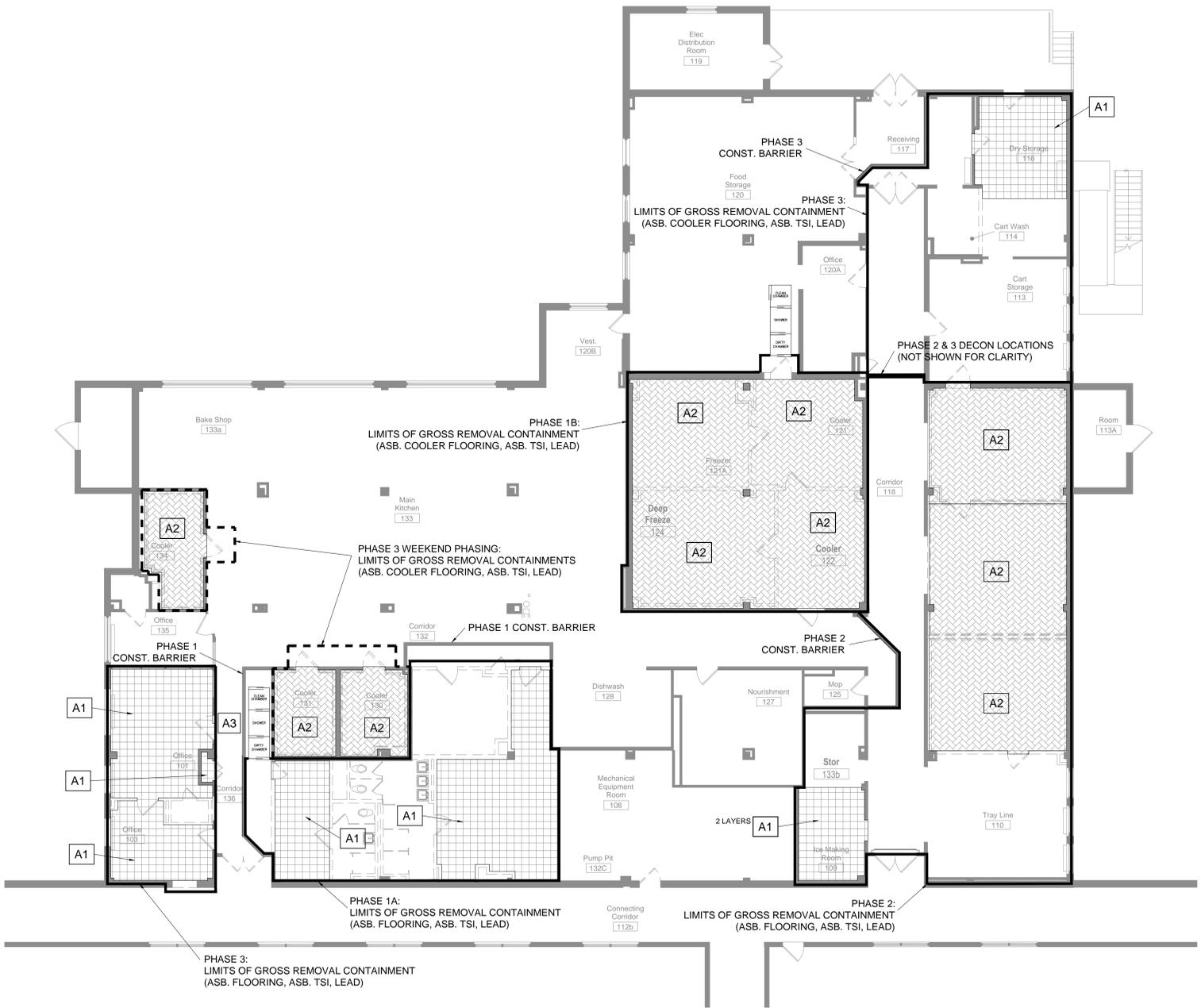


A
B
C
D
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1 Overall 1st Floor Plan - Asbestos Flooring Abatement
1/8" = 1'-0"

ABATEMENT LEGEND:

REMOVE ASBESTOS FLOOR TILE AND ASSOCIATED MASTIC INDICATED IN THE KEYNOTES

COOLER FLOORS TO BE TESTED AND REMOVED AS INDICATED IN THE KEYNOTES

ABATEMENT KEYNOTES

- A1** REMOVE ASBESTOS FLOOR TILE AND ASBESTOS MASTIC INSIDE A GROSS REMOVAL CONTAINMENT.
 - PHASE 1: 640 SF OF ASBESTOS FLOOR TILE AND ASBESTOS MASTIC (1 LAYER)
 - PHASE 2: 150 SF OF ASBESTOS FLOOR TILE AND ASBESTOS MASTIC (2 LAYERS)
 - PHASE 3: 705 SF OF ASBESTOS FLOOR TILE AND ASBESTOS MASTIC (1 LAYER)
- A2** COLLECT AND FURNISH CORE SAMPLES OF EACH COOLER FLOORING SYSTEM INSIDE A NEGATIVE PRESSURE CONTAINMENT. COOLER FLOORING SAMPLE MATRIX TO INCLUDE QUARRY TILE, 3"- 4" CONCRETE, 4"-6" CORK OR POLYSTYRENE, AND 1/4" OF METALLIC WATERPROOFING. WHERE MATERIAL IS DETERMINED TO BE ASBESTOS AND / OR LEAD CONTAINING, REMOVE COOLER FLOORS INSIDE A NEGATIVE PRESSURE CONTAINMENT
 - PHASE 1: 2 COMPOSITE CORE SAMPLES (COOLER & FREEZER SECTIONS) 1,100 SF OF FLOORING, 4 LOCATIONS
 - PHASE 2: 3 COMPOSITE CORE SAMPLES 1,070 SF OF FLOORING, 3 LOCATIONS
 - PHASE 3: 2 COMPOSITE CORE SAMPLES 380 SF OF FLOORING, 3 LOCATIONS
- A3** DECONTAMINATION UNIT LOCATION FOR PHASE 3 WHEN THE CONSTRUCTION BARRIERS ARE FLIPPED TO CLOSE OFF THE OTHER SIDE OF THE HALLWAY.

ABATEMENT GENERAL NOTES

1. THE SCOPE OF THE ASBESTOS ABATEMENT WORK CONSISTS OF REMOVING NON-ASBESTOS PLASTER CEILINGS, WALLS AND CHASES, ASBESTOS PIPE INSULATION AND FITTINGS, REFRIGERANT PIPING SYSTEMS WITH ASBESTOS BLACK TAR, PIPE SADDLES / SUPPORTS WITH ASBESTOS BLACK TAR, ASBESTOS TRANSITE HEAT SHIELDS, ASBESTOS TANK INSULATION, ASBESTOS CAULK, AND POSSIBLE ASBESTOS COOLER FLOORING. THE SCOPE OF THE LEAD ABATEMENT WORK CONSISTS OF REMOVING LEAD-CONTAINING GLAZED BLOCK WALLS / CHASES, DOOR FRAMES FROM LEAD-CONTAINING GLAZED BLOCK WALLS, LEAD-BASED PAINTED DOORS AND LEAD-BASED PAINTED DOOR FRAMES. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND THE CONTRACT SPECIFICATIONS.
2. ALL ABATEMENT WORK SHALL BE CONDUCTED IN MULTIPLE PHASES DURING ADMINISTRATIVE HOURS (8:00 AM TO 4:30 PM) MONDAY - FRIDAY EXCLUDING FEDERAL HOLIDAYS; EXCEPT THE NIGHT / WEEKEND WORK WHICH SHALL BE ACCOMPLISHED AT NIGHT (5:00 PM TO 5:00 AM) OR ON A WEEKEND (5:00 PM FRIDAY TO 6:00 PM SUNDAY) DURING THE APPROPRIATE PHASE. FOR PROJECT PHASING INFORMATION, SEE DRAWING PH100.
3. WORK SCHEDULES AND LIMITS OF ABATEMENT SHALL BE COORDINATED WITH THE VA COR FOR APPROVALS. UNLESS OTHERWISE INDICATED ON THE KEYNOTES, THE ABATEMENT CONTRACTOR SHALL SUBMIT A DETAILED WORK PLAN AND ABATEMENT SCHEDULE WITH THE REQUIRED SUBMITTALS. ANY CHANGES TO THE PROCEDURES, CONTAINMENT LIMITS AND PHASING SHALL BE SUBMITTED TO THE VA COR AND VPIH FOR APPROVALS.
4. THE LOCATIONS AND QUANTITIES SHALL BE FIELD VERIFIED BY THE ABATEMENT CONTRACTOR. THE LIMITS OF REMOVAL AND EXTENT OF THE CONTAINMENTS SHALL BE VERIFIED WITH THE VA COR AND VPIH. FOR CLARITY, THE DRAWINGS ONLY SHOW REPRESENTATIVE LOCATIONS OF PIPING.
5. ALL LOADOUT PROCEDURES SHALL BE COORDINATED WITH THE VA COR AND VPIH. ABATED PIPE INSULATION AND FITTINGS, EXCLUDING PIPING THAT WILL BE DEMOLISHED, SHALL BE PROPERLY RE-INSULATED WITH EQUIVALENT INSULATING PROPERTIES IN ACCORDANCE WITH VA SPECIFICATION 23 07 11, HVAC AND BOILER PLANT INSULATION.
6. ALL POLYETHYLENE SHEETING USED FOR THE ABATEMENT PROJECT SHALL BE OF THE FIRE RETARDANT TYPE.
7. THE LOCATIONS OF ABATEMENT DECONTAMINATION UNITS AND WASTE DISPOSAL CONTAINERS SHALL BE FIELD VERIFIED WITH THE VA COR AND VPIH. ALL LOADOUT PROCEDURES SHALL BE COORDINATED WITH THE VA COR AND VPIH. SEE DEMOLITION DRAWINGS FOR TEMPORARY PARTITION AND INFECTION CONTROL DETAILS.
8. ALL PERIMETER AIR MONITORING AND CLEARANCE SAMPLING WILL BE CONDUCTED BY THE VPIH.
9. VA PERSONNEL SHALL BE RESPONSIBLE FOR REMOVING OR RELOCATING ALL KITCHEN EQUIPMENT, DATA EQUIPMENT, COMPUTERS, SUPPLIES, FURNITURE, DESKS, WALL HANGINGS, ETC., FROM THE ABATEMENT AREAS.
10. ALL MECHANICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO, HVAC SYSTEMS, STEAM PIPING, ETC., SHALL BE SHUT DOWN DURING ALL ABATEMENT ACTIVITIES. ABATEMENT OF ASBESTOS PIPE INSULATION AND FITTING INSULATION FROM THE STEAM PIPING MUST BE ACCOMPLISHED WHEN THE STEAM PIPES ARE LESS THAN 150 DEGREES FAHRENHEIT. HOT WATER TANK SHALL BE LESS THAN 130 DEGREES FAHRENHEIT DURING ABATEMENT. ALL REQUIRED STEAM SHUTDOWNS AND TEMPERATURE ADJUSTMENTS OF THE HOT WATER TANK SHALL BE PROPERLY COORDINATED WITH THE VA TO MINIMIZE IMPACT TO THE HOSPITAL OPERATIONS.
11. STRICT COORDINATION BETWEEN THE VA OCCUPANTS, VA COR, VPIH, GENERAL CONTRACTOR AND ABATEMENT CONTRACTOR SHALL BE REQUIRED.
12. ALL LEAD WASTE SHALL BE TESTED BY THE ABATEMENT CONTRACTOR USING TOLP ANALYTICAL METHODS TO DETERMINE PROPER WASTE DISPOSAL METHODS.
13. TRACE AMOUNTS OF LEAD BELOW THE EPA HUD DEFINITION OF LEAD-BASED PAINT WERE IDENTIFIED IN THE PROJECT AREAS. IT SHOULD BE NOTED THAT OSHA DOES NOT RECOGNIZE THIS AS A THRESHOLD VALUE FOR LEAD EXPOSURE. ALTHOUGH THE POTENTIAL LEAD HAZARD FOR NORMAL DEMOLITION OR CONSTRUCTION ACTIVITIES IS LOW, ACTUAL LEAD EXPOSURE MAY VARY SIGNIFICANTLY DEPENDING UPON THE SPECIFIC TASK, PROCEDURE AND OTHER WORK AREA CONDITIONS. PROPER OSHA COMPLIANCE IS CONSIDERED PERFORMANCE BASED AND INCLUDES EVALUATING POTENTIAL WORK EXPOSURES WITH AIR MONITORING OR BIOLOGICAL EXPOSURE MONITORING (BLOOD LEAD TESTING), IF REQUIRED. UNLESS THE DEMOLITION CONTRACTOR HAS HISTORICAL DATA DOCUMENTING THIS POTENTIAL EXPOSURE, PERSONAL AIR SAMPLING SHALL BE CONDUCTED BY THE CPH ON REPRESENTATIVE TASKS TO DOCUMENT A NEGATIVE EXPOSURE FOR LEAD.
14. LEAD-CONTAINING GLAZED BLOCK WALLS PRESENT THROUGHOUT THE BUILDING, INCLUDING AREAS THAT WILL REQUIRE PLASTER WALL DEMOLITION. CARE SHALL BE TAKEN TO AVOID ANY DAMAGE OR DISTURBANCE TO THESE WALLS UNLESS SPECIFICALLY IMPACTED AS INDICATED IN THE KEYNOTES. ALL OTHER AREAS SHALL BE PROTECTED AS REQUIRED.
15. TEMPORARY LIGHTING OF SUFFICIENT LUMINOSITY SHALL BE PROVIDED FOR AND USED BY THE ABATEMENT CONTRACTOR DURING THE ABATEMENT PROCESS
16. PROVIDE SAWCUT EDGES AT TRANSITIONS BETWEEN NEW WORK AND EXISTING LEAD- CONTAINING GLAZED BLOCK. STRICT COORDINATION WITH GENERAL CONTRACTOR FOR LOCATIONS OF CUTS OF WALLS, CHASES, EXPANDED DOOR OPENINGS AND NEW WALL OPENINGS WILL BE REQUIRED.
17. GENERAL CONTRACTOR SHALL REMOVE ALL CEILINGS, INCLUDING BUT NOT LIMITED TO CEILING TILES, DRYWALL, PLASTER, COOLER CEILINGS, ETC.
18. UPON CONCLUSION OF ABATEMENT, IF THERE ARE ANY EXPOSED SECTIONS (ENDS) OF ASBESTOS PIPE INSULATION, THE ABATEMENT CONTRACTOR WILL USE LAG CLOTH AND SEALANT (VERMASCO OR SIMILAR) TO SEAL THE EXPOSED SECTIONS (ENDS).
19. FIBERGLASS PIPE INSULATION WILL BE PRESENT IN ABATEMENT CONTAINMENTS. PROPERLY WRAP AND PROTECT AS REQUIRED.

Revisions:	Date:

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Department of
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Medical Center
Jefferson
Barracks Division

VA U.S. Department
of Veterans Affairs

Drawing Title
**1st Floor Plan -
Asbestos Floor Abatement**

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
**Renovate Nutrition Center and Food
Services**

Location
1 Jefferson Barracks Dr., Building 60
St. Louis, MO 63125

Issue Date
03-29-2018

Checked
GKY

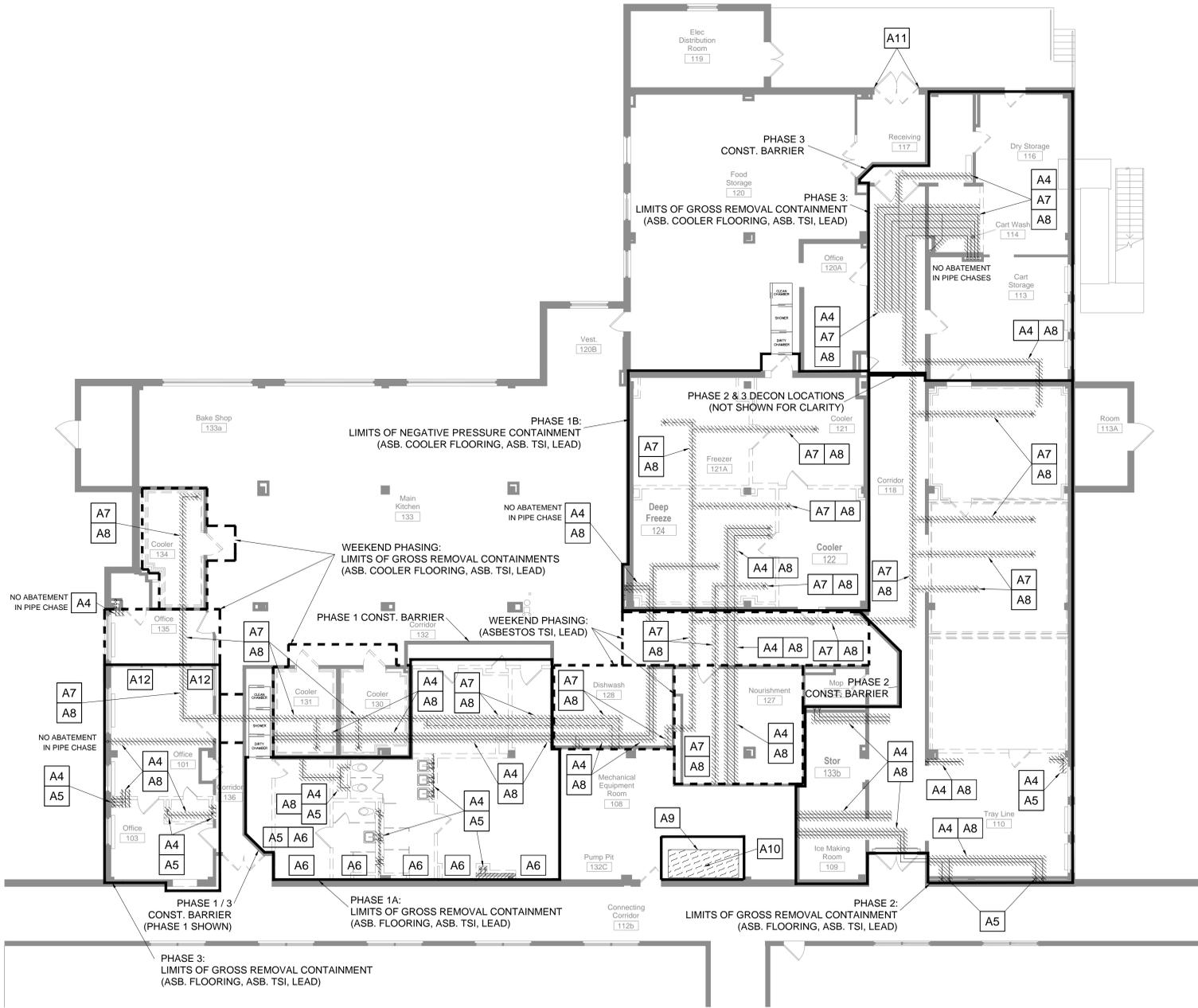
Drawn
RAJ

Project Number
657-17-112JB

Building Number
60

Drawing Number
HA100

A
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F



1 Overall 1st Floor Plan - Asbestos TSI Abatement
1/8" = 1'-0"

- ABATEMENT LEGEND:**
- REMOVE ASBESTOS PIPE INSULATION AS INDICATED IN THE KEYNOTES
 - REMOVE REFRIGERANT PIPING SYSTEM WITH INSULATION AND ASBESTOS BLACK TAR AS INDICATED IN THE KEYNOTES
 - REMOVE ASBESTOS COATING AND INSULATION AS INDICATED IN THE KEYNOTES

ABATEMENT KEYNOTES

- A4** REMOVE ASBESTOS PIPE INSULATION AND ASBESTOS FITTINGS INSIDE A GROSS REMOVAL CONTAINMENT OR MINI-CONTAINMENT. REMOVE NON-ASBESTOS PLASTER WALLS / CHASES AS REQUIRED. CEILINGS TO BE REMOVED BY GENERAL CONTRACTOR.
 - PHASE 1: 370 SF OF NON-ASBESTOS PLASTER WALLS / CHASES
265 LF OF ASBESTOS PIPE INSULATION INCLUDING ALL FITTINGS
 - PHASE 2: 165 LF OF ASBESTOS PIPE INSULATION INCLUDING ALL FITTINGS
 - PHASE 3: 180 SF OF NON-ASBESTOS PLASTER WALLS / CHASES
365 LF OF ASBESTOS PIPE INSULATION INCLUDING ALL FITTINGS
 - NIGHTS / WEEKENDS: 115 LF OF ASBESTOS PIPE INSULATION INCLUDING ALL FITTINGS
- A5** CLEANUP ANY REMAINING DEBRIS INSIDE THE PIPE CHASE INSIDE A GROSS REMOVAL CONTAINMENT. ALL PLASTER DEMOLITION WASTE SHALL BE CONSIDERED AS AN ASBESTOS CONTAMINATED MATERIAL AND DISPOSED OF ACCORDINGLY. ALL LEAD CONTAINING GLAZED BLOCK WALL PIPE CHASE MATERIALS SHALL BE SEPARATED AND THOROUGHLY CLEANED PRIOR TO DISPOSAL.
 - PHASE 1: 5 PIPE CHASES
(NOTE: PIPE INSULATION AND PLASTER WALL QUANTITIES HAVE BEEN INCLUDED IN KEYNOTE A4)
 - PHASE 2: 3 PIPE CHASES
(NOTE: PIPE INSULATION QUANTITIES HAVE BEEN INCLUDED IN KEYNOTE A4 AND LEAD CONTAINING GLAZED BLOCK WALL QUANTITIES HAVE BEEN INCLUDED IN KEYNOTE L3)
 - PHASE 3: 3 PIPE CHASES
(NOTE: PIPE INSULATION AND PLASTER WALL QUANTITIES HAVE BEEN INCLUDED IN KEYNOTE A4)
- A6** REMOVE WALL MOUNTED STEAM HEATERS, ASBESTOS TRANSITE HEAT SHIELDS, AND ABATE ASBESTOS PIPE INSULATION INCLUDING ALL ASBESTOS FITTINGS BACK TO MAIN STEAM LINE IN STEAM TUNNEL INSIDE A GROSS REMOVAL CONTAINMENT.
 - PHASE 1: 75 SF OF ASBESTOS TRANSITE HEAT SHIELDS, 6 LOCATIONS
- A7** REMOVE REFRIGERANT PIPING SYSTEMS WITH ASBESTOS TAR INSIDE A GROSS REMOVAL CONTAINMENT OR MINI-CONTAINMENT (DISMANTLING OR "WRAP & CUT" TECHNIQUES). REMOVAL OF REFRIGERANT PIPING SYSTEM INCLUDES THE REMOVAL OF THE TRAILING UN-INSULATED LINE WHICH IS NOT INCLUDED IN THE LINEAL FOOTAGE OF ESTIMATED QUANTITIES PRESENTED.
 - PHASE 1: 165 LF OF REFRIGERANT PIPING SYSTEMS WITH ASBESTOS TAR
 - PHASE 2: 115 LF OF REFRIGERANT PIPING SYSTEMS WITH ASBESTOS TAR
 - PHASE 3: 145 LF OF REFRIGERANT PIPING SYSTEMS WITH ASBESTOS TAR
 - NIGHTS / WEEKENDS: 150 LF OF REFRIGERANT PIPING SYSTEMS WITH ASBESTOS TAR
- A8** REMOVE PIPE AND COOLER SUPPORTS, SADDLES AND ASSEMBLIES WITH ASBESTOS TAR INSIDE A GROSS REMOVAL CONTAINMENT OR MINI-CONTAINMENT. SYSTEMS SUPPORT WITH ASBESTOS TAR MAY CURRENTLY SUPPORT PIPING INSULATED WITH FIBERGLASS INSULATION, ASBESTOS, OR REFRIGERANT PIPING SYSTEM.
 - PHASE 1: 40 EACH ASBESTOS TAR ON PIPE SADDLES / SUPPORTS
 - PHASE 2: 60 EACH ASBESTOS TAR ON PIPE SADDLES / SUPPORTS
 - PHASE 3: 60 EACH ASBESTOS TAR ON PIPE SADDLES / SUPPORTS
 - NIGHTS / WEEKENDS: 25 EACH ASBESTOS TAR ON PIPE SADDLES / SUPPORTS
- A9** REMOVE ASBESTOS COATING AND UNDERLYING INSULATION FROM HOT WATER TANK INSIDE A GROSS REMOVAL CONTAINMENT.
 - UNSPECIFIED: 120 SF OF ASBESTOS COATING AND INSULATION
- A10** REMOVE ASBESTOS FITTING ON VALVE ABOVE HOT WATER TANK INSIDE A GROSS REMOVAL CONTAINMENT.
 - UNSPECIFIED: 1 VALVE FITTING
- A11** REMOVE ASBESTOS CAULK USING NON-MECHANICAL MEANS AND OUTDOOR REMOVAL PROCEDURES.
 - NIGHTS / WEEKENDS: 20 LF OF ASBESTOS CAULKING
- A12** INTERIOR ASBESTOS WINDOW CAULK PRESENT. PROTECT AS REQUIRED.

ABATEMENT GENERAL NOTES

1. THE SCOPE OF THE ASBESTOS ABATEMENT WORK CONSISTS OF REMOVING NON-ASBESTOS PLASTER CEILINGS, WALLS AND CHASES, ASBESTOS PIPE INSULATION AND FITTINGS, REFRIGERANT PIPING SYSTEMS WITH ASBESTOS BLACK TAR, PIPE SADDLES / SUPPORTS WITH ASBESTOS BLACK TAR, ASBESTOS TRANSITE HEAT SHIELDS, ASBESTOS TANK INSULATION, ASBESTOS CAULK, AND POSSIBLE ASBESTOS COOLER FLOORING. THE SCOPE OF THE LEAD ABATEMENT WORK CONSISTS OF REMOVING LEAD-CONTAINING GLAZED BLOCK WALLS / CHASES, DOOR FRAMES FROM LEAD-CONTAINING GLAZED BLOCK WALLS, LEAD-BASED PAINTED DOORS AND LEAD-BASED PAINTED DOOR FRAMES. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND THE CONTRACT SPECIFICATIONS.
2. ALL ABATEMENT WORK SHALL BE CONDUCTED IN MULTIPLE PHASES DURING ADMINISTRATIVE HOURS (8:00 AM TO 4:30 PM) MONDAY - FRIDAY EXCLUDING FEDERAL HOLIDAYS; EXCEPT THE NIGHT / WEEKEND WORK WHICH SHALL BE ACCOMPLISHED AT NIGHT (5:00 PM TO 5:00 AM) OR ON A WEEKEND (5:00 PM FRIDAY TO 6:00 PM SUNDAY) DURING THE APPROPRIATE PHASE. FOR PROJECT PHASING INFORMATION, SEE DRAWING PH100.
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8. ALL PERIMETER AIR MONITORING AND CLEARANCE SAMPLING WILL BE CONDUCTED BY THE VPIH.
9. VA PERSONNEL SHALL BE RESPONSIBLE FOR REMOVING OR RELOCATING ALL KITCHEN EQUIPMENT, DATA EQUIPMENT, COMPUTERS, SUPPLIES, FURNITURE, DESKS, WALL HANGINGS, ETC., FROM THE ABATEMENT AREAS.
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11. STRICT COORDINATION BETWEEN THE VA OCCUPANTS, VA COR, VPIH, GENERAL CONTRACTOR AND ABATEMENT CONTRACTOR SHALL BE REQUIRED.
12. ALL LEAD WASTE SHALL BE TESTED BY THE ABATEMENT CONTRACTOR USING TOLP ANALYTICAL METHODS TO DETERMINE PROPER WASTE DISPOSAL METHODS.
13. TRACE AMOUNTS OF LEAD BELOW THE EPA HUD DEFINITION OF LEAD-BASED PAINT WERE IDENTIFIED IN THE PROJECT AREAS. IT SHOULD BE NOTED THAT OSHA DOES NOT RECOGNIZE THIS AS A THRESHOLD VALUE FOR LEAD EXPOSURE. ALTHOUGH THE POTENTIAL LEAD HAZARD FOR NORMAL DEMOLITION OR CONSTRUCTION ACTIVITIES IS LOW, ACTUAL LEAD EXPOSURE MAY VARY SIGNIFICANTLY DEPENDING UPON THE SPECIFIC TASK, PROCEDURE AND OTHER WORK AREA CONDITIONS. PROPER OSHA COMPLIANCE IS CONSIDERED PERFORMANCE BASED AND INCLUDES EVALUATING POTENTIAL WORK EXPOSURES WITH AIR MONITORING OR BIOLOGICAL EXPOSURE MONITORING (BLOOD LEAD TESTING), IF REQUIRED. UNLESS THE DEMOLITION CONTRACTOR HAS HISTORICAL DATA DOCUMENTING THIS POTENTIAL EXPOSURE, PERSONAL AIR SAMPLING SHALL BE CONDUCTED BY THE CPH ON REPRESENTATIVE TASKS TO DOCUMENT A NEGATIVE EXPOSURE FOR LEAD.
14. LEAD-CONTAINING GLAZED BLOCK WALLS PRESENT THROUGHOUT THE BUILDING, INCLUDING AREAS THAT WILL REQUIRE PLASTER WALL DEMOLITION. CARE SHALL BE TAKEN TO AVOID ANY DAMAGE OR DISTURBANCE TO THESE WALLS UNLESS SPECIFICALLY IMPACTED AS INDICATED IN THE KEYNOTES. ALL OTHER AREAS SHALL BE PROTECTED AS REQUIRED.
15. TEMPORARY LIGHTING OF SUFFICIENT LUMINOSITY SHALL BE PROVIDED FOR AND USED BY THE ABATEMENT CONTRACTOR DURING THE ABATEMENT PROCESS.
16. PROVIDE SAWCUT EDGES AT TRANSITIONS BETWEEN NEW WORK AND EXISTING LEAD-CONTAINING GLAZED BLOCK. STRICT COORDINATION WITH GENERAL CONTRACTOR FOR LOCATIONS OF CUTS OF WALLS, CHASES, EXPANDED DOOR OPENINGS AND NEW WALL OPENINGS WILL BE REQUIRED.
17. GENERAL CONTRACTOR SHALL REMOVE ALL CEILINGS, INCLUDING BUT NOT LIMITED TO CEILING TILES, DRYWALL, PLASTER, COOLER CEILINGS, ETC.
18. UPON CONCLUSION OF ABATEMENT, IF THERE ARE ANY EXPOSED SECTIONS (ENDS) OF ASBESTOS PIPE INSULATION, THE ABATEMENT CONTRACTOR WILL USE LAG CLOTH AND SEALANT (VERMASCO OR SIMILAR) TO SEAL THE EXPOSED SECTIONS (ENDS).
19. FIBERGLASS PIPE INSULATION WILL BE PRESENT IN ABATEMENT CONTAINMENTS. PROPERLY WRAP AND PROTECT AS REQUIRED.

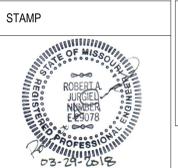
Revisions:	Date:

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Department of
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Medical Center
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Barracks Division

VA U.S. Department
of Veterans Affairs

Drawing Title
**1st Floor Plan -
Asbestos TSI Abatement**

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
**Renovate Nutrition Center and Food
Services**

Location
1 Jefferson Barracks Dr., Building 60
St. Louis, MO 63125

Issue Date
03-29-2018

Checked
GKY

Drawn
RAJ

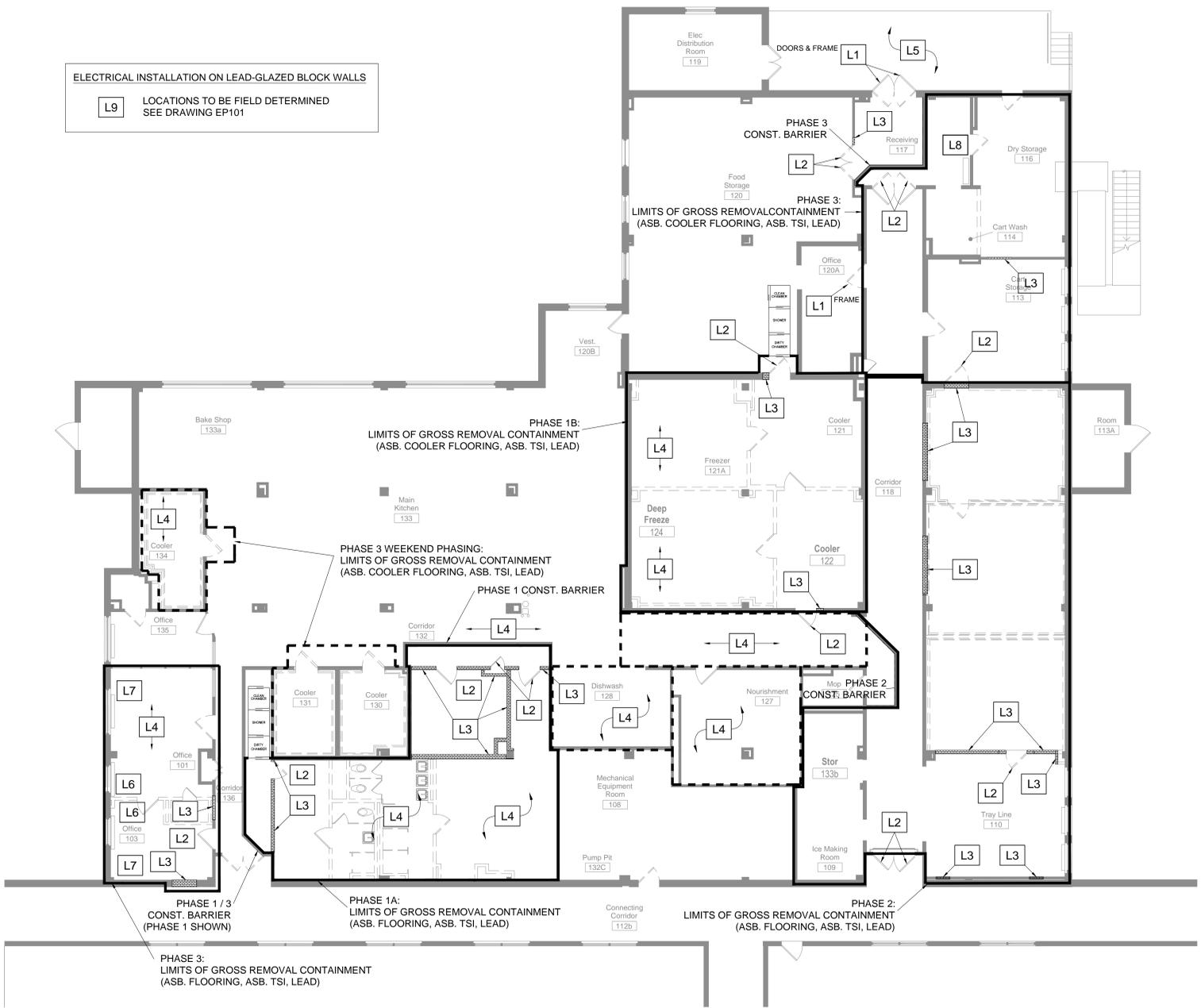
Project Number
657-17-112JB

Building Number
60

Drawing Number
HA101

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ELECTRICAL INSTALLATION ON LEAD-GLAZED BLOCK WALLS
L9 LOCATIONS TO BE FIELD DETERMINED
 SEE DRAWING EP101



1 Overall 1st Floor Plan - Lead Abatement
 1/8" = 1'-0"

ABATEMENT LEGEND:

 REMOVE LEAD-CONTAINING BLOCK WALLS AS INDICATED IN THE KEYNOTES

ABATEMENT KEYNOTES

- L1** REMOVE LEAD-BASED PAINTED DOORS AND DOOR FRAMES FROM LEAD-CONTAINING GLAZED BLOCK WALLS INSIDE A NEGATIVE PRESSURE CONTAINMENT OR MINI-CONTAINMENT.
 - PHASE 3: 1 EACH LEAD-BASED DOOR FRAMES REMOVAL FROM LEAD-CONTAINING GLAZED BLOCK WALLS, 1 LOCATION
 - NIGHTS & WEEKENDS: 2 EACH LEAD-BASED DOOR REMOVAL, 1 LOCATION
 1 EACH LEAD-BASED DOOR FRAMES REMOVAL FROM LEAD-CONTAINING GLAZED BLOCK WALLS, 1 LOCATION
- L2** REMOVE DOOR FRAMES FROM LEAD-CONTAINING GLAZED BLOCK WALLS INSIDE A NEGATIVE PRESSURE CONTAINMENT OR MINI-CONTAINMENT.
 - PHASE 1: 6 EACH DOOR FRAME REMOVAL FROM LEAD-CONTAINING GLAZED BLOCK WALLS
 - PHASE 2: 3 EACH DOOR FRAME REMOVAL FROM LEAD-CONTAINING GLAZED BLOCK WALLS
 - PHASE 3: 3 EACH DOOR FRAME REMOVAL FROM LEAD-CONTAINING GLAZED BLOCK WALLS
 - NIGHTS & WEEKENDS: 1 EACH DOOR FRAME REMOVAL FROM LEAD-CONTAINING GLAZED BLOCK WALLS
- L3** REMOVE LEAD-CONTAINING GLAZED BLOCK PIPE CHASES AND WALLS, INCLUDING REQUIRED SAW CUTS AT LIMITS OF REMOVAL, INSIDE A NEGATIVE PRESSURE CONTAINMENT.
 - PHASE 1: 715 SF OF LEAD-CONTAINING GLAZED BLOCK
 - PHASE 2: 520 SF OF LEAD-CONTAINING GLAZED BLOCK
 - PHASE 3: 220 SF OF LEAD-CONTAINING GLAZED BLOCK
 - NIGHTS & WEEKENDS: 30 SF OF LEAD-CONTAINING GLAZED BLOCK
- L4** DUCT STRAPS AND SUPPORTS CONTAINING ORANGE LEAD-BASED PAINT PRESENT IN THE WORK AREA. PROTECT AS REQUIRED.
- L5** LEAD-CONTAINING GLAZED BLOCK WALLS AND NUMEROUS LEAD-BASED PAINTED COMPONENTS ON THE EXTERIOR OF THE BUILDING ARE NOT REQUIRED TO BE ABATED, BUT NEED TO BE PROTECTED AS REQUIRED.
- L6** REMOVE LEAD-CONTAINING CERAMIC COVEBASE (BROWN COLOR) INSIDE NEGATIVE PRESSURE CONTAINMENT.
 - PHASE 3: 70 LF OF LEAD-CONTAINING CERAMIC COVEBASE
- L7** LEAD-CONTAINING GLAZED BLOCK CERAMIC COVEBASE PRESENT IN THE WORK AREA. PROTECT AS REQUIRED.
- L8** LEAD-BASED PAINTED DOOR FRAME PRESENT IN THE WORK AREA. PROTECT AS REQUIRED.
- L9** ABATEMENT CONTRACTOR TO PROVIDE UP TO 60 DRILL HOLES (5/8" DIAMETER OR LESS) IN LEAD-CONTAINING BLOCK OVER A TWO-DAY PERIOD, TO FACILITATE FIXTURE ATTACHMENTS BY OTHERS. LOCATIONS TO BE FIELD IDENTIFIED BY OTHERS. STRICT COORDINATION BETWEEN CONTRACTORS SHALL BE REQUIRED.

ABATEMENT GENERAL NOTES

1. THE SCOPE OF THE ASBESTOS ABATEMENT WORK CONSISTS OF REMOVING NON-ASBESTOS PLASTER CEILINGS, WALLS AND CHASES, ASBESTOS PIPE INSULATION AND FITTINGS, REFRIGERANT PIPING SYSTEMS WITH ASBESTOS BLACK TAR, PIPE SADDLES / SUPPORTS WITH ASBESTOS BLACK TAR, ASBESTOS TRANSITE HEAT SHIELDS, ASBESTOS TANK INSULATION, ASBESTOS CAULK, AND POSSIBLE ASBESTOS COOLER FLOORING. THE SCOPE OF THE LEAD ABATEMENT WORK CONSISTS OF REMOVING LEAD-CONTAINING GLAZED BLOCK WALLS / CHASES, DOOR FRAMES FROM LEAD-CONTAINING GLAZED BLOCK WALLS, LEAD-BASED PAINTED DOORS AND LEAD-BASED PAINTED DOOR FRAMES. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND THE CONTRACT SPECIFICATIONS.
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3. WORK SCHEDULES AND LIMITS OF ABATEMENT SHALL BE COORDINATED WITH THE VA COR AND VPIH FOR APPROVALS. UNLESS OTHERWISE INDICATED ON THE KEYNOTES, THE ABATEMENT CONTRACTOR SHALL SUBMIT A DETAILED WORK PLAN AND ABATEMENT SCHEDULE WITH THE REQUIRED SUBMITTALS. ANY CHANGES TO THE PROCEDURES, CONTAINMENT LIMITS AND PHASING SHALL BE SUBMITTED TO THE VA COR AND VPIH FOR APPROVALS.
4. THE LOCATIONS AND QUANTITIES SHALL BE FIELD VERIFIED BY THE ABATEMENT CONTRACTOR. THE LIMITS OF REMOVAL AND EXTENT OF THE CONTAINMENTS SHALL BE VERIFIED WITH THE VA COR AND VPIH. FOR CLARITY, THE DRAWINGS ONLY SHOW REPRESENTATIVE LOCATIONS OF PIPING.
5. ALL LOADOUT PROCEDURES SHALL BE COORDINATED WITH THE VA COR AND VPIH. ABATED PIPE INSULATION AND FITTINGS, EXCLUDING PIPING THAT WILL BE DEMOLISHED, SHALL BE PROPERLY RE-INSULATED WITH EQUIVALENT INSULATING PROPERTIES IN ACCORDANCE WITH VA SPECIFICATION 23 07 11, HVAC AND BOILER PLANT INSULATION.
6. ALL POLYETHYLENE SHEETING USED FOR THE ABATEMENT PROJECT SHALL BE OF THE FIRE RETARDANT TYPE.
7. THE LOCATIONS OF ABATEMENT DECONTAMINATION UNITS AND WASTE DISPOSAL CONTAINERS SHALL BE FIELD VERIFIED WITH THE VA COR AND VPIH. ALL LOADOUT PROCEDURES SHALL BE COORDINATED WITH THE VA COR AND VPIH. SEE DEMOLITION DRAWINGS FOR TEMPORARY PARTITION AND INFECTION CONTROL DETAILS.
8. ALL PERIMETER AIR MONITORING AND CLEARANCE SAMPLING WILL BE CONDUCTED BY THE VPIH.
9. VA PERSONNEL SHALL BE RESPONSIBLE FOR REMOVING OR RELOCATING ALL KITCHEN EQUIPMENT, DATA EQUIPMENT, COMPUTERS, SUPPLIES, FURNITURE, DESKS, WALL HANGINGS, ETC., FROM THE ABATEMENT AREAS.
10. ALL MECHANICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO, HVAC SYSTEMS, STEAM PIPING, ETC., SHALL BE SHUT DOWN DURING ALL ABATEMENT ACTIVITIES. ABATEMENT OF ASBESTOS PIPE INSULATION AND FITTING INSULATION FROM THE STEAM PIPING MUST BE ACCOMPLISHED WHEN THE STEAM PIPES ARE LESS THAN 150 DEGREES FAHRENHEIT. HOT WATER TANK SHALL BE LESS THAN 130 DEGREES FAHRENHEIT DURING ABATEMENT. ALL REQUIRED STEAM SHUTDOWNS AND TEMPERATURE ADJUSTMENTS OF THE HOT WATER TANK SHALL BE PROPERLY COORDINATED WITH THE VA TO MINIMIZE IMPACT TO THE HOSPITAL OPERATIONS.
11. STRICT COORDINATION BETWEEN THE VA OCCUPANTS, VA COR, VPIH, GENERAL CONTRACTOR AND ABATEMENT CONTRACTOR SHALL BE REQUIRED.
12. ALL LEAD WASTE SHALL BE TESTED BY THE ABATEMENT CONTRACTOR USING TOLP ANALYTICAL METHODS TO DETERMINE PROPER WASTE DISPOSAL METHODS.
13. TRACE AMOUNTS OF LEAD BELOW THE EPA HUD DEFINITION OF LEAD-BASED PAINT WERE IDENTIFIED IN THE PROJECT AREAS. IT SHOULD BE NOTED THAT OSHA DOES NOT RECOGNIZE THIS AS A THRESHOLD VALUE FOR LEAD EXPOSURE. ALTHOUGH THE POTENTIAL LEAD HAZARD FOR NORMAL DEMOLITION OR CONSTRUCTION ACTIVITIES IS LOW, ACTUAL LEAD EXPOSURE MAY VARY SIGNIFICANTLY DEPENDING UPON THE SPECIFIC TASK, PROCEDURE AND OTHER WORK AREA CONDITIONS. PROPER OSHA COMPLIANCE IS CONSIDERED PERFORMANCE BASED AND INCLUDES EVALUATING POTENTIAL WORK EXPOSURES WITH AIR MONITORING OR BIOLOGICAL EXPOSURE MONITORING (BLOOD LEAD TESTING), IF REQUIRED. UNLESS THE DEMOLITION CONTRACTOR HAS HISTORICAL DATA DOCUMENTING THIS POTENTIAL EXPOSURE, PERSONAL AIR SAMPLING SHALL BE CONDUCTED BY THE CPFH ON REPRESENTATIVE TASKS TO DOCUMENT A NEGATIVE EXPOSURE FOR LEAD.
14. LEAD-CONTAINING GLAZED BLOCK WALLS PRESENT THROUGHOUT THE BUILDING, INCLUDING AREAS THAT WILL REQUIRE PLASTER WALL DEMOLITION. CARE SHALL BE TAKEN TO AVOID ANY DAMAGE OR DISTURBANCE TO THESE WALLS UNLESS SPECIFICALLY IMPACTED AS INDICATED IN THE KEYNOTES. ALL OTHER AREAS SHALL BE PROTECTED AS REQUIRED.
15. TEMPORARY LIGHTING OF SUFFICIENT LUMINOSITY SHALL BE PROVIDED FOR AND USED BY THE ABATEMENT CONTRACTOR DURING THE ABATEMENT PROCESS
16. PROVIDE SAWCUT EDGES AT TRANSITIONS BETWEEN NEW WORK AND EXISTING LEAD-CONTAINING GLAZED BLOCK. STRICT COORDINATION WITH GENERAL CONTRACTOR FOR LOCATIONS OF CUTS OF WALLS, CHASES, EXPANDED DOOR OPENINGS AND NEW WALL OPENINGS WILL BE REQUIRED.
17. GENERAL CONTRACTOR SHALL REMOVE ALL CEILINGS, INCLUDING BUT NOT LIMITED TO CEILING TILES, DRYWALL, PLASTER, COOLER CEILINGS, ETC.
18. UPON CONCLUSION OF ABATEMENT, IF THERE ARE ANY EXPOSED SECTIONS (ENDS) OF ASBESTOS PIPE INSULATION, THE ABATEMENT CONTRACTOR WILL USE LAG CLOTH AND SEALANT (VERMASCO OR SIMILAR) TO SEAL THE EXPOSED SECTIONS (ENDS).
19. FIBERGLASS PIPE INSULATION WILL BE PRESENT IN ABATEMENT CONTAINMENTS. PROPERLY WRAP AND PROTECT AS REQUIRED.

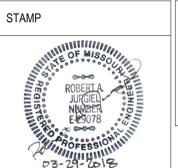
Revisions:	Date:

CONSULTANTS

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ARCHITECT/ENGINEER OF RECORD

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Department of
 Veteran's Affairs
 Medical Center
 Jefferson
 Barracks Division

VA U.S. Department of
 Veterans Affairs

Drawing Title
**1st Floor Plan -
 Lead Abatement**

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
**Renovate Nutrition Center and Food
 Services**

Location
 1 Jefferson Barracks Dr., Building 60
 St. Louis, MO 63125

Issue Date
 03-29-2018

Checked
 GKY

Drawn
 RAJ

Project Number
 657-17-112JB

Building Number
 60

Drawing Number
HA102

A
B
C
D
E
F



ABATEMENT KEYNOTES

- A13** ABATE ASBESTOS PIPE INSULATION AND ASBESTOS FITTINGS USING GLOVEBAG REMOVAL METHODS INSIDE A NEGATIVE PRESSURE CONTAINMENT, AND THOROUGHLY CLEAN ALL SURFACES INSIDE THE CRAWLSPACE. DUE TO THE NEED TO KEEP THE LINES ACTIVE DURING OPERATIONAL PERIODS, THE ABATEMENT WORK SHALL BE CONDUCTED OVER MULTIPLE WEEKENDS WITH SEPARATE STEAM SHUTDOWNS AND CLEARANCES FOR EACH WEEKEND. THE ABATED LINES SHALL BE TEMPORARILY INSULATED BEFORE THE STEAM LINES ARE REACTIVATED.

- 1.010 LF OF ASBESTOS PIPE INSULATION AND FITTINGS TOTAL
- A14** ASBESTOS AND FIBERGLASS INSULATION TO REMAIN. PROTECT AS REQUIRED.

ABATEMENT GENERAL NOTES

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1 Overall Tunnel Plan - Asbestos TSI Abatement
1/8" = 1'-0"

ABATEMENT LEGEND:
 REMOVE ASBESTOS PIPE INSULATION AS INDICATED IN THE KEYNOTES

Revisions:	Date:

CONSULTANTS

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STAMP



Drawing Title
Tunnel Plan - Asbestos TSI Abatement

Approved: _____

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
Renovate Nutrition Center and Food Services

Location
1 Jefferson Barracks Dr., Building 60
St. Louis, MO 63125

Issue Date
03-29-2018

Checked
GKY

Drawn
RAJ

Project Number
657-17-112JB

Building Number
60

Drawing Number
HA103