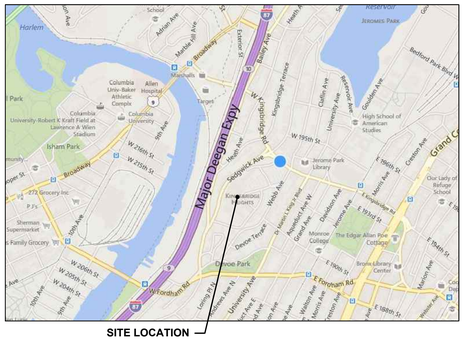
DEPARTMENT OF VETERANS AFFAIRS

JAMES J. PETERS MEDICAL CENTER

130 WEST KINGSBRIDGE ROAD
BRONX, N.Y. 10468



SITE LOCATION

LOCATION MAP

PROJECT TITLE:

REPAIR AND UPGRADE MORGUE REFRIGERATORS

VAMC PROJECT No. 526-20-508

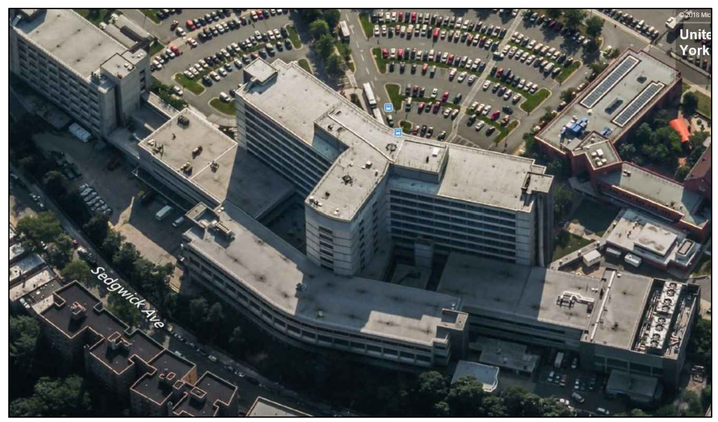
FELLENZER ENGINEERING L.L.P.
CONSULTING ENGINEERS

22 MULBERRY STREET MIDDLETOWN, NEW YORK 10940

INDEX OF DRAWINGS

SHEET #	DWG. #	DRAWING TITLE
1	GI-001	TITLE SHEET WITH INDEX TO DRAWINGS
2	100-PH-100	ARCHITECTURAL: PHASING AND ICRA PLAN
3	100-AS-001	ARCHITECTURAL: SYMBOLS, ABBREVIATIONS, NOTES, DETAILS & EQUIPMENT SCHEDULE
4	100-ASD-101	ARCHITECTURAL: 2nd FLOOR DEMOLITION PLAN
5	100-AS-101	ARCHITECTURAL: 2nd FLOOR CONSTRUCTION PLAN
6	100-HA-101	ASBESTOS ABATEMENT 2ND FLOOR ABATEMENT PLAN
7	100-MH-001	HVAC: SYMBOLS, ABBREVIATIONS, NOTES, DETAILS & EQUIPMENT SCHEDULES
8	100-MHD-101	HVAC: 2nd FLOOR DEMOLITION PLAN
9	100-MH-101	HVAC: 2nd FLOOR CONSTRUCTION PLAN
10	100-PL-001	PLUMBING: SYMBOLS, DETAILS, ABBREVIATIONS & NOTES
11	100-PLD-101	PLUMBING: 2nd FLOOR DEMOLITION PLAN
12	100-PL-101	PLUMBING: 2nd FLOOR CONSTRUCTION PLAN
13	100-FX-001	FIRE PROTECTION: SYMBOLS, ABBREVIATIONS & NOTES
14	100-FXD-101	FIRE PROTECTION: 2nd FLOOR DEMOLITION PLAN
15	100-FX-101	FIRE PROTECTION: 2nd FLOOR CONSTRUCTION PLAN
16	100-ES-001	ELECTRICAL: SYMBOLS, ABBREVIATIONS & NOTES
17	100-ESD-101	ELECTRICAL: 2nd FLOOR DEMOLITION PLAN
18	100-ES-101	ELECTRICAL: 2nd FLOOR CONSTRUCTION PLAN

BUILDING 100 - NORTH EAST

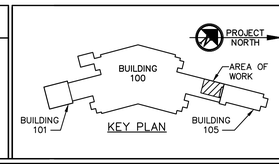


BUILDING 100 - SOUTH WEST

100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

DESIGN APPROVED W/ COMMENTS:	CONSULTANTS:	PROF. SEAL:	ARCHITECT/ENGINEERS:
REV # REVISION DESCRIPTION DATE		DANIEL STEINBERG, P.E. NY PROFESSIONAL ENGINEER NO. 076975-1 ISSUED 1999; EXP. 4/23	UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW. FELLENZER ENGINEERING LLP www.fellp.com FE PROJECT NO: 21-323 22 Mulberry St., Suite 2A, Middletown, NY 10940 t 845-343-1481; fx 855-320-8735 181 Church St., Suite 100, Poughkeepsie, NY 12601 t 845-454-9704; fx 855-320-8735



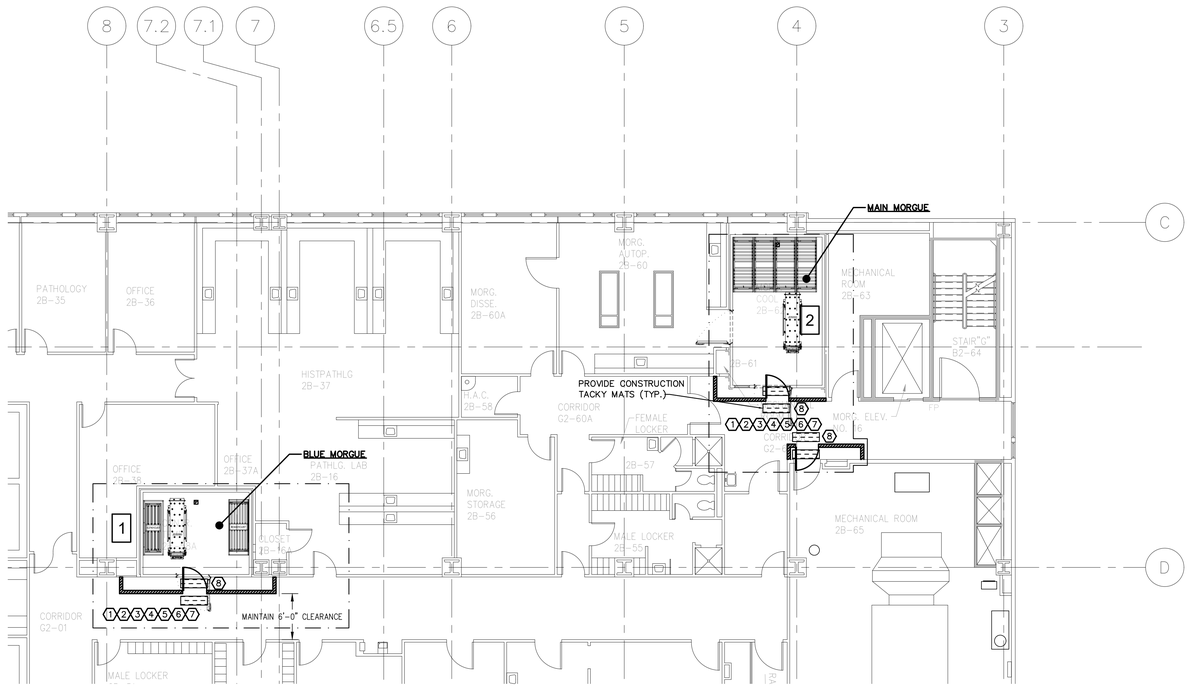
Drawing Title	TITLE SHEET WITH INDEX TO DRAWINGS
Approved Project Director	DEPT OF VETERANS AFFAIRS JAMES J. PETERS VA MEDICAL CENTER 130 WEST KINGSBRIDGE ROAD BRONX, NY 10468
Project Title	Repair and Upgrade Morgue Refrigerators
Location	BRONX, N.Y.
Date	3/8/24
Checked	DSS / JDF
Drawn	SA
Project Number	526-20-508
Building Number	100
Drawing Number	GI-001
Dwg.	1 of 18

Office of Construction and Facilities Management

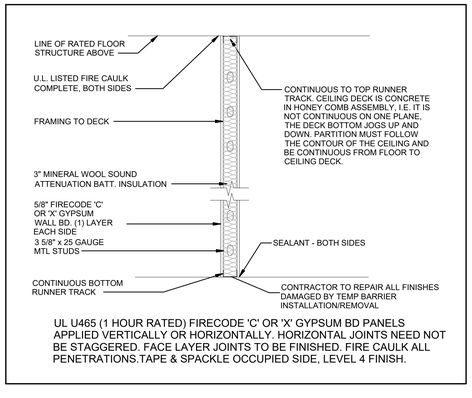
Department of Veterans Affairs

VA FORM 08-6231

File Name: C:\Users\sa\AppData\Local\Temp\AcPublish_14484_GI-001.dwg (Layout: GI-001)
Date: Fri, Mar 08, 2024 - 3:02 PM (Name, ea)
three quarters inch = one foot
one eighth inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one half inch = one foot
one and one half inches = one foot
one inch = one foot
three inches = one foot



1 ARCHITECTURAL: PHASING PLAN
SCALE: 1/8"=1'-0"



UL U465 (1 HOUR RATED) FIRECODE 'C' OR 'X' GYPSUM BD PANELS APPLIED VERTICALLY OR HORIZONTALLY. HORIZONTAL JOINTS NEED NOT BE STAGGERED. FACE LAYER JOINTS TO BE FINISHED. FIRE CAULK ALL PENETRATIONS.TAPE & SPACKLE OCCUPIED SIDE, LEVEL 4 FINISH.

2 TEMPORARY CONSTRUCTION PARTITION WALL DETAIL
N.T.S.

KEYED NOTES:

1. CLOSE OFF EXISTING DOOR OPENING INSTALL TWO LAYERS OF ½" TYPE 'X' SHEETROCK EITHER SIDE OF DOOR OPENING TO FORM A 1 HR. TEMPORARY CONSTRUCTION BARRIER.
2. ACCESS FOR UTILITY ISOLATION AND CHANGE-OVER ONLY.
3. PRIMARY ACCESS TO WORK SPACE THROUGHOUT CONSTRUCTION.
4. PROVIDE TEMPORARY SELF-CLOSING, U.L. LISTED ¾ HOUR FIRE RATED DOOR ASSEMBLY WHERE INDICATED AND AS REQUIRED TO FACILITATE CONSTRUCTION AND PROJECT PHASING.
5. CONTRACTOR TO PROVIDE AND OPERATE NEGATIVE PRESSURE MACHINES WITHIN THE WORK AREA OF EACH PHASE AS REQ'D TO MAINTAIN THE CONSTRUCTION AREAS NEGATIVE AIR PRESSURE RELATIONSHIP TO THE EXISTING ADJACENT FACILITIES. (QUANTITIES AND SIZES OF NEG AIR MACHINES AS REQ'D). ALL NEGATIVE AIR MACHINES TO BE PROPERLY VENTED TO THE EXTERIOR.
6. TEMPORARY CONSTRUCTION SEPARATION WITH SELF CLOSING DOOR. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGES CAUSED BY INSTALLATION OF TEMPORARY CONSTRUCTION BARRIERS.
7. CONTRACTOR TO PROVIDE AND INSTALL STEP AND PEEL OFF STICKY MATS (MIN 24"X30") AT EVERY CONSTRUCTION ACCESS DOOR AND SHALL MAINTAIN AND REPLACE AS REQ'D.
8. CONTRACTOR TO INSTALL A MANOMETER AT EACH CONSTRUCTION ENTRANCE TO ALLOW PROPER MONITORING OF THE NEGATIVE AIR PRESSURE RELATIONSHIP BETWEEN THE CONSTRUCTION AREA AND THE VA FACILITY

NOTES:

1. HARD WALL BARRIERS SHALL BE CONSTRUCTED WITHIN THE MAIN CORRIDORS AS PART OF THIS CONTRACT WORK. REFER TO "PARTITION BARRIER DETAIL" ON 1-PH-100.
2. CONTRACTOR SHALL PROVIDE REQUIRED INFECTION CONTROL PRECAUTIONS AS SHOWN IN CHART FOR ALL WORK PERFORMED UNDER THIS PROJECT.

GENERAL CONSTRUCTION ACTIVITY NOTES:

1. ALL AREAS OF CONSTRUCTION SHALL BE SECURED BY USE OF TEMPORARY PARTITION DURING ALL DEMOLITION AND CONSTRUCTION ACTIVITIES.
2. ALL CONSTRUCTION AREAS SHALL BE SECURELY LOCKED WHEN CONTRACTOR IS NOT PRESENT WORKING IN AREA.
3. MAINTAIN EMERGENCY EGRESS PATHS AT ALL TIMES DURING CONSTRUCTION.

PHASE 1 DEMOLITION NOTES:

1. EXISTING BLUE MORGUE STRUCTURE TO BE COMPLETELY DEMO'D AND REMOVED TO THE BARE WALLS AND CONCRETE SLABS AT FLOOR AND ABOVE CEILING. REMOVALS SHALL INCLUDE ALL REFRIGERATOR EQUIPMENT, CONTROLS, PIPING, AND SPRINKLER HEADS FOR REPLACEMENT.
2. SPRINKLER HEADS, LIGHT FIXTURES, TO BE REMOVED FIRST FROM THE CEILING.
3. REMOVE REFRIGERATOR EQUIPMENT ALONG WITH PIPING AND POWER.

PHASE 1 NEW CONSTRUCTION NOTES:

1. NEW BLUE MORGUE STRUCTURE SHALL BE CONSTRUCTED AND PUT TOGETHER BY THE COOLER MANUFACTURE, "MOPEC" OR EQUAL. STRUCTURE INCLUDES ALL WALLS, CEILINGS AND DOORS. ALSO INCLUDED AND INSTALLED ARE ALL ACCESSORIES SUCH AS LIGHT SWITCH, VAPOR PROOF LED FIXTURES, JUNCTION BOX, BLANK (FOAMED IN PLACE), COVE BASE, WALL GUARDS AND ALL OTHER ACCESSORIES FOR A COMPLETE SYSTEM.
2. REFRIGERATION SYSTEM TO BE INCLUDED BY THE MANUFACTURER INSTALLED BY THE MECHANICAL CONTRACTOR PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS AND THESE DRAWINGS AND SPECIFICATIONS.
3. ELECTRICAL CONTRACTOR SHALL POWER LIGHT FIXTURES AND REFRIGERATION SYSTEM PER COOLER MANUFACTURERS INSTRUCTIONS AND THESE DRAWINGS AND SPECIFICATIONS.

PHASE 2 DEMOLITION NOTES:

1. PHASE 2 DEMOLITION CAN NOT COMMENCE UNTIL THE BLUE MORGUE IS FULLY OPERATIONAL AND COMMISSIONED.
2. EXISTING MAIN MORGUE STRUCTURE TO BE COMPLETELY DEMO'D AND REMOVED TO THE BARE WALLS AND CONCRETE SLABS AT FLOOR AND ABOVE CEILING. REMOVALS SHALL INCLUDE ALL REFRIGERATOR EQUIPMENT, CONTROLS, PIPING, AND SPRINKLER HEADS FOR REPLACEMENT.
3. SPRINKLER HEADS, LIGHT FIXTURES, TO BE REMOVED FIRST FROM THE CEILING.
4. REMOVE REFRIGERATOR EQUIPMENT ALONG WITH PIPING AND POWER.

PHASE 2 NEW CONSTRUCTION NOTES:

1. NEW MAIN MORGUE STRUCTURE SHALL BE CONSTRUCTED AND PUT TOGETHER BY THE COOLER MANUFACTURE, "MOPEC" OR EQUAL. STRUCTURE INCLUDES ALL WALLS, CEILINGS AND DOORS. ALSO INCLUDED AND INSTALLED ARE ALL ACCESSORIES SUCH AS LIGHT SWITCH, VAPOR PROOF LED FIXTURES, JUNCTION BOX, BLANK (FOAMED IN PLACE), COVE BASE, WALL GUARDS AND ALL OTHER ACCESSORIES FOR A COMPLETE SYSTEM.
2. REFRIGERATION SYSTEM TO BE INCLUDED BY THE MANUFACTURER INSTALLED BY THE MECHANICAL CONTRACTOR PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS AND THESE DRAWINGS AND SPECIFICATIONS.
3. ELECTRICAL CONTRACTOR SHALL POWER LIGHT FIXTURES AND REFRIGERATION SYSTEM PER COOLER MANUFACTURERS INSTRUCTIONS AND THESE DRAWINGS AND SPECIFICATIONS.

LEGEND:

- # — PHASING STAGE
- APPROXIMATE OUTLINE OF PHASE BOUNDARY LINES (PARTITION LOCATION). COORDINATE WITH PROJECT DRAWING SET EXISTING WALLS. INFILL AND FIREPROOF ALL OPENINGS FROM FLOOR TO CONCRETE DECK ABOVE CEILING FOR A 1 HOUR FIRE RATED CONSTRUCTION BARRIER. CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS/REPLACEMENT OF FINISHES AS REQUIRED FOR INSTALLATION OF TEMPORARY BARRIERS.
- 1 HOUR RATED WEATHERPROOF TEMPORARY ENCLOSURE (INSULATED), TYPICAL OF ALL EXISTING WINDOW AND DOOR OPENINGS. SEE DRAWINGS.

Description of Required Infection Control Precautions by Class

	During Construction Project	Upon Completion of Project
Class II	1. Provide active means to prevent airborne dust from dispersing into atmosphere, which may include the use of a control cube.	1. Wipe work surfaces with disinfectant.
	2. Water mist work surfaces to control dust while cutting.	2. Contain construction waste before transport in tightly covered containers.
	3. Seal unused doors with masking tape.	3. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area.
	4. Block off and seal air vents.	4. Remove isolation of HVAC system in areas where work is being performed.
	5. Place adhesive dust mat at entrance and exit of work area.	
	6. Remove or isolate HVAC system in areas where work is being performed.	
	7. Doors and windows within the work zone to remain closed at all times except during ingress/egress.	
	8. Place adhesive mat at entrance and exit of work area as necessary.	
	9. Cover transport receptacles or carts.	
	10. Contain construction waste before transport in tightly covered containers.	
	11. Use designated removal route/elevators for removal of debris.	
	12. Wet mop and/or vacuum with HEPA filtered vacuum at end of day or end of work shift. Area to be free of dust and/or debris.	
Class III	1. Isolate HVAC system in area where work is being done to prevent contamination of duct system.	1. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Control Department, and thoroughly cleaned by the owner's Environmental Services Department.
	2. Complete all critical barriers, i.e., sheetrock, plywood, plastic, to seal area from non-work area or implement control cube method (cart with plastic covering and sealed connection to work site with HEPA vacuum for vacuuming prior to exit) before construction begins will stay in place until IC or PM authorizes removal.	2. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.
	3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. Both will be maintained until project terminal cleaning is completed and IC authorizes removal. Air pressure to be monitored & documented at least daily. Adhesive mats placed at all entrances & exists of work area.	3. Vacuum work area with HEPA filtered vacuums.
	4. Contain construction waste before transport in tightly covered containers.	4. Wet mop area with disinfectant.
	5. Cover transport receptacles or carts. Tape covering unless solid lid.	5. Remove isolation of HVAC system in areas where work is being performed.
	6. All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area.	6. Barriers will be removed carefully to minimize spreading of construction dust & debris.
	7. Do not remove barriers from work area until completed project is inspected by the owner's Safety Section and Infection Control Department, and thoroughly cleaned by the owner's Environment Services Department.	
	8. Designate entry and exit traffic pattern, unauthorized personnel are not permitted to enter work zone, traffic control signs placed.	
	9. The contractor shall maintain the construction zone in a clean manner • The area will be HEPA-vacuumed or damped mopped daily or more often as necessary to minimize dust, as determined by the VA COR. • Daily cleanup of debris, material and waste shall be completed. • Adhesive mats monitored & changed on a regular basis so that they remain effective. • Any dust or construction debris tracked outside of the work area shall be promptly cleaned.	
	10. Terminal cleaning will be performed following VA protocol.	
	11. The terminal cleaning will be inspected by the Owner prior to the authorization for the barrier removal.	
	12. Air samples may be performed following IC/Safety protocol as deemed necessary by the COR.	
Class IV	1. Isolate HVAC system in area where work is being done to prevent contamination of duct system.	1. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.
	2. Complete all critical barriers, i.e., sheetrock, plywood, plastic, to seal area from non-work area or implement control cube method (cart with plastic covering and sealed connection to work site with HEPA vacuum for vacuuming prior to exit) before construction begins.	2. Contain construction waste before transportation in tightly covered containers.
	3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.	3. Cover transport receptacles or carts. Tape covering unless solid lid.
	4. Contain construction waste before transport in tightly covered containers.	4. Vacuum work area with HEPA filtered vacuums.
	5. Cover transport receptacles or carts. Tape covering unless solid lid.	5. Wet mop area with disinfectant.
	6. All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area.	6. Remove isolation of HVAC system in areas where work is being performed.
	7. Do not remove barriers from work area until completed project is inspected by the owner's Safety Section and Infection Control Department, and thoroughly cleaned by the owner's Environment Services Department.	
	8. Seal all holes, pipes and conduits penetrations in work area.	
	9. Construct anteroom for staging of equipment & donning of coveralls.	
	10. Workers will were coveralls in work area. Upon completion of major dust generation activities, coverall requirement is removed	
	11. Coveralls are removed in work zone before entering anteroom.	
	12. Any residual dust left on workers shall be removed by vacuum.	
	13. All renovation, construction, maintenance & tool carts leaving area must be covered & the wheels wiped down with a disinfectant solution.	
	14. Environmental Management Services (EMS) or a contract cleaner will vacuum or damp mop the area outside the work zone and adjacent areas.	

PATIENT RISK GROUP FOR "TYPE B" CONSTRUCTION

SMALL SCALE, SHORT DURATION ACTIVITIES THAT CREATE MINIMAL DUST.

- INSTALLATION OF TELEPHONE AND COMPUTER CABLING.
- ACCESS TO CHASE SPACES
- CUTTING OF WALLS OR CEILINGS WHERE DUST MIGRATION CAN BE CONTROLLED.

LOW RISK GROUP	CLASS II
MEDIUM RISK GROUP	CLASS II
HIGH RISK GROUP	CLASS II
HIGHEST RISK GROUP	Class III / IV

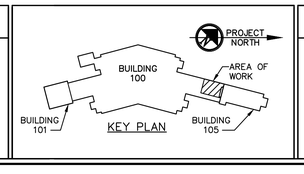
100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

DESIGN APPROVED W/ COMMENTS:

REV #	REVISION DESCRIPTION	DATE
–		–

CONSULTANTS:



PROF. SEAL:

DANIEL STEINBERG, P.E.
STATE OF NEW YORK
NY PROFESSIONAL ENGINEER NO. 076975
ISSUED 1995 EXP. 4/23

ARCHITECT/ENGINEERS:

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FELLENZER ENGINEERING LLP
FE PROJECT NO: 21-323
www.fellp.com
22 Mulberry St., Suite 2A, Middletown, NY 10940
t 845-343-1481; fx 855-320-8735
181 Church St., Suite 100, Poughkeepsie, NY 12601
t 845-454-9704; fx 855-320-8735

Drawing Title: **ARCHITECTURAL: PHASING AND ICRA PLAN**

Project Title: Repair and Upgrade Morgue Refrigerators

Project Number: 526-20-508

Building Number: 100

Approved Project Director: DEPT OF VETERANS AFFAIRS, JAMES J. PETERS VA MEDICAL CENTER, 130 WEST KINGSBRIDGE ROAD, BRONX, NY 10468

Location: BRONX, N.Y.

Date: 3/8/24 | Checked: DSS/ JDF | Drawn: JCL

Drawing Number: 100-PH-100

Dwg. 2 of 18

Office of Construction and Facilities Management

Department of Veterans Affairs

File Name: F:\2021\21-323 VA BRONX MORGUE, 2nd FLOOR\PH-100.dwg (Layout: PH-100)
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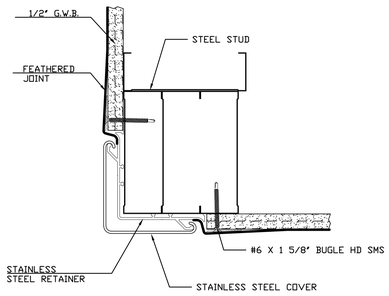
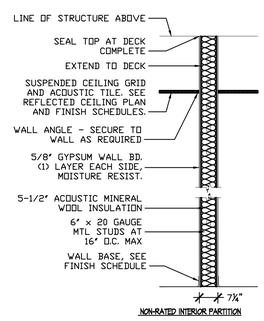
VA FORM 08-6231



1 CORNER GUARD RAILS
6"=1'-0"



2 PARTITION TYPES
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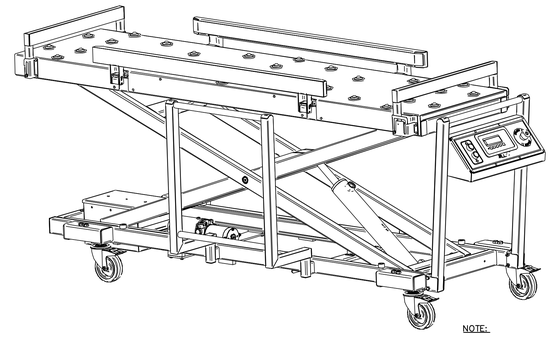


NOTE:
1. TYPICAL OF "MOPEC JD5000" OR EQUAL. PROVIDE TWO FOR THIS PROJECT.

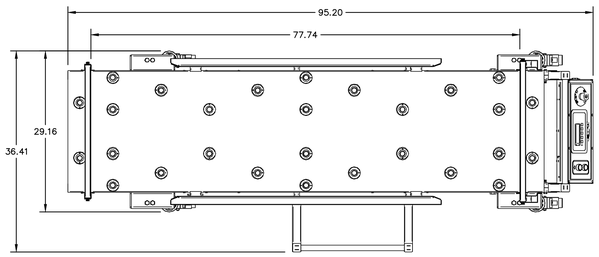
3 LIFT ISOMETRIC
N.T.S.

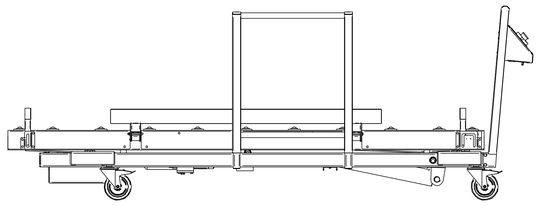
FINISH SCHEDULE

SYMBOL	ITEM	MANUFACTURER	NAME	COLOR *	REMARKS
P-1	URETHANE MORTAR FLOORING	STONHARD	STONSHIELD UTS	COBALT	URETHANE MORTAR FLOORING WITH SLIP RESISTANCE

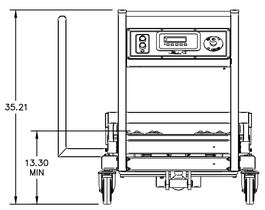
* - ALL COLOR CHOICES TO BE COORDINATED & FINALIZED BY VA COR

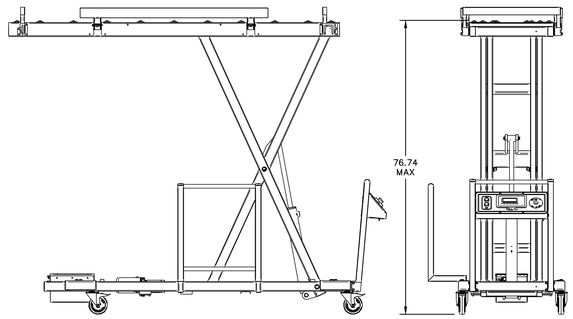
NOTES:
1. CONCRETE FLOOR SHALL INCLUDE A LAYER OF STONHARD PRIMER, TWO COATS OF A STONSHIELD AGGREGATE (ONE COAT OVER THE PRIMER AND ANOTHER COAT OVER THE UNDERCOAT), A STONSHIELD UNDERCOAT, AND A STONSHIELD SEALER. SEE MANUFACTURERS PRODUCT DATA SHEETS FOR APPLICATION INFORMATION/INSTRUCTIONS.
2. ALL FINISHES TO BE APPLIED BY A STONHARD CERTIFIED INSTALLER ONLY.
3. CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROPERLY VENTILATE THE SPACE DURING THE INSTALLATION PROCESS. ODOR MUST BE CONTROLLED TO THE BEST EXTENT FEASIBLE.





4 LIFT LOWERED POSITION
N.T.S.





5 LIFT RAISED POSITION
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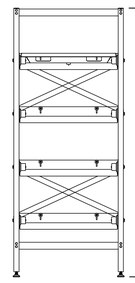

NOTE:
1. REFER TO DRAWINGS FOR SIZE AND QUANTITY TO BE PROVIDED.

6 INTERIOR RACK FRAMES
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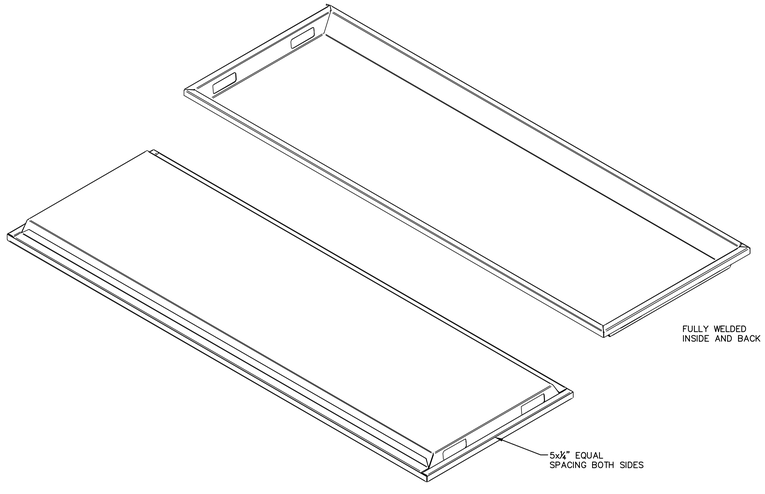


7 BODY TRAY
N.T.S.

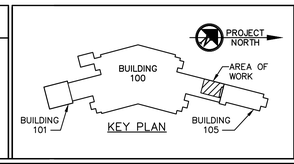
100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

DESIGN APPROVED W/ COMMENTS:

REV #	REVISION DESCRIPTION	DATE
-		-

CONSULTANTS:



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Middletown, NY 10940
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181 Church St., Suite 100,
Poughkeepsie, NY 12601
t 845-454-9704; fx 855-320-8735

Drawing Title: **ARCHITECTURAL- SYMBOLS, ABBREVIATIONS & NOTES**

Approved Project Director:
DEPT OF VETERANS AFFAIRS
JAMES J. PETERS VA MEDICAL CENTER
130 WEST KINGSBRIDGE ROAD
BRONX, NY 10468

Project Title: Repair and Upgrade Morgue Refrigerators

Location: **BRONX, N.Y.**

Date: 3/8/24 | Checked: DSS / JDF | Drawn: SA

Project Number: 526-20-508

Building Number: 100

Drawing Number: **100-AS-001**

Dwg. 3 of 18

Office of Construction and Facilities Management

Department of Veterans Affairs

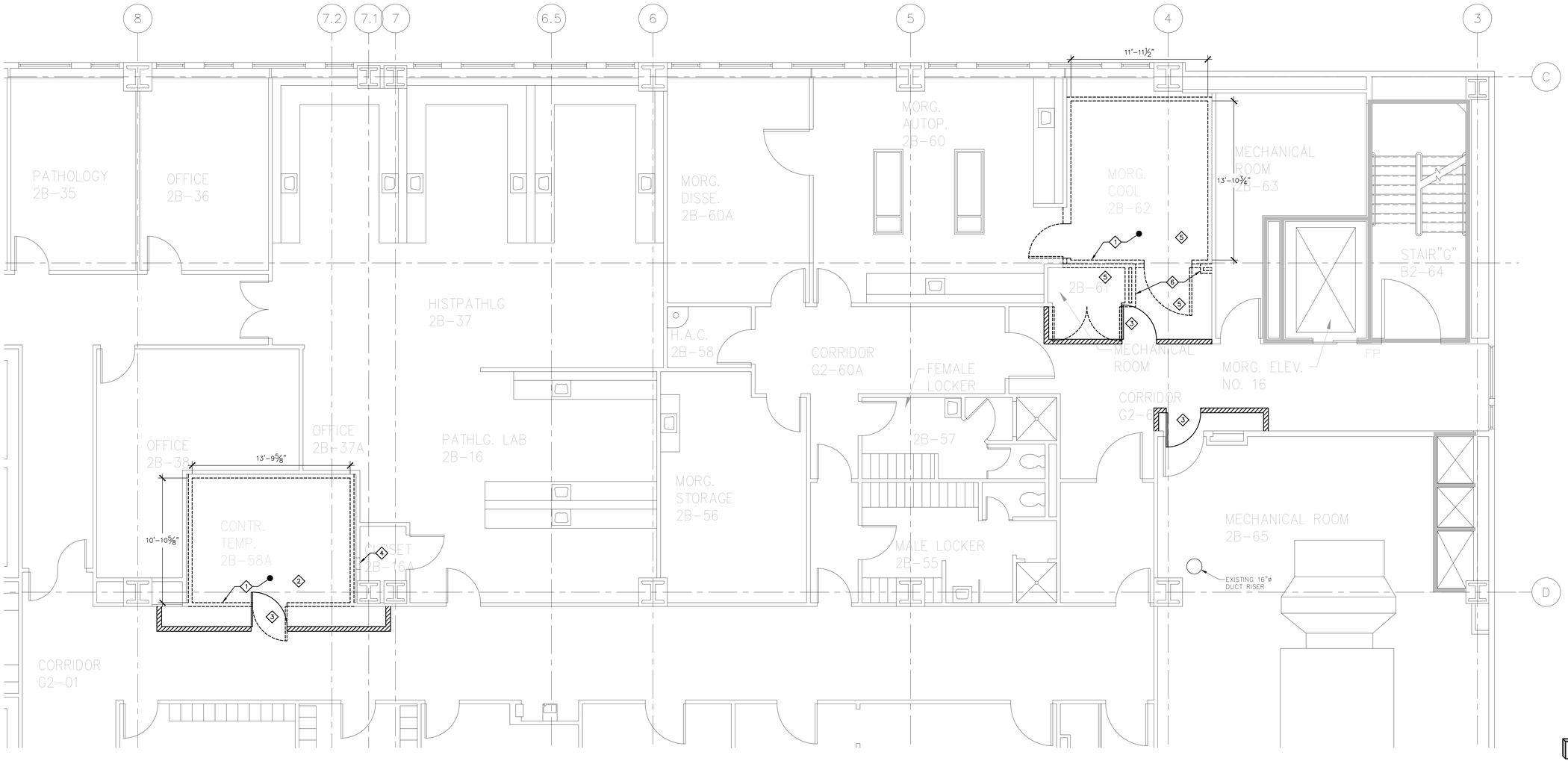
VA FORM 08-6231

File Name: F:\2021\21-523 VA BRONX MORGUE, 2nd FLOOR\ARCHITECTURAL\100-AS-001.dwg (Layout: AS-001)
Date & Plot: Mar 08, 2024 - 3:03 PM (Names: ek)

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

DEMOLITION KEYED NOTES:

1. THE MORGUE STRUCTURE TO BE COMPLETELY REMOVED TO THE BARE WALLS AND CONCRETE FLOOR SLAB AND UP TO STRUCTURE ABOVE CEILING INCLUDING MECHANICAL EQUIPMENT, ELECTRICAL CONNECTIONS BACK TO THEIR SOURCE ALONG WITH LIGHT FIXTURES, SPRINKLERS, PLUMBING SUPPORTS, ETC.
2. REMOVE RUBBER DIAMOND SURFACED FLOORING COMPLETELY TO THE BARE CONCRETE FLOOR SLAB.
3. PROVIDE SIGNAGE TO READ TEMPORARY CONSTRUCTION 'NO ENTRY'.
4. EXISTING ACCESS DOOR ABOVE CEILING TO REMAIN.
5. REMOVE EXISTING TILED FLOORING COMPLETELY TO THE CONCRETE FLOOR SLAB.
6. FIELD SURVEY FOUND NO UTILITIES IN THIS CHASE OTHER THAN POWER TO THE LIGHT SWITCH AND MORGUE CONTROL PANEL WHICH SHALL BE DEMOLISHED BY THE CONTRACTOR.



1 ARCHITECTURAL: 2ND FLOOR DEMOLITION PLAN
SCALE: 1/4"=1'-0"

100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

DESIGN APPROVED W/ COMMENTS:	CONSULTANTS:	PROF. SEAL:	ARCHITECT/ENGINEERS:
REV # | REVISION DESCRIPTION | DATE		DANIEL STEINBERG, P.E. NY PROFESSIONAL ENGINEER NO. 076975-1 ISSUED 1999 EXP. 4/23	UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW. FELLENZER ENGINEERING LLP www.fellp.com FE PROJECT NO: 21-323 22 Mulberry St., Suite 2A, Middletown, NY 10940 t 845-343-1481; fx 855-320-8735 181 Church St., Suite 100, Poughkeepsie, NY 12601 t 845-454-9704; fx 855-320-8735

KEY PLAN: BUILDING 100, BUILDING 101, BUILDING 105, AREA OF WORK, PROJECT NORTH

Drawing Title	ARCHITECTURAL: 2ND FLOOR DEMOLITION PLAN
Approved Project Director	DEPT OF VETERANS AFFAIRS JAMES J. PETERS VA MEDICAL CENTER 130 WEST KINGSBRIDGE ROAD BRONX, NY 10468
Project Title	Repair and Upgrade Morgue Refrigerators
Location	BRONX, N.Y.
Date / Checked / Drawn	3/8/24 / DSS/ JDF / SA
Project Number	526-20-508
Building Number	100
Drawing Number	100-ASD-101
Dwg.	4 of 18

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

File Name: F:\2021\21-323 VA BRONX MORGUE, 2nd FLOOR\ARCHITECTURAL\100-ASD-101 & AS-101.dwg (Layout: ASD-101)
Date: Fri, Mar 08, 2024 - 3:03 PM (Name: sa)

SPECIFICATIONS:

WALK-IN TYPE: INDOOR WALK-IN COOLER
BLUE MORGUE
APPROXIMATELY 14'-6" x 11'-4½" x 10'-0" (W x D x H)
MAIN MORGUE
APPROXIMATELY 12'-4" x 20'-0" x 10'-0" (W X D X H)

CONSTRUCTION:

WALLS: 4" THICK, DOW RF400, HIGH DENSITY FOAM RAILS
BASF, AUTOFROTH 100-B-1704 RESIN/15000A ISOCYANATE, HIGH DENSITY FOAM

CEILINGS: 5" THICK, DOW RF400, HIGH DENSITY FOAM RAILS
BASF, AUTOFROTH 100-B-1704 RESIN/15000A ISOCYANATE, HIGH DENSITY FOAM

FLOORS: URETHANE MORTAR FLOOR SYSTEM. STONHARD "STONSHIELD UTS" OR EQUAL.
COLOR PER OWNER: COBALT

FLOOR FINISH:

WALLS: 22GA. SMOOTH WHITE GALVANIZED STEEL W/ ANTI-MICROBIAL (INTERIOR)
22GA. SMOOTH STAINLESS STEEL W/ ANTI-MICROBIAL (EXPOSED EXTERIOR)
26GA. STUCCO EMBOSSED GALVANIZED STEEL (UNEXPOSED EXTERIOR)

CEILING: 22GA. SMOOTH WHITE GALVANIZED STEEL W/ ANTI-MICROBIAL (INTERIOR)
26GA. STUCCO EMBOSSED GALVANIZED STEEL (EXTERIOR)

COOLER DOOR: (3) FLUSH, COOLER DOOR (SEE DRAWNG FOR SIZES) WITH:
HEATED FRAME (3-SIDES) AND NON-HEATED THRESHOLD

FINISH: .22GA. SMOOTH WHITE GALV. W/ ANTI-MICROBIAL (INTERIOR)
22GA. STAINLESS STEEL W/ ANTI-MICROBIAL (EXTERIOR)
(3) KASON LATCH #10058CL5020 W/STRIKE #10058005002 AND INSIDE SAFETY RELEASE #10481SC0400
(9) KASON CAM-RISE HINGE #11245000048
(3) KASON DOOR CLOSER #11094000013 W/ HOOK #11094000027
(2) 36"HT. 16GA. STAINLESS STEEL KICKPLATES (INT. & EXT.), EACH
(1) 14GA. STAINLESS STEEL NON-HEATED THRESHOLD, EACH
(1) J-BOX FOR MAGLOCK SYSTEM (MAGLOCK BY OTHERS), EACH
(1) 14GA. STAINLESS STEEL NON-HEATED THRESHOLD, EACH
(3) DOOR SWITCH TO ACTIVATE RELIEF AIR DAMPER. SEE MH-101 AND ES-101.

ACCESSORIES: (2) KASON 1908-603 SERIES 3-WAY ROCKER SWITCH W/ PILOT LIGHT AND 1906-602 WATER PROOF COVER
(6) JUNCTION BOX WITH GFCI RECEPTACLE – RECEPTACLE SHIPPED LOOSE
(8) KASON 48" VAPOR PROOF LED LIGHT FIXTURE #11810LCT400
(2) JUNCTION BOX FOR TEMPERATURE SENSOR (FOAMED IN PLACE) –REF. DETAIL E1.5
(2) 1" x 4" VERTICAL TRIM 22GA. SMOOTH WHITE GALV. W/ ANTI-MICROBIAL
(2) 6"W. FLAT VERTICAL TRIM 22GA. SMOOTH WHITE GALV. W/ ANTI-MICROBIAL
SILICONE, CAULKING, SCREWS, HEX WENCH AND TRIM
6" NSF COVE BASE – FINISH TO MATCH (INT./EXT.)
(2) KASON 11832000004 HEATED AIR VENT
(2) CUSTOM CONTROL PANEL (1 EACH)
(2) 11GA. STEEL CEILING SUPPORT C-CHANNEL
(12) CEILING BRACKET

REFRIGERATION: REFER TO MECHANICAL DRAWINGS
(REQUEST MANUFACTURER'S LITERATURE IF MORE INFORMATION IS REQUIRED)

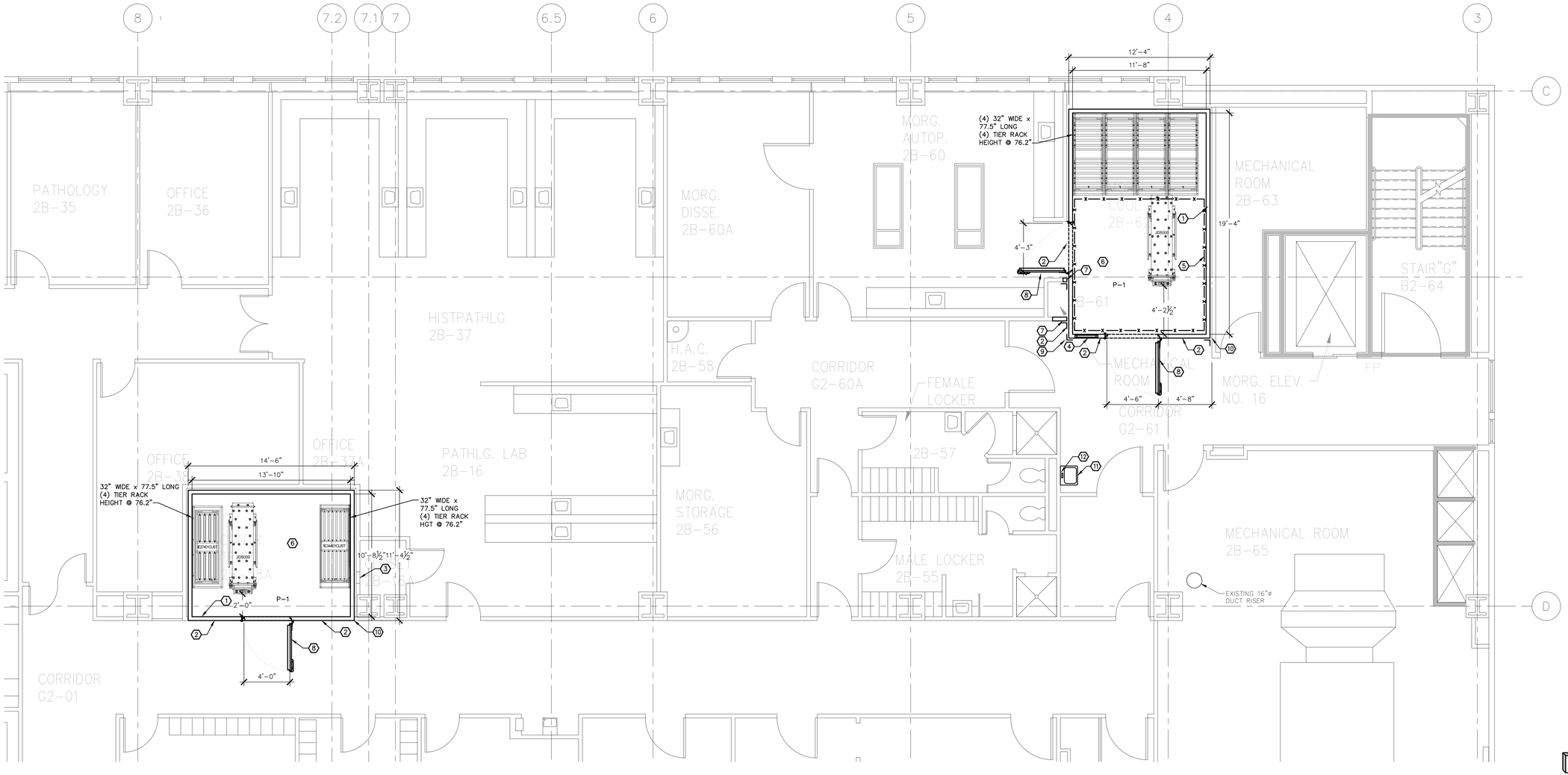
FLOORS: CAM LOCK CEILING
WALL-GUARDS PROVIDED BY OTHERS

NEW CONSTRUCTION KEYED NOTE:

1. INSTALL NEW PREMANUFACTURED POLYURETHANE WALLS AND CEILINGS. INSTALLATION SHALL FOLLOW MANUFACTURERS INSTRUCTIONS AND ALSO FOLLOW THE CONTRACT SPECIFICATIONS.
2. NEW STAINLESS STEEL PANEL, FLOOR TO ABOVE CEILING, TYPICAL.
3. EXISTING ACCESS DOOR ABOVE CEILING TO REMAIN.
4. WINDOW TO BE 24"Wx18"H INSULATED GLASS TYPE.
5. PROVIDE CURTAIN RAIL WITH CURTAIN AROUND SPACE.
6. PATCH EXISTING CONCRETE FLOOR AND PROVIDE A NEW URETHANE MORTAR FLOOR FINISH THROUGHOUT.
7. NEW METAL STUD WITH GYPSUM BOARD WALL SECTION, MATCH EXISTING WALL COLOR & BASE MOLDING.
8. NEW STAINLESS STEEL DOOR.
9. STAINLESS STEEL CORNER GUARD.
10. COMPLETE MORGUE SYSTEM AND ALL EQUIPMENT TO BE PROVIDED BY "MOPEC" OR EQUAL.
11. NEW WALL HUNG SINK.
12. PATCH AND PAINT WALL TO MATCH EXISTING.

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO SUBMITTING SHOP DRAWINGS.
2. PROVIDE NEW SPRAY-ON FIREPROOFING AT ALL LOCATIONS IT WAS AFFECTED.



1 ARCHITECTURAL: 2ND FLOOR CONSTRUCTION PLAN
SCALE: 1/4"=1'-0"

100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

DESIGN APPROVED W/ COMMENTS:		
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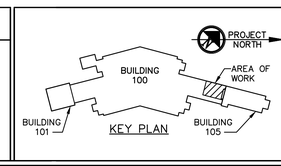
REV #	REVISION DESCRIPTION	DATE

CONSULTANTS:



PROF. SEAL:

DANIEL STEINBERG, P.E.
STATE OF NEW YORK
NY PROFESSIONAL ENGINEER
NO. 076975-1
ISSUED 1999 EXP. 4/25

ARCHITECT/ENGINEERS:

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

FELLENZER ENGINEERING LLP
www.fellp.com
FE PROJECT NO: 21-323
22 Mulberry St., Suite 2A, Middletown, NY 10940
t 845-343-1481; fx 855-320-8735
181 Church St., Suite 100, Poughkeepsie, NY 12601
t 845-454-9704; fx 855-320-8735

Drawing Title	**ARCHITECTURAL: 2ND FLOOR CONSTRUCTION PLAN**
Approved Project Director	DEPT OF VETERANS AFFAIRS JAMES J. PETERS VA MEDICAL CENTER 130 WEST KINGSBRIDGE ROAD BRONX, NY 10468
Project Title	Repair and Upgrade Morgue Refrigerators
Location	BRONX, N.Y.
Date	3/8/24
Checked	DSS/ JDF
Drawn	SA
Project Number	526-20-508
Building Number	100
Drawing Number	100-AS-101
Dwg.	5 of 18

Office of Construction and Facilities Management
Department of Veterans Affairs

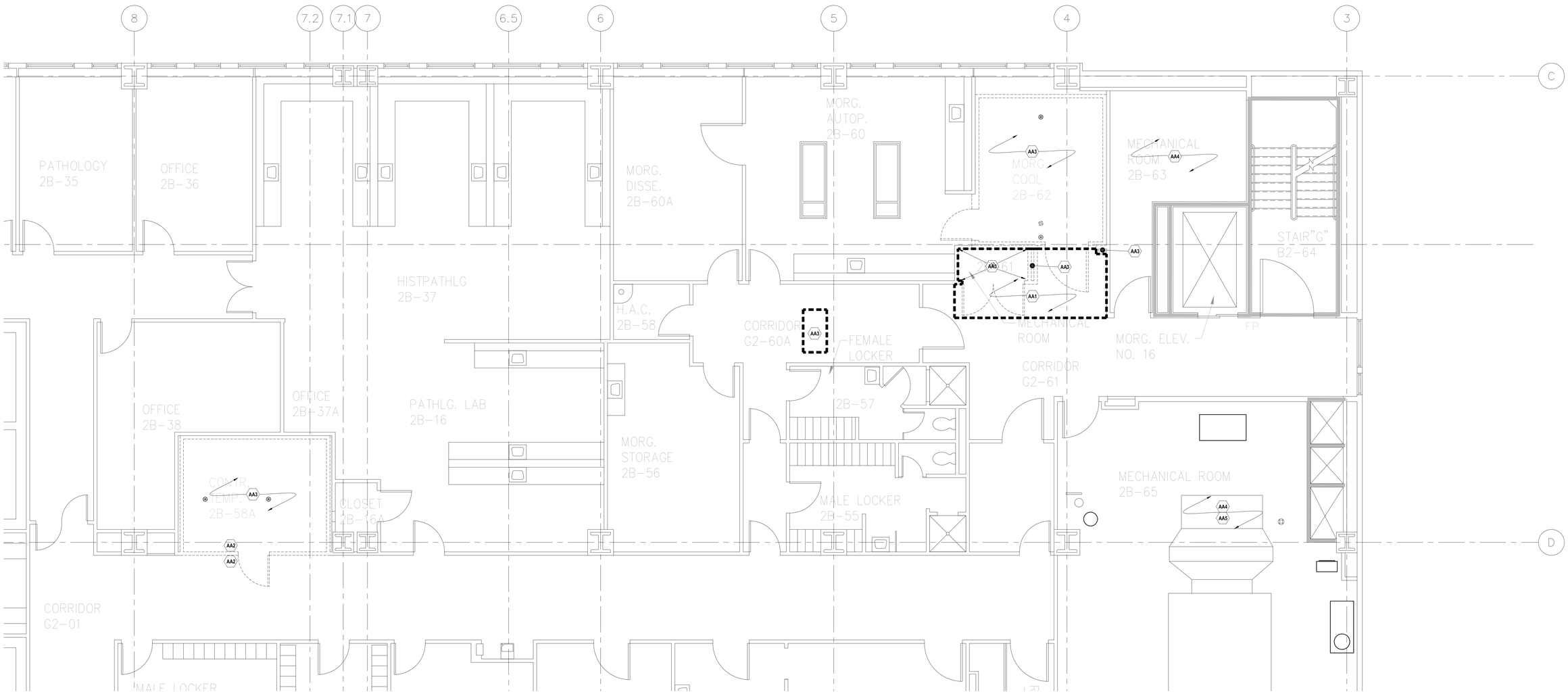
File Name: F:\2021\21-323 VA BRONX MORGUE, 2nd FLOOR\ARCHITECTURAL\100-ASD-101 & AS-101.dwg (Layout: AS-101)
Date: Fri, Mar 08, 2024 - 3:03 PM (Name: sa)

VA FORM 08-6231

ASBESTOS ABATEMENT KEYNOTES		QTY
AA1	REMOVE AND DISPOSE OF VAT & MASTIC ON CONCRETE FLOOR.	TYP. FOR 95 SQ. FT.
AA2	REMOVE AND DISPOSE OF POSITIVE SEALANT AT COOLER PROBES.	TYP. FOR 4 SQ. FT.
AA3	REMOVE AND DISPOSE OF ELECTRICAL WIRING, SWITCHES, LIGHT FIXTURES AND CONDUIT FROM COOLERS AND ROOFTOP EQUIPMENT AFTER THE SAME HAS BEEN DISCONNECTED FROM ITS POWER SOURCE BY A LICENSED ELECTRICIAN. COORDINATE REMOVALS WITH ELECTRICAL DEMOLITION PLANS	TYP. FOR 400 LIN. FT.
AA4	VERMICULITE CONTAINING SPRAY-ON FIREPROOFING IS LOCATED ON THE STRUCTURAL MEMBERS. REMOVE 1 SQ. FT. OF MATERIAL AT EACH REFRIGERANT PIPING SUPPORT LOCATION, TYP. FOR 12 LOCATIONS. SEE ARCHITECTURAL FOR PATCHING REQUIREMENTS.	TYP. FOR 12 SQ. FT.
AA5	VERMICULITE CONTAINING WALL PLASTER IS LOCATED ON THE WALLS. CORE DRILL THROUGH EXISTING PLASTER AS REQUIRED FOR ELECTRICAL AND MECHANICAL PIPING PENETRATIONS, TYP FOR 6 PENETRATIONS.	TYP. FOR 3 SQ. FT.
	NOTE: WHERE MASTIC IS INDICATED TO BE REMOVED, ALL MASTIC SHALL BE REMOVED IN ITS ENTIRETY FROM FLOOR SUBSTRATE.	

GENERAL NOTES

1. ASBESTOS ABATEMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATION AND APPLICABLE REGULATIONS. PERSONNEL HOLDING CURRENT NEW YORK STATE DEPARTMENT OF LABOR (NYSDOL) ASBESTOS HANDLER'S CERTIFICATES SHALL PERFORM THE WORK. ADDITIONALLY, THE CONTRACTOR MUST EMPLOY NYSDOL CERTIFIED SUPERVISORS TO BE ON THE WORK SITE FOR ALL ABATEMENT ACTIVITIES. THE CONTRACTOR MUST BE CURRENTLY LICENSED BY THE NYSDOL. ALL CERTIFICATES AND LICENSES ARE TO BE READILY AVAILABLE FOR VERIFICATION BY THE VETERANS AFFAIRS MEDICAL CENTER (VAMC).
2. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL ASBESTOS–CONTAINING MATERIALS AND ASBESTOS–CONTAMINATED MATERIALS WITHIN THE SPECIFIED AREAS.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL QUANTITIES OF ASBESTOS–CONTAINING MATERIALS.
4. CONTRACTOR IS RESPONSIBLE FOR PRECLEANING ANY EXISTING ASBESTOS CONTAMINATION, DUST AND DEBRIS WITHIN THE REMOVAL AREAS.
5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF BUILDING FINISHES. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGES CAUSED BY ABATEMENT ACTIVITIES OR HIS PERSONNEL.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE SCOPE OF WORK UNDER THIS CONTRACT.
7. THE WORK WILL BE PHASED TO ACCOMMODATE THE VAMC FACILITY REQUIREMENTS. WORK MAY HAVE TO BE PERFORMED OFF–HOURS, WEEKENDS AND AT NIGHT AT NO ADDITIONAL COST TO THE VAMC.
8. THE PROJECT SHALL BE FILED AS A LARGE PROJECT WITH THE NYSDOL AND USEPA.



1 2ND FLOOR ABATEMENT PLAN
SCALE: 1/4"=1'-0"

100% CONSTRUCTION SUBMISSION

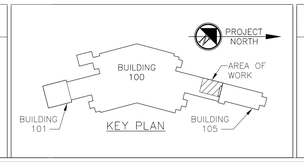
FULLY SPRINKLERED

DESIGN APPROVED W/ COMMENTS:

REV #	REVISION DESCRIPTION	DATE
—		—

CONSULTANTS:

Adelaide ENVIRONMENTAL HEALTH
1511 Route 22 - Suite C-24
Brewster, New York 10509
p: 845.278.7710 f: 845.278.7750
adelaidellc.com
Environmental Consultants



PROF. SEAL:

REGISTERED ARCHITECT PAUL RICHARD VOLGO 027811 STATE OF NEW YORK
REGISTRATION EXPIRES: 08/31/2026

ARCHITECT/ENGINEERS:

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

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181 Church St., Suite 100, Poughkeepsie, NY 12601 t 845-454-9704; fx 855-320-8735

Drawing Title: ASBESTOS ABATEMENT 2ND FLOOR ABATEMENT PLAN

Approved Project Director: DEPT OF VETERANS AFFAIRS, JAMES J. PETERS VA MEDICAL CENTER, 130 WEST KINGSBRIDGE ROAD, BRONX, NY 10468

Project Title: Repair and Upgrade Morgue Refrigerators

Location: BRONX, N.Y.

Date: 7/7/23 | Checked: DSS/ JDF | Drawn: PCHEC

Project Number: 526-20-508

Building Number: 100

Drawing Number: 100-HA-101

Dwg. 6 of 18

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

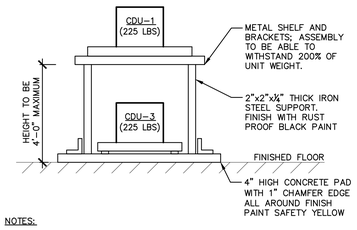
File Name: Y:\DistStation_001\232\E132\homes\public\Project Files\Adelaide\Bronx VA Morgue - Full - VAA\Abatement Plans & Specs\Drawing Files\Sheet Files\HA-100.dwg (Layout: ASD-101)
Date: Wed, Mar 06, 2024 - 9:55 AM (Name: pchec)

HVAC DEMOLITION NOTES:

1. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT AREAS TO BE DEMOLISHED.
2. REMOVE ALL EQUIPMENT, DUCTWORK AND PIPING AS INDICATED ON PLAN. REMOVALS SHALL INCLUDE ALL SUPPORTS AND HANGERS, HOUSEKEEPING PADS, VALVES, FITTINGS, CONTROLS AND ASSOCIATED LOW VOLTAGE WIRING, AND ANY OTHER ASSOCIATED ACCESSORIES WHICH PERTAIN TO THE EQUIPMENT TO BE REMOVED.
3. REMOVAL OF ALL POWER CONNECTIONS TO DEMOLITION ITEMS SHALL BE BY THE E.C.
4. ANY DISCREPANCIES BETWEEN THE DEMOLITION PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER. ANY DEMOLITION WORK WHICH MAY BE QUESTIONABLE DUE TO UNFORESEEN FIELD CONDITIONS SHALL NOT BE REMOVED UNTIL REVIEWED BY THE ARCHITECT, ENGINEER OR THE VA BUILDING FACILITIES MANAGER.
5. DEMOLITION WORK SHALL INCLUDE THE PREPARATION OF EXISTING EQUIPMENT FOR CONNECTION TO NEW EQUIPMENT. COORDINATE DEMOLITION WORK WITH THE CONSTRUCTION PLANS.
6. ALL EQUIPMENT REMOVALS SHALL BECOME THE PROPERTY OF THIS CONTRACTOR. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF DEMOLITION ITEMS OFF-SITE, UNLESS OTHERWISE NOTED.
7. ALL CUTTING AND PATCHING NECESSARY FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
8. IT SHALL BE THE OWNER'S RESPONSIBILITY TO REMOVE ANY LOOSE EQUIPMENT, FURNITURE, SUPPLIES, ETC. THAT MAY BE LOCATED IN THE AREA OF WORK.
9. THE PLANS ARE INTENDED TO CONVEY THE EXTENT AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM INTENDED FOR REMOVAL MAY NOT BE SHOWN. THE CONTRACTOR IS ADVISED TO SURVEY THE PROJECT SITE BEFORE SUBMITTING A BID FOR DEMOLITION WORK.

GENERAL NOTES:

1. THE DRAWINGS ON THESE PLANS ARE DIAGRAMMATIC. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL HVAC WORK WITH OTHER TRADES AND THE BUILDING STRUCTURE. NO EXTRA PAYMENTS WILL BE AUTHORIZED FOR REROUTING OR REMOVAL OF INSTALLED WORK DUE TO LACK OF COORDINATION WITH OTHER SYSTEMS.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF HIS WORK.
3. ACCESS PANELS SHALL BE PROVIDED IN CEILINGS, WALLS, FLOORS, ETC., AS REQUIRED TO MAINTAIN ACCESSIBILITY TO VALVES, DAMPERS, TRAPS, COILS, ETC.
4. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.
5. PROVIDE SHUT-OFF VALVES AT ALL PIPING BRANCH TAKE-OFFS AND AT ALL CONNECTIONS TO EQUIPMENT.
6. PROVIDE DRAINS WITH HOSE ADAPTERS AND CAPS ON PIPING AT ALL LOW POINTS. PROVIDE MANUAL VENTS ON PIPING AT ALL HIGH POINTS.
7. COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR.
8. ALL MOTOR STARTERS SHALL BE FURNISHED BY THE HVAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
9. ALL REQUIRED CONTROL EQUIPMENT AND WIRING SHALL BE FURNISHED & INSTALLED BY THE HVAC CONTRACTOR.
10. THE TERMS "PROVIDE" OR "FURNISH", AS USED ON THESE PLANS, INDICATE THAT THE CONTRACTOR IS TO FURNISH AND INSTALL THE REFERENCED EQUIPMENT OR SYSTEMS IN THEIR ENTIRETY AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
11. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS INDICATED ON DETAIL SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM.
12. CONTRACT CLOSE OUT: IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT; DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES.
13. IT IS THE INTENT AND PURPOSE OF THESE SPECIFICATIONS AND DRAWINGS TO INCLUDE AND PROVIDE FOR ALL MATERIALS, APPLIANCES AND LABOR TO PROPERLY COMPLETE AND LEAVE IN PERFECT WORKING CONDITION THE ENTIRE SYSTEM HEREINAFTER SPECIFIED. ANY MATERIAL, LABOR OR APPLIANCE NOT SPECIFICALLY MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION MUST BE FURNISHED BY THIS CONTRACTOR.
14. REFER TO SPECIFICATION 232113 FOR HYDRONIC PIPING, VALVES, AND FITTINGS PROVIDED.
15. PROVIDE IDENTIFICATION AND LABELS TO ALL PIPING AND EQUIPMENT.

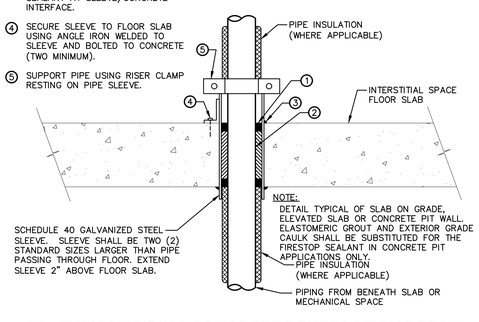


NOTES:

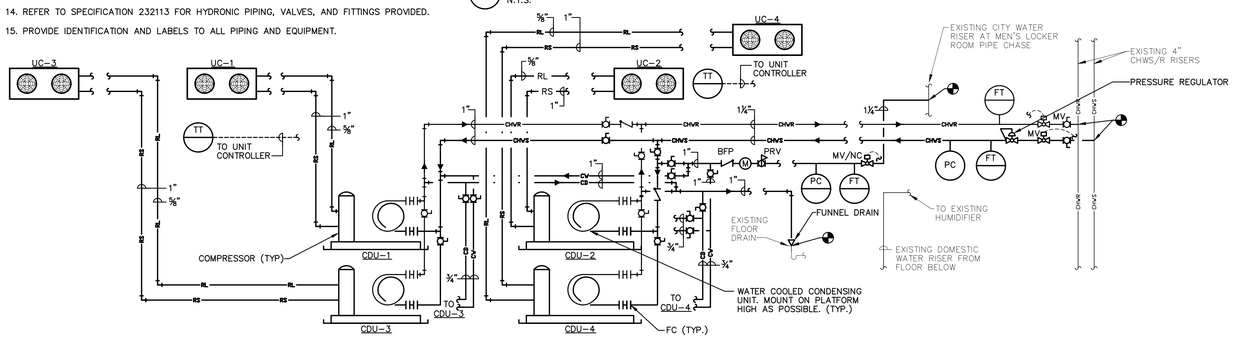
1. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR WATER COOLED CONDENSING UNIT SPECIFICATIONS.
2. ELECTRICAL POWER TO WATER COOLED CONDENSING UNIT BY ELECTRICAL CONTRACTOR.
3. SUPPORT FOR CDU-2 & CDU-4 TO BE SIMILAR.
4. MAINTAIN FULL SERVICE CAPABILITY OF CONDENSING UNITS.

1 WATER COOLED CONDENSING UNIT MOUNTING DETAIL
N.T.S.

1. 1" MINIMUM THICK ELASTOMERIC FIRESTOP SEALANT CAULK. PROVIDE AT TOP AND BOTTOM OF SLEEVE.
2. FILL ANNULAR SPACE WITH MINERAL WOOL BATTING.
3. PROVIDE ELASTOMERIC FIRESTOP SEALANT AT SLEEVE/CONCRETE INTERFACE.
4. SECURE SLEEVE TO FLOOR SLAB USING ANGLE IRON WELDED TO SLEEVE AND BOLTED TO CONCRETE (TWO MINIMUM).
5. SUPPORT PIPE USING RISER CLAMP RESTING ON PIPE SLEEVE.



3 TYPICAL PIPING CONCRETE PENETRATION DETAIL
N.T.S.



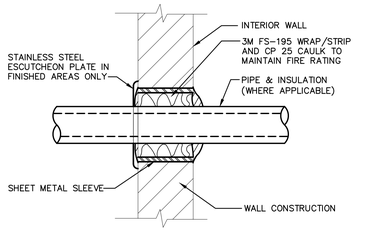
5 CHILLED WATER AND CITY WATER PIPING AND CONTROLS SCHEMATICS
N.T.S.

WALK-IN COOLER EQUIPMENT SCHEDULE

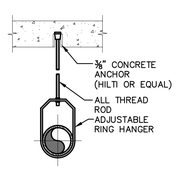
MOPEC BASIS OF DESIGN

SYSYTEM NO.	PHYSICAL DATA: COMPRESSOR TYPE	UNIT MODEL #	UNIT HP	STD RCVR CAP(90%)	REFRIG CONN (ODS): LIQUID	REFRIG CONN (ODS): SUCTION	SOUND dBA*	NET WEIGHT	WATER (OD)	GPM GAL/MIN	WATER DP (PSI)	ELECTRICAL DATA: VOLTAGE CHARACTERISTICS: VOLTS	PHASE	HERTZ	COMPRESSOR: RLA	LRA	AIR DEFROST**: MCA	MOCP	REMARKS
CDU-1/ UC-1	SCROLL	RW0150E45D/ RL6A117ADA	1.5	11.6 LB'S	⅝"	1"	68	205 LB'S	¾"	4.8	2.7	208/230	1	60	11.3	55	15.1	25	PRIMARY SYSTEM
CDU-2/ UC-2	SCROLL	RW0150E45D/ RL6A117ADA	1.5	11.6 LB'S	⅝"	1"	68	205 LB'S	¾"	4.8	2.7	208/230	1	60	11.3	55	15.1	25	PRIMARY SYSTEM
CDU-3/ UC-3	SCROLL	RW0150E45D/ RL6A117ADA	1.5	11.6 LB'S	⅝"	1"	68	205 LB'S	¾"	4.8	2.7	208/230	1	60	11.3	55	15.1	25	STAND-BY SYSTEM
CDU-4/ UC-4	SCROLL	RW0150E45D/ RL6A117ADA	1.5	11.6 LB'S	⅝"	1"	68	205 LB'S	¾"	4.8	2.7	208/230	1	60	11.3	55	15.1	25	STAND-BY SYSTEM

NOTE:
1. THE MCA AND MOPD VALVES INCLUDE AN ALLOWANCE OF (1) AMP FOR THE CONTROL CIRCUIT.
2. WALK-IN COOLER EQUIPMENT SHALL BE COMPLETE WITH THE FOLLOWING FROM THE MANUFACTURER:
   A. INSULATED WALL PANELS
   B. INSULATED CEILING PANELS
   C. ALUMINUM METAL FINISH FLOORING.
3. LIGHT FIXTURES, CONTROLS TO BE INTEGRATED WITH THE BMS, AND ALL OTHER ITEMS/EQUIPMENT FOR A COMPLETE SYSTEM.
4. ROOM TEMPERATURE TO BE SET AT 35°F.
5. INSTALLING CONTRACTOR SHALL CONSULT WITH THE MANUFACTURER FOR PROPER SIZES OF THE REFRIGERANT PIPING BEFORE ORDERING AND INSTALLING THE SYSTEM.



2 RATED WALL PENETRATION DETAIL
N.T.S.



HANGER DETAIL - CONCRETE DECK
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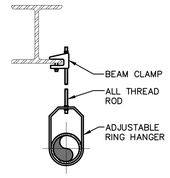


BEAM CLAMP HANGER DETAIL
N.T.S.

4 PIPE HANGER DETAIL
N.T.S.

VALVE SYMBOLS

- GATE VALVE – THREADED/FLANGED
- GATE VALVE WITH 3/4" HOSE ADAPTER
- GLOBE VALVE – THREADED/FLANGED
- CHECK VALVE
- STRAINER
- WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
- STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
- FLEXIBLE CONNECTION
- ANGLE GLOBE VALVE
- BALL VALVE
- PRESSURE REGULATING VALVE
- PRESSURE REDUCING VALVE (PRV)
- TWO POSITION CONTROL VALVE
- AUTOMATIC BALANCING CONTROL VALVE
- WATER BALANCE DEVICE
- WATER FLOW MEASURING DEVICE
- CIRCUIT SETTER VALVE
- FLOW METER
- COMBINATION BALANCING AND SHUT-OFF VALVE
- MANUAL AIR VENT
- TEST PLUG (PRESSURE/TEMPERATURE)
- PLUG VALVE
- LUBRICATED PLUG VALVE

ABBREVIATIONS

AC	AIR CONDITIONING UNIT	MER	MECHANICAL EQUIPMENT ROOM
AFF	ABOVE FINISHED FLOOR	MAX.	MAXIMUM
BFP	BACK FLOW PREVENTOR	M.C.	MECHANICAL CONTRACTOR
CDU	CONDENSING UNIT	MBH	ONE THOUSAND BTUH
CW	COLD WATER	MIN.	MINIMUM
D	DRAIN	MV	MOTORIZED CONTROL VALVE
DN	DOWN	NC	NORMALLY CLOSED
DP	DIFFERENTIAL PRESSURE	NOM.	NOMINAL
DX	DIRECT EXPANSION	OA	OUTSIDE AIR
EA	EXHAUST AIR	P.C.	PLUMBING CONTRACTOR
EAT	ENTERING AIR TEMP	PD	PRESSURE DROP (FEET OF WATER)
E.C.	ELECTRICAL CONTRACTOR	PRV	PRESSURE REDUCING VALVE
ECC	ENGINEERING CONTROL CENTER	UC	UNIT COOLER
EER	ENERGY EFFICIENCY RATIO	VIF	VERIFY IN FIELD
FC	FLEXIBLE CONNECTION	Wb	WET BULB TEMPERATURE, °F
GPM	GALLONS PER MINUTE	WFM	WATER FLOW MEASURING DEVICE
H.C.	HVAC CONTRACTOR	WMS	WIRE MESH SCREEN
HP	HORSEPOWER	WCCU	WATER COOLED CONDENSING UNIT

PIPING SYMBOLS

- DIRECTION OF FLOW
- ANCHOR
- PIPE GUIDE
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- TOP CONNECTION, 45° OR 90°
- BOTTOM CONNECTION, 45° OR 90°
- SIDE CONNECTION
- CAPPED OUTLET
- PIPE DOWN TURN
- PIPE RISE
- UNION
- DIRECTION OF PIPE PITCH (DOWN)

GENERAL SYMBOLS

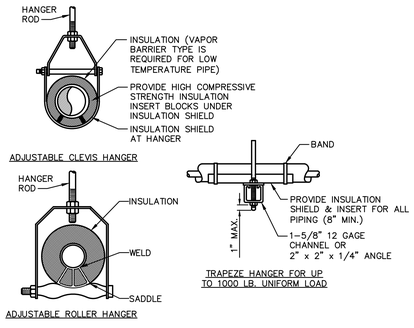
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- POINT OF DISCONNECT
- X / XX — INDICATES SECTION LETTER / INDICATES DRAWING NUMBER WHERE LOCATED

HVAC LINE TYPES

- EXISTING EQUIPMENT/DUCT TO BE REMOVED
- EXISTING EQUIPMENT/DUCT TO REMAIN
- NEW EQUIPMENT / DUCT
- CHWR — CHILLED WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CD — CONDENSATE DRAIN
- RD — REFRIGERANT DISCHARGE
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION

CONTROLS SYMBOLS

ECC	ENGINEERING CONTROL CENTER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
MV	MOTORIZED VALVE
T	ROOM THERMOSTAT/TRANSMITTER - WALL MOUNT
M	ROOM HUMIDISTAT (MOISTURE)/TRANSMITTER - WALL MOUNT
TT	TEMPERATURE TRANSMITTER
TT	TEMPERATURE TRANSMITTER, AVERAGING ELEMENT
FT	FLOW TRANSMITTER
IT	CURRENT TRANSMITTER
ZC	VALVE OR DAMPER POSITION CONTROLLER
TSL	TEMPERATURE SWITCH, LOW (FREEZESTAT)
SST	START/STOP
⊠	DISCONNECT SWITCH
LTCP	LOCAL TEMPERATURE CONTROL PANEL
ECC	INTEGRATE CONTROL POINT ON REMOTE GRAPHICS WORKSTATION AT ENERGY CONTROL CENTER
TC	TEMPERATURE CONTROLLER. SEE SEQUENCE OF OPERATION
PC	PRESSURE CONTROLLER. SEE SEQUENCE OF OPERATION
DS	DOOR SWITCH



INDIVIDUAL PIPE HANGER ROD & SPACING SCHEDULE

NOMINAL PIPE DIAMETER (IN.)	3/4	1	1 1/2	2	2 1/2	3	4	5	6	–
HANGER ROD SIZE (IN.)	3/8	3/8	3/8	3/8	1/2	1/2	5/8	5/8	7/8	–
	MAXIMUM SUPPORT SPACING (FT.)									
STEEL PIPE	6	7	9	10	11	12	14	16	17	–
COPPER TUBE	6	6	8	9	10	10	12	14	14	–

NOTE: TRAPEZE HANGER SPACING SHALL BE BASED ON SPACING OF SMALLEST PIPE ON TRAPEZE. TRAPEZE SHALL BE DESIGNED WITH A FACTOR OF SAFETY OF 5 FOR CENTER OF SPAN CONCENTRATED LOAD

6 TYPICAL PIPE HANGERS
N.T.S.

JOB: 561A4-18-116
CONTROLS POINTS LIST

SYSTEM: MORGUE REFRIGERATORS / SYSTEM COMPONENT:	POINT ID	ABBREVIATION	POINT LEGEND: SPACE TEMPERATURE (ANALOG)	SYSTEM OUTPUTS: BINARY	SYSTEM OUTPUTS: ANALOG	SYSTEM INPUTS: BINARY: CHILLED WATER FLOW	SYSTEM INPUTS: BINARY: CITY WATER FLOW	SYSTEM INPUTS: BINARY: EXHAUST DAMPER DOOR SWITCH	SYSTEM INPUTS: ANALOG: CHILLED WATER FLOW	SYSTEM INPUTS: ANALOG: CITY WATER FLOW	SYSTEM INPUTS: ANALOG: EXHAUST DAMPER DOOR SWITCH	SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING: CHILLED WATER FLOW	SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING: CITY WATER FLOW	SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING: EXHAUST DAMPER DOOR SWITCH	SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: CHILLED WATER FLOW	SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: CITY WATER FLOW	SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: EXHAUST DAMPER DOOR SWITCH	REMARKS
Refrig Suction Temp	RST		●															
Space Temp	T		●															
Chilled Water Flow	FT					●									●			
City Water Flow	FT						●									●		
Morgue Temperature	TT								●	●	●							
Exhaust Damper Door Switch	DS							●						●			●	

SEQUENCE OF OPERATION OF MORGUE COOLER CONTROL SYSTEM

1. CHILLED WATER FOR WATER COOLED CONDENSING UNIT.
   A. MORGUE COOLER WITH INSTALLED BACNET PLC. SEE CONTROL POINTS.
   B. PROVIDE ALL ALARMS SUCH AS LOSS OF FLOW, FLOW SENSOR, HIGH TEMPERATURE AND COMMON ALARM.
   C. TIE MORGUE EQUIPMENT TO BE CONNECTED TO THE BUILDING'S TEMP TRACK SYSTEM IN THE ECC.
   D. REFER TO SPEC SECTIONS 117813 FOR FURTHER CONTROLS INFORMATION & REQUIREMENTS.
   E. THE MORGUE DOOR SHALL HAVE A DOOR SWITCH MOUNTED TO DOOR FRAME TO OPEN THE MOTORIZED DAMPER AT THE 6x6 RELIEF GRILLE AT THE CEILING. REFER TO SPEC SECTION 117813, 2.5, A&B.
   F. THE ROOM TEMPERATURE FOR BOTH MORGUES TO BE 35°F, USER ADJUSTABLE.

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FULLY SPRINKLERED

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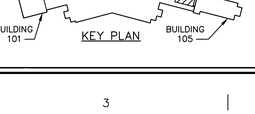

PROF. SEAL:

DANIEL STEINBERG, P.E.
STATE OF NEW YORK
NY PROFESSIONAL ENGINEER NO. 076975-1 ISSUED 1999, EXP. 4/23

ARCHITECT/ENGINEERS:

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181 Church St., Suite 100, Poughkeepsie, NY 12601 t 845-454-9704; fx 855-320-8735

Drawing Title: **HVAC: SYMBOLS, ABBREVIATIONS, NOTES, DETAILS & EQUIPMENT SCHEDULES**

Approved Project Director: DEPT OF VETERANS AFFAIRS, JAMES J. PETERS VA MEDICAL CENTER, 130 WEST KINGSBRIDGE ROAD, BRONX, NY 10468

Project Title: Repair and Upgrade Morgue Refrigerators

Location: BRONX, N.Y.

Date: 3/8/24 | Checked: DSS / JDF | Drawn: SA

Project Number: 526-20-508

Building Number: 100

Drawing Number: 100-MH-001

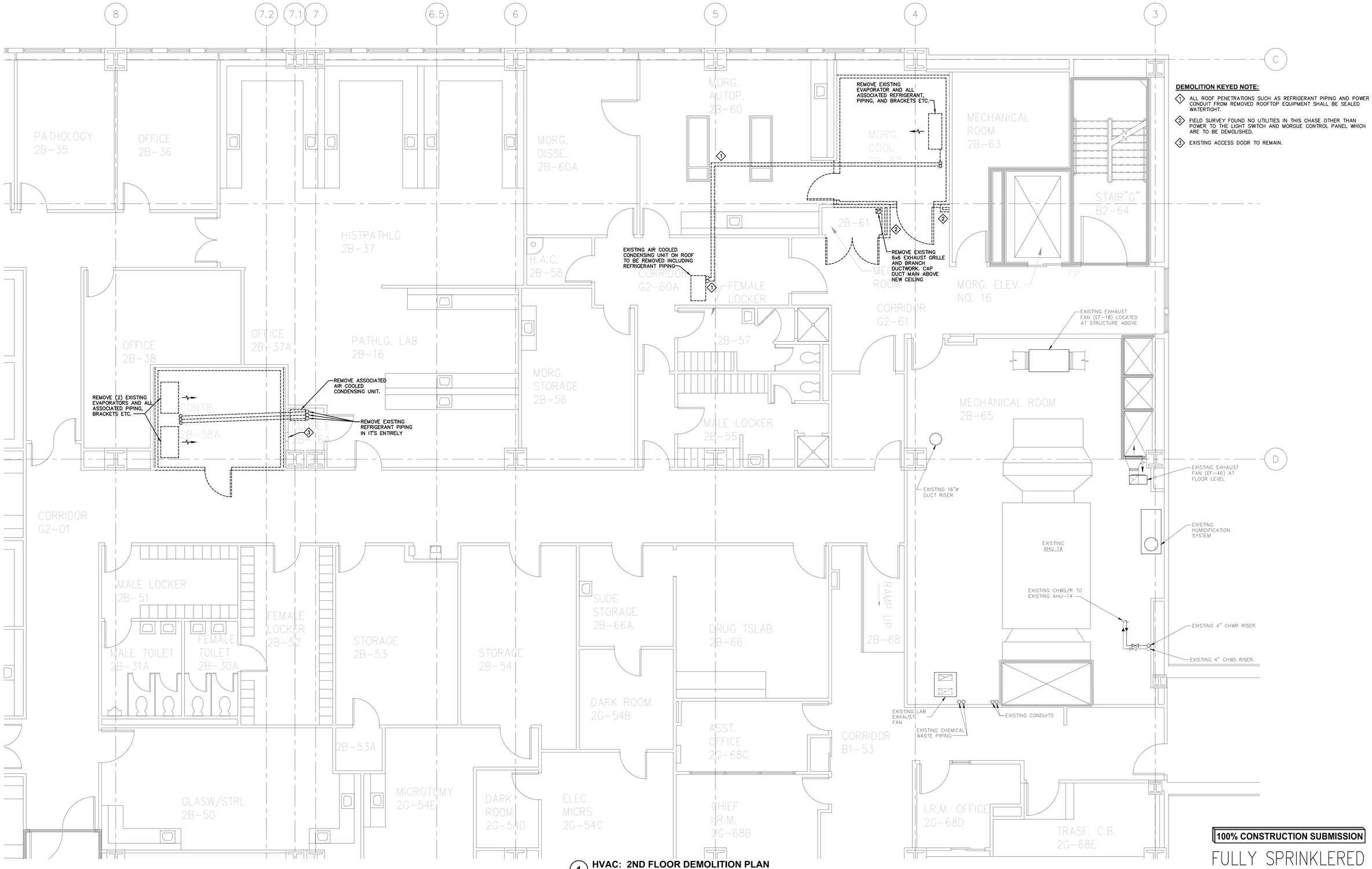
Dwg. 7 of 18

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

File Name: F:\2021\21-323 VA BRONX MORGUE, 2nd FLOOR\MECHANICAL\100-MH-001.dwg (Layout: MH-001)
Date: Fri, Mar 08, 2024 - 3:03 PM (Xrefs: ok)



DEMOLITION KEYED NOTE:

1. ALL ROOF PENETRATIONS SUCH AS REFRIGERANT PIPING AND POWER CONDUIT FROM REMOVED ROOFTOP EQUIPMENT SHALL BE SEALED WATERTIGHT.
2. FIELD SURVEY FOUND NO UTILITIES IN THIS CHASE OTHER THAN POWER TO THE LIGHT SWITCH AND MORGUE CONTROL PANEL WHICH ARE TO BE DEMOLISHED.
3. EXISTING ACCESS DOOR TO REMAIN.

100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

1 **HVAC: 2ND FLOOR DEMOLITION PLAN**
SCALE: 1/4"=1'-0"

DESIGN APPROVED W/ COMMENTS:		
REV #	REVISION DESCRIPTION	DATE

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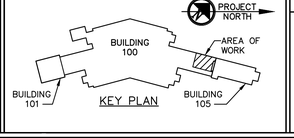

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181 Church St., Suite 100, Poughkeepsie, NY 12601 t 845-454-9704; fx 855-320-8735

Drawing Title: **HVAC: 2ND FLOOR DEMOLITION PLAN**

Approved Project Director: DEPT OF VETERANS AFFAIRS, JAMES J. PETERS VA MEDICAL CENTER, 130 WEST KINGSBRIDGE ROAD, BRONX, NY 10468

Project Title: Repair and Upgrade Morgue Refrigerators

Location: BRONX, N.Y.

Date	Checked	Drawn
3/8/24	DSS/ JDF	SA

Project Number: 526-20-508

Building Number: 100

Drawing Number: 100-MHD-101

Dwg. 8 of 18

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

File Name: F:\2021\21-323 VA BRONX MORGUE, 2nd FLOOR\MECHANICAL\100-MHD-101 & MH-101.dwg (Layout: MHD-101)
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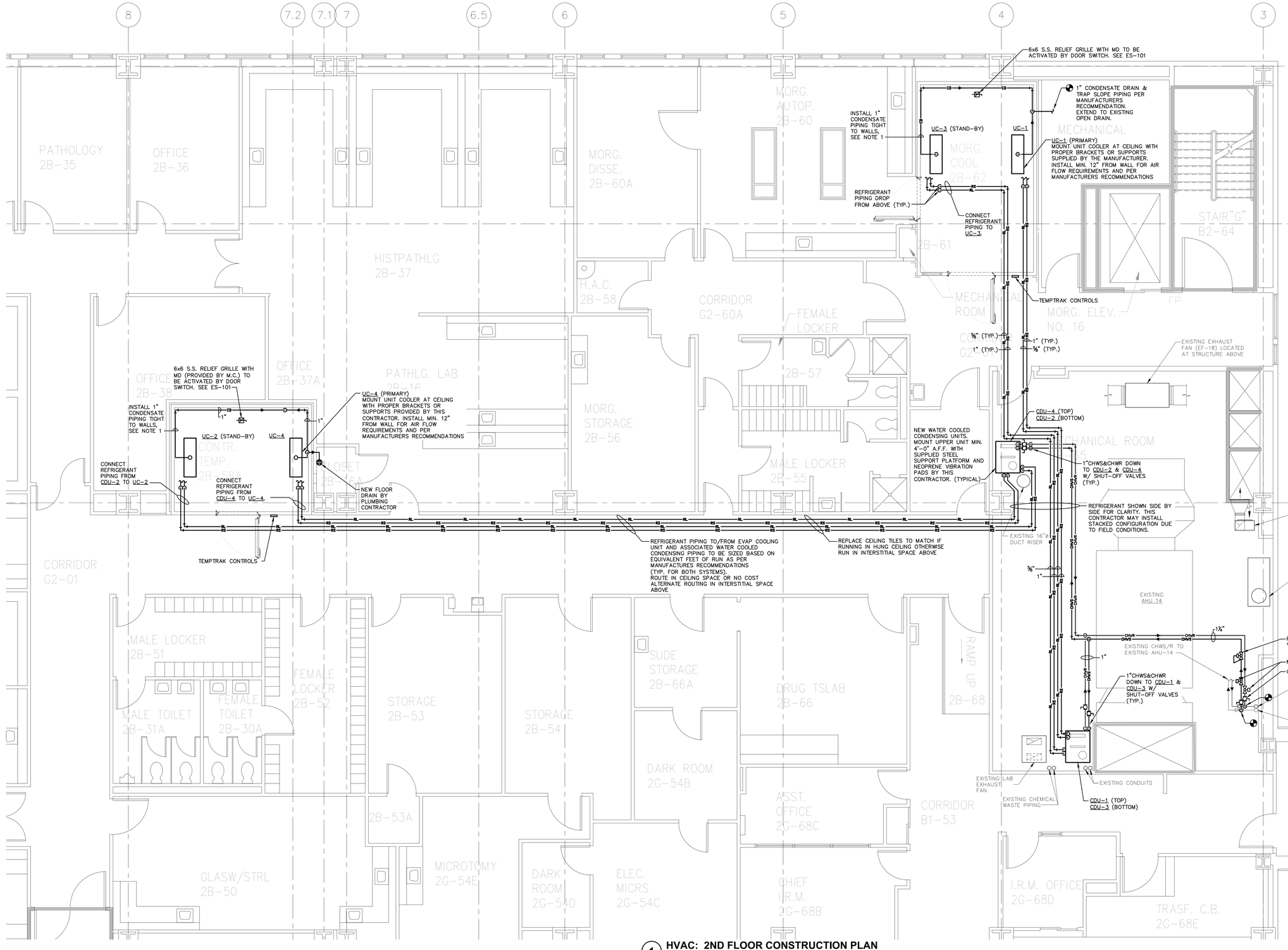

REFRIGERATION NOTES:

NOTE:
LOCATION OF EQUIPMENT TO BE FIELD COORDINATED

1. MOPEC INSTALLER TO PROVIDE FINAL CONNECTION TO REFRIGERATION PIPE SET FROM CONDENSING UNITS TO EVAPORATOR COILS.
2. MOPEC INSTALLER TO COORDINATE WITH GENERAL CONTRACTOR ON APPROVED REFRIGERATION PIPE ROUTE FROM CONDENSING UNITS TO EVAPORATOR COILS ON COLD ROOMS BEFORE PIPING INSTALLATION CAN BE PERFORMED.
3. MOPEC INSTALLER TO FURNISH AND INSTALL SOURCE OF POWER FROM COOLER CONTROL PANEL TO EVAPORATOR FANS, LLS, LIGHTS, DOOR HEAT, HEATED VENT, GFCI OUTLET, AND OTHER RELATED ACCESSORIES LISTED IN CONTROL PANEL DRAWINGS SUBMITTED.
4. MOPEC INSTALLER TO INSTALL LOW VOLTAGE WIRING TO TEMPERATURE & HUMIDITY SENSOR AT COLD ROOM. CONNECT WITH HOSPITAL BMS.
5. MOPEC INSTALLER TO FURNISH AND INSTALL COOLER CONDENSATE DRAIN PIPE WITH CLEAN OUT TO FLOOR DRAIN OF BUILDING.
6. MOPEC INSTALLER TO COORDINATE WITH GENERAL CONTRACTOR ON APPROVED CONDENSATE PIPE ROUTE FROM EVAPORATOR COILS TO BUILDING DRAIN ON WALK-IN COOLER BEFORE PIPING INSTALLATION CAN BE PERFORMED.
7. HOUSEKEEPING PADS AND RACKS, FOR CONDENSING UNITS SUPPLIED AND INSTALLED BY THIS CONTRACTOR.
8. WALK-IN COOLER CONDENSING UNIT, COORDINATE EXACT LOCATIONS WITH COOLER MANUFACTURER.
9. ALL CONDENSING UNITS REQUIRE A MINIMUM OF 3 FEET OF PERIMETER SPACE ON SERVICEABLE SIDES FROM ANY OBSTRUCTION.

GENERAL NOTES:

1. COORDINATE HEIGHT OF CONDENSATE PIPING WITH NEW RACK SYSTEM. ROUTE BELOW CEILING JOISTS.
2. FIRESTOP ALL FLOOR AND WALL PENETRATIONS.

100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

1 HVAC: 2ND FLOOR CONSTRUCTION PLAN

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

REV #	REVISION DESCRIPTION	DATE
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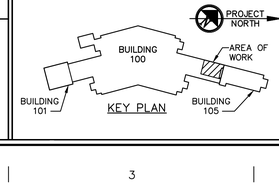

PROF. SEAL:

DANIEL STEINBERG, P.E.
STATE OF NEW YORK
NY PROFESSIONAL ENGINEER
NO. 076975
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Project Number: 526-20-508

Building Number: 100

Drawing Number: 100-MH-101

Dwg. 9 **of** 18

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

File Name: F:\2021\CA-323 VA BRONX MORGUE, 2nd FLOOR\MECHANICAL\100-MHD-101 & MH-101.dwg (Layout: MH-101)
Date: Fri, Mar 08, 2024 - 3:04 PM (Xrefs: us)

GENERAL NOTES:

1. THE DRAWINGS ON THESE PLANS ARE DIAGRAMMATIC. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH OTHER TRADES AND THE BUILDING STRUCTURE. NO EXTRA PAYMENTS WILL BE AUTHORIZED FOR REROUTING OR REMOVAL OF INSTALLED WORK DUE TO LACK OF COORDINATION WITH OTHER SYSTEMS.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF HIS WORK.
3. THIS CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS AS REQUIRED WHERE ACCESSIBILITY TO COMPONENTS (VALVES, TRAPS, CLEANOUTS, ETC.) IS REQUIRED FOR MAINTENANCE AND/OR SYSTEM OPERATION.
4. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.
5. ALL PENETRATIONS THROUGH FOUNDATIONS AND EXTERIOR WALLS SHALL BE SEALED WITH EDPM OR EDPM RUBBER GASKET AND SEALED WITH A WATERPROOF, NON-HARDENING SEALANT.
6. ALL EXPOSED DOMESTIC WATER DISTRIBUTION PIPING IS TO BE INSULATED.
7. PROVIDE SHUT-OFF VALVES AT ALL BRANCH PIPING TAKE-OFFS (UNO) AND AT ALL CONNECTIONS TO EQUIPMENT. PROVIDE UNIONS AT ALL EQUIPMENT CONNECTIONS.
8. PROVIDE DRAINS WITH HOSE ADAPTERS AND CAPS ON PIPING AT ALL LOW POINTS. PROVIDE MANUAL VENTS ON PIPING AT ALL HIGH POINTS.
9. COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR.
10. ALL REQUIRED MOTOR STARTERS SHALL BE FURNISHED BY THIS CONTRACTOR AND INSTALLED BY THE E.C.
11. ALL REQUIRED CONTROL EQUIPMENT AND WIRING SHALL BE FURNISHED & INSTALLED BY THIS CONTRACTOR.
12. THE TERMS "PROVIDE" OR "FURNISH", AS USED ON THESE PLANS, INDICATE THAT THE CONTRACTOR IS TO FURNISH AND INSTALL THE REFERENCED EQUIPMENT OR SYSTEMS IN THEIR ENTIRETY AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
13. CONTRACTOR SHALL PROVIDE ALL COMPONENTS INDICATED ON DETAIL SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM.
14. CONTRACT CLOSE OUT: IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT; DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES.
15. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE ALTERATIONS AND/OR NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS TO PROVIDE COMPLETE NEW SYSTEMS IN EVERY RESPECT, CAPABLE OF OPERATING AS DESIGNED. IT IS NOT INTENDED THAT EVERY FITTING, MINOR DETAIL OR FEATURE BE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAIL NECESSARY FOR COMPLETION OF THESE SYSTEMS IN ACCORDANCE WITH GOOD PRACTICE.

GENERAL PLUMBING NOTES:

1. REFER TO SPECIFICATIONS FOR PIPING AND VALVES REQUIRED FOR COMPLETE AND OPERABLE SYSTEM.
2. UNLESS OTHERWISE NOTED, ALL VALVES 2"ø & SMALLER SHALL BE QUARTER-TURN BALL VALVES AND ALL VALVES 2½" & LARGER SHALL BE GATE VALVES. ALL VALVES SHALL BE OF FULL-PORT DESIGN.
3. PLUMBING CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED & PAY ALL FEES.

PLUMBING DEMOLITION NOTES:

1. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT AREAS TO BE DEMOLISHED.
2. REMOVE ALL EQUIPMENT AND PIPING AS INDICATED ON PLAN. REMOVALS SHALL INCLUDE ALL FITTINGS, SUPPORTS AND HANGERS.
3. ANY DISCREPANCIES BETWEEN THE DEMOLITION PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER. ANY DEMOLITION WORK WHICH MAY BE QUESTIONABLE DUE TO UNFORESEEN FIELD CONDITIONS SHALL NOT BE REMOVED UNTIL REVIEWED BY THE ARCHITECT, ENGINEER OR BUILDING FACILITIES MANAGER.
4. DEMOLITION WORK SHALL INCLUDE THE PREPARATION OF EXISTING EQUIPMENT OR PIPING FOR CONNECTION TO NEW WORK. COORDINATE DEMOLITION WORK WITH THE CONSTRUCTION PLANS.
5. ALL EQUIPMENT REMOVALS SHALL BECOME THE PROPERTY OF THIS CONTRACTOR. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF DEMOLITION ITEMS OFF-SITE, UNLESS OTHERWISE NOTED.
6. ALL CUTTING AND PATCHING NECESSARY FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
7. IT SHALL BE THE OWNER'S RESPONSIBILITY TO REMOVE ANY LOOSE EQUIPMENT, FURNITURE, SUPPLIES, ETC. THAT MAY BE LOCATED IN THE AREA OF WORK.
8. THE PLANS ARE INTENDED TO CONVEY THE EXTENT AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM INTENDED FOR REMOVAL MAY NOT BE SHOWN. THE CONTRACTOR IS ADVISED TO SURVEY THE PROJECT SITE BEFORE SUBMITTING A BID FOR DEMOLITION WORK.

PIPING SYMBOLS

- DIRECTION OF FLOW
- ANCHOR
- PIPE GUIDE
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- TOP CONNECTION, 45° OR 90°
- BOTTOM CONNECTION, 45° OR 90°
- SIDE CONNECTION
- CAPPED OUTLET
- PIPE DOWN TURN
- PIPE RISE
- UNION
- DIRECTION OF PIPE PITCH (DOWN)

PLUMBING LINE TYPES

- —/—/—/— or - - - - - - - - EXISTING TO BE REMOVED
- EXISTING TO REMAIN
- HOT WATER SUPPLY
- COLD WATER SUPPLY
- CONDENSATE DRAIN
- SAN — SANITARY LINE
- VENT PIPE
- V — WATER LINE

GENERAL SYMBOLS

- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- POINT OF DISCONNECT
- X / XX — INDICATES SECTION LETTER / INDICATES DRAWING NUMBER WHERE LOCATED

VALVE SYMBOLS

- GATE VALVE – THREADED/FLANGED
- GATE VALVE WITH 3/4" HOSE ADAPTER
- GLOBE VALVE – THREADED/FLANGED
- CHECK VALVE
- STRAINER
- WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
- STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
- FLEXIBLE CONNECTION
- ANGLE GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- CONTROL VALVE (CV) – FLOAT-OPERATED
- MODULATING CONTROL VALVE
- MODULATING CONTROL BUTTERFLY VALVE
- TWO POSITION CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- THREE-WAY TWO POSITION CONTROL VALVE
- PRESSURE REGULATING VALVE
- PRESSURE REDUCING VALVE (PRV)
- TEMPERATURE & PRESSURE RELIEF VALVE
- SAFETY OR PRESSURE RELIEF VALVE
- AUTOMATIC BALANCING CONTROL VALVE
- WATER BALANCE DEVICE
- WATER FLOW MEASURING DEVICE
- CIRCUIT SETTER VALVE
- GATE VALVE WITH GLOBE-VALVED BYPASS
- TRIPLE DUTY VALVE
- LC — WATER LEVEL CONTROLLER
- M — FLOW METER
- COMBINATION BALANCING AND SHUT-OFF VALVE
- MANUAL AIR VENT
- TEST PLUG (PRESSURE/TEMPERATURE)

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BTUH	BRITISH THERMAL UNITS/HOUR
CLG	CEILING
CO	CLEAN OUT
CWD	DOMESTIC COLD WATER DISCHARGE
CWS	DOMESTIC COLD WATER SUPPLY
DIA	DIAMETER
D	DRAIN
DN	DOWN
E.C.	ELECTRICAL CONTRACTOR
ECC	ENGINEERING CONTROL CENTER
ETR	EXISTING TO REMAIN
EXIST	EXISTING
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FLR.	FLOOR
FPC	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H.C.	HVAC CONTRACTOR
HP	HORSE POWER
HTWR	HIGH TEMP. HOT WATER RETURN PIPE (140°F)
HTWS	HIGH TEMP. HOT WATER PIPE (140°F)
HW	DOMESTIC HOT WATER PIPE (120°F)
HWR	DOMESTIC HOT WATER RETURN PIPE (120°F)
LBS/HR	POUNDS PER HOUR
LF	LINEAR FEET
MAX.	MAXIMUM
MBH	ONE THOUSAND BTUH
MER	MECHANICAL EQUIPMENT ROOM
MIN.	MINIMUM
NOM.	NOMINAL
P	PUMP
P.C.	PLUMBING CONTRACTOR
PD	PRESSURE DROP (FEET OF WATER)
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE IN.
S.S.	STAINLESS STEEL
U.N.O.	UNLESS NOTED OTHERWISE
V	VENT PIPE
VIF	VERIFY IN FIELD
WF	WATER FILTER

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NYS
TABLE C403.11.3
MINIMUM PIPE INSULATION THICKNESS (IN INCHES)[a,c]

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)				
	CONDUCTIVITY (BTUxIN)/(HxFT²x°F)[b]	MEAN RATING TEMPERATURE °F	<1"	1 TO <1½"	1½" TO <4"	4" TO <8"	8"
> 350	0.32–0.34	250	4.5	5.0	5.0	5.0	5.0
251–350	0.29–0.32	200	3.0	4.0	4.5	4.5	4.5
201–250	0.27–0.30	150	2.5	2.5	2.5	3.0	3.0
141–200	0.25–0.29	125	1.5	1.5	2.0	2.0	2.0
105–140	0.21–0.28	100	1.0	1.0	1.5	1.5	1.5
40–60	0.21–0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20–0.26	50	0.5	1.0	1.0	1.0	1.5

FOR SI: 1" = 25.4mm, °C = [(°)–32]/1.8

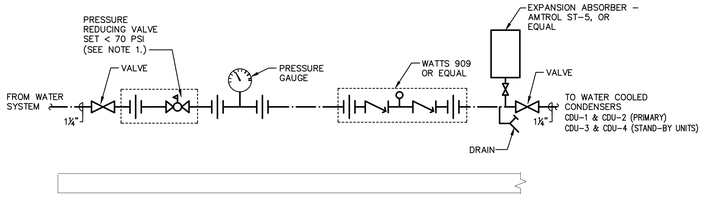
a. FOR PIPING SMALLER THAN 1½" AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF THESE THICKNESSES BY 1" SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B) BUT NOT TO A THICKNESS LESS THAN 1".

b. FOR INSULATION OUTSIDE THE STATED CONDUCTIVITY RANGE, THE MINIMUM THICKNESS (T) SHALL BE DETERMINED AS FOLLOWS:

$$T = r\left[\left(1 + \frac{t}{r}\right)^{\frac{K}{k}} - 1\right]$$

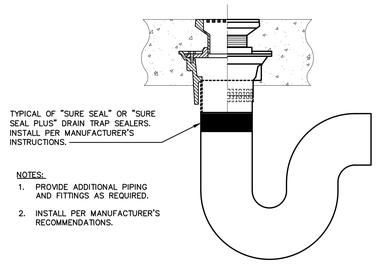
WHERE:
T = MINIMUM INSULATION THICKNESS
r = ACTUAL OUTSIDE RADIUS OF PIPE
t = INSULATION THICKNESS LISTED IN THE TABLE APPLICABLE FLUID TEMPERATURE AND PIPE SIZE
K = CONDUCTIVITY OF ALTERNATE MATERIAL AT MEAN RATING TEMPERATURE INDICATED FOR THE APPLICABLE FLUID TEMPERATURE [(BTUxIN)/HxFT²x°F)]
k = THE UPPER VALUE OF THE CONDUCTIVITY RANGE LISTED IN THE TABLE FOR THE APPLICABLE FLUID TEMPERATURE

c. FOR DIRECT-BURIED HEATING AND HOT WATER SYSTEM PIPING, REDUCTION OF THESE THICKNESSES BY 1½" (38mm) SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B BUT NOT TO THICKNESSES LESS THAN 1".



NOTES:
1. PLUMBING CONTRACTOR SHALL TEST ALL COMPONENTS AND RUN A MINIMUM OF 100 GALLONS THROUGH SYSTEM BEFORE FINAL INSPECTION.
2. REQUIRED ONLY WHERE SYSTEM PRESSURE EXCEEDS 70 PSI.

1 EMERGENCY WATER SERVICE SYSTEM
N.T.S.



NOTES:
1. PROVIDE ADDITIONAL PIPING AND FITTINGS AS REQUIRED.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

2 TRAP w/ SURE SEAL TRAP SEALER
N.T.S.

LEGEND AND SCHEDULE OF PLUMBING EQUIPMENT

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
LV-1 P-401	KOHLER	K-2007	"KINGSTON" WALL MOUNT LAVATORY. ADA APPROVED WITH K-13885 OFFSET DRAIN, VITREOUS CHINA WITH 4" CENTERS INCLUDE CONCEALED ARM CARRIER C/W "PALADAR" SINGLE LEVER FAUCET # K-14516 IN POLISHED CHROME WITH POP-UP DRAIN AND 1¼" TAILPIECE, K-14530 ESCUTHEON PLATE IN POLISHED CHROME, INCLUDE ⅜" ANGLE STOPS & SUPPLIES. ADA COMPLIANT INSTALLATION.
FD-1	ZURN	Z-415-B	GENERAL PURPOSE FLOOR DRAIN: DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH TYPE "B" POLISHED, NICKEL BRONZE STRAINER WITH FLASHING CLAMP DEVICE, 3" OUTLET WITH RECTORSEAL "SURESEAL" INLINE TRAP SEALER.
FD-2	ZURN	Z-415-E	GENERAL PURPOSE FLOOR DRAIN: DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH TYPE "E" POLISHED, NICKEL BRONZE STRAINER WITH FLASHING CLAMP DEVICE, 4" DIAMETER FUNNEL AND "SURESEAL" TRAP SEALER.

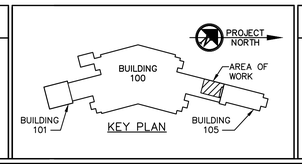
100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

DESIGN APPROVED W/ COMMENTS:

REV #	REVISION DESCRIPTION	DATE
–	–	–

CONSULTANTS:



PROF. SEAL:

DANIEL STEINBERG, P.E.
STATE OF NEW YORK – DANIEL S. STEINBERG – LICENSED PROFESSIONAL ENGINEER
NY PROFESSIONAL ENGINEER NO. 079573-1 ISSUED 1999, EXP. 4/23

ARCHITECT/ENGINEERS:

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www.fellp.com
FE PROJECT NO: 21-323
22 Mulberry St., Suite 2A, Middletown, NY 10940
t 845-343-1481; fx 855-320-8735
181 Church St., Suite 100, Poughkeepsie, NY 12601
t 845-454-9704; fx 855-320-8735

Drawing Title: **PLUMBING, SYMBOLS, DETAILS, ABBREVIATIONS & NOTES**

Approved Project Director: DEPT OF VETERANS AFFAIRS, JAMES J. PETERS VA MEDICAL CENTER, 130 WEST KINGSBRIDGE ROAD, BRONX, NY 10468

Project Title: Repair and Upgrade Morgue Refrigerators

Location: BRONX, N.Y.

Date: 3/8/24 | Checked: DSS / JDF | Drawn: SA

Project Number: 526-20-508

Building Number: 100

Drawing Number: 100-PL-001

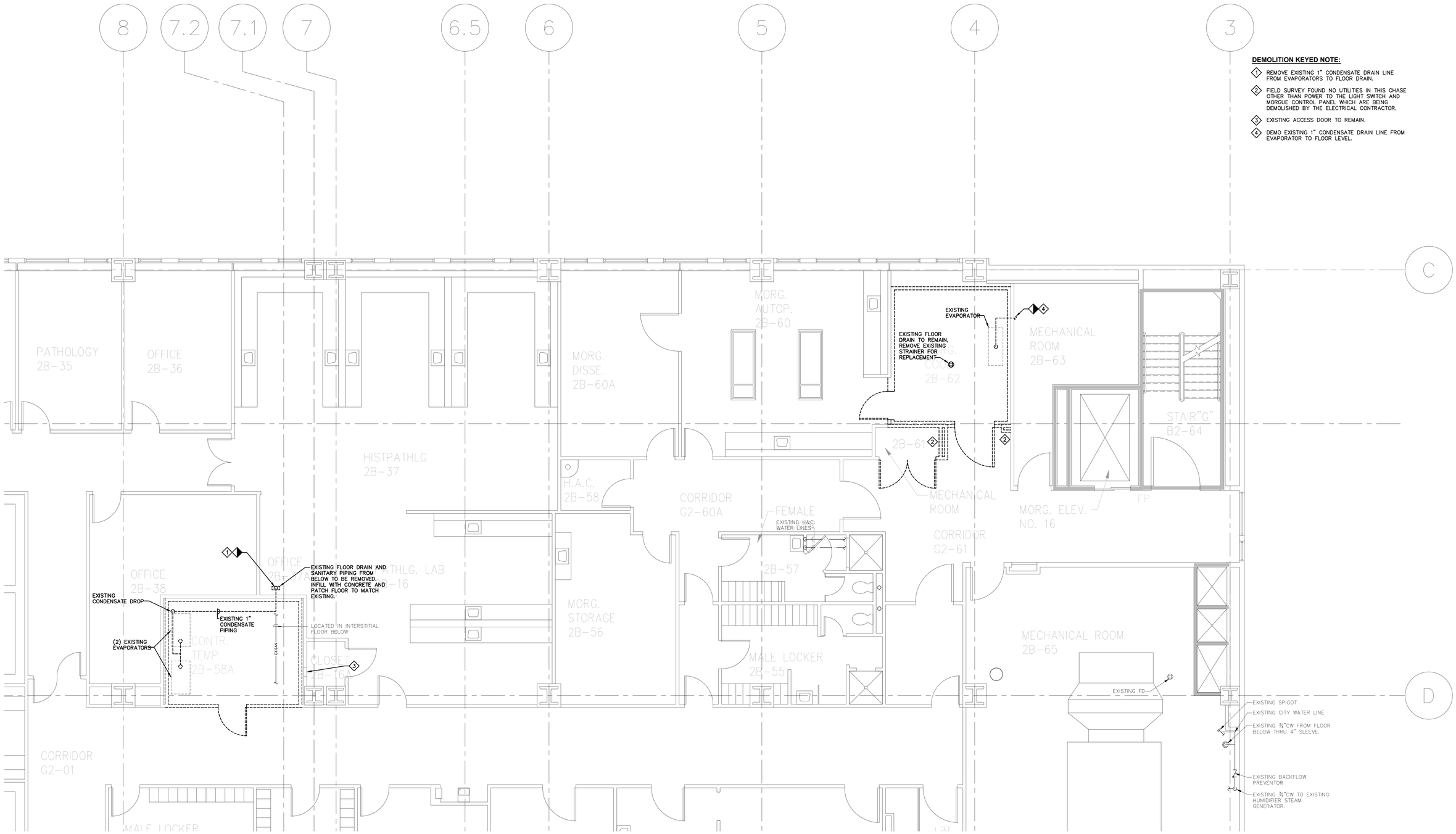
Dwg. 10 of 18

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

File Name: F:\2021\21-323 VA BRONX MORGUE, 2nd FLOOR\PLUMBING\100-PL-001.dwg (Layout: PL-001)
Date: Mar 08, 2024 - 3:04 PM (Name: sa)
one eighth inch = one foot 0 4 8 16
one quarter inch = one foot 0 4 8
three eighths inch = one foot 0 4
one half inch = one foot 0 2
one and one half inches = one foot 0 1
three inches = one foot 6"
three quarters inch = one foot 0 6" 2



DEMOLITION KEYED NOTE:

1. REMOVE EXISTING 1" CONDENSATE DRAIN LINE FROM EVAPORATORS TO FLOOR DRAIN.
2. FIELD SURVEY FOUND NO UTILITIES IN THIS CHASE OTHER THAN POWER TO THE LIGHT SWITCH AND MORGUE CONTROL PANEL WHICH ARE BEING DEMOLISHED BY THE ELECTRICAL CONTRACTOR.
3. EXISTING ACCESS DOOR TO REMAIN.
4. DEMO EXISTING 1" CONDENSATE DRAIN LINE FROM EVAPORATOR TO FLOOR LEVEL.

1 PLUMBING: 2ND FLOOR DEMOLITION PLAN

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

100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

DESIGN APPROVED W/ COMMENTS:		
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REV #	REVISION DESCRIPTION	DATE

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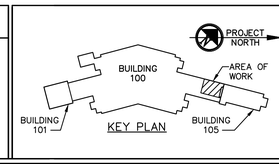

PROF. SEAL:

DANIEL STEINBERG, P.E.

NY PROFESSIONAL ENGINEER
NO. 076770
ISSUED 1999, EXP. 4/23

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Middletown, NY 10940
t 845-343-1481; fx 855-320-8735
181 Church St., Suite 100,
Poughkeepsie, NY 12601
t 845-454-9704; fx 855-320-8735

Drawing Title	PLUMBING: 2ND FLOOR DEMOLITION PLAN
Approved Project Director	DEPT OF VETERANS AFFAIRS JAMES J. PETERS VA MEDICAL CENTER 130 WEST KINGSBRIDGE ROAD BRONX, NY 10468
Project Title	Repair and Upgrade Morgue Refrigerators
Location	BRONX, N.Y.
Date	3/8/24
Checked	DSS/ JDF
Drawn	SA
Project Number	526-20-508
Building Number	100
Drawing Number	100-PLD-101
Dwg.	11 of 18

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

File Name: F:\2021\21-323 VA BRONX MORGUE, 2nd FLOOR\PLUMBING\100-PLD-101 & PL-101.dwg (Layout: PD-101)
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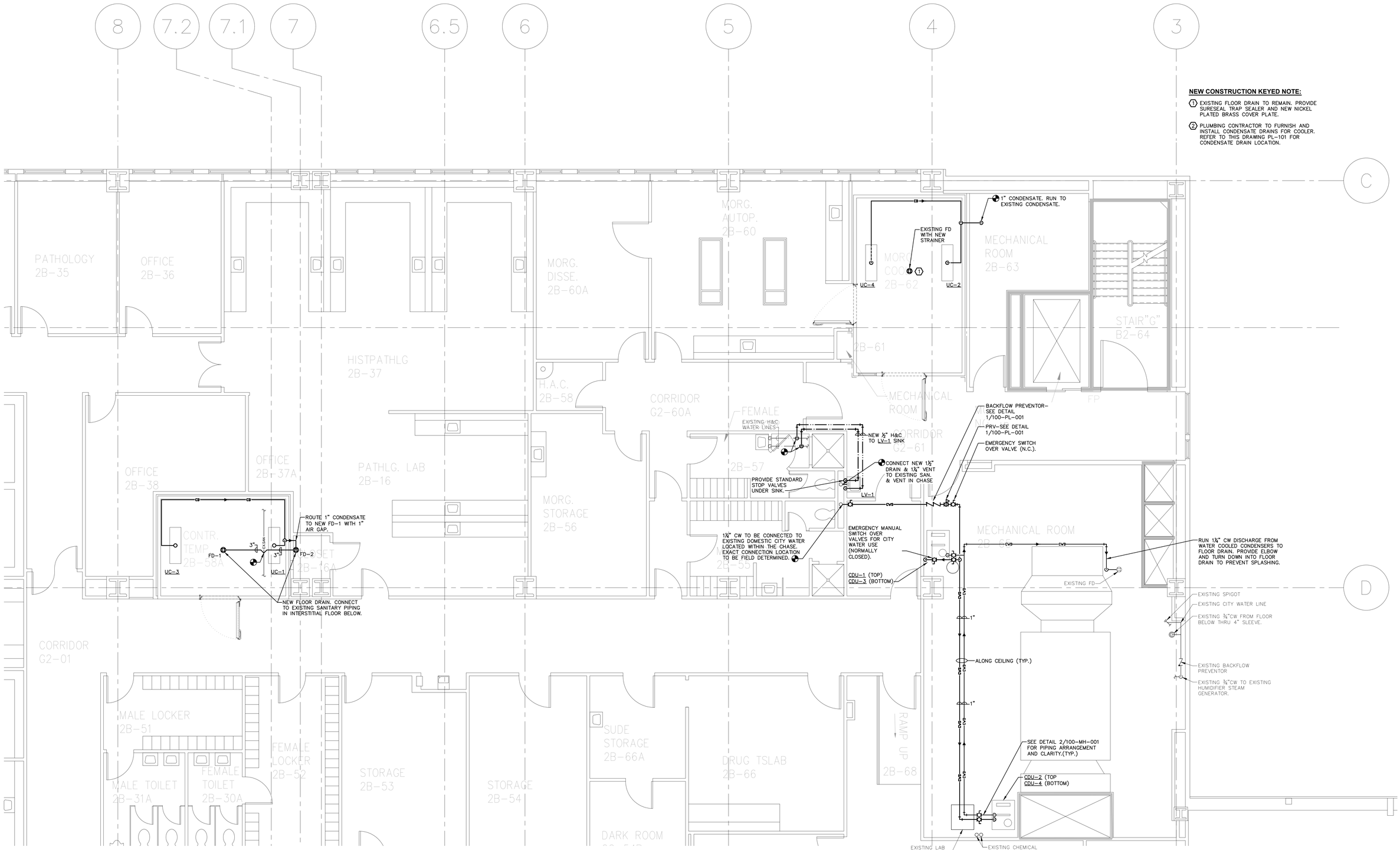

NEW CONSTRUCTION KEYED NOTE:

1. EXISTING FLOOR DRAIN TO REMAIN. PROVIDE SURESEAL TRAP SEALER AND NEW NICKEL PLATED BRASS COVER PLATE.
2. PLUMBING CONTRACTOR TO FURNISH AND INSTALL CONDENSATE DRAINS FOR COOLER. REFER TO THIS DRAWING PL-101 FOR CONDENSATE DRAIN LOCATION.

1 PLUMBING: 2ND FLOOR CONSTRUCTION PLAN

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

100% CONSTRUCTION SUBMISSION

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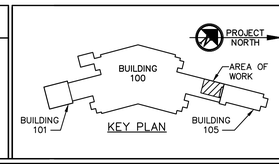

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DANIEL STEINBERG, P.E.
STATE OF NEW YORK
NY PROFESSIONAL ENGINEER NO. 076975-1 ISSUED 1999 EXP. 4/23

ARCHITECT/ENGINEERS:

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t 845-343-1481; fx 855-320-8735
181 Church St., Suite 100, Poughkeepsie, NY 12601
t 845-454-9704; fx 855-320-8735

Drawing Title: PLUMBING: 2ND FLOOR CONSTRUCTION PLAN

Approved Project Director: DEPT OF VETERANS AFFAIRS, JAMES J. PETERS VA MEDICAL CENTER, 130 WEST KINGSBRIDGE ROAD, BRONX, NY 10468

Project Title: Repair and Upgrade Morgue Refrigerators

Location: BRONX, N.Y.

Date	Checked	Drawn
3/8/24	DSS/ JDF	SA

Project Number: 526-20-508

Building Number: 100

Drawing Number: 100-PL-101

Dwg. 12 of 18

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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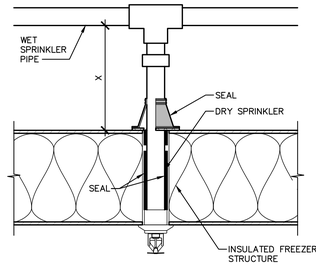
Date: Fri, Mar 08, 2024 - 3:04 PM (Name: as)

SPRINKLER DEMOLITION NOTES:

1. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT AREAS TO BE DEMOLISHED.
2. REMOVE ALL EQUIPMENT AND PIPING AS INDICATED ON PLAN. REMOVALS SHALL INCLUDE ALL FITTINGS, SUPPORTS AND HANGERS.
3. ANY DISCREPANCIES BETWEEN THE DEMOLITION PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER. ANY DEMOLITION WORK WHICH MAY BE QUESTIONABLE DUE TO UNFORESEEN FIELD CONDITIONS SHALL NOT BE REMOVED UNTIL REVIEWED BY THE ARCHITECT, ENGINEER OR BUILDING FACILITIES MANAGER.
4. DEMOLITION WORK SHALL INCLUDE THE PREPARATION OF EXISTING EQUIPMENT OR PIPING FOR CONNECTION TO NEW WORK. COORDINATE DEMOLITION WORK WITH THE CONSTRUCTION PLANS.
5. ALL EQUIPMENT REMOVALS SHALL BECOME THE PROPERTY OF THIS CONTRACTOR. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF DEMOLITION ITEMS OFF-SITE, UNLESS OTHERWISE NOTED.
6. ALL CUTTING AND PATCHING NECESSARY FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
7. IT SHALL BE THE OWNER'S RESPONSIBILITY TO REMOVE ANY LOOSE EQUIPMENT, FURNITURE, SUPPLIES, ETC. THAT MAY BE LOCATED IN THE AREA OF WORK.
8. THE PLANS ARE INTENDED TO CONVEY THE EXTENT AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM INTENDED FOR REMOVAL MAY NOT BE SHOWN. THE CONTRACTOR IS ADVISED TO SURVEY THE PROJECT SITE BEFORE SUBMITTING A BID FOR DEMOLITION WORK.

FIRE PROTECTION SYSTEM NOTES:

1. THE INTENT OF THESE DRAWINGS IS TO PROVIDE A COMPLETE & OPERATIVE SPRINKLER SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES AS REQUIRED. THIS CONTRACTOR SHALL MEET THE INTENT OF THE PLANS & SPECIFICATIONS AS WELL AS THE ACCOMPANYING DOCUMENTS. THIS CONTRACTOR SHALL PROVIDE ANY ADDITIONAL MATERIAL & LABOR NOT SPECIFICALLY LISTED OR DIRECTED WHICH MAY BE REQUIRED TO MEET THE INTENT OF THE PLANS & SPECIFICATIONS FOR A COMPLETE AND OPERABLE SYSTEM.
2. IT IS THIS CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE ALL CUTTING, PATCHING, BOXING, PRIME AND FINISH WORK REQUIRED TO COMPLETE THE INSTALLATION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
   A. THE INSTALLATION OF ALL PIPING OR SPRINKLER HEADS AND COORDINATION OF WORK WITH OTHER SUB-CONTRACTORS.
3. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SPRINKLER HEADS WITH THE COOLER BOX STRUCTURE, AS WELL AS WITH OTHER TRADES DURING CONSTRUCTION. SEE PLANS FOR ADDITIONAL REQUIREMENTS.
4. CONTRACTOR SHALL SEAL ALL PIPE PENETRATIONS THROUGH RATED WALLS AND CEILINGS WITH INTUMESCEANT TYPE FIRE SEALANT CAULK. PROVIDE ESCUTCHEONS AT ALL PENETRATIONS IN FINISHED AREAS.
5. IN GENERAL, SPRINKLERS SHALL BE ARRANGED FOR A MAXIMUM COVERAGE AS SHOWN ON PLANS WHILE AVOIDING LIGHTS, DIFFUSERS, ETC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS PIPING AND SPRINKLERS FOR PROPER COVERAGE IN EACH AREA. ADD SPRINKLERS AS REQUIRED FOR PROPER COVERAGE AS DICTATED BY ACTUAL FIELD CONDITIONS.
6. ALL FIRE PROTECTION SYSTEMS PROVIDED SHALL BE U.L. LISTED AND F.M. APPROVED AS APPLICABLE.
7. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS INDICATED ON DETAIL SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM.
8. CONTRACT CLOSE OUT: IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT; DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES.
9. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE ALTERATIONS AND/OR NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS TO PROVIDE COMPLETE NEW SYSTEMS IN EVERY RESPECT, CAPABLE OF OPERATING AS DESIGNED. IT IS NOT INTENDED THAT EVERY FITTING, MINOR DETAIL OR FEATURE BE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAIL NECESSARY FOR COMPLETION OF THESE SYSTEMS IN ACCORDANCE WITH GOOD PRACTICE.



NOTE:
X = MINIMUM EXPOSED BARREL LENGTH AS SPECIFIED BY SPRINKLER MANUFACTURER & NFPA 13.

1 DRY SPRINKLER INSTALLATION
N.T.S.

PIPING SYMBOLS

- ANCHOR
- PIPE GUIDE
- REDUCER OR INCREASER
- TOP CONNECTION, 45° OR 90°
- BOTTOM CONNECTION, 45° OR 90°
- SIDE CONNECTION
- CAPPED OUTLET
- RISE OR DROP IN PIPE

GENERAL SYMBOLS

- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- POINT OF DISCONNECT
- INDICATES SECTION LETTER
- INDICATES DRAWING NUMBER WHERE LOCATED

SPRINKLER LEGEND

- EXISTING SPRINKLER TO BE REMOVED
- N NEW DRY-TYPE SPRINKLER, QUICK RESPONSE. COORDINATE LENGTH WITH EXISTING CEILING HEIGHT.

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
AFF	ABOVE FINISHED FLOOR
DIA	DIAMETER
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ETR	EXISTING TO REMAIN
EXIST.	EXISTING
FD	FLOOR DRAIN
FLR.	FLOOR
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
HC	HVAC CONTRACTOR
MAX.	MAXIMUM
MER	MECHANICAL EQUIPMENT ROOM
MIN.	MINIMUM
N	NEW
NOM.	NOMINAL
PC	PLUMBING CONTRACTOR
RR	REMOVE & RELOCATE
U.N.O.	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD

FIRE PROTECTION LINE TYPES

- EXISTING SPRINKLER PIPE TO BE REMOVED
- EXISTING SPRINKLER PIPE TO REMAIN
- NEW SPRINKLER PIPE

UNIFORM CODE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

100% CONSTRUCTION SUBMISSION

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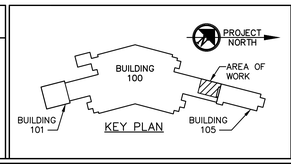

PROF. SEAL:

DANIEL STEINBERG, P.E.
STATE OF NEW YORK
NY PROFESSIONAL ENGINEER
NO. 076975-1
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t 845-343-1481; fx 855-320-8735
181 Church St., Suite 100, Poughkeepsie, NY 12601
t 845-454-9704; fx 855-320-8735

Drawing Title: **FIRE PROTECTION: SYMBOLS, ABBREVIATIONS & NOTES**

Approved Project Director:
DEPT OF VETERANS AFFAIRS
JAMES J. PETERS VA MEDICAL CENTER
130 WEST KINGSBRIDGE ROAD
BRONX, NY 10468

Project Title: Repair and Upgrade Morgue Refrigerators

Location: **BRONX, N.Y.**

Date: 3/8/24 | Checked: DSS / JDF | Drawn: WPB

Project Number: 526-20-508

Building Number: 100

Drawing Number: **100-FX-001**

Dwg. 13 of 18

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

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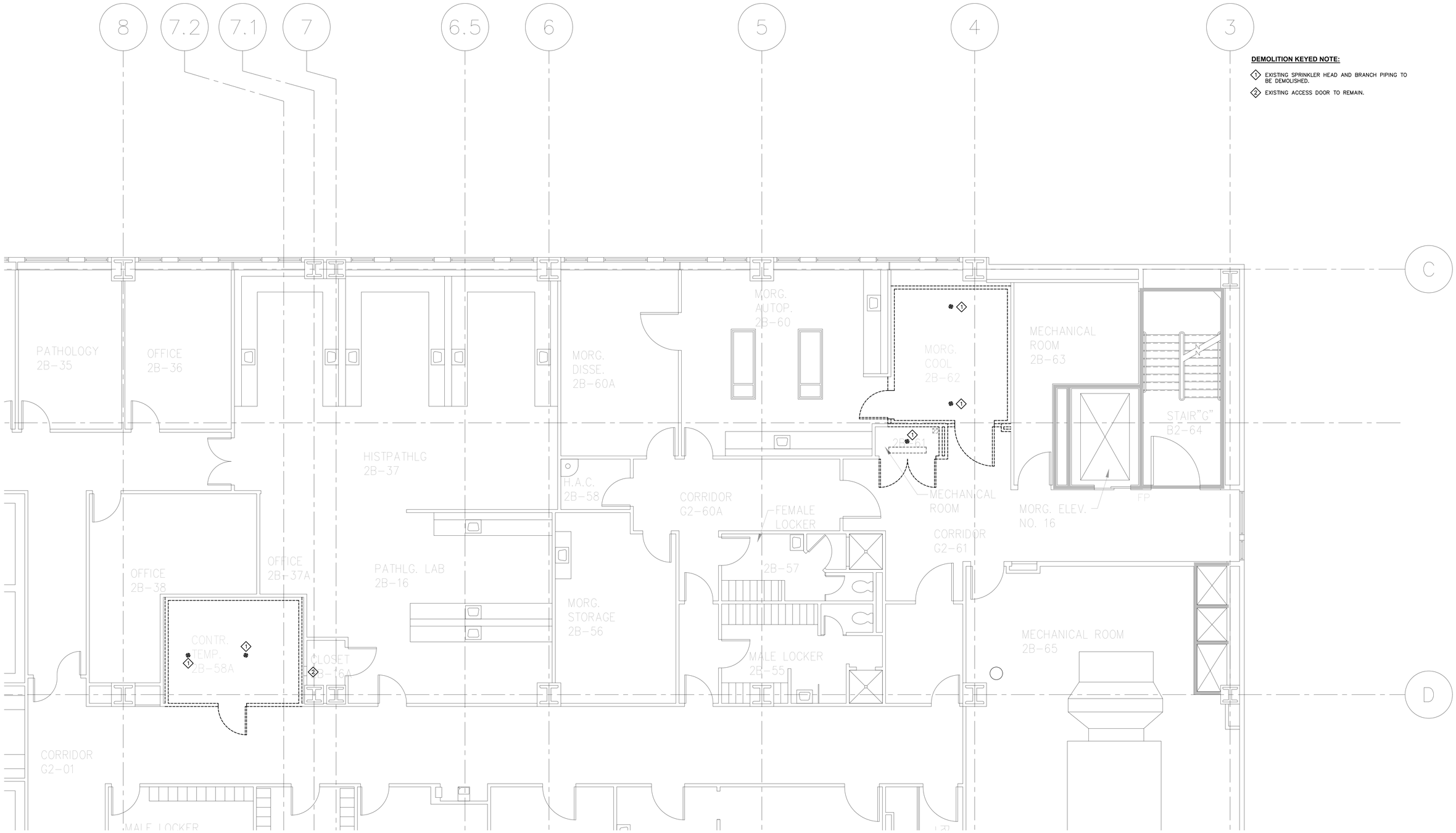

DEMOLITION KEYED NOTE:

1. EXISTING SPRINKLER HEAD AND BRANCH PIPING TO BE DEMOLISHED.
2. EXISTING ACCESS DOOR TO REMAIN.

1 FIRE PROTECTION: 2ND FLOOR DEMOLITION PLAN

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

100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

DESIGN APPROVED W/ COMMENTS:		
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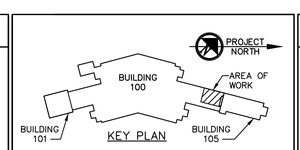
REV #	REVISION DESCRIPTION	DATE

CONSULTANTS:



PROF. SEAL:

DANIEL STEINBERG, P.E.

NY PROFESSIONAL ENGINEER
NO. 076770
ISSUED 1999, EXP. 4/23

ARCHITECT/ENGINEERS:

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FE PROJECT NO: 21-323

22 Mulberry St., Suite 2A, Middletown, NY 10940
t 845-343-1481; fx 855-320-8735

181 Church St., Suite 100, Poughkeepsie, NY 12601
t 845-454-9704; fx 855-320-8735

Drawing Title: FIRE PROTECTION: 2ND FLOOR DEMOLITION PLAN

Approved Project Director: DEPT OF VETERANS AFFAIRS
JAMES J. PETERS VA MEDICAL CENTER
130 WEST KINGSBRIDGE ROAD
BRONX, NY 10468

Project Title: Repair and Upgrade Morgue Refrigerators

Location: BRONX, N.Y.

Date	Checked	Drawn
3/8/24	DSS/ JDF	WPB

Project Number: 526-20-508

Building Number: 100

Drawing Number: 100-FXD-101

Dwg. 14 of 18

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

File Name: F:\2021\21-323 VA BRONX MORGUE, 2nd FLOOR\FIRE PROTECTION\100-FXD-101 & FX-101.dwg (Layout: FXD-101)
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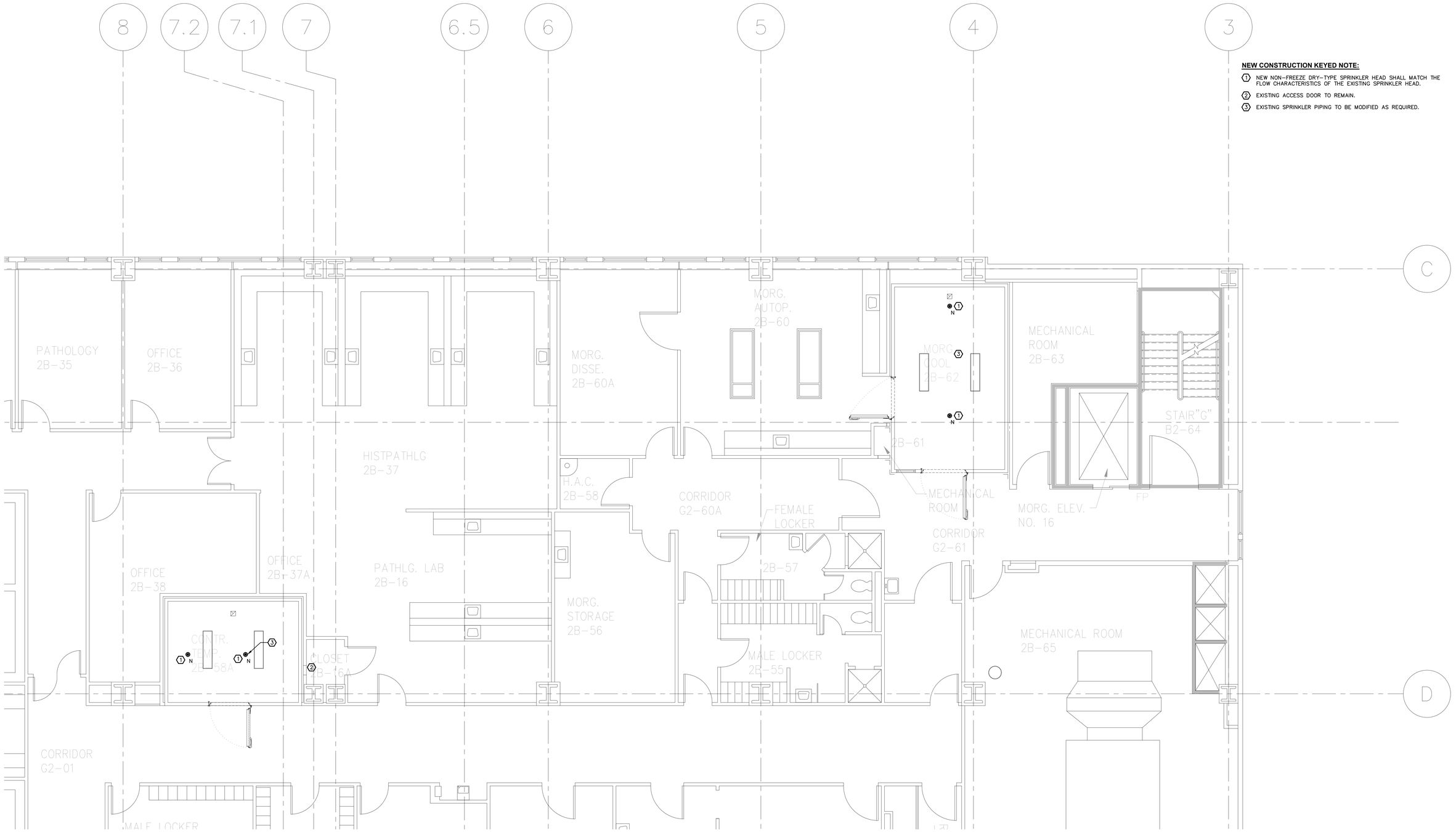

NEW CONSTRUCTION KEYED NOTE:

1. NEW NON-FREEZE DRY-TYPE SPRINKLER HEAD SHALL MATCH THE FLOW CHARACTERISTICS OF THE EXISTING SPRINKLER HEAD.
2. EXISTING ACCESS DOOR TO REMAIN.
3. EXISTING SPRINKLER PIPING TO BE MODIFIED AS REQUIRED.

1 FIRE PROTECTION: 2ND FLOOR CONSTRUCTION PLAN

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

100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

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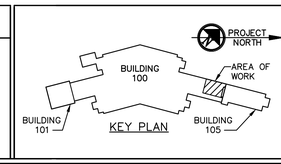

PROF. SEAL:

DANIEL STEINBERG, P.E.

STATE OF NEW YORK · DANIEL S. STEINBERG · 076975 · LICENSED PROFESSIONAL ENGINEER

NY PROFESSIONAL ENGINEER NO. 076975- ISSUED 1999, EXP. 4/23

ARCHITECT/ENGINEERS:

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www.fellp.com
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t 845-343-1481; fx 855-320-8735
181 Church St., Suite 100, Poughkeepsie, NY 12601
t 845-454-9704; fx 855-320-8735

Drawing Title	**FIRE PROTECTION: 2ND FLOOR CONSTRUCTION PLAN**
Approved Project Director	DEPT OF VETERANS AFFAIRS JAMES J. PETERS VA MEDICAL CENTER 130 WEST KINGSBRIDGE ROAD BRONX, NY 10468
Project Title	Repair and Upgrade Morgue Refrigerators
Location	BRONX, N.Y.
Date	3/8/24
Checked	DSS/ JDF
Drawn	WPB
Project Number	526-20-508
Building Number	100
Drawing Number	100-FX-101
Dwg. 15 of 18	

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

File Name: F:\2021\21-323 VA BRONX MORGUE, 2nd FLOOR\FIRE PROTECTION\100-FXD-101 & FX-101.dwg (Layout: FX-101)
Date / Time: Mar 08, 2024 - 2:05 PM (Name: ek)

GENERAL NOTES:

1. ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY, EXACT RUNS SHALL BE DETERMINED IN FIELD EXCEPT WHERE SPECIFICALLY DIMENSIONED ON CONDUIT LAYOUTS. CONTRACTOR SHALL FOLLOW MINIMUM SPACING REQUIREMENTS TO REDUCE ELECTROMAGNETIC INTERFERENCE. COORDINATE CONDUIT ROUTING WITH ALL OTHER TRADES.
2. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING WALLS AND BEAMS EXCEPT WHERE OTHERWISE SHOWN. CONTRACTOR SHALL INSTALL CONDUIT IN SUCH A MANNER TO AVOID ALL INTERFERENCES.
3. DEFLECTION/EXPANSION FITTINGS SHALL BE PROVIDED WHERE RIGID METAL CONDUIT CROSSES STRUCTURAL EXPANSION JOINTS.
4. EXPOSED CONDUIT SHALL BE SUPPORTED ON WALLS OR CEILINGS BY APPROVED HANGERS OF ANGLE OR CHANNEL CONSTRUCTION. CONDUITS SHALL BE SUPPORTED AT LEAST EVERY EIGHT (8) FEET.
5. NO CONDUIT SHALL BE SMALLER THAN ¾" UNLESS NOTED OTHERWISE ON PLANS.
6. EXACT CONDUIT STUB-UP LOCATIONS ARE TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR BASED ON CERTIFIED MANUFACTURER'S DRAWINGS OF THE RESPECTIVE EQUIPMENT. CONDUIT SHALL BE INSTALLED TO AGREE WITH EQUIPMENT FURNISHED.
7. ALL LIGHTING WIRING SHALL BE #12AWG. UNLESS OTHERWISE NOTED. THE NUMBER OF WIRES SHOWN ON THE DRAWINGS IS NOT NECESSARILY THE CORRECT NUMBER REQUIRED. THE CONTRACTOR SHALL INSTALL AS MANY AS ARE NECESSARY FOR PROVIDING A COMPLETE ELECTRICAL SYSTEM IN EACH CASE.
8. EQUIPMENT FURNISHED BY OTHERS SHALL BE INSTALLED & ENERGIZED BY THE ELECTRICAL CONTRACTOR.
9. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL APPROVALS AND CERTIFICATES AND PAY ALL FEES FOR ALL THE WORK INSTALLED. CERTIFICATES SHALL BE DELIVERED TO THE GENERAL CONTRACTOR BEFORE FINAL PAYMENT WILL BE MADE.
10. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE VERSION OF THE NEC AS WELL AS ALL STATE AND LOCAL CODES.
11. THE DRAWINGS INDICATE AND THE SPECIFICATIONS DESCRIBE THE GENERAL ARRANGEMENTS AND LOCATION OF OUTLET BOXES, ETC. THE CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE OWNER, MAKE ALL REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH EXISTING CONDITIONS, THE WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF THE WORK.
12. PRIOR TO SUBMISSION OF BID PROPOSAL, THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE CAREFULLY THE EXISTING CONDITIONS AND THE DIFFICULTIES THAT WILL BE INCURRED DURING THE PERFORMANCE OF HIS WORK.
    A. VERIFY & COORDINATE CONDUIT ROUTING.
    B. VERIFY & COORDINATE SCOPE OF DEMOLITION WORK.
    C. VERIFY & COORDINATE SCOPE OF WORK INVOLVING CONNECTIONS TO EXISTING BASE BUILDING SYSTEMS.
    D. VERIFY SCOPE OF WORK THAT HAS TO BE DONE WITH EXISTING FIRE ALARM SYSTEM AS REQUIRED TO ACCOMMODATE ALL ADDED DEVICES.
    E. VERIFY WITH GENERAL CONTRACTOR SCOPE OF WORK ASSOCIATED WITH RIGGING OF EQUIPMENT TO BE PREPURCHASED.
    F. COORDINATE WITH THE BUILDING ENGINEER AND GENERAL CONTRACTOR SHUT DOWNS OF EXISTING FACILITIES.
13. ARRANGE FOR SITE VISIT WITH THE BLDG. OWNER REPRESENTATIVE AND GENERAL CONTRACTOR.
14. CLAIMS FOR ADDITIONAL COMPENSATION ARISING DUE TO THE FAILURE OF THE CONTRACTOR TO FULLY UNDERSTAND THE SITE CONDITIONS SHALL NOT BE PAID FOR BY ANY OTHER PARTY.
15. CONNECTIONS TO EXISTING WORK:
    A. INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES.
    B. TEMPORARY SHUTDOWNS OF EXISTING SERVICES:
        a. AT NO ADDITIONAL CHARGES.
        b. AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING SERVICES.
        c. ONLY WITH WRITTEN CONSENT OF THE BUILDING OWNERS REPRESENTATIVE.
    C. ALARM AND EMERGENCY SYSTEMS: NOT TO BE INTERRUPTED.
    D. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK.
    E. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.
16. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. INSTALL SWITCH ON SIDE OPPOSITE HINGE; VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
17. JUNCTION & PULL BOXES: DO NOT LOCATE EXPOSED IN FINISH SPACES UNLESS REQUIRED BY NEC. WHERE NECESSARY, REROUTE CONDUIT OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY CONDUITS, INSTALL PULL BOXES EVERY 100 FEET AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
18. SUPPORT PANEL, JUNCTION & PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUIT.
19. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
20. FOR EACH LOCATION OF OTHER TRADES EQUIPMENT, SEE RESPECTIVE TRADE DRAWINGS.
21. FOR RECEPTACLE & OUTLETS MOUNTING HEIGHTS AND POSITION (HORIZONTAL, VERTICAL), COORDINATE WITH ARCHITECT, OWNER, REPRESENTATIVE & DATA/ COMMUNICATION CONSULTANT.
22. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS INDICATED ON DETAILS SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE WORKABLE SYSTEM.
23. ALL CONDUITS, TRANSFORMERS ETC. SHALL BE SUPPORTED FROM STRUCTURAL STEEL ONLY. COORDINATE WITH GENERAL CONTRACTOR.
24. PROVIDE BARRIERS IN ALL PULL BOXES FOR CONDUIT SETS.
25. FLEXIBLE CONNECTIONS IN EXPOSED AREAS SHALL NOT EXCEED 18" MAXIMUM.
26. ALL EQUIPMENT DEVICES, WIRING, ETC. SHOWN ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED.
27. ELECTRICAL CONTRACTOR SHALL PROVIDE SLEEVES/ OPENINGS FOR ALL CONDUIT RISERS PENETRATING WALLS, ROOF & FLOOR SLABS. ALL ROOF AND MECH. ROOMS SLAB PENETRATIONS SHALL BE WATERPROOF. METHOD OF PENETRATIONS & FIRE/WATER WATER PROOFING SHALL BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER, COORDINATE WITH GENERAL CONTRACTOR.
28. ELECTRICAL CONTRACTOR SHALL BECOME FAMILIAR AND COMPLY WITH OWNERS BUILDING STANDARDS FOR CONSTRUCTION.
29. ALL FINAL CONNECTIONS TO VIBRATING EQUIPMENT (MOTORS, GENERATORS ETC.) SHALL BE THROUGH A LIQUID TIGHT FLEXIBLE METAL CONDUIT.
30. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.
31. ALL WIRING IN PATIENT CARE AREAS SHALL BR PROVIDED WITH AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE INSTALLED IN A METALLIC RACEWAY SYSTEM LISTED AS AN EQUIPMENT GROUNDING CONDUCTOR.
32. THE TERMS "PROVIDE" OR "FURNISH", AS USED ON THESE PLANS, INDICATE THAT THE CONTRACTOR IS TO FURNISH AND INSTALL THE REFERRED EQUIPMENT OR SYSTEMS IN THEIR ENTIRETY AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
33. CONTRACT CLOSE OUT: IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT; DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES.
34. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE ALTERATIONS AND/OR NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS TO PROVIDE COMPLETE NEW SYSTEMS IN EVERY RESPECT, CAPABLE OF OPERATING AS DESIGNED. IT IS NOT INTENDED THAT EVERY FITTING, MINOR DETAIL OR FEATURE BE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAIL NECESSARY FOR COMPLETION OF THESE SYSTEMS IN ACCORDANCE WITH GOOD PRACTICE.

SWITCHBOARDS, PANEL BOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

ELECTRICAL DEMOLITION NOTES:

1. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT AREAS TO BE DEMOLISHED.
2. DISCONNECT AND REMOVE ALL DEVICES, FIXTURES, FIRE ALARM DEVICES, DATA/TEL. OUTLETS, POWER CONNECTIONS TO HVAC EQUIPMENT AND DISCONNECT SWITCHES, CONDUIT & WIRING FROM ALL WALLS/CEILINGS BEING REMOVED, WITHIN THIS AREA BACK TO POWER PANEL OF ORIGIN. ALL EXISTING CIRCUIT BREAKERS SHALL REMAIN IN PLACE AND LABELED AS "SPARE".
3. ALL EXISTING DEVICES SCHEDULED TO REMAIN SHALL BE EXTENDED/RE-CIRCUITED TO MAINTAIN CONTINUITY OF CIRCUIT/DEVICES.
4. REMOVALS SHALL INCLUDE, BUT NOT BE LIMITED TO DEVICES, FIXTURES, FIRE ALARM DEVICES, DATA/TEL. OUTLETS, POWER CONNECTIONS TO HVAC EQUIPMENT AND DISCONNECT SWITCHES, CONDUIT & WIRING.
5. ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY TEMPORARY WORK AND/OR MATERIALS TO RENDER EXISTING SYSTEM OPERATIONAL DURING ALL PHASES OF CONSTRUCTION IN ALL OCCUPIED SPACES. INCLUDING BUT NOT LIMITED TO, POWER, DATA, LIGHTING, EMERGENCY COMPONENTS & ALARMS. COORDINATE WITH ALL TRADES, OWNER AND OVERALL CONSTRUCTION PHASING SCHEDULE.
6. ALL CUTTING AND PATCHING NECESSARY FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
7. IT SHALL BE THE OWNER'S RESPONSIBILITY TO REMOVE ANY LOOSE EQUIPMENT, FURNITURE, SUPPLIES, ETC. THAT MAY BE LOCATED IN THE AREA OF WORK.
8. THE PLANS ARE INTENDED TO CONVEY THE EXTENT AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM INTENDED FOR REMOVAL MAY NOT BE SHOWN. THE CONTRACTOR IS ADVISED TO SURVEY THE PROJECT SITE BEFORE SUBMITTING A BID FOR DEMOLITION WORK.

POWER SYMBOLS

- SPECIAL PURPOSE CONNECTION.
- J — JUNCTION BOX, SIZE PER N.E.C.
- 3P, NON-FUSED DISCONNECT SWITCH, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SHALL HAVE THE SAME # OF POLES AS CONNECTING CIRCUIT UNLESS OTHERWISE NOTED. (N/F)
- 3P, FUSED DISCONNECT SWITCH, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SHALL HAVE THE SAME # OF POLES & AMPERE RATING AS CONNECTING CIRCUIT UNLESS OTHERWISE NOTED.
- MOTOR STARTER FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR
- MOTOR STARTER FURNISHED & INSTALLED WITH EQUIPMENT.
- COMBINATION NON-FUSED DISCONNECT SWITCH & MAGNETIC MOTOR STARTER WITH HAND/OFF/AUTO SWITCH. FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
- 480Y/277V, 3ø, 4W PANEL BOARD (SEE SCHEDULE)
- 208Y/120V, 3ø, 4W PANEL BOARD (SEE SCHEDULE)
- CONDUIT HOME RUN TO DESIGNATED PANEL. REFER TO PANEL SCHEDULE FOR CONDUIT & CABLE QUANTITY AND SIZE.
- DOUBLE HOME RUN
- TRIPLE HOME RUN
- GROUND
- MOTOR
- C — OUTDOOR DOME CAMERA
- 1P, 20A, TOGGLE SWITCH WITH INTEGRAL OCCUPANCY SENSOR, PROVIDE WITH MATCHING FACE PLATE, MOUNT 48" AFF. INSTALLED BY ELECTRICAL CONTRACTOR

ABBREVIATIONS

A	AMPERE	HZ	HERTZ
AF	AMPERE FRAME	IC	INTERRUPTING CAPACITY
AFF	ABOVE FINISHED FLOOR	IG, I	ISOLATED GROUND
AIC	AMPERE INTERRUPTING CAPACITY	IMC	INTERMEDIATE METAL CONDUIT
AUTO	AUTOMATIC	JB	JUNCTION BOX
AWG	AMERICAN WIRE GAUGE	LP	LIGHTING PANEL
BCW	BARE COPPER WIRE	LTG	LIGHTING
C	CONDUIT	M.C.	MECHANICAL CONTRACTOR
CAT	CATALOG	MCB	MAIN CIRCUIT BREAKER
CB	CIRCUIT BREAKER	MECH	MECHANICAL
CKT	CIRCUIT	MDP	MAIN DISTRIBUTION PANEL
CLG	CEILING	MTD	MOUNTED
CT	CURRENT TRANSFORMER	MTG	MOUNTING
CU	COPPER	MTS	MANUAL TRANSFER SWITCH
DP	DISTRIBUTION PANEL	N	NEUTRAL
DIV	DIVISION	NIC	NOT IN CONTRACT
DS	DISCONNECT (LOCKOUT) SWITCH	NEC	NATIONAL ELECTRIC CODE
DWG	DRAWING	NTS	NOT TO SCALE
EA	EACH	NM	NON-METALLIC CONDUIT
E.C.	ELECTRICAL CONTRACTOR	P	POLE
ELEC.	ELECTRICAL	PB	PULL BOX
ELEV	ELEVATOR	ø	PHASE
E.P.O.	EMERGENCY POWER OFF	PWR	POWER
EQUIP.	EQUIPMENT	REQ.	REQUIRED
EMT	ELECTRICAL METALLIC TUBING	RGS	RIGID GALVANIZED STEEL
FL	FLOOR	RM	ROOM
FLEX	FLEXIBLE	SEC	SECTION
FT	FEET OR FOOT	SW	SWITCH
FLUOR.	FLUORESCENT	SWBD	SWITCH BOARD
F.W.E.	FURNISHED WITH EQUIPMENT	SYS	SYSTEM
G, GND	GROUND	TEL	TELEPHONE
GFI	GROUND FAULT INTERRUPTER	TYP	TYPICAL
G.C.	GENERAL CONTRACTOR	U.N.O.	UNLESS NOTED OTHERWISE
HP	HORSEPOWER	VIF	VERIFY IN FIELD
HS	HAND SWITCH	VSD	VARIABLE SPEED DRIVE
HVAC	HEATING, VENTILATING & AIR CONDITIONING	WP	WEATHER PROOF
		W	WATT

ELECTRICAL LINE TYPES

- –/–/–/– or ------ EXISTING TO BE REMOVED
- EXISTING TO REMAIN
- NEW DEVICE
- NEW WIRING
- NEW FIXTURE

GENERAL SYMBOLS

- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- POINT OF DISCONNECT
- X — INDICATES SECTION LETTER
- XX — INDICATES DRAWING NUMBER WHERE LOCATED

EXISTING POWER PANEL - P2GA SECTION 3

TYPE: SQUARE 'D' NQ
RATING: 225, 208Y/120, 3ø, 4W
MAINS: 225A
BRANCHES: –
POLES: 42

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
ROOM 2B-44 RECEPT	EXISTING CONDUCTORS	30	85 86	30	EXISTING CONDUCTORS	TROUGH CEILING
			87 88			
ROOM 2B-44 RECEPT		20	89 90			
ROOM 2B-33 RECEPT		20	91 92	30		TWIST LOCK RM 2B-49
			93 94	20		
T.B. CONT. PANEL 44		20	95 96	20		ROOM 2B-45
ULTRA LOW FREEZER RM 2B-45		20	97 98			
			99 100	20		WALK IN FREEZER LIGHTS
ROOM 2B-46		20	101 102	20		WALK IN FREEZER RECEPT
CONDENSER IN CUTTING ROOM		20	103 104	20		ROOM 2B-45
			105 106			
			107 108			
COOLER ALARM 46		20	109 110	30		ROOM 2G38A
			111 112			
FREEZER ROOM 2B-50		30	113 114	20		ROOM 2B-45
			115 116			
CONDENSERS	(2)#12, (1)#12GND, 3/4"C	20	117 118	20	(2)#12, (1)#12GND, 3/4"C	MORGUE LIGHTING
COMPRESSOR #1	(3)#10, (1)#10GND, 3/4"C	25	119 120	20	(2)#12, (1)#12GND, 3/4"C	MORGUE RECEPT
			121 122	20	(2)#12, (1)#12GND, 3/4"C	MORGUE CONTROL PANEL
COMPRESSOR #3		25	123 124	20	(2)#12, (1)#12GND, 3/4"C	BLUE MORGUE CONTROL PANEL
			125 126	20		SPARE

NOTES:
1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

POWER PANEL - (P2G-SECTION 1)

TYPE: SQUARE 'D'
RATING: 250, 208Y/120, 3ø, 4W
MAINS: 250A
ENCLOSURE: 1
POLES: 42

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
EXISTING LOADS	EXISTING CONDUCTORS	EXIST	1 2	EXIST	EXISTING CONDUCTORS	EXISTING LOADS
			3 4			
* COMPRESSOR #2	(3)#10, (1)#10GND, 3/4"C	25	5 6			
*			7 8			
* RECEPT	(2)#12, (1)#12GND, 3/4"C	20	9 10			
EXISTING LOADS	EXISTING CONDUCTORS	EXIST	11 12			
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
* COMPRESSOR #4	(3)#10, (1)#10GND, 3/4"C	25	23 24			
*			25 26			
* CONDENSER'S	(3)#12, (1)#12GND, 3/4"C	20	27 28			
EXISTING LOAD	EXISTING CONDUCTORS	EXIST	29 30			
* MORGUE LIGHTS	(3)#12, (1)#12GND, 3/4"C	20	31 32			
EXISTING LOADS	EXISTING CONDUCTORS	EXIST	33 34			
			35 36			
			37 38			
			39 40			
			41 42			

* SPARE CIRCUITS

NOTES:
1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

ENERGY CODE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

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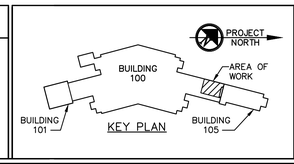
CONSULTANTS:



PROF. SEAL:

DANIEL STEINBERG, P.E.
STATE OF NEW YORK
NY PROFESSIONAL ENGINEER
NO. 076975-1
ISSUED 1999, EXP. 4/23

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t 845-454-9704; fx 855-320-8735

Drawing Title: **ELECTRICAL: SYMBOLS, ABBREVIATIONS & NOTES**

Approved Project Director:
DEPT OF VETERANS AFFAIRS
JAMES J. PETERS VA MEDICAL CENTER
130 WEST KINGSBRIDGE ROAD
BRONX, NY 10468

Project Title: Repair and Upgrade Morgue Refrigerators

Location: **BRONX, N.Y.**

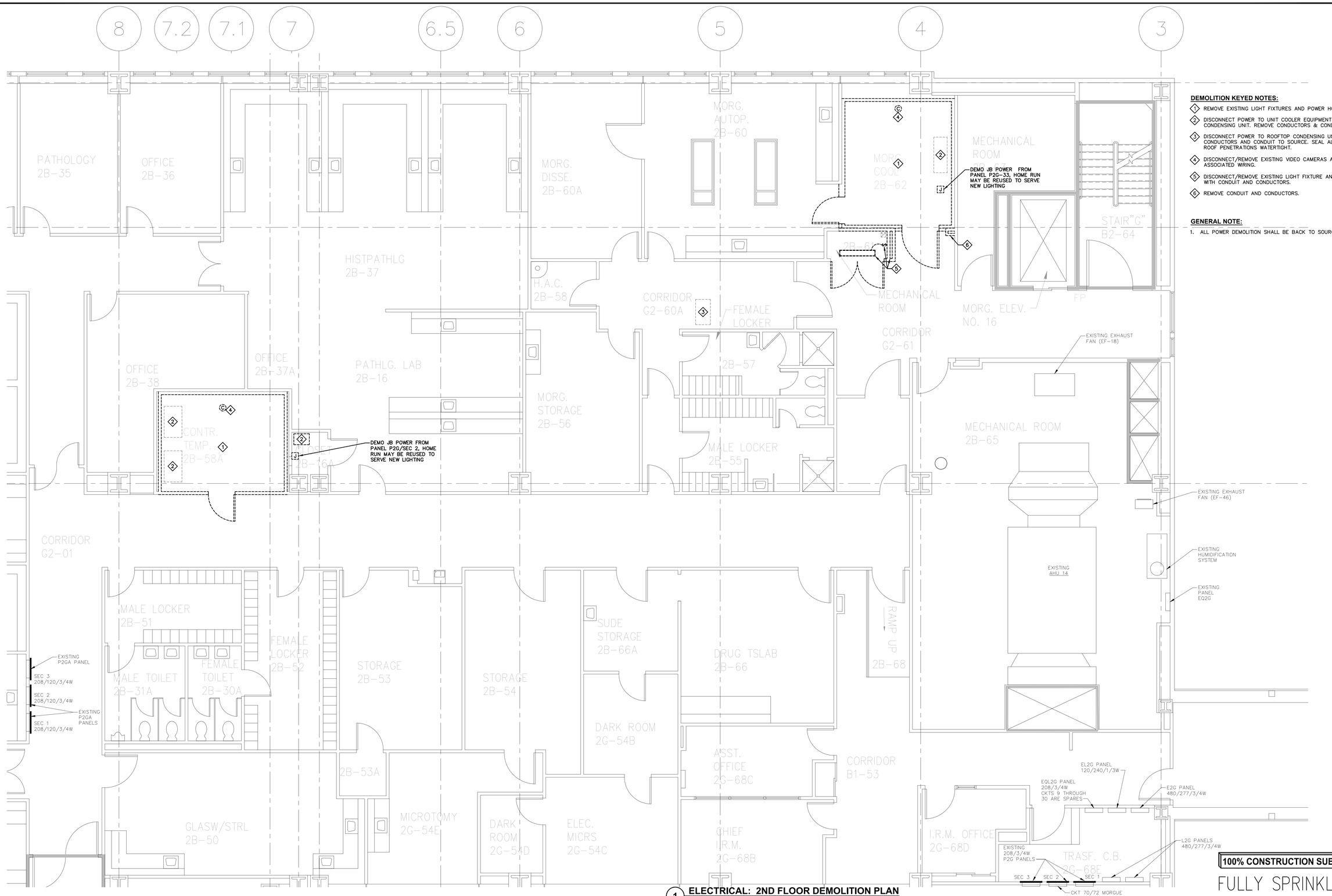
Date: 3/8/24 | Checked: DSS / JDF | Drawn: SA

Project Number: 526-20-508
Building Number: 100
Drawing Number: **100-ES-001**
Dwg. 16 of 18

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

File Name: F:\2021\21-323 VA BRONX MORGUE, 2nd FLOOR\ELECTRICAL\100-ES-001.dwg (Layout: ES-001)
Date: Fri, Mar 08, 2024 - 3:16 PM (Name: sa)



DEMOLITION KEYED NOTES:

1. REMOVE EXISTING LIGHT FIXTURES AND POWER HOME RUN.
2. DISCONNECT POWER TO UNIT COOLER EQUIPMENT AND CONDENSING UNIT. REMOVE CONDUCTORS & CONDUITS.
3. DISCONNECT POWER TO ROOFTOP CONDENSING UNIT. DEMO CONDUCTORS AND CONDUIT TO SOURCE. SEAL ALL ELECTRICAL ROOF PENETRATIONS WATERTIGHT.
4. DISCONNECT/REMOVE EXISTING VIDEO CAMERAS AND ALL ASSOCIATED WIRING.
5. DISCONNECT/REMOVE EXISTING LIGHT FIXTURE AND SWITCH ALONG WITH CONDUIT AND CONDUCTORS.
6. REMOVE CONDUIT AND CONDUCTORS.

GENERAL NOTE:

1. ALL POWER DEMOLITION SHALL BE BACK TO SOURCE PANEL.

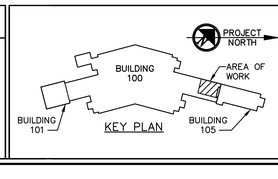
100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

1 ELECTRICAL: 2ND FLOOR DEMOLITION PLAN

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

DESIGN APPROVED W/ COMMENTS:	CONSULTANTS:	PROF. SEAL:	ARCHITECT/ENGINEERS:
REV # / REVISION DESCRIPTION / DATE		DANIEL STEINBERG, P.E.	UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.



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FELLENZER ENGINEERING LLP
www.fellp.com
FE PROJECT NO: 21-323
22 Mulberry St., Suite 2A, Middletown, NY 10940
t 845-343-1481; fx 855-320-8735
181 Church St., Suite 100, Poughkeepsie, NY 12601
t 845-454-9704; fx 855-320-8735

Drawing Title	ELECTRICAL: 2ND FLOOR DEMOLITION PLAN
Approved Project Director	DEPT OF VETERANS AFFAIRS JAMES J. PETERS VA MEDICAL CENTER 130 WEST KINGSBRIDGE ROAD BRONX, NY 10468
Project Title	Repair and Upgrade Morgue Refrigerators
Location	BRONX, N.Y.
Date	3/8/24
Checked	DSS/ JDF
Drawn	SA
Project Number	526-20-508
Building Number	100
Drawing Number	100-ESD-101
Dwg.	17 of 18

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

File Name: F:\20241CA-323 VA BRONX MORGUE, 2nd FLOOR\ELECTRICAL\100-ESD-101 &ES-101.dwg (Layout: ESD-101)
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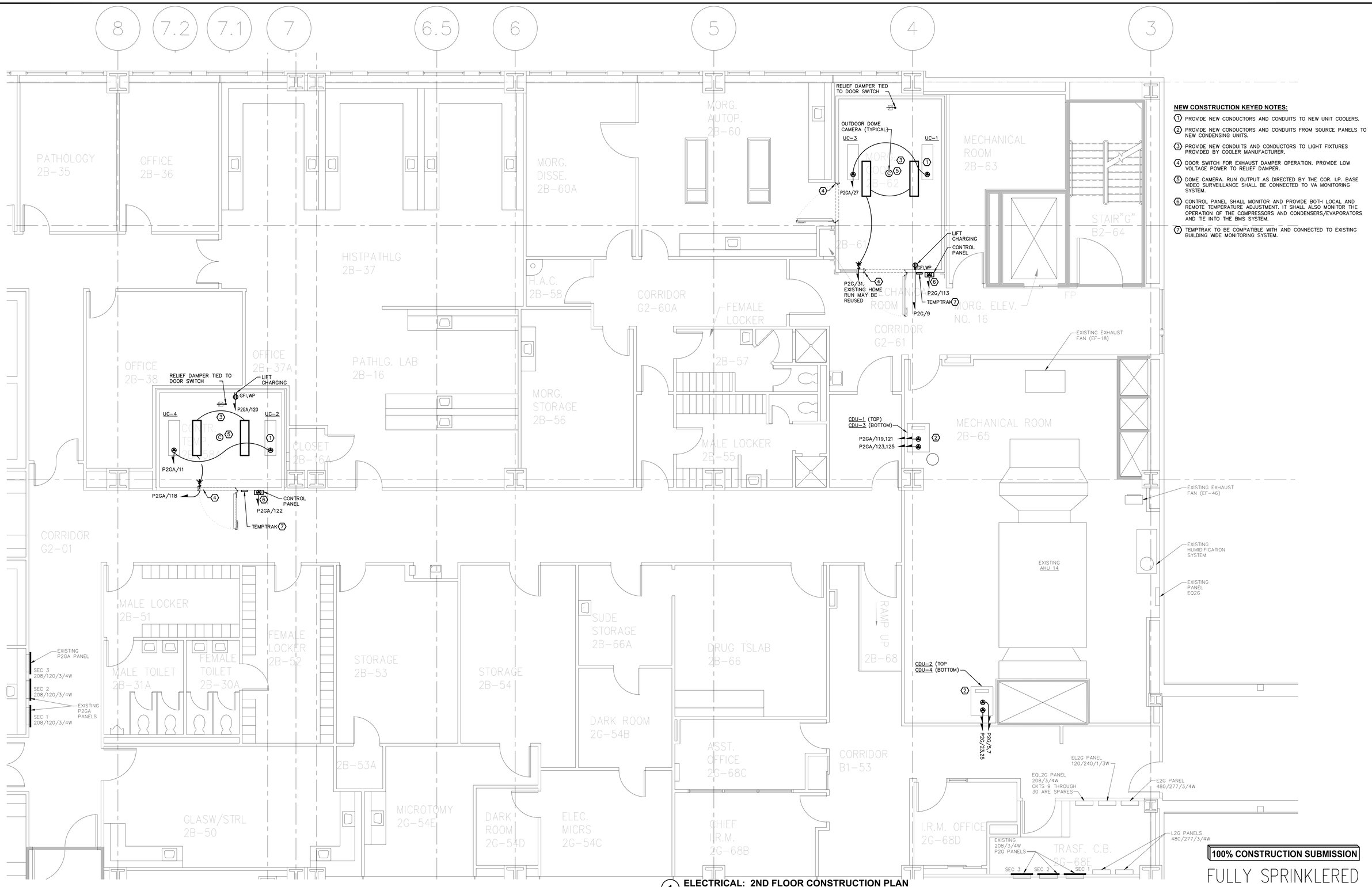

NEW CONSTRUCTION KEYED NOTES:

1. PROVIDE NEW CONDUCTORS AND CONDUITS TO NEW UNIT COOLERS.
2. PROVIDE NEW CONDUCTORS AND CONDUITS FROM SOURCE PANELS TO NEW CONDENSING UNITS.
3. PROVIDE NEW CONDUITS AND CONDUCTORS TO LIGHT FIXTURES PROVIDED BY COOLER MANUFACTURER.
4. DOOR SWITCH FOR EXHAUST DAMPER OPERATION. PROVIDE LOW VOLTAGE POWER TO RELIEF DAMPER.
5. DOME CAMERA. RUN OUTPUT AS DIRECTED BY THE COR. I.P. BASE VIDEO SURVEILLANCE SHALL BE CONNECTED TO VA MONITORING SYSTEM.
6. CONTROL PANEL SHALL MONITOR AND PROVIDE BOTH LOCAL AND REMOTE TEMPERATURE ADJUSTMENT. IT SHALL ALSO MONITOR THE OPERATION OF THE COMPRESSORS AND CONDENSERS/EVAPORATORS AND TIE INTO THE BMS SYSTEM.
7. TEMPTRAK TO BE COMPATIBLE WITH AND CONNECTED TO EXISTING BUILDING WIDE MONITORING SYSTEM.

100% CONSTRUCTION SUBMISSION

FULLY SPRINKLERED

1 ELECTRICAL: 2ND FLOOR CONSTRUCTION PLAN

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

DESIGN APPROVED W/ COMMENTS:

REV #	REVISION DESCRIPTION	DATE
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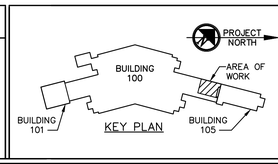
CONSULTANTS:

PROJECT NORTH



KEY PLAN

PROF. SEAL:

DANIEL STEINBERG, P.E.

STATE OF NEW YORK · DANIEL S. STEINBERG · 072675 · LICENSED PROFESSIONAL ENGINEER

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Drawing Title: ELECTRICAL: 2ND FLOOR CONSTRUCTION PLAN

Approved Project Director: DEPT OF VETERANS AFFAIRS, JAMES J. PETERS VA MEDICAL CENTER, 130 WEST KINGSBRIDGE ROAD, BRONX, NY 10468

Project Title: Repair and Upgrade Morgue Refrigerators

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Project Number: 526-20-508

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Dwg. 18 of 18

Office of Construction and Facilities Management

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