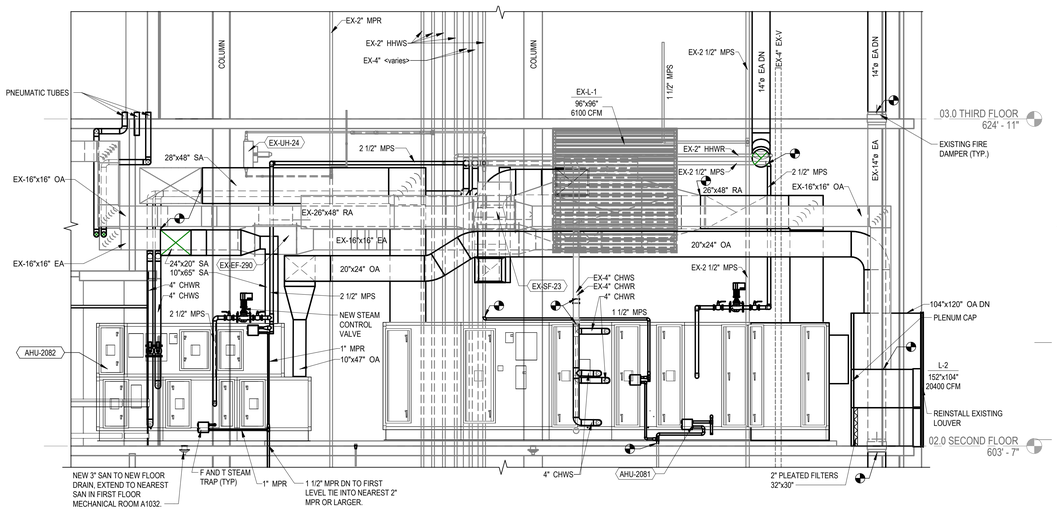
4 M-402 SECTION - AHU-2081 AIR INTAKE
1/4" = 1'-0"



2 MP102 ENLARGED MECHANICAL ROOM A2032 PIPING PLAN
1/4" = 1'-0"



1 MH102 ENLARGED MECHANICAL ROOM A2032 HVAC PLAN
1/4" = 1'-0"



3 M-402 SECTION - MECHANICAL ROOM A2032
1/4" = 1'-0"

Revisions:	Date:
100% BID DOCUMENTS	10-JAN-2025
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Drawing Title: ENLARGED MECHANICAL PLANS
Phase: 100% BID DOCUMENTS
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Project Number: 553-21-100
Building Number:
Approved:
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Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: JDL/AS
Drawn: REF
Drawing Number: M-402

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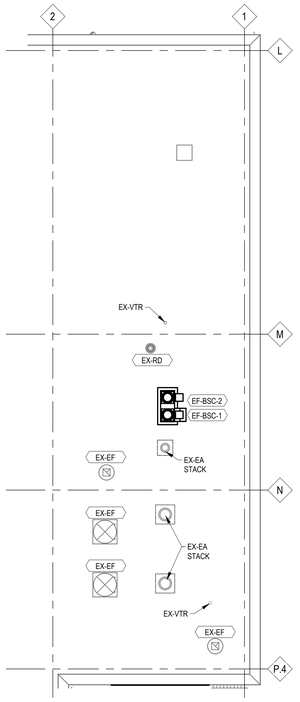
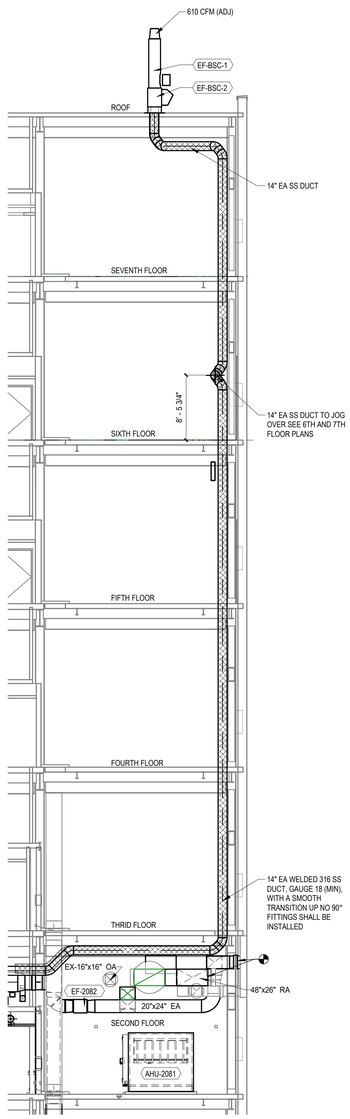
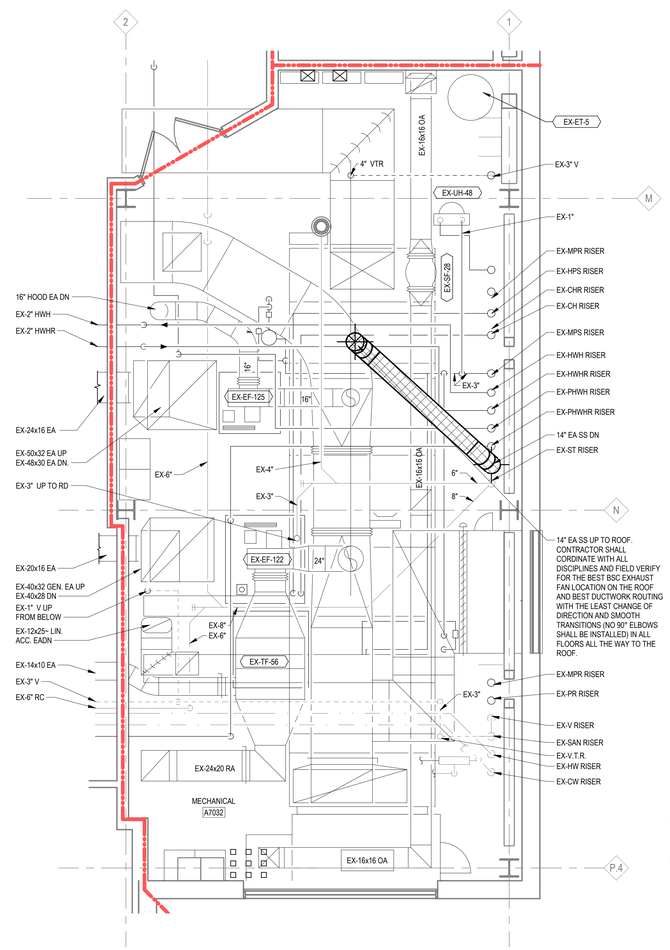


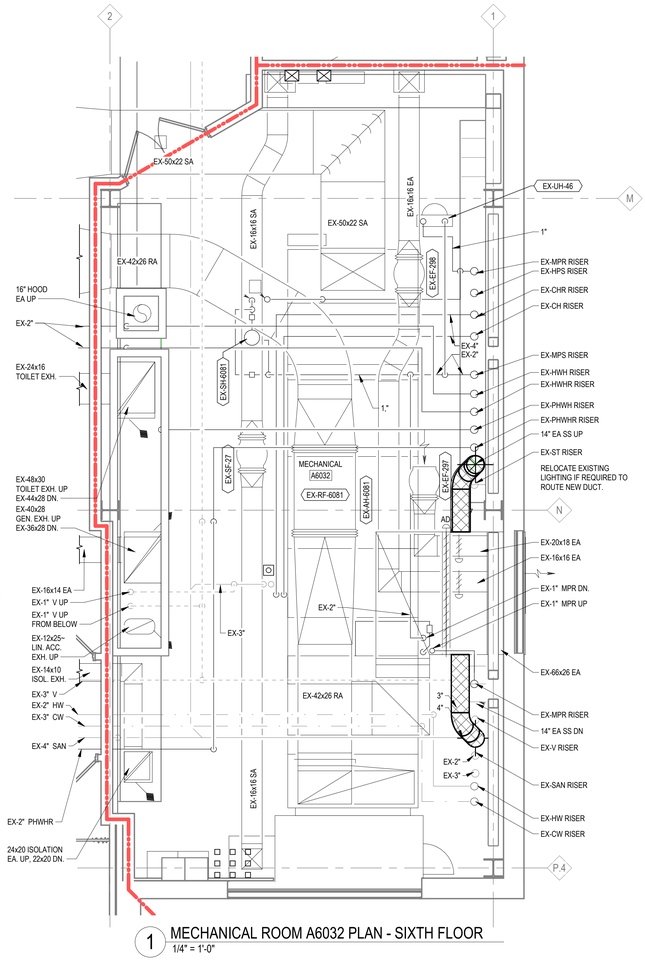
4 ROOF PLAN
1/8" = 1'-0"



3 BSC EXHAUST SECTION
1/8" = 1'-0"



2 MECHANICAL ROOM A7032 PLAN - SEVENTH FLOOR
1/4" = 1'-0"



1 MECHANICAL ROOM A6032 PLAN - SIXTH FLOOR
1/4" = 1'-0"

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Drawing Title: **ENLARGED MECHANICAL PLANS**

Approved:

Phase: **100% BID DOCUMENTS**

FULLY SPRINKLERED

Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**

Location: **DETROIT, MI**

Issue Date: **10-JAN-2025**

Checked: **JDL/AS**

Drawn: **REF**

Project Number: **553-21-100**

Building Number:

Drawing Number: **M-403**

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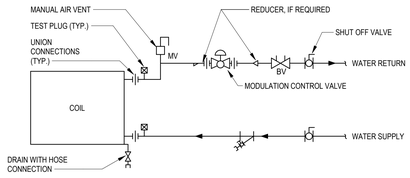
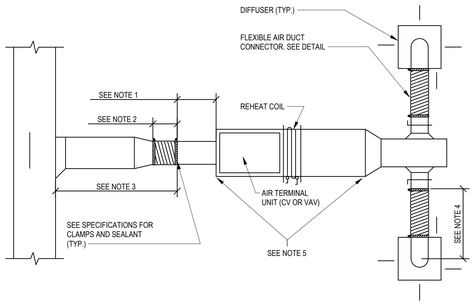


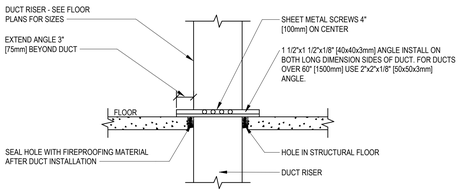
8 TERMINAL UNIT WATER COILS - PIPING CONNECTIONS (2-WAY VALVE)
NOT TO SCALE



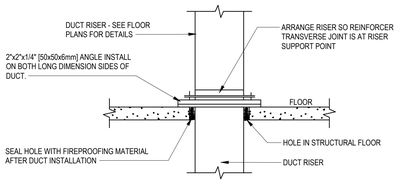
NOTE:

1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET.
2. A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 3'-0" [900MM].
3. A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET, PROVIDED THE EQUIVALENT LENGTH OF THE BRANCH DUCT, AS SHOWN, DOES NOT EXCEED 10 FEET (3 METERS). FOR LONGER LENGTHS, INCREASE THE DUCT SIZE AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW 0.2"/100' [1.64PA/M].
4. FLEXIBLE AIR DUCT CONNECTORS, WHEN USED FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER, SHALL NOT EXCEED 5'-0" [1500MM]. USE RIGID ELBOWS FOR CHANGE OF DIRECTION GREATER THAN 45°.
5. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION W/VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.

7 DUCT CONNECTIONS - AIR TERMINAL UNITS
NOT TO SCALE



0.5 INCH WG [125Pa] TO 2 INCHES WG [500Pa] DUCT RISER SUPPORT

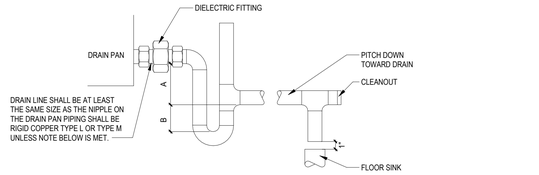


2 INCHES WG [500Pa] TO 4 INCHES WG [1000Pa] DUCT RISER SUPPORT

NOTE:

ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND FAN ROOM FLOORS SHALL BE PROVIDED WITH A 3" [75MM] HIGH CONCRETE CURB AROUND OPENING FOR DUCT.

4 DUCT RISER SUPPORTS
NOT TO SCALE



NOTE:

1. SEE MANUFACTURER'S PIPING RECOMMENDATIONS FOR FINAL LAYOUT.

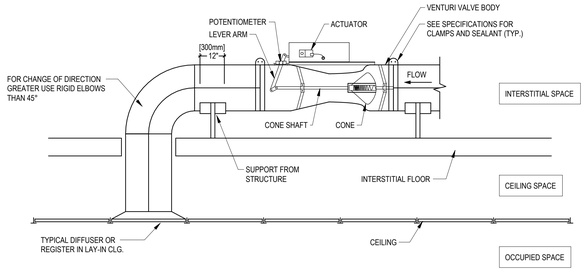
3 STEAM HUMIDIFIER - PIPING CONNECTIONS
NOT TO SCALE

NOTES:
1. CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.
2. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMMILAR METALS ARE TO BE CONNECTED.

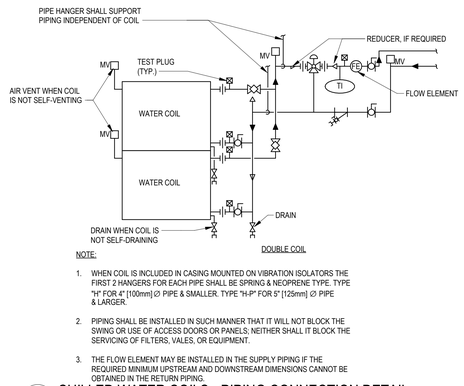
UNIT TYPE	A	B
DRAW THRU	2" PLUS X	X
BLOW THRU	1" MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

6 AIR HANDLING UNIT DRAIN TRAP DETAIL
NOT TO SCALE



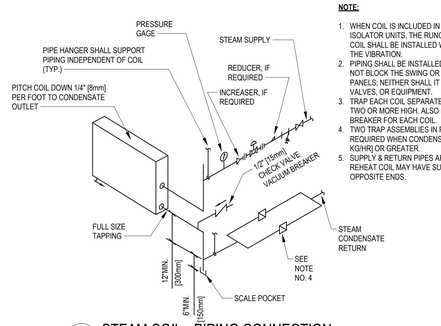
5 VENTURI VALVE DETAIL
NOT TO SCALE



NOTE:

1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATORS THE FIRST 2 HANGERS FOR EACH PIPE SHALL BE SPRING & NEOPRENE TYPE. TYPE "H" FOR 4" [100mm] ∅ PIPE & SMALLER. TYPE "H-P" FOR 5" [125mm] ∅ PIPE & LARGER.
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALVES, OR EQUIPMENT.
3. THE FLOW ELEMENT MAY BE INSTALLED IN THE SUPPLY PIPING IF THE REQUIRED MINIMUM UPSTREAM AND DOWNSTREAM DIMENSIONS CANNOT BE OBTAINED IN THE RETURN PIPING.

2 CHILLED WATER COILS - PIPING CONNECTION DETAIL
NOT TO SCALE



NOTE:

1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATOR UNITS, THE RUNOUT PIPING FOR CONNECTIONS TO COIL SHALL BE INSTALLED WITH SWING JOINTS TO ALLOW FOR THE VIBRATION.
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALVES, OR EQUIPMENT.
3. TRAP EACH COIL SEPARATELY WHEN INSTALLED IN A BANK OF TWO OR MORE HIGH. ALSO PROVIDE SEPARATE VACUUM BREAKER FOR EACH COIL.
4. TWO TRAP ASSEMBLIES IN PARALLEL ARE SHOWN. TWO TRAPS REQUIRED WHEN CONDENSATE LOAD IS 5,000 LBS/HR [2400 KG/HR] OR GREATER.
5. SUPPLY & RETURN PIPES ARE SHOWN FROM SAME END. REHEAT COIL MAY HAVE SUPPLY & RETURN PIPES FROM OPPOSITE ENDS.

1 STEAM COIL - PIPING CONNECTION
NOT TO SCALE

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Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
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Building Number:
Drawing Number: **M-501**

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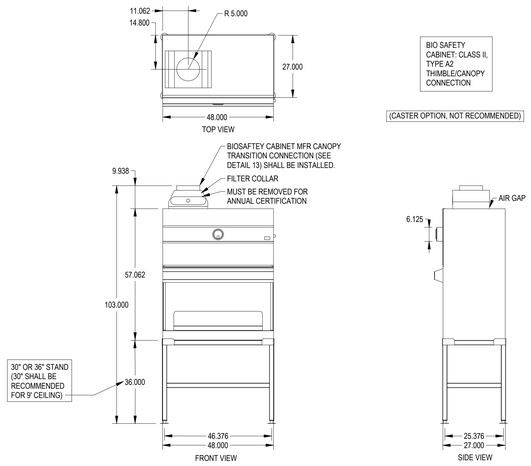
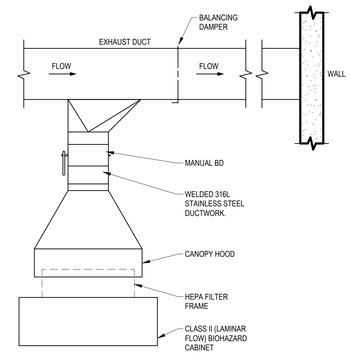
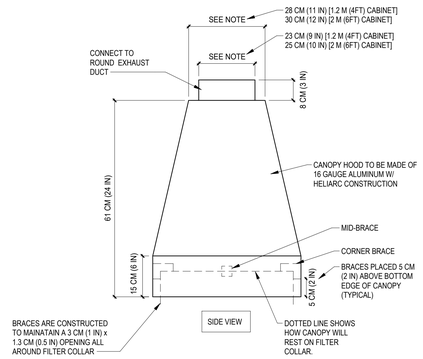


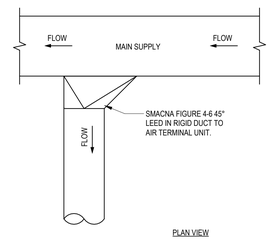
11 BIO SAFETY CABINET DETAIL
NOT TO SCALE



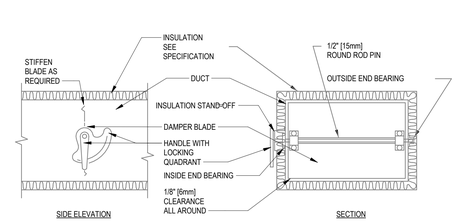
12 CLASS II (LAMINAR FLOW) TYPE A BIOSAFETY CABINET VENTING SYSTEM
NOT TO SCALE



13 CANOPY VENTING FOR CLASS II (LAMINAR FLOW) TYPE A BIOSAFETY CABINET
NOT TO SCALE



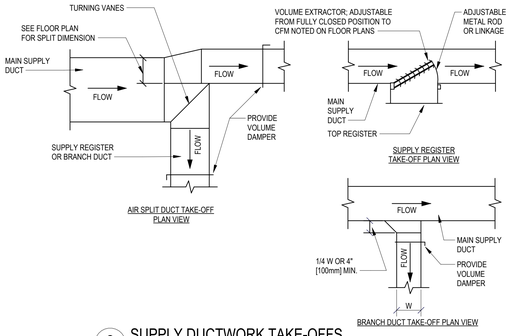
10 SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS
NOT TO SCALE



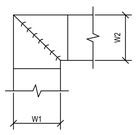
NOTE:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

9 VOLUME DAMPER DETAIL
NOT TO SCALE



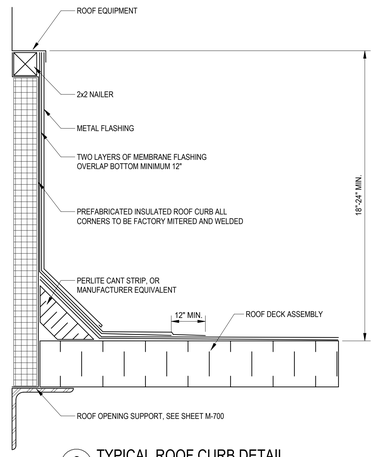
8 SUPPLY DUCTWORK TAKE-OFFS
NOT TO SCALE



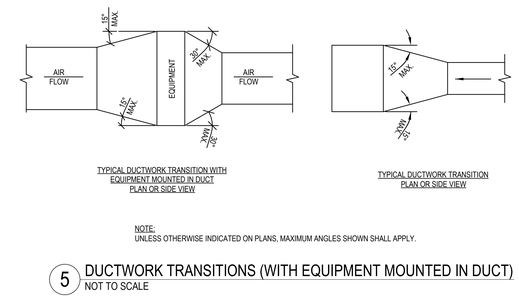
NOTE:

1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" [50MM] RADIUS, 1 1/2" [40MM] MAXIMUM SPACE BETWEEN VANES AND A 3/4" [20MM] TRAILING EDGE.
4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" [500MM] VANES SHALL BE DOUBLE VANE TYPE.

7 DUCTWORK SQUARE VANE ELBOWS
NOT TO SCALE

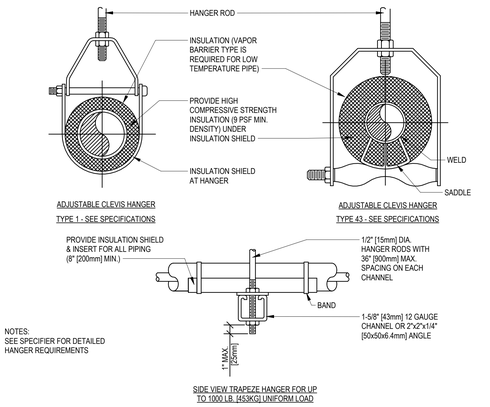


6 TYPICAL ROOF CURB DETAIL
NOT TO SCALE



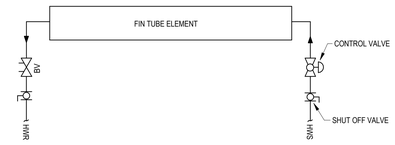
NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

5 DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCT)
NOT TO SCALE

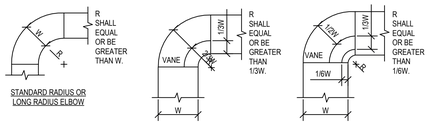


NOTES:
SEE SPECIFIER FOR DETAILED HANGER REQUIREMENTS

1 PIPE HANGERS
NOT TO SCALE



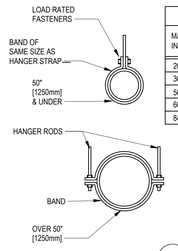
4 FIN TUBE ELEMENT - PIPING CONNECTIONS
NOT TO SCALE



NOTE:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

3 DUCTWORK RADIUS ELBOWS
NOT TO SCALE



HANGER STRAPS OR RODS			
MAX. DUCT Ø IN. [mm]	QUANTITY/SIZE IN. [mm]	MAX. LOAD LBS. [kg]	MAX. SPACING IN. [mm]
26 [650]	ONE 1 [25] x 22 GA STRAP	260 [119]	144 [3600]
36 [900]	ONE 1 [25] x 18 GA STRAP	420 [190]	144 [3600]
50 [1250]	ONE 1 [25] x 16 GA STRAP	700 [317]	144 [3600]
60 [1500]	TWO 3/8 [10] RODS	1320 [598]	144 [3600]
84 [2100]	TWO 1/2 [13] RODS	2500 [1133]	144 [3600]

NOTE:

TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

2 ROUND DUCT HANGERS
NOT TO SCALE

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

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

Drawing Title: **MECHANICAL DETAILS**
Phase: **100% BID DOCUMENTS**
Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**
Project Number: **553-21-100**
Building Number:
Approved:
FULLY SPRINKLERED
Location: **DETROIT, MI**
Issue Date: **10-JAN-2025**
Checked: **JDL/AS**
Drawn: **REF**
Drawing Number: **M-502**

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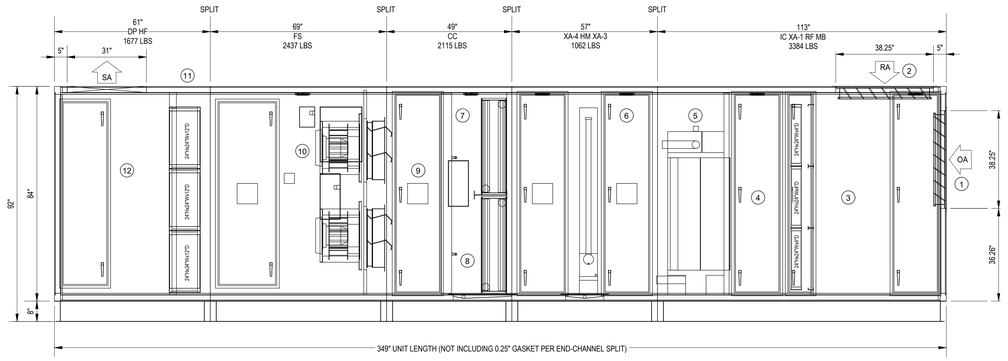


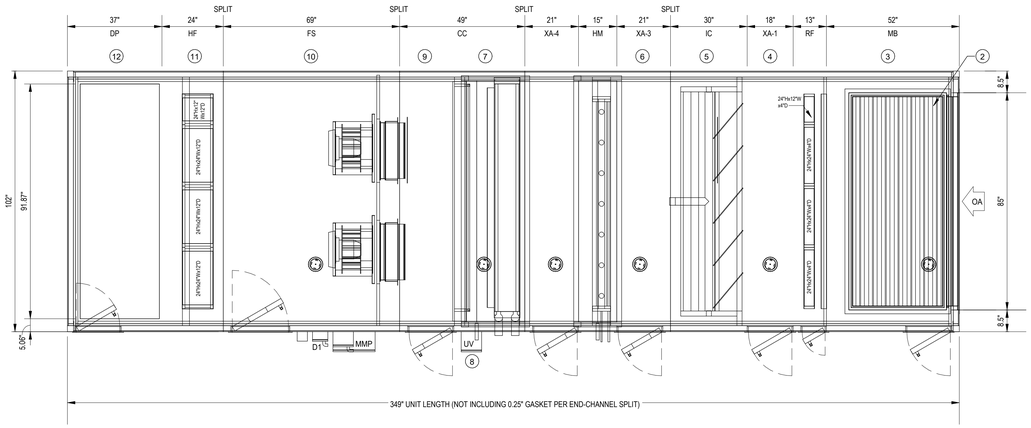
ELEVATION VIEW (1)

LEGEND

1. OUTSIDE AIR DAMPER
2. RETURN AIR DAMPER
3. MIXING BOX
4. PRE-FILTERS
5. INTEGRAL STEAM COIL WITH FACE & BYPASS DAMPERS
6. STEAM HUMIDIFIER
7. COOLING COIL
8. UV LIGHTS
9. ACCESS SECTION
10. SUPPLY FANS
11. FINAL FILTERS
12. DISCHARGE AIR PLENUM

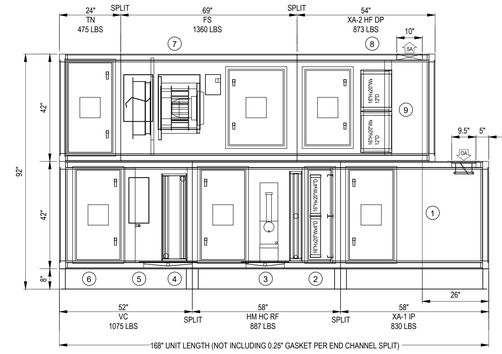
NOTES

(1) ALL DIMENSIONS ARE APPROXIMATE. SEE THE APPROVED EQUIPMENT SUBMITTALS FOR ACTUAL DIMENSIONS.



PLAN VIEW (1)

2 AIR HANDLING UNIT AHU-2081 DETAIL
1/2" = 1'-0"



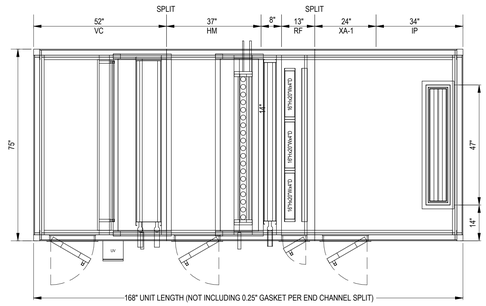
ELEVATION VIEW (1)

LEGEND

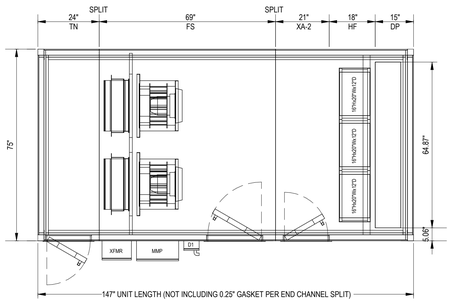
1. OUTSIDE AIR INTAKE
2. PRE-FILTERS
3. INTEGRAL STEAM COIL
4. COOLING COIL
5. UV LIGHTS
6. ACCESS SECTION
7. SUPPLY FANS
8. FINAL FILTERS
9. SUPPLY / DISCHARGE

NOTES

(1) ALL DIMENSIONS ARE APPROXIMATE. SEE THE APPROVED EQUIPMENT SUBMITTALS FOR ACTUAL DIMENSIONS.



PLAN VIEW - TIER 1 (1)



PLAN VIEW - TIER 2 (1)

1 AIR HANDLING UNIT AHU-2082 DETAIL
1/2" = 1'-0"

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **MECHANICAL AHU DETAILS**

Approved:

Phase: **100% BID DOCUMENTS**

FULLY SPRINKLERED

Project Title: **RENOVATE A2 SOUTH FOR CANCER CLINIC**

Location: **DETROIT, MI**

Issue Date: **10-JAN-2025**

Checked: **JDL/AS**

Drawn: **REF**

Project Number: **553-21-100**

Building Number:

Drawing Number: **M-503**

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HVAC DESIGN DATA

DESIGN CONDITION	SUMMER			WINTER			REMARK
	DB TEMP.	WB TEMP.	% HUMIDITY	DB TEMP.	DEWPOINT TEMP.	% HUMIDITY	
OUTSIDE	91°F	76°F	50	3°F	3°F	-	1
EXAM ROOMS	75°F	62°F	60	70°F	37°F	30	1
STAFF OFFICE	75°F	62°F	60	70°F	37°F	30	1
STAFF BREAK	75°F	62°F	60	70°F	37°F	30	1
CLEAN UTILITY	-	-	-	-	-	-	2
SOILED UTILITY	-	-	-	-	-	-	2
STORAGE	-	-	-	-	-	-	2
WAITING ROOMS	75°F	62°F	60	70°F	37°F	30	1
TOILET ROOMS	-	-	-	70°F	-	-	1
CORRIDORS	75	62°F	60	70°F	37°F	30	1

NOTES:
1. FROM VA HVAC DESIGN MANUAL
2. NO VA REQUIREMENTS FOR THESE ROOMS

AIR FLOW CONTROL VALVE SCHEDULE

ROOM NO.	ROOM NAME	DEVICE SERVED	TAG NO.	LAB DETAIL NO.	MODEL NUMBER	AIRFLOW (CFM)				REHEAT COIL				NOTES
						TERMINAL MIN	TERMINAL MAX	OPERATING MIN CFM	OPERATING MAX CFM	EAT (°F)	LAT (°F)	EWT (°F)	GPM	
A2053	ZONE 1: PHARMACISTS' WORK AREA	RETURN	AFCV-2081-A2053-R	TBD	ACV108MHASOEODP	50	400	200	200					1
A2053	ZONE 1: PHARMACISTS' WORK AREA	SUPPLY	AFCV-2081-A2053-S	TBD	ACV108MHAIOECDP	50	400	200	200	55	95	180	1.0	1
A2054	ZONE 2: HD STORAGE	EXHAUST	AFCV-2082-A2054-E	TBD	ACV108MHASOEODP	50	400	280	280					1
A2054	ZONE 2: HD STORAGE	SUPPLY	AFCV-2082-A2054-S	TBD	ACV108MHAIOECDP	50	400	180	180	55	95	180	0.8	1
A2055	ZONE 3: ANTE ROOM	RETURN	AFCV-2082-A2055-E	TBD	ACV114MHASOEODP	200	2500	1000	1000					1
A2055	ZONE 3: ANTE ROOM	SUPPLY	AFCV-2082-A2055-S	TBD	ACV114MHAIOECDP	200	2500	1280	1280	55	95	180	3.2	1
A2056	ZONE 4: NON-HD BUFFER ROOM	RETURN	AFCV-2081-A2056-R	TBD	ACV110MHASOEODP	40	700	200	200					1
A2056	ZONE 4: NON-HD BUFFER ROOM	SUPPLY	AFCV-2082-A2056-S	TBD	ACV110MHAIOECDP	40	700	330	330	55	95	180	1.1	1
A2057	ZONE 5: HD BUFFER ROOM	EXHAUST	AFCV-2082-A2057-E	TBD	AVV114MHASOEODP	200	2500	600	1200					1
A2057	ZONE 5: HD BUFFER ROOM	SUPPLY	AFCV-2082-A2057-S	TBD	ACV114MHAIOECBV	200	2500	1000	1000	55	95	180	3.0	1
A2057	ZONE 5: HD BUFFER ROOM	EXHAUST	AFCV-BSC-1	TBD	AVV110LHH*SOEOBF	40	700	0	305					1,2
A2057	ZONE 5: HD BUFFER ROOM	EXHAUST	AFCV-BSC-2	TBD	AVV110LHH*SOEOBF	40	700	0	305					1,2

1. PROJECT 553-21-100: SATELLITE PHARMACYSIEMENS VENTURI AIRVALVE MODEL NO.
2. STAINLESS STEEL PREFERRED. *STAINLESS STEEL VENTURI VALVE SPECIFIED. THE "H" HERESITE COATED SHALL BE ACCEPTABLE PER THE VA APPROVAL AND DIRECTION.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	FAN			ELECTRICAL						NOTES
			AIRFLOW (CFM)	ESP (IN-WG)	MOTOR SPEED (RPM)	HP	VOLTAGE	CYCLE (HZ)	PHASE	MCA (A)	MOP	
EF-2082	GREENHECK	SQ-12-VG	1970	1.00	2253	3/4	115	60	1	12.5	15	3,4
EF-BSC-1	GREENHECK	VEKTOR-H-12	610	3.00	3142	1 1/2	460	60	3	3	15	2,5
EF-BSC-2	GREENHECK	VEKTOR-H-12	610	3.00	3142	1 1/2	460	60	3	3	15	1,2,5

1. REDUNDANT FAN.
2. TOTAL BSC EXHAUST AIR SHALL BE 610 CFM (NORMAL MODE OF OPERATION) WHEN BOTH CLASS II TYPE A2 BSCs ARE IN SERVICE OR 305 CFM WHEN ONLY ONE BSC IS IN SERVICE; OR WHEN NON OF THE BSCs ARE IN SERVICE, RESPECTIVELY. EACH BSC REQUIRES BEING CONSTANTLY EXHASUTED AT 278 TO 308 CFM (GERMFREE: BBF-ASSRX) THROUGH THIER RESPECTIVE GERMFREE THIMBLE CANOPY CONNECTION..
3. INTERLOCK WITH EF-2082 OPERATION.
4. PROVIDE MOTORIZED DAMPER POWERED BY FAN CIRCUIT.
5. BOTH EF-BSC-1&2 SHALL BE EQUIPPED WITH VFDS (VARIBLE FREQUENCY DRIVE).

AIR DEVICE SCHEDULE (SUPPLY)

MARK	MANUFACTURER	MODEL	TYPE	AIR FLOW		MAX APD	MOUNTING	PANEL/FRAME SIZE	NECK SIZE	NC	DAMPER	FINISH	MATERIAL	AEROSOL TEST SYSTEM	INSULATION	REMARKS
				MIN	MAX											
D-1	PRICE INDUSTRIES	SCDA	PLAQUE FACE	80 CFM	380 CFM	0.10 in-wg	LAY-IN	12"x12" or 24"x24"	6"-10"	18	NONE	WHITE	STEEL	NO	NO	1-7, 8, 13
D-2	PRICE INDUSTRIES	SCDA	PLAQUE FACE	300 CFM	600 CFM	0.10 in-wg	LAY-IN	24"x24"	10"	23	NONE	WHITE	STEEL	NO	NO	1-7, 8, 13
HD-1	PRICE INDUSTRIES	LFDCSS	LAMINAR FLOW W/ HEPA FILTER	200 CFM	700 CFM		LAY-IN	24" X 48"	12"		YES		STAINLESS STEEL	YES	YES	1-7
HD-2	PRICE INDUSTRIES	LFDCSS	LAMINAR FLOW W/ HEPA FILTER	100 CFM	250 CFM		LAY-IN	24"x24"	10"		YES		STAINLESS STEEL	YES	YES	1-7
L-1	PRICE INDUSTRIES	JS	LINEAR	120 CFM	200 CFM	0.13 in-wg	LAY-IN/SURFACE	1" SLOT - 4' LONG	8"	23	NONE	WHITE	ALUMINUM	NO	YES	1-7
L-2	PRICE INDUSTRIES	JS	LINEAR	210 CFM	320 CFM	0.13 in-wg	LAY-IN/SURFACE	1" SLOT - 4' LONG	10"	30	NONE	WHITE	ALUMINUM	NO	YES	1-7
L-3	PRICE INDUSTRIES	LFG CORE25C	LINEAR	0 CFM	455 CFM	0.13 in-wg	LAY-IN/SURFACE	4"x36"	--	23	NONE	WHITE	ALUMINUM	NO	NO	1-7

AIR DEVICE SCHEDULE (RETURN)

MARK	MANUFACTURER	MODEL	TYPE	AIR FLOW		MAX APD	MOUNTING	PANEL/FRAME SIZE	NECK SIZE	NC	DAMPER	FINISH	MATERIAL	AEROSOL TEST SYSTEM	INSULATION	REMARKS
				MIN	MAX											
R-1	PRICE INDUSTRIES	<varies>	1/2"x1/2" GRID	0 CFM	180 CFM	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	1-7, 13
R-2	PRICE INDUSTRIES	80	1/2" x 1/2" GRID	185 CFM	700 CFM	0.10 in-wg	LAY-IN	24"x24"	12"x12"	20	NONE	WHITE	STEEL	NO	NO	1-7, 13
RG-2	PRICE INDUSTRIES	730FF	12"x12" EXHAUST GRILLE	0 CFM	455 CFM		WALL-MOUNTED	12"x12"	STANDARD	24	NONE		STAINLESS STEEL	NO	NO	1-7, 9, 11, 14

AIR DEVICE SCHEDULE (EXHAUST)

MARK	MANUFACTURER	MODEL	TYPE	AIR FLOW		MAX APD	MOUNTING	PANEL/FRAME SIZE	NECK SIZE	NC	DAMPER	FINISH	MATERIAL	AEROSOL TEST SYSTEM	INSULATION	REMARKS
				MIN	MAX											
E-1	PRICE INDUSTRIES	80	1/2" x 1/2" GRID	0 CFM	600 CFM	0.08 in-wg	SURFACE	10"x10"	10"x10"	17	NONE	WHITE	STEEL	NO	NO	1-7
E-2	PRICE INDUSTRIES	80	1/2" x 1/2" GRID	0 CFM	1400 CFM	0.08 in-wg	LAY-IN	24"x24"	18"x18"	15	NONE	WHITE	STEEL	NO	NO	1-7
EG-1	PRICE INDUSTRIES			447 CFM	2086 CFM				10X10							
EG-2	PRICE INDUSTRIES	730FF	12"x12" EXHAUST GRILLE	0 CFM	455 CFM		WALL-MOUNTED	12"x12"	STANDARD	24	NONE		STAINLESS STEEL	NO	NO	1-7, 9, 11, 14
EG-3	PRICE INDUSTRIES	730FF	18"x12" EXHAUST GRILLE	0 CFM	670 CFM		WALL-MOUNTED	18"x12"	STANDARD	<27	NONE		STAINLESS STEEL	NO	NO	1-7, 9, 11, 12, 14

AIR DEVICE GENERAL NOTES
1. ALL DIFFUSERS, REGISTERS, AND GRILLES TO HAVE REMOVABLE CENTERS TO ALLOW ACCESS FOR CLEANING.
2. PROVIDE ALL SPECIALTIES, FRAMES, AND BORDERS REQUIRED FOR INSTALLATION IN CEILING TYPE INDICATED IN ARCHITECTURAL DOCUMENTS.
3. PROVIDE DUCT-MOUNTED, ROUND OR RECTANGULAR, BALANCING DAMPER FOR EACH DUCTED SUPPLY, RETURN, OR EXHAUST AIR DEVICE.
4. DO NOT PROVIDE BALANCING DAMPER INTEGRAL WITH AIR DEVICE UNLESS SPECIFICALLY INDICATED WITH THE AIR DEVICE.
5. FOR AIR DEVICES WITH ROUND CONNECTIONS, PROVIDE WRAPPED CONICAL SPIN-IN FITTING WITH BALANCING DAMPER AT MAIN DUCT.
6. PROVIDE BLACK COLORED INSULATED PLENUMS FOR ALL AIR DIFFUSERS AND GRILLES.
7. PROVIDE PROPER SUPPORT FROM THE STRUCTURE.
8. ADJUSTABLE PATTERN CONTROLLERS.
9. HOSPITAL GRADE LOUVERED EXHAUST GRILLE.
10. OBD AT EACH REFRIGERATOR COMPRESSOR AND CONDENSATE TRAY LEVEL.
11. 3/4 IN BLADE SPACING.
12. INSTALL SUCH THAT LONG DIMENSION BE VERTICAL, LOUVERS PARALLEL TO SHORT DIMENSION.
13. SELECT BORDER TO MATCH ROOM FINISH SCHEDULE.
14. ALL 730FF LOUVERS: SS WITH FACE FILTER .

AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	AREA AND/OR BUILDING SERVED	AIRFLOW TYPE	SUPPLY PRESENT CFM	SUPPLY FUTURE CFM	EXHAUST PRESENT CFM	EXHAUST FUTURE CFM	RETURN CFM	SUPPLY FAN MARK	RETURN/EXHAUST FAN MARK	PREFILTER MARK	AFTER FILTER MARK	PREHEAT COIL MARK	COOLING COIL MARK	HUMIDIFIER MARK	REMARKS
AHU-2081	MECH RM A2032	2ND FLOOR - ZONE 1	VAV	17590		6100		11490	SF-2081	RF-2081	PF-2081	AF-2081	PH-2081	CC-2081	SH-2081	-
AHU-2082	MECH RM A2032	2ND FLOOR USP PHARMACY	VAV	2845	3270	1970	3000	400	SF-2082	EF-2082	PF-2082	AF-2082	PH-2082	CC-2082	SH-2082	1,2

1. AHU - 2082 IS A 100% OUTSIDE AIR UNIT AND IS INTERLOCKED WITH EF-2082. HOWEVER, IN THE HD BUFFER ROOM A2057, 610 CFM IS EXHAUSTED THROUGH EF-BSC-1/1 (N+1); THE NON - HD BUFFER ROOM A2056 RETURNS 300 CFM (ADJ) TO RF2081.
2. AHU - 2082 HAS EXTRA CAPACITY FOR FUTURE APPLICATIONS/USE..

SUPPLY FAN SCHEDULE

MARK	LOCATION	AREA AND/OR BUILDING	SYSTEM AND/OR SERVICE	AIRFLOW		FAN								MOTOR ELECTRICAL					CONTROL TYPE	REMARKS
				PRESENT	FUTURE	TYPE	TSP	WHEEL	CLASS	MANUFACTURER	MODEL	SIZE	DRIVE	MAX. RPM	POWER BHP	HP	PHASE	VOLTS	SPEED CONTROL	
SF-2081	MECH RM A2032	2ND FLOOR - ZONE 1	AHU-2081	17590 CFM	-	PLUG	5.44 in-wg	SWSI	II	EBM PABST	RADIPAC	450	DIRECT	2440	23.90	25.00	3	460 V	ECM	SHEET M-801	1
SF-2082	MECH RM A2032	2ND FLOOR USP PHARMACY	AHU-2082	2845 CFM	3270	PLUG	4.38 in-wg	SWSI	II	EBM PABST	RADIPAC	450	DIRECT	2440	4.98	12.00	3	460 V	ECM	SHEET M-802	2

NOTES:
1. FAN CONSISTS OF FOUR(4) PLUG FANS. MOTOR ELECTRICAL DATA IS FOR ALL FOUR FANS COMBINED
2. FAN CONSISTS OF TWO(2) PLUG FANS. MOTOR ELECTRICAL DATA IS FOR ALL TWO FANS COMBINED

STEAM HEATING COIL SCHEDULE

MARK	LOCATION	AREA AND/OR BUILDING	SYSTEM AND/OR SERVICE	AIR FLOW	MAX FACE VELOCITY	APD	TEMPERATURES		TOTAL MIN CAPACITY	STEAM			REMARKS
							EAT	LAT		LBS / HR	PRESSENT VALVE	PRESS ENT HEATER	
PH-2081	MECH RM A2032	2ND FLOOR - ZONE 1	AHU-2081	17590 CFM	395 FPM	0.30 in-wg	40 °F	90 °F	960000.0 Btu/h	972	30.00 psi	8.00 psi	

CHILLED WATER COIL SCHEDULE

MARK	LOCATION	AREA AND/OR BUILDING SERVED	SYSTEM AND/OR SERVICE	AIR FLOW	MAX FACE VELOCITY	APD	EAT		LAT		TOTAL CAPACITY	SENSIBLE CAPACITY	CHILLED WATER				REMARKS
							Db	Wb	Db	Wb			GPM	EWT	LWT	WPD	
CC-2081	MECH RM A2032	2ND FLOOR - ZONE 1	AHU-2081	17590 CFM	400 FPM	0.72 in-wg	79.8 °F	66.2 °F	51.0 °F	50.5 °F	815000.0 Btu/h	563000.0 Btu/h	135 GPM	44 °F	56 °F	12.39 in-wg	
CC-2082	MECH RM A2032	2ND FLOOR USP PHARMACY	AHU-2082	3270 CFM	230 FPM	0.26 in-wg	95.0 °F	78.0 °F	51.5 °F	50.9 °F	303000.0 Btu/h	161000.0 Btu/h	50 GPM	44 °F	56 °F	9.50 in-wg	1

NOTES:
1. SECTION INCLUDES VMAX UV DISINFECTION, 156 WATTS, 1.3 AMPS AND 120/1/60.

FILTER SCHEDULE

MARK	MANUFACTURER	AIRFLOW (CFM)	PRE-FILTER								PRIMARY FILTER								NOTES
			TYPE	EFFICIENCY	SIZE 1 QTY.	SIZE 1 DIMENSIONS	SIZE 2 QTY.	SIZE 2 DIMENSIONS	FACE AREA (SQFT)	FACE VELOCITY (FPM)	APD (IN-WG)	TYPE	EFFICIENCY	SIZE 1 QTY.	SIZE 1 SIZE	SIZE 2 QTY.	SIZE 2 DIMENSIONS	FACE AREA (SQFT)	FACE VELOCITY (FPM)	APD (IN-WG)	
AHU-2081	CAMFIL	17590	MINI PLEAT	MERV 11	9	24"x24"	3	24"x12"	42	419	0.38	HEPA	MERV 17	9	24"x24"	3	24"x12"	40	443	1.22	
AHU-2082	CAMFIL	3270	MINI PLEAT	MERV 11	6	16"x20"	-	-	13	247	0.38	HEPA	MERV 14 OR 16A	6	16"x20"	-	-	13	247	1.22	1

1. PRIMARY/FINAL FILTER (FF) MERV 14 FOR NORMAL MODE OF OPERATION; MERV 16A FOR EMERGENCY MODE.

STEAM HUMIDIFIER SCHEDULE

MARK	LOCATION	AREA AND/OR BUILDING	SYSTEM AND/OR SERVICE	TYPE	TOTAL AIRFLOW	OUTSIDE AIRFLOW	EAT		LEAVING AIR % RH	SOURCE	STEAM		LBS / HR	CONTROL TYPE	REMARKS
							Db	%RH			PRESSENT VALVE	PRESS ENT HEATER			
SH-2081	MECH RM A2032	2ND FLOOR - ZONE 1	AHU-2081	UNIT	17590	6100	70 °F	28	40	CENTRAL	30.00 psi	24.00 psi	147	SHEET M-801	
SH-2082	MECH RM A2032	2ND FLOOR USP PHARMACY	AHU-2082	UNIT	3270	3270	68 °F	8	40	CENTRAL	30.00 psi	24.00 psi	89	SHEET M-801	

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE

MARK	LOCATION	SERVING ROOM NUMBER	SYSTEM AIR HANDLING	MIN. INLET SIZE	AIRFLOW		MAX. APD (IN WG)	CONTROL TYPE	HEATING CFM	REHEAT COIL					PERIMETER SUPPLEMENTAL HEAT LINK	REMARKS
					MAX. CFM	MIN. CFM				EAT	LAT	EWT	GPM	CAPACITY		
TU-2081-1	2ND FLOOR INTERSITIAL SPACE	ZN5 CORR	AHU-2081	8"	400	120	0.4	VAV	200	55 °F	95 °F	180 °F	1.0	8800.0 Btu/h	NO	
TU-2081-2	2ND FLOOR INTERSITIAL SPACE	ZN5 WATING	AHU-2081	10"	1150	1150	0.4	CV	1150	55 °F	95 °F	180 °F	304.0	50600.0 Btu/h	NO	
TU-2081-3	2ND FLOOR INTERSITIAL SPACE	ZN5 CORR	AHU-2081	10"	1000	300	0.4	VAV	500	55 °F	95 °F	180 °F	2.2	22000.0 Btu/h	NO	
TU-2081-4	2ND FLOOR INTERSITIAL SPACE	ZN5 RESTROOMS	AHU-2081	6"	140	140	0.4	CV	140	55 °F	95 °F	180 °F	0.7	6200.0 Btu/h	NO	
TU-2081-5	2ND FLOOR INTERSITIAL SPACE	A2005/2010	AHU-2081	6"	150	75	0.4	VAV	150	55 °F	95 °F	180 °F	0.7	6600.0 Btu/h	NO	
TU-2081-6	2ND FLOOR INTERSITIAL SPACE	A2007	AHU-2081	6"	100	50	0.4	VAV	100	55 °F	95 °F	180 °F	0.5	4400.0 Btu/h	NO	
TU-2081-7	2ND FLOOR INTERSITIAL SPACE	A2011	AHU-2081	12"	1200	1200	0.4	CV	1200	55 °F	95 °F	180 °F	3.5	6600.0 Btu/h	NO	
TU-2081-8	2ND FLOOR INTERSITIAL SPACE	A2667	AHU-2081	6"	100	100	0.4	CV	100	55 °F	95 °F	180 °F	0.5	4400.0 Btu/h	NO	
TU-2081-9	2ND FLOOR INTERSITIAL SPACE	A2016	AHU-2081	6"	190	190	0.4	CV	190	55 °F	95 °F	180 °F	0.8	52800.0 Btu/h	NO	
TU-2081-10	2ND FLOOR INTERSITIAL SPACE	A2017	AHU-2081	14"	1700	1700	0.4	CV	1700	55 °F	95 °F	180 °F	5.0	4400.0 Btu/h	NO	
TU-2081-11	2ND FLOOR INTERSITIAL SPACE	A2109	AHU-2081	6"	100	50	0.4	VAV	100	55 °F	95 °F	180 °F	0.5	8400.0 Btu/h	NO	
TU-2081-12	2ND FLOOR INTERSITIAL SPACE	A2018	AHU-2081	10"	700	80	0.4	VAV	350	55 °F	95 °F	180 °F	1.5	74500.0 Btu/h	YES	
TU-2081-13	2ND FLOOR INTERSITIAL SPACE	A2058/2060	AHU-2081	8"	500	75	0.4	VAV	250	55 °F	95 °F	180 °F	1.1	15400.0 Btu/h	YES	
TU-2081-14	2ND FLOOR INTERSITIAL SPACE	A2059/2061	AHU-2081	6"	200	60	0.4	VAV	200	55 °F	95 °F	180 °F	1.0	11000.0 Btu/h	NO	
TU-2081-15	2ND FLOOR INTERSITIAL SPACE	A2014	AHU-2081	8"	420	120	0.4	VAV	250	55 °F	95 °F	180 °F	1.1	8800.0 Btu/h	NO	
TU-2081-16	2ND FLOOR INTERSITIAL SPACE	A2014/2015	AHU-2081	6"	280	85	0.4	VAV	200	55 °F	95 °F	180 °F	1.0	11000.0 Btu/h	NO	
TU-2081-17	2ND FLOOR INTERSITIAL SPACE	A2020/2022	AHU-2081	8"	600	105	0.4	VAV	300	55 °F	95 °F	180 °F	1.3	8800.0 Btu/h	YES	
TU-2081-18	2ND FLOOR INTERSITIAL SPACE	A2068/2076/2072/2074/2076	AHU-2081	10"	1120	1120	0.4	CV	1120	55 °F	95 °F	180 °F	3.3	13200.0 Btu/h	YES	
TU-2081-19	2ND FLOOR INTERSITIAL SPACE	A2064	AHU-2081	6"	200	200	0.4	CV	200	55 °F	95 °F	180 °F	1.0	49300.0 Btu/h	NO	
TU-2081-20	2ND FLOOR INTERSITIAL SPACE	A2065	AHU-2081	6"	200	200	0.4	CV	200	55 °F	95 °F	180 °F	1.0	8800.0 Btu/h	NO	
TU-2081-21	2ND FLOOR INTERSITIAL SPACE	CA208	AHU-2081	6"	190	190	0.4	CV	190	55 °F	95 °F	180 °F	0.8	8400.0 Btu/h	NO	
TU-2081-22	2ND FLOOR INTERSITIAL SPACE	A2066	AHU-2081	6"	200	200	0.4	CV	200	55 °F	95 °F	180 °F	1.0	8800.0 Btu/h	NO	
TU-2081-23	2ND FLOOR INTERSITIAL SPACE	A2049/2075	AHU-2081	8"	580	195	0.4	VAV	300	55 °F	95 °F	180 °F	1.3	13200.0 Btu/h	NO	
TU-2081-25	2ND FLOOR INTERSITIAL SPACE	A2029/2033/2035	AHU-2081	8"	330	110	0.4	VAV	200	55 °F	95 °F	180 °F	1.0	8800.0 Btu/h	NO	
TU-2081-26	2ND FLOOR INTERSITIAL SPACE	A2026/2028/2084/2030/2034	AHU-2081	10"	1100	145	0.4	VAV	600	55 °F	95 °F	180 °F	2.6	26400.0 Btu/h	YES	
TU-2081-27	2ND FLOOR INTERSITIAL SPACE	A2078/2080/2084/2086	AHU-2081	10"	1120	1120	0.4	CV	1120	55 °F	95 °F	180 °F	3.3	49300.0 Btu/h	YES	
TU-2081-28	2ND FLOOR INTERSITIAL SPACE	A2081/2083/CA210	AHU-2081	8"	480	480	0.4	CV	480	55 °F	95 °F	180 °F	2.1	21100.0 Btu/h	NO	
TU-2081-29	2ND FLOOR INTERSITIAL SPACE	A2047	AHU-2081	6"	210	210	0.4	CV	210	55 °F	95 °F	180 °F	1.0	9200.0 Btu/h	NO	
TU-2081-30	2ND FLOOR INTERSITIAL SPACE	A2052	AHU-2081	6"	140	140	0.4	CV	140	55 °F	95 °F	180 °F	0.7	9200.0 Btu/h	NO	
TU-2081-31	2ND FLOOR INTERSITIAL SPACE	A2046/2050	AHU-2081	6"	280	280	0.4	CV	280	55 °F	95 °F	180 °F	1.2	6200.0 Btu/h	NO	
TU-2081-32	2ND FLOOR INTERSITIAL SPACE	CA212	AHU-2081	6"	260	260	0.4	CV	260	55 °F	95 °F	180 °F	1.1	12300.0 Btu/h	NO	
TU-2081-33	2ND FLOOR INTERSITIAL SPACE	CA213	AHU-2081	6"	300	40	0.4	VAV	200	55 °F	95 °F	180 °F	1.0	8800.0 Btu/h	NO	
TU-2081-34	2ND FLOOR INTERSITIAL SPACE	A2023/2025	AHU-2081	6"	250	250	0.4	CV	250	55 °F	95 °F	180 °F	1.1	11000.0 Btu/h	NO	
TU-2081-35	2ND FLOOR INTERSITIAL SPACE	A2037/2039/2041/2043	AHU-2081	8"	400	120	0.4	VAV	200	55 °F	95 °F	180 °F	1.0	8800.0 Btu/h	NO	
TU-2081-36	2ND FLOOR INTERSITIAL SPACE	CA213	AHU-2081	6"	250	80	0.4	VAV	150	55 °F	95 °F	180 °F	0.7	6600.0 Btu/h	NO	
TU-2081-37	2ND FLOOR INTERSITIAL SPACE	A2042	AHU-2081	6"	300	300	0.4	CV	300	55 °F	95 °F	180 °F	1.3	13200.0 Btu/h	NO	
TU-2081-38	2ND FLOOR INTERSITIAL SPACE	A2036/2038/2040	AHU-2081	10"	825	105	0.4	VAV	450	55 °F	95 °F	180 °F	2.0	19800.0 Btu/h	YES	

FINNED TUBE RADIATOR SCHEDULE

MARK	HYDRONIC HEATING								PHYSICAL PROPERTIES									NOTES
	CAPACITY (BTU)	CAPACITY (BTU/FT)	FLOW (GPM)	WPD (FT-HD)	EWT (°F)	LWT (°F)	CONTROL VALVE	FLUID	PIPE SIZE (IN)	ROWS	FIN SIZE (IN)	FINS/FOOT	ENCLOSURE HEIGHT (IN)	INSTALLED HEIGHT (IN)	ENCLOSURE DEPTH (IN)	COVER LENGTH (IN)	ELEMENT LENGTH (IN)	
FT-1	2100	530	0.5	0.012	160	150	DDC	WATER	3/4"	1	3.25	32	18"	22"	8.5"	WALL TO WALL	48"	2,3
FT-2	2650	530	0.6	0.016	180	160	DDC	WATER	3/4"	1	3.25	32	18"	22"	8.5"	WALL TO WALL	60"	2,3
FT-3	1590	530	0.5	0.012	160	150	DDC	WATER	3/4"	1	3.25	32	-	-	-	WALL TO WALL	36"	1

1. FIELD FABRICATED ENCLOSURE BY OTHERS.
2. INSTALL BOTTOM OF ENCLOSURE AT 4" AFF.
3. SLOPED TOP ENCLOSURE.

Revisions:	Date:
100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
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ROOM AIR BALANCE SCHEDULE

ROOM NUMBER	ROOM NAME	AIR HANDLING UNIT NO	TERMINAL UNIT	INDIVIDUAL ROOM TEMP CONTROL	SUPPLY				RETURN OR EXHAUST					ROOM AIR FLOW		ROOM AIR BALANCE	NET INFILTRATION	NET EXFILTRATION	REMARKS
					AIRFLOW	# OF AIR DEVICES SUPPLY	AIR DEVICE MARK	FAN MARK	RETURN, OR EXHAUST	AIRFLOW	# OF AIR DEVICES RETURN	AIR DEVICE MARK	FAN MARK	CV	VAV				
A2005	OFFICE	AHU-2081	TU-2081-5	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2007	OFFICE	AHU-2081	TU-2081-6	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2010	PATIENT EDUCATION (MIND BODY SOUL)	AHU-2081	TU-2081-5	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2011	INFUSION CLINIC LOBBY	AHU-2081	TU-2081-7	YES	380 CFM	2	D-1	SF-2081	E	380 CFM	1	E-2	EF-120	X		(-)	120 CFM	0 CFM	
A2012	EXAM CLINIC CHECK-IN	AHU-2081	TU-2081-15	YES	420 CFM	2	D-1	SF-2081	R	420 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2014	OFFICE	AHU-2081	TU-2081-16	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2015	WORK ROOM	AHU-2081	TU-2081-16	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2016	HAC	AHU-2081	TU-2081-8	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-1	RF-2081	X		0	0 CFM	0 CFM	
A2017	EXAM CLINIC WAITING	AHU-2081	TU-2081-10	YES	1700 CFM	6	D-1	SF-2081	E	1900 CFM	2	E-1	EF-120	X		(-)	200 CFM	0 CFM	
A2017A	TOILET	AHU-2071	TU-2081-10	NO	0 CFM	0		SF-2071	E	100 CFM	1	E-1	EF-121	X		(--)	100 CFM	0 CFM	
A2018	GROUP ROOM	AHU-2081	TU-2081-12	YES	700 CFM	3	L-1, D-1	SF-2081	R	700 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2020	SHARED OFFICE	AHU-2081	TU-2081-13	YES	250 CFM	1	L-2	SF-2081	R	250 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2022	SHARED OFFICE	AHU-2081	TU-2081-13	YES	250 CFM	1	L-2	SF-2081	R	250 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2023	OFFICE - RN CARE COORDINATOR	AHU-2081	TU-2081-34	YES	100 CFM	1	D-1	SF-2081	R	100 CFM		R-1	RF-2081		X	0	0 CFM	0 CFM	
A2024	WEIGHT	AHU-2081	TU-2081-2	YES	1150 CFM	4	EXISTING	SF-2081	R	1250 CFM	4	EXISTING	EF-120	X		(-)	100 CFM	0 CFM	
A2025	OFFICE - RN CARE COORDINATOR	AHU-2081	TU-2081-34	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2026	ANTI-COAG	AHU-2081	TU-2081-26	YES	275 CFM	2	L-1, D-1	SF-2081	R	275 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2028	EXAM	AHU-2081	TU-2081-37	YES	275 CFM	2	L-1, D-1	SF-2081	R	275 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2029	EXAM	AHU-2081	TU-2081-26	YES	275 CFM	2	L-1, D-1	SF-2081	R	275 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2030	EXAM	AHU-2081	TU-2081-35	YES	110 CFM	1	D-1	SF-2081	R	110 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2033	EXAM	AHU-2081	TU-2081-25	YES	110 CFM	1	D-1	SF-2081	R	110 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2034	EXAM	AHU-2081	TU-2081-37	YES	275 CFM	2	L-1, D-1	SF-2081	R	275 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2035	EXAM	AHU-2081	TU-2081-26	YES	275 CFM	2	L-1, D-1	SF-2081	R	275 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2036	EXAM	AHU-2081	TU-2081-35	YES	110 CFM	1	D-1	SF-2081	R	110 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2037	EXAM	AHU-2081	TU-2081-25	YES	110 CFM	1	D-1	SF-2081	R	110 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2038	EXAM	AHU-2081	TU-2081-37	YES	275 CFM	2	L-1, D-1	SF-2081	R	275 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2039	EXAM	AHU-2081	TU-2081-26	YES	275 CFM	2	L-1, D-1	SF-2081	R	275 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2040	EXAM	AHU-2081	TU-2081-35	YES	110 CFM	1	D-1	SF-2081	R	110 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2042	WORK ROOM	AHU-2081	TU-2081-23	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2043	EQUIPMENT STORAGE	AHU-2081	TU-2081-35	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2045	STAFF TOILET	AHU-2081	TU-2081-29	NO	0 CFM	0		SF-2081	E	100 CFM	1	E-1	EF-121	X		(--)	100 CFM	0 CFM	
A2046	MED ROOM	AHU-2081	TU-2081-31	NO	80 CFM	1	D-1	SF-2081	R	70 CFM	1	R-1	RF-2081	X		(+)	0 CFM	10 CFM	
A2047	BREAK ROOM	AHU-2081	TU-2081-29	YES	110 CFM	1	D-1	SF-2081	E	125 CFM	1	E-1	EF-120	X		(-)	25 CFM	0 CFM	
A2047A	LOCKER ROOM	AHU-2081	TU-2081-29	NO	100 CFM	1	D-1	SF-2081	E	110 CFM	1	E-1	RF-2071	X		(-)	10 CFM	0 CFM	
A2048	CLEAN LINEN	AHU-2081	TU-2081-31	YES	100 CFM	1	D-1	SF-2081	R	80 CFM	1	R-1	RF-2081	X		(+)	0 CFM	20 CFM	
A2049	NUTRITION	AHU-2081	TU-2081-23	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2050	CLEAN UTILITY	AHU-2081	TU-2081-31	NO	100 CFM	1	D-1	SF-2081	R	80 CFM	1	R-1	RF-2081	X		(+)	0 CFM	20 CFM	
A2052	SOILED UTILITY	AHU-2081	TU-2081-30	NO	140 CFM	1	D-1	SF-2081	E	170 CFM	1	E-1	EF-120	X		(--)	30 CFM	0 CFM	
A2053	PHARMACIST WORK AREA	AHU-2081	AFCV-2081-A2053-S&R	YES	200 CFM	1	D-2	SF-2082	R	200 CFM	1	R-2	RF-2082	X	0	0	0 CFM	0 CFM	
A2054	HAZARDOUS DRUG STORAGE	AHU-2082	AFCV-2082-A2054-S&E	YES	180 CFM	1	D-2	SF-2082	E	280 CFM	1	E-1,EG-1	EF-2082	X		(-)	100 CFM	0 CFM	
A2055	ANTE ROOM	AHU-2082	AFCV-2082-A2055-S&E	YES	1280 CFM	4	HD-1	SF-2082	E	1000 CFM	6	EG-1(3),EG-3(2)	EF-2082	X		(+)	0 CFM	280 CFM	
A2056	STERILE NON-HAZARDOUS DRUG BUFFER ROOM	AHU-2082	AFCV-2082-A2056-S&R	YES	330 CFM	2	HD-1,HD-2	SF-2082	R	200 CFM	2	RG-2	RF-2082	X		(++)	0 CFM	130 CFM	
A2057	STERILE HAZARDOUS DRUG BUFFER ROOM	AHU-2082	AFCV-2082-A2057-S&E	YES	1000 CFM	4	HD-1	SF-2082	E	1910 CFM	6	EG-2(1), EG-3(3) AND BSC(2)	EF-BSC-1& 2	X		(--)	910 CFM	0 CFM	
A2058	SHARED OFFICE	AHU-2081	TU-2071-17	YES	300 CFM	2	L-1, D-1	SF-2081	R	300 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2059	OFFICE	AHU-2081	TU-2081-14	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2060	SHARED OFFICE	AHU-2081	TU-2071-17	YES	300 CFM	2	L-1, D-1	SF-2081	R	300 CFM	1	R-2	RF-2081		X	0	0 CFM	0 CFM	
A2061	OFFICE	AHU-2081	TU-2081-14	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2063	WEIGHT	AHU-2081	TU-2081-25	YES	110 CFM	1	D-1	SF-2081	R	110 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2064	INFUSION ROOM 1	AHU-2081	TU-2081-16	YES	200 CFM	1	D-1	SF-2081	E	220 CFM	1	E-1	EF-120	X		(-)	20 CFM	0 CFM	
A2065	INFUSION ROOM 2	AHU-2081	TU-2081-20	YES	200 CFM	1	D-1	SF-2081	E	220 CFM	1	E-1	EF-120	X		(-)	20 CFM	0 CFM	
A2066	INFUSION ROOM 3	AHU-2081	TU-2081-22	YES	200 CFM	1	D-1	SF-2081	E	220 CFM	1	E-1	EF-120	X		(-)	20 CFM	0 CFM	
A2067	ELECTRICAL	AHU-2081	TU-2081-9	NO	190 CFM	1	D-1	SF-2081	E	230 CFM	1	E-1	EF-120	X		(--)	40 CFM	0 CFM	
A2068	INFUSION BAY	AHU-2081	TU-2081-18	YES	250 CFM	1	L-2	SF-2081	E	275 CFM	1	E-1	EF-120	X		(-)	25 CFM	0 CFM	
A2069	PATIENT TOILET	AHU-2081	TU-2081-18	NO	0 CFM	0	-	SF-2081	E	100 CFM	1	E-1	EF-121	X		(--)	100 CFM	0 CFM	
A2070	INFUSION BAY	AHU-2081	TU-2081-18	YES	250 CFM	1	L-2	SF-2081	E	275 CFM	1	E-1	EF-120	X		(-)	25 CFM	0 CFM	
A2071	PATIENT TOILET	AHU-2081	TU-2081-18	NO	0 CFM	0	-	SF-2081	E	100 CFM	1	E-1	EF-121	X		(--)	100 CFM	0 CFM	
A2072	INFUSION BAY	AHU-2081	TU-2081-18	YES	250 CFM	1	L-2	SF-2081	E	275 CFM	1	E-1	EF-120	X		(-)	25 CFM	0 CFM	
A2074	INFUSION BAY	AHU-2081	TU-2081-18	YES	250 CFM	1	L-2	SF-2081	E	275 CFM	1	E-1	EF-120	X		(-)	25 CFM	0 CFM	
A2075	NURSE STATION	AHU-2081	TU-2081-38	YES	300 CFM	2	L-1, D-1	SF-2081	R	300 CFM		R-2	RF-2081		X	0	0 CFM	0 CFM	
A2076	INFUSION BAY	AHU-2081	TU-2081-18	YES	250 CFM	1	L-2	SF-2081	E	275 CFM	1	E-1	EF-120	X		(-)	25 CFM	0 CFM	
A2078	INFUSION BAY	AHU-2081	TU-2081-27	YES	250 CFM	1	L-2	SF-2081	E	275 CFM	1	E-1	EF-120	X		(-)	25 CFM	0 CFM	
A2080	INFUSION BAY	AHU-2081	TU-2081-27	YES	250 CFM	1	L-2	SF-2081	E	275 CFM	1	E-1	EF-120	X		(-)	25 CFM	0 CFM	
A2081	INFUSION BAY	AHU-2081	TU-2081-28	YES	160 CFM	1	D-1	SF-2081	E	180 CFM	1	E-1	EF-120	X		(-)	20 CFM	0 CFM	
A2082	INFUSION BAY	AHU-2081	TU-2081-27	YES	250 CFM	1	L-2	SF-2081	E	275 CFM	1	E-1	EF-120	X		(-)	25 CFM	0 CFM	
A2083	INFUSION BAY	AHU-2081	TU-2081-28	YES	160 CFM	1	D-1	SF-2081	E	180 CFM	1	E-1	EF-120	X		(-)	20 CFM	0 CFM	
A2084	INFUSION BAY	AHU-2081	TU-2081-27	YES	250 CFM	1	L-2	SF-2081	E	275 CFM	1	E-1	EF-120	X		(-)	25 CFM	0 CFM	
A2085	ALCOVE	AHU-2081	TU-2071-3	YES	1000 CFM	4	EXISTING	SF-2081	R	750 CFM	3	EXISTING	RF-2081	X		(+)	0 CFM	250 CFM	
A2086	INFUSION BAY	AHU-2081	TU-2081-27	YES	250 CFM	1	L-2	SF-2081	E	275 CFM	1	E-1	EF-120	X		(-)	25 CFM	0 CFM	
A2087	STRETCHER / WHEELCHAIR STORAGE	AHU-2081	TU-2081-28	NO	0 CFM	0		SF-2081	R	0 CFM			RF-2081	X		0	0 CFM	0 CFM	
A2108	SHARED OFFICE	AHU-2071	TU-2071-13	YES	100 CFM	1	D-1	SF-2071	R	100 CFM	1	R-1	RF-2071		X	0	0 CFM	0 CFM	
A2109	SHARED OFFICE	AHU-2081	TU-2081-11	YES	100 CFM	1	D-1	SF-2081	R	100 CFM	1	R-1	RF-2081		X	0	0 CFM	0 CFM	
A2110	WOMEN'S LOCKERS	AHU-2071	TU-2071-13	YES	150 CFM	1	D-1	SF-2071	E	170 CFM	1	E-1	?	X		(-)	20 CFM	0 CFM	
A2110A	WOMEN'S TOILET	AHU-2071	TU-2071-13	NO	0 CFM	0		SF-2071	E	100 CFM	1	E-1	?	X		(--)	100 CFM	0 CFM	
A2114	BREAK ROOM	AHU-2071	TU-2071-11	YES	800 CFM	2	D-1	SF-2071	E	900 CFM	1	E-1	EF-120	X		(-)	100 CFM	0 CFM	
CA207	CORRIDOR	AHU-2081	TU-2081-33	YES	600 CFM	4	D-1	SF-2081	R	460 CFM	2	R-2	RF-2081	X		(+)	0 CFM	50 CFM	
CA208	CORRIDOR	AHU-2081	TU-2081-21	YES	190 CFM	1	D-1	SF-2081	R	0 CFM	1	R-1	RF-2081	X		(+)	0 CFM	190 CFM	
CA209	CORRIDOR	AHU-2081	TU-2081-32	YES	130 CFM	1	D-1	SF-2081	R	80 CFM	1	R-1	RF-2081	X		(+)	0 CFM	50 CFM	
CA210	CORRIDOR	AHU-2081	TU-2081-32	YES	130 CFM	1	D-1	SF-2081	R	80 CFM	1	R-1	RF-2081	X		(+)	0 CFM	50 CFM	
CA211	CORRIDOR	AHU-2081	TU-2081-28	YES	160 CFM	1	D-1	SF-2081	R	140 CFM	1	R-1	RF-2081	X		(+)	0 CFM	20 CFM	
CA212	CORRIDOR	AHU-2081	TU-2081-23	YES	100 CFM	1	D-1	SF-2081	R	90 CFM	1	R-1	RF-2081	X		(+)	0 CFM	10 CFM	
CA213	CORRIDOR	AHU-2081	TU-2081-27	YES	240 CFM	2	D-1	SF-2081	R	215 CFM	1	R-1	RF-2081	X		(+)	0 CFM	25 CFM	
CA216	CORRIDOR	AHU-2081	TU-2071-1	YES	400 CFM	2	EXISTING	SF-2081	R	250 CFM	1	EXISTING	RF-2081	X		(+)	0 CFM	150 CFM	

Revisions:	Date:
100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023

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Drawing Title: MECHANICAL SCHEDULES
Phase: 100% BID DOCUMENTS
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Project Number: 553-21-100
Building Number:
Approved:
FULLY SPRINKLERED
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: JDL/AS
Drawn: REF
Drawing Number: M-602

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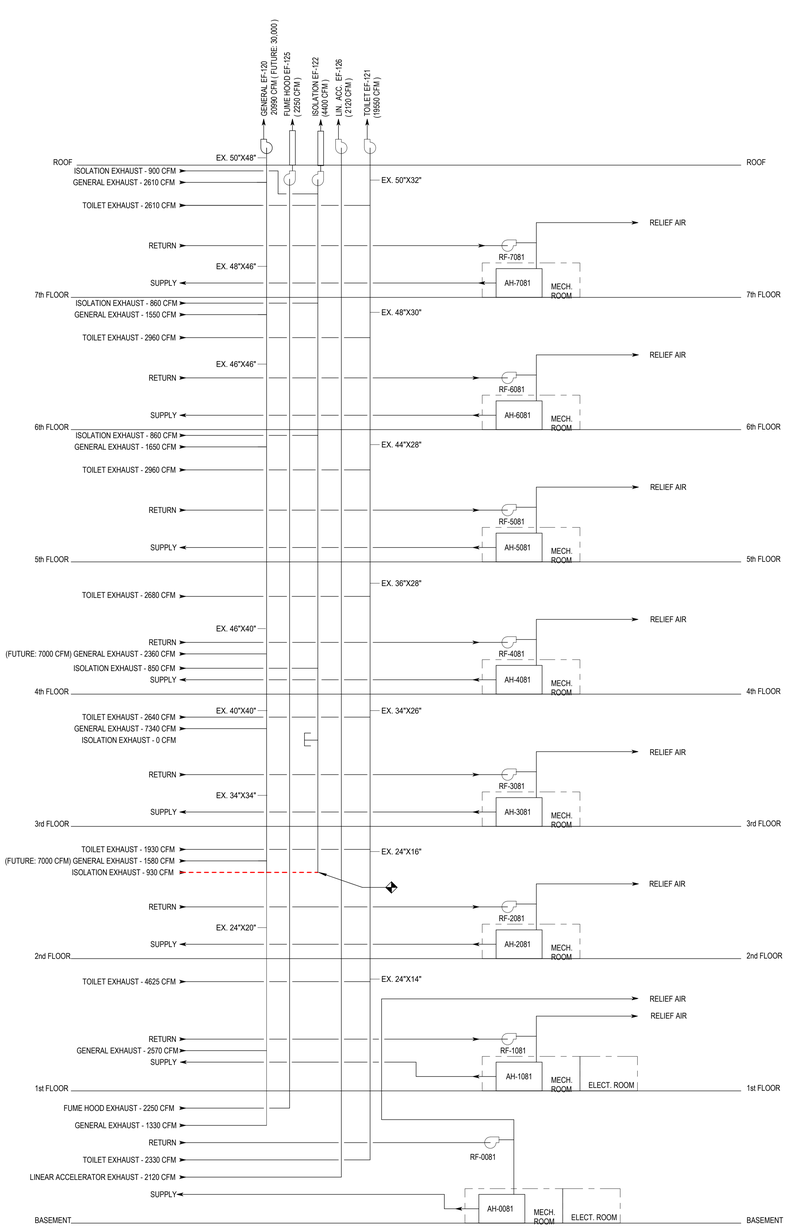
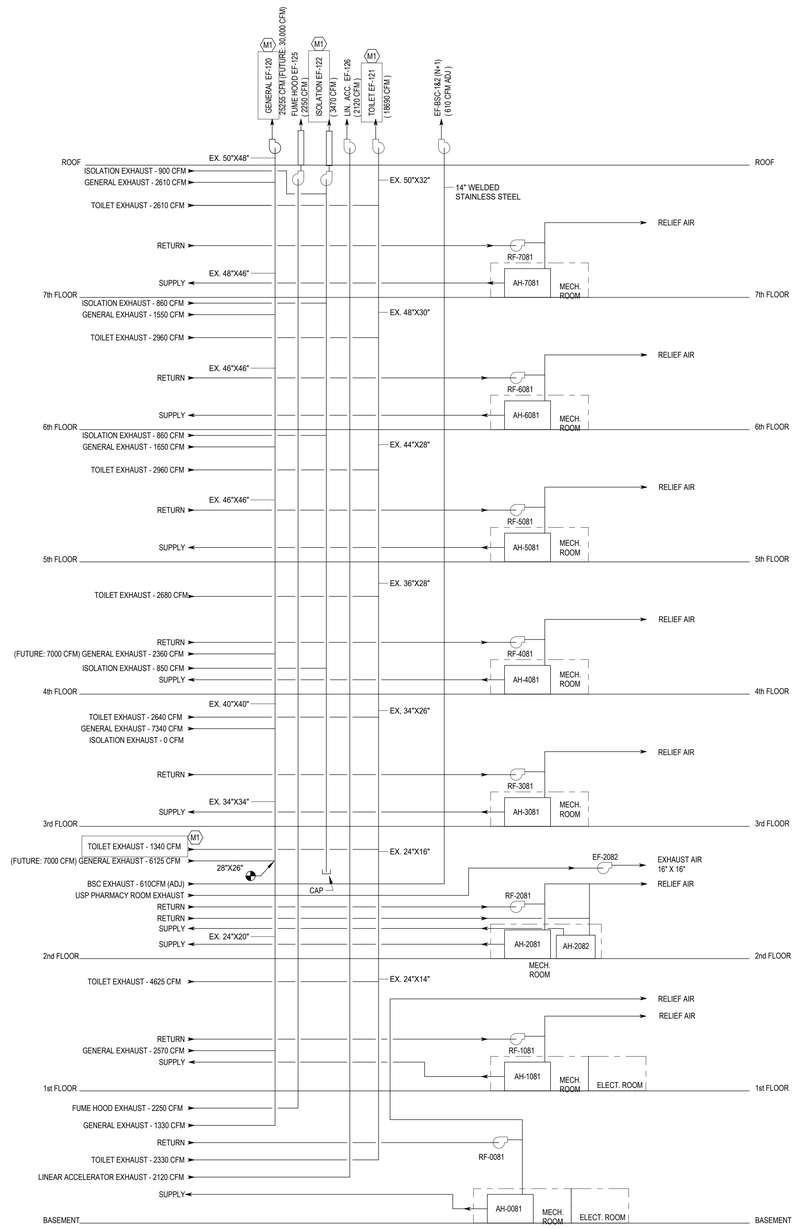


EXHAUST RISER DEMOLITION SCHEMATIC

NOT TO SCALE



EXHAUST RISER SCHEMATIC - NEW

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GENERAL NOTES:

1. ROUTE NEW DUCTWORK TO USE EXISTING OPENINGS IN THE INTERSTITIAL FLOOR WHERE FEASIBLE. PATCH OVERSIZED OPENINGS AND MAINTAIN TWO-HOUR FIRE RATING.
2. PATCH EXISTING MECHANICAL PENETRATIONS NOT BEING USED FOR NEW DUCTWORK. PROVIDE L4x4x5/16" ANGLE FRAMING FOR EXISTING DUCT OPENINGS IF FRAMING NOT ALREADY IN PLACE. INSTALL COMPOSITE METAL DECK TO MATCH EXISTING DEPTH (MINIMUM 20 GA.) AND TO SPAN SHORTEST DIRECTION (MAXIMUM 5'-0") WITH WWF 6x6 - W1.4xW1.4. PUDDLE WELD METAL DECK TO FRAMING. POUR LIGHTWEIGHT CONCRETE FLUSH WITH EXISTING FINISH FLOOR. FIELD VERIFY EXISTING CONDITIONS. TWO-HOUR SPRAYED-ON FIREPROOFING REQUIRED.
3. SAWCUT NEW OPENINGS IN INTERSTITIAL FLOOR WHERE REQUIRED FOR NEW DUCTWORK. PROVIDE L4x4x5/16" ANGLE FRAMING AROUND ALL FLOOR PENETRATIONS. SUPPORT AT NEAREST WALL OR FRAMING MEMBER. TWO-HOUR SPRAYED-ON FIREPROOFING REQUIRED. THE MAXIMUM OPENING SIZE WITHOUT FRAMING SHALL BE 8" SQUARE OR 8" DIAMETER.

LEGEND:

SYMBOL	DESCRIPTION
- - - - -	DEMOLISH
———	EXISTING TO REMAIN
———	NEW
▽	DUCT SIZE INCREASE

MECHANICAL DEMOLITION...

KEY VALUE	KEYNOTE TEXT
M1	REBALANCE TO FLOW RATE INDICATED.

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS - REVISED	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
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Office of Construction and Facilities Management

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Drawing Title: MECHANICAL DIAGRAMS & SCHEMATICS

Approved:

Phase: 100% BID DOCUMENTS

FULLY SPRINKLERED

Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC

Location: DETROIT, MI

Issue Date: 10-JAN-2025

Checked: JDL/AS

Drawn: REF

Project Number: 553-21-100

Building Number:

Drawing Number: M-701

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SEQUENCE OF OPERATION FOR VARIABLE AIR VOLUME AIR HANDLING UNIT WITH MINIMUM OUTSIDE AIR (AHU-2081)

1. GENERAL

1.1 UNIT IS NORMALLY STARTED AND STOPPED REMOTELY AT THE ECC. H-O-A SWITCH SHALL BE KEPT IN THE "AUTO" POSITION. "HAND" AND "OFF" POSITIONS SHALL BE USED ONLY FOR MAINTENANCE. WHEN THE UNIT IS "OFF" D-1, D-3, AND D-4 SHALL BE FULLY CLOSED. WHEN THE UNIT IS "ON" D-1, SD-1 AND SD-2 SHALL BE FULLY OPEN. D-2, D-3, AND D-4 SHALL MODULATE IN ACCORDANCE WITH THE FOLLOWING SEQUENCE:

2. TEMPERATURE CONTROL

2.1 SUPPLY AIR TEMPERATURE, SENSED BY DAT, SHALL BE MAINTAINED AT SETPOINT VIA DIGITAL CONTROL PANEL BY MODULATING V-1 OR D-2, D-3, AND D-4 OR V-2 IN SEQUENCE.

2.2 WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY OAT, IS ABOVE 75°F (ADJ) [23.8°C], THE DIGITAL CONTROL PANEL SHALL PREVENT THE MODULATION OF D-2 AND D-3 AND SHALL ASSUME THE MINIMUM OUTSIDE AIR POSITION (D-1 AND D-2 FULLY OPENED AND D-3 FULLY CLOSED). THE DIGITAL CONTROL PANEL SHALL MODULATE V-1 TO MAINTAIN THE SUPPLY AIR TEMPERATURE, SENSED BY DAT.

2.3 WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY OAT, IS BETWEEN 65°F [18.3°C] AND THE SUPPLY AIR TEMPERATURE SENSED BY DAT, DAMPER D-2 SHALL FULLY CLOSE AND D-1, D-3, AND D-4 SHALL BE FULLY OPEN (MAXIMUM OUTSIDE AIR POSITION). THE DIGITAL CONTROL PANEL SHALL MODULATE V-1 TO MAINTAIN THE SUPPLY AIR TEMPERATURE, SENSED BY DAT.

2.4 WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY OAT, IS BELOW THE SUPPLY AIR TEMPERATURE. SENSED BY DAT, DAMPERS D-4, D-2 AND D-3 SHALL MODULATE TO MAINTAIN THE SCHEDULED SUPPLY AIR TEMPERATURE. IF D-2 IS OPEN AND D-3 AND D-4 ARE CLOSED TO MINIMUM OUTSIDE AIR, V-2 SHALL MODULATE OPEN TO MAINTAIN THE SUPPLY AIR TEMPERATURE, SENSED BY DAT.

3. AIR FLOW CONTROL

3.1 THE SUPPLY AIR FLOW SHALL BE CONTROLLED BY THE DIGITAL CONTROL PANEL MODULATING THE SUPPLY FAN VARIABLE SPEED MOTOR CONTROLLER TO MAINTAIN 1.0" [25mm] OF DUCT STATIC PRESSURE (FIELD ADJUSTABLE), SENSED BY SPS-1. RESET STATIC PRESSURE BASED ON ACTUAL BUILDING LOAD BY POLLING ALL ATU. BAS SHALL TRACK FLOW / HEATING / COOLING REQUESTS FROM ALL TERMINAL UNITS (ATU).

3.2

THE DIGITAL CONTROL PANEL, USING TOTAL SUPPLY AIR, RETURN AIR AND OUTSIDE AIR FLOW SIGNALS, SHALL RESET THE RETURN AIR FAN VSMC TO MAINTAIN A CONSTANT AIR FLOW DIFFERENCE BETWEEN THE SUPPLY AIR AND THE RETURN AIR EQUAL TO MINIMUM OUTSIDE AIR.

3.3

USING HIGH PRESSURE SENSOR SPS-2 LOCATED AT THE SUPPLY FAN DISCHARGE, SHALL PREVENT THE SUPPLY FAN FROM DEVELOPING OVER 3" [75mm] OF STATIC PRESSURE (FIELD ADJUSTABLE). IF STATIC PRESSURE AT SPS-2 DOES EXCEED 3" [75mm] THE SUPPLY AIR FAN SHALL STOP. SPS-2 SHALL BE HARDWIRED TO THE SUPPLY FAN VSMC AND UNIT SHALL BE SHUTDOWN IN HAND, AUTO, OR BYPASS MODE. SPS-2 WILL REQUIRE MANUAL RESET AT THE DEVICE.

4. HUMIDITY CONTROL

4.1 WHEN THE DIGITAL CONTROL PANEL IS NOT CALLING FOR HUMIDITY, SENSED BY RETURN AIR HUMIDITY RAH, 2-WAY "ON-OFF" CONTROL VALVE V-3 SHALL REMAIN CLOSED. WHEN THE DIGITAL CONTROL PANEL IS CALLING FOR HUMIDITY, V-3 SHALL REMAIN OPEN.

4.2 RETURN AIR HUMIDITY SHALL BE MAINTAINED AT SETPOINT OF 30% RH (ADJ) VIA DIGITAL CONTROL PANEL BY MODULATING CONTROL VALVE V-4 TO MAINTAIN THE DESIRED HUMIDITY. THE DCP SHALL OVERRIDE THIS CONTROL TO MAINTAIN HUMIDITY OF 60% AS SENSED BY H-2. DCP SHALL CLOSE VALVE V-3 WHENEVER THE SUPPLY FAN IS OFF. VALVE V-4 SHALL BE INTERLOCKED WITH A TEMPERATURE SWITCH TO KEEP THE HUMIDIFIER OFF UNTIL CONDENSATE TEMPERATURE APPROACHES STEAM TEMPERATURE.

5. FREEZE PROTECTION

5.1 IF THE AIR TEMPERATURE AS SENSED BY PHT FALLS BELOW 45°F [7°C], AN ALARM SIGNAL SHALL INDICATE AT THE DCP AND ECC. IF THIS TEMPERATURE FALLS BELOW 40°F [4.4°C], AS SENSED BY THE TSL THE SUPPLY AND RETURN FANS SHALL SHUT DOWN AND A CRITICAL ALARM SHALL INDICATE AT THE DIGITAL CONTROL PANEL AND ECC. TSL SHALL BE HARDWIRED TO THE SUPPLY FAN VFD AND UNIT SHALL BE SHUTDOWN IN HAND, AUTO OR BYPASS MODE. TSL WILL REQUIRE MANUAL RESET AT THE DEVICE.

6. AUTOMATIC SHUTDOWN/RESTART

6.1 WHEN SMOKE IS DETECTED BY DUCT SMOKE DETECTOR, SD, THE SUPPLY AND RETURN FANS SHALL SHUT "OFF" AND AN ALARM SIGNAL SHALL BE TRANSMITTED TO THE FIRE ALARM SYSTEM. ALL SMOKE DAMPERS IN THE SUPPLY AND RETURN DUCTS SHALL CLOSE.

6.2 EXHAUST FANS SERVING AREA OF THE SUPPLY FAN SHALL CONTINUE TO RUN. SUPPLY AND RETURN FANS SHALL RESTART AND SMOKE DAMPERS SHALL OPEN WHEN FIRE ALARM CIRCUIT IS RESET.

7. EMERGENCY CONSTANT SPEED OPERATION

7.1 UPON FAILURE OF THE VSMC, THE SUPPLY AND RETURN FANS SHALL BE STARTED/STOPPED MANUALLY AT THE DIGITAL CONTROL PANEL OR THE ECC THROUGH THE BY-PASS STARTER. FANS SHALL THEN BE OPERATED AT CONSTANT SPEED.

JOB: 553-21-100
BUILDING: BUILDING 1 - A2 SOUTH RENOVATION
PAGE:

SYSTEM: VAV AIR HANDLER AHU-2081

SYSTEM COMPONENT:	POINT ID	ABBREVIATION	POINT LEGEND	SYSTEM OUTPUTS: BINARY	SYSTEM OUTPUTS: ANA-LOG	SYSTEM INPUTS: BINARY	SYSTEM INPUTS: ANALOG	SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING	SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION	REMARKS
RETURN AIR TEMPERATURE	AI-1	RAT					o			
RETURN AIR HUMIDITY	AI-2	RAH					o			
RETURN AIR FLOW (CFM)	AI-3	RAF					o			
MIXED AIR TEMPERATURE	AI-4	MAT					o			
PRE-HEAT TEMPERATURE	AI-5	PHT					o			
COOLING COIL TEMPRATURE	AI-6	CCT					o			
DISCHARGE AIR TEMPERATURE	AI-7	DAT					o			
DISCHARGE STATIC PRESSURE	AI-8	DASP					o			
DISCHARGE AIR HUMIDITY	AI-9	DAH					o			
SUPPLY AIRFLOW (cfm)	AI-10	SAF					o			
OUTSIDE AIR TEMPERATURE	AI-11	OAT					o			
OUTSIDE AIR FLOW (CFM)	AI-12	OAF					o			
RETURN LOW PRESSURE	BI-1	RLP				o				
RETURN FAN STATUS	BI-2	RF-STS				o				
SUPPLY FAN STATUS	BI-3	SF-STS				o				
MIXED AIR LOW LIMIT	BI-4	TSL-1					o			
STATIC PRESSURE HIGH LIMIT	BI-5	SPS-2				o				
HUMIDITY HIGH LIMIT	BI-6	HHL				o				
SUPPLY FAN VSMC ALARM	BI-7	SF-ALA				o				
RETURN FAN VSMC ALARM	BI-8	RF-ALA				o				
RETURN FAN VSMC	AO-1	RF-SPD		o						o o FULL COMMUNICATION
SUPPLY FAN VSMC	AO-2	SF-SPD		o						o o FULL COMMUNICATION
OUTSIDE AIR DAMPER	AO-3	OAD			o				o	
RETURN AIR DAMPER	AO-4	RAD			o				o	
EXHAUST AIR DAMPER	AO-5	EAD			o				o	
MINIMUM OUTSIDE AIR DAMPER	AO-7	MIN-OAD			o					
PRE-HEAT VALVE V-2	AO-8	PHT-V1								
COOLING VALVE V-1	AO-9	CLG-V1								
STEAM HUMIDIFIER VALVE V-4	AO-10	HUM-V4								
DUCT STATIC PRESSURE	AO-11	SPS-1								
PRE-FILTER ΔP	AO-12	FLTP-1								
AFTER FILTER ΔP	AO-13	FLTP-2								
RETURN FAN START/STOP	BO-1	RF-SST								
SUPPLY FAN START/STOP	BO-2	SF-SST								
STEAM ISOLATION VALVE V-3	BO-3	HUM-ISO-V3								

5 POINTS LIST FOR VARIABLE AIR VOLUME AIR HANDLING UNIT (AHU-2081)
NOT TO SCALE

CV BOX CONTROL SEQUENCE (W/ DEADBAND)

A. SET POINTS SHALL SET AS FOLLOWS:
COOLING 75°F (ADJ)
HEATING 70° F (ADJ)
DEADBAND OF 5° F BETWEEN HEATING AND COOLING SET POINT WILL BE MAINTAINED

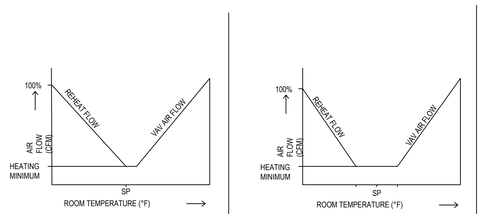
B. UPON FALL IN SPACE TEMPERATURE BELOW SET POINT VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT BY +/- 0.5°F. THE ADJUSTABLE TOLERANCE HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

C. VALVE V-2 SHALL BE ENABLED WHEN OUTSIDE AIR FALLS BELOW 40°F (ADJ) AND VALVE V-1 HAS BEEN MODULATED OPEN ABOVE 30% (ADJ). V-2 SHALL THEN BE MODULATED TO MAINTAIN SET POINT BY +/- 0.5°F. THE ADJUSTABLE TOLERANCE HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

D. THE REVERSE SHALL OCCUR ON RISE IN SPACE TEMPERATURE.

WITH SUPPLEMENTAL HEATING

4 CONSTANT VOLUME AIR TERMINAL UNIT CONTROL DIAGRAM (AHU-2081)
NOT TO SCALE



VAV BOX CONTROL SEQUENCE (NO DEADBAND)

A. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.

B. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT BY +/- 0.5° F. THE ADJUSTABLE TOLERANCE HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

C. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE.

VAV BOX CONTROL SEQUENCE (W/DEADBAND)

A. SET POINTS SHALL BE SET AS FOLLOWS:
COOLING 75°F (ADJ)
HEATING 70°F (ADJ)
DEADBAND OF 5° F BETWEEN HEATING AND COOLING SET POINTS WILL BE MAINTAINED.

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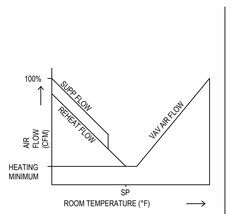
D. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE



VAV BOX CONTROL SEQUENCE (NO DEADBAND)

A. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.

B. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT BY +/- 0.5° F. THE ADJUSTABLE TOLERANCE HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

C. VALVE V-2 SHALL BE ENABLED WHEN OUTSIDE AIR FALLS BELOW 40° F (ADJ) AND VALVE V-1 HAS BEEN MODULATED OPEN ABOVE 30% (ADJ). VALVE V-2 MAINTAIN SET POINT BY +/- 0.5° F. THE ADJUSTABLE TOLERANCE HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

D. THE REVERSE SHALL OCCUR ON A RISE IN SPACE TEMPERATURE.

VAV BOX CONTROL SEQUENCE W/DEADBAND

A. SET POINTS SHALL BE SET AS FOLLOWS:
COOLING 75°F (ADJ)
HEATING 70°F (ADJ)
DEADBAND OF 5° F BETWEEN HEATING AND COOLING SET POINTS WILL BE MAINTAINED.

B. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.

C. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT BY +/- 0.5° F. THE ADJUSTABLE TOLERANCE HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

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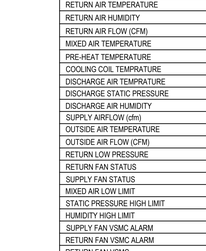
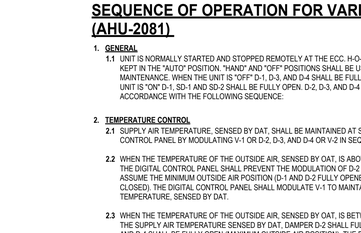
E. THE REVERSE SHALL OCCUR ON A RISE IN SPACE TEMPERATURE.



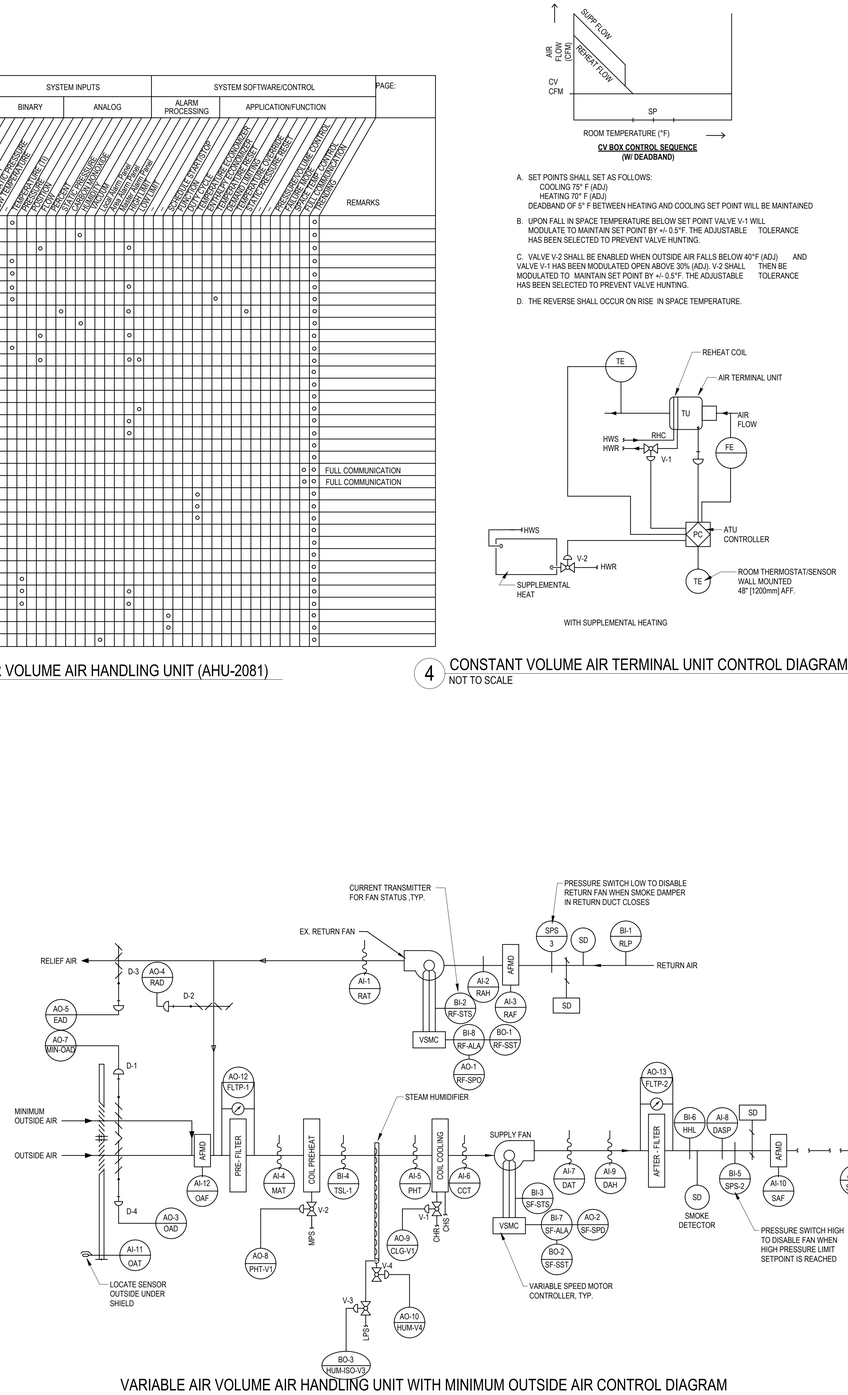
WITH SUPPLEMENTAL HEATING



STEAM HUMIDIFIER

RETURN (OR EXHAUST) AIR HUMIDITY SHALL BE MONITORED. ON A CALL FOR HUMIDIFICATION, HUMIDIFIER VALVE V-4 SHALL MODULATE TO MAINTAIN THE RETURN (OR EXHAUST) AIR HUMIDITY SET POINT TO 30% (ADJUSTABLE). PRIOR TO ACTIVATION OF V-4, THE ON/OFF CONTROL VALVE V-3 SHALL BE ENABLED THROUGH ECC AND JACKET TEMPERATURE SENSED BY TSH SHALL BE WARM ENOUGH TO PREVENT CONDENSATION. THE HIGH LIMIT HUMIDITY SENSOR, LOCATED IN THE SUPPLY AIR DUCT 10 FEET AWAY FROM THE HUMIDIFIER SHALL DISABLE THE HUMIDIFIER AND GIVE AN ALARM SIGNAL TO THE ECC, IF THE SUPPLY AIR HUMIDITY EXCEEDS 90% RH (ADJUSTABLE). THE AIRFLOW SWITCH SHALL PROVE AIRFLOW BEFORE HUMIDITY CONTROLS ARE ACTIVATED.

3 STEAM HUMIDIFIER CONTROLS (AHU-2081& AHU-2082)
NOT TO SCALE



VARIABLE AIR VOLUME AIR HANDLING UNIT WITH MINIMUM OUTSIDE AIR CONTROL DIAGRAM (AHU-2081)

1 NOT TO SCALE

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

Drawing Title: MECHANICAL CONTROLS
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: JDL/AS
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Project Number: 553-21-100
Building Number:
Drawing Number: M-801

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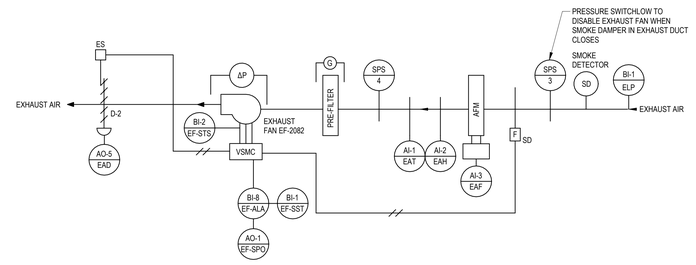
JOB: 553-21-100
BUILDING: BUILDING 1 - A2 SOUTH RENOVATION

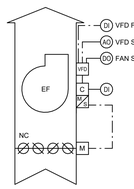
PAGE:

SYSTEM COMPONENT: (SYSTEM: VAV AIR HANDLER AHU-2082)	POINT ID	ABBREVIATION	POINT LEGEND	SYSTEM OUTPUTS: BINARY	SYSTEM OUTPUTS: ANALOG	SYSTEM INPUTS: BINARY	SYSTEM INPUTS: ANALOG	SOFTWARE/CONTROL: ALARM PROCESSING	SOFTWARE/CONTROL: APPLICATION/FUNCTION	REMARKS
EXHAUST AIR TEMPERATURE	AI-1	EAT			o		o		o	
EXHAUST AIR HUMIDITY	AI-2	EAH			o		o		o	
EXHAUST AIR FLOW (CFM)	AI-3	EAF			o		o		o	
AMBIENT AIR TEMPERATURE	AI-4	AAT			o		o		o	
PRE-HEAT TEMPERATURE	AI-5	PHT			o		o		o	
COOLING COIL TEMPRATURE	AI-6	CCT			o		o		o	
DISCHARGE AIR TEMPRATURE	AI-7	DAT			o		o		o	
DISCHARGE STATIC PRESSURE	AI-8	DASP			o		o		o	
DISCHARGE AIR HUMIDITY	AI-9	DAH			o		o		o	
SUPPLY AIRFLOW (cfm)	AI-10	SAF			o		o		o	
OUTSIDE AIR TEMPERATURE	AI-11	OAT					o		o	
OUTSIDE AIR FLOW (CFM)	AI-12	OAF			o		o		o	
EXHAUST LOW PRESSURE	BI-1	ELP							o	
EXHAUST FAN STATUS	BI-2	EF-STS		o					o	
SUPPLY FAN STATUS	BI-3	SF-STS		o					o	
AIR TEMP. LOW LIMIT	BI-4	TSL-1				o			o	
STATIC PRESSURE HIGH LIMIT	BI-5	SPS-2				o			o	
HUMIDITY HIGH LIMIT	BI-6	HHL				o			o	
SUPPLY FAN VSMC ALARM	BI-7	SF-ALA			o				o	
EXHAUST FAN VSMC ALARM	BI-8	EF-ALA			o				o	
EXHAUST FAN VSMC	AO-1	EF-SPD		o					o	FULL COMMUNICATION
SUPPLY FAN VSMC	AO-2	SF-SPD		o					o	FULL COMMUNICATION
OUTSIDE AIR DAMPER	AO-3	OAD			o			o		
EXHAUST AIR DAMPER	AO-5	EAD			o			o		
PRE-HEAT VALVE V-2	AO-8	PHT-V1		o						
COOLING VALVE V-1	AO-9	CLG-V1		o						
STEAM HUMIDIFIER VALVE V-4	AO-10	HUM-V4		o						
DUCT STATIC PRESSURE	AO-11	SPS-1					o			
PRE-FILTER ΔP	AO-12	FLTP-1					o		o	
AFTER FILTER ΔP	AO-13	FLTP-2					o		o	
EXHAUST FAN START/STOP	BO-1	EF-SST	o					o		
SUPPLY FAN START/STOP	BO-2	SF-SST	o					o		
STEAM ISOLATION VALVE V-3	BO-3	HUM-ISO-V3	o					o		

POINTS LIST FOR VARIABLE AIR VOLUME AIR HANDLING UNIT (AHU-2082 INTERLOCKED WITH EF-2082)

2 NOT TO SCALE





SEQUENCE OF OPERATION:

FAN RUNS CONTINUOUSLY. ON FAN START, DISCHARGE DAMPER OPENS. STATIC PRESSURE CONTROLLER MODULATES VFD TO MAINTAIN DUCT STATIC PRESSURE. IF DUCT STATIC PRESSURE RISES 0.5" ABOVE SETPOINT DISCHARGE DAMPER MODULATES TO LIMIT DUCT STATIC THE REDUNDANT EF-BSC-2 SHALL BE GIVIN EQUAL RUN TIME BASED ON A SCHEDULE (MONTHLY, ADJ)

3 EF-BSC-1 (N+1) EXHAUST FAN CONTROL DIAGRAM
NOT TO SCALE

1 VARIABLE AIR VOLUME AIR HANDLING UNIT WITH 100% OUTSIDE AIR CONTROL DIAGRAM (AHU-2082 & EF-2082)
NOT TO SCALE

USP 800 ZONE SCHEDULE

ROOM NAME	ROOM NUMBER	ZONE NUMBER*	ISO CLASS	ROOM PRESSURE (IN WG	AREA (SQFT)	ROOM HEIGHT (FT)	ROOM VOLUME (CUFT)	ACPH	ACPH CFM	DESIGN CFM*	EXHAUST CFM*
PHARMACISTS WORK AREA	A2053	1	NA	0	201	9	1809	6	181	200	200
HD STORAGE	A2054	2	NA	-0.02	96	9	864	12	173	180	280
ANTEROOM	A2055	3	7	0.02	235	9	2115	35	1234	1250	1100
NON HD BUFFER ROOM	A2056	4	7	0.02	109	9	981	25	409	415	300
HD BUFFER ROOM	A2057	5	7	-0.01 TO -0.03	191	9	1719	35	1003	1000***	1200**

* ALL THE EXHAUST AND SUPPLY CFM VALUES SHALL BE ADJUSTED AND FIELD VERIFIED BASED ON AND MAINTAINING MINIMUM ACPH, DIFFERENTIAL PRESSURE DIFFERENCES, CASCADE/DIRECTIONAL AIR FLOW, CODES AND EQUIPMENT EQUIREMENTS.
** TOTAL ONCOLOGY ROOM-EXHAUST AIR SHALL BE EITHER 1200 CFM OR 550 CFM BASED ON WHETHER THE BIOSAFTY EXHAUST FAN, EF-BSC-1 (N+1) IS IN SERVICE THE ROOM EXHAUST FROM (HD BUFFER) SHALL BE 590 CFM, EXHUSTING AIR VIA THE CANOPY CONNECTION OF THE BSCS. IF NON OR AT LEAST ONE OF THE CALSS II A2 BSCs ARE IN SERVICE, RESPECTIVELY. EACH BSC REQUIRES CONSTANTLY BEING EXHASUTED AT 305 (ADJ) CFM (GERMFREE: BBF-4SSRX).
*** TOTAL ONCOLOGY ROOM SUPPLY AIR SHALL BE 1000 (ADJ) CFM REGARDLESS OF WHETHER BOTH OF BSCs ARE IN SERVICE, ONE OR NON IS IN SERVICE, RESPECTIVELY, IT MAINTAINS MINIMUM REQUIRED NUMBER OF ACPH FOR ISO CLASS 7 CLEANROOM.
* ZONE 6 IS THE OUTSIDE CORRIDOR ADJUCENT TO THE ANTEROOM ENTRANCE.

SEQUENCE OF OPERATION FOR THE SATELLITE USP PHARMACY: AIRFLOW CONTROL VALVE WITH HW REHEAT

CONTROL SYSTEM NOTES:

THE EXISTING FACILITY MANAGEMENT SYSTEM IS SIEMENS. THIS CONTRACT SHALL ACCOMPLISH THE FOLLOWING:

1. CONTROLS SHALL BE 100% FORWARD AND BACKWARD COMPATIBLE WITH THE EXISTING SYSTEM.

2. CONTROLS SHALL BE FULL NATIVE BACnet.

3. CONTROLS SHALL SEAMLESSLY INTEGRATE INTO THE EXISTING SIEMENS SOFTWARE AND SYSTEM ARCHITECTURE.

4. UPDATE GRAPHICS DISPLAYS TO PROPERLY DISPLAY THE NEW INSTALLED SYSTEM.

5. CONTROLS SHALL HAVE NO NEW LOGINS, SERVERS, LAPTOPS, OR OTHER FORM OF INTERFACE SOFTWARE SHALL BE REQUIRED FOR THE FACILITY TO HAVE COMPLETE ACCESS TO THE SYSTEM BEING INSTALLED/MODIFIED.

6. ALL CONTROLS WORK SHALL BE EXECUTED BY SIEMENS. SIEMENS SHALL PERFORM AS THE SYSTEMS INTEGRATOR.

7. BMS GRAPHICS SHALL BE UPDATED TO REFLECT NEW FLOOR PLANS AND EQUIPMENT.

8. SIEMENS SHALL CREATE A FINAL LAYOUT DRAWING OF THE EXISTING AND NEW REQUIRED SENSORS.

9. THE DOORS TO NON-HD BUFFER ROOM (A2056) AND HD BUFFER ROOM (A2057) SHALL BE INTER-LOCKED SUCH THAT WHEN ONE ROOM DOOR OPENS, THE OTHER ROOM DOOR SHALL NOT OPEN TILL PROPER PRESSURE DIFFERENTIAL BETWEEN THAT ROOM AND THE ANTEROOM IS MAINTAINED (ENOUGH DELAY/TIME FOR PRESSURE TO BUILD).

GENERAL:

THE AIRFLOW CONTROL VALVE (AFCV) SHALL MAINTAIN A CONSTANT VOLUMETRIC OFFSET BETWEEN THE SUPPLY AND EXHAUST AIRFLOWS TO MEET THE AIRCHANGE REQUIREMENTS FOR EACH ROOM AND TO MAINTAIN PRESSURE DIFFERENTIALS BETWEEN ROOMS (AS LISTED IN TABLE ABOVE FOR ZONE SCHEDULE). AFCVs ARE CONTROLLED INDEPENDENT OF SYSTEM PRESSURE FLUCTUATIONS BY THE DDC USING ELECTRIC FAST ACTING ACTUATION. THE CRITICAL ROOM CONTROL DEVICE (CRC) SHALL MONITOR AND DISPLAY PRESSURE DIFFERENTIALS BETWEEN ROOMS AND ALERT STAFF WITH AUDIBLE AND VISUAL ALARM IF REQUIRED PRESSURE DIFFERENTIALS ARE NOT MAINTAINED. THE CRC SHALL DISPLAY VOLUMETRIC FLOWS AT THE AFCV AS WELL AS SPACE TEMPERATURES. CRC SHALL BE A READ-ONLY DEVICE.

THE AFCV DIFFERENTIAL PRESSURE CONTROL ENVELOPE CONSISTS OF (6) ZONES: (5) INTERIOR AND (1) EXTERIOR ZONES: ZONE (1) SERVING PHARMACIST WORK AREA A2053, ZONE (2) SERVING HAZARDOUS DRUG STORAGE A2054, ZONE (3) SERVING ANTEROOM A2055, ZONE (4) SERVING STERILE NON-HAZARDOUS DRUG BUFFER ROOM A2056, ZONE (5) SERVING STERILE HAZARDOUS DRUG (HD) BUFFER ROOM A2057 AND ZONE (6) IS THE EXTERIOR CORRIDOR ADJACENT TO ZONE (1).

THE PRESSURE INDEPENDENT AFCVs TOGETHER WITH THEIR RESPECTIVE HOT WATER REHEAT COIL AND ITS HYDRONIC VALVE SERVE THE (5) INTERIOR ZONES AND ARE DDC CONTROLLED. AS PART OF THE CONTROL SYSTEM, ZONES ARE MAINTAINED AT DESIGN CONDITIONS USING THE FOLLOWING COMPONENTS:

- ROOM DIFFERENTIAL PRESSURE SENSORS: DP-1 TO DP-6, NUMBERED THE SAME AS THEIR RESPECTIVE ZONES. SIEMENS CONTRACTOR SHALL PROVIDE AND INTEGRATE ALL REQUIRED SENSORS; ROOM PRESSURE MONITORS (RPM) AND FIELD VERIFY FOR THEIR PROPER LOCATION.
- ROOM TEMPERATURE SENSORS: T/H-1 TO T/H-5, TEMPERATURE SENSORS NUMBERED THE SAME AS THEIR RESPECTIVE ZONES. SIEMENS CONTRACTOR SHALL PROVIDE AND INTEGRATE ALL REQUIRED SENSORS AND FIELD VERIFY FOR THEIR PROPER LOCATION.
- ROOM HUMIDITY SENSORS: T/H-1 TO T/H-5, HUMIDITY SENSORS NUMBERED THE SAME AS THEIR RESPECTIVE ZONES. SIEMENS CONTRACTOR SHALL PROVIDE AND INTEGRATE ALL REQUIRED SENSORS AND FIELD VERIFY FOR THEIR PROPER LOCATION.
- HOT WATER REHEAT VALVE ACTUATOR: SIEMENS CONTRACTOR SHALL PROVIDE AND INTEGRATE ALL REQUIRED SENSORS AND FIELD VERIFY FOR THEIR PROPER LOCATION.
- SUPPLY AIR TEMPERATURE SENSOR.

THE AFCVs SERVING ZONES (1) TO (5) SHALL BE HARDWIRED TO A NEW SIEMENS PXC CONTROLLER. ZONE 1, ZONE TO ZONE 5 SHALL BE MAINTAINED AT 68 °F (SET POINT TEMPERATURE) FOR HEATING AND COOLING AT A MAXIMUM RELATIVE HUMIDITY, RH OF %60 AND MINIMUM RH OF %30.

ZONE PRESSURIZATION CONTROL:

THE DDC SYSTEM SHALL MONITOR THE DIFFERENTIAL PRESSURE BETWEEN ZONE 2 (LOW) AND ZONE 1 (HIGH); ZONE 1 (LOW) AND ZONE 3 (HIGH); ZONE 3 (LOW) AND ZONE 4 (HIGH); ZONE 5 (LOW) AND ZONE 3 (HIGH) (SEE SHEET M-401 FOR CASCADE/DIRECTIONAL AIRFLOW PLAN/DIAGRAM).

ZONE 3 SHALL MAINTAIN POSITIVE PRESSURE TO ZONE 1, ZONE 5 AND ZONE 6 (MINIMUM +0.02 INCHES OF WATER COLUMN). ZONE 4 SHALL MAINTAIN POSITIVE PRESSURE TO ZONE 3 (MINIMUM +0.02 INCHES OF WATER COLUMN). ZONE 4 SHALL MAINTAIN POSITIVE PRESSURE TO ZONE 6 (MINIMUM +0.04 (ADJ.) INCHES OF WATER COLUMN). ZONE 5 SHALL MAINTAIN NEGATIVE PRESSURE TO ZONE 3 (MINIMUM NEGATIVE 0.01 TO 0.03 INCHES OF WATER COLUMN).

IN HD BUFFER ROOM (A2057), THE SUPPLY AFCV AND ROOM-EXHAUST AFCV WILL MODULATE THE AIRFLOW BASED ON WHETHER BOTH OR NON-OF THE BIO SAFETY CABINETS (EACH BSC SHALL BE CONSTANTLY EXHASUTED AT 305 (ADJ) CFM (GERMFREE CLASS II TYPE A2: BBF-4SSRX) ARE IN SERVICE AS FOLLOWS:

1. BOTH BSCs IN SERVICE (TYPICAL EXPECTED ONCOLOGY ROOM OPERATION): TOTAL ONCOLOGY ROOM SUPPLY AIR SHALL BE 1000(ADJ) CFM, TOTAL ROOM EXHAUST SHALL BE 590 (ADJ) CFM AND 610(ADJ) CFM SHALL BE EXHAUSTED THROUGH THE BSCs ' EXHAUST FAN (EF-BSC).
2. EF-BSC SHUTDOWN AND NON OF BSCs IN SERVICE: TOTAL ONCOLOGY ROOM SUPPLY AIR SHALL REMAINS AT 1000(ADJ) CFM. THE TOTAL ONCOLOGY ROOM-EXHASUT AIR SHALL BE 1200(ADJ) CFM.
3. IN EITHER OF THE ABOVE CASES, THE MINIMUM REQUIRED NUMBER OF ACPH FOR ISO CLASS 7 CLEANROOM AND ROOM AIR PRESSURIZATION SHALL BE SATISFIED/MAINTAINED.

GENERAL ZONE CONTROL:

THE DDC CONTROLLER MEASURES THE TEMPERATURE IN THE ZONES BY MEANS OF THE ROOM TEMPERATURE SENSORS (T/H-1 TO T/H-5) AND MAINTAINS THE ROOM TEMPERATURE AT THE SET POINT BY PROPORTIONALLY ADJUSTING THE SUPPLY AIRFLOWS IN EACH ZONE TO MAINTAIN THE FLOW DIFFERENTIAL BETWEEN ZONES AND MODULATING THE HEATING VALVES USING A PROPORTIONAL, INTEGRAL AND DERIVATIVE (PID) CLOSED LOOP CONTROL ALGORITHM. ROOM SUPPLY AIR TEMPERATURE IS CONTROLLED TO THE ROOM SET POINT. THE DDC CONTROLLER TEMPERATURE CONTROLLOOP CALCULATES A SUPPLY AIRFLOW REQUIRED FOR COOLING TEMPERATURE CONTROL VOLUME.

IF ANY TERMINAL SUPPLY AIR IS AT OR BELOW ITS MINIMUM LIMIT AND THE ROOM REQUIRES INCREASED COOLING BEYOND THE AMOUNT OF ROOM SUPPLY AIR CFM NECESSARY TO MAINTAIN THE REQUIRED FLOW DIFFERENTIAL, THE DDC CONTROLLER PROPORTIONALLY INCREASES THE SUPPLY AIRFLOW OF THE ZONES, MAINTAINING THE CFM DIFFERENTIAL BETWEEN ZONES TO MAINTAIN THE ROOM TEMPERATURE SET POINT AND THE FLOW DIFFERENTIAL BETWEEN ZONES.

CONTROL PRIORITY:

A PRIORITY STRUCTURE APPLIES TO THE ABOVE CONTROL TO ENSURE THAT SAFETY IS MAINTAINED AS THE HIGHEST CONTROL PRIORITY WHEN HVAC SYSTEMS OR INDIVIDUAL COMPONENTS CANNOT MEET ALL DEMANDS PLACED UPON THE SYSTEM. ZONE PRESSURIZATION AND THE REQUIRED NUMBER OF AIR CHANGES PER HOUR, ACPH ARE THE CONTROL SYSTEM DRIVERS. THE POSITIVELY PRESSURIZED ZOONS SHALL HAVE THE HIGHEST LEVEL OF PRIORITY. ZONE/ROOM TEMPERATURE SHALL BE PLACED AT THE LAST LEVEL OF PRIORITY.

SEQUENCE OF OPERATION FOR VARIABLE AIR VOLUME AIR HANDLING UNIT WITH 100% OUTSIDE AIR

(USE THE LATEST VERSION OF ASHRAE GUIDELINE 36 SEQUENCE OF OPERATION)

1. **GENERAL**
   1.1 UNIT IS NORMALLY STARTED AND STOPPED REMOTELY AT THE ECC. H-O-A SWITCH SHALL BE KEPT IN THE "AUTO" POSITION. "HAND" AND "OFF" POSITIONS SHALL BE USED ONLY FOR MAINTENANCE. WHEN THE UNIT IS "OFF" D-1 AND D-2 SHALL BE FULLY CLOSED. WHEN THE UNIT IS "ON" D-1 AND D-2 SHALL BE FULLY OPEN IN ACCORDANCE WITH THE FOLLOWING SEQUENCE:

2. **TEMPERATURE CONTROL**
   2.1 SUPPLY AIR TEMPERATURE, SENSED BY DAT, SHALL BE MAINTAINED AT SETPOINT VIA DIGITAL CONTROL PANEL BY MODULATING V-1 OR V-2 IN SEQUENCE.
   2.2 WHEN THE TEMPERATURE OF THE SUPPLY AIR, SENSED BY DAT IS ABOVE SETPOINT THE DIGITAL CONTROL PANEL SHALL MODULATE V-1 TO MAINTAIN THE SUPPLY AIR TEMPERATURE.
   2.3 WHEN THE TEMPERATURE OF THE SUPPLY AIR, SENSED BY DAT, IS BELOW SETPOINT THE DIGITAL CONTROL PANEL SHALL MODULATE V-2 TO MAINTAIN THE SUPPLY AIR TEMPERATURE WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY OAT, IS BELOW 40°F [4.4°C] THEN V-2 SHALL FULLY OPEN AND TO MAINTAIN THE SUPPLY AIR TEMPERATURE.
   2.4 EXHAUST AIR TEMPERATURE SENSOR EAT MONITORS THE EXHAUST AIR TEMPERATURE AT THE DCP.

3. **AIR FLOW CONTROL**
   3.1 THE SUPPLY AIR FLOW SHALL BE CONTROLLED BY THE DIGITAL CONTROL PANEL MODULATING THE SUPPLY FAN VARIABLE SPEED MOTOR CONTROLLER (VSMC) TO MAINTAIN 1.0" [25mm] OF DUCT STATIC PRESSURE (FIELD ADJUSTABLE), SENSED BY SPS-1. RESET STATIC PRESSURE BASED ON ACTUAL BUILDING LOAD BY POLLING ALL ATU/AFCVS BAS SHALL TRACK FLOW (HEATING/COOLINGREQUEST) FROM ALL AIRFLOW CONTROL VALVES (AFCVS).
   3.2 USING HIGH PRESSURE SENSOR SPS-2 LOCATED AT THE SUPPLY FAN DISCHARGE, SHALL PREVENT THE SUPPLY FAN FROM DEVELOPING OVER 3" [75mm] OF STATIC PRESSURE (FIELD ADJUSTABLE). IF STATIC PRESSURE AT SPS-2 DOES EXCEED 3" [75mm] THE SUPPLY AIR FAN SHALL STOP. SPS-2 SHALL BE HARDWIRED TO THE SUPPLY FAN VSMC AND UNIT SHALL BE SHUTDOWN IN HAND, AUTO, OR BYPASS MODE. SPS-2 WILL REQUIRE MANUAL RESET AT THE DEVICE.
   3.3 THE EXHAUST AIR FLOW SHALL BE CONTROLLED BY MODULATING EXHAUST FAN (EF-2082) VARIABLE SPEED MOTOR CONTROLLER (VSMC) TO MAINTAIN THE DUCT STATIC PRESSURE SETPOINT (SET AT -0.05 INCHES STATIC PRESSURE, FIELD ADJ) AS SENSED BY SPS-3.
   3.4 THE DCP USING THE HIGH PRESSURE SENSOR SPS-4 LOCATION AT THE EXHAUST FAN SUCTION SHALL PREVENT THE EXHAUST FAN FROM DEVELOPING LESS THAN -2.0 INCHES OF STATIC PRESSURE AT SPS-4. IF STATIC PRESSURE AT SPS-4 EXCEEDS A NEGATIVE STATIC GREATER THAN -2.0 INCHES AN ALARM SHALL BE GENERATED AT THE ECC.
   3.5 THE DCP SHALL MONITOR THE SUPPLY AND EXHAUST AIR FLOWS. THE DIGITAL CONTROL PANEL USING TOTAL SUPPLY/OUTSIDE AIR AND ALL/TOTAL EXHAUST AIR FLOW SIGNALS, SHALL RESET THE EXHAUST AIR FAN EF-2082 VSMC TO MAINTAIN A CONSTANT AIRFLOW DIFFERENCE BETWEEN THE SUPPLY AIR AND THE EXHAUST AIR.
   3.6 IF THE BIO SAFTY CABINET EXHAUST FANS EF-BSC-1&2 (N+1) SHUT DOWN (NOT IN SERVICE), EF-2082 SHALL RAMP UP BY EXHAUSTING AN ADDITIONAL 610 CFM (ADJ) FROM ROOM A2057 (AFCV - 2082 - 2057 - E)TO MAINTAIN THE HD BUFFER ROOM REQUIRED PRESSUREIZATION. ELSE, EF-2082 SHALL OPERATE AT ITS DESIGN /NORMAL FLOWRATES.

4. **HUMIDITY CONTROL**
   4.1 HUMIDITY SHALL BE CONTROLLED VIA DEW POINT TEMPRATURE CALCULATED FROM HUMIDITY AND TEMPRATURE.
   4.2 WHEN THE TEMPERATURE OF THE OUTSIDE AIRE SENSED BY T-2 IS ABOVE 60F (AJ) THE DCP SHALL CLOSE ON-OFF VALVE V-3. WHEN T-2 IS BELOW 60F, THE DCP SHALL OPEN V-3.
   4.3 THE DIGITAL CONTROL PANEL IS NOT CALLING FOR HUMIDITY, SENSED BY RETURN AIR HUMIDITY EAH, 2-WAY "ON-OFF" CONTROL VALVE V-3 SHALL REMAIN CLOSED. WHEN THE DIGITAL CONTROL PANEL IS CALLING FOR HUMIDITY, V-3 SHALL REMAIN OPEN. RETURN AIR HUMIDITY SHALL BE MAINTAINED AT SETPOINT OF 30% RH (ADJ) VIA DIGITAL CONTROL PANEL BY MODULATING CONTROL VALVE V-4 TO MAINTAIN THE DESIRED HUMIDITY. THE DCP SHALL OVERRIDE THIS CONTROL TO MAINTAIN HUMIDITY OF 60% AS SENSED BY DAH. DCP SHALL CLOSE VALVE V-3 WHENEVER THE SUPPLY FAN IS OFF. VALVE V-4 SHALL BE INTERLOCKED WITH A TEMPERATURE SWITCH TO KEEP THE HUMIDIFIER OFF UNTIL CONDENSATE TEMPERATURE APPROACHES STEAM TEMPERATURE.

5. **FREEZE PROTECTION**
   5.1 IF THE AIR TEMPERATURE AS SENSED BY PHT FALLS BELOW 45°F [7°C], AN ALARM SIGNAL SHALL INDICATE AT THE DCP AND ECC. IF THIS TEMPERATURE FALLS BELOW 40°F [4.4°C], AS SENSED BY THE TSL THE SUPPLY AND EXHAUST FANS SHALL SHUT DOWN AND A CRITICAL ALARM SHALL INDICATE AT THE DIGITAL CONTROL PANEL AND ECC. TSL SHALL BE HARDWIRED TO THE SUPPLY FAN VFD AND UNIT SHALL BE SHUTDOWN IN HAND, AUTO OR BYPASS MODE. TSL WILL REQUIRE MANUAL RESET AT THE DEVICE.

6. **AUTOMATIC SHUTDOWN/RESTART**
   6.1 WHEN SMOKE IS DETECTED BY DUCT SMOKE DETECTOR, SD, THE SUPPLY AND EXHAUST FANS SHALL SHUT "OFF" AND AN ALARM SIGNAL SHALL BE TRANSMITTED TO THE FIRE ALARM SYSTEM. ALL SMOKE DAMPERS IN THE SUPPLY AND EXHAUST DUCTS SHALL CLOSE.
   6.2 EXHAUST FANS SERVING AREA OF THE SUPPLY FAN SHALL CONTINUE TO RUN. SUPPLY AND EXHAUST FANS SHALL RESTART AND SMOKE DAMPERS SHALL OPEN WHEN FIRE ALARM CIRCUIT IS RESET.
   6.3 UPON FAILURE OF THE VSMC, THE SUPPLY AND EXHAUST FANS SHALL BE STARTED/STOPPED MANUALLY AT THE DIGITAL CONTROL PANEL OR THE ECC THROUGH THE BY-PASS STARTER. FANS SHALL THEN BE OPERATED AT CONSTANT SPEED.

7. **EMERGENCY CONSTANT SPEED OPERATION**
   7.1 UPON FAILURE OF THE VSMC, THE SUPPLY AND EXHAUST FANS SHALL BE STARTED/STOPPED MANUALLY AT THE DIGITAL CONTROL PANEL OR THE ECC THROUGH THE BY-PASS STARTER. FANS SHALL THEN BE OPERATED AT CONSTANT SPEED.

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VA FORM 08 - 6231

COPPER FEEDER SCHEDULE

FEEDER (AMPS)	COND. SIZE	2 WIRE WITH GROUND	FEEDER (AMPS)	COND. SIZE	3 WIRE WITH GROUND	FEEDER (AMPS)	COND. SIZE	4 WIRE WITH GROUND
15S	12	2#12, 1#12 GND IN 3/4"C	15	12	3#12, 1#12 GND IN 3/4"C	15N	12	4#12, 1#12 GND IN 3/4"C
20S	12	2#12, 1#12 GND IN 3/4"C	20	12	3#12, 1#12 GND IN 3/4"C	20N	12	4#12, 1#12 GND IN 3/4"C
25S	10	2#10, 1#10 GND IN 3/4"C	25	10	3#10, 1#10 GND IN 3/4"C	25N	10	4#10, 1#10 GND IN 3/4"C
30S	10	2#10, 1#10 GND IN 3/4"C	30	10	3#10, 1#10 GND IN 3/4"C	30N	10	4#10, 1#10 GND IN 3/4"C
35S	8	2#8, 1#10 GND IN 3/4"C	35	8	3#8, 1#10 GND IN 3/4"C	35N	8	4#8, 1#10 GND IN 3/4"C
40S	8	2#8, 1#10 GND IN 3/4"C	40	8	3#8, 1#10 GND IN 3/4"C	40N	8	4#8, 1#10 GND IN 3/4"C
45S	6	2#6, 1#10 GND IN 3/4"C	45	6	3#6, 1#10 GND IN 3/4"C	45N	6	4#6, 1#10 GND IN 1"C
50S	6	2#6, 1#10 GND IN 3/4"C	50	6	3#6, 1#10 GND IN 3/4"C	50N	6	4#6, 1#10 GND IN 1"C
60S	4	2#4, 1#10 GND IN 1"C	60	4	3#4, 1#10 GND IN 1"C	60N	4	4#4, 1#10 GND IN 1 1/4"C
70S	4	2#4, 1#8 GND IN 1"C	70	4	3#4, 1#8 GND IN 1"C	70N	4	4#4, 1#8 GND IN 1 1/4"C
80S	3	2#3, 1#8 GND IN 1"C	80	3	3#3, 1#8 GND IN 1"C	80N	3	4#3, 1#8 GND IN 1 1/4"C
90S	2	2#2, 1#8 GND IN 1"C	90	2	3#2, 1#8 GND IN 1 1/4"C	90N	2	4#2, 1#8 GND IN 1 1/2"C
100S	1	2#1, 1#8 GND IN 1 1/4"C	100	1	3#1, 1#8 GND IN 1 1/4"C	100N	1	4#1, 1#8 GND IN 1 1/2"C
			110	2	3#2, 1#6 GND IN 1 1/4"C	110N	2	4#2, 1#6 GND IN 1 1/4"C
			125	1	3#1, 1#6 GND IN 1 1/4"C	125N	1	4#1, 1#6 GND IN 1 1/2"C
			150	1/0	3#1/0, 1#6 GND IN 1 1/2"C	150N	1/0	4#1/0, 1#6 GND IN 2"C
			175	2/0	3#2/0, 1#6 GND IN 1 1/2"C	175N	2/0	4#2/0, 1#6 GND IN 2"C
			200	3/0	3#3/0, 1#6 GND IN 2"C	200N	3/0	4#3/0, 1#6 GND IN 2"C
			225	4/0	3#4/0, 1#4 GND IN 2"C	225N	4/0	4#4/0, 1#4 GND IN 2 1/2"C
			250	250	3-250 KCMIL, 1#4 GND IN 2"C	250N	250	4-250 KCMIL, 1#4 GND IN 2 1/2"C
			300	350	3-350 KCMIL, 1#4 GND IN 2 1/2"C	300N	350	4-350 KCMIL, 1#4 GND IN 3"C
			350	500	3-500 KCMIL, 1#3 GND IN 3"C	350N	500	4-500 KCMIL, 1#3 GND IN 3 1/2"C
			400	600	3-600 KCMIL, 1#3 GND IN 3 1/2"C	400N	600	4-600 KCMIL, 1#3 GND IN 4"C
			450	2-4/0	(2) 3#4/0, 1#2 GND IN 2"C	450N	2-4/0	(2) 4#4/0, 1#2 GND IN 2 1/2"C
			500	2-250	(2) 3-250 KCMIL, 1#2 GND IN 2 1/2"C	500N	2-250	(2) 4-250 KCMIL, 1#2 GND IN 2 1/2"C
			600	2-350	(2) 3-350 KCMIL, 1#1 GND IN 2 1/2"C	600N	2-350	(2) 4-350 KCMIL, 1#1 GND IN 3"C
			700	2-500	(2) 3-500 KCMIL, 1#1/0 GND IN 3"C	700N	2-500	(2) 4-500 KCMIL, 1#1/0 GND IN 3 1/2"C
			800	2-600	(2) 3-600 KCMIL, 1#1/0 GND IN 3 1/2"C	800N	2-600	(2) 4-600 KCMIL, 1#1/0 GND IN 4"C
			1000	3-500	(3) 3-500 KCMIL, 1#2/0 GND IN 3"C	1000N	3-500	(3) 4-500 KCMIL, 1#2/0 GND IN 3 1/2"C
			1200	3-600	(3) 3-600 KCMIL, 1#3/0 GND IN 4"C	1200N	3-600	(3) 4-600 KCMIL, 1#3/0 GND IN 4"C
			1600	4-600	(4) 3-600 KCMIL, 1#4/0 GND IN 4"C	1600N	4-600	(4) 4-600 KCMIL, 1#4/0 GND IN 4"C
			2000	5-600	(5) 3-600 KCMIL, 1-250 KCMIL GND IN 4"C	2000N	5-600	(5) 4-600 KCMIL, 1-250 KCMIL GND IN 4"C
			2500	7-500	(7) 3-500 KCMIL, 1-350 KCMIL GND IN 3 1/2"C	2500N	7-500	(7) 4-500 KCMIL, 1-350 KCMIL GND IN 3 1/2"C
			3000	8-500	(8) 3-500 KCMIL, 1-400 KCMIL GND IN 3 1/2"C	3000N	8-500	(8) 4-500 KCMIL, 1-400 KCMIL GND IN 3 1/2"C
			4000	10-600	(10) 3-600 KCMIL, 1-500 KCMIL GND IN 4"C	4000N	10-600	(10) 4-600 KCMIL, 1-500 KCMIL GND IN 4"C
			5000	12-600	(12) 3-600 KCMIL, 1-700 KCMIL GND IN 4"C	5000N	12-600	(12) 4-600 KCMIL, 1-700 KCMIL GND IN 4"C
			6000	15-600	(15) 3-600 KCMIL, 1-500 KCMIL GND IN 4"C	6000N	15-600	(15) 4-600 KCMIL, 1-800 KCMIL GND IN 4"C

NOTES:

1. AMPACITIES FOR FEEDER SIZES ARE BASED ON N.E.C. CODE 110-14. (TERMINATION PROVISIONS FOR EQUIPMENT RATED 100A OR LESS ARE RATED FOR USE WITH CONDUCTORS RATED 60°C. TERMINATION PROVISIONS FOR EQUIPMENT RATED GREATER THAN 100A ARE RATED FOR USE WITH CONDUCTORS RATED 75°C.).
2. CONDUIT FILL IS BASED ON 40% FILL USING SINGLE CONDUCTOR BUILDING WIRE OF INSULATION TYPES THHN, THWN, THWN-2, XHH, XHHW, AND XHHW-2 IN RMC. FOR OTHER RACEWAY TYPES REFER TO APPROPRIATE N.E.C. APPENDIX C TABLES.
3. EQUIPMENT GROUND SIZING BASED ON N.E.C. TABLE 250.122.

DIVISION 26 - ELECTRICAL

Brand	Item	Installation	Color(s)/Finish	Size	Responsibility	Priority
	EMT	Standard current carrying conductors	Galvanized	3/4"	Contractor	
	EMT	Low voltage Data/Phone/Other	Blue/Galvanized	1"	Contractor	
	EMT	Low voltage Fire System	Red/Galvanized	1"	Contractor	
	EMT	Low voltage Security/PACS	Purple/Galvanized	1"	Contractor	
	EMT	Low voltage Private Network (VGIA)	Orange/Galvanized	1"	Contractor	
	EMT	Low voltage Wireless AP	Green/Galvanized	1"	Contractor	
	EMT	Low voltage Engineering/Medical	Yellow/Galvanized	1"	Contractor	
Brady or Dymo	Circuit Labels	Receptacle(s), switch covers, all conduit every ten feet and J-boxes	White background w/ black lettering	3/8"	Contractor	Brand Name or Equal
	LED Lighting	All renovations and new construction.	Project specific		Contractor	
Unistrut	Slotted Channel	Required for mounting EMT overhead. Discuss with project COR for specific requirements.	Project specific	1.25 - 1.625"	Contractor	

DIVISION 27 - COMMUNICATIONS

Brand	Item	Installation	Color(s)/Finish	Size	Responsibility	Priority
Medical Resources	Checkpoint Wireless Temp Humidity Monitoring	Pharmacy, Dietary, Blood Bank and Laboratory Facility. Connected to BMS through Wi-Fi.				Brand Name or Equal
	Real Time Location System (RTLS)					
Rauland	Responder 5	As required in patient care areas.			Contractor	Sole Source
	CAT 6A, F/UTP	Install per manufacturers requirements (CAT 3, 5, 5e are no longer approved for use) CAT 6A, F/UTP or better.	See Division 26 Finishes for EMT, match accordingly.		Contractor	

TECHNOLOGY SYMBOL LIST

SYMBOL	DESCRIPTION
	BELL OUTLET
	CAMERA
CR	CARD READER - 48" AFF
WS	WAVE SENSOR - 48" AFF
	TECHNOLOGY OUTLET - 6" ABOVE COUNTER
	TECHNOLOGY OUTLET - FLOOR
	TECHNOLOGY OUTLET - WALL - 18" AFF UNO
A A	ONE DATA CABLE
B B	THREE DATA CABLES (1V, 2D)
C C	TWO DATA AND AN HDIM CABLES
	LOW VOLTAGE PANEL
TV	TELEVISION OUTLET
	PUSH BUTTON
I	INTERCOM
S S	SPEAKER, WALL - CEILING
	WALL CLOCK - SINGLE FACE
	WALL CLOCK - DOUBLE FACE
S	WALL CLOCK AND SPEAKER UNIT
WAP	WIRELESS ACCESS POINT
PC	NURSE CALL - PULL CORD STATION
PCA	NURSE CALL - PULL CORD STATION W/ AUDIO
NS-E	NURSE CALL - SINGLE PATIENT STATION
DS	NURSE CALL - DUTY STATION
SS	NURSE CALL - STAFF STATION
ST	NURSE CALL - STAFF TERMINAL
SC	NURSE CALL - STAFF ASSIST/CODE BLUE
NC	NURSE CALL - 2 JACK STATION
ND	NURSE CALL - DOME LIGHT

NOTES:

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND CONDUIT FOR ALL DEVICES INDICATED.
2. LOW VOLTAGE CONTRACTOR SHALL PROVIDE EXACT SPECIFICATIONS AND LOCATIONS OF ALL DEVICES.

POWER SYMBOL LIST

SYMBOL	DESCRIPTION
	CONDUIT DOWN
	CONDUIT UP
C	CORD REEL
	DISCONNECT SWITCH - NON-FUSED
	DISCONNECT SWITCH - FUSED
	DISCONNECT SWITCH - COMBINATION MOTOR STARTER
FB	FLOOR BOX
	ELECTRICAL PANEL
	GROUNDING ROD
	GROUND
	GROUNDING BAR
J	JUNCTION BOX
M	METER
	MOTOR - SINGLE PHASE
	MOTOR - THREE PHASE
$M	MOTOR RATED SWITCH
PT	POKE-THRU
	RECEPTACLE - DUPLEX TYPE
	RECEPTACLE - DUPLEX TYPE 6" ABOVE COUNTER
USB	RECEPTACLE - DUPLEX/USB COMBINATION TYPE
	RECEPTACLE - QUADRUPLEX TYPE
	RECEPTACLE - SIMPLEX TYPE
	RECEPTACLE - SPECIALTY TYPE
	SLAB PENETRATION TO INTERSTITIAL ABOVE
T	TRANSFORMER
VFD	VARIABLE FREQUENCY DRIVE

NOTES:

1. ALL DEVICE RATINGS/SIZES SHALL BE COORDINATED WITH PLANS AND SCHEDULES.

FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION
F	AUDIBLE DEVICE - CEILING MOUNTED
F	AUDIBLE DEVICE - WALL MOUNTED
C	CARBON DIOXIDE ALARM
CO	CARBON MONOXIDE ALARM
	COMBINATION AUDIBLE/VISUAL DEVICE - CEILING MOUNTED
F	COMBINATION AUDIBLE/VISUAL DEVICE - WALL MOUNTED
CO	COMBINATION CARBON MONOXIDE ALARM/SMOKE DETECTOR
	EXISTING / NEW — COMBINATION FIRE/SMOKE DAMPER (VERTICAL)
	EXISTING / NEW — COMBINATION FIRE/SMOKE DAMPER (HORIZONTAL)
S	DUCT MOUNTED SMOKE DETECTOR
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FD	FIRE DEPARTMENT COMMUNICATION OUTLET
FS	FLOW SWITCH
H	HEAT DETECTOR
I/O	INPUT/OUTPUT CONTROL MODULE
DH	MAGNETIC DOOR HOLDER
F	MANUAL PULL STATION
S S	SMOKE DETECTOR - WALL MOUNTED, CEILING MOUNTED
S	SMOKE DETECTOR WITH AUDIO
TS	TAMPER SWITCH
C	VISUAL DEVICE - CEILING MOUNTED
F	VISUAL DEVICE - WALL MOUNTED

NOTES:

1. DRAWINGS INDICATE DESIGN INTENT ONLY. FINAL LOCATIONS AND DEVICE SPECIFICATIONS SHALL BE PROVIDED BY FIRE ALARM MANUFACTURER. REFER TO PROJECT SPECIFICATIONS FOR APPROVED MANUFACTURERS.
2. FIRE DETECTION AND SIGNALING DEVICES ARE SHOWN FOR COORDINATION PURPOSES. FINAL SYSTEM DESIGN TO BE PERFORMED BY CONTRACTOR AND SUPPLIER FOR OFFICIAL SUBMISSION. COORDINATE ALL DEVICE QUANTITIES AND LOCATIONS WITH SUPPLIER PRIOR TO INSTALLATION. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY PATHWAYS, POWER SUPPLIES AND DEVICES PER SUPPLIER CONTRACT DOCUMENTS.

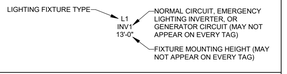
ELECTRICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
A	AMPERE
AC	ABOVE COUNTER
AF	AMPERE FUSE/AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AIC	AVAILABLE INTERRUPTING CURRENT (AMPS)
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
CB	CIRCUIT BREAKER
C	CONDUIT OR CEILING MOUNTED
CU	COPPER
CT	CURRENT TRANSFORMER
DIA	DIAMETER
DISC	DISCONNECT
EWC	ELECTRIC WATER COOLER
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
(E)	EXISTING ELECTRICAL EQUIPMENT/WORK TO REMAIN
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
F	FUSE
G/GND	GROUND
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
IG	ISOLATED GROUND
INV	INVERTER
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LP	LIGHTING PANEL
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MAX	MAXIMUM
MIN	MINIMUM
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
N/NEU	NEUTRAL
NF	NON-FUSIBLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
PH/Ø	PHASE
P	POLE
PVC	POLYVINYL CHLORIDE (PLASTIC)
PF	POWER FACTOR
(R)	RELOCATED EXISTING ELECTRICAL EQUIPMENT
RP	RECEPTACLE PANEL
(RR)	REMOVE AND REINSTALL
RMC	RIGID METALLIC CONDUIT
TBB	TELEPHONE BACKBOARD
XFMR	TRANSFORMER
TYP	TYPICAL
UC	UNDERCOUNTER
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT AMPERE
W	WATT
WP	WEATHERPROOF
WG	WIRE GUARD

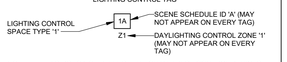
DRAWING NOTATION

SYMBOL	DESCRIPTION
1	CONSTRUCTION KEYNOTE NUMBER 1
1	DEMOLITION KEYNOTE NUMBER 1
20	COPPER FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE)
20	ALUMINUM FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE)
EQUIPMENT	EQUIPMENT TAG
	EXISTING DEVICES OR EQUIPMENT
	NEW OR MODIFIED DEVICES OR EQUIPMENT
	NEW OR MODIFIED UNDERGROUND WIRING
	EXISTING SYSTEM COMPONENT TO BE REMOVED
	POINT OF NEW CONNECTION.

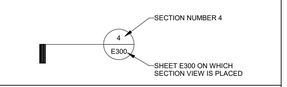
LIGHTING FIXTURE TAG

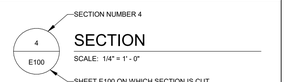


LIGHTING CONTROL TAG



NOTE: THE TAG DOES NOT REFLECT THE QUANTITY OF CONTROL DEVICES REQUIRED IN AREA.





LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
$L	LIGHT CONTROL LOCATION
$	SWITCH - SINGLE POLE
$3	SWITCH - THREE WAY
$4	SWITCH - FOUR WAY

DRAWING INDEX

SHEET NO	DESCRIPTION
E-000	ELECTRICAL GENERAL INFORMATION
E-001	LIGHTING SCHEDULES
ELD102.1	LIGHTING DEMOLITION PLAN-SECOND LEVEL-ZONE 1
EPD102.1	POWER DEMOLITION PLAN-SECOND LEVEL-ZONE 1
ETD102.1	TECHNOLOGY DEMOLITION PLAN-SECOND LEVEL-ZONE 1
EL102.1	LIGHTING PLAN-SECOND LEVEL-ZONE 1
EL102.1A	LIGHTING PLAN-SECOND LEVEL-ZONE 1A
EL102.1B	LIGHTING PLAN-SECOND LEVEL-ZONE 1B
EL102.1C	LIGHTING PLAN-SECOND LEVEL-ZONE 1C
EL102.1D	LIGHTING PLAN-SECOND LEVEL-ZONE 1D
EP102.1	POWER PLAN-SECOND LEVEL-ZONE 1
EP102.1A	POWER PLAN-SECOND LEVEL-ZONE 1A
EP102.1B	POWER PLAN-SECOND LEVEL-ZONE 1B
EP102.1C	POWER PLAN-SECOND LEVEL-ZONE 1C
EP102.1D	POWER PLAN-SECOND LEVEL-ZONE 1D
ET102.1	TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1
ET102.1A	TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1A
ET102.1B	TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1B
ET102.1C	TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1C
ET102.1D	TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1D
E-300	ELECTRICAL ELEVATIONS
E-500	ELECTRICAL DETAILS
E-501	ELECTRICAL DETAILS
E-600	PANEL SCHEDULES
E-702	LOW VOLTAGE RISER DIAGRAM

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS (REVISED)	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL GENERAL INFORMATION

Phase: 100% BID DOCUMENTS

Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC

Project Number: 553-21-100

Building Number:

Approved:

FULLY SPRINKLERED

Location: DETROIT, MI

Issue Date: 10-JAN-2025

Checked: SET

Drawn: FKU

Drawing Number: E-000

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VA FORM 08 - 6231

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER (BASIS OF DESIGN)	MODEL	WATTAGE	LUMENS	VOLTAGE	CCT	CRI	REMARKS
L1	2'x4' LED LAY-IN ARCHITECTURAL TROFFER, ALUMINUM HOUSING, 0-10V DIMMING, WHITE FINISH	LITHONIA LIGHTING	2RTL4 SERIES	39 W	MINIMUM 4000	MVOLT	3500K	80	
L1A	2'x4' LED RECESSED ARCHITECTURAL TROFFER, ALUMINUM HOUSING, 0-10V DIMMING, WHITE FINISH, DRYWALL FLANGE KIT	LITHONIA LIGHTING	2RTL4 SERIES	70 W	MINIMUM 7000	MVOLT	3500K	80	
L2	2'x2' LED LAY-IN ARCHITECTURAL TROFFER, ALUMINUM HOUSING, 0-10V DIMMING, WHITE FINISH	LITHONIA LIGHTING	2RTL2 SERIES	41 W	MINIMUM 4000	MVOLT	3500K	80	
L3	2'x4' LED LAY-IN ARCHITECTURAL TROFFER, ALUMINUM HOUSING, 0-10V DIMMING, WHITE FINISH	LITHONIA LIGHTING	2RTL4 SERIES	29 W	MINIMUM 3000	MVOLT	3500K	80	
L4	2'x4' LED RECESSED TROFFER, PRISMATIC LENS, ALUMINUM HOUSING, 0-10V DIMMING, WHITE FINISH	LITHONIA LIGHTING	2GTL4 SERIES	30 W	MINIMUM 4000	MVOLT	3500K	80	
L5	4" DIAMETER LED RECESSED DOWNLIGHT, ALUMINUM HOUSING, 0-10V DIMMING, WHITE TRIM	GOTHAM LIGHTING	EVO4 SERIES	14 W	MINIMUM 1200	MVOLT	3500K	85	
L6	4" DIAMETER LED RECESSED DOWNLIGHT, ALUMINUM HOUSING, 0-10V DIMMING, WHITE TRIM	GOTHAM LIGHTING	EVO4 SERIES	9 W	MINIMUM 1000	MVOLT	3500K	85	
L7	4" SQUARE LED RECESSED DOWNLIGHT, ALUMINUM HOUSING, 0-10V DIMMING, WHITE TRIM	GOTHAM LIGHTING	EVO4 SERIES	14 W	MINIMUM 1200	MVOLT	3500K	80	
L8	LED LINEAR TAPE LIGHT, 0-10V DIMMING. PROVIDE HOUSING AND MOUNTING HARDWARE.	QT LIGHTING	SD-SW24/2.0	36 W	MIMIMUM 1500	MVOLT	3500K	80	2W/FT. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION INFORMATION.
L9	LED LINEAR UNDERCABINET LUMINAIRE 46" FOR HEALTHCARE LIGHTING, 20 G STEEL HOUSING, WHITE ANTIMICROBIAL PAINT, 0-10V DIMMING	HEALTHCARE LIGHTING	HUC SERIES	26 W	MINIMUM 2600	MVOLT	3500K	80	
L9A	LED LINEAR UNDERCABINET LUMINAIRE 35" FOR HEALTHCARE LIGHTING, 20 G STEEL HOUSING, WHITE ANTIMICROBIAL PAINT, 0-10V DIMMING	HEALTHCARE LIGHTING	HUC SERIES	20 W	MINIMUM 1900	MVOLT	3500K	80	
L14	2'x2' LED CLEANROOM TROFFER, ALUMINUM HOUSING, 0-10V DIMMING, INTERGRAL SURGE SUPPRESSION, ANTIMICROBIAL, WHITE, DRYWALL FLANGE KIT	LITHONIA LIGHTING	SRTL SERIES	42 W	MINIMUM 4500	MVOLT	3500K	80	
L15	2'x2' LED CLEANROOM TROFFER, ALUMINUM HOUSING, 0-10V DIMMING, INTERGRAL SURGE SUPPRESSION, ANTIMICROBIAL, WHITE, DRYWALL FLANGE KIT	LITHONIA LIGHTING	SRTL SERIES	61 W	MINIMUM 7000	MVOLT	3500K	80	
L16	2'x4' LED CLEANROOM TROFFER, ALUMINUM HOUSING, 0-10V DIMMING, INTERGRAL SURGE SUPPRESSION, ANTIMICROBIAL, WHITE, DRYWALL FLANGE KIT	LITHONIA LIGHTING	SRTL SERIES	59 W	MINIMUM 7000	MVOLT	3500K	80	
L17	1'x4' LED CLEANROOM TROFFER, ALUMINUM HOUSING, 0-10V DIMMING, INTERGRAL SURGE SUPPRESSION, ANTIMICROBIAL, WHITE, DRYWALL FLANGE KIT	LITHONIA LIGHTING	SRTL SERIES	27 W	MINIMUM 3000	MVOLT	3500K	80	
L18	1'x4' LED CLEANROOM TROFFER, ALUMINUM HOUSING, 0-10V DIMMING, INTERGRAL SURGE SUPPRESSION, ANTIMICROBIAL, WHITE, DRYWALL FLANGE KIT	LITHONIA LIGHTING	SRTL SERIES	44 W	MINIMUM 5000	MVOLT	3500K	80	
L19	1.25" x 1.25" x 8'. DIRECT LINEAR, SUSPENSION MOUNTED WITH MEDIUM DISTRIBUTION, INTEGRAL CANOPY DRIVER, TEXTURED WHITE	INSIGHT LIGHTING	STRUCTURE MINI	32 W	MINIMUM 2800	MVOLT	3500K	80	
L20	1.25" x 1.25" x 4'. DIRECT LINEAR, SUSPENSION MOUNTED WITH MEDIUM DISTRIBUTION, INTEGRAL CANOPY DRIVER, TEXTURED WHITE	INSIGHT LIGHTING	STRUCTURE MINI	16 W	MINIMUM 1400	MVOLT	3500K	80	
L21	4' x 4" RECESSED LINEAR	BASIO	PANO 5.25 SERIES	30 W	MINIMUM 3100	MVOLT	3500K	80	
L22	4' INVERTED V SHAPED LINEAR PENDANT WITH ANTI-GLARE TECHNOLOGY	FLUXWERX	FOLD (FD1)	19 W	MINIMUM 1900	MVOLT	3500K	80	
L23	6' INVERTED V SHAPED LINEAR PENDANT WITH ANTI-GLARE TECHNOLOGY	FLUXWERX	FOLD (FD1)	29 W	MINIMUM 2900	MVOLT	3500K	80	
L24	8' INVERTED V SHAPED LINEAR PENDANT WITH ANTI-GLARE TECHNOLOGY	FLUXWERX	FOLD (FD1)	38 W	MINIMUM 3800	MVOLT	3500K	80	
L25	6" DIAMETER LED RECESSED DOWNLIGHT, ALUMINUM HOUSING, 0-10V DIMMING, WHITE TRIM	KENALL	INDIGO-CLEAN	29 W	MINIMUM 1600	MVOLT	3500K	85	PROVIDE WITH CONTINUOUS ENVIRONMENTAL DISINFECTION SYSTEM
L26	2'x4' LED RECESSED TROFFER, DR ACRYLIC LAMP SHIELD, STEEL HOUSING, 0-10V DIMMING, WHITE FINISH, DRYWALL FLANGE KIT	KENALL	INDIGO-CLEAN	75 W	MINIMUM 8000	MVOLT	3700K	80	PROVIDE WITH CONTINUOUS ENVIRONMENTAL DISINFECTION SYSTEM
L27	2'x4' LED LAY-IN ARCHITECTURAL TROFFER, ALUMINUM HOUSING, 0-10V DIMMING, WHITE FINISH	LITHONIA LIGHTING	2RTL4 SERIES	71 W	MINIMUM 6500	MVOLT	3500K	80	
X1	EDGE LIT LED EXIT SIGN. RECESSED, CEILING MOUNTED EDGE-LIT LED EXIT SIGN SINGLE FACE WITH RED LETTERING ON MIRRORED PANEL. UNIVERSAL DIRECTIONAL INDICATORS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS.	LITHONIA LIGHTING	EDGR SERIES	3 W	-	MVOLT	-	-	REFER TO PLANS FOR MOUNTING STYLE, DIRECTIONAL ARROWS, AND NUMBER OF FACES.
X2	EDGE LIT LED EXIT SIGN. RECESSED, CEILING MOUNTED EDGE-LIT LED EXIT SIGN DOUBLE FACE WITH RED LETTERING ON MIRRORED PANEL. UNIVERSAL DIRECTIONAL INDICATORS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS.	LITHONIA LIGHTING	EDGR SERIES	3 W	-	MVOLT	-	-	REFER TO PLANS FOR MOUNTING STYLE, DIRECTIONAL ARROWS, AND NUMBER OF FACES.

NOTE:
LISTED MANUFACTURER IS BASIS OF DESIGN, CONTRACTOR MAY SELECT OTHER FIXTURE MANUFACTURERS THAT MEET THE CRITERIA AND STYLE OF THE BASIS OF DESIGN AND COMPLY WITH ALL REQUIREMENTS LISTED IN THE SPECIFICATIONS.

LIGHTING CONTROL MATRIX

TAG NUMBER	SPACE TYPE	PARAMETERS: MANUAL ON/OFF SWITCH	DIMMING SWITCH	OVERRIDE SWITCH	MULTI ZONE CONTROL	KEY SWITCH	TIMECLOCK	OCCUPANCY SENSOR	PHOTOCONTROL DIMMING	EXTERIOR PHOTOCELL	COLOR TUNING	RGB/RGBW	BACNET INTEGRATION	SEQUENCE OF OPERATIONS
1	PRIVATE OFFICE, SHARED OFFICE	X	X					X						MANUAL ON/AUTOMATIC OFF WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE (VACANCY MODE). CONTINUOUS DIMMING.
2	OPEN OFFICE, WORK ROOM, NURSE, DOCTOR	X	X					X						MANUAL ON/AUTOMATIC OFF WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE (VACANCY MODE). CONTINUOUS DIMMING.
3	CONFERENCE, MEETING, MULTI-PURPOSE ROOM, TRAINING ROOM	X	X		X			X						MANUAL ON/AUTOMATIC OFF WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE (VACANCY MODE). CONTINUOUS DIMMING.
4	LOBBY/RECEPTION, WAITING	X	X				X	X						LOCAL CONTROL SWITCH WITH ON/OFF AND DIM FUNCTION. AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR OR SCHEDULED TIME FUNCTION. AUTOMATIC PARTIAL OFF TO 50% VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE. SCHEDULED SHUTOFF VIA SCHEDULED TIME FUNCTION.
5	CORRIDOR, PASSAGE			X	X		X	X						LOCAL CONTROL SWITCH WITH ON/OFF FUNCTION. AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR. AUTOMATIC FULL OFF VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE.
6	TOILET	X					X							LOCAL CONTROL SWITCH WITH ON/OFF FUNCTION. AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR. AUTOMATIC FULL OFF VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE.
8	BREAK ROOM/LOCKERS	X	X		X		X							MANUAL ON/AUTOMATIC OFF WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE (VACANCY MODE). CONTINUOUS DIMMING.
9	STORAGE ROOM, CLEAN LINEN, SOILED UTILITY, CLEAN UTILITY	X					X							LOCAL CONTROL SWITCH WITH ON/OFF FUNCTION. AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR. AUTOMATIC FULL OFF VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE.
10	MECH/ELECTRICAL/HAC	X												LOCAL CONTROL SWITCH WITH ON/OFF FUNCTION.
11	EXAM/TREATMENT/INFUSION ROOM	X	X				X							MANUAL ON/AUTOMATIC OFF WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE (VACANCY MODE). CONTINUOUS DIMMING.
12	MED ROOM	X					X							LOCAL CONTROL SWITCH WITH ON/OFF FUNCTION. AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR. AUTOMATIC FULL OFF VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE.
13	REGISTRATION	X					X							LOCAL CONTROL SWITCH WITH ON/OFF FUNCTION. AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR. AUTOMATIC FULL OFF VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE.
14	OBSERVATION ROOM	X	X				X							MANUAL ON/AUTOMATIC OFF WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE (VACANCY MODE). CONTINUOUS DIMMING.

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Location: DETROIT, MI
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Checked: SET
Drawn: FKU
Project Number: 553-21-100
Building Number:
Drawing Number: E-001

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ELECTRICAL DEMOLITION NOTES

1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
2. EXAMINE THE DRAWINGS OF OTHER TRADES, BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES.
3. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION OF DEVICES AND EQUIPMENT REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES.
4. COORDINATE WITH NEW WORK PLANS, ONE LINE, AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
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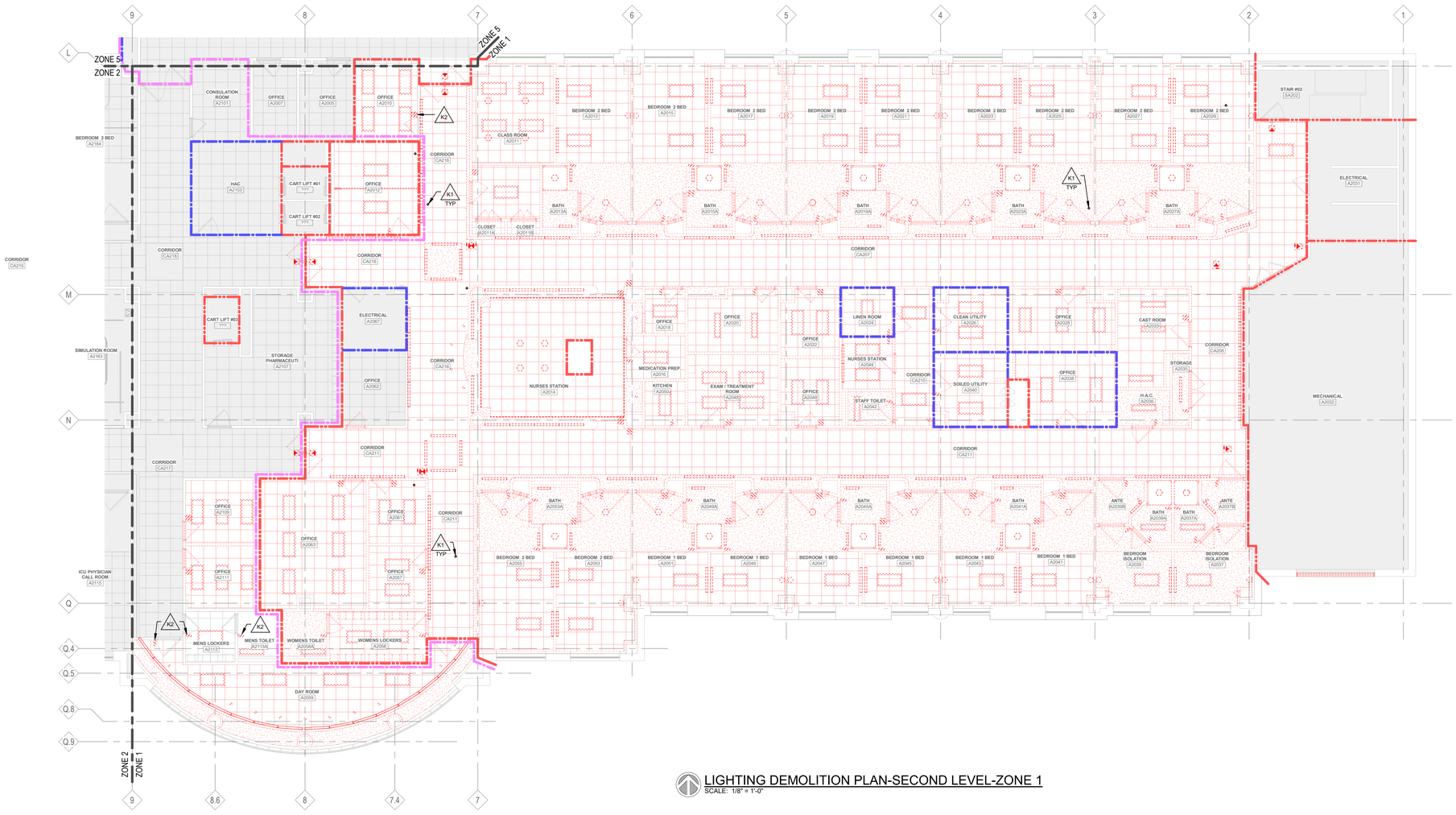
6. REMOVE ALL CONDUIT AND WIRE BACK TO NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
7. WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM DEVICES TO REMAIN, EXTEND CONDUIT AND WIRE AS REQUIRED TO MAINTAIN ELECTRICAL SERVICE.
8. PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED AND WALL REMAINS INTACT. MARK ALL UNUSED CIRCUIT BREAKERS AS "SPARE".
9. CONTRACTOR TO TAG ALL CIRCUITS AT BOTH ENDS AFFECTED BY THIS SCOPE OF WORK.
10. CONTRACTOR SHALL PROVIDE UPDATED, TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS SCOPE OF WORK.
11. CONTRACTOR SHALL VERIFY ALL UNDERGROUND AND IN-SLAB UTILITIES LOCATIONS PRIOR TO SAW CUTTING OR PENETRATING ANY FLOOR SLABS. CONTRACTOR SHALL REPAIR ALL UTILITIES DAMAGED BY SAW CUTTING.

LIGHTING DEMOLITION KEYNOTES

K1 EXISTING STRUCTURAL PENETRATIONS. RE-USE FOR NEW WORK CONDUIT FEEDS.
K2 REMOVE SWITCH AND WIRE BACK TO SOURCE. MAINTAIN SWITCH LOCATION FOR REUSE IN NEW WORK.



LIGHTING DEMOLITION PLAN-SECOND LEVEL-ZONE 1
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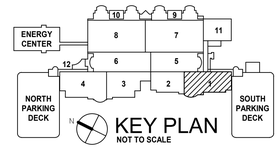

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Building Number:
Drawing Number: ELD102.1

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ELECTRICAL DEMOLITION NOTES

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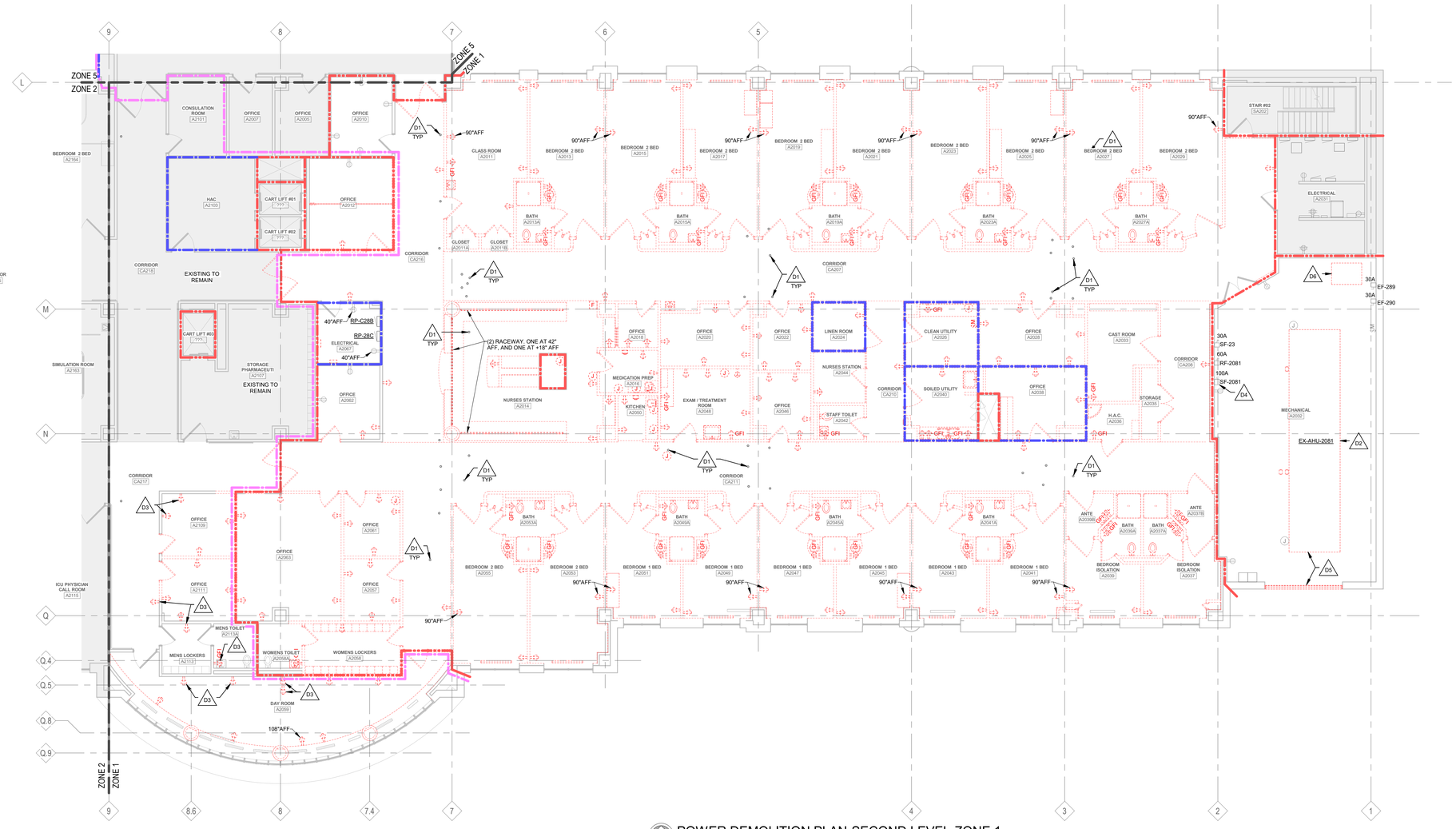
POWER DEMOLITION KEYNOTES

D1 EXISTING STRUCTURAL PENETRATIONS. RE-USE FOR NEW WORK CONDUIT FEEDS.
D2 DISCONNECT AND MAKE SAFE EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED DEVICES FOR AHU-2081 TO BE REMOVED THROUGH LOUVER IN ROOM A2032.
D3 REMOVE EXISTING RECEPTACLE. BUT MAINTAIN LOCATION FOR REUSE IN NEW WORK.
D4 DISCONNECT AND DEMOLISH CONNECTION FROM SF-2081 DISCONNECT AND EQUIPMENT TO BE DEMOLISHED. MAINTAIN DISCONNECT AND FEEDER TO PANEL FOR REUSE IN NEW WORK.
D5 TEMPORARILY DISCONNECT AND REMOVE ALL POWER FEEDS AND ASSOCIATED HANGERS FROM DEMOLISHED AHU'S PATH OF TRAVEL. COORDINATE WITH MECHANICAL TRADES FOR EXACT AREA OF WORK.
D6 DISCONNECT EXISTING PNEUMATIC BLOWER AND ASSOCIATED CONTROLS BACK TO SOURCE. MAINTAIN EQUIPMENT AND ASSOCIATED CONTROLS FOR RELOCATION TO THE THIRD FLOOR IN NEW WORK.



POWER DEMOLITION PLAN-SECOND LEVEL-ZONE 1
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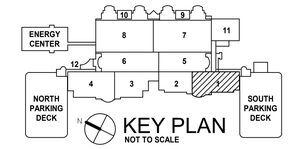

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Drawing Number: EPD102.1

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TECHNOLOGY DEMOLITION NOTES

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TECHNOLOGY DEMOLITION KEYNOTES

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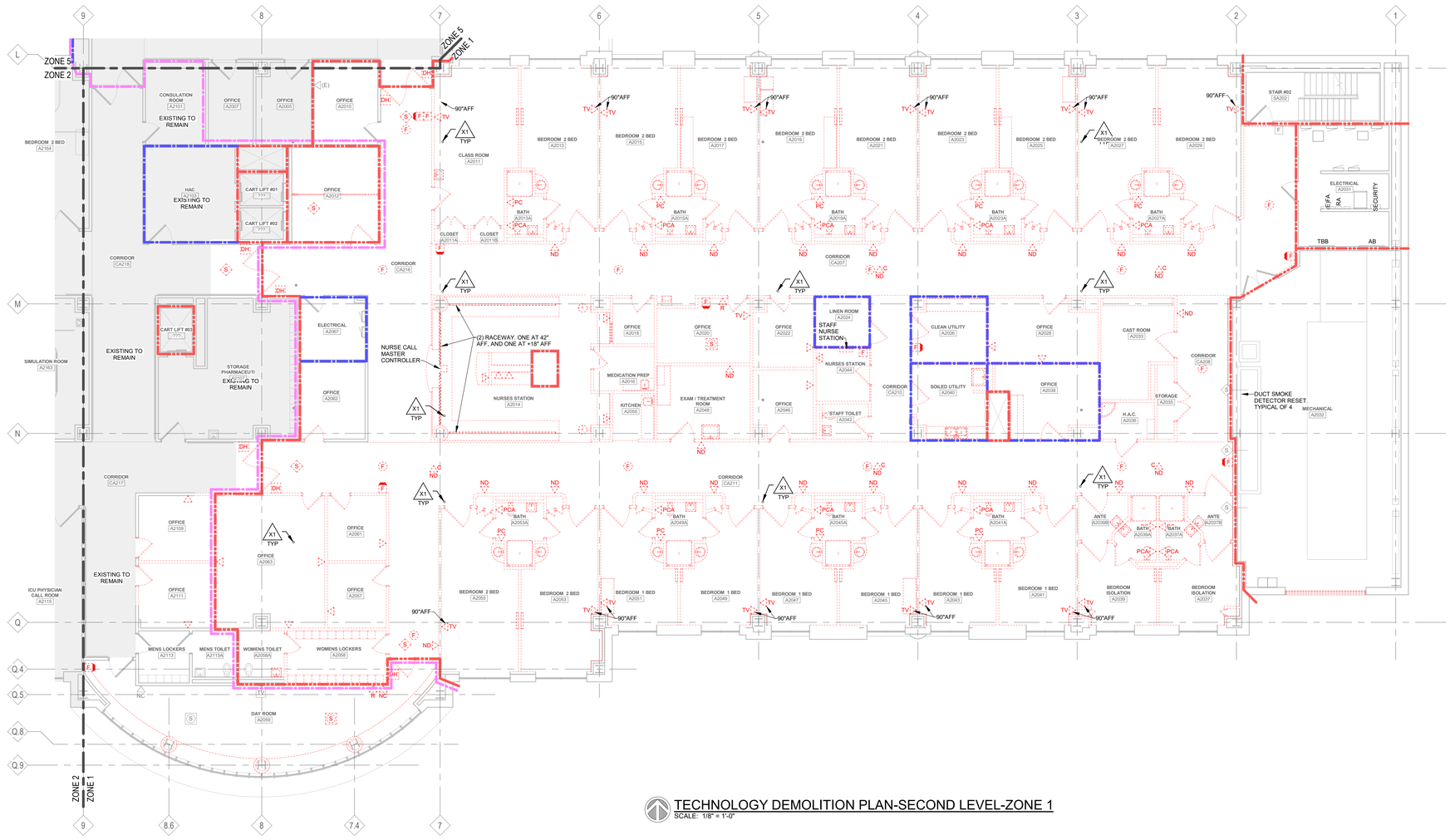

TECHNOLOGY DEMOLITION PLAN-SECOND LEVEL-ZONE 1
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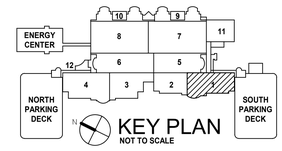

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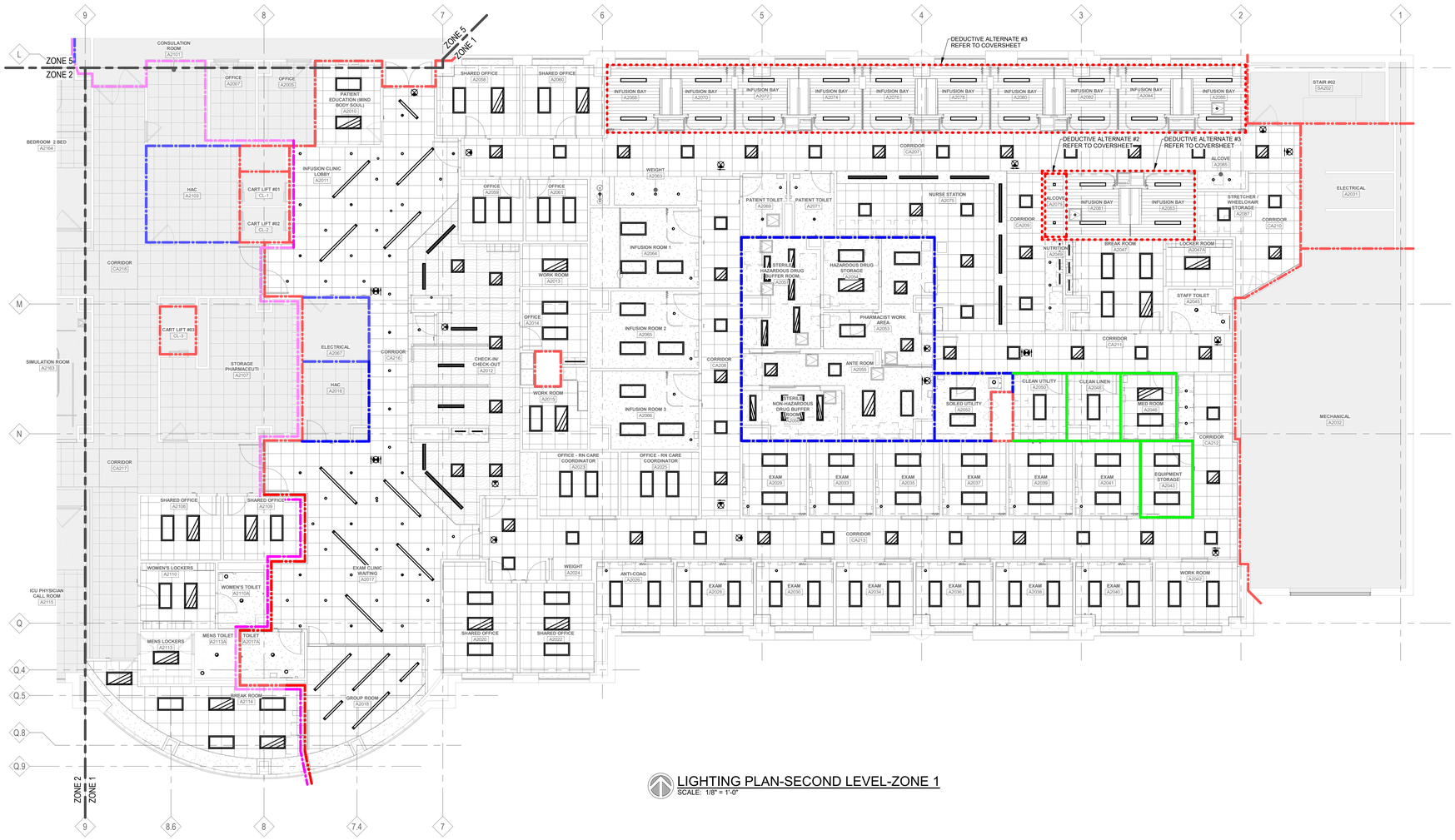


LIGHTING PLAN-SECOND LEVEL-ZONE 1
SCALE: 1/8" = 1'-0"

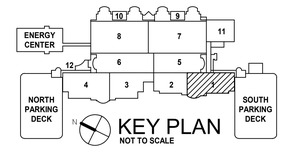
PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
2. EXIT LIGHTS AND EMERGENCY BATTERY UNITS SHALL BE UNCONTROLLED AND TIED AHEAD OF LOCAL AREA LIGHTING SWITCH, UNLESS CIRCUITED OTHERWISE.
3. WHERE MORE THAN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
4. ALL POWER PACKS TO BE LOCATED DIRECTLY ABOVE SWITCH.
5. LIGHT FIXTURES ARE LOOPED TOGETHER TO INDICATE CONTROL ZONE GROUPS. CONNECTED FIXTURES ARE TO BE CONTROLLED TOGETHER. CIRCUITS MAY BE SHARED AMONG SEPARATE CONTROL ZONE GROUPS. MULTIPLE ZONES ZONES MAY BE COMBINED IN SOFTWARE TO FORM SCENES. SEE LIGHTING CONTROL MATRIX: SCENE SCHEDULE (IF PROVIDED), AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.
7. PROVIDE EXAM ROOM LIGHT SWITHCES WITHIN 8" OF THE DOOR FRAME.



KEY PLAN
NOT TO SCALE

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Project Number: 553-21-100
Building Number:
Drawing Number: EL102.1

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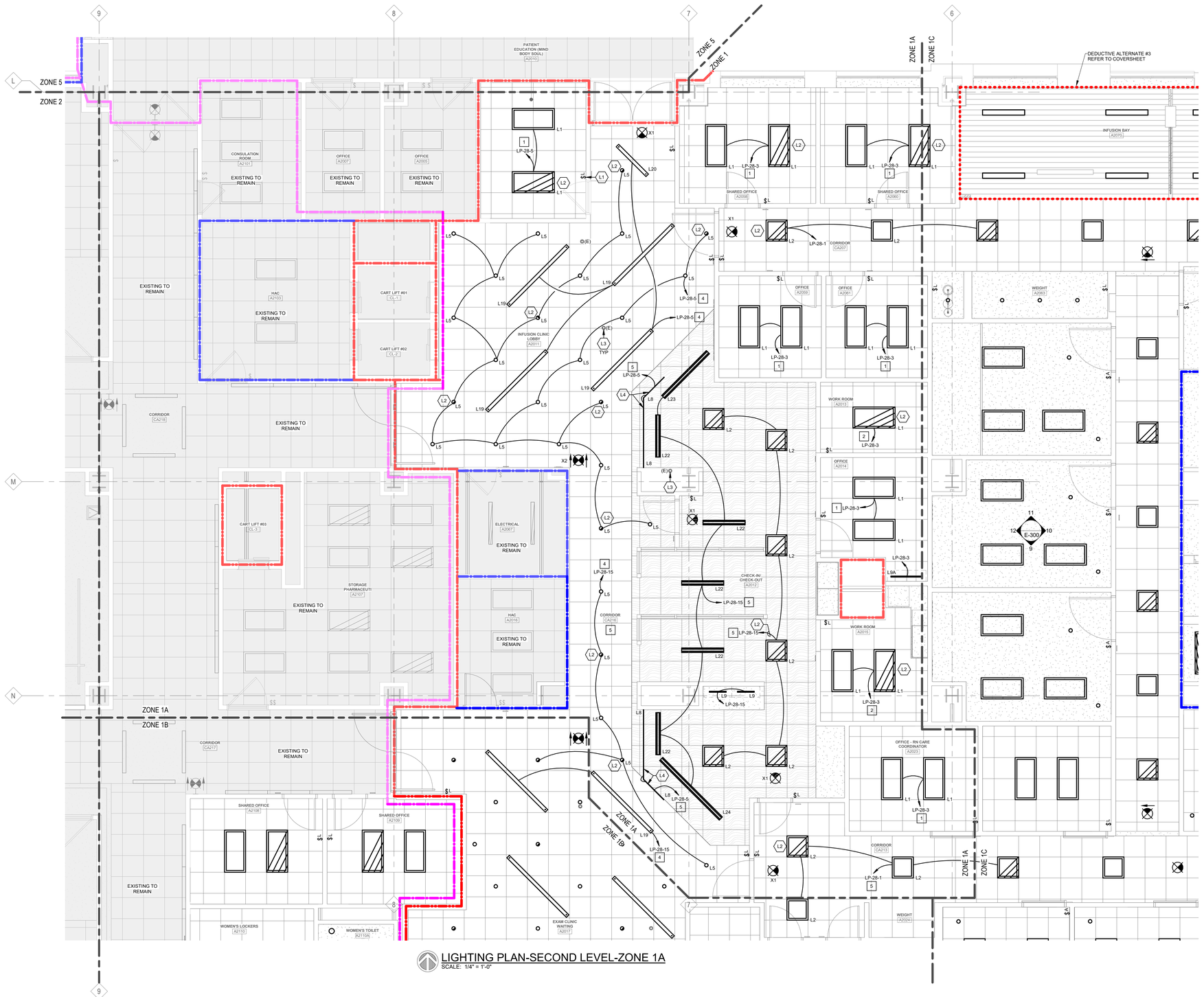


LIGHTING PLAN-SECOND LEVEL-ZONE 1A
SCALE: 1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

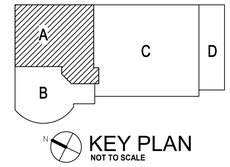
NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
2. EXIT LIGHTS AND EMERGENCY BATTERY UNITS SHALL BE UNCONTROLLED AND TIED AHEAD OF LOCAL AREA LIGHTING SWITCH, UNLESS CIRCUITED OTHERWISE.
3. WHERE MORE THAN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
4. ALL POWER PACKS TO BE LOCATED DIRECTLY ABOVE SWITCH.
5. LIGHT FIXTURES ARE LOOPED TOGETHER TO INDICATE CONTROL ZONE GROUPS. CONNECTED FIXTURES ARE TO BE CONTROLLED TOGETHER. CIRCUITS MAY BE SHARED AMONG SEPARATE CONTROL ZONE GROUPS. MULTIPLE ZONES ZONES MAY BE COMBINED IN SOFTWARE TO FORM SCENES. SEE LIGHTING CONTROL MATRIX: SCENE SCHEDULE (IF PROVIDED), AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.
7. PROVIDE EXAM ROOM LIGHT SWITHCES WITHIN 8" OF THE DOOR FRAME.

LIGHTING KEYNOTES

L1 REUSE EXISTING SWITCH LOCATION.
L2 PROVIDE UL924 LISTED GENERATOR/EMERGENCY TRANSFER DEVICE FOR LUMINAIRE OR CIRCUIT. RE-USE EXISTING EM CIRCUIT LP-C2B-1 UNLESS NOTED OTHERWISE.
L3 EXISTING STRUCTURAL PENETRATIONS. RE-USE FOR NEW WORK CONDUIT FEEDS.
L4 PROVIDE NOTED LIGHT FIXTURE IN MILLWORK. COORDINATE WITH MILLWORK CONTACTOR AND ARCHITECTURAL DRAWINGS. LOCATE REMOTE DRIVERS IN AN ACCESSIBLE LOCATION UNDER DESK AND ADJACENT TO POWER FEED.



KEY PLAN
NOT TO SCALE

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS (REVISED)	27-AUG-2024
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Drawing Title: LIGHTING PLAN-SECOND LEVEL-ZONE 1A
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: SET
Drawn: FKU
Project Number: 553-21-100
Building Number:
Drawing Number: EL102.1A

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LIGHTING PLAN-SECOND LEVEL-ZONE 1B
SCALE: 1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

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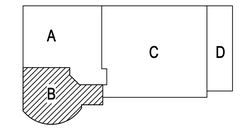

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Location: DETROIT, MI
Issue Date: 10-JAN-2025
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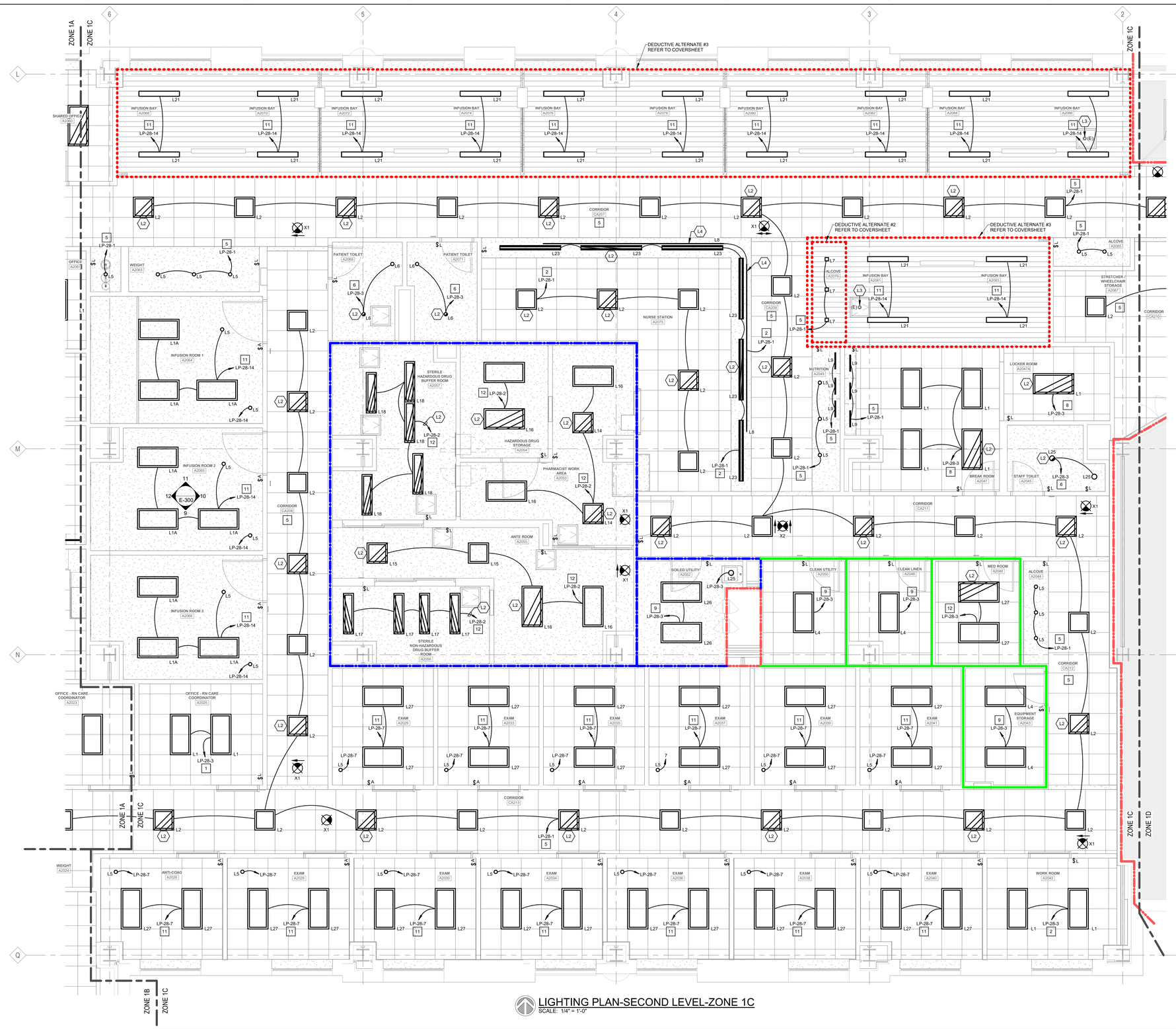

LIGHTING PLAN-SECOND LEVEL-ZONE 1C
SCALE: 1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

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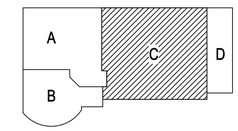

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Drawing Title: LIGHTING PLAN-SECOND LEVEL-ZONE 1C
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Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
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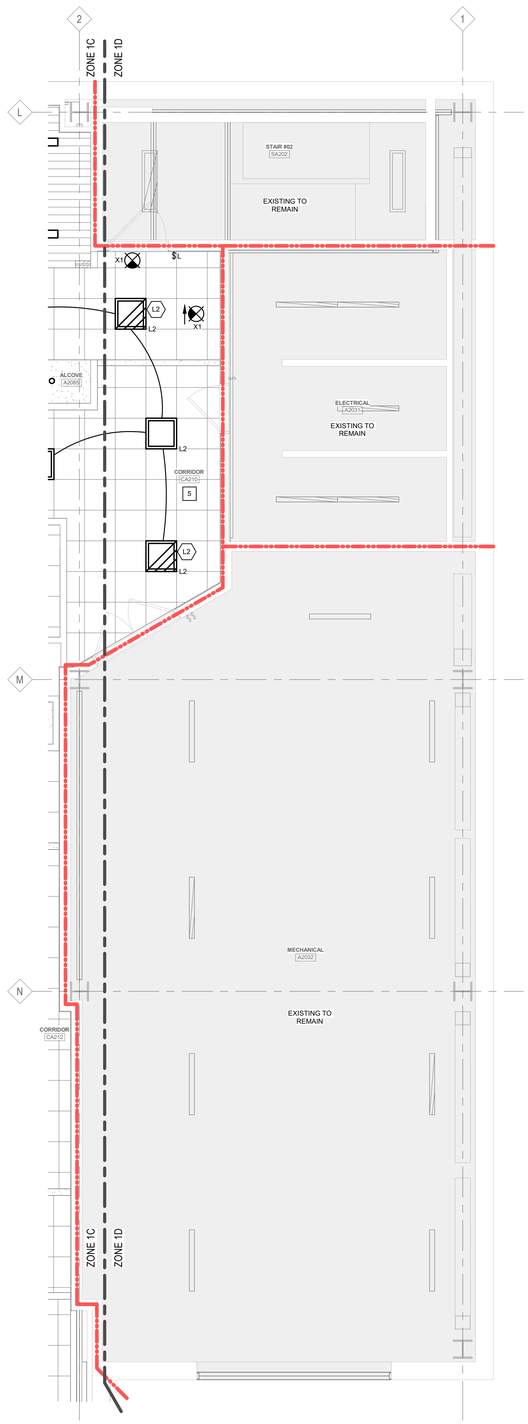

LIGHTING PLAN-SECOND LEVEL-ZONE 1D
SCALE: 1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

- NON-RATED SMOKE PARTITION
- EXISTING NON-RATED SMOKE PARTITION
- 1-HR. SMOKE BARRIER
- EXISTING 1-HR. SMOKE BARRIER
- 1-HR. FIRE BARRIER
- EXISTING 1-HR. FIRE BARRIER
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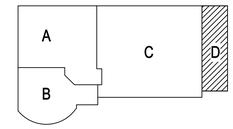
L3 EXISTING STRUCTURAL PENETRATIONS. RE-USE FOR NEW WORK CONDUIT FEEDS.
L4 PROVIDE NOTED LIGHT FIXTURE IN MILLWORK. COORDINATE WITH MILLWORK CONTACTOR AND ARCHITECTURAL DRAWINGS. LOCATE REMOTE DRIVERS IN AN ACCESSIBLE LOCATION UNDER DESK AND ADJACENT TO POWER FEED.



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Location: DETROIT, MI
Issue Date: 10-JAN-2025
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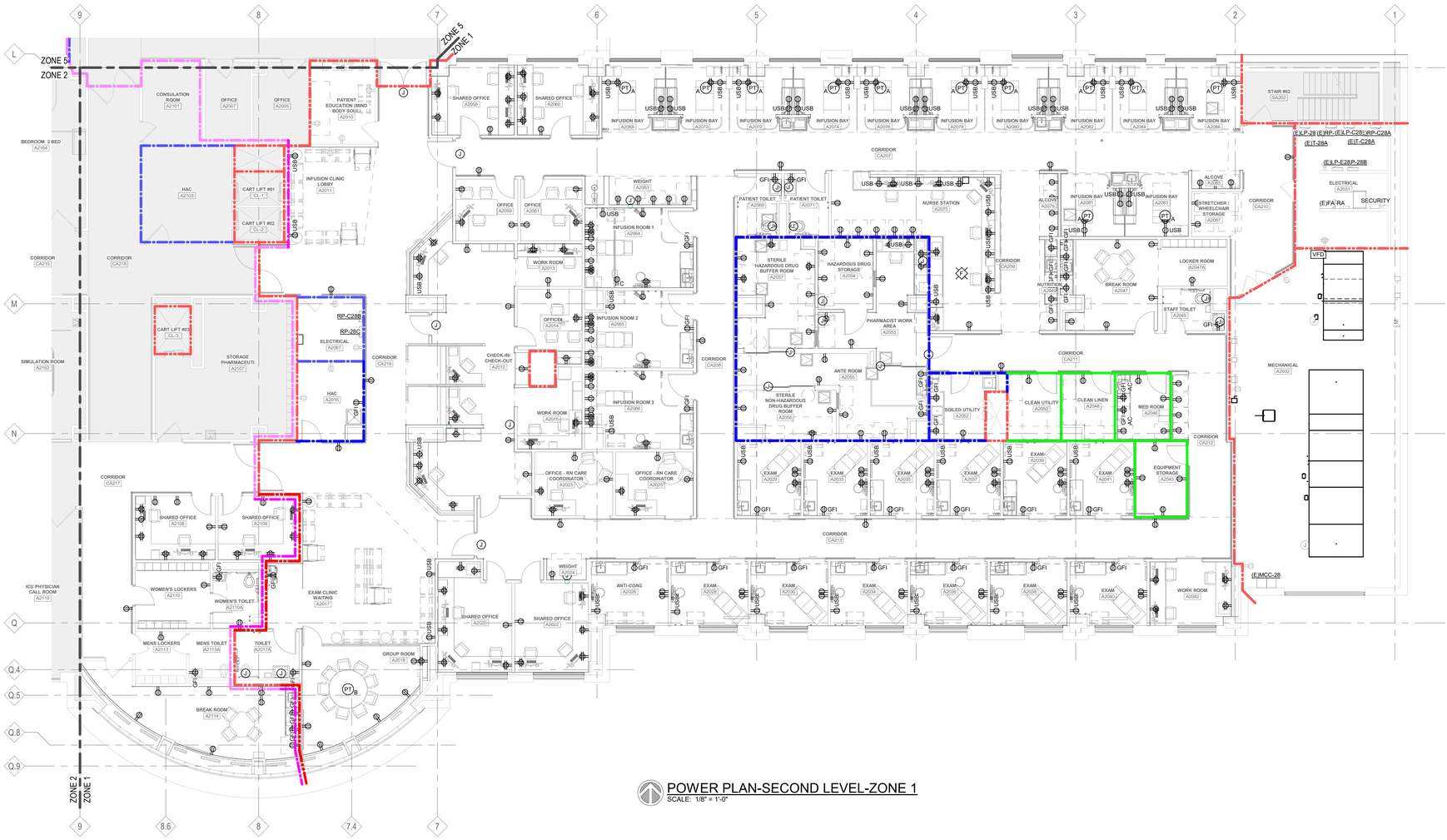


POWER PLAN-SECOND LEVEL-ZONE 1
SCALE: 1/8" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

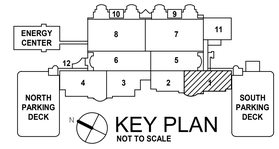
NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

POWER GENERAL NOTES

1. ALL RECEPTACLES ON EXTERIOR, IN KITCHEN, IN CONCESSION, IN LABORATORY, AND WITHIN 6'-0" OF SINK OR OTHER WATER SUPPLY SHALL BE READILY ACCESSIBLE GFCI TYPE RECEPTACLE.
2. REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATIONS TO VERIFY LOCATION OF DEVICES.
3. ALL CONDUITS SERVING 120 VOLTS OR GREATER SHALL INCLUDE A GROUND WIRE.
4. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.
5. ALL 120 VOLT CIRCUITS SHALL UTILIZE A SEPARATE NEUTRAL.
6. RECEPTACLES INSTALLED IN ELEVATOR HOISTWAY(S), ELEVATOR MACHINE ROOM(S), CONTROL ROOM(S)/SPACE(S) SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE (GFCI) WITH THE EXCEPTION OF A DEDICATED SINGLE PHASE RECEPTACLE SUPPLYING AN ELEVATOR PIT SUMP PUMP SHALL NOT BE A GFCI TYPE RECEPTACLE.
7. ALL BRANCH CIRCUITS THAT SUPPLY 125-V SINGLE PHASE, 15 AND 20 AMP OUTLETS TO BE INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, RECREATION ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER; COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.

POWER KEYNOTES

R1 MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. NO ELECTRICAL CONNECTION IS REQUIRED.
R2 POWER FOR DOOR HARDWARE. PROVIDE CONDUIT PATHWAY TO CONTROLLER FROM HANDWAVE STATIONS.
R3 PROVIDE CONNECTION POINTS FOR ELECTRONIC TOILET FLUSH VALVES AND LAVATORY FAUCETS.
R4 SAWCUT FLOOR FOR NEW ROUTED CONDUIT FROM BELOW SLAB, INTO WALL CAVITY, UP TO 53" AFF. PROVIDE A 5-GANG JUNCTION BOX MOUNTED AT 53" TO CENTER OF BOX FOR SCALE DISPLAY AND CONTROLS.
R5 CIRCUIT RELOCATED PNEUMATIC BLOWER AS INDICATED. PROVIDE 120V CONTROLS CIRCUIT FROM PANEL RP-C38A. COORDINATE WITH MECHANICAL TRADES.
R6 PROVIDE NEW OUTLET AND COVER PLATE AT EXISTING ELECTRICAL DEVICE TO REMAIN.
R7 REUSE EXISTING 480V-3PH, 100A DISCONNECT AND FEEDER. PROVIDE NEW CONNECTION FROM NEW SF-2081 TO DISCONNECT. PROVIDE NEW 70A BREAKER.
R8 PROVIDE POWER FOR DOOR HARDWARE. REFER TO DETAIL ON E-500.
R9 EXISTING STRUCTURAL PENETRATIONS. RE-USE FOR NEW WORK CONDUIT FEEDS.
R10 PROVIDE CONDUIT ROUTED DOWN WALL AND INTO MILLWORK CAVITY. COORDINATE ROUTING IN FIELD AND WITH MILLWORK CONTRACTOR.
R11 PROVIDE NEW RECEPTACLES IN NEW MILLWORK FIN TUBE MILLWORK COVERS. COORDINATE MOUNTING OF CONDUIT INSIDE COVER. ROTATE RECEPTACLES 90 DEGREES, SO THE LONG EDGE IS PARALLEL WITH THE FLOOR.
R12 CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT LOCATED IN ROOM.
R13 PROVIDE CONDUIT AND WIRING FOR PASS-THROUGH. DIRECT CONNECT THROUGH UNDERSIDE WITH FLEXIBLE CONDUIT, RECESSED IN THE WALL CAVITY. COORDINATE INSTALLATION WITH MANUFACTURE INSTALLATION INSTRUCTIONS. PROVIDE LOCKABLE BREAKER FOR DISCONNECTING MEANS.
R14 RECONNECT ALL TEMPORARILY DISCONNECTED FEEDERS AND EQUIPMENT ONCE NEW AHUS HAVE BEEN PLACED AND LOUVERS HAVE BEEN REPLACED.
R15 ELECTRICAL CONTRACTOR SHALL PROVIDE A LOCAL DISCONNECT AT EF-BSC-1 AND EF-BSC-2 ON ROOF. ELECTRICAL CONTRACTOR TO PROVIDE FEED BETWEEN LOCAL DISCONNECT AND STARTERS LOCATED IN THE 7TH FLOOR MECHANICAL ROOM AND BETWEEN THE STARTERS AND MCC-78. PROVIDE VOLTAGE REGULATOR FOR BISECT CABINET FEEDS.
R16 ELECTRICAL CONTRACTOR TO COORDINATE RELOCATION OF EXISTING LIGHT FIXTURES, POWER FEEDS, ETC ON LEVELS TWO THRU SEVEN FOR THE INSTALLATION OF NEW EXHAUST DUCT BY MECHANICAL TRADES. COORDINATE WITH MECHANICAL CONTRACTOR.
R17 LOCATE RECEPTACLE IN AN ACCESSIBLE LOCATION OR PROVIDE GFCI PROTECTION AT BREAKER.
R19 PROVIDE BACKBOX AND CONDUIT FOR CONNECTION TO MED-GAS ALARM BY MECHANICAL TRADES. COORDINATE WITH MED-GAS INSTALLER PRIOR TO ROUGH-IN.
R20 PROVIDE MODULE FOR FIRE SHUTTER TO SHUT UPON ACTIVATION OF FIRE ALARM SYSTEM. LOCATE ABOVE ACCESSIBLE CEILING.



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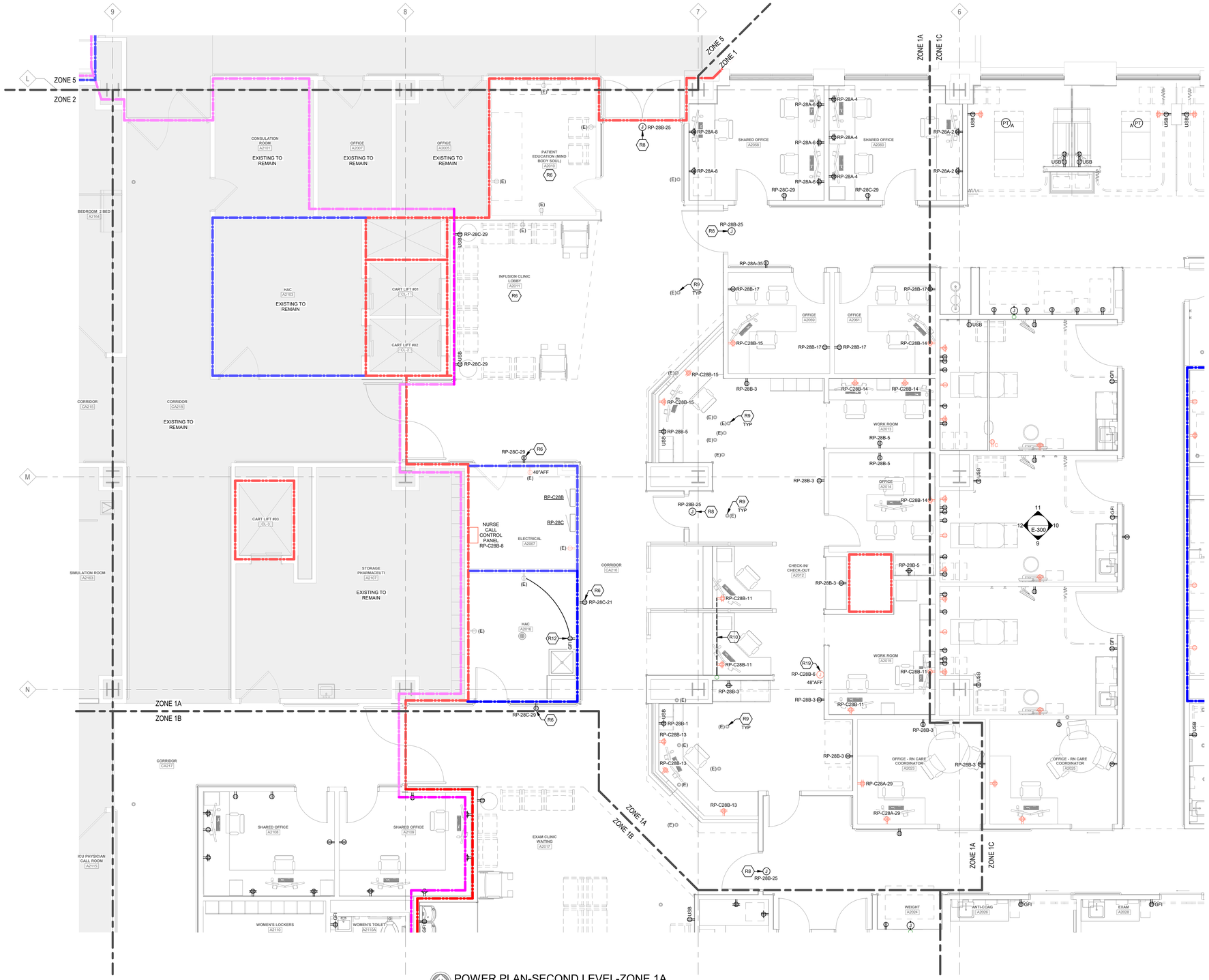

POWER PLAN-SECOND LEVEL-ZONE 1A
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2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN . V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

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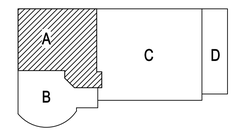

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NOT TO SCALE

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Drawing Title: POWER PLAN-SECOND LEVEL-ZONE 1A
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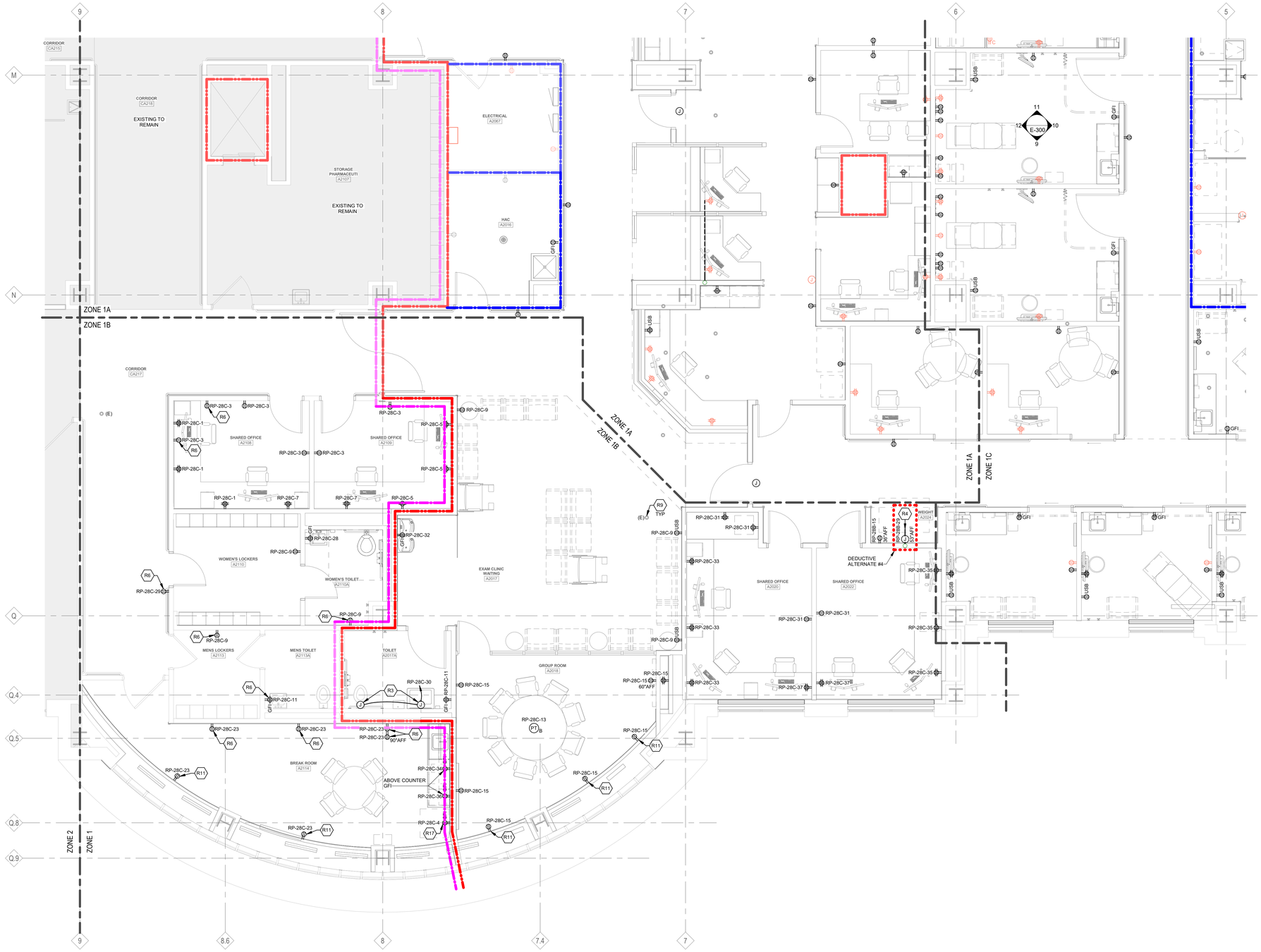

POWER PLAN-SECOND LEVEL-ZONE 1B
SCALE: 1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

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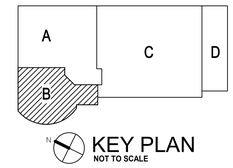

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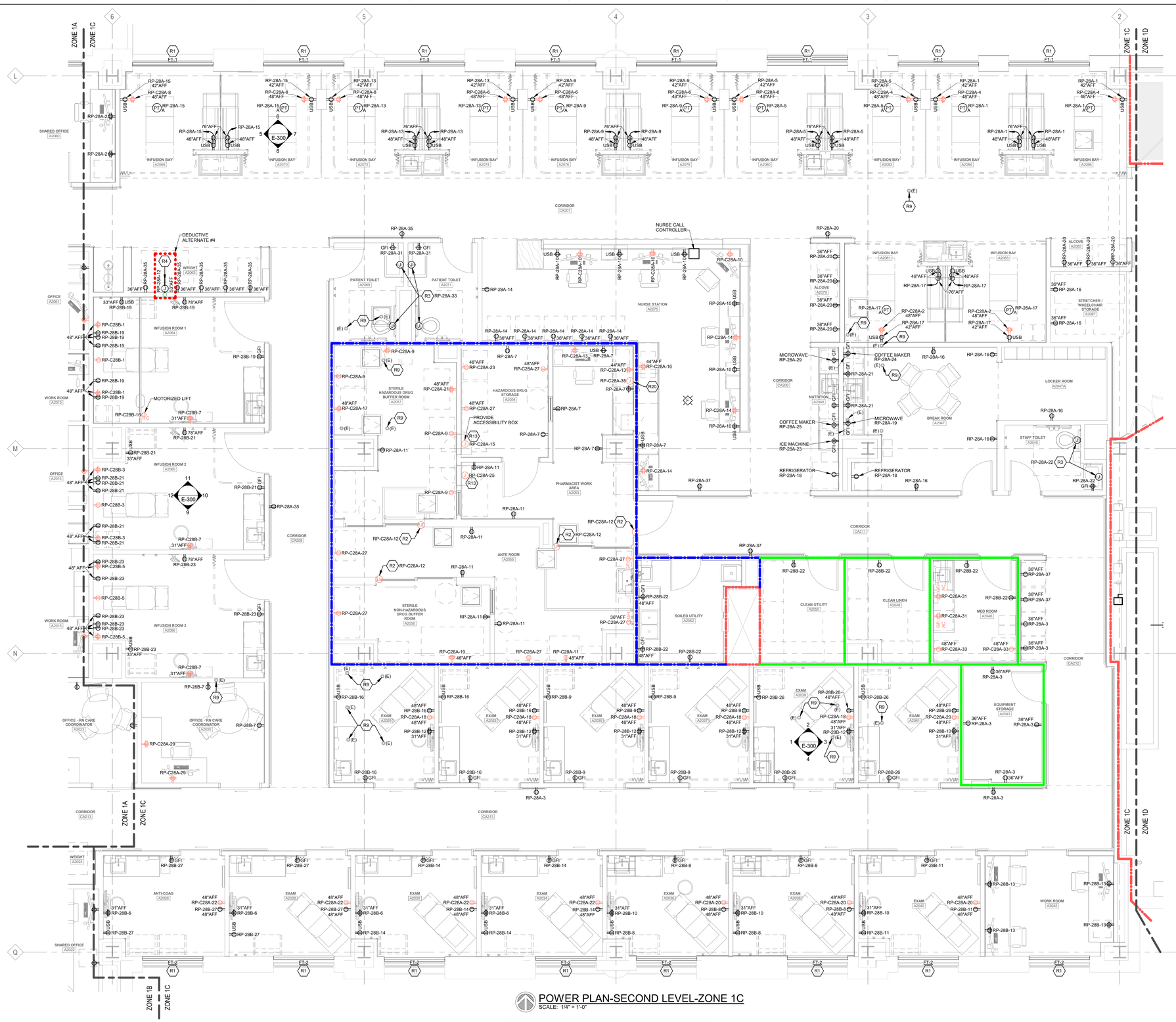

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POWER PLAN-SECOND LEVEL-ZONE 1C

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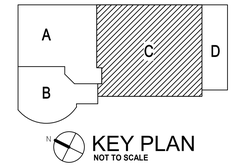

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Drawing Number: EP102.1C

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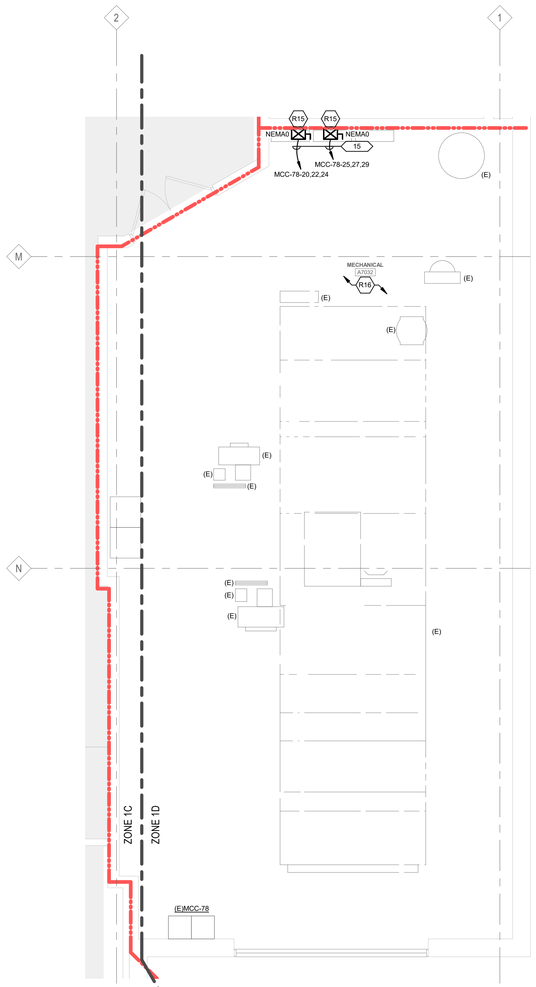
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MECHANICAL
A0102
R16
(E)
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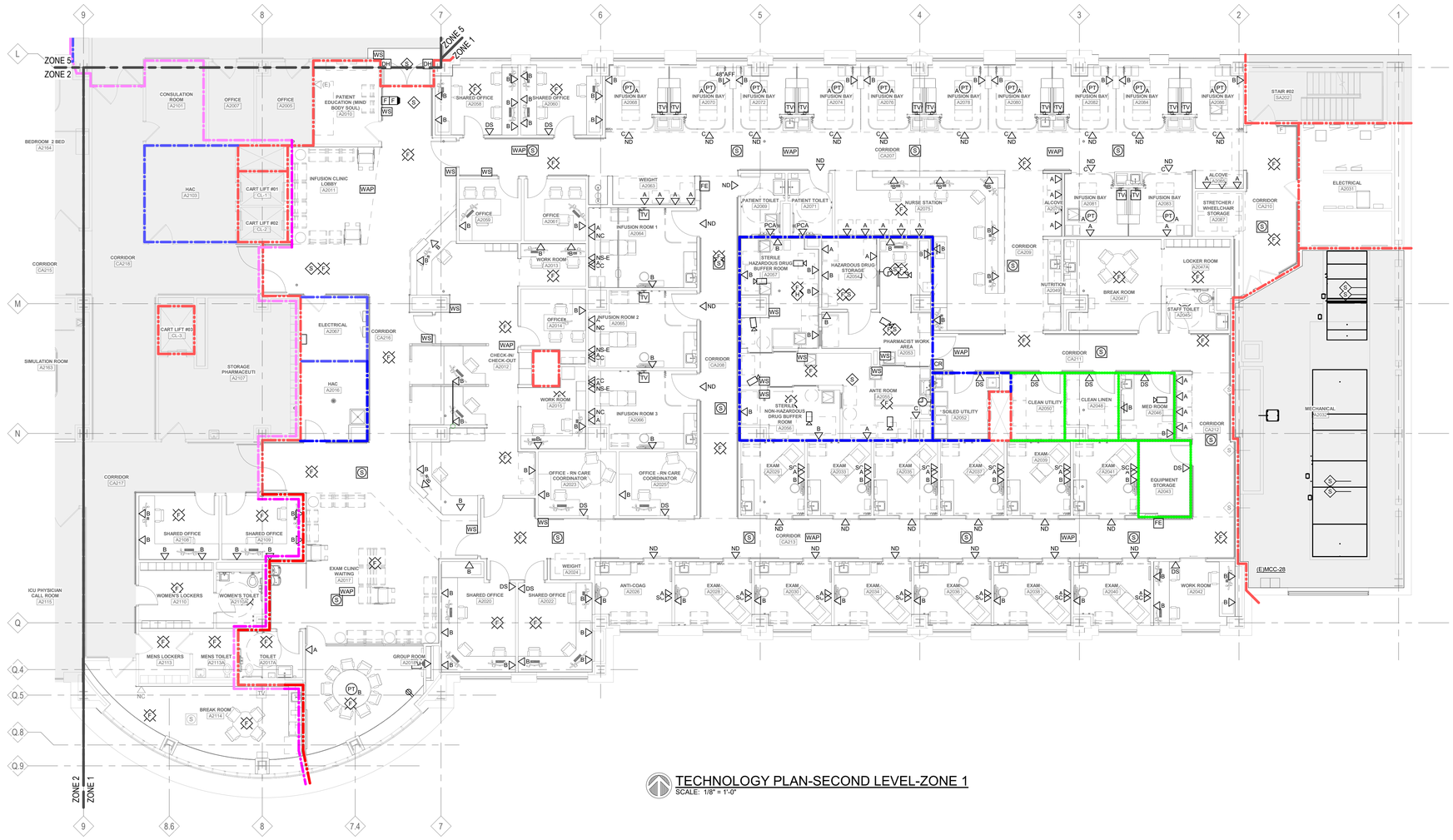
4. ALL TELECOMMUNICATIONS CABLING ROUTED IN J-HOOKS SHALL BE IN DEDICATED HOOKS, SEPARATE FROM ALL OTHER LOW VOLTAGE CABLING SYSTEMS.
5. CONDUIT, J-HOOKS, AND CABLING TO BE INSTALLED PRIOR TO FIRE PROOFING. TAP OR COVER HOOKS AND HANGERS TO PROTECT THEM DURING FIRE PROOFING APPLICATION.



TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1
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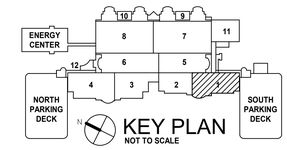

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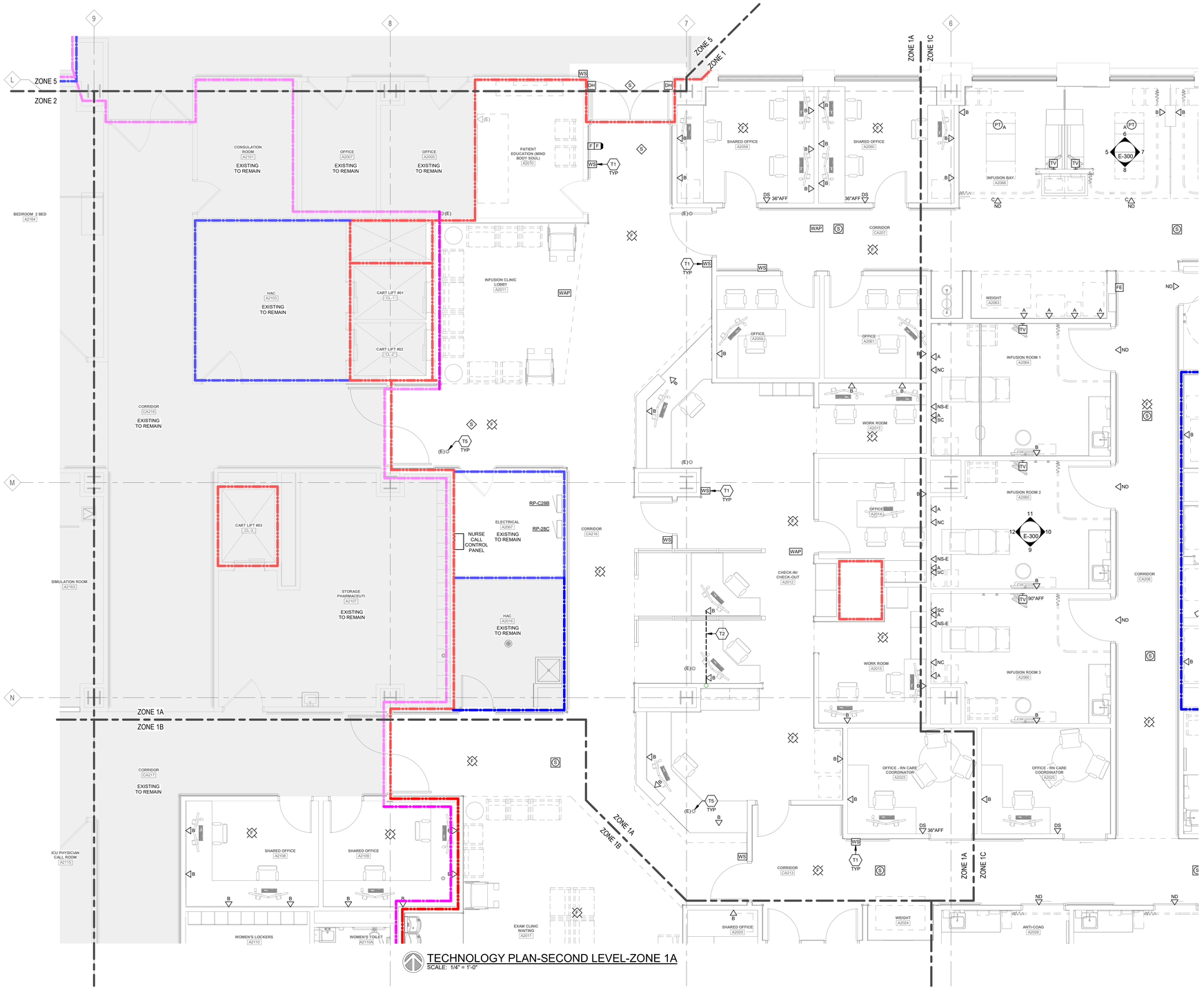

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PARTITION / WALL FIRE RATINGS

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1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

TECHNOLOGY GENERAL NOTES

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2. COORDINATE CABLE TRAY ROUTING WITH ALL TRADES.
3. ALL SERVICE ENTRANCE CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
4. ALL TELECOMMUNICATIONS CABLING ROUTED IN J-HOOKS SHALL BE IN DEDICATED HOOKS, SEPARATE FROM ALL OTHER LOW VOLTAGE CABLING SYSTEMS.
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TECHNOLOGY KEYNOTES

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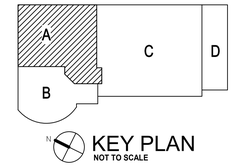
- T8 PROVIDE NEW OUTLET AND COVER PLATE AT EXISTING TECHNOLOGY DEVICE TO REMAIN.



KEY PLAN
NOT TO SCALE

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS (REVISED)	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

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

Drawing Title: TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1A
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: SET
Drawn: FKU
Project Number: 553-21-100
Building Number:
Drawing Number: ET102.1A

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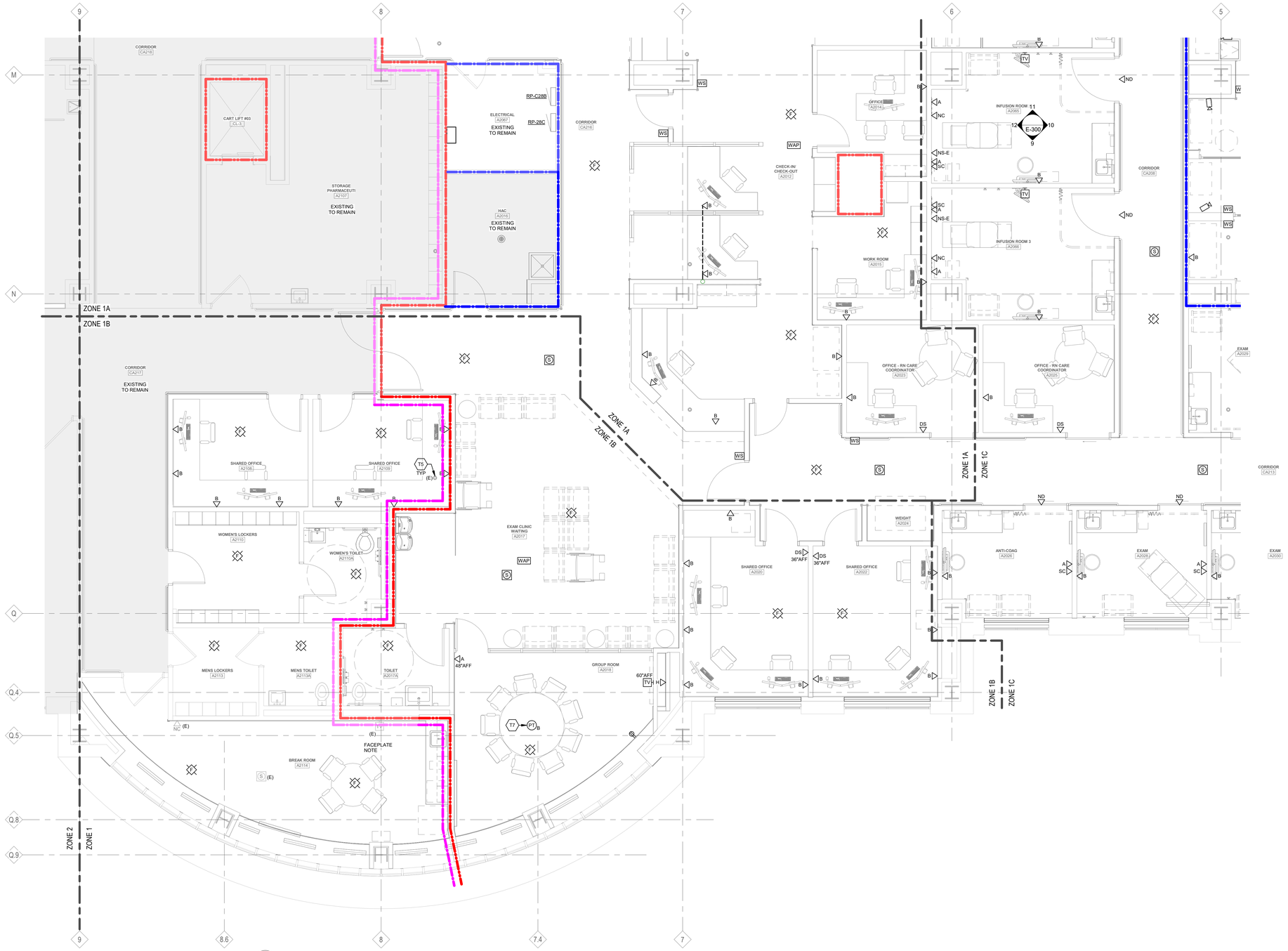

TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1B
SCALE: 1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

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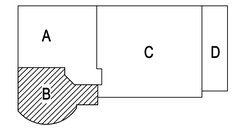

KEY PLAN
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VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1B
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: SET
Drawn: FKU
Project Number: 553-21-100
Building Number:
Drawing Number: ET102.1B

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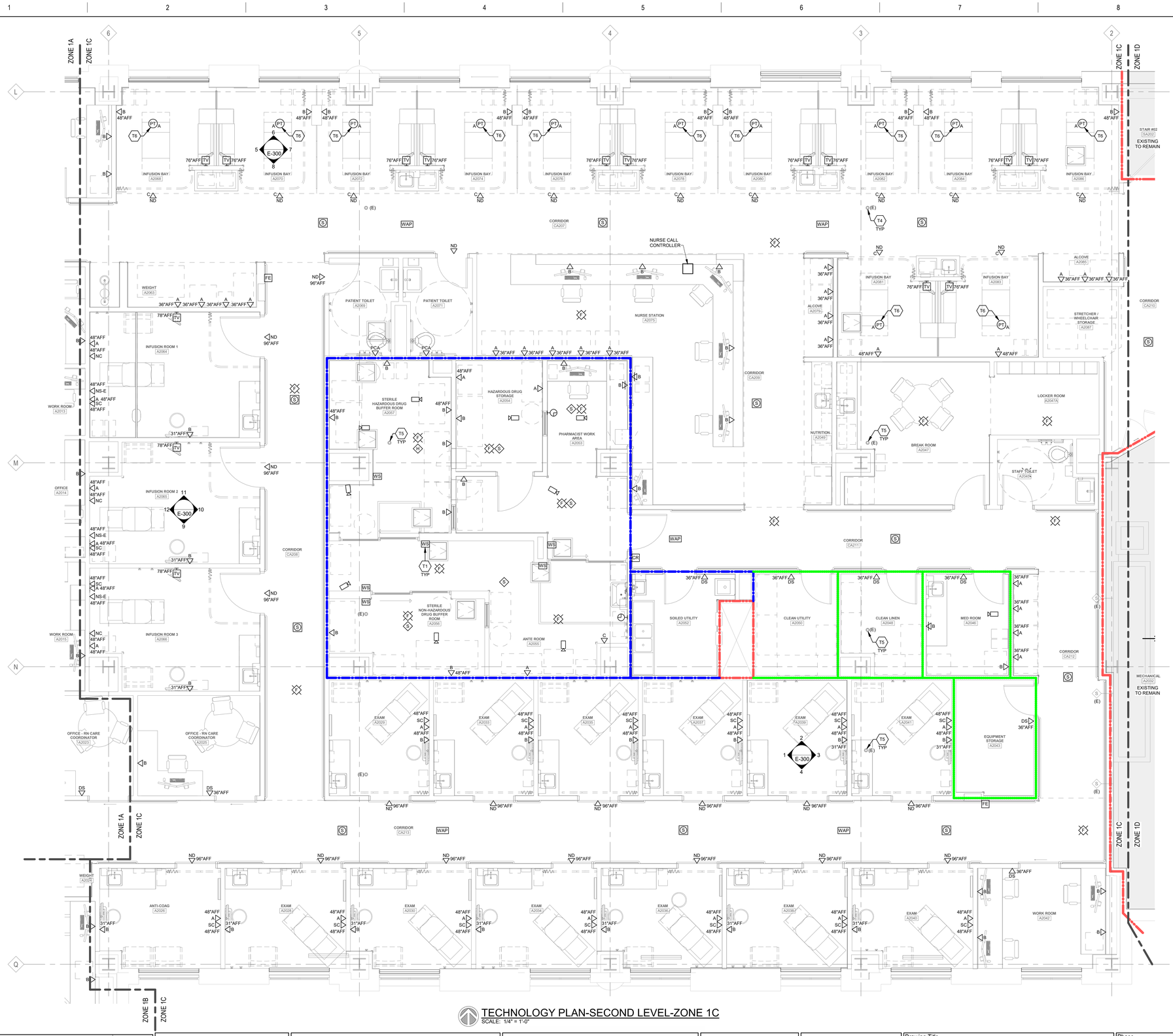

TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1C
SCALE: 1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

NON-RATED SMOKE PARTITION	EXISTING NON-RATED SMOKE PARTITION
1-HR. SMOKE BARRIER	EXISTING 1-HR. SMOKE BARRIER
1-HR. FIRE BARRIER	EXISTING 1-HR. FIRE BARRIER
2-HR. FIRE BARRIER	EXISTING 2-HR. FIRE BARRIER

NOTE: EXISTING RATED WALL SHOWN SCREENED ON PLAN. - V.I.F. WALLS MEET DESIGNATED REQUIREMENTS & ADD OPENING & PENETRATION PROTECTIVES AS REQ'D

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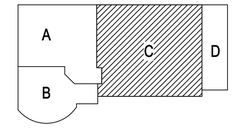

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Drawing Title: TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1C
Approved:

Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED

Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: SET
Drawn: FKU

Project Number: 553-21-100
Building Number:
Drawing Number: ET102.1C

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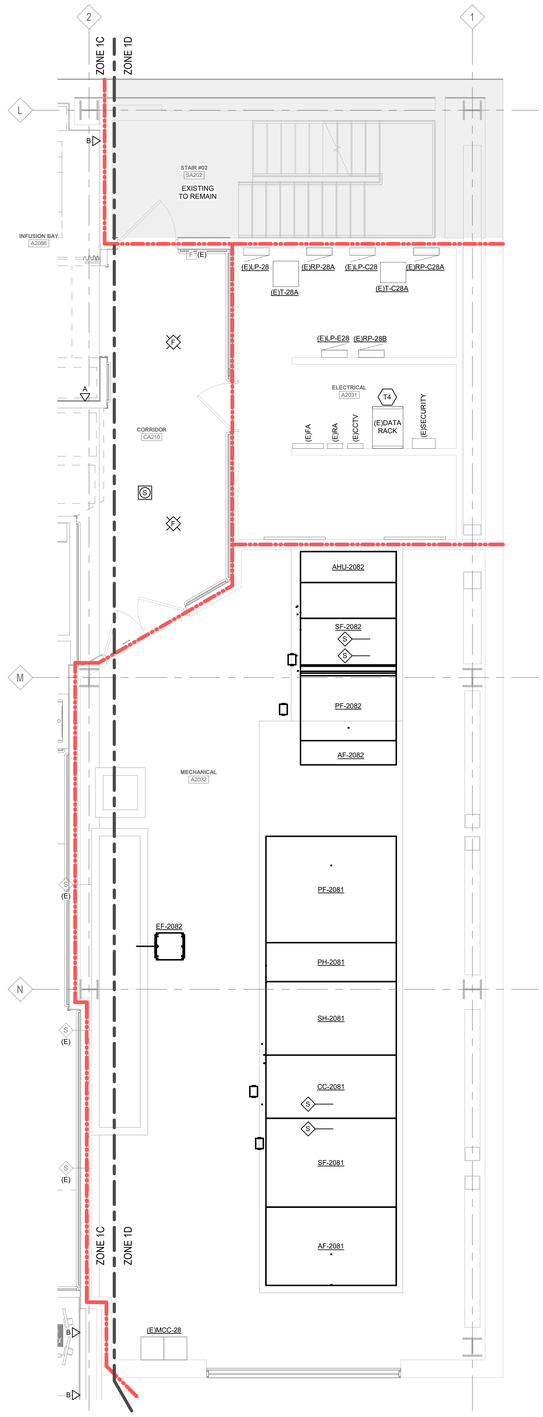

TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1D
SCALE: 1/4" = 1'-0"

PARTITION / WALL FIRE RATINGS

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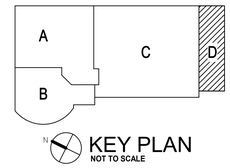

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Drawing Title: TECHNOLOGY PLAN-SECOND LEVEL-ZONE 1D
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: SET
Drawn: FKU
Project Number: 553-21-100
Building Number:
Drawing Number: ET102.1D

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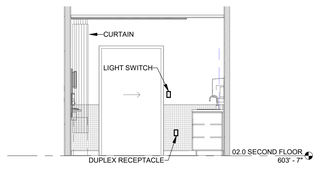
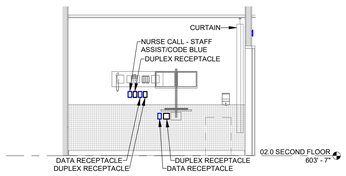
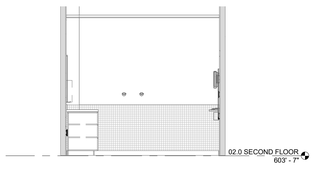


4 ED-103 TYPICAL EXAM ROOM ELECTRICAL ELEVATION - WEST
SCALE: 1/4" = 1'-0"



3 ED-103 TYPICAL EXAM ROOM ELECTRICAL ELEVATION - SOUTH
SCALE: 1/4" = 1'-0"



2 ED-103 TYPICAL EXAM ROOM ELECTRICAL ELEVATION - EAST
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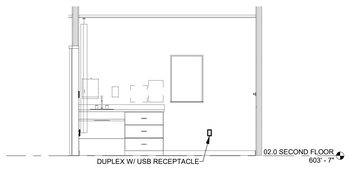
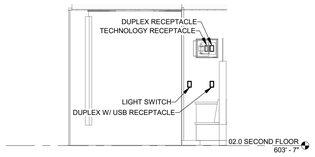
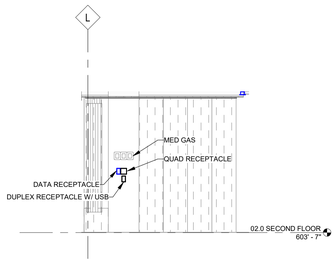


1 ED-103 TYPICAL EXAM ROOM ELECTRICAL ELEVATION - NORTH
SCALE: 1/4" = 1'-0"



8 ED-103 TYPICAL INFUSION BAY ELECTRICAL ELEVATION - WEST
SCALE: 1/4" = 1'-0"



7 ED-103 TYPICAL INFUSION BAY ELECTRICAL ELEVATION - SOUTH
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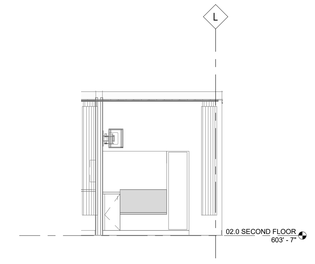

5 ED-103 TYPICAL INFUSION BAY ELECTRICAL ELEVATION - NORTH
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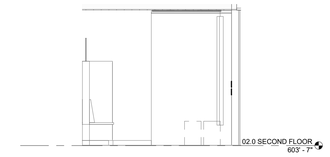
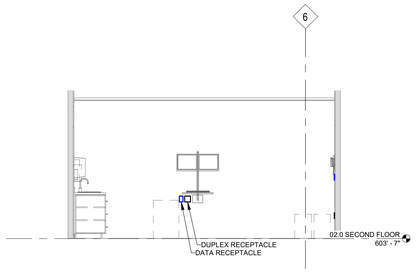


6 ED-103 TYPICAL INFUSION BAY ELECTRICAL ELEVATION - EAST
SCALE: 1/4" = 1'-0"



9 ED-103 TYPICAL INFUSION ROOM ELECTRICAL ELEVATION - WEST
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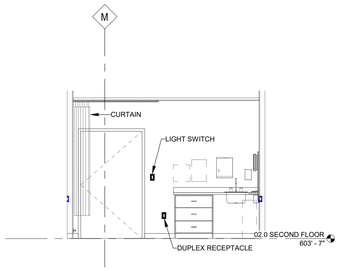

10 ED-103 TYPICAL INFUSION ROOM ELECTRICAL ELEVATION - SOUTH
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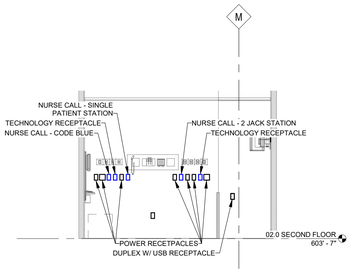

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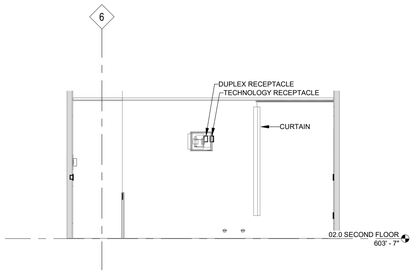

11 ED-103 TYPICAL INFUSION ROOM ELECTRICAL ELEVATION - EAST
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Drawing Title: ELECTRICAL ELEVATIONS

Approved:

Phase: 100% BID DOCUMENTS

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Location: DETROIT, MI

Issue Date: 10-JAN-2025

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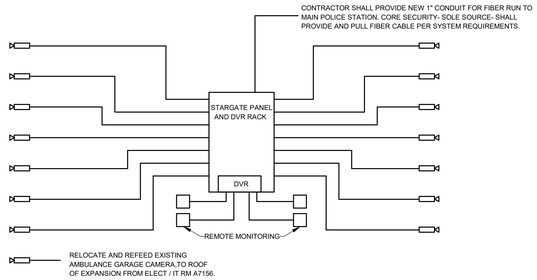
1/11/2025 3:30:09 PM

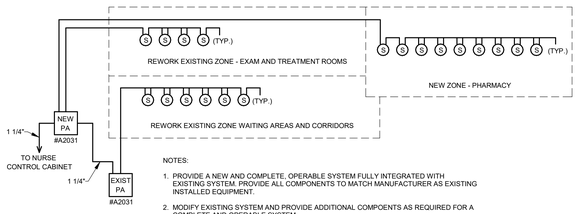
VA FORM 08 - 6231



NOTES:

1. PROVIDE NEW DVR FOR EMERGENCY DEPARTMENT CAMERAS MOUNTED ON NEW DVR RACK WITH NEW SWITCH, DISTRIBUTION ANALYZER AND STARGATE PANEL. COORDINATE INTEGRATION OF NEW EQUIPMENT WITH THE EXISTING SYSTEM AND SECURITY AND POLICE. VIEWING OF THE VIDEO WILL BE AT THE 1ST FLOOR SECURITY OFFICE.
2. PROVIDE AND INSTALL NEW EQUIPMENT RACK AND ALL ASSOCIATED EQUIPMENT IN FIRE ALARM RM C1928.
3. SEE FLOOR PLANS FOR CAMERA LOCATIONS.
4. CONTRACTOR SHALL PROVIDE ALL CONDUITS AS REQUIRED.
5. FINAL MONITOR LOCATIONS SHALL BE COORDINATED WITH THE OWNER.
6. PROVIDE QUAD SPLITTERS AS REQUIRED FOR LOCAL MONITORING FROM ROOMS C1900, C1927, AND C1949.

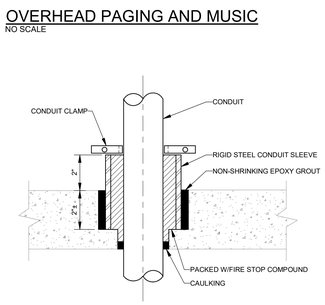
CCTV CAMERA RISER
NO SCALE



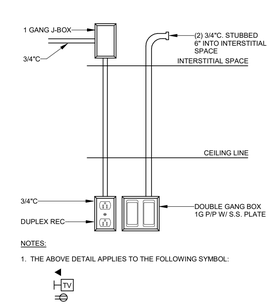
NOTES:

1. PROVIDE A NEW AND COMPLETE, OPERABLE SYSTEM FULLY INTEGRATED WITH EXISTING SYSTEM. PROVIDE ALL COMPONENTS TO MATCH MANUFACTURER AS EXISTING INSTALLED EQUIPMENT.
2. MODIFY EXISTING SYSTEM AND PROVIDE ADDITIONAL COMPOENTS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.

OVERHEAD PAGING AND MUSIC
NO SCALE



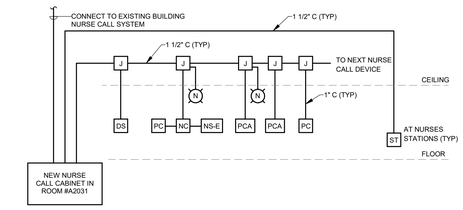
CONDUIT OPENING THROUGH EXISTING FLOOR SLAB
NO SCALE



NOTES:

1. THE ABOVE DETAIL APPLIES TO THE FOLLOWING SYMBOL:

TELEVISION OUTLET DETAIL
NO SCALE

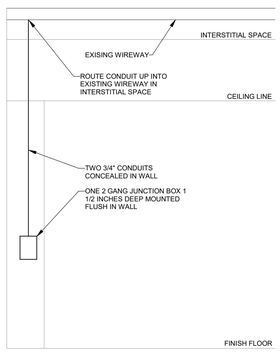


NURSE CALL SYSTEM NOTES:

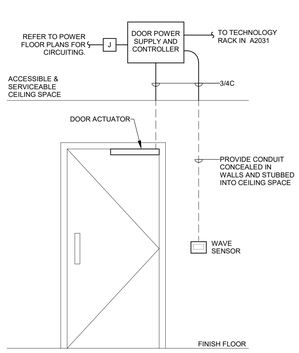
1. VERIFY EXACT LOCATIONS OF OUTLETS WITH OWNER AND ARCHITECT PRIOR TO CONDUIT ROUGH-IN.
2. ALL WIRING, DEVICES AND FINAL CONNECTIONS SHALL BE PROVIDED BY OWNERS APPROVED NURSE CALL CONTRACTOR.
3. ALL CONDUIT AND BACK BOXES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
4. COORDINATE ENTIRE INSTALLATION OF BOXES AND CONDUIT WITH MANUFACTURER OF NURSE CALL SYSTEM.
5. GROUND ALL NURSE CALL CONDUIT PER THE NURSE CALL SYSTEM MANUFACTURER RECOMMENDATIONS.
6. PROVIDE CONDUIT WITH PLASTIC INSULATED BUSHINGS AND PULL STRING
7. ALL NURSE CALL CABLING SHALL BE INSTALLED IN CONDUIT.
8. NEW NURSE MASTER CONCOLE TO BE LOCATED AT NURSE STATION #A2075
9. NS-E SINGLE PATIENT STATION. PROVIDE PILLOW SPEAKER WITH CONTROL OF TELEVISION AND LIGHTING IN SPACE.
10. CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERABLE SYSTEM FULLY INTEGRATED WITH EXISTING SYSTEMS.

NOTE:
SYSTEM SHALL BE RAULAND RESPONDER 5 TO MATCH EXISTING INSTALLED SYSTEM.

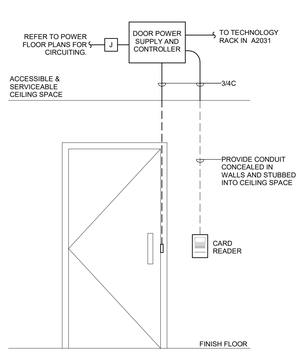
NURSE CALL SYSTEM RISER DIAGRAM
NO SCALE



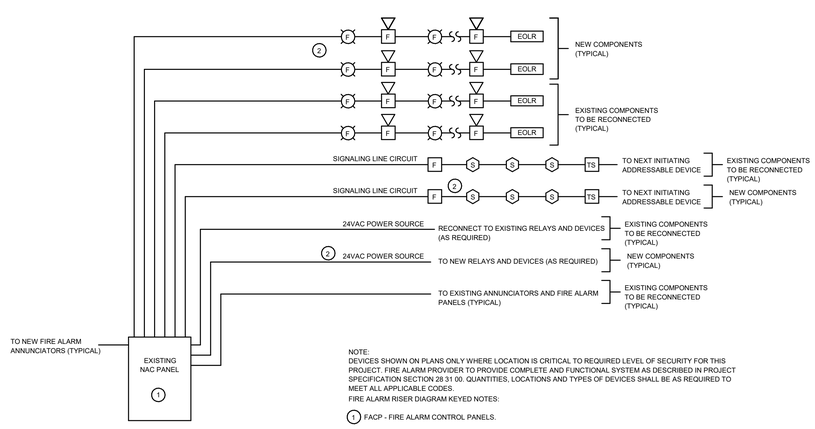
COMMUNICATION BOX DETAIL
NO SCALE



TYPICAL WAVE READER DETAIL
NO SCALE



TYPICAL CARD READER DETAIL
NO SCALE



NOTE:
DEVICES SHOWN ON PLANS ONLY WHERE LOCATION IS CRITICAL TO REQUIRED LEVEL OF SECURITY FOR THIS PROJECT. FIRE ALARM PROVIDER TO PROVIDE COMPLETE AND FUNCTIONAL SYSTEM AS DESCRIBED IN PROJECT SPECIFICATION SECTION 28 31 00. QUANTITIES, LOCATIONS AND TYPES OF DEVICES SHALL BE AS REQUIRED TO MEET ALL APPLICABLE CODES.

FIRE ALARM RISER DIAGRAM KEYED NOTES:

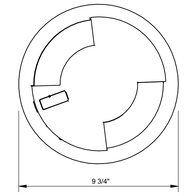
1. FACP - FIRE ALARM CONTROL PANELS.
2. ALL SYSTEM WIRING SHALL BE INSTALLED IN DEDICATED RACEWAY OR CONDUIT. WIRE AND CABLE SHALL BE RECOMMENDED BY SIMPLEX. 3/4" CONDUIT MINIMUM.

FIRE ALARM RISER DIAGRAM (TYP.)
NO SCALE

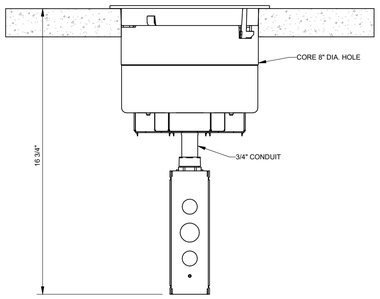
FIRE ALARM - SIMPLEX GRINNELL TOM MARTIN (248) 427-5050 x5130

NURSE CALL / DURESS / PAGING / CAMERAS - I.COMM CORPORATION
KAREN ALEXANDER (248) 960-3700
FRED SHUART (248) 960-3700

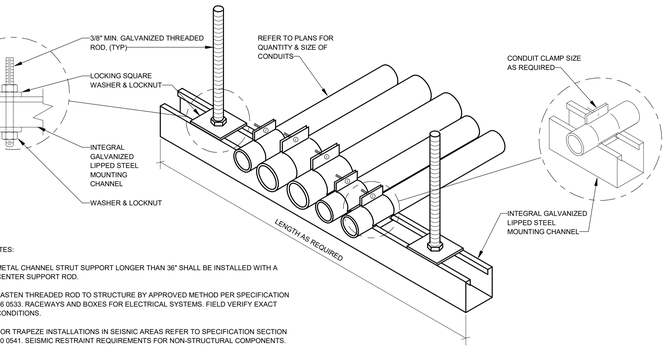
SIGNAL SYSTEMS SUPPLIER CONTACTS
NO SCALE



TOP VIEW



POKE-THROUGH FITTING
NO SCALE



NOTES:

1. METAL CHANNEL STRUT SUPPORT LONGER THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 0533. RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
3. FOR TRAPEZE INSTALLATIONS IN SEISNIC AREAS REFER TO SPECIFICATION SECTION 10 0541. SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

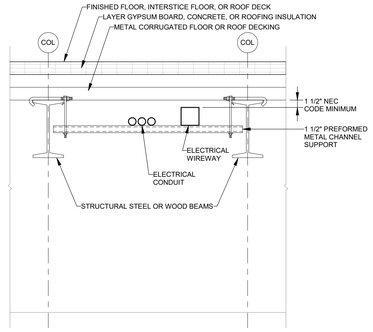
CONDUIT TRAPEZE MOUNTING DETAIL (TYP.)
NO SCALE

FIRE EXTINGUISHER MONITORING SYSTEM
SOLE SOURCE: JOHNSON CONTROLS/TYCO APPROVED PROVIDERS.

SOLE SOURCE SUPPLIER CONTACT INFORMATION:
JOHNSON CONTROLS/TYCO APPROVED PROVIDERS.

NOTE:
CONTRACTOR SHALL HAVE A SIMPLEX GRINNELL REPRESENTATIVE MODIFY PROGRAMMING FOR ALL NEW COMPONENTS.

FIRE EXTINGUISHER VISUAL MONITORING DETAIL
NO SCALE



CONDUIT AND WIREWAY MOUNTING DETAIL
NO SCALE

POKE-THRU FIXTURE SCHEDULE

TYPE	DESCRIPTION	REQUIRED FACEPLATES	CONDUIT	FINISH	LOCATION	REMARKS
A	FLUSH MOUNT POKE-THRU WITH 6 FACEPLATES AND CONDUIT INPUTS	(1)FOR NURSE CALL (1)FOR TWO DATA CONNECTIONS (1)FOR A DUPLEX POWER OUTLET	(1)1 1/2 C FOR NURSE CALL (NS-E) (1)1 1/2" C FOR DATA (1)3/4" C FOR POWER	BY FFE	INFUSION BAYS	
B	FLUSH MOUNT POKE-THRU WITH 4 FACEPLATES AND CONDUIT INPUTS	(1)FOR COAX (1)FOR HDMI (1)FOR TWO DATA CONNECTIONS (1)FOR A DUPLEX POWER OUTLET	(1)1 1/2" C FOR LOW VOLTAGE (1)1 1/2" C FOR HDMI (1)3/4" C FOR POWER	BY FFE	GROUP ROOM A2018	

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS (REVISED)	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

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Mechanical Engineering Group Associates, Inc. MEGA

ENGINEER OF RECORD
WalterMechanical Services Inc.
3419 Pierson Place
Flushing, Michigan, 48433
810-230-6202

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

Drawing Title: ELECTRICAL DETAILS
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: SET
Drawn: FKU
Project Number: 553-21-100
Building Number:
Drawing Number: E-500

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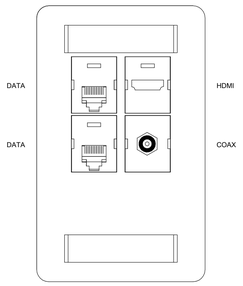
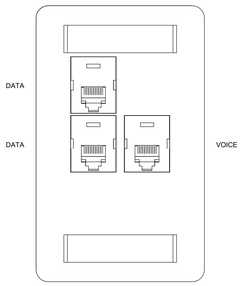
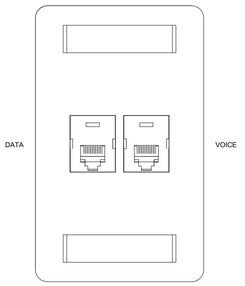
1/13/2025 9:09:01 AM
VA FORM 08 - 6231



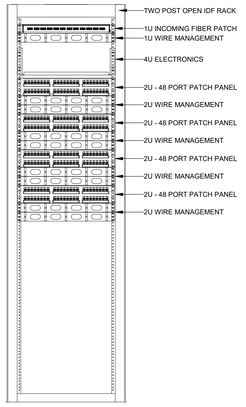
TECHNOLOGY FACEPLATE
DETAIL - TYPE "H"



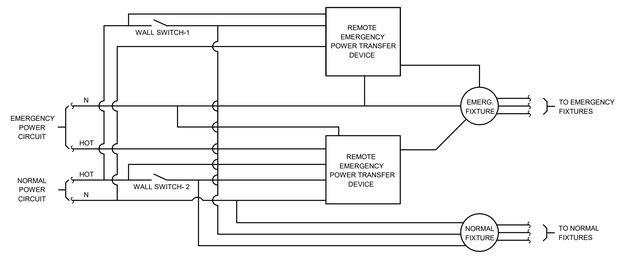
TECHNOLOGY FACEPLATE
DETAIL - TYPE "B"



TECHNOLOGY FACEPLATE
DETAIL - TYPE "A"



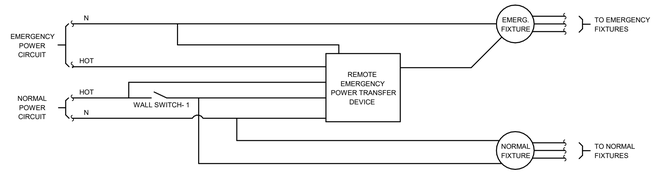
IDF RACK - ELEVATION



NOTES:

1. WIRING DIAGRAM BASED ON #BLTC-R BY NINE24, INC. AND IS PROVIDED FOR INTENT AND BASIS OF DESIGN PURPOSES ONLY. SEE MANUFACTURER REQUIREMENTS FOR INSTALLATION.
2. MOUNT TRANSFER DEVICE RECESSED IN CEILING ABOVE CONTROL SWITCHES. COORDINATE LOCATION WITH ALL OTHER TRADES.
3. TRANSFER DEVICE SHALL BE UL924 LISTED.
4. PROVIDE VOLTAGE AS REQUIRED FOR LOCATION.

CORRIDOR EMERGENCY LIGHTING CONTROL (TYP.)
NO SCALE



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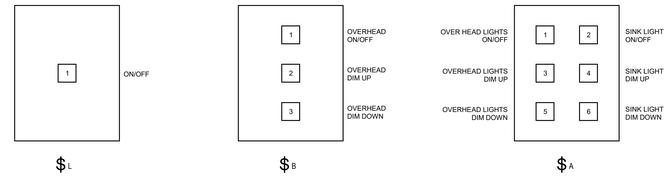
2. MOUNT TRANSFER DEVICE RECESSED IN CEILING ABOVE CONTROL SWITCHES. COORDINATE LOCATION WITH ALL OTHER TRADES.
3. TRANSFER DEVICE SHALL BE UL924 LISTED.
4. PROVIDE VOLTAGE AS REQUIRED FOR LOCATION.

EMERGENCY LIGHTING CONTROL (TYP.)
NO SCALE



NOTES:

1. LOW VOLTAGE SWITCHES SHALL HAVE CUSTOM ENGRAVING PER SPECIFICATIONS.

LOW VOLTAGE SWITCH DIAGRAMS
NO SCALE

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS (REVISED)	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
Revisions:	Date:

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Office of Construction and Facilities Management
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Building Number:
Drawing Number: E-501

Autodesk Docs://VA MI Detroit/21026T_E.rvt
1/11/2025 3:30:11 PM
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(E)PANEL NAME: LP-C28

PANEL LOCATION:
ENCLOSURE: TYPE 1
MOUNTING: SURFACE

MAIN: 100 A
BUSSING: 100 A
GROUND BUS: STANDARD
NEUTRAL: 100.00%

VOLTAGE: 277/480 Wye
PHASE: 3
WIRE: 4
MIN A.I.C. RATING: 25KAIC

CKT	DESCRIPTION	BKR SIZE	P	A		B		C		P	BKR SIZE	DESCRIPTION	CKT
1	**EGRESS LTG FOR A2 SOUTH WING**	20 A	1	1040	14656								2
3	SPARE	20 A	1			0	10360			3	45 A	T-C28A (30KVA) FEEDS RP-C28A	4
5	SPACE	--	1					--	10320				6
7	SPACE	--	1	--	--					1	--	SPACE	8
9	SPACE	--	1			--	--			1	--	SPACE	10
11	SPACE	--	1					--	--	1	--	SPACE	12
13	SPACE	--	1	--	--					1	--	SPACE	14
15	SPACE	--	1			--	--			1	--	SPACE	16
17	SPACE	--	1					--	--	1	--	SPACE	18
		TOTAL LOAD:		15696 VA		10360 VA		10320 VA					
		TOTAL AMP:		57 A		37 A		37 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Motor	1496 VA	125.00%	1870 VA		
RECEPTACLE	30040 VA	66.64%	20020 VA	**CONNECTED LOAD:**	36 kVA
POWER	3800 VA	100.00%	3800 VA	**DEMAND LOAD:**	27 kVA
LIGHTING	1040 VA	125.00%	1300 VA	**TOTAL CONNECTED:**	44 A
				TOTAL DEMAND:	32 A

NOTES:
BREAKERS SHOWN AS BOLD ARE NEW. ALL OTHERS ARE EXISTING TO REMAIN.
DESCRIPTIONS SHOWN AS BOLD INDICATE NEW CIRCUITING AND CIRCUIT NAME.
ESTIMATE FULL LOAD OF EGRESS LIGHTING AT 4000 WATTS.

(E)PANEL NAME: LP-28

PANEL LOCATION:
ENCLOSURE: TYPE 1
MOUNTING: SURFACE

MAIN: 150 A
BUSSING: 225 A
GROUND BUS: STANDARD
NEUTRAL: 100.00%

VOLTAGE: 277/480 Wye
PHASE: 3
WIRE: 4
MIN A.I.C. RATING: 22KAIC

CKT	DESCRIPTION	BKR SIZE	P	A		B		C		P	BKR SIZE	DESCRIPTION	CKT
1	**LTG - CORRIDOR, ALCOVES, NURSE STATION DESK**	20 A	1	2453	888					1	20 A	**LTG - MEXICATION AREA A2053, 54, 55, 56, 57**	2
3	**LTG - PHARMACY - A2053-57**	20 A	1			1654	900			1	20 A	LTG - CA216,7	4
5	**LTG - LOBBY AND CHECK-IN**	20 A	1					1731	2430	1	20 A	LTG - CA201, 3, 4, 5	6
7	**LTG - EXAM ROOMS A2026, 28-30, 34- 40**	20 A	1	2028	1540					1	20 A	LTG - INTERSTICE (Z-1)	8
9	LTG - A2005, 7, 62, A2101, 3, 7	20 A	1			1840	2100			1	20 A	LTG - INTERSTICE (Z-1)	10
11	LTG - A2001, 2, 3, 4, 6, A, CA204, 6	20 A	1					2225	1820	1	20 A	LTG - INTERSTICE (Z-1.5)	12
13	LTG - A2031,2	20 A	1	190	3474					1	**20 A**	**LTG - INF BAYS A2064-66, 68, 70, 72, 74, 76, 78, 80-8...**	14
15	**LTG - LOBBY AND CHECK-IN**	20 A	1			2040	--			1	--	SPACE	16
17	**LTG - A2108-10, 13-14, 17A-18**	20 A	1					1582	--	1	--	SPACE	18
19	SPACE	--	1	--	--					1	--	SPACE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25				29430	--					1	--	SPACE	26
27	T-28A (45KVA) FEEDING RP-28A	70 A	3			31010	--			1	--	SPACE	28
29								31800	--	1	--	SPACE	30
		TOTAL LOAD:		40004 VA		39545 VA		41588 VA					
		TOTAL AMP:		145 A		143 A		150 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Motor	800 VA	125.00%	1000 VA		
Other	133 VA	100.00%	133 VA	**CONNECTED LOAD:**	121 kVA
RECEPTACLE	88490 VA	55.65%	49245 VA	**DEMAND LOAD:**	89 kVA
POWER	2950 VA	100.00%	2950 VA	**TOTAL CONNECTED:**	146 A
LIGHTING	28763 VA	125.00%	35954 VA	**TOTAL DEMAND:**	107 A

NOTES:
BREAKERS SHOWN AS BOLD ARE NEW. ALL OTHERS ARE EXISTING TO REMAIN.
DESCRIPTIONS SHOWN AS BOLD INDICATE NEW CIRCUITING AND CIRCUIT NAME.

(E)PANEL NAME: RP-28C

PANEL LOCATION:
ENCLOSURE: TYPE 1
MOUNTING: SURFACE

MAIN: MLO
BUSSING: 225 A
GROUND BUS: STANDARD
NEUTRAL: 100.00%

VOLTAGE: 120/208 Wye
PHASE: 3
WIRE: 4
MIN A.I.C. RATING: 22KAIC

CKT	DESCRIPTION	BKR SIZE	P	A		B		C		P	BKR SIZE	DESCRIPTION	CKT
1	**REC - A2108**	20 A	1	1080	540					1	20 A	REC - A2062	2
3	**REC - A2108, A2109**	20 A	1			1080	180			1	20 A	**(GFI) REC - REFRIGERATOR - A2114**	4
5	**REC - A2109**	20 A	1					1080	0	1	20 A	**SPARE**	6
7	**REC - A2108, A2109**	20 A	1	720	0					1	20 A	**SPARE**	8
9	**REC - A2108, A2109, A2113, A2017, CA217**	20 A	1			1080	720			1	20 A	REC - A2005	10
11	**REC - A2017A, A2113A**	20 A	1					360	720	1	20 A	REC - A2010	12
13	**POKE THRU - A2018**	20 A	1	360	720					1	20 A	REC - A2101	14
15	**REC - A2018**	20 A	1			1440	1080			1	20 A	REC - A2007, A2103, A2012	16
17	REC - CORRIDRS, LOBBIES	20 A	1					1080	720	1	20 A	REC - A2006, 2006A	18
19	REC - DRINKING FOUNTAIN CORR A5	20 A	1	180	1080					1	20 A	REC - A2002 THRU A2004A	20
21	REC - CORRIDORS CA216	20 A	1			900	720			1	20 A	REC - NORTH A2001	22
23	REC - A2059	20 A	1					1080	720	1	20 A	REC - SOUTH A2001	24
25	REC - A2001	20 A	1	1650	1000					1	20 A	ETVS - INTERSTICE (Z-2,1)	26
27	REC - INTERSTITIAL	20 A	1			1400	180			1	**20 A**	**REC - A2110A**	28
29	REC - CORRIDORS	20 A	1					1620	1000	1	**20 A**	**AUTOMATIC FAUCETS AND FLUSH VALVES**	30
31	**REC - A2020, A2022**	**20 A**	1	900	180					1	**20 A**	**REC - DRINKING FOUNTAIN - A2017**	32
33	**REC - A2020**	**20 A**	1			1080	180			1	**20 A**	**REC - ABOVE COUNTER - A2114**	34
35	**REC - A2022**	**20 A**	1					1080	180	1	**20 A**	**REC - ABOVE COUNTER - A2114**	36
37	**REC - A2020, A2022**	**20 A**	1	720	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
		TOTAL LOAD:		9130 VA		10040 VA		9640 VA					
		TOTAL AMP:		76 A		84 A		81 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
RECEPTACLE	27810 VA	67.98%	18905 VA		
POWER	1000 VA	100.00%	1000 VA	**CONNECTED LOAD:**	29 kVA
				DEMAND LOAD:	20 kVA
				TOTAL CONNECTED:	80 A
				TOTAL DEMAND:	55 A

NOTES:
BREAKERS SHOWN AS BOLD ARE NEW. ALL OTHERS ARE EXISTING TO REMAIN.
DESCRIPTIONS SHOWN AS BOLD INDICATE NEW CIRCUITING AND CIRCUIT NAME.

(E)PANEL NAME: RP-28B

PANEL LOCATION:
ENCLOSURE: TYPE 1
MOUNTING: SURFACE

MAIN: MLO
BUSSING: 225 A
GROUND BUS: STANDARD
NEUTRAL: 100.00%

VOLTAGE: 120/208 Wye
PHASE: 3
WIRE: 4
MIN A.I.C. RATING: 22KAIRC

CKT	DESCRIPTION	BKR SIZE	P	A		B		C		P	BKR SIZE	DESCRIPTION	CKT
1	**REC - CHECK-IN DESK A2012**	20 A	1	180	0					1	20 A	**SPARE**	2
3	**REC - A2012**	20 A	1			1440	0			1	20 A	**SPARE**	4
5	**REC - A2013, A2014**	20 A	1					720	1440	1	20 A	**REC - COMPUTERS - A2026, A2028, A2030, A2034**	6
7	**REC - A2025**	20 A	1	360	1080					1	20 A	**REC - GEN USE - A2036, A2038**	8
9	**REC - A2037**	20 A	1			1080	1440			1	20 A	**REC - COMPUTERS - A2036, A2038, A2040, A2041**	10
11	**REC - A2040**	20 A	1					540	1800	1	20 A	**REC - COMPUTERS - A2029, A2033, A2035, A2037**	12
13	**REC - A2042**	20 A	1	1440	1080					1	20 A	**REC - GEN USE - A2030, A3034**	14
15	**REC - A2043, A2048, CA212, CA213**	20 A	1			360	1080			1	20 A	**REC - GENE USE - A2029, A2033**	16
17	**REC - A2059, A2061**	20 A	1					720	0	1	20 A	**SPARE**	18
19	**REC - A2064**	20 A	1	1440	0					1	20 A	**SPARE**	20
21	**REC - A2065**	20 A	1			1440	1260			1	20 A	**REC - GEN USE - A2048, A2050, A2052**	22
23	**REC - A2066**	20 A	1					1440	0	1	20 A	**SPARE**	24
25	**DOOR ACTUATORS**	20 A	1	200	1080					1	20 A	**REC - GEN USE - A2039, A2041**	26
27	**REC - GEN USE - A2026, A2028**	20 A	1			1080	0			1	20 A	**SPARE**	28
29	**SCALE - WEIGHT A2024**	20 A	1					500	0	1	20 A	**SPARE**	30
31	**SPARE**	20 A	1	0	0					1	20 A	**SPARE**	32
33	**SPARE**	20 A	1			0	1000			1	20 A	REC - INTERSTICE	34
35	**SPARE**	20 A	1					0	800	1	20 A	REC - INTERSTICE	36
37	**SPARE**	20 A	1	0	--					1	--	SPACE	38
39	**SPARE**	20 A	1			0	--			1	--	SPACE	40
41	SPARE	20 A	1					0		1	--	SPACE	42
		TOTAL LOAD:		6860 VA		10180 VA		7960 VA					
		TOTAL AMP:		57 A		86 A		68 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
RECEPTACLE	24300 VA	70.58%	17150 VA		
POWER	700 VA	100.00%	700 VA	**CONNECTED LOAD:**	25 kVA
				DEMAND LOAD:	18 kVA
				TOTAL CONNECTED:	69 A
				TOTAL DEMAND:	50 A

NOTES:
BREAKERS SHOWN AS BOLD ARE NEW. ALL OTHERS ARE EXISTING TO REMAIN.
DESCRIPTIONS SHOWN AS BOLD INDICATE NEW CIRCUITING AND CIRCUIT NAME.

(E)PANEL NAME: RP-28A

PANEL LOCATION:
ENCLOSURE: TYPE 1
MOUNTING: SURFACE

MAIN: 175 A (100% RATED)
BUSSING: 225 A
GROUND BUS: STANDARD
NEUTRAL: 100.00%

VOLTAGE: 120/208 Wye
PHASE: 3
WIRE: 4
MIN A.I.C. RATING: 22KAIC

CKT	DESCRIPTION	BKR SIZE	P	A		B		C		P	BKR SIZE	DESCRIPTION	CKT
1	**REC - A2084, A2085**	20 A	1	1800	720					1	20 A	**REC - A2060**	2
3	**REC - A2043, CA212, CA213**	20 A	1			1440	1080			1	20 A	**REC - A2060**	4
5	**REC - A2080, A2082**	20 A	1					1800	1080	1	20 A	**REC - A2058**	6
7	**REC - A2054, A2054, A207A**	20 A	1	1260	720					1	20 A	**REC - A2058**	8
9	**REC - A2076, A2078**	20 A	1			1800	1080			1	20 A	**REC - A2075**	10
11	**REC - A2053, A2055, A2057**	20 A	1					1260	500	1	20 A	**SCALE - WEIGHT A2063**	12
13	**REC - A2072, A2074**	20 A	1	1800	1080					1	20 A	**REC - A2075**	14
15	**REC - A2068**	20 A	1			1800	1260			1	20 A	**REC - A2085**	16
17	**REC - A2083**	20 A	1					1800	1200	1	20 A	**REC - A2049, A2047 - REFRIGERATOR**	18
19	**REC - A2-77 - MICROWAVE**	20 A	1	1500	1440					1	20 A	**REC - A2079**	20
21	**REC - A2047 - ABOVE COUNTER**	20 A	1			360	280			1	20 A	**REC AND FLUSH VALVES - A2045**	22
23	**REC - A2049 - ICE MACHINE**	20 A	1					1320	1500	1	20 A	**REC - A2047 - COFFEE MAKER**	24
25	**REC - A2049 - COFFEE MAKER**	20 A	1	1500	540					1	20 A	REC/LTG - MECH A2032	26
27	**REC - A2049 - ABOVE COUNTER**	20 A	1			180	500			1	20 A	REC/LTG - MECH A2032	28
29	**REC - A2048 - MICROWAVE**	20 A	1					1500	800	1	20 A	UH - A2032	30
31	**REC - A2069, A2071**	20 A	1	360	9130					1			32
33	**FLUSH VALVES - A2069, A2071**	20 A	1			650	10040			3	100 A	RP-28C	34
35	**REC - CA207**	20 A	1					1440	9640				36
37	**REC - A2050, A2052**	**20 A**	1	720	6860								38
39	REC - CORRIDOR	20 A	1			360	10180			3	100 A	RP-28B	40
41	**SPARE**	**20 A**	1					0	7960				42
		TOTAL LOAD:		29430 VA		31010 VA		31800 VA					
		TOTAL AMP:		245 A		260 A		267 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Motor	800 VA	125.00%	1000 VA		
RECEPTACLE	88490 VA	55.65%	49245 VA	**CONNECTED LOAD:**	92 kVA
POWER	2950 VA	100.00%	2950 VA	**DEMAND LOAD:**	53 kVA
				TOTAL CONNECTED:	256 A
				TOTAL DEMAND:	148 A

NOTES:
BREAKERS SHOWN AS BOLD ARE NEW. ALL OTHERS ARE EXISTING TO REMAIN.
DESCRIPTIONS SHOWN AS BOLD INDICATE NEW CIRCUITING AND CIRCUIT NAME.

(E)PANEL NAME: RP-C28B

PANEL LOCATION:
ENCLOSURE: TYPE 1
MOUNTING: SURFACE

MAIN: MLO
BUSSING: 100 A
GROUND BUS: STANDARD
NEUTRAL: 100.00%

VOLTAGE: 120/208 Wye
PHASE: 3
WIRE: 4
MIN A.I.C. RATING: 22KAIC

CKT	DESCRIPTION	BKR SIZE	P	A		B		C		P	BKR SIZE	DESCRIPTION	CKT
1	**REC - INFUSION RM A2064**	20 A	1	900	500					1	20 A	POWER DOORS - CA206	2
3	**REC - INFUSION RM A2065**	20 A	1			900	400			1	20 A	REC - INTERSTICE	4
5	**REC - INFUSION RM A2066**	20 A	1					900	500	1	20 A	**MED GAS ALARM PANEL POWER.**	6
7	**REC - COMPUTERS - INFUSION RM A2064 THRU...**	20 A	1	1080	1000					1	20 A	**NEW NURSE CALL CONTROL CABINET**	8
9	IAP - 2107	20 A	1			100	180			1	20 A	REC - A2067	10
11	**REC - COMPUTERS - CHECK-IN A2012**	20 A	1					1440	180	1	20 A	REC - A2067	12
13	**REC - COMPUTERS - CHECK-IN A2012**	20 A	1	1080	1440					1	20 A	**REC - COMPUTERS - A2013, A2014, A2061**	14
15	**REC - COMPUTERS - CHECK-IN A2012, OFFICE A2059**	20 A	1			1080	180			1	20 A	REC - MOTORIZED LIFT - INFUSION RM A2064	16
17	SPACE	--	1					--	--	1	--	SPACE	18
		TOTAL LOAD:		6000 VA		2840 VA		3020 VA					
		TOTAL AMP:		50 A		24 A		25 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
RECEPTACLE	9760 VA	100.00%	9760 VA		
POWER	2100 VA	100.00%	2100 VA	**CONNECTED LOAD:**	12 kVA
				DEMAND LOAD:	12 kVA
				TOTAL CONNECTED:	33 A
				TOTAL DEMAND:	33 A

NOTES:
BREAKERS SHOWN AS BOLD ARE NEW. ALL OTHERS ARE EXISTING TO REMAIN.
DESCRIPTIONS SHOWN AS BOLD INDICATE NEW CIRCUITING AND CIRCUIT NAME.

(E)PANEL NAME: RP-C28A

PANEL LOCATION:
ENCLOSURE: TYPE 1
MOUNTING: SURFACE

MAIN: 125 A
BUSSING: 225 A
GROUND BUS: STANDARD
NEUTRAL: 100.00%

VOLTAGE: 120/208 Wye
PHASE: 3
WIRE: 4
MIN A.I.C. RATING: 22KAIC

CKT	DESCRIPTION	BKR SIZE	P	A		B		C		P	BKR SIZE	DESCRIPTION	CKT
1	REC - A2031	20 A	1	360	720					1	20 A	**REC - INFUSION BAY A2051, A2053**	2
3	REC - A2031	20 A	1			180	1080			1	20 A	**REC - INFUSION BAY A208, A2084, A2086**	4
5	REC - A2031	20 A	1					360	1440	1	20 A	**REC - INFUSION BAY A2074, A2076, A2079, A2080**	6
7	REC - A2031	20 A	1	180	1080					1	20 A	**REC - INFUSION BAY A2068, A2070, A2072**	8
9	**REC - PHARMACY A2057**	20 A	1			900	1080			1	20 A	**REC - COMPUTERS - NURSE STATION A2075**	10
11	**REC - REFRIGERATOR - PHARMACY A2055**	20 A	1					180	200	1	20 A	**DOOR WAVE SYSTEM**	12
13	**REC - COMPUTERS - PHARMACY A2053**	20 A	1	720	1080					1	20 A	**REC - COMPUTERS - NURSE STATION A2075**	14
15	**"LOCKABLE" PASS-THRU - PHARMACY A2054**	20 A	1			500	360			1	20 A	**REC - PRINTERS - NURSE STATION A2075**	16
17	**REC - HOOD - PHARMACY A2057**	20 A	1					1080	900	1	20 A	**REC - EXAM A2029, 2033, 2035, 2037, 2039**	18
19	**REC - HOOD - PHARMACY A2056**	20 A	1	1080	720					1	20 A	**REC - EXAM A2036, A2038, A2040, A2041**	20
21	**REC - HOOD - PHARMACY A2057**	20 A	1			1080	720			1	20 A	**REC - EXAM A2026, A2028, 20330, A2034**	22
23	**REC - REFRIGERATOR - PHARMACY A2054**	20 A	1					800	400	1	20 A	REC - INTERSTICE	24
25	**"LOCKABLE" A2057 - PASS-THRU**	20 A	1	500	1496					1	20 A	**EF-2082 - MECHANICAL A2032**	26
27	**REC - GEN USE - PHARMACY A2053 THRU A2055**	20 A	1			1260	0			1	20 A	**SPARE**	28
29	**REC - COMPOUTERS - A2023, A2025**	20 A	1					1440	0	1	**20 A**	**SPARE**	30
31	**REC - GEN USE - MED RM A2046**	20 A	1	720	6000								32
33	**REC - REFRIGERATORS - MED RM A2046**	20 A	1			360	2840			3	60 A	RP-C28B	34
35	**FIRE SHUTTER - PHARMACIST A2053**	20 A	1					500	3020				36
37	**SPARE**	20 A	1	0	--					1	--	SPACE	38
39	SPARE	20 A	1			0	--			1	--	SPACE	40
41	SPARE	20 A	1					0	--	1	--	SPACE	42
		TOTAL LOAD:		14656 VA		10360 VA		10320 VA					
		TOTAL AMP:		122 A		86 A		86 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Motor	1496 VA	125.00%	1870 VA		
RECEPTACLE	30040 VA	66.64%	20020 VA	**CONNECTED LOAD:**	35 kVA
POWER	3800 VA	100.00%	3800 VA	**DEMAND LOAD:**	26 kVA
				TOTAL CONNECTED:	98 A
				TOTAL DEMAND:	71 A

NOTES:
BREAKERS SHOWN AS BOLD ARE NEW. ALL OTHERS ARE EXISTING TO REMAIN.
DESCRIPTIONS SHOWN AS BOLD INDICATE NEW CIRCUITING AND CIRCUIT NAME.

100% BID DOCUMENTS	10-JAN-2025
95% CONSTRUCTION DOCUMENTS (REVISED)	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

VA STATION
VA HEALTH CARE | Defining EXCELLENCE in the 21st Century
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STAMP

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

Drawing Title: PANEL SCHEDULES
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: SET
Drawn: FKU
Project Number: 553-21-100
Building Number:
Drawing Number: E-600

Autodesk Docs://VA MI Detroit/21028T_E.rvt
1/11/2025 3:30:14 PM
VA FORM 08 - 6231

(E)PANEL NAME: MCC-78

PANEL LOCATION:
ENCLOSURE: TYPE 1
MOUNTING: FLOOR

MAIN: MLO
BUSSING: 400 A
GROUND BUS: STANDARD
NEUTRAL: 100.00%

VOLTAGE: 277/480 Wye
PHASE: 3
WIRE: 4
MIN A.I.C. RATING: 22KAIC

CKT	DESCRIPTION	BKR SIZE	P	A		B		C		P	BKR SIZE	DESCRIPTION	CKT
1				14411	5820								2
3	SF-7081	100 A	3			14411	5820			3	40 A	RF-7081	4
5								14411	5820				6
7				499	5820								8
9	SF-28	15 A	3			499	5820			3	40 A	EF-120	10
11								499	5820				12
13				7482	721								14
15	EF-121	50 A	3			7482	721			3	15 A	EF-126	16
17								7482	721				18
19				388	831								20
21	EF-299	15 A	3			388	831			3	**15 A**	**EF-BSC-1**	22
23								388	831				24
25				831	0								26
27	**EF-BSC-1**	**15 A**	3			831	0			3	100 A	SPARE	28
29								831	0				30
31				--	--								32
33	SPACE	--	3			--	--			3	--	SPACE	34
35								--	--				36
37				24941	24941								38
39	MCC-68	250 A	3			24941	24941			3	250 A	MCC-58	40
41								24941	24941				42
43				--	--								44
45	SPACE	--	3			--	--			3	--	SPACE	46
47								--	--				48
49				--	--								50
51	SPACE	--	3			--	--			3	--	SPACE	52
53								--	--				54
				TOTAL LOAD:	86685 VA		86685 VA		86685 VA				
				TOTAL AMP:	313 A		313 A		313 A				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Motor	4988 VA	112.50%	5612 VA		
POWER	255067 VA	100.00%	255067 VA	**CONNECTED LOAD:**	260 kVA
				DEMAND LOAD:	261 kVA
				TOTAL CONNECTED:	313 A
				TOTAL DEMAND:	314 A

NOTES:
BREAKERS SHOWN AS BOLD ARE NEW. ALL OTHERS ARE EXISTING TO REMAIN.
DESCRIPTIONS SHOWN AS BOLD INDICATE NEW CIRCUITING AND CIRCUIT NAME.

(E)PANEL NAME: MCC-38

PANEL LOCATION:
ENCLOSURE: TYPE 1
MOUNTING: FLOOR

MAIN: MLO
BUSSING: 400 A
GROUND BUS: STANDARD
NEUTRAL: 100.00%

VOLTAGE: 277/480 Wye
PHASE: 3
WIRE: 4
MIN A.I.C. RATING: 22KAIC

CKT	DESCRIPTION	BKR SIZE	P	A		B		C		P	BKR SIZE	DESCRIPTION	CKT
1				11080	3878								2
3	SF-3081	100 A	3			11080	3878			3	60 A	RF-3081	4
5								11080	3878				6
7				1330	1911								8
9	SF-24	15 A	3			1330	1911			3	15 A	EF-291	10
11								1330	1911				12
13				1025	3326								14
15	EF-292	15 A	3			1025	3326			3	**20 A**	**NEUMATIC BLOWER**	16
17								1025	3326				18
19				0	0								20
21	SPARE	20 A	3			0	0			3	20 A	SPARE	22
23								0	0				24
25				0	--								26
27	SPARE	20 A	3			0	--			3	--	SPACE	28
29								0	--				30
31				--	--								32
33	SPACE	--	3			--	--			3	--	SPACE	34
35								--	--				36
37				--	--								38
39	SPACE	--	3			--	--			3	--	SPACE	40
41								--	--				42
43				--	--								44
45	SPACE	--	3			--	--			3	--	SPACE	46
47								--	--				48
49				--	--								50
51	SPACE	--	3			--	--			3	--	SPACE	52
53								--	--				54
				TOTAL LOAD:	22549 VA		22549 VA		22549 VA				
				TOTAL AMP:	81 A		81 A		81 A				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Motor	44874 VA	118.52%	53184 VA		
POWER	22774 VA	100.00%	22774 VA	**CONNECTED LOAD:**	68 kVA
				DEMAND LOAD:	76 kVA
				TOTAL CONNECTED:	81 A
				TOTAL DEMAND:	91 A

NOTES:
BREAKERS SHOWN AS BOLD ARE NEW. ALL OTHERS ARE EXISTING TO REMAIN.
DESCRIPTIONS SHOWN AS BOLD INDICATE NEW CIRCUITING AND CIRCUIT NAME.

(E)PANEL NAME: MCC-28

PANEL LOCATION:
ENCLOSURE: TYPE 1
MOUNTING: FLOOR

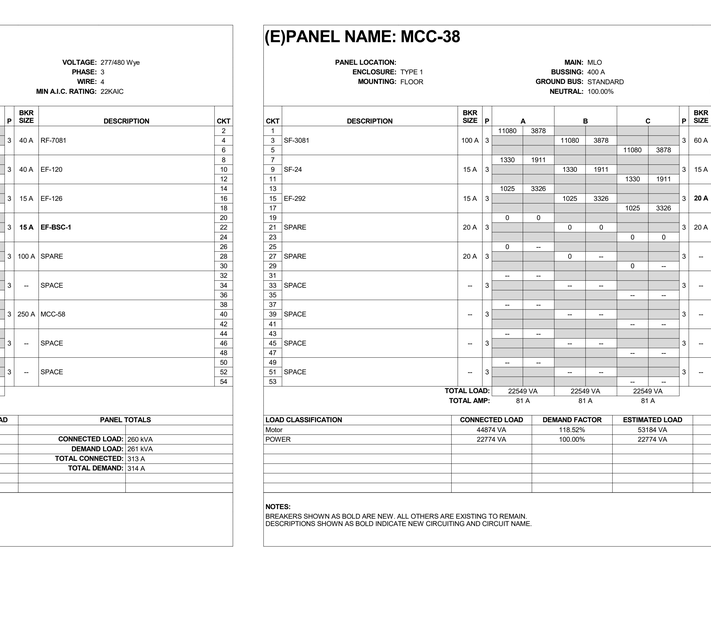
MAIN: MLO
BUSSING: 400 A
GROUND BUS: STANDARD
NEUTRAL: 100.00%

VOLTAGE: 277/480 Wye
PHASE: 3
WIRE: 4
MIN A.I.C. RATING: 22KAIC

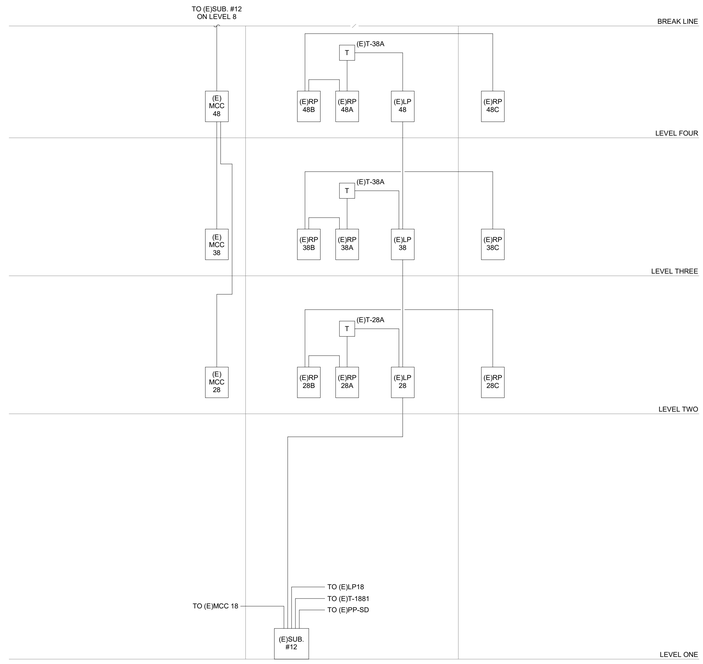
CKT	DESCRIPTION	BKR SIZE	P	A		B		C		P	BKR SIZE	DESCRIPTION	CKT
1				9422	5817								2
3	**SF-2081**	**70 A**	**3**			9422	5817			3	40 A	RF-2081	4
5								9422	5817				6
7				499	720								8
9	SF-23	15 A	3			499	720			3	15 A	EF-289	10
11								499	720				12
13				388	4988								14
15	EF-290	15 A	3			388	4988			3	**30 A**	**SF-2082**	16
17								388	4988				18
19				0	0								20
21	SPARE	20 A	3			0	0			3	20 A	SPARE	22
23								0	0				24
25				--	--								26
27	SPACE	--	3			--	--			3	--	SPACE	28
29								--	--				30
31				--	--								32
33	SPACE	--	3			--	--			3	--	SPACE	34
35								--	--				36
37				--	--								38
39	SPACE	--	3			--	--			3	--	SPACE	40
41								--	--				42
43				--	--								44
45	SPACE	--	3			--	--			3	--	SPACE	46
47								--	--				48
49				--	--								50
51	SPACE	--	3			--	--			3	--	SPACE	52
53								--	--				54
				TOTAL LOAD:	21834 VA		21834 VA		21834 VA				
				TOTAL AMP:	79 A		79 A		79 A				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Motor	14965 VA	125.00%	18706 VA		
POWER	50538 VA	100.00%	50538 VA	**CONNECTED LOAD:**	66 kVA
				DEMAND LOAD:	69 kVA
				TOTAL CONNECTED:	79 A
				TOTAL DEMAND:	83 A

NOTES:
BREAKERS SHOWN AS BOLD ARE NEW. ALL OTHERS ARE EXISTING TO REMAIN.
DESCRIPTIONS SHOWN AS BOLD INDICATE NEW CIRCUITING AND CIRCUIT NAME.



EMERGENCY POWER SYSTEM ONE-LINE DIAGRAM
NO SCALE — SHOWN FOR REFERENCE ONLY



NORMAL POWER SYSTEM ONE-LINE DIAGRAM
NO SCALE — SHOWN FOR REFERENCE ONLY

100% BID DOCUMENTS	10-JAN-2025
96% CONSTRUCTION DOCUMENTS (REVISED)	27-AUG-2024
95% CONSTRUCTION DOCUMENTS	15-APR-2024
65% DESIGN DEVELOPMENT	29-AUG-2023
Revisions:	Date:

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

Drawing Title: LOW VOLTAGE RISER DIAGRAM
Approved:
Phase: 100% BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE A2 SOUTH FOR CANCER CLINIC
Location: DETROIT, MI
Issue Date: 10-JAN-2025
Checked: SET
Drawn: FKU
Project Number: 553-21-100
Building Number:
Drawing Number: E-702

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