

PATIENT CARE TOWER - 8TH FLOOR BONE MARROW TRANSPLANT UNIT RENOVATION

MU PROJECT NO. - CP221933

AT UNIVERSITY OF MISSOURI COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI





P: 573.882.4097

University of Missouri

ARCHITECT: BSA LIFESTRUCTURES 6601 COLLEGE BLVD. SUITE 100 OVERLAND PARK, KS 66211 P: 913.402.1100 F: 913.998.6001

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OWNER: UNIVERSITY OF MISSOURI - COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI 305 JESSE HALL COLUMBIA, MO 65211

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COVER SHEET

BID SET

09 MAY, 2024

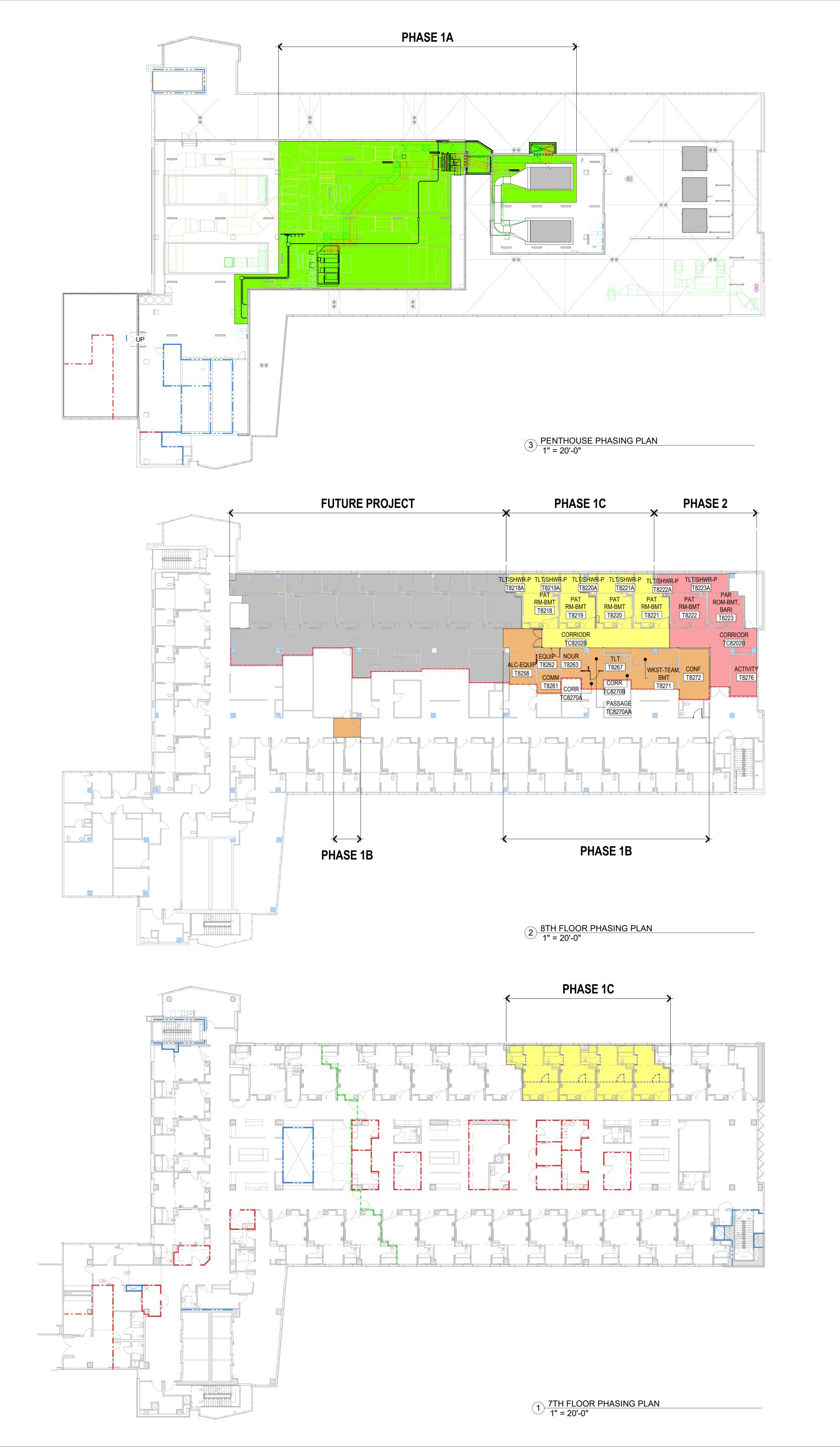
DATE 05/31/2024

ADDENDUM #1

12645 Olive Boulevard, Suite 100 Creve Coeur, MO 63141 ph 314.754.6306

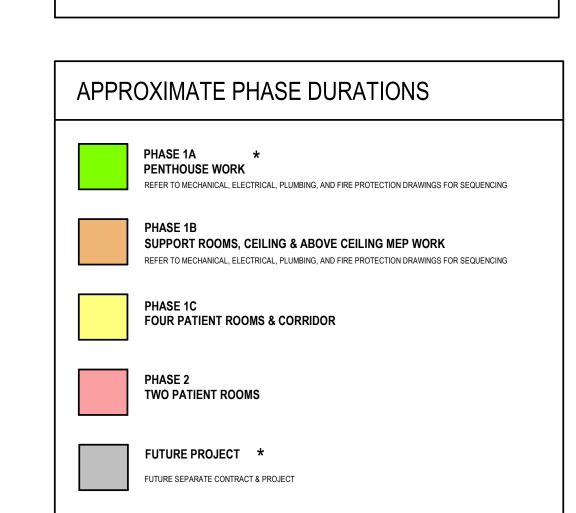
Architectural Registration Number (Missouri) - 2017014317

BSALS PROJECT NO. DATE



PHASING PLAN NOTES

- COORDINATE ALL PHASING WORK AND SEQUENCING WITH OWNER AND STAFF PRIOR TO THE START OF EACH PHASE. PHASING TO BE FINALIZED DURING PRECONSTRUCTION MEETING WITH OWNER, ARCHITECT, ENGINEER, CONTRACTOR, SUB-CONTRACTORS, AND STAFF
- B. PROVIDE TEMPORARY BARRIERS BETWEEN PHASES AS DIRECTED IN THE SPECIFICATIONS. PRIOR TO THE INSTALLATION, REMOVAL, AND SEQUENCING OF TEMPORARY BARRIERS, REFER TO THE SHUTDOWN AND SEQUENCING NOTES ON MECHANICAL SHEET M308 AND ELECTRICAL SHEETS FOR ALL ABOVE CEILING RELATED WORK.
- ALLOW A MINIMUM OF 15 BUSINESS DAYS FOR OWNER MOVE INTO NEWLY COMPLETED SPACE AND MOVE OUT OF NEXT PHASE AREAS





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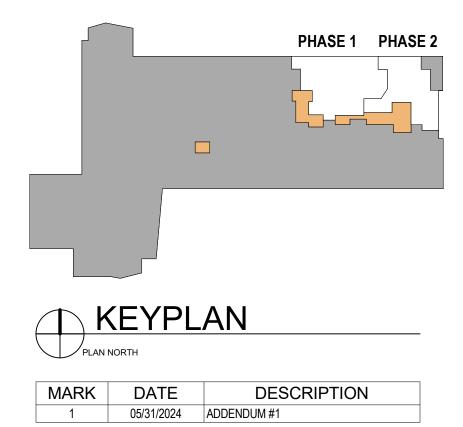
Engineering Registration Number (Missouri) - 000087



PATIENT CARE
TOWER - 8TH
FLOOR BONE
MARROW
TRANSPLANT UNIT
RENOVATION

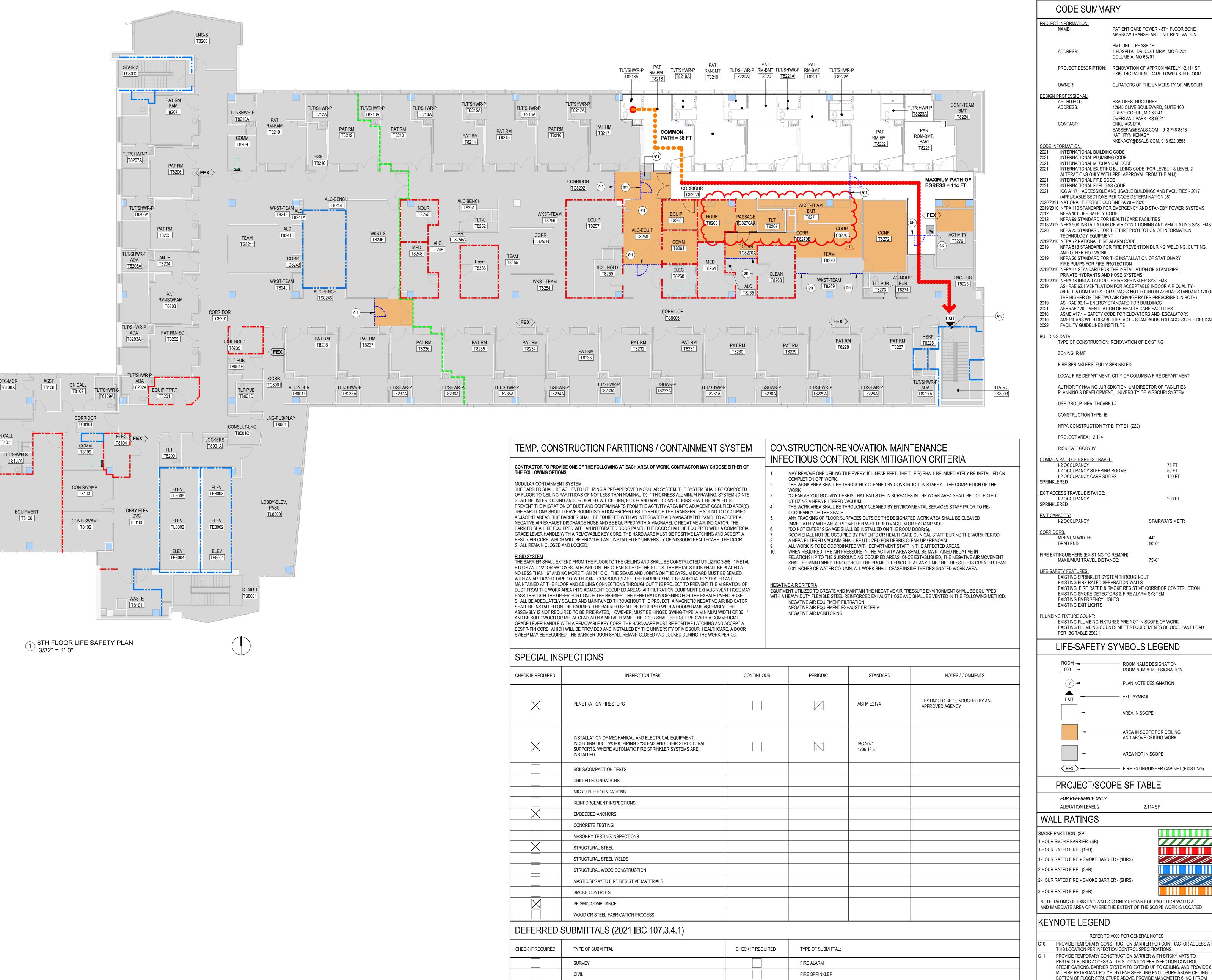
COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



PHASING PLANS





LANDSCAPING

ARCHITECTURAL

STRUCTURAL

MECHANICAL

ELECTRICAL

PLUMBING

A/V

OTHER:

OTHER:

FIRESTOPPING

CITY/PUBLIC WORK DETAILS

SEISMIC (SEISMIC RESISTANCE OF MEP SYSTEMS)

CODE SUMMARY PROJECT INFORMATION: PATIENT CARE TOWER - 8TH FLOOR BONE MARROW TRANSPLANT UNIT RENOVATION BMT UNIT - PHASE 1B 1 HOSPITAL DR, COLUMBIA, MO 65201 COLUMBIA, MO 65201 RENOVATION OF APPROXIMATELY ~2,114 SF EXISTING PATIENT CARE TOWER 8TH FLOOR CURATORS OF THE UNIVERSITY OF MISSOURI DESIGN PROFESSIONAL ARCHITECT: BSA LIFESTRUCTURES 12645 OLIVE BOULEVARD, SUITE 100 CREVE COEUR, MO 63141 OVERLAND PARK, KS 66211 EASSEFA@BSALS.COM, 913 748 8813 KATHRYN KENAGY KKENAGY@BSALS.COM, 913 522 0853 CODE INFORMATION: INTERNATIONAL BUILDING CODE INTERNATIONAL PLUMBING CODE INTERNATIONAL MECHANICAL CODE INTERNATIONAL EXISTING BUILDING CODE (FOR LEVEL 1 & LEVEL 2 ALTERATIONS ONLY WITH PRE- APPROVAL FROM THE AHJ) INTERNATIONAL FIRE CODE INTERNATIONAL FUEL GAS CODE ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - 2017 (APPLICABLE SECTIONS PER CODE DETERMINATION 08) 2020/2011 NATIONAL ELECTRIC CODE/NFPA 70 – 2020 2019/2010 NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS NFPA 101 LIFE SAFETY CODE 2012 NFPA 99 STANDARD FOR HEALTH CARE FACILITIES 2018/2012 NFPA 90A INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS 2020 NFPA 75 STANDARD FOR THE FIRE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT 2019/2010 NFPA 72 NATIONAL FIRE ALARM CODE 2019 NFPA 51B STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING AND OTHER HOT WORK NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY FIRE PUMPS FOR FIRE PROTECTION 2019/2010 NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE PRIVATE HYDRANTS AND HOSE SYSTEMS 2019/2010 NFPA 13 INSTALLATION OF FIRE SPRINKLER SYSTEMS ASHRAE 62.1 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY (VENTILATION RATES FOR SPACES NOT FOUND IN ASHRAE STANDARD 170 OR THE HIGHER OF THE TWO AIR CHANGE RATES PRESCRIBED IN BOTH) ASHRAE 90.1 – ENERGY STANDARD FOR BUILDINGS ASHRAE 170 – VENTILATION OF HEALTH CARE FACILITIES ASME A17.1 – SAFETY CODE FOR ELEVATORS AND ESCALATORS AMERICANS WITH DISABILITIES ACT - STANDARDS FOR ACCESSIBLE DESIGN FACILITY GUIDELINES INSTITUTE | BUILDING DATA: | TYPE OF CONSTRUCTION: RENOVATION OF EXISTING ZONING: R-MF FIRE SPRINKLERS: FULLY SPRINKLED LOCAL FIRE DEPARTMENT: CITIY OF COLUMBIA FIRE DEPARTMENT AUTHORITY HAVING JURISDICTION: UM DIRECTOR OF FACILITIES PLANNING & DEVELOPMENT, UNIVERSITY OF MISSOURI SYSTEM USE GROUP: HEALTHCARE I-2 CONSTRUCTION TYPE: IB NFPA CONSTRUCTION TYPE: TYPE II (222) PROJECT AREA: ~2,114 RISK CATEGORY IV COMMON PATH OF EGREES TRAVEL 75 FT I-2 OCCUPANCY I-2 OCCUPANCY SLEEPING ROOMS 50 FT I-2 OCCUPANCY CARE SUITES 100 FT **EXIT ACCESS TRAVEL DISTANCE:** I-2 OCCUPANCY 200 FT I-2 OCCUPANCY STAIRWAYS = ETR MINIMUM WIDTH: 50'-0" DEAD END: FIRE EXTINGUISHERS (EXISTING TO REMAIN): MAXIUMUM TRAVEL DISTANCE: **LIFE-SAFETY FEATURES:** EXISTING SPRINKLER SYSTEM THROUGH-OUT EXISTING FIRE RATED SEPARATION WALLS EXISTING FIRE RATED & SMOKE RESISTIVE CORRIDOR CONSTRUCTION EXISTING SMOKE DETECTORS & FIRE ALARM SYSTEM EXISTING EMERGENCY LIGHTS EXISTING EXIT LIGHTS PLUMBING FIXTURE COUNT: EXISTING PLUMBING FIXTURES ARE NOT IN SCOPE OF WORK EXISTING PLUMBING COUNTS MEET REQUIREMENTS OF OCCUPANT LOAD PER IBC TABLE 2902.1 LIFE-SAFETY SYMBOLS LEGEND ROOM NAME DESIGNATION 000 ROOM NUMBER DESIGNATION PLAN NOTE DESIGNATION EXIT SYMBOL AREA IN SCOPE AREA IN SCOPE FOR CEILING AND ABOVE CEILING WORK - AREA NOT IN SCOPE — FIRE EXTINGUISHER CABINET (EXISTING) PROJECT/SCOPE SF TABLE

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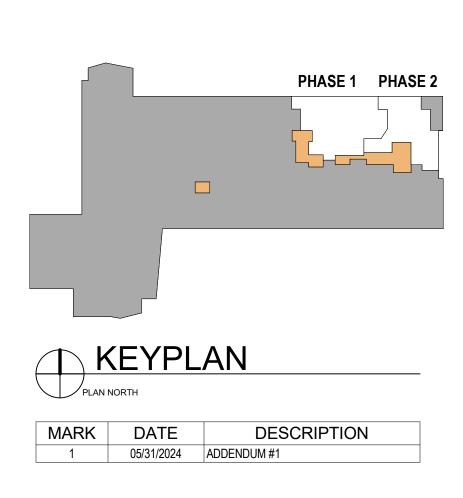
University of Missouri

MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF

BID SET



LIFE SAFETY & INFECTION CONTROL PLAN - 8TH **FLOOR**

09 MAY, 2024 BSALS PROJECT NO.

PROVIDE AN ANTE ROOM WITH NEGATIVE AIR MACHINE. A CLOSER ON THE DOOR, AND A HEPA VAC TO CLEAN BOOTS, CARTS, PEOPLE, AND SUPPLIES LEAVING THE WORKING AREA. COORDINATE WITH THE OWNER PRIOR TO THE INSTALLATION, REMOVAL, AND SEQUENCING OF AN ANTE ROOM AND REFER TO THE PHASING PLAN AND NOTES ON SHEET 6100 AND THE SHUTDOWN AND SEQUENCING NOTES ON MECHANICAL SHEET M308.

REFER TO A000 FOR GENERAL NOTES

CEILING TO INSURE CONSTRUCTION AREA IS NEGATIVE PRESSURE. PRIOR TO

AND ELECTRICAL DRAWINGS FOR ALL ABOVE CEILING RELATED WORK.

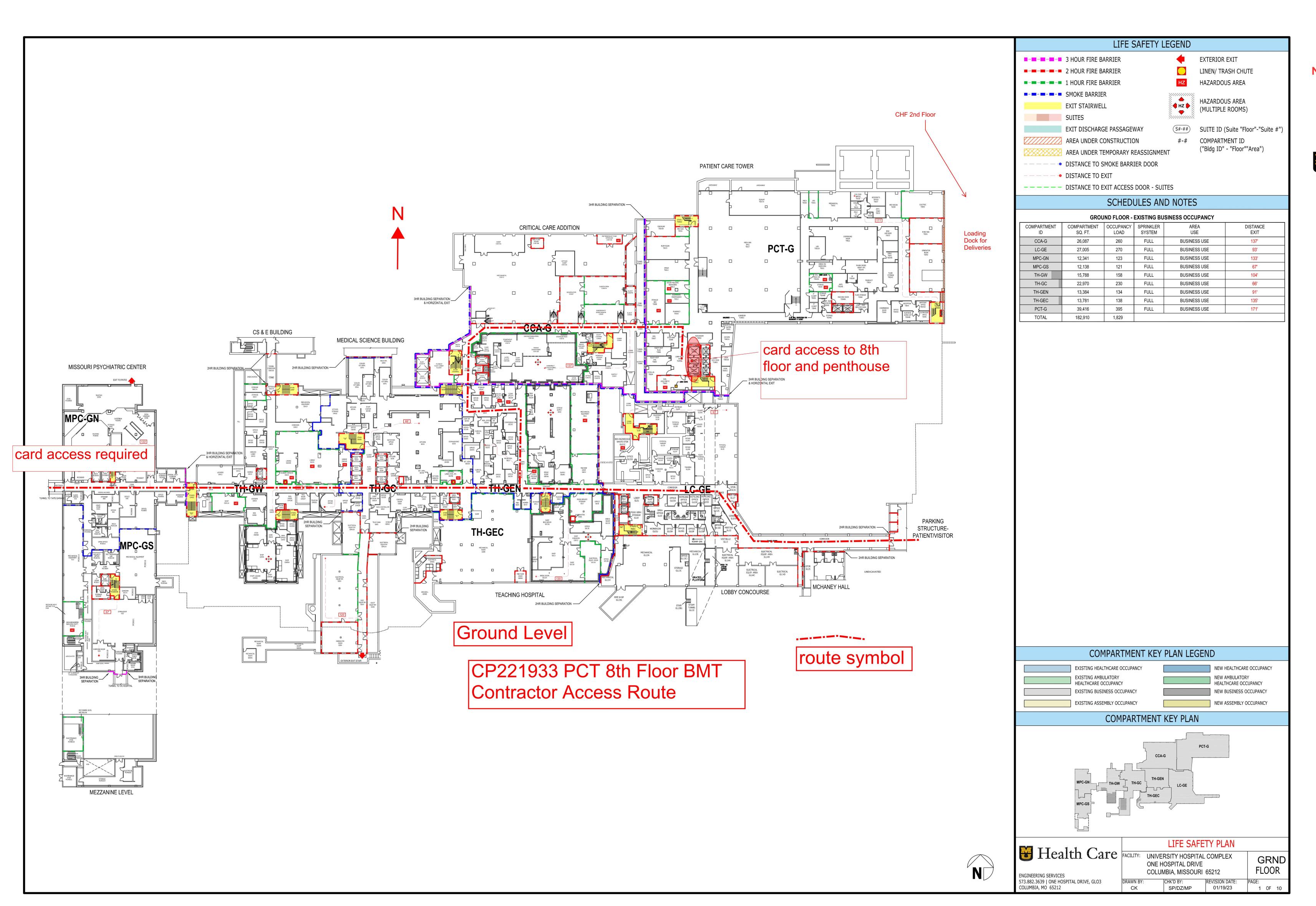
NEGATIVE AIR MACHINE. COORDINATE LOCATION WITH OWNER AND STAFF.

COORDINATE SEQUENCING WITH OWNER AND STAFF.

ZIPWALL DUST BARRIER SYSTEM.

THE INSTALLATION, REMOVAL, AND SEQUENCING OF TEMPORARY BARRIERS, REFER TO THE PHASING PLAN AND NOTES ON SHEET G100 AND THE SHUTDOWN AND SEQUENCING NOTES ON MECHANICAL SHEET M308. REFER TO MECHANICAL

2,114 SF



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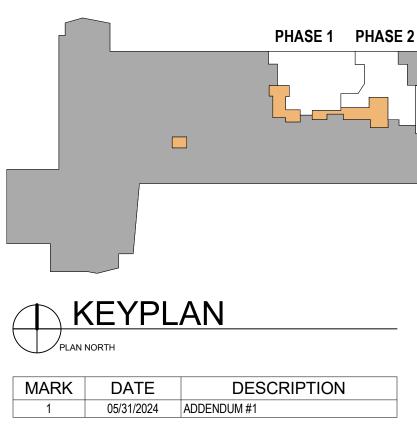


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RENOVATION

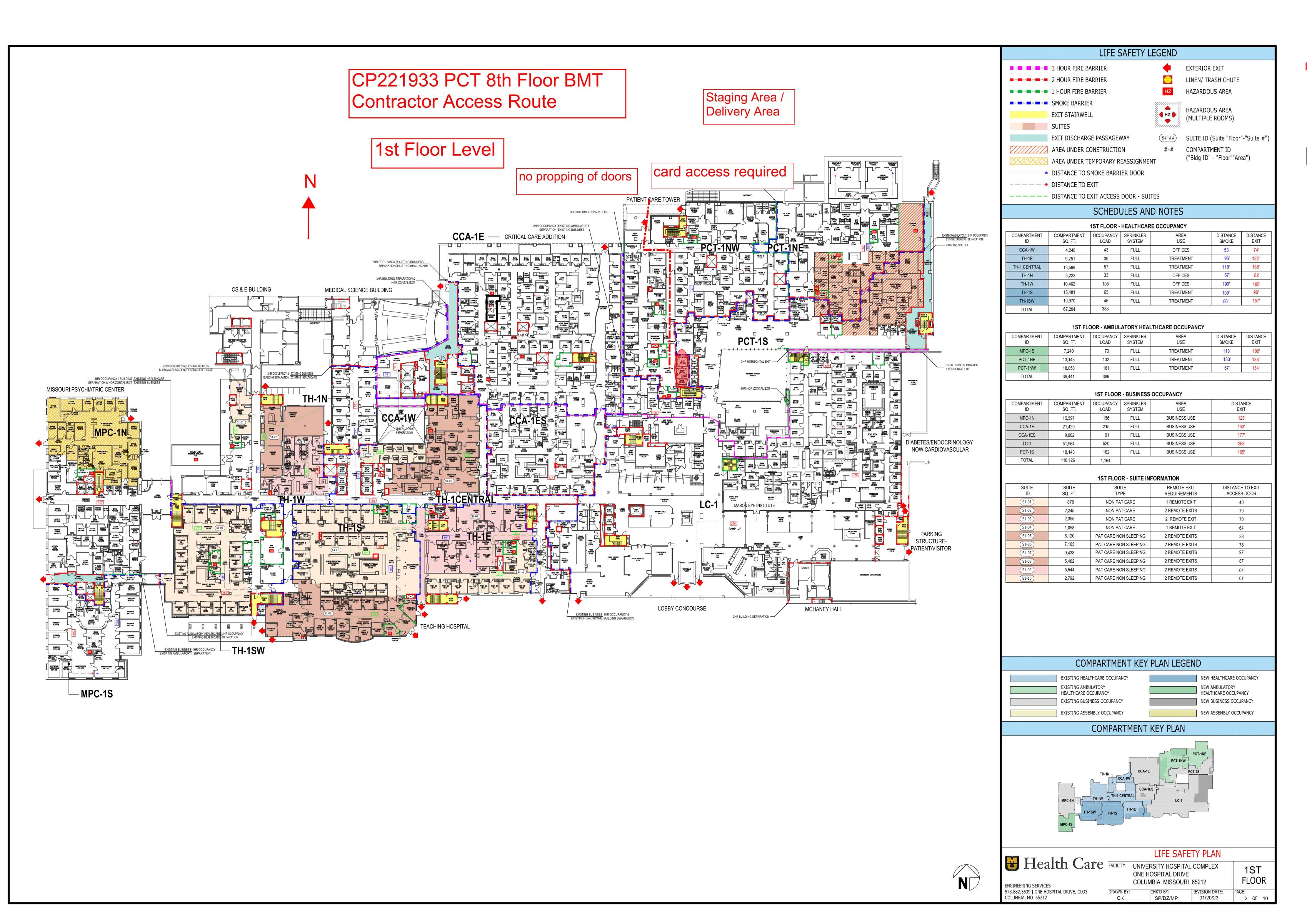
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CONTRACTOR ACCESS AND STAGING PLAN -GROUND FLOOR LEVEL

DATE 09 MAY, 2024
BSALS PROJECT NO. 14110006.02A



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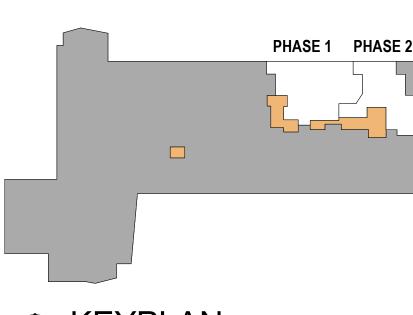
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PATIENT CARE
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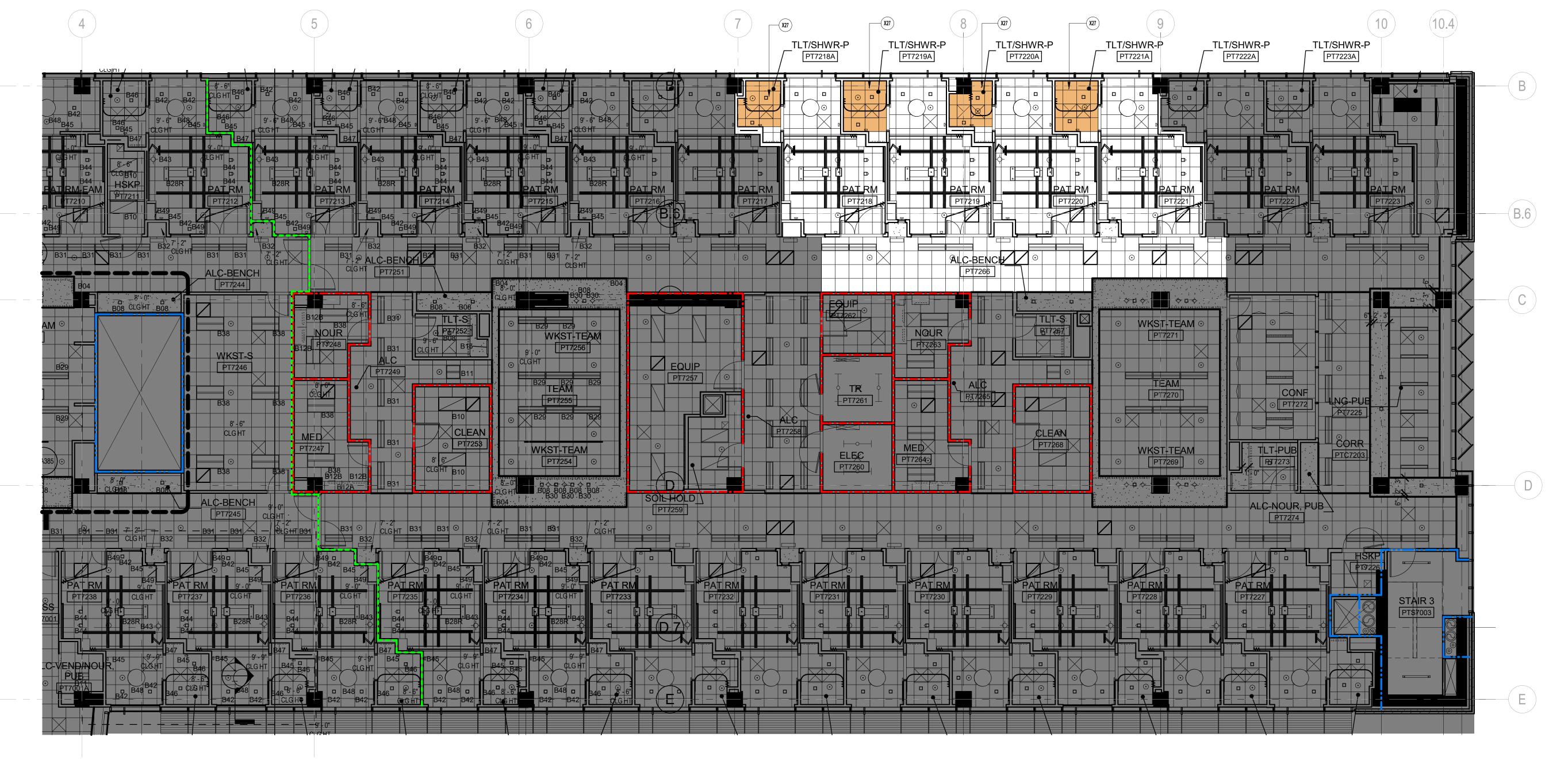
KEYPLAN

MARK DATE DESCRIPTION

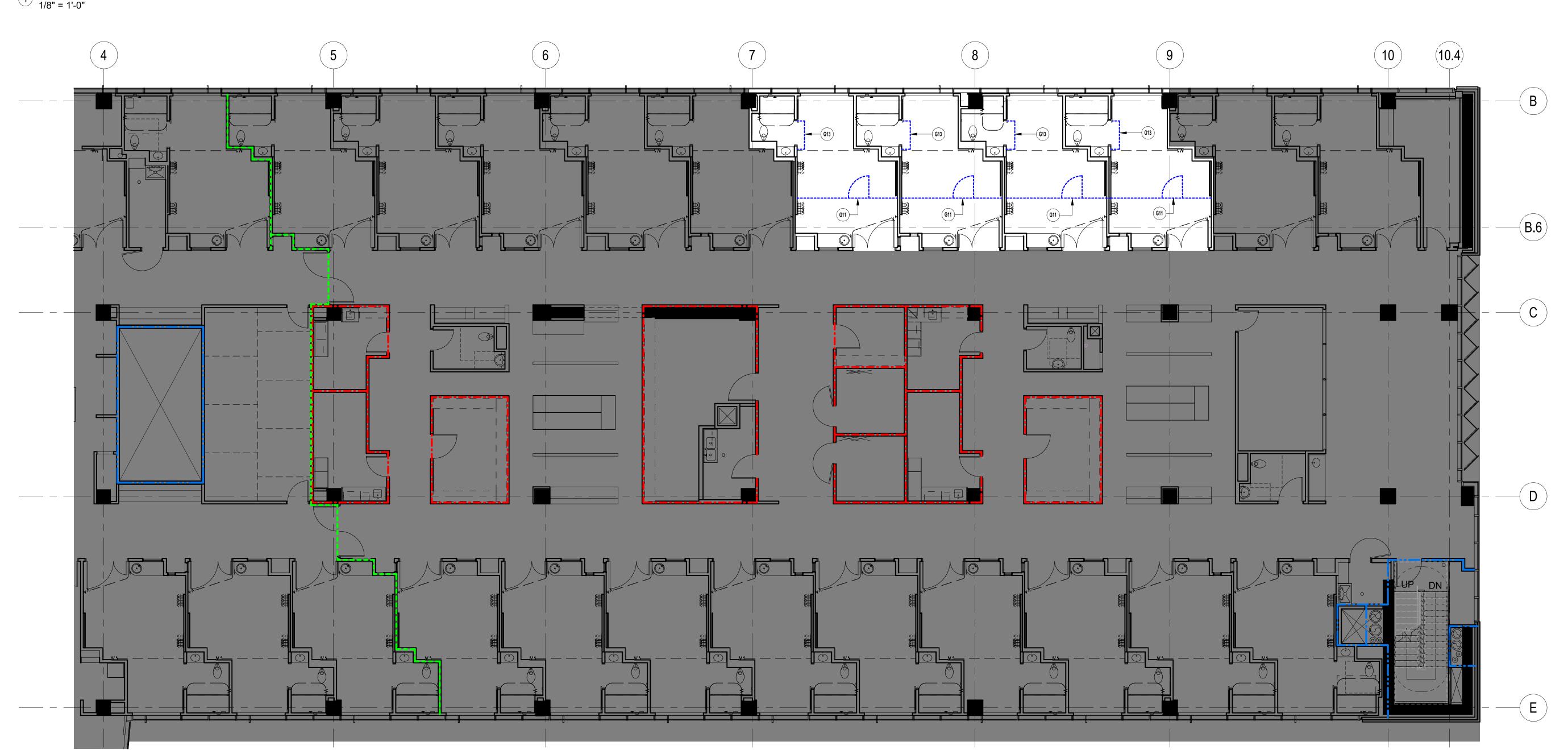
1 05/31/2024 ADDENDUM#1

CONTRACTOR ACCESS AND STAGING PLAN -FIRST FLOOR LEVEL

DATE 09 MAY, 2024
BSALS PROJECT NO. 14110006.02A



SEVENTH FLOOR REFLECTED CEILING 1 PLAN - REFERENCE ONLY 1/8" = 1'-0"



KEYNOTE LEGEND

REFER TO A000 FOR GENERAL NOTES PROVIDE TEMPORARY CONSTRUCTION BARRIER WITH STICKY MATS TO RESTRICT PUBLIC ACCESS AT THIS LOCATION PER INFECTION CONTROL SPECIFICATIONS. BARRIER SYSTEM TO EXTEND UP TO CEILING, AND PROVIDE 6 BOTTOM OF FLOOR STRUCTURE ABOVE. PROVIDE MANOMETER 6 INCH FROM

CEILING TO INSURE CONSTRUCTION AREA IS NEGATIVE PRESSURE. PRIOR TO THE INSTALLATION, REMOVAL, AND SEQUENCING OF TEMPORARY BARRIERS, REFER TO THE PHASING PLAN AND NOTES ON SHEET 6100 AND THE SHUTDOWN AND SEQUENCING NOTES ON MECHANICAL SHEET M308. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL ABOVE CEILING RELATED WORK. COORDINATE SEQUENCING WITH OWNER AND STAFF. ZIPWALL DUST BARRIER SYSTEM.

CEILING WITHIN OCCUPIED AREA TO BE TEMPORARILY REMOVED FOR SCOPE O UNDERFLOOR PLUMBING DEMO/NEW WORK, AS INDICATED BY SHADED REGION CEILING TILES SHALL NOT BE DOWN FOR MORE THAN 24 HOURS. REFER TO PLUMBING DRAWINGS AND COORDINATE EXTENT. ALL CEILINGS EXISTING CONDITIONS TO BE MAINTAINED. REPLACED DAMAGED TILES & GRID AS REQUIRED. PROTECT ALL LIGHT FIXTURES AND DIFFUSERS. WORK TO BE SCHEDULED WITH OWNER.

WALL RATINGS

SMOKE PARTITION- (SP) 1-HOUR SMOKE BARRIER- (SB) 1-HOUR RATED FIRE - (1HR) 1-HOUR RATED FIRE + SMOKE BARRIER - (1HRS) 3-HOUR RATED FIRE - (3HR)

2-HOUR RATED FIRE - (2HR) 2-HOUR RATED FIRE + SMOKE BARRIER - (2HRS)

NOTE: RATING OF EXISTING WALLS IS ONLY SHOWN FOR PARTITION WALLS AT AND IMMEDIATE AREA OF WHERE THE EXTENT OF THE SCOPE WORK IS LOCATED

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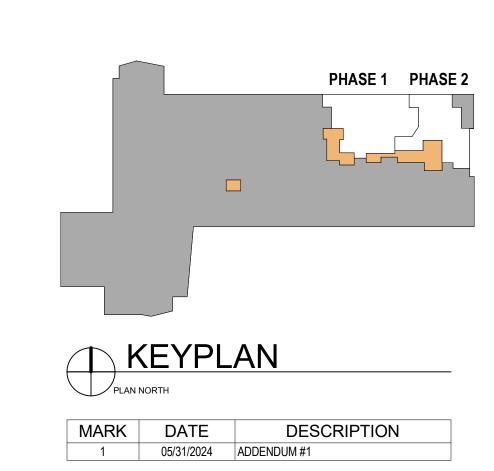
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PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW TRANSPLANT UNIT** RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



7TH FLOOR INFECTION **CONTROL & DEMOLITION** REFLECTED CEILING PLAN

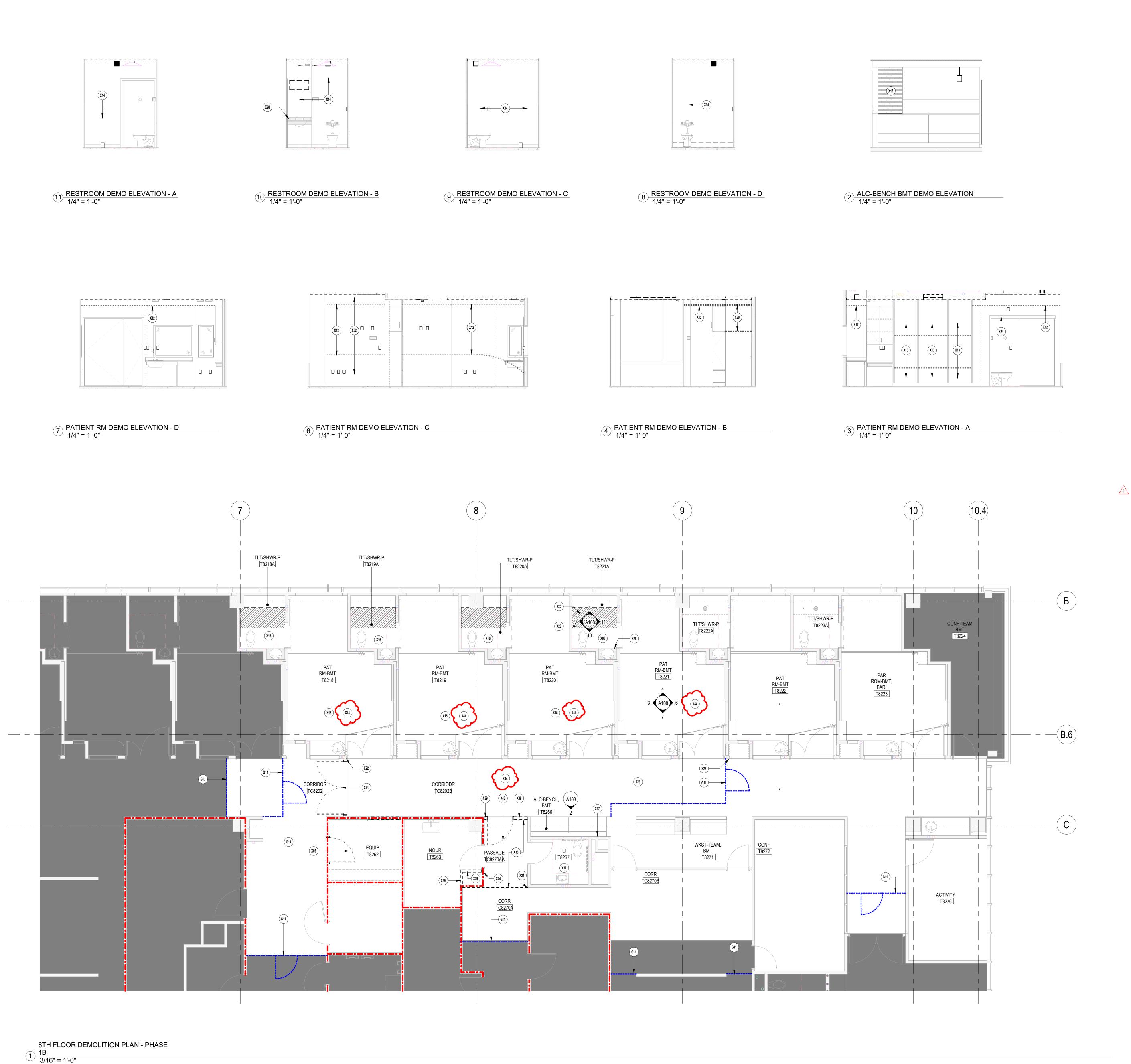
BSALS PROJECT NO.

A107

07- SEVENTH FLOOR INFECTION

CONTROL PLAN

1/8" = 1'-0"



KEYNOTE LEGEND

- REFER TO A000 FOR GENERAL NOTES PROVIDE TEMPORARY CONSTRUCTION BARRIER WITH STICKY MATS TO RESTRICT PUBLIC ACCESS AT THIS LOCATION PER INFECTION CONTROL SPECIFICATIONS. BARRIER SYSTEM TO EXTEND UP TO CEILING, AND PROVIDE 6 MIL FIRE RETARDANT POLYETHYLENE SHEETING ENCLOSURE ABOVE CEILING TO
- BOTTOM OF FLOOR STRUCTURE ABOVE. PROVIDE MANOMETER 6 INCH FROM CEILING TO INSURE CONSTRUCTION AREA IS NEGATIVE PRESSURE. PRIOR TO THE INSTALLATION, REMOVAL, AND SEQUENCING OF TEMPORARY BARRIERS, REFER TO THE PHASING PLAN AND NOTES ON SHEET G100 AND THE SHUTDOWN AND SEQUENCING NOTES ON MECHANICAL SHEET M308. REFER TO MECHANICAL
 - AND ELECTRICAL DRAWINGS FOR ALL ABOVE CEILING RELATED WORK. COORDINATE SEQUENCING WITH OWNER AND STAFF. ZIPWALL DUST BARRIER SYSTEM.
- PROVIDE AN ANTE ROOM WITH NEGATIVE AIR MACHINE, A CLOSER ON THE DOOR, AND A HEPA VAC TO CLEAN BOOTS, CARTS, PEOPLE, AND SUPPLIES LEAVING THE WORKING AREA. COORDINATE WITH THE OWNER PRIOR TO THE INSTALLATION, REMOVAL, AND SEQUENCING OF AN ANTE ROOM AND REFER TO THE PHASING PLAN AND NOTES ON SHEET G100 AND THE SHUTDOWN AND SEQUENCING NOTES ON MECHANICAL SHEET M308.
- REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY. PREPARE OPENING TO BE INFILLED WITH NEW WALL CONSTRUCTION. SALVAGE DOOR HARDWARE FOR REUSE AS NEEDED FOR THE NEW DOOR TO BE INSTALLED ON THE NORTH SIDE OF EQUIPMENT ROOM T8262. REFER TO ARCHITECTURAL DIMENSION PLANS FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING MOSAIC TILE FLOORING & CERAMIC WALL TILE IN THEIR ENTIRETY. PREPARE ALL REMAINING SURFACES TO RECEIVE NEW FINISH AS SCHEDULED. REF: NEW WORK PLANS.
- REMOVE HORIZONTAL METAL GYP. REVEAL. PATCH REMAINING VOID LEFT BY REVEAL; PREP ALL SURFACES FOR NEW FINISH AS SCHEDULED. REMOVE PLASTIC LAMINATE PANEL & HORIZONTAL REVEAL TRIM.
- REMOVE EXISTING WALL TILE. PATCH & REPAIR REMAINING SURFACES. PREP FOR NEW FINISH AS SCHEDULED. REF: NEW WORK PLANS. REF: T8221 FOR TYP. DEMO ELEVATIONS.
- REF: T8221A FOR TYP. DEMO ELEVATIONS AND NOTES. REMOVE GLASS MOSAIC WALL TILE. PATCH & REPAIR REMAINING SURFACE. PREP FOR NEW FINISH AS SCHEDULED. REF: NEW WORK PLANS.
- REMOVE SLIDER DOOR TOP VALANCE IN PREPARATION FOR NEW SLOPED
- REMOVE EXISTING VINYL WALLCOVERING ON ALL WALLS UP TO THIS LOCATION. REMOVE EXISTING BUMPER RAILS & HANDRAILS. SALVAGE & STORE FOR RE-INSTALLATION IN SAME LOCATIONS, REF: NEW WORK PLANS.
- REMOVE EXISTING SNAP-ON CORNER GUARDS & ASSOCIATED RETAINERS. SALVAGE & RETURN TO OWNER FOR STORAGE. REMOVE EXISTING TRENCH DRAIN IN ITS ENTIRETY, AND PREPARE THE EXISTING DRAIN HOLE THROUGH THE SLAB AS REQUIRED TO RECEIVE NEW DRAIN SLEEVE.
- FIELD VERIFY AND TEMPORARILY REMOVE CEILING FROM ROOM BELOW AS NEEDED TO ACCESS UNDERSIDE OF FLOOR. CEILING TILES SHALL NOT BE DOWN FOR MORE THAN 24 HOURS. ALL CEILINGS EXISTING CONDITIONS TO BE MAINTAINED. PATCH/PAINT GYP. BD. CEILINGS AS REQUIRED. REPLACE DAMAGED TILES & GRID AS REQUIRED. PROTECT ALL LIGHT FIXTURES AND DIFFUSERS. ACCESS TO ROOM BELOW AND WORK TO BE SCHEDULED WITH OWNER. REMOVE EXISTING SLAB INFILL MATERIAL IN ITS ENTIRETY AND PREPARE
- REMAINING SURFACE OF FLOOR FOR RE-SLOPING TO THE NEW DRAIN SYSTEM. TEMPORARILY REMOVE THE EXISTING SINK AND COUNTERTOP TO ALLOW FOR TILE REMOVAL. PROTECT AND STORE SINK, COUNTERTOP AND BACKSPLASH FOR RE-INSTALLATION IN NEW WORK.
- REMOVE HORIZONTAL METAL REVEAL FROM EXISTING PLASTIC LAMINATE WALL PANEL. REF: NEW WORK PLANS FOR NEW FINISH REMOVE EXISTING WALL COVERING. PATCH AND PREP WALL AS REQUIRED FOR NEW FINISH AS SCHEDULED. RE: NEW WORK PLANS FOR ADDITIONAL
- REMOVE EXISTING CARPET AND BASE IN ITS ENTIRETY UP TO INDICATED DASHED LINE. REMOVE EXISTING WALL COVERING. PREPARE FLOOR AND WALL SURFACES TO RECEIVE NEW FLOORING AND BASE. REFER TO NEW WORK PLAN
- FOR ADDITIONAL INFORMATION. REMOVE EXISTING FLOOR AND WALL TILE IN ITS ENTIRETY. PREPARE FLOOR AND WALL SURFACE TO RECEIVE NEW FLOORING AND WALL FINISH. TEMPORARILY REMOVE PLUMBING FIXTURES AS REQUIRED FOR INSTALLATION OF NEW FINISHES. RE-INSTALL PLUMBING FIXTURES AND WALL MOUNTED ACCESSORIES IN ORIGINAL LOCATION AFTER COMPLETION. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- REMOVE PORTION OF EXISTING WALL. REFER TO NEW WORK FLOOR PLAN FOR
- LOCATION & ADDITIONAL INFORMATION. REMOVE AND SALVAGE EXISTING DOOR, DOOR FRAME, AND DOOR HARDWARE FOR RE-INSTALLATION AT THE NEW SOUTH WALL ADDED IN PASSAGE TC8270AA.

REMOVE AND SALVAGE EXISTING DOOR, DOOR FRAME, AND DOOR HARDWARE FOR RE-INSTALLATION AT THE SAME LOCATION FOLLOWING ABOVE CEILING

DUCT CHASE CONSTRUCTION
TEMPORARILY REMOVE WINDOW BLINDS, CURTAIN TRACKS, AND WALL MOUNTED ACCESSORIES SUCH AS GLOVE BOX HOLDERS, BRACKETS, FILE HOLDERS, ETC, AS REQUIRED. RE-INSTALL BACK TO THEIR RESPECTIVE ORIGINAL LOCATIONS AFTER COMPLETION OF WORK.

WALL RATINGS

SMOKE PARTITION- (SP) 1-HOUR SMOKE BARRIER- (SB) 1-HOUR RATED FIRE - (1HR) 1-HOUR RATED FIRE + SMOKE BARRIER - (1HRS) 2-HOUR RATED FIRE - (2HR) 2-HOUR RATED FIRE + SMOKE BARRIER - (2HRS) 3-HOUR RATED FIRE - (3HR)

NOTE: RATING OF EXISTING WALLS IS ONLY SHOWN FOR PARTITION WALLS AT

AND IMMEDIATE AREA OF WHERE THE EXTENT OF THE SCOPE WORK IS LOCATED

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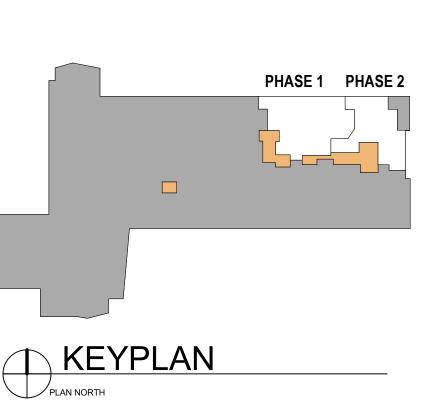
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TRANSPLANT UNIT

RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



DESCRIPTION

MARK DATE

1 05/31/2024 ADDENDUM #1

8TH FLOOR - DEMOLITION PLANS & ELEVATIONS

BSALS PROJECT NO.

A108

CEILING REMOVAL LEGEND

CEILING REMOVAL LEGEND

EXISTING CEILING TILES AND GRIDS TO BE
REMOVED IN THEIR ENTIRETY.

EXISTING CEILING TILES AND GRIDS WITHIN
OCCUPIED AREA TO BE REMOVED AS REQUIRED
PIRE PROTECTION SCOPE. REPERT TO KETNOTIE
X38 FOR ADDITIONAL INFORMATION.

EXISTING CEILING TILES TO REMAIN.
OUTSIDE OF SCOPE BOUNDARY.

WALL RATINGS
SMOKE PARTITION-(SP)
1. HOUR RATED FIRE - (191R)
1. HOUR RATED FIRE - (191R)
2. HOUR RATED FIRE - (201R)
2. HOUR RATED FIRE - (201R)
NOTE RATING OF EXISTING WHATO IMMEDIATE AREA OF THE

PAT RM

SMOKE PARTITION- (SP)

1-HOUR SMOKE BARRIER- (SB)

1-HOUR RATED FIRE - (1HR)

1-HOUR RATED FIRE + SMOKE BARRIER - (1HRS)

2-HOUR RATED FIRE + SMOKE BARRIER - (2HRS)

3-HOUR RATED FIRE - (3HR)

NOTE: RATING OF EXISTING WALLS IS ONLY SHOWN FOR PARTITION WALLS AT AND IMMEDIATE AREA OF WHERE THE EXTENT OF THE SCOPE WORK IS LOCATED

REFER TO A000 FOR GENERAL NOTES

X10 REMOVE EXISTING PRIVACY CURTAIN & RETURN TO OWNER. EXISTING CURTAIN TRACK TO REMAIN.

X20 REMOVE EXISTING CEILING TILE AND GRID.

X34 REMOVE PORTION OF EXISTING WALL ABOVE CEILING TO PROVIDE ROOM FOR NEW MECHANICAL SUPPLY AND RETURN AIR DUCT CHASE. REFER TO NEW WORK PLAN AND SECTION DETAILS FOR RATED WALLS AND SOFFIT CONSTRUCTION ABOVE CEILING.

X35 REMOVE EXISTING FAN FILTER UNITS.

PAINT AS SCHEDULED FOR CEILINGS ON THE INTERIOR FINISH SPECIFICATIONS. PROTECT ALL LIGHT FIXTURES AND

DIFFUSERS. WORK TO BE SCHEDULED WITH OWNER.

ABOVE CEILING.

REMOVE EXISTING FAN FILTER UNITS.

REMOVE CEILING TILES AND GRIDS WITHIN OCCUPIED AREA AS REQUIRED FOR SCOPE INDICATED BY SHADED REGION.
REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS AND COORDINATE EXTENT OF SCOPE. SALVAGE ALL EXISTING CEILING TILES FOR RE-INSTALLATION. CEILING TILES EXISTING CONDITIONS TO BE MAINTAINED. REPLACE DAMAGED TILES AS REQUIRED TO MATCH EXISTING. ANY REMOVED AND REPLACED OR CUT AND

-(B.6)

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Engineering Registration Number (Missouri) - 000087

BSA LifeStructures

12645 Olive Boulevard, Suite 100

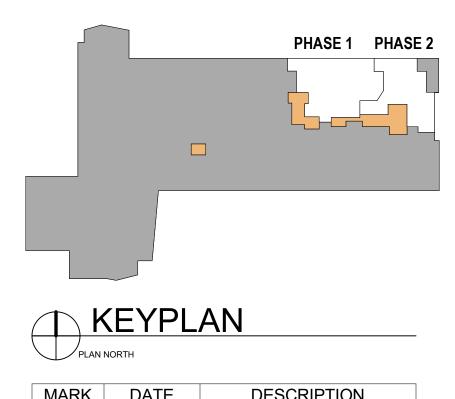
University of Missouri

MU PROJECT #: CP221933

PATIENT CARE
TOWER - 8TH
FLOOR BONE
MARROW
TRANSPLANT UNIT
RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



1 05/31/2024 ADDENDUM #1

8TH FLOOR - DEMOLITION REFLECTED CEILING PLAN

DATE
BSALS PROJECT NO.

A109

8TH FLOOR DEMOLITION REFLECTED
CEILING PLAN - PHASE 1B
3/16" = 1'-0"

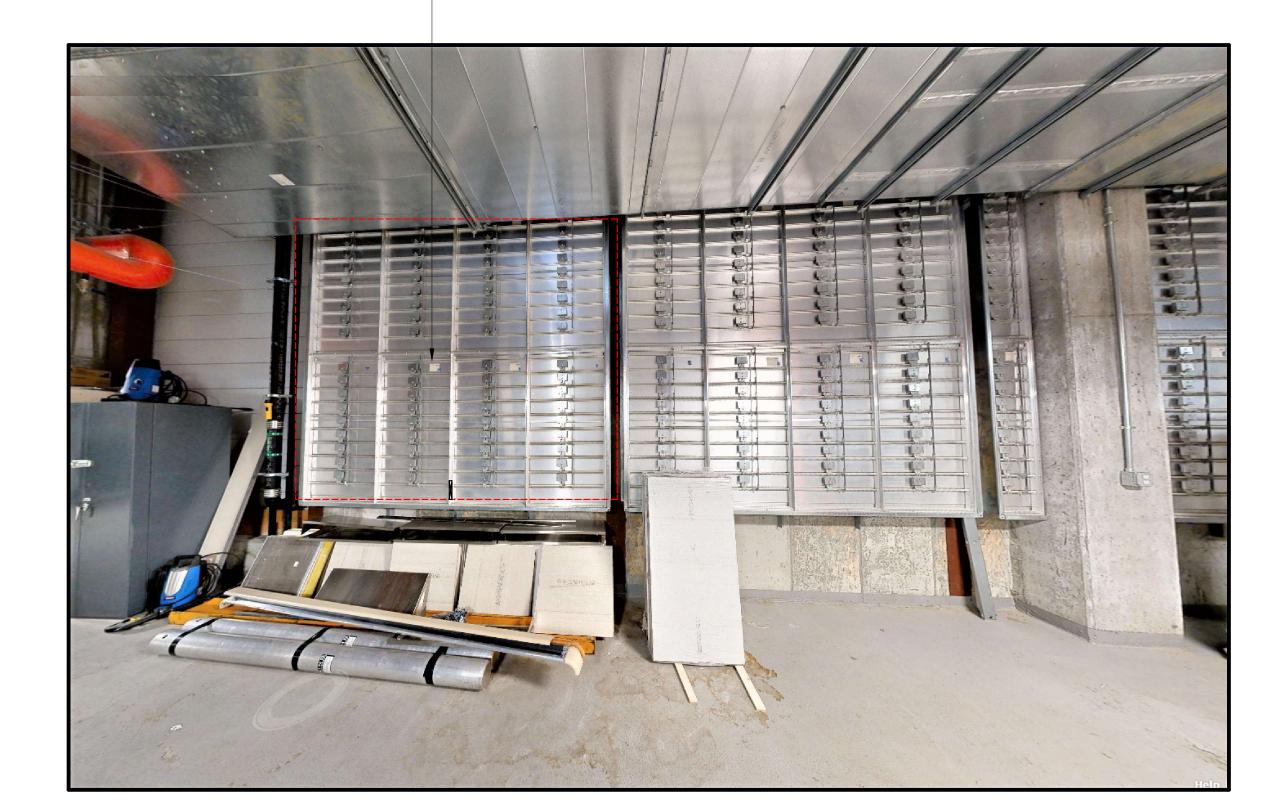
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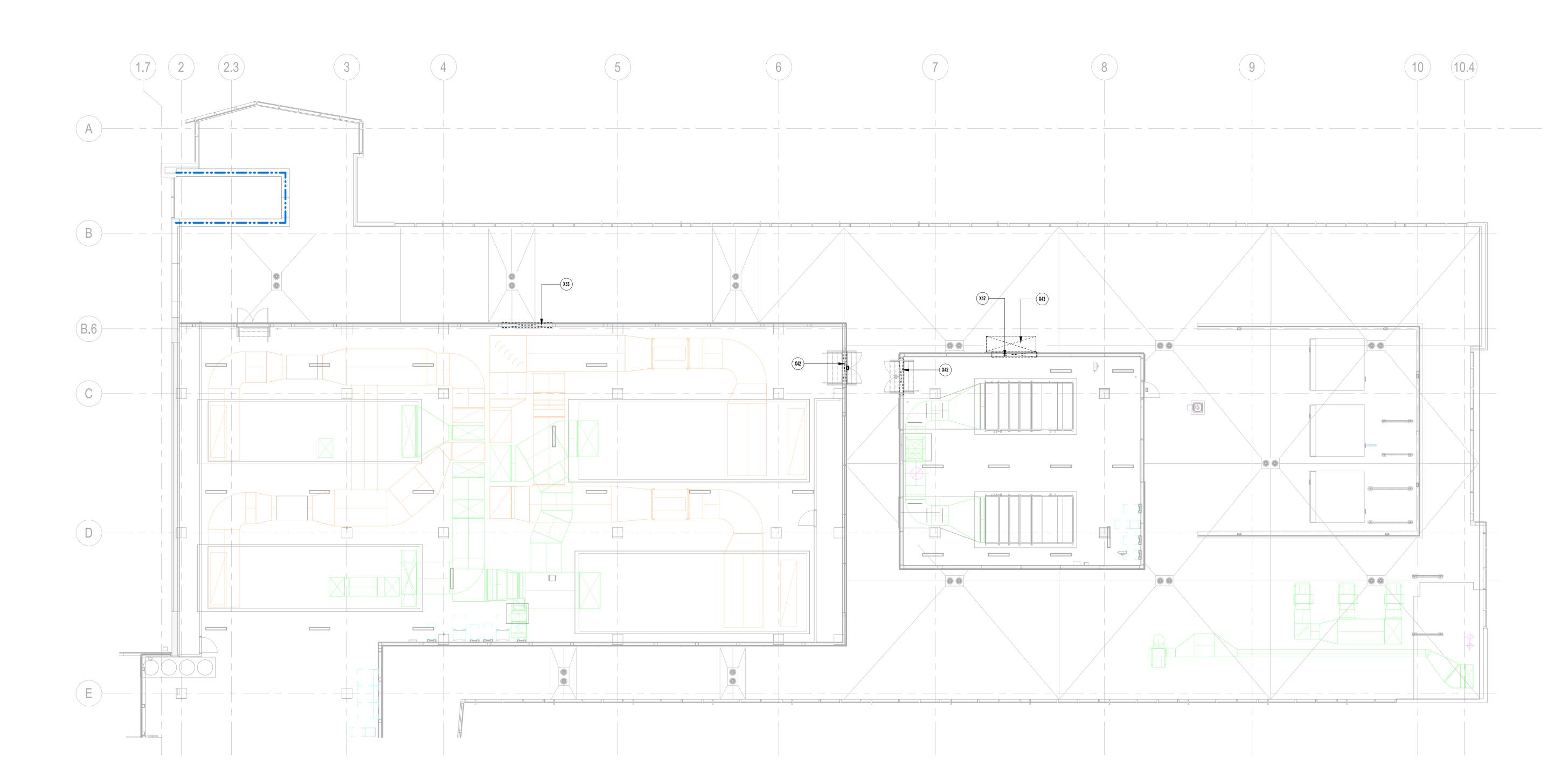
PENTHOUSE MECHANICAL VENTILATION

LOUVERS - EXTERIOR

12" = 1'-0"



PENTHOUSE MECHANICAL VENTILATION
LOUVERS - INTERIOR
12" = 1'-0"



EXISTING PENTHOUSE DEMOLITION

1 PLAN

1" = 10' 0"

KEYNOTE LEGEND

REFER TO A000 FOR GENERAL NOTES

TEMPORARILY REMOVE EXISTING VENTILATION LOUVERS TO PROVIDE ACCESS FOR THE CONVEYANCE OF THE NEW AIR HANDLING UNIT TO THE MECHANICAL PENTHOUSE. AREA SHOWN IS AN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF THE NEW UNIT. FIELD VERIFY FOR THE BEST ROUTE TO MOVE THE UNIT TO POSITION. RE-INSTALL LOUVERS BACK TO THEIR ORIGINAL CONDITION.

REMOVE PORTION OF EXISTING INSULATED METAL WALL PANELS AS REQUIRED TO PROVIDE OPENING FOR NEW MECHANICAL SUPPLY AND RETURN AIR DUCTS. REPAIR AND PATCH THE EXISTING INSULATED METAL PANELS AROUND THE NEW OPENING AS REQUIRED TO RESTORE TO ORIGINAL CONDITION. REFER TO NEW WORK PLAN AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

REMOVE EXISTING ROOFING AND CONCRETE SLAB BETWEEN STRUCTURAL RIBS AS NEEDED TO PROVIDE NEW OPENING CHASE FOR AIR SUPPLY AND RETURN MECHANICAL DUCTS. REPAIR AND PATCH THE EXISTING ROOF AROUND THE NEW CHASE OPENING AS REQUIRED TO RESTORE TO ORIGINAL CONDITION. REFER TO NEW WORK PLANS, SECTIONS, DETAILS, AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

BSA LifeStructures
12645 Olive Boulevard, Suite 100
Creve Coeur, MO 63141

ph 314.754.6306

Architectural Registration Number (Missouri) - 2017014317

MCCLUREENGINEERING

MCCLURE ENGINEERING 1000 CLARK AVE. ST. LOUIS, MO 63102 ph: 314.645.6232

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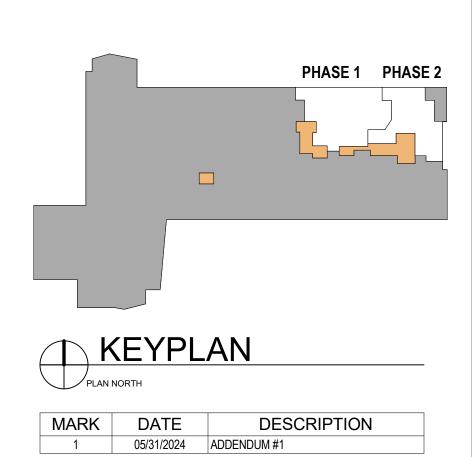


PATIENT CARE

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RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



PENTHOUSE DEMOLITION PLAN

DATE 09 MAY, 2024
BSALS PROJECT NO. 14110006.02A



GENERAL FINISH NOTES

- PATTERN NAME, COLOR AND NUMBER FOR EACH MATERIAL ARE GIVEN WHENEVER POSSIBLE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT / INTERIOR DESIGNER TO ENSURE THAT THE CORRECT MATERIAL IS INSTALLED. PAINT ALL BULKHEADS, SOFFITS, AND GYPSUM WALLBOARD CEILING SURFACES (EP4)
- U.N.O. ALL BULKHEADS, SOFFITS, AND GYPSUM WALLBOARD CEILING SURFACES SHALL BE FINISHED WITH THE SAME MATERIAL AND / OR COLOR ON ALL FACES (VERTICAL AND

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PATIENT CARE

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FLOOR BONE

MARROW

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RENOVATION

COLUMBIA, MO

FOR THE CURATORS OF THE UNIVERSITY OF

MISSOURI

BID SET

KEYPLAN

1 05/31/2024 ADDENDUM #1

PLAN NORTH

MARK DATE

PHASE 1 PHASE 2

DESCRIPTION

- HORIZONTAL), U.N.O. REFER TO REFLECTED CEILING PLAN(S) FOR ADDITIONAL CEILING FINISHES. ALL FLOOR MATERIAL TRANSITIONS SHALL BE CENTERED UNDER THE DOOR IN THE
- ALL FLOORING SHALL BE INSTALLED PERPENDICULAR TO ROOM WALLS U.N.O. PROVIDE SEALANT AT ALL DOOR AND WINDOW FRAMES WHERE THEY MEET HARD
- THERE SHALL NOT BE PAINT CONDITIONS THAT OCCUR CAUSING FINISH OR COLOR TO TERMINATE ON AN OUTSIDE CORNER UNLESS SPECIFICALLY NOTED OTHERWISE. IF THIS CONDITION OCCURS, BRING IT TO THE ATTENTION OF THE INTERIOR DESIGNER
- PATCH AND MATCH EXISTING FINISHES AS NEEDED FOR NEW CONSTRUCTION. PAINT ALL WALL MOUNTED GRILLES, VENTS, ELECTRICAL PANELS, ACCESS PANELS, ETC. TO MATCH ADJACENT WALL U.N.O.
- FINISH BEHIND FIXED EQUIPMENT SUCH AS CABINETRY, CASEWORK, CHALK AND TACK / MARKERBOARDS, LOCKERS ETC
- PROVIDE CONTINUOUS SEALANT AT ALL JOINTS OF DISSIMILAR MATERIALS, INCLUDING BUT NOT LIMITED TO, AT CASEWORK AND WALL
- SHOWN ON REFLECTED CEILING PLANS FOR REFERENCE ONLY. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. PATCH AND REPAIR ALL DEMO'ED, PENETRATED AND DAMAGED WALLS DUE TO ABOVE

- REFER TO A000 FOR GENERAL NOTES
- PROVIDE CEMENTITIOUS FLOOR FILL MATERIAL AS REQUIRED TO CREATE SLOPING SUBSTRATE WITH A SLOPE NOT GREATER THAN 1/4"=1'-0" MAXIMUM SLOPE. PROVIDE FLUID APPLIED MEMBRANE BEFORE INSTALLING FINAL FLOOR FINISH MATERIAL.
- PROVIDE PENETRATION FIRESTOPPING SYSTEM AT NEW DRAIN LOCATION TO MAINTAIN THE ORIGINAL FIRE-RESISTANCE RATING CONSTRUCTION OF THE FLOOR PENETRATED. NEW FIRE RATED SHAFT WALL AND SOFFIT ABOVE CEILING FOR NEW MECHANICAL AIR SUPPLY AND RETURN DUCT CHASE.
- PROVIDE NEW GYPSUM BOARD CEILING. ALIGN EXTENT OF NEW GYPSUM BOARD CEILING TO MATCH OUTSIDE LINE OF SHOWER TRENCH DRAIN BELOW. PAINT EP1.
- NON-PERFORATED) IN NEW GRID. INSTALLATION HEIGHT TO MATCH EXISTING. INSTALL SALVAGED LAY-IN CEILING TILES IN NEW GRID. NEW TILES REPLACING DAMAGED
- INFILL WALL CONSTRUCTION TO MATCH EXISTING WALL. ALIGN GYP. BD. ON BOTH SIDES. PATCH WALL, FLOORING, AND BASE AS REQUIRED TO MATCH ADJACENT AND RECEIVE NEW
- REF: T8221 FOR TYPICAL FINISHES & ELEVATIONS. INSTALL NEW RIGID SHEET WALL PROTECTION PANEL IN COLOR & HEIGHT TO MATCH
- INSTALL NEW FIXED PLASTIC LAMINATE PANEL W/ PVC EDGEBAND ABOVE EXISTING CABINET DOORS TO CLOSE OPENING. LAMINATE (PL1) & EDGEBAND TO MATCH EXISTING. FIELD VERIFY
- PREVIOUS DEVICE, MED GAS & OUTLET LOCATIONS. INSTALL NEW CUSTOMIZED 0.040 ANODIZED ALUMINUM SLOPED VALANCE ACCESSORY ON TOP OF EXISTING DOOR CLOSER LOCATED ABOVE DOOR FRAME. FINISH TO MATCH EXISTING
- NEW PLASTIC LAMINATE FOOTWALL PANEL (PL2) IN EXISTING FRAME SYSTEM. UTILIZE ALL EXISTING DEVICE & OUTLET LOCATIONS. INSTALL 3/4"X1 1/4" METAL ANGLE SCRIBE MOLDING TO COVER THE GAP BETWEEN THE TOP
- OF THE EXISTING CABINET AND CEILING. THE TRIM MATERIAL TO MATCH THE EXISTING HORIZONTAL METAL TRIM ON CASEWORK. NEW PLASTIC LAMINATE WALL PANEL, THICKNESS & FINISH TO MATCH EXISTING INFILL GAP LEFT FROM REMOVED REVEALS WITH METAL STRIP TO BE FLUSH WITH LAMINATE
- WALL PANELS. FINISH SHALL MATCH TOP TRIM. INSTALL NEW FLUSH-BACKS MATCHING EXISTING ON EACH SIDE/END OF THE EXISTING SINK COUNTER AFTER REMOVAL OF THE EXISTING WALL TILES. REUSE/RE-INSTALL THE EXISTING MIDDLE FLUSH-BACK ALONG WITH THE EXISTING SINK COUNTERTOP.

FINISH REMARKS

MULTIPLE WALL FINISHES OCCUR, REF: ACCENT WALL LOCATIONS FOR COLOR. 4" INTEGRAL WALL BASE. REF: DETAIL 13/A118.

FINISH ABBREVIATIONS

* NOT ALL FINISHES LISTED ARE USED IN PROJECT

- ACB ACOUSTICAL CEILING ACOUSTICAL CEILING TILE ACCESS FLOORING ACOUSTICAL WALL CARPET
- BAMBOO FLOORING
- CORNER GUARD CONCRETE MASONRY UNIT CAST STONE OR CULTURED
- CERAMIC TILE CRASH RAIL OR CHAIR RAIL DECORATIVE GLASS DECORATIVE GLASS FILM DECORATIVE PANEL
- EPOXY PAINT EPOXY RESIN BASE EPOXY RESIN FLOOR EXISTING TO REMAIN
- FIBER REINFORCED PANEL FABRIC WALLCOVERING GYP BD GYPSUM BOARD
- LINOLEUM SHEET FLOORING LINOLEUM TILE FLOORING LUXURY VINYL TILE MARKER BOARD
- MARKER WALLCOVERING PLASTIC LAMINATE PATCH TO MATCH EXISTING
- TACKBOARD TACKABLE FABRIC TERRAZZO FLOORING TERRAZZO BASE TERRAZZO FLOOR TILE VINYL BASE VISION CONTROL FILM VINYL COMPOSITION TILE VINYL ENHANCED TILE VINYL WALL COVERING

WOOD BASE

WOOD PANELING

WOOD FLOORING

WVW WOOD VENEER WALLCOVERING

WALK-OFF MAT

WALL PROTECTION ASSEMBLY

PORCELAIN TILE BASE

RUBBER SHEET FLOORING

RUBBER TILE FLOORING

RESILIENT STAIR TREAD

SOUND-ABSORBING PANEL

STATIC DISSIPATIVE TILE

SOLID SURFACE WALL PANEL

STAINLESS STEEL BASE

STONE OR STONE VENEER

STONE SLAB WALL PANEL

SHEET WALL PROTECTION

SEALED CONCRETE

SHOWER CURTAIN

SOLID SURFACE BASE

SPECIALTY COATING

SOLID SURFACE SOLID SURFACE SINK

SHEET VINYL

SOLID VINYL TILE

QUARTZ SURFACE

RESILIENT BASE

ROLLER SHADE

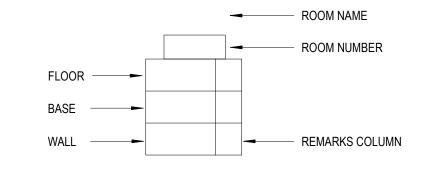
(SPEC 03300)

RUB RAIL

FLOOR TRANSITION INDICATOR

FLOOR FINISH AS INDICATED FLOOR FINISH TRANSITION — X CPT2 — DIFFERING FLOOR FINISH

ROOM FINISH TAG LEGEND



OOM UNLESS OTHERWISE NOTED BY NOTE, REMARK, DETAIL, AND/OR ELEVATION

SYMBOL INDICATES MATERIAL / PATTERN / GRAIN DIRECTION

WALL RATINGS

- 1-HOUR SMOKE BARRIER- (SB) 1-HOUR RATED FIRE - (1HR)
- 1-HOUR RATED FIRE + SMOKE BARRIER (1HRS)
- 2-HOUR RATED FIRE + SMOKE BARRIER (2HRS) 3-HOUR RATED FIRE - (3HR)

NOTE: RATING OF EXISTING WALLS IS ONLY SHOWN FOR PARTITION WALLS AT AND IMMEDIATE AREA OF WHERE THE EXTENT OF THE SCOPE WORK IS LOCATED

8TH FLOOR - NEW WORK PLANS, ELEVATIONS & **DETAIL**

BSALS PROJECT NO.

MECHANICAL AND		IDINIC	· EOI	IIDME	· NIT	Seismic Desig	n Category:	С
MECHANICAL AND COMPONENTS EARTH			=			Seismic Si	te Class:	С
COMPONENTS EARTH	ΧΟΉΝ		AD N	LJIJ	ANCE	Risk Ca	tegory	IV
	_	e to Floors, s, etc.	Sway I	Bracing		ofessionally Sealed Sway Bracing Details		
Listing of Equipment and System Components	Not Provided for Project	Provided for Project	Not Provided for Project		On Const. Documents Drawing No. or Spec. Section	SUBSEQUENT SUBMITTAL Separate Permit & Plans	EXEMPTIONS	COMMENTS / NOTES
FIRE PRO	TECTION,	DETECTIO	N & ALAR	M EQUIPM	ENT & SYSTEM C	OMPONENTS; IP = 1.5		
Fire Sprinkler Piping	X			X		X		
(High Deformability Piping Systems) Welded, Brazed, Soldered and Flanged Steel and Copper Piping Suspended From Structure								
Steel / Copper Piping	Х			Х		X		
(Limited Deformability Piping Systems) Threaded and Grooved Steel and Copper Piping Suspended From Structure								
Steel / Copper Piping	Х			Х		X		
(Low Deformability Piping Systems) Cast Iron and Nonductile Plastic Piping Systems or Any System Joined with Cast Iron Fittings								
Cast Iron / PVC Piping	Х			Х		X		
	HAZA	RDOUS E	QUIPMENT	& SYSTE	M COMPONENTS;	IP = 1.5		
High Deformability Piping Systems or Limited Deformability Piping Systems								
Hazardous Medical Gas Piping ≤ 2" , Supported Overhead	Х		Х				5	
Hazardous Medical Gas Piping > 2" , Supported Overhead	X			X		Х		
	OTHER	GENERAL	EQUIPME	NT & SYST	EM COMPONENTS	S; IP = 1.5		_
Floor Mounted:			V			V		
AHU Piping Suspended From Structure:		X	Х			X		
Steel / Copper / Cast Iron / PVC - hangers ≤ 12"	Х		Х				5	
(High Deformability Piping Systems) Welded, Brazed, Soldered and Flanged Steel and Copper Piping Suspended From Structure								
Steel / Copper Piping - larger than 2" Steel / Copper Piping - 2" and smaller - hangers ≤ 12"	X		Х	X		X	5	
(Limited Deformability Piping Systems) Threaded and Grooved Steel and Copper Piping								
Steel / Copper Piping - larger than 2" Steel / Copper Piping - 2" and smaller - hangers ≤ 12"	X		Х	X		Х	5	
(Low Deformability Piping Systems) Cast Iron and Nonductile Plastic Piping Systems or Any System Joined with Cast Iron Fittings								
Cast Iron / PVC Piping	Х			Х		Х		
Ductwork Suspended From Structure: Ductwork < 6 sq. ft. X-section AND ≤ 20 lb/ft AND provisions made to avoid impacts of other mechanical	X		Х				4	
components Ductwork > 6 sq. ft. X-section OR > 20 lb/ft OR	X			X		X		
ductwork could be impacted by other components Equipment Supported By A Suspended Ceiling:								
Air Devices < 20 lbs	Х			X		X		1
Equipment Suspended From Structure: Air Devices ≥ 20 lbs, < 56 lbs	X			X		X		1,2
Air Devices ≥ 56 lbs	Х			Х		X		1,3
In-line components	X			X		X		
FCU, VAV, FTU Duct Mounted Reheat Coils/Control Dampers	X			X		X		
Return Fans	Х			X		X		
Preheat Coil Pump	X		Х					
In-line components > 75 lbs Wall mounted equipment:	Х			X		X		
Fire dampers, louvers		Х				X		

* applies to equipment and devices directly attached to structure

Sheet	Discipline	System	Area(s) Affected	Shutdown Location	Outage Time Of Day	Estimated Outage Duration	Description
MD309, M309	Mechanical	Chilled Water	Areas served by AHU-3,4,5,& 6	PT9001 MECH PENTHOUSE	Off Hours - OAT shall be 50°F or below for duration of outage.	6 hours	remp shutdown for tie-in of piping relocated to accommodate new ductwork. New piping shall be shalled prior to shutdown to limit duration.
MD309, M309	Mechanical	Heating Water	Areas served by AHU-3,4,5,& 6	PT9001 MECH PENTHOUSE	Off Hours - OAT shall be 40°F or above for duration of outage.	6 hours	Temp shutdown for tie-in of piping relocated to accommodate new ductwork. New piping shall be installed prior to shutdown to limit duration.
MD309, M309	Mechanical	Steam	Areas served by AHU-3,4,5,& 6	PT9001 MECH PENTHOUSE	Off Hours - OAT shall be 40°F or above for duration of outage.	6 hours	Temp shutdown for tie-in of piping relocated to accommodate new ductwork. New piping shall be installed prior to shutdown to limit duration.
MD108, M108	Mechanical	Medical Gas	8th floor PCT ZV-801, ZV-802, ZV-804, ZV-805	PT8240 WKST-TEAM	Normal Hours	6 hours	Temp shutdown for medical gas reconnection to new zone valve box ZV-805. New valve box shall be installed and piped to above ceiling prior to shutdown to minimize duration.
MD108, M108	Mechanical	Medical Gas	ZV-805	PT8262 EQUIP	Normal Hours	24 hours	remp shutdown for relocation of med gas piping to accommodate new ductwork within patient ooms. Occurs downstream of ZV-805.
MD208, M208	Plumbing	Plumbing	8th floor PCT	PTC8101	Off Hours - Between 10 PM and 4 AM	4-8 hours each	ntermittent shutdowns of hot water and cold water for relocation of piping throughout work area to accommodate new ductwork
MD208, M208	Plumbing	Plumbing	8th floor PCT	PTC8101	Off Hours - Between 10 PM and 4 AM	4-8 hours	Temp shutdown of hot water and cold water for relocation of piping mains to accommodate new ductwork in corridor.
MD308, M308	Mechanical	HVAC - AHU-5	Areas served by AHU-5	PT9001 MECH PENTHOUSE	Off Hours	8 hours	Temp shutdown to connect supply and return flex ducts to serve phase 2 areas and to connect new RA duct main into existing RA duct main on 8th floor. New RA main serving areas south of scope area shall be installed prior to shutdown to minimize duration.
MD308, M309	Mechanical	Heating Water	8th floor PCT	TC8202B Corridor	Off Hours - OAT shall be 40°F or above for duration of outage.	-	During HW shutdown, install service valves on HW piping to each patient room to prevent system HW shutdowns with each patient room VAV relocation scope.
M808, M809	Mechanical	Fire Protection	8th floor and Penthouse PCT	PTS8002 STAIR 2 and PT9001 MECH PENTHOUSE	Normal Hours	6 hours	Temp shutdown for relocation of fire protection piping to accommodate new ductwork.
E309	Electrical	Emergency Equipment Branch Power	Panels AEDP-3, EMCC-1, AE9A, E9P1, E9P1A	PT9001 MECH PENTHOUSE	Off Hours - Thursday nights 10PM to 4 AM	8 hours	hut down panel AEDP-3 to terminate new panel loads serving AHU-51.
							V

1. THIS MATRIX IS INTENDED TO CONVEY MAJOR SYSTEM SHUTDOWNS AFFECTING MULTIPLE AREAS OF THE CAMPUS. THIS MATRIX DOES NOT INDICATE ALL SHUTDOWNS OR PHASING REQUIRED AS PART OF PROJECT SCOPE.

3. DURING BIDDING CONTRACTOR SHALL REVIEW PROPOSED SHUTDOWN DURATIONS AND ALERT OWNER AND ARCHITECT/ENGINEER OF POTENTIAL CONCERNS. 4. CONTRACTOR SHALL ACCOUNT FOR COMMISSIONING OF NEW SWITCH BOARDS IF THE TIE DIFFERENTIAL REQUIRES BOTH BOARDS TO BE DOWN AT THE SAME TIME

5. EACH NDP SHALL HAVE A TIE BREAKER CREATING A MAIN-TIE-MAIN SETUP.

GENERAL NOTES:

A. It is the basic intent of this Code Block to declare whether or not anchorage and sway bracing is being provided on the project. If so, to declare whether or not the details are shown on the plans or will be shown on a subsequent submission. If seismic restraint of a component is not required by code this should be stated in comments. If seismic restraint, which is not required by code, is being provided due to owner/designer requirements this should also be stated in the comments.

B. Plans signed and sealed by a Professional Engineer along with a separate permit application need to be submitted to the AHJ a minimum of two weeks prior to the planned installation to allow for plan review and distribution to the inspector. Additional time may be needed if such submissions are deficient. C. All anchors and attachments to structure shall be seismically rated and listed.

COMMENTS/NOTES:

- 1. Shall be positively attached to the ceiling grid using four approved attachment devices.
- 2. Shall have two No. 12 gauge wires connecting opposite corners of the air device to the structure above.

3. Shall be independently supported from the structure above by approved hangers.

SEISMIC DESIGN REQ	JIREMENT EXEMPTIONS FOR MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS										
	1) Seismic Design Category A, B.										
1 - General Exemptions (ASCE 07-16 Chap 13.1.4)	2) Seismic Design Category C and the component importance factor IP = 1.0 provided that EITHER 1)The component is positively attached to the structure, or 2) The component weights 20 lbs. or less, or 5 lbs./ft or less for distributed systems.										
1 - General Exemptions (ASCE 07-10 Chap 13.1.4)	3) Seismic Design Category D, E, or F that are positively attached to the structure and EITHER: 1) The component weights 400 lbs. or less, the center of mass is located 4 ft or less above the adjacent floor, flexible connections are provided between the component and associated ductwork, piping, and conduit, and the component IP = 1.0, OR 2) The component weights 20 lbs. or less, or 5 lbs./ft or less for distributed systems.										
	1) Not connected to ducts or piping, supported by chains or otherwise suspended from the structure, provided ALL of the following criteria A. through C. below are met:										
2 - Light Fixture, Sign and Ceiling Fan Exemptions (ASCE 07-16 Chap 13.6.1)	A. The design load for such items shall be equal to 1.4 times the operating weight acting down with a simultaneous horizontal load equal to times the operating weight. The horizontal load shall be applied in the direction that results in the most critical loading for design.										
	B. Seismic interaction effects shall be considered per Section 13.2.3 of ASCE 7-16. C. The connection to the structure shall allow a 360 degree range of motion in the horizontal plane.										
	1) Raceways with IP = 1.0 where flexible connections or other assemblies are provided between the cable tray or raceway and associated components to accommodate the relative displacement, where the cable tray or raceway is positively attached to the structure, and where ONE of items A. through D. below apply:										
	A. Trapeze assemblies with 3/8 in. diameter rod hangers not exceeding 12 in. length and the total weight supported by any single trapeze is 100 lbs. or less.										
3 - Distribution Systems: Conduit, Cable Tray, and Raceways Exemptions (ASCE 07-16 Chap 13.6.5.1)	B. Trapeze assemblies with 1/2 in. diameter rod hangers not exceeding 12 in. in length and the total weight supported by any single trapeze is 200 lbs. or less.										
	C. Trapeze assemblies with 1/2 in. diameter rod hangers not exceeding 24 in. in length and the total weight supported by any single trapeze is 100 lbs. or less.										
	D. Individual rod hangers 3/8 in. or 1/2 in. diameter and each hanger is 12 in. or less in length and the total weight per any single rod is 50 lbs. or less.										
	2) Conduit less than 2.5 in. trade size.										
	Ducts not part of hazardous exhaust systems or fire protection systems such as smoke control or evacuation systems when EITHER 1) or 2) below apply:										
	1) IP = 1.0 where flexible connections or other assembles are provided to accommodate the relative displacement between the duct system and associated components, the duct system is positively attached to the structure, and where ONE of items A. through D. below apply:										
	A. Trapeze assemblies with 3/8 in. diameter rod hangers not exceeding 12 in. length and the total weight supported by any single trapeze is less than 10 lbs./ft										
	B. Trapeze assemblies with 1/2 in. diameter rod hangers not exceeding 12 in. in length and the total weight supported by any single trapeze is 200 lbs. or less.										
4 - Duct System Exemptions (ASCE 07-16 Chap 13.6.6)	C. Trapeze assemblies with 1/2 in. diameter rod hangers not exceeding 24 in. in length and the total weight supported by any single trapeze is 100 lbs. or less.										
	D. Individual rod hangers 3/8 in. or 1/2 in. diameter and each hanger is 12 in. or less in length and the total weight per any single rod is 50 lbs. or less.										
	2) Locations where provisions are made to avoid impact with other ducts or mechanical components or to protect the ducts in the event of such impact, the distribution system is positively attached to the structure, and HVACR ducts have a cross-sectional area of less that 6 sq. ft and weight 20 lbs./ft or less.										
	3) Components installed in line with duct systems with an operating weight of 75 lbs. or less (terminal units, dampers, louvers, and diffusers) that are independently braced or positively attached to the ductwork with mechanical fasteners on both sides.										
	Piping systems where flexible connections, expansion loops, or other assemblies are provided to accommodate the relative displacement between component and piping, where the piping system is positively attached to the structure and where ONE of items 1 through 7 below apply:										
	1) Trapeze assemblies are used to support piping whereby no single pipe exceeds the limits set forth in 5A, 5B, or 5C. below and the total weight of the piping supported by the trapeze assemblies is less that 10 lbs./ft										
	2) Trapeze assemblies with 3/8 in. diameter rod hangers not exceeding 12 in. length, do not support piping with IP > 1.0, and no single pipe exceeds the limits set forth in 5A, 5B, or 5C below, and the total weight supported by any single trapeze is 100 lbs. or less.										
	3) Trapeze assemblies with 1/2 in. diameter rod hangers not exceeding 12 in. length, do not support piping with IP > 1.0, and no single pipe exceeds the limits set forth in 5A, 5B, or 5C below, and the total weight supported by any single trapeze is 200 lbs. or less.										
5 - Piping and Tubing Distribution Systems (not including fire protection systems installed per NFPA 13) (ASCE 07-16 Chap 13.6.7.3)	4) Trapeze assemblies with 1/2 in. diameter rod hangers not exceeding 24 in. length, do not support piping with IP > 1.0, and no single pipe exceeds the limits set forth in 5A, 5B, or 5C below, and the total weight supported by any single trapeze is 100 lbs. or less.										
	5) Piping that has an RP in ASCE 7-16 Table 13.6-1 of 4.5 or greater is either supported by rod hangers and provisions are made to avoid impact with other structural or non-structural components or to protect piping in the event of such impact, or pipes with IP = 1.0 are supported by individual rod hangers 3/8 in. or 1/2 in. in diameter; where each hanger is 12 in. or less and the total weight supported by any single hanger is 50 lbs. or less. Pipe size limitations in items 5A, 5B, and 5C below apply:										
	5A) Seismic Design Category C where IP > 1.0 nominal pipe size shall be 2 in. or less 5B) Seismic Design Category D, E, or F where IP > 1.0 nominal pipe size shall be 1 in. or less 5C) Seismic Design Category D, E, or F where IP = 1.0 nominal pipe size shall be 3 in. or less										
	6) Pneumatic tube systems supported with trapeze assemblies using 3/8 in. diameter rod hangers not exceeding 12 in. and the total weight supported by any single trapeze is 100 lbs. or less.										
	7) Pneumatic tube systems supported with trapeze assemblies using 3/8 in. or 1/2 in. diameter rod hangers not exceeding 12 in. and the total weight supported by any single rod is 50 lbs. or less.										

1. Flexible connections are not required for connections to appliances or electrical or plumbing fixtures that are mounted to walls or floors. 2. Distribution systems would include the following code complying components:

- a. The following sanitary, drain, waste and vent pipe: Schedule 40 PVC, 6" or less in diameter; Schedule 80 PVC, 4" or less in diameter; service weight and no hub cast iron, 2" or less in diameter. b. The following storm drain pipe: Schedule 40 and 80 PVC, 3" or less in diameter; service weight and no hub cast iron, not applicable. c. The following water pipe: Type L & M copper, 2-1/2" or less in diameter; Schedule 40 and 80 CPVC, 3" or less in diameter.
- d. The following electrical conduit: Rigid steel and intermediate metal conduit (IMC), 1-1/2" and less in diameter; EMT conduit and rigid aluminum conduit 2" and less in diameter.
- e. Flexible electrical wiring methods weighing 5 lbs./ft or less.



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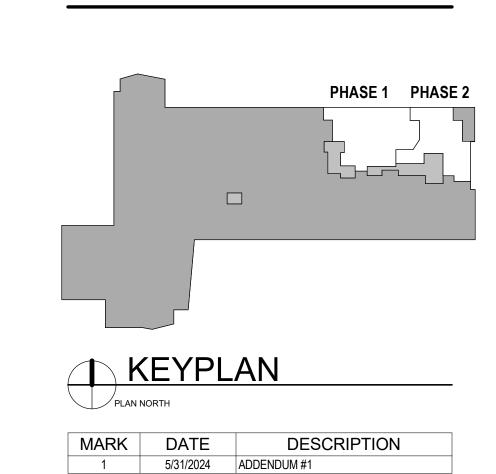


MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF

BID SET



ERIC A. REUTHER

SEISMIC CODE BLOCK SCHEDULE

MCCLURE PROJECT NO.

SHUTDOWN/SEQUENCING NOTES: 1. NEW ZONE VALVE BOX AND PIPING SHALL BE INSTALLED PRIOR TO DEMOLITION OF EXISTING ZONE VALVE BOX.

REFER TO M108. COORDINATE MVB INSTALLATION WITH DOOR DEMOLITION SUCH THAT ACCESS TO THE ROOM IS

COORDINATION DRAWINGS: DETAILED COORDINATION DRAWINGS ARE REQUIRED, 1 SET FOR THE PENTHOUSE SCOPE AND 1 SET FOR THE 8TH FLOOR SCOPE. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.

MECHANICAL KEYED NOTES:

DEMOLISH EXISTING ZONE VALVE BOX. REFER TO M108 FOR NEW VALVE BOX LOCATION. DEMOLISH MEDICAL GAS PIPING ABOVE CEILING AND

DROPS IN AREA SHOWN. 3 REWORK MEDICAL GAS PIPING ABOVE CEILING TO ACCOMMODATE NEW HVAC SCOPE.

MECHANICAL GENERAL NOTES:

1. THESE DRAWINGS WERE PREPARED UTILIZING EXISTING DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING WORK. NOTIFY CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES.

2. CONTRACTOR SHALL TAKE EXTREME CARE HANDLING MATERIAL DEBRIS IN AN EFFORT TO AVOID ANY DISRUPTIONS OF ONGOING BUILDING OPERATIONS. PROJECT SHALL BE CLEANED FREE OF DUST AND DEBRIS AT THE END OF THE WORK DAY.

3. CONTRACTOR SHALL COORDINATE ANY SHUTDOWN OF UTILITIES WITH THE OWNER'S REPRESENTATIVE. NOTICE FOR SHUTDOWN SHALL BE GIVEN TO THE OWNER AT LEAST THREE DAYS

4. CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES PRIOR TO BEGINNING

5. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR FIELD COORDINATION AND DIMENSIONAL VERIFICATION AS SPECIFIED IN THE PROJECT MANUAL.

6. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS AND ALL LOCAL CODES.

7. ALL WORK SHALL BE INSTALLED TO ALLOW 24" CLEAR ACCESS PATHWAY TO VAV CONTROL PANELS. 8. REFER TO ARCHITECTURAL SHEETS FOR PHASING CONSTRUCTION BOUNDARIES.

9. VAV CONTROLLERS AND THEMOSTATS SHALL BE REMOVED BY OWNER PRIOR TO DEMOLITION WORK. NOTIFY OWNER PRIOR TO START OF DEMOLITION.

10. PIPING IN MECHANICAL ROOM SHALL HAVE COLOR CODED PVC JACKETING. REFER TO SPECIFICATION SECTION 20 25 14 FOR ADDITIONAL INFORMATION.

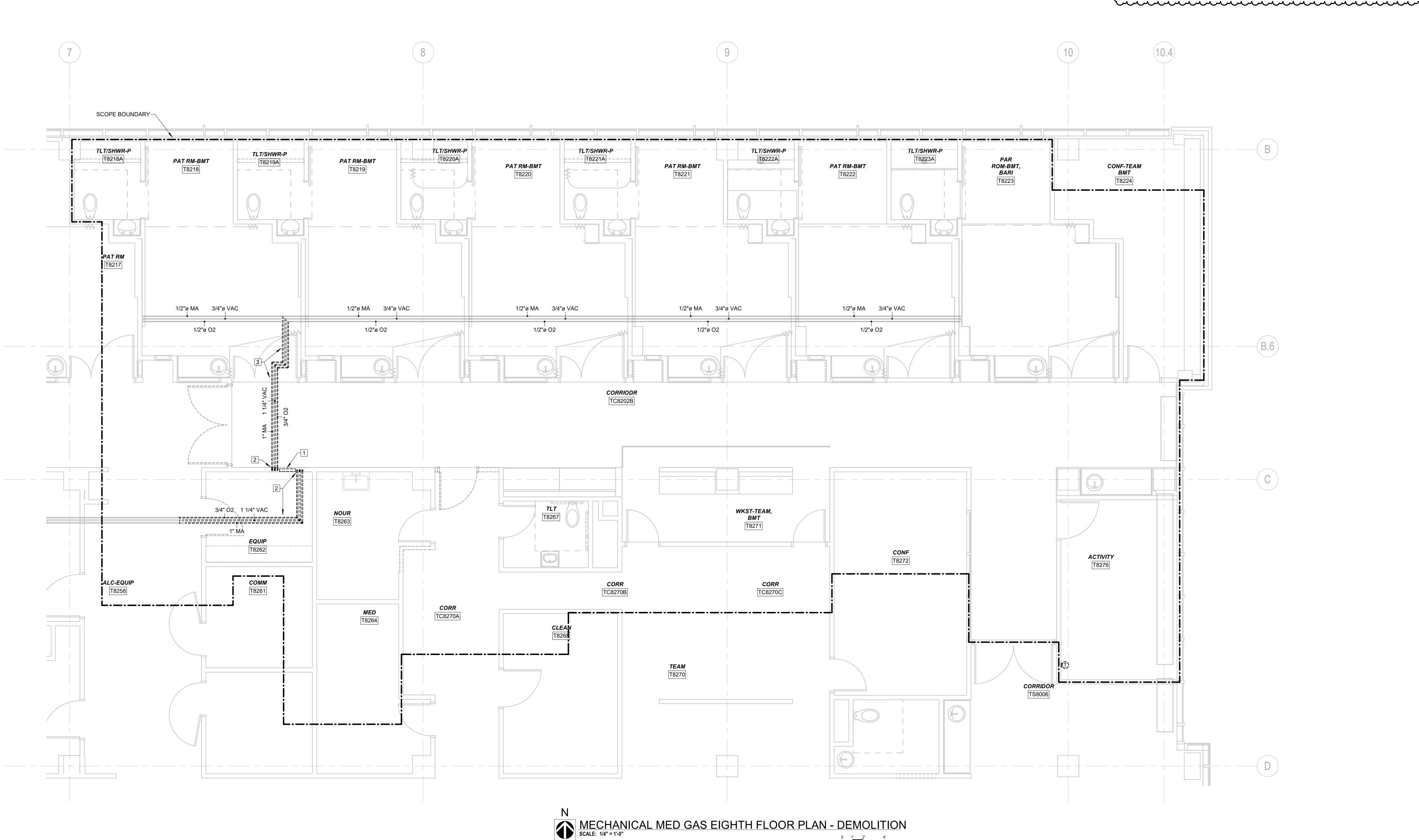
11. NEW AND EXISTING WALL PENETRATIONS IN PATIENT ROOMS SHALL BE SEALED TO MAINTAIN MINIMUM 0.01 IN. W.C. POSITIVE PRESSURE RELATIVE TO THE CORRIDOR. BLOWER DOOR TESTING REQUIRED PRIOR TO CEILING INSTALLATION, REFER TO SPECIFICATIONS.

12. CONTRACTOR SHALL COORDINATE PENETRATIONS WITH UL FIRESTOP DETAIL WHERE REQUIRED.

REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. 13. CONTRACTOR SHALL ENSURE FC BUS REMAINS INTACT THROUGHOUT CONSTRUCTION.

14. ALL EXISTING AND NEW DUCTWORK SHALL BE SEALED WHILE NOT BEING CONNECTED TO OR ACTIVELY INSTALLED. EXISTING DUCTWORK SHALL BE CLEANED AND ALL DUCTWORK SHALL MAINTAIN CLEANLINESS THROUGHOUT CONSTRUCTION. CLEANLINESS THROUGHOUT CONSTRUCTION. 15. ALL EXISTING DEVICES TO REMAIN IN PLACE SHALL BE COVERED AND SEALED THROUGHOUT

CONSTRUCTION TO BE PROTECTED FROM DEBRIS AND DIRT. 16. ALL EXISTING DEVICES TO BE REMOVED AND REINSTALLED SHALL BE STORED SAFELY AND PROTECTED THROUGHOUT CONSTRUCTION. DEVICES SHALL BE CLEANED PRIOR TO REINSTALLATION.



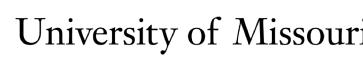
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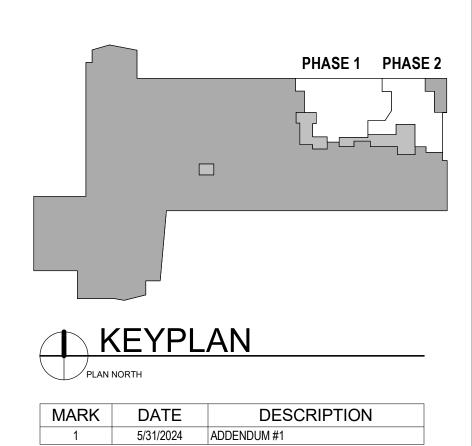


MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



ERIC A. REUTHER PE-2011015792

EIGHTH FLOOR MED GAS PLAN - DEMOLITION

MCCLURE PROJECT NO.

MD108

COORDINATION DRAWINGS: DETAILED COORDINATION DRAWINGS ARE REQUIRED, 1 SET FOR THE PENTHOUSE SCOPE

AND INFORMATION.

AND 1 SET FOR THE 8TH FLOOR SCOPE. REFER

TO SPECIFICATIONS FOR ADDITIONAL DETAIL

PLUMBING KEYED NOTES: 1 DEMOLISH TRENCH DRAIN AND EXISTING TRAP FROM SHOWER. PREPARE WASTE PIPE FOR NEW SHOWER DRAIN.

SEE NEW WORK. 2 DEMOLISH PORTION OF 4" VENT LINE TO ACCOMMODATE NEW DUCTWORK. COORDINATE WITH MECHANICAL

CONTRACTOR. SEE NEW WORK. 3 REMOVE EXISTING DOMESTIC WATER PIPING TO ALLOW

FOR DUCTWORK MODIFICATIONS. COORDINATE WITH MECHANICAL CONTRACTOR. SEE NEW WORK.

4 DEMOLISH EXISTING SHOWER WAND FROM SHOWERS. 5 DEMOLISH EXISTING FAUCET AND HANDLES FROM

LAVATORIES. 6 DEMOLISH EXISTING FILTERS AND PREPARE FOR NEW

7 REMOVE EXISTING WATER CLOSET AND STORE SAFELY FOR REINSTALLATION.

PIPING TO RECONNECT. SEE NEW WORK.

PLUMBING GENERAL NOTES:

1. FURNISH AND INSTALL SUPPLY STOP SHUT-OFF VALVES ON ALL FIXTURE WATER SUPPLY LINES. FURNISH AND INSTALL WATER HAMMER ARRESTORS PER PDI WH201 AND AS INDICATED ON DRAWINGS, INSTALL VALVES IN ACCESSIBLE LOCATIONS. IF LOCATION IS NOT READILY ACCESSIBLE, COORDINATE ACCESS PANEL REQUIREMENTS WITH GENERAL CONTRACTOR.

2. ALL PIPING SHALL BE CONCEALED IN CHASE, WALL, CEILING, FLOORING, ETC. UNLESS OTHERWISE NOTED. PIPING SHOWN OUTSIDE OF WALL FOR CLARITY ONLY.

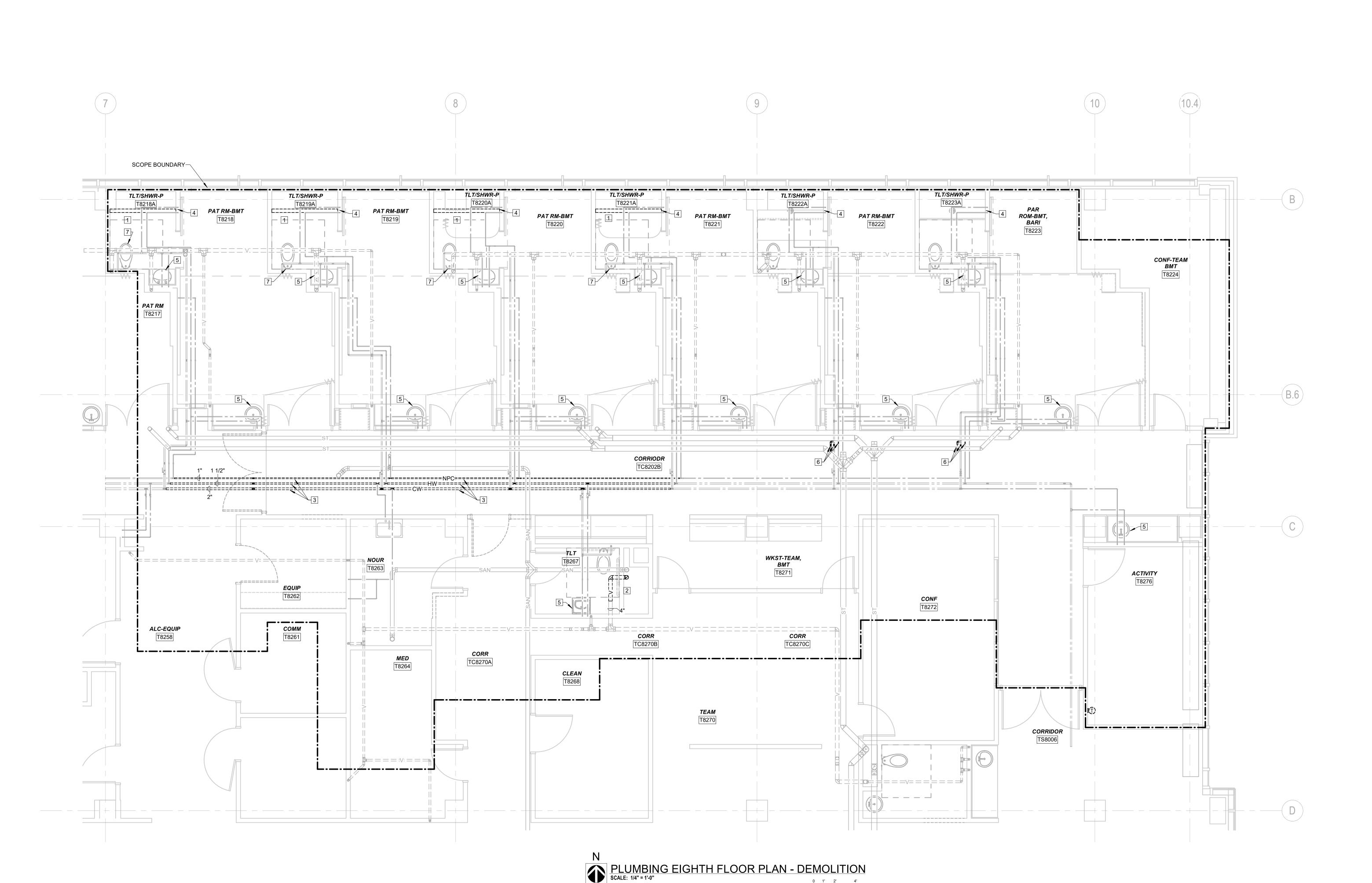
3. EQUIPMENT AND FIXTURE SYMBOLOGY ON PLANS MAY NOT REFLECT ACTUAL TYPE. REFER TO SPECIFICATIONS AND SCHEDULES FOR FIXTURE OR EQUIPMENT TYPE.

4. LOCATIONS OF FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. INDICATED ON THESE DRAWINGS ARE CONSIDERED APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF FINAL AND EXACT LOCATIONS WITH ALL OTHER TRADES AND EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION. DRAINS, ETC. NOT CORRECTLY LOCATED AS DETERMINED BY THE ARCHITECT/ENGINEER/OWNER, SHALL BE REMOVED AND RELOCATED AT THIS CONTRACTOR'S EXPENSE.

5. NEW AND EXISTING WALL PENETRATIONS IN PATIENT ROOMS SHALL BE SEALED TO MAINTAIN MINIMUM 0.01 IN. W.C. POSITIVE PRESSURE RELATIVE TO THE CORRIDOR.

6. CONTRACTOR SHALL COORDINATE PENETRATIONS WITH UL FIRESTOP DETAIL WHERE REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. \mathcal{A} , 7. ALL EXISTING DEVICES TO REMAIN IN PLACE SHALL BE COVERED AND SEALED THROUGHOUT CONSTRUCTION TO BE PROTECTED FROM DEBRIS AND DIRT.

8. ALL EXISTING DEVICES TO BE REMOVED AND REINSTALLED SHALL BE STORED SAFELY AND PROTECTED THROUGHOUT CONSTRUCTION. DEVICES SHALL BE CLEANED PRIOR TO



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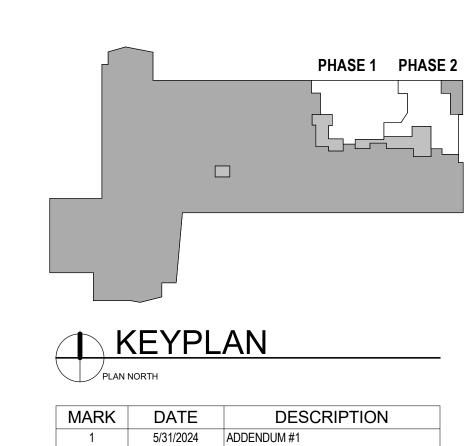


MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

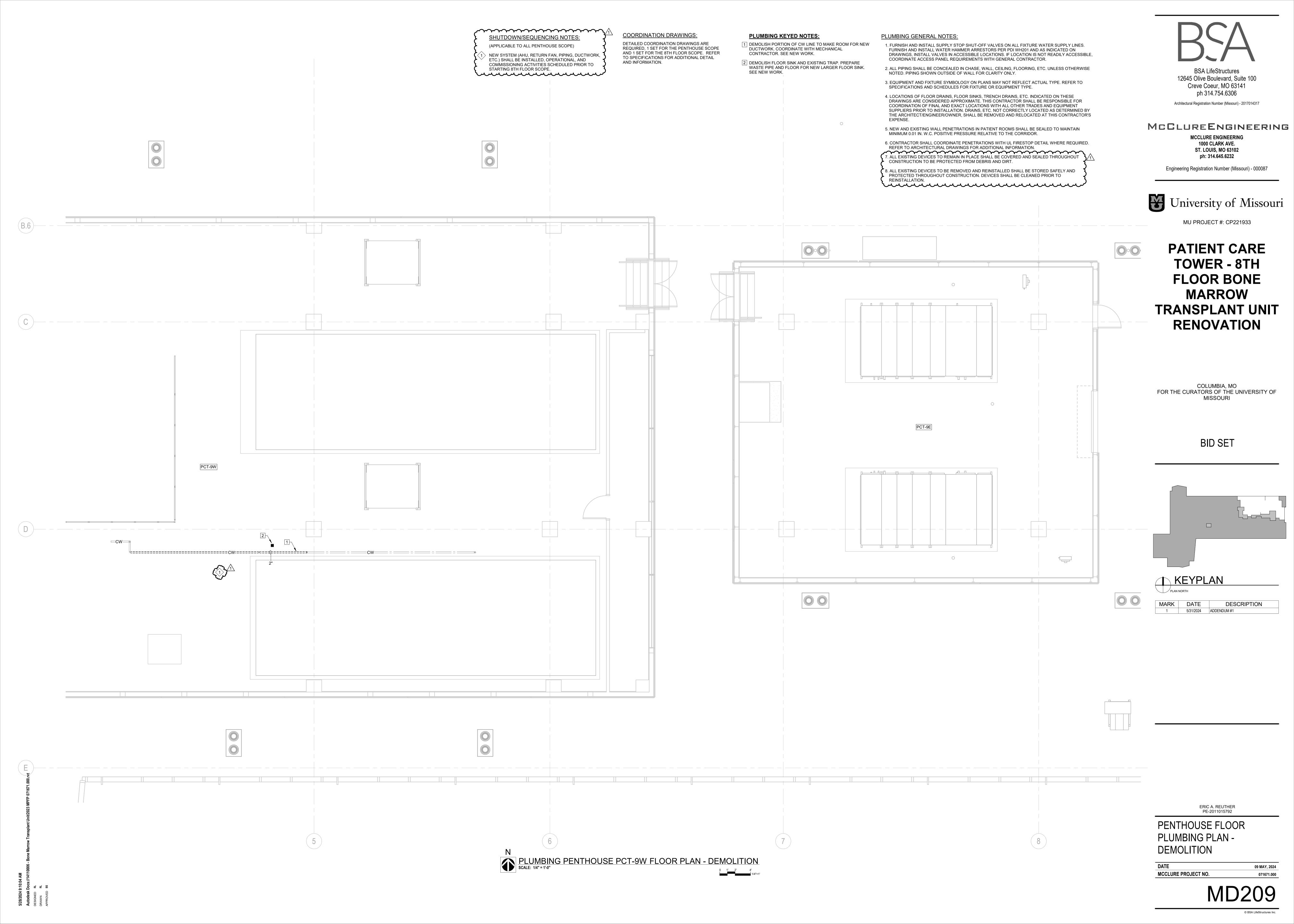
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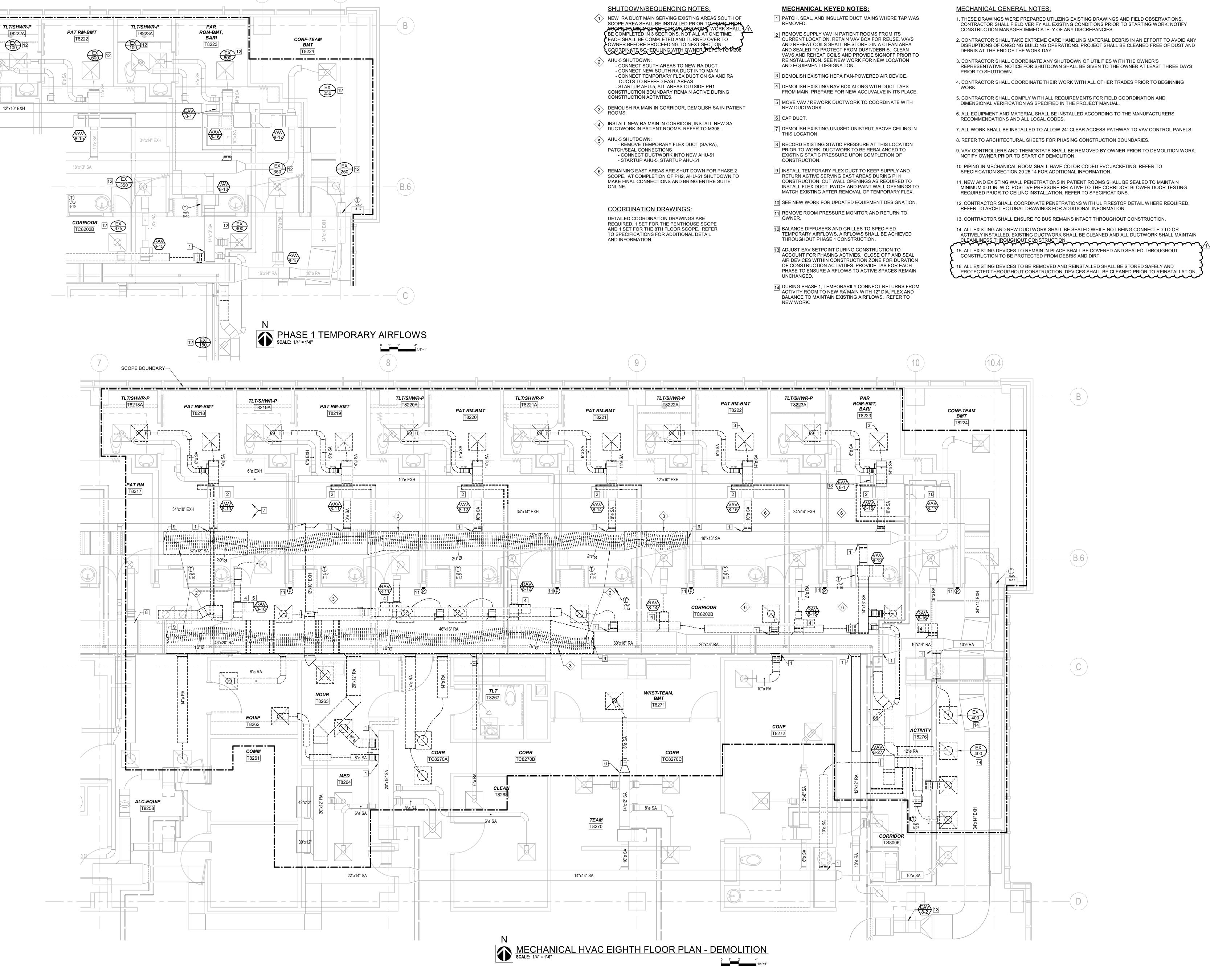


ERIC A. REUTHER PE-2011015792

EIGHTH FLOOR PLUMBING PLAN - DEMOLITION

MCCLURE PROJECT NO.





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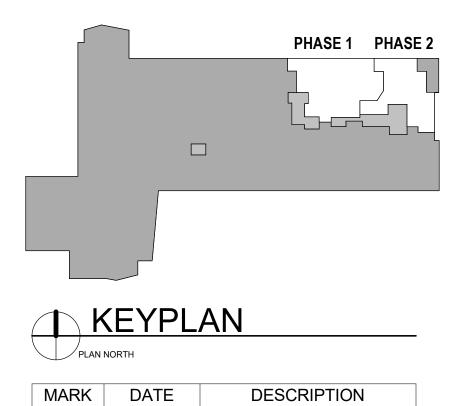
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MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET

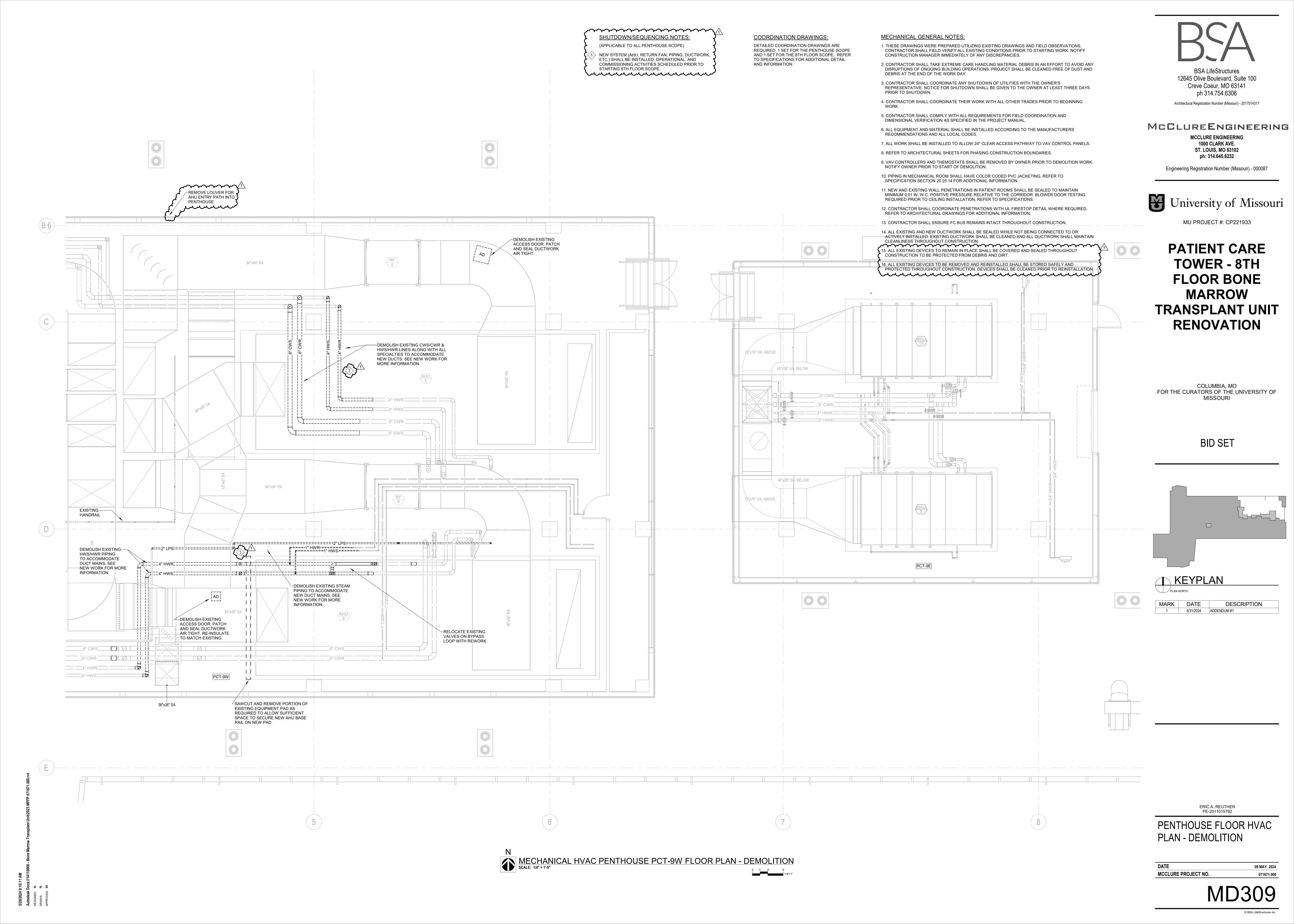


1 5/31/2024 ADDENDUM #1

ERIC A. REUTHER

EIGHTH FLOOR HVAC PLAN - DEMOLITION

MCCLURE PROJECT NO.



SHUTDOWN/PHASING NOTES:

1. NEW ZONE VALVE BOX AND PIPING SHALL BE INSTALLED TO ABOVE CEILING PRIOR TO MEDICAL GAS SHUTDOWN TO MINIMIZE DURATION. COORDINATE MVB INSTALLATION WITH DOOR DEMOLITION SUCH THAT ACCESS TO THE ROOM IS

REMOVED. BOX SHALL BE ACCESSIBLE FROM WEST SIDE OF WALL. 3 REWORK MEDICAL GAS PIPING ABOVE CEILING TO

ACCOMMODATE NEW HVAC SCOPE.

COORDINATION DRAWINGS:

DETAILED COORDINATION DRAWINGS ARE REQUIRED, 1 SET FOR THE PENTHOUSE SCOPE AND 1 SET FOR THE 8TH FLOOR SCOPE. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.

MECHANICAL KEYED NOTES:

EXISTING AREA ALARM TO REMAIN. 1. THESE DRAWINGS WERE PREPARED UTILIZING EXISTING DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING WORK. NOTIFY 2 INSTALL NEW ZONE VALVE BOX IN WALL WHERE DOOR WAS CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES.

MECHANICAL GENERAL NOTES:

2. CONTRACTOR SHALL TAKE EXTREME CARE HANDLING MATERIAL DEBRIS IN AN EFFORT TO AVOID ANY DISRUPTIONS OF ONGOING BUILDING OPERATIONS. PROJECT SHALL BE CLEANED FREE OF DUST AND DEBRIS AT THE END OF THE WORK DAY.

3. CONTRACTOR SHALL COORDINATE ANY SHUTDOWN OF UTILITIES WITH THE OWNER'S

4. CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES PRIOR TO BEGINNING

6. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS

RECOMMENDATIONS AND ALL LOCAL CODES. 7. ALL WORK SHALL BE INSTALLED TO ALLOW 24" CLEAR ACCESS PATHWAY TO VAV CONTROL PANELS.

9. VAV CONTROLLERS AND THEMOSTATS SHALL BE REMOVED BY OWNER PRIOR TO DEMOLITION WORK. NOTIFY OWNER PRIOR TO START OF DEMOLITION.

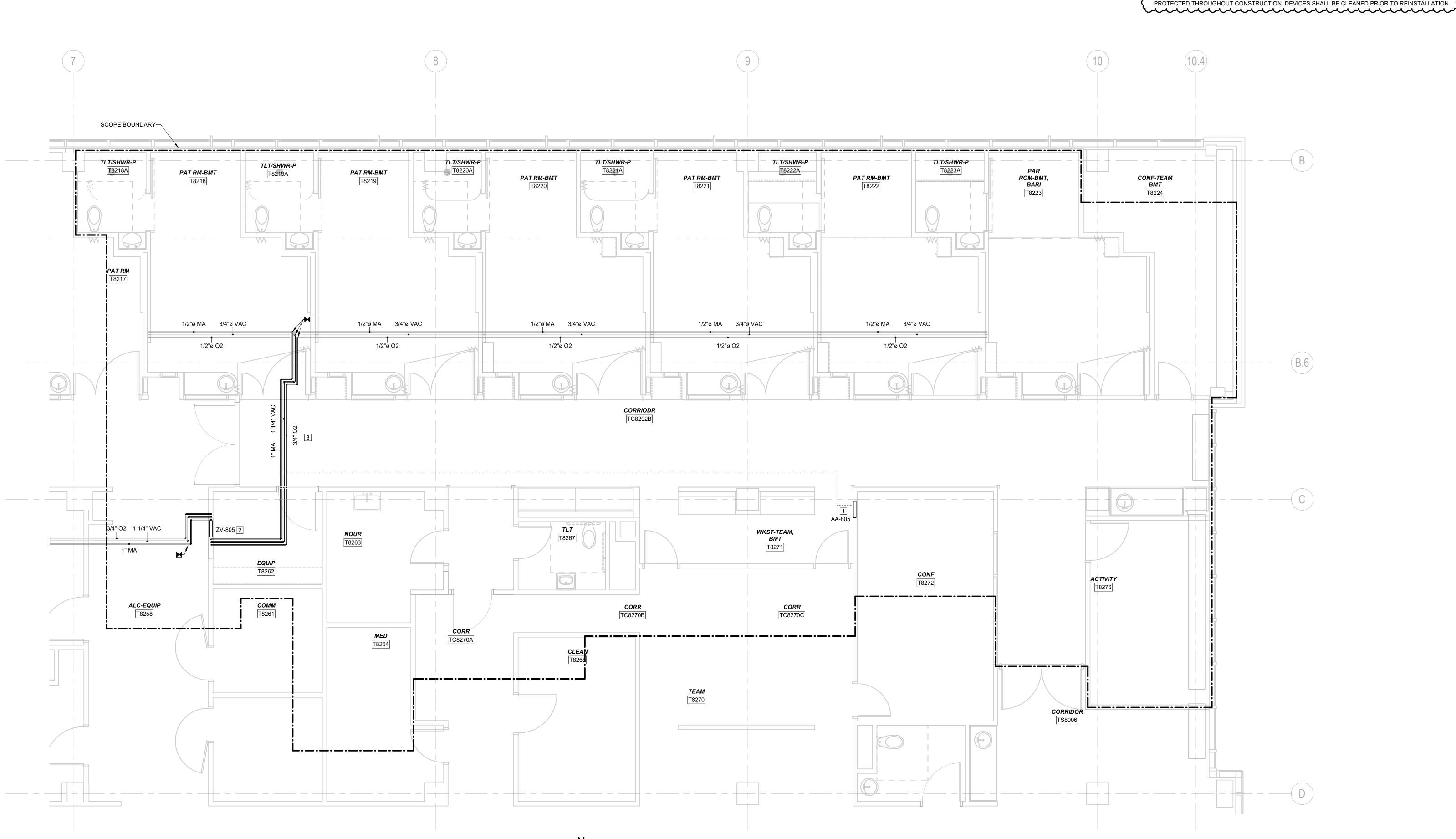
10. PIPING IN MECHANICAL ROOM SHALL HAVE COLOR CODED PVC JACKETING. REFER TO

11. NEW AND EXISTING WALL PENETRATIONS IN PATIENT ROOMS SHALL BE SEALED TO MAINTAIN MINIMUM 0.01 IN. W.C. POSITIVE PRESSURE RELATIVE TO THE CORRIDOR. BLOWER DOOR TESTING

12. CONTRACTOR SHALL COORDINATE PENETRATIONS WITH UL FIRESTOP DETAIL WHERE REQUIRED.

14. ALL EXISTING AND NEW DUCTWORK SHALL BE SEALED WHILE NOT BEING CONNECTED TO OR

15. ALL EXISTING DEVICES TO REMAIN IN PLACE SHALL BE COVERED AND SEALED THROUGHOUT CONSTRUCTION TO BE PROTECTED FROM DEBRIS AND DIRT. 16. ALL EXISTING DEVICES TO BE REMOVED AND REINSTALLED SHALL BE STORED SAFELY AND



MECHANICAL MED GAS EIGHT FLOOR PLAN - NEW WORK
SCALE: 1/4" = 1'-0"

REPRESENTATIVE. NOTICE FOR SHUTDOWN SHALL BE GIVEN TO THE OWNER AT LEAST THREE DAYS

5. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR FIELD COORDINATION AND

DIMENSIONAL VERIFICATION AS SPECIFIED IN THE PROJECT MANUAL.

8. REFER TO ARCHITECTURAL SHEETS FOR PHASING CONSTRUCTION BOUNDARIES.

SPECIFICATION SECTION 20 25 14 FOR ADDITIONAL INFORMATION.

REQUIRED PRIOR TO CEILING INSTALLATION, REFER TO SPECIFICATIONS.

REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

13. CONTRACTOR SHALL ENSURE FC BUS REMAINS INTACT THROUGHOUT CONSTRUCTION.

ACTIVELY INSTALLED. EXISTING DUCTWORK SHALL BE CLEANED AND ALL DUCTWORK SHALL MAINTAIN CLEANLINESS THROUGHOUT CONSTRUCTION.

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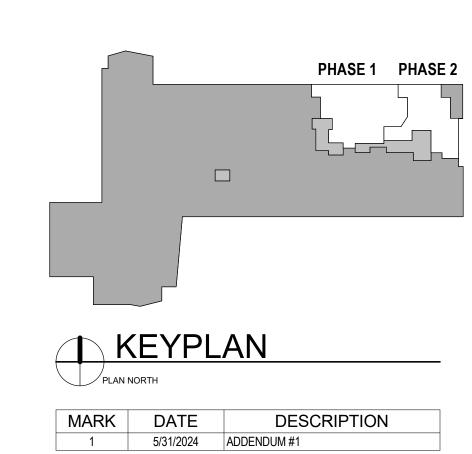
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MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



ERIC A. REUTHER PE-2011015792

EIGHTH FLOOR MED GAS PLAN - NEW WORK

MCCLURE PROJECT NO.

COORDINATION DRAWINGS:

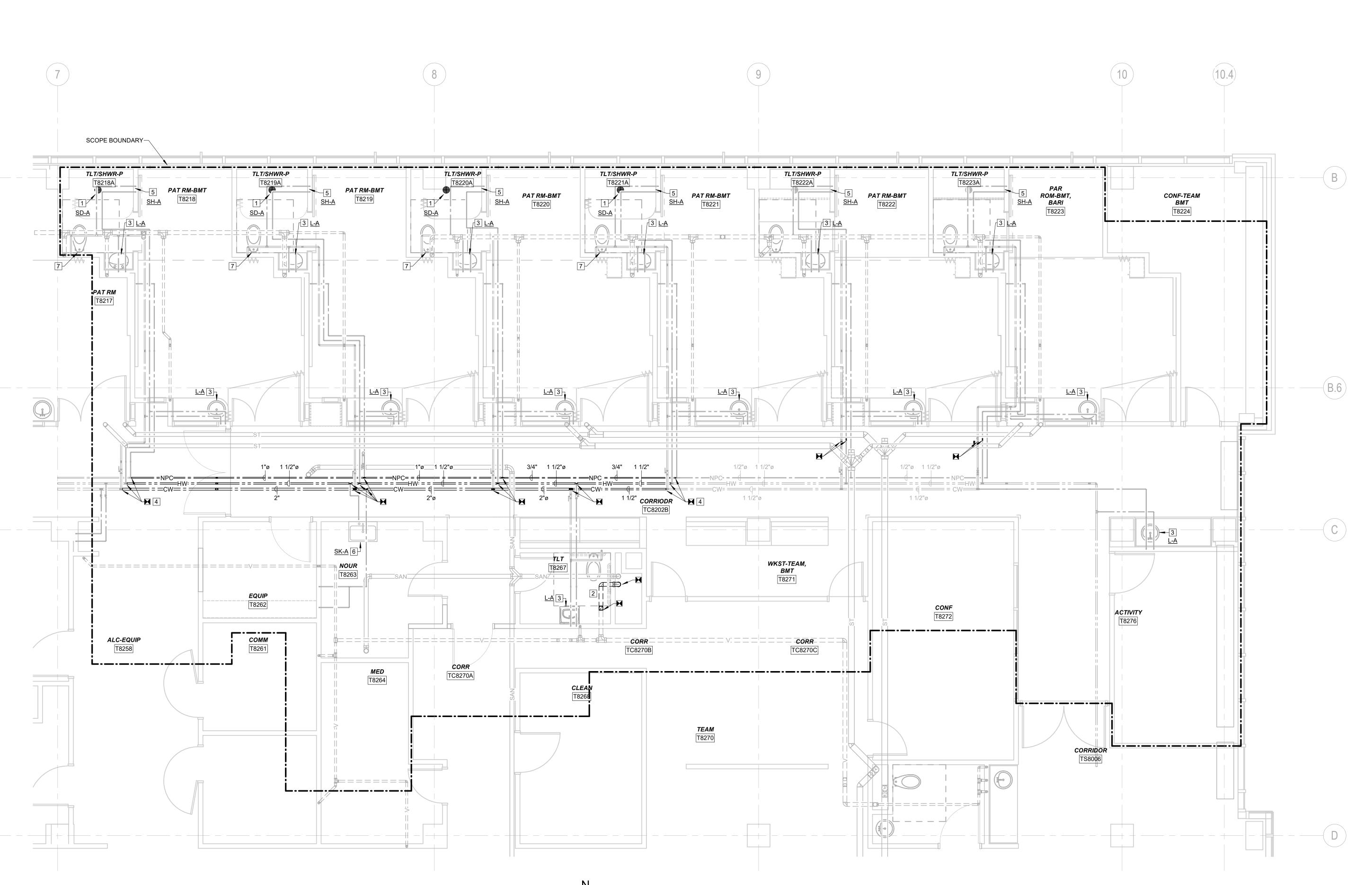
DETAILED COORDINATION DRAWINGS ARE REQUIRED, 1 SET FOR THE PENTHOUSE SCOPE AND 1 SET FOR THE 8TH FLOOR SCOPE. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.

PLUMBING KEYED NOTES:

- 1 PROVIDE AND INSTALL NEW SHOWER DRAIN IN EACH SHOWER AS SHOWN. REWORK WASTE PIPING TO ACCOMODATE NEW SHOWER DRAIN AND TRAP.
- 2 REWORK ABOVE CEILING 4" VENT LINE TO NEW LOWER ELEVATION TO ALLOW FOR NEW DUCTWORK. COORDINATE WITH MECHANICAL CONTRACTOR.
- 3 PROVIDE AND INSTALL NEW FAUCET WITH LOCAL DOMESTIC WATER FILTRATION.
- 4 INSTALL DOMESTIC WATER PIPING IN NEW LOCATION TO ALLOW FOR INSTALLATION OF NEW DUCTWORK. COORDINATE ROUTING, HANGERS, AND INSTALLATION SEQUENCE WITH MECHANICAL CONTRACTOR.
- 5 PROVIDE AND INSTALL NEW SHOWER WAND WITH LOCAL DOMESTIC WATER FILTRATION.
- 6 PROVIDE AND INSTALL LOCAL DOMESTIC WATER FILTER ON SINK TRIM.
- 7 REINSTALL EXISTING WATER CLOSET.

- PLUMBING GENERAL NOTES:
 - 1. FURNISH AND INSTALL SUPPLY STOP SHUT-OFF VALVES ON ALL FIXTURE WATER SUPPLY LINES. FURNISH AND INSTALL WATER HAMMER ARRESTORS PER PDI WH201 AND AS INDICATED ON DRAWINGS, INSTALL VALVES IN ACCESSIBLE LOCATIONS. IF LOCATION IS NOT READILY ACCESSIBLE, COORDINATE ACCESS PANEL REQUIREMENTS WITH GENERAL CONTRACTOR.
 - 2. ALL PIPING SHALL BE CONCEALED IN CHASE, WALL, CEILING, FLOORING, ETC. UNLESS OTHERWISE NOTED. PIPING SHOWN OUTSIDE OF WALL FOR CLARITY ONLY.
 - 3. EQUIPMENT AND FIXTURE SYMBOLOGY ON PLANS MAY NOT REFLECT ACTUAL TYPE. REFER TO SPECIFICATIONS AND SCHEDULES FOR FIXTURE OR EQUIPMENT TYPE.
 - 4. LOCATIONS OF FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. INDICATED ON THESE DRAWINGS ARE CONSIDERED APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF FINAL AND EXACT LOCATIONS WITH ALL OTHER TRADES AND EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION. DRAINS, ETC. NOT CORRECTLY LOCATED AS DETERMINED BY THE ARCHITECT/ENGINEER/OWNER, SHALL BE REMOVED AND RELOCATED AT THIS CONTRACTOR'S EXPENSE.
 - 5. NEW AND EXISTING WALL PENETRATIONS IN PATIENT ROOMS SHALL BE SEALED TO MAINTAIN MINIMUM 0.01 IN. W.C. POSITIVE PRESSURE RELATIVE TO THE CORRIDOR.
 - 6. CONTRACTOR SHALL COORDINATE PENETRATIONS WITH UL FIRESTOP DETAIL WHERE REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. λ 7. ALL EXISTING DEVICES TO REMAIN IN PLACE SHALL BE COVERED AND SEALED THROUGHOUT • CONSTRUCTION TO BE PROTECTED FROM DEBRIS AND DIRT.
 - 8. ALL EXISTING DEVICES TO BE REMOVED AND REINSTALLED SHALL BE STORED SAFELY AND PROTECTED THROUGHOUT CONSTRUCTION. DEVICES SHALL BE CLEANED PRIOR TO

REINSTALLATION.



PLUMBING EIGHTH FLOOR PLAN - NEW WORK

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

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MU PROJECT #: CP221933

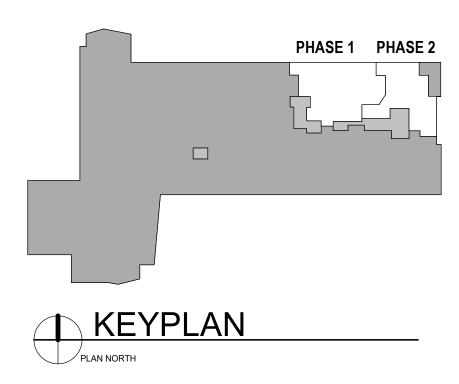
PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW**

TRANSPLANT UNIT

RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



DESCRIPTION

MARK DATE

1 5/31/2024 ADDENDUM #1

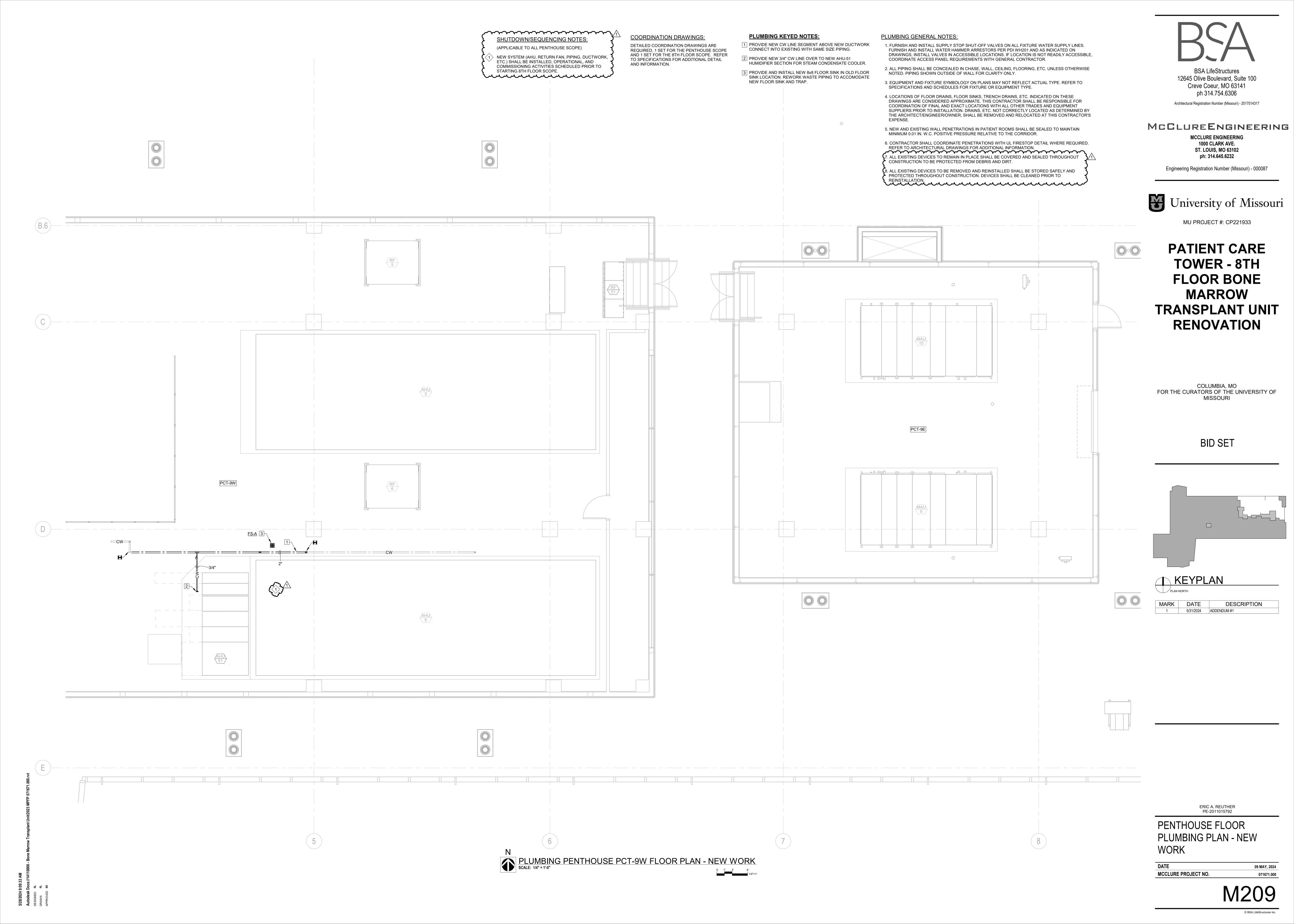
ERIC A. REUTHER PE-2011015792

EIGHTH FLOOR PLUMBING PLAN - NEW WORK

MCCLURE PROJECT NO.

09 MAY, 2024

M208



SHUTDOWN/SEQUENCING NOTES: 1 NEW RA DUCT MAIN SERVING EXISTING AREAS SOUTH OF SCOPE AREA SHALL BE INSTALLED PRIOR TO DEMOLITION BE COMPLETED IN 3 SECTIONS, NOT ALL AT ONE TIME. * EACH SHALL BE COMPLETED AND TURNED OVER TO 🚶 OWNER BEFORE PROCEEDING TO NEXT SECTION. COORDINATE SCHEDULING WITH OWNER. WILL SOME DULING WITH OWNER.

2 AHU-5 SHUTDOWN: - CONNECT SOUTH AREAS TO NEW RA DUCT - CONNECT NEW SOUTH RA DUCT INTO MAIN - CONNECT TEMPORARY FLEX DUCT ON SA AND RA DUCTS TO REFEED EAST AREAS - STARTUP AHU-5, ALL AREAS OUTSIDE PH1 CONSTRUCTION BOUNDARY REMAIN ACTIVE DURING CONSTRUCTION ACTIVITIES.

 $\langle 3 \rangle$ DEMOLISH RA MAIN IN CORRIDOR, DEMOLISH SA IN PATIENT

4 NSTALL NEW RA MAIN IN CORRIDOR, INSTALL NEW SA DUCTWORK IN PATIENT ROOMS.

(5) AHU-5 SHUTDOWN: - REMOVE TEMPORARY FLEX DUCT (SA/RA), PATCH/SEAL CONNECTIONS - CONNECT DUCTWORK INTO NEW AHU-51 - STARTUP AHU-5, STARTUP AHU-51

 $\langle 6
angle$ REMAINING EAST AREAS ARE SHUT DOWN FOR PHASE 2 SCOPE. AT COMPLETION OF PH2, AHU-51 SHUTDOWN TO MAKE FINAL CONNECTIONS AND BRING ENTIRE SUITE

COORDINATION DRAWINGS:

DETAILED COORDINATION DRAWINGS ARE REQUIRED, 1 SET FOR THE PENTHOUSE SCOPE AND 1 SET FOR THE 8TH FLOOR SCOPE. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.

TLT/SHWR-P

T8222A

18"x16" RA

CORR TC8270C

MECHANICAL KEYED NOTES:

1 CAPPED DUCT PROVIDED FOR FUTURE DISTRIBUTION. 2 ROUTE NEW RETURN DUCT TO REFEED ROOMS OUTSIDE

BONE MARROW TRANSPLANT SUITE BOUNDARY. S SPACE TO BE SERVED BY NEW BMT AHU. REWORK DUCTWORK TO CONNECT TO NEW RETURN VAV FOR

RETURN CONTROL AND SUITE PRESSURIZATION CONTROL.

4 SPACE TO BE SERVED BY NEW BMT AHU. REWORK DUCTWORK TO CONNECT TO SUPPLY VAV.

5 INSTALL EXISTING SUPPLY VAV IN ITS NEW LOCATION AND INSTALL NEW SUPPLY AIR DEVICE OVER BED. CLEAN VAVS AND REHEAT COILS AND PROVIDE SIGNOFF PRIOR TO REINSTALLATION.

6 INSTALL NEW PRESSURE MONITORING DEVICE FOR PATIENT ROOM. POSITIVE PRESSURE 0.01" W.C. SHALL BE MAINTAINED WITHIN EACH PATIENT ROOM. FC BUS SHALL BE REROUTED WITHOUT SPLICES.

7 REPLACE EXISTING RAV WITH NEW ACCUVALVE.

8 MOVE VAV / REWORK DUCTWORK TO COORDINATE WITH NEW DUCTWORK.

9 COORDINATE NEW DUCTWORK IN ROOM WITH EXISTING UNISTRUT TO ALLOW FUTURE PATIENT LIFT IN ROOM.

PROVIDE NEW MANUAL BALANCE DAMPER AND SET TO MAINTAIN PRESSURE RECORDED PRIOR TO CONSTRUCTION.

11 ALTERNATE #1: ROUTE NEW BRANCH 1/2" HEATING WATER PIPING TO EACH RADIANT CEILING PANEL. 12 INSTALL SERVICE VALVES DURING HW SHUTDOWN TO

PREVENT SYSTEM HW SHUTDOWNS WITH EACH PATIENT ROOM VAV RELOCATION.

13 INSTALL BUILDING PRESSURE SENSOR FOR BMT SUITE. REFERENCE ADJACENT CORRIDOR PRESSURE.

14 BALANCE EXISTING EAVS AS NOTED IN VARIABLE AIR VOLUME UNIT SCHEDULE.

TLT/SHWR-P

T8223A

18"x13" SA

ROM-BMT, BARI

10"ø RA

15 DURING PHASE 1, TEMPORARILY CONNECT RETURNS FROM ACTIVITY ROOM TO NEW RA MAIN WITH 12" DIA. FLEX AND BALANCE TO MAINTAIN EXISTING AIRFLOWS.

MECHANICAL GENERAL NOTES:

1. THESE DRAWINGS WERE PREPARED UTILIZING EXISTING DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING WORK. NOTIFY CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES.

2. CONTRACTOR SHALL TAKE EXTREME CARE HANDLING MATERIAL DEBRIS IN AN EFFORT TO AVOID ANY DISRUPTIONS OF ONGOING BUILDING OPERATIONS. PROJECT SHALL BE CLEANED FREE OF DUST AND DEBRIS AT THE END OF THE WORK DAY.

3. CONTRACTOR SHALL COORDINATE ANY SHUTDOWN OF UTILITIES WITH THE OWNER'S REPRESENTATIVE. NOTICE FOR SHUTDOWN SHALL BE GIVEN TO THE OWNER AT LEAST THREE DAYS

PRIOR TO SHUTDOWN. 4. CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES PRIOR TO BEGINNING

5. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR FIELD COORDINATION AND DIMENSIONAL VERIFICATION AS SPECIFIED IN THE PROJECT MANUAL.

6. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS AND ALL LOCAL CODES.

7. ALL WORK SHALL BE INSTALLED TO ALLOW 24" CLEAR ACCESS PATHWAY TO VAV CONTROL PANELS. 8. REFER TO ARCHITECTURAL SHEETS FOR PHASING CONSTRUCTION BOUNDARIES. 9. VAV CONTROLLERS AND THEMOSTATS SHALL BE REMOVED BY OWNER PRIOR TO DEMOLITION WORK.

10. PIPING IN MECHANICAL ROOM SHALL HAVE COLOR CODED PVC JACKETING. REFER TO SPECIFICATION SECTION 20 25 14 FOR ADDITIONAL INFORMATION.

NOTIFY OWNER PRIOR TO START OF DEMOLITION.

CONSTRUCTION TO BE PROTECTED FROM DEBRIS AND DIRT.

(10.4)

11. NEW AND EXISTING WALL PENETRATIONS IN PATIENT ROOMS SHALL BE SEALED TO MAINTAIN MINIMUM 0.01 IN. W.C. POSITIVE PRESSURE RELATIVE TO THE CORRIDOR. BLOWER DOOR TESTING

REQUIRED PRIOR TO CEILING INSTALLATION, REFER TO SPECIFICATIONS. 12. CONTRACTOR SHALL COORDINATE PENETRATIONS WITH UL FIRESTOP DETAIL WHERE REQUIRED.

REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. 13. CONTRACTOR SHALL ENSURE FC BUS REMAINS INTACT THROUGHOUT CONSTRUCTION.

15. ALL EXISTING DEVICES TO REMAIN IN PLACE SHALL BE COVERED AND SEALED THROUGHOUT

14. ALL EXISTING AND NEW DUCTWORK SHALL BE SEALED WHILE NOT BEING CONNECTED TO OR ACTIVELY INSTALLED. EXISTING DUCTWORK SHALL BE CLEANED AND ALL DUCTWORK SHALL MAINTAIN CLEANLINESS THROUGHOUT CONSTRUCTION. A CLEANLINESS I FIROUGI LOUI CONSTITUTION.

16. ALL EXISTING DEVICES TO BE REMOVED AND REINSTALLED SHALL BE STORED SAFELY AND PROTECTED THROUGHOUT CONSTRUCTION. DEVICES SHALL BE CLEANED PRIOR TO REINSTALLATION.

BSA LifeStructures 12645 Olive Boulevard, Suite 100 Creve Coeur, MO 63141 ph 314.754.6306

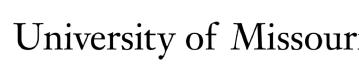
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Engineering Registration Number (Missouri) - 000087



MU PROJECT #: CP221933

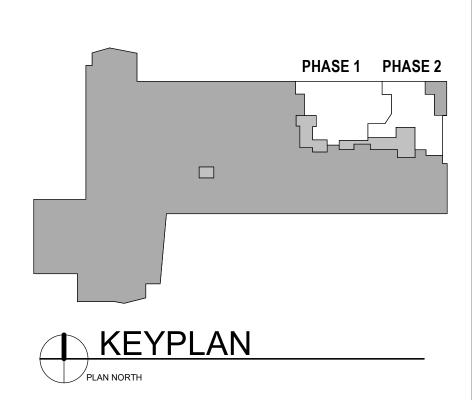
PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW**

TRANSPLANT UNIT

RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



MARK DATE

1 5/31/2024 ADDENDUM #1

DESCRIPTION

ERIC A. REUTHER

PE-2011015792 EIGHTH FLOOR HVAC PLAN - NEW WORK

MCCLURE PROJECT NO.

M308

09 MAY, 2024

MECHANICAL HVAC EIGHTH FLOOR PLAN - NEW WORK
SCALE: 1/4" = 1'-0"

26"x13" SA

TLT/SHWR-P

T8221A

TC8270B

TEAM T8270

T8268

TLT/SHWR-P

T8220A

PAT RM-BMT

34"x12" EXH

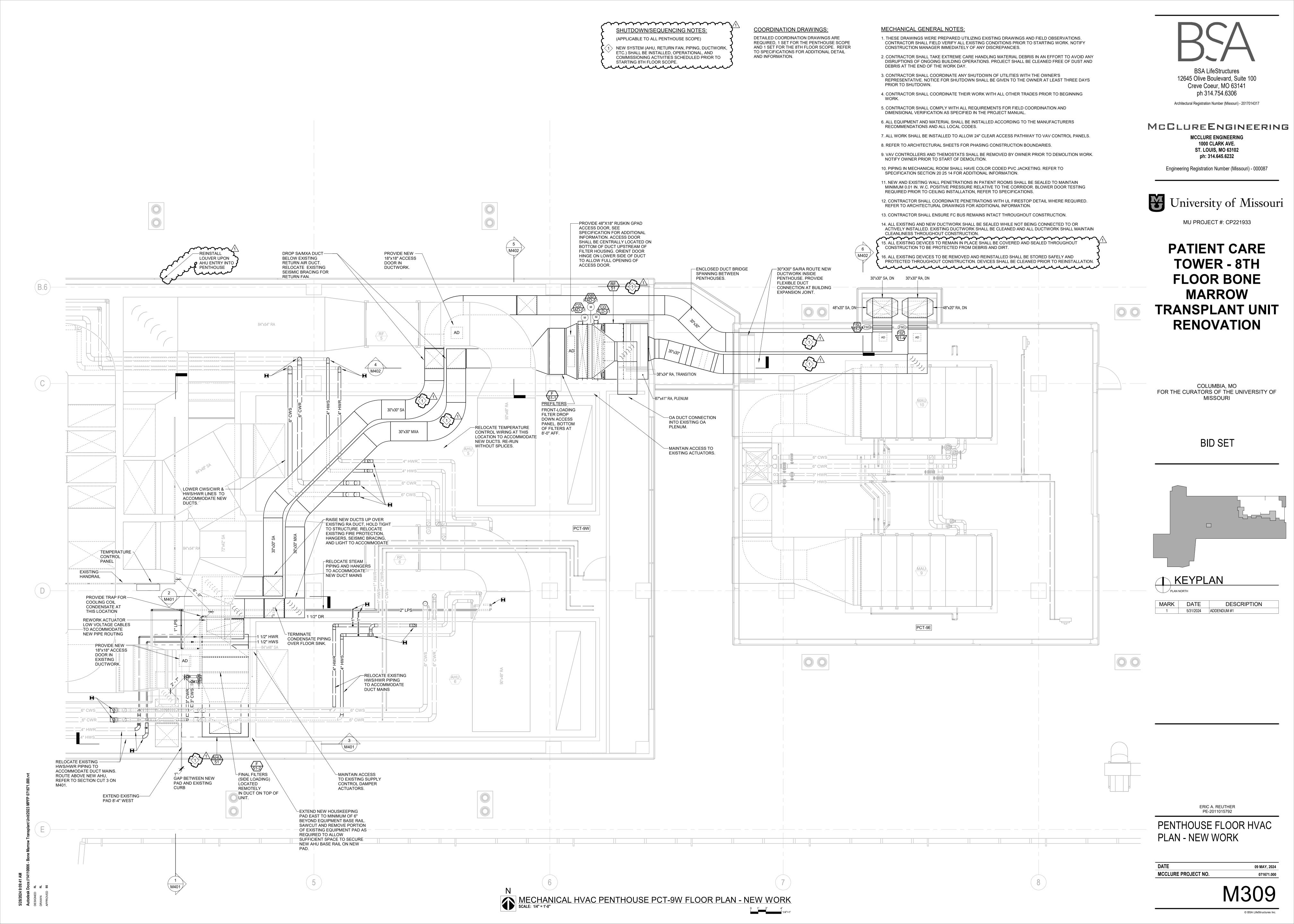
SCOPE BOUNDARY

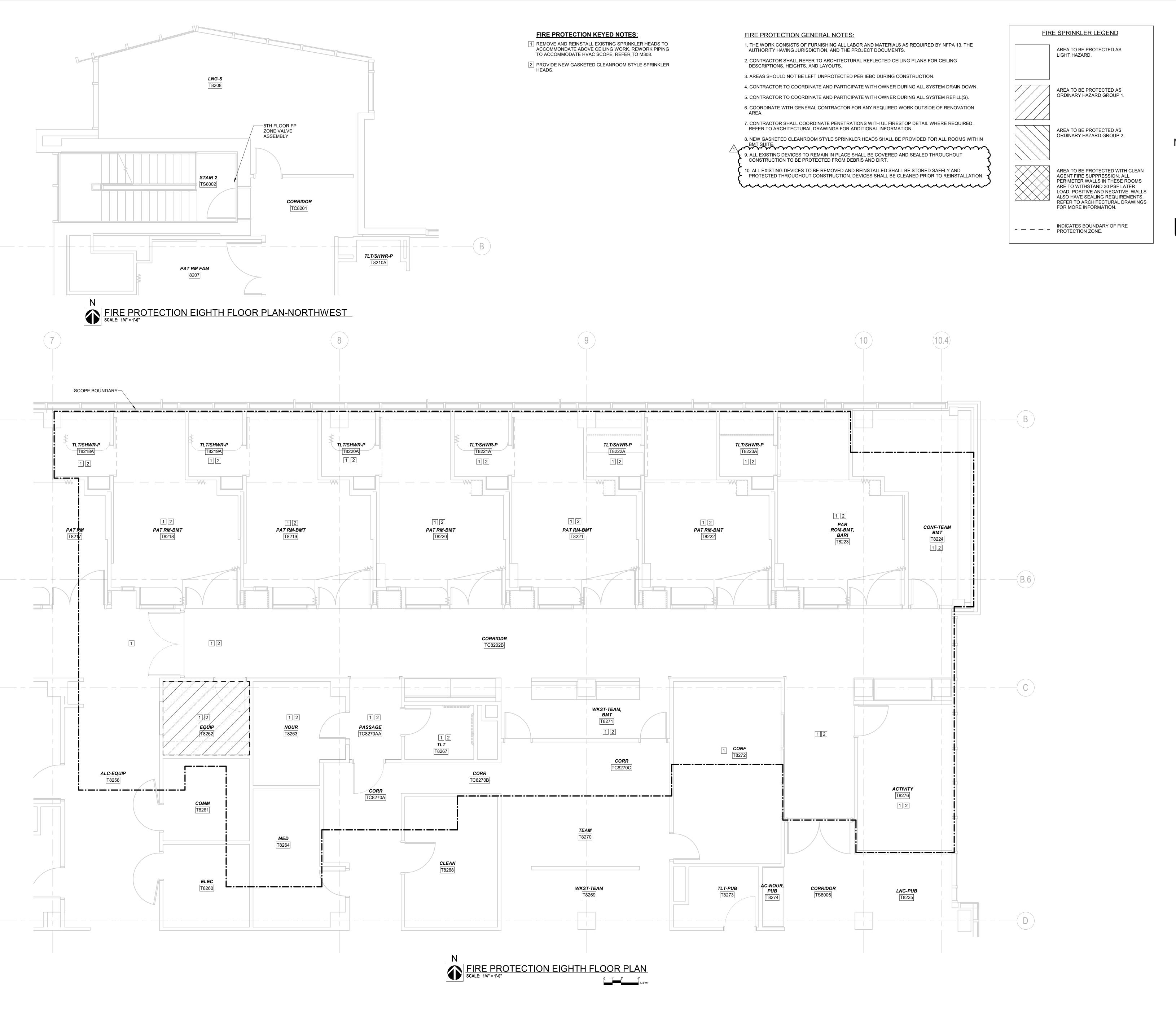
TLT/SHWR-P

T8218A

46"x20" RA

ALC-EQUIP





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McClureEngineering MCCLURE ENGINEERING 1000 CLARK AVE.

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ph: 314.645.6232

MU PROJECT #: CP221933

Engineering Registration Number (Missouri) - 000087

University of Missouri

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET

PHASE 1 PHASE 2 KEYPLAN
 MARK
 DATE
 DES

 1
 5/31/2024
 ADDENDUM #1
 DESCRIPTION

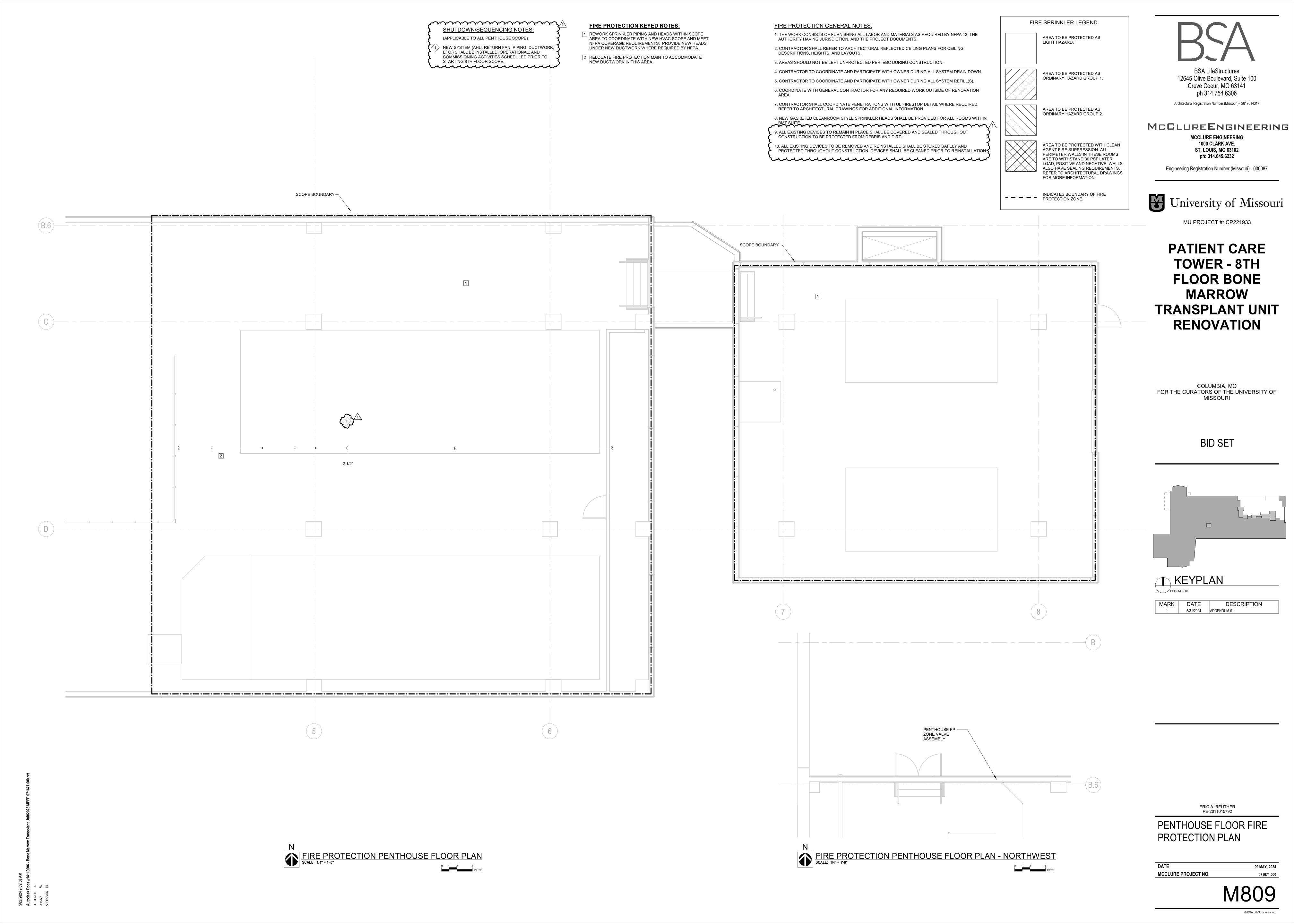
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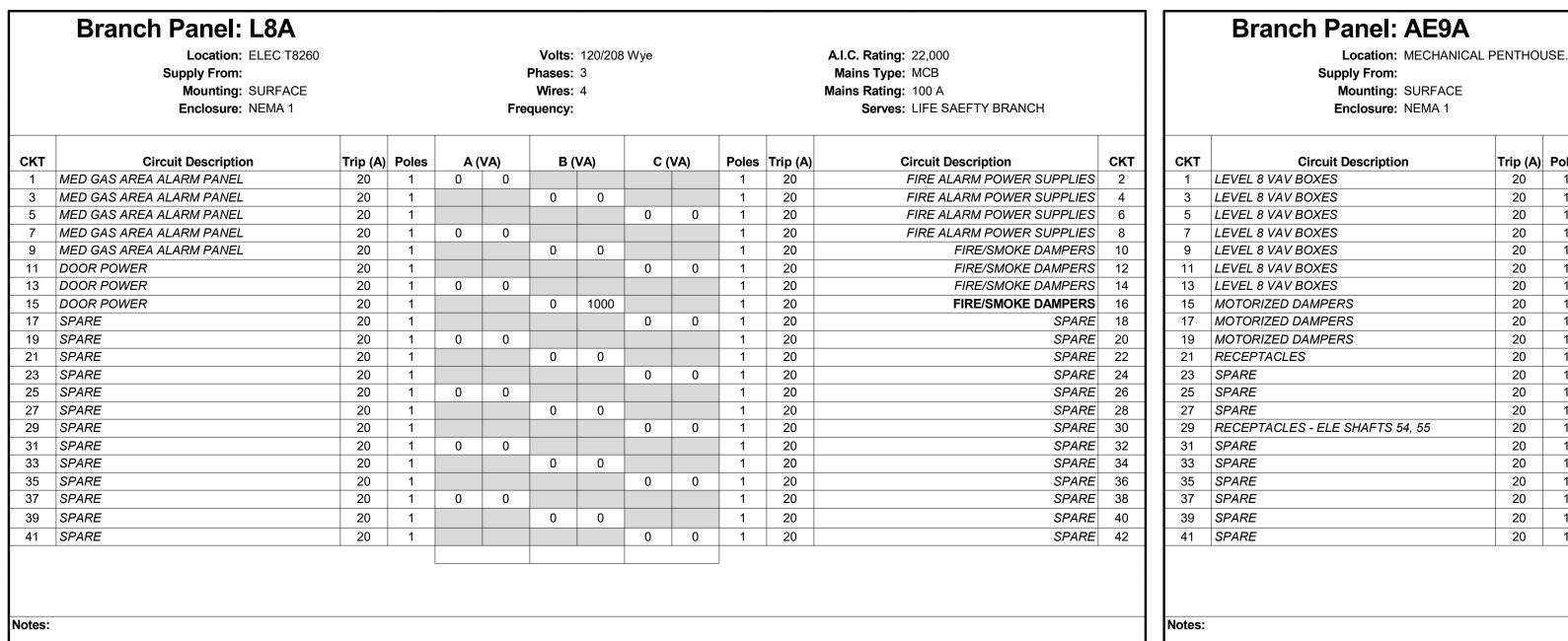
EIGHTH FLOOR FIRE PROTECTION PLAN

MCCLURE PROJECT NO.

09 MAY, 2024

M808





	Location: MECHANICA Supply From: Mounting: SURFACE Enclosure: NEMA 1	AL PENTHO	JSE			Volts: Phases: Wires: quency:	4	Wye		A.I.C. Rating: 22,000 Mains Type: MLO Mains Rating: 225 A Serves: EQUIPMENT BRANCH									
СКТ	Circuit Description	Trip (A)	Poles	Α	(VA)	В(VA)	C (VA)	Poles	Trip (A)	Circuit Description	СК						
1	LEVEL 8 VAV BOXES	20	1	0	0					1	20	MOTORIZED ROOF VENT	2						
3	LEVEL 8 VAV BOXES	20	1			0	0			1	20	MOTORIZED ROOF VENT	- 2						
5	LEVEL 8 VAV BOXES	20	1					0	0	1	20	MOTORIZED ROOF VENT	- 6						
7	LEVEL 8 VAV BOXES	20	1	0	0					1	20	MOTORIZED ROOF VENT	- 8						
9	LEVEL 8 VAV BOXES	20	1			0	0			1	20	UNIT HEATERS	1						
11	LEVEL 8 VAV BOXES	20	1					0	0	1	20	MOTORIZED DAMPERS	1						
13	LEVEL 8 VAV BOXES	20	1	0	0					1	20	MOTORIZED DAMPERS	1						
15	MOTORIZED DAMPERS	20	1			0	0			1	20	MOTORIZED DAMPERS	1						
17	MOTORIZED DAMPERS	20	1					0	0	1	20	MOTORIZED DAMPERS	1						
19	MOTORIZED DAMPERS	20	1	0	500					1	20	AHU-51 LIGHTS	2						
21	RECEPTACLES	20	1			0	500			1	20	AHU-51 UV LIGHTS	2						
23	SPARE	20	1			0-0	0-0-	0	مگ-	1	20~	2-2-2-2-2-2-2-2-51	_2^2						
25	SPARE	20	1	0 (, , ,		, , ,	1	20	SPARE	2						
27	SPARE	20	1		W.	$\mathcal{A}_{\mathcal{A}}$	Type .	\mathcal{A}	$\overline{}$	\sim	سهم	WWW.SPARE	$\overline{\smile_2}$						
29	RECEPTACLES - ELE SHAFTS 54, 55	20	1					0	0	1	20	SPARE	3						
31	SPARE	20	1	0	0					1	20	SPARE	3						
33	SPARE	20	1			0	0			1	20	SPARE	3						
35	SPARE	20	1					0	0	1	20	SPARE	3						
37	SPARE	20	1	0	0					1	20	SPARE	3						
39	SPARE	20	1			0	0			1	20	SPARE	4						
41	SPARE	20	1					0	0	1	20	SPARE	4						

Branch Panel: L9A Location: MECHANICAL PENTHOUSE Supply From: TL91 Mounting: SURFACE Enclosure: NEMA 1			Volts: 120/208 Wye Phases: 3 Wires: 4 Frequency:						Ma	.C. Rating: 22,000 ains Type: MLO ns Rating: 100 A Serves: LIFE SAEFTY BRANCH	Brand	E		Phas	bits: 480/27 ses: 3 res: 4 ncy:	77 Wye		A.I.C. Rating: Mains Type: MLO Mains Rating: 225 A Serves:						
кт	Circuit Description	Trip (A) Poles	A (\	/A)	В (VA)	C (V	/A)	Poles	Trip (A)	Circuit Description CKT	СКТ	Circuit Description	Trip (A)	Poles	A (VA)		B (VA)	C	VA)	Poles	Trip (A)	Circuit Description	СКТ
1 SPARE		20 1	0	0				-	1	20	ELEVATOR CAB 2	1				0	0						-	2
3 SPARE		20 1			0	0			1	20	ELEVATOR CAB 4	3 VFD - AHU-51	(SUPPLY)	20	3		C	0 0			3	20	VFD - AHU-51 (SUPPLY)	, 4
5 SPARE		20 1					0	0	1	20	ELEVATOR CAB 6	5							0	0				6
7 FIRE/S	MOKE DAMPERS	20 1	0	0					1	20	ELEVATOR CAB 8	7				0	0							8
9 FIRE/S	MOKE DAMPERS	20 1			0	0			1	20	ELEVATOR CAB 10	9 VFD - AHU-51	(SUPPLY)	20	3		C	0 0			3	20	VFD - AHU-51 (SUPPLY)	10
11 FIRE/S	MOKE DAMPERS	20 1					1000	0	1	20	ELEVATOR CAB 12	11							0	0				12
13 SPARE		20 1	0	0					1	20	FIRE ALARM POWER SUPPLIES 14	13 SPARE		20	1	0	0				1	20	SPARE	14
5 SPARE		20 1			0	0			1	20	FIRE ALARM POWER SUPPLIES 16	15 SPARE		20	1		C	0 0			1	20	SPARE	16
7 SPARE		20 1					0	0	1	20	SPARE 18	17 SPARE		20	1				0	0	1	20	SPARE	18
9 SPARE		20 1	0	0					1	20	SPARE 20	19 SPARE		20	1	0	0				1	20	SPARE	. 20
21 SPARE		20 1			0	0			1	20	SPARE 22	21 SPARE		20	1		C	0 0			1	20	SPARE	. 22
3 SPARE		20 1					0	0	1	20	SPARE 24	23 SPARE		20	1				0	0	1	20	SPARE	. 24
SPARE		20 1	0	0					1	20	SPARE 26	25 SPARE		20	1	0	0				1	20	SPARE	. 26
7 SPARE		20 1			0	0			1	20	SPARE 28	27 SPARE		20	1		C	0 0			1	20	SPARE	. 28
9 SPARE		20 1					0	0	1	20	SPARE 30	29 SPARE		20	1				0	0	1	20	SPARE	30
31 SPARE		20 1	0	0					1	20	SPARE 32	31 SPARE		20	1	0	0				1	20	SPARE	32
3 SPARE		20 1			0	0			1	20	SPARE 34	33 SPARE		20	1		C	0 0			1	20	SPARE	. 34
5 SPARE		20 1					0	0	1	20	SPARE 36	35 SPARE		20	1				0	0	1	20	SPARE	. 36
37 SPARE		20 1	0	0					1	20	SPARE 38	37 SPARE		20	1	0	0				1	20	SPARE	38
9 SPARE		20 1			0	0			1	20	SPARE 40	39 SPARE		20	1		C	0 0			1	20	SPARE	40
11 SPARE		20 1					0	0	1	20	SPARE 42	41 SPARE		20	1				0	0	1	20	SPARE	42
tes:		20 1					0	0	1	20	SPARE 42	Notes:		20	1				0	0	1	20	SPARE	

	C. Rating:	Volts : 480/277 Wye	9C① ANICAL PENTHOUSE	Branch Panel: AES			TAGE IMPACT)JECT (PROPOSED PRO	PRO
	nins Type: MLO ns Rating: 225 A	Phases: 3	ACE	Supply From: AEDP- Mounting: SURFA	Comments		DADS AFFECTED DURING OUTAGE	PANELS A		DESCRIPTION
	Serves:	Frequency:	1	Enclosure: NEMA		E9P1A	AE9A E9P1	EMCC-	AEDP-3	TAGE MBER
	Circuit Description CKT	(VA) B (VA) C (VA) Poles Trip (A)	Trip (A) Poles A (CKT Circuit Description		208/120V	208/120V EMERICANOV 480/277V	EF 1	EMCC-1	REPLACE EXISTING PLUG IN 100A BREAKER WITH 60A SENSOR
	. 2 VFD - AHU-51 (RETURN) 4	0 0 3 20	20 3	1 3 VFD - AHU-51 (RETURN)		EMERGENCY BRANCH	PRANCH EMERGENCY	EF 2 EF 8	T-E91(AE9A) FEEDER AHU3	1 REPLACE EXISTING PLUG IN 250A BREAKER WITH 60A SENSOR TERMINATE CONDUCTORS FOR NEW AHU 51 SUPPLY FANS PANEL FEEDER
	6	0 0		5 VID-AIIO-31 (IXETOIXIV)		CIRCUITS	CIRCUITS BRANCH CIRCUITS	EF 13	FEEDER AHU4	TERMINATE CONDUCTORS FOR NEW AHU 51 RETURN FANS PANEL FEEDER
	SPARE 8 SPARE 10	0 1 20 1 20	20 3	9 VFD - AHU-51 (RETURN)			TE9P1A(E9P1A)	CRP 3	AHU5 AHU6	
	SPARE 12 SPARE 14	0 0 1 20 0 1 20	20 1 0	11 13 SPARE				CRP 5	RF 3	
	SPARE 16	0 0 1 20	20 1	15 SPARE				CRP 6	RF 4	
	SPARE 18 SPARE 20		20 1 20 1 0	17 SPARE 19 SPARE					RF 6	
	SPARE 22 SPARE 24	0 0 1 20	20 1 20 1	21 SPARE 23 SPARE					SPF 1 SPF 2	
MARK DATE DESCRI	SPARE 26 SPARE 28	0 1 20 1 20		25 SPARE 27 SPARE					SPF 3 EPF 1	
1 5/31/2024 ADDENDUM #1	SPARE 30	0 0 1 20	20 1	29 SPARE					EPF 2	
	SPARE 32 SPARE 34 SPARE 36	0 1 20 0 0 1 20	20 1 0 20 1	31 SPARE 33 SPARE 35 SPARE					EPF 3 EPF 4	
	SPARE 36 SPARE 38	0 0 1 20	20 1 20 1 0	35 SPARE 37 SPARE					AC 1	
	SPARE 40 SPARE 42	0 0 1 20	20 1	39 SPARE 41 SPARE					AC 2 CU 1	
	SPARE 42	0 0 1 20	20 1	41 SPARE					CU 2 EF 9	
									EF 10	
				Notes:					E9P1	

					М	ECHANICAL-ELE	CTRICAL IN	TERFAC	E										
	EQUIPMENT	MOTOR DATA	BRANCH CIRCUIT DATA	Sc	SOURCE DATA					ONTROLS				E	QUIPMENT DI	SCONNECT	REMARKS		
						OCP		C	CP			4						4	
EQUIP. ID	DESCRIPTION	HP / (kW) VOLTAGE / / (MCA)1 PHASE	FEEDER SIZE		TYPE2 / POLES	SWITCH/FUSE SIZE or CB TRIP (A)	TYPE3	TYPE	SWITCH/FUS E	NEMA RATING	F	EQUIP.	SWITCH SIZE	POLE	OCP SIZE	NEMA RATING	FI		
AHU-51 SF1	AHU 51 SUPPLY FAN 1	5 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE C	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	E	E E AHU-51 SF1	NA	NA	NA	NA	N N I	CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONNECT	
AHU-51 SF2	AHU 51 SUPPLY FAN 2	5 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE C	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	E	E E AHU-51 SF2	NA	NA	NA	NA	N N I	CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONNECT	
AHU-51 SF3	AHU 51 SUPPLY FAN 3	5 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE C	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	E	E E AHU-51 SF3	NA	NA	NA	NA	N N I	CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONNECT	
AHU-51 SF4	AHU 51 SUPPLY FAN 4	5 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE C	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	E	E E AHU-51 SF4	NA	NA	NA	NA	N N I	CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONNECT	
AHU-51 RF1	AHU 51 RETURN FAN 1	2 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE C	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	E	E E AHU-51 RF1	NA	NA	NA	NA	N N I	CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONNECT	
AHU-51 RF2	AHU 51 RETURN FAN 2	2 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE C	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	E	E E AHU-51 RF2	NA	NA	NA	NA	N N I	CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONNECT	
AHU-51 RF3	AHU 51 RETURN FAN 3	2 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE C	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	E	E E AHU-51 RF3	NA	NA	NA	NA	N N I	CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONNECT	
		1																	
P-51	HEATING COIL PUMP	1/3 HP 120 / 1	2#12, 1#12 GRD-3/4"C	SEE FLOOR PLANS C	CB / 1	20	RIB	NA	NA	NEMA 1	E	E E P-51	20	1	NA	NEMA 1	EE		

HP /... HORSEPOWER IS SHOWN UNLESS KILOWATTS (kW) OR MINIMUM CIRCUIT AMPACITY (MCA) IS CALLED OUT TYPE2: FS FUSED SWITCH CB CIRCUIT BREAKER

NA NOT APPLICABLE

TYPE3: COMB COMBINATION MAGNETIC STARTER / DISCONNECT SWITCH OR CIRCUIT BREAKER

MAGNETIC STARTER MANUAL MOTOR STARTER PWCP PRE-WIRED CONTROL PANEL

VFD - 4KHZ VARIABLE FREQUENCY DRIVE - MAXIMUM CARRIER FREQUENCY OF 4KHZ VFD - 12KHZ VARIABLE FREQUENCY DRIVE - MAXIMUM CARRIER FREQUENCY OF 12KHZ

TOGGLE SWITCH (HORSEPOWER... THERMOSTAT RELAY IN A BOX

2-SPEED 1-WINDING MAGNETIC STARTER 2-SPEED 2-WINDING MAGNETIC STARTER NA NOT APPLICABLE

F I C4: (FURNISHED, INSTALLED, CONNECTED) MECHANICAL, PLUMBING, FIRE PROTECTION CONTRACTOR, OR FACTORY

N NOT APPLICABLE

ELECTRICAL SCHEDULES ELECTRICAL CONTRACTOR

> 09 MAY, 2024 MCCLURE PROJECT NO. 071671.000

AUSTIN P STRIEKER PE-2014032649

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University of Missouri

MU PROJECT #: CP221933

PATIENT CARE

TOWER - 8TH

FLOOR BONE

MARROW

TRANSPLANT UNIT

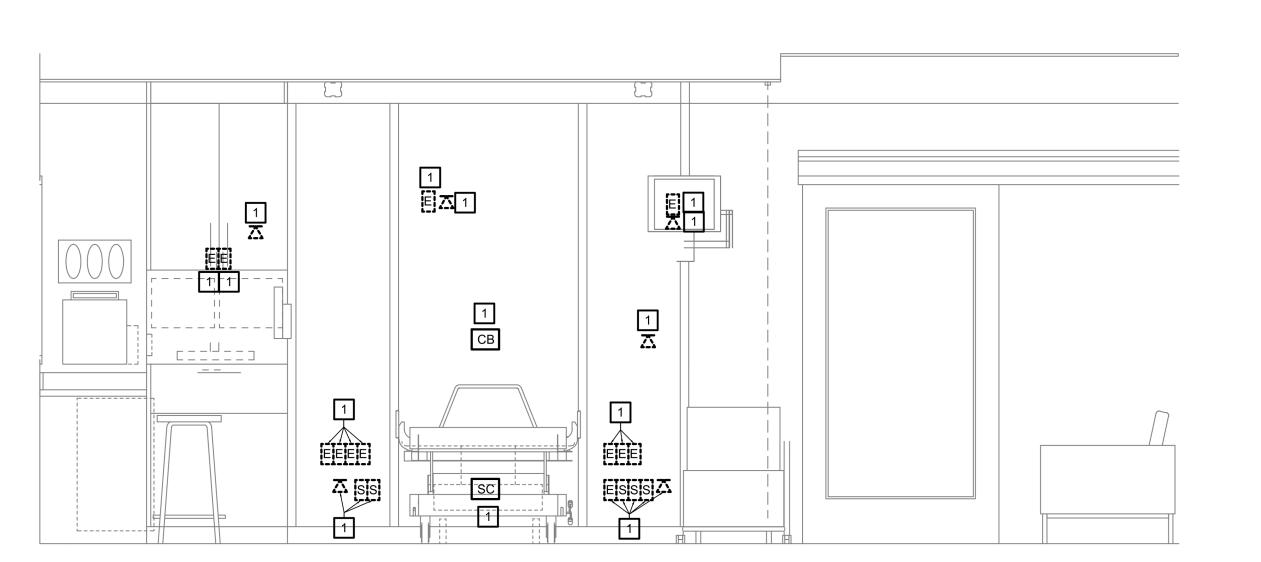
RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET

DESCRIPTION

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GENERAL NOTES:

- REFERENCE ARCHITECTURAL PHASING PLAN FOR CONSTRUCTION COORDINATION
- 2. WORK ABOVE CEILINGS AND IN FINISHED SPACES SHALL BE PERFORMED IN A HEPA BOOTH. AN INFECTION CONTROL BARRIER SHALL BE INSTALLED IF A LARGER WORK SPACE IS REQUIRED TO PERFORM THE TASK
- 3. FOR A PORTION OF A CIRCUIT WHICH IS REMOVED OR ABANDONED, RE-ESTABLISH CIRCUIT CONTINUITY FOR THE PORTION OF THE CIRCUIT WHICH IS TO REMAIN.
- 4. PROVIDE AND INSTALL SUPPORTS FOR EXISTING CABLES AND CONDUITS ABOVE CEILING THAT ARE CURRENTLY UNSUPPORTED IN ALL AREAS WHERE CEILING IS BEING REMOVED.
 5. ALL WALL MOUNTED DEVICES NOT CALLED OUT TO BE REMOVED WITHIN THE CONSTRUCTION ZONE MUST BE COVERED TO PROTECT FROM DUST OR OTHER CONSTRUCTION DEBRIS AND CLEANED AT THE COMPLETION OF THE CONSTRUCTION IN THAT AREA

 $\underline{\mathbb{N}}$

KEYED NOTES:

- 1 REMOVE DEVICE AND DEVICE COVER IN COORDINATION WITH ARCHITECTURE WALL WORK.
- 2 RELOCATE DOOR ACCESS CONTROL BOX. SEE SHEET E308 FOR NEW LOCATION.
- DISCONNECT AND MAKE SAFE FOR MECHANICAL UNIT RELOCATION. EXISTING CONTROLS AND CIRCUITING TO REMAIN
- 4 REMOVE EXISTING DEVICE FOR RELOCATION. PRIOR TO REMOVAL COORDINATE WITH OWNER.
- F REMOVE DATA DEVICE ABOVE DOOR FOR RELOCATION.
- (2) ROWS OF EXISTING WIREMOLD SHALL BE SHORTENED TO ACCOMODATE NEW DOOR INSTALL. COORDINATE ADDITIONAL REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
- 7 SEE TYPICAL HEADWALL LAYOUT DEMOLITOIN THIS SHEET FOR DEVICE DETAILS.
- 8 EXISTING CONDUIT SHALL BE REWORKED ONE AT A TIME TO ACCOMODATE NEW MECHNAICAL WORK. SEE SHEET E308 FOR ADDITIONAL INFORMATION.
- INTERCEPT AND PULL BACK (10) EXISTING 3/4" CONDUITS, WITH (3) CIRCUITS IN EACH, ONE AT A TIME, TO EXISTING PULL BOX. SEE SHEET E308 FOR ADDITIONAL INFORMATION.
 REMOVE EXISTING FIRE ALARM RELAY SERVING DOOR. FIRE ALARM RELAY SHALL BE REMOVED FROM THE FIRE ALARM
- PROGRAMMING. ALL WORK SHALL BE PERFORMED BY SIEMENS.

 11 DISCONNECT AND REMOVE EXISTING HEPA FAN POWERED BOX. EXISTING CIRCUIT SHALL BE REUSED FOR RAV BOX POWER

KEYED NOTES:

- 13 EXISTING CEILING AND ALL ASSOCIATED DEVICES (SPEAKERS, WAP'S, FIRE ALARM DEVICES, ETC.) SHALL BE TEMPORARILY REMOVED DURING CONSTRUCTION TO FACILITATE INSTALLATION OF NEW MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS. ELECTRICAL CONTRACTOR SHALL COORDINATE CEILING RENOVATIONS WITH OTHER TRADES.
- 14 DISCONNECT AND REMOVE EXISTING NURSE CALL WALL MOUNTED DOME LIGHT. DOME LIGHT SHALL BE REPLACEED WITH NEW CEILING MOUNTED LIGHT.



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Engineering Registration Number (Missouri) - 000087

University of Missouri

MU PROJECT #: CP221933

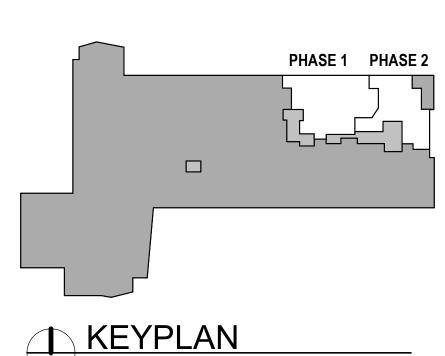
PATIENT CARE TOWER - 8TH FLOOR BONE MARROW

TRANSPLANT UNIT

RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



PLAN NORTH

MARK DATE DESCRIPTION

1 5/31/2024 ADDENDUM#1

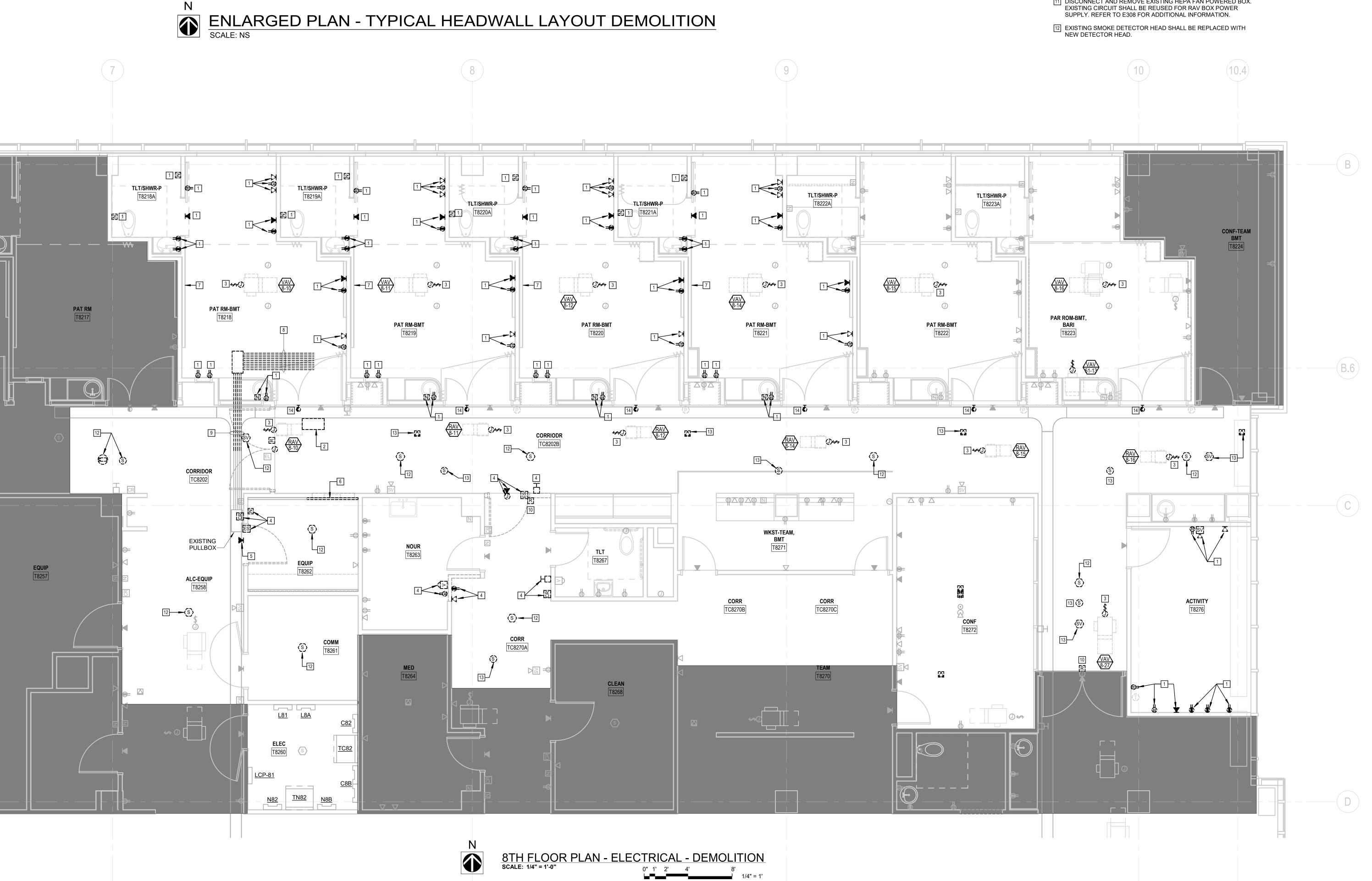
AUSTIN P STRIEKER

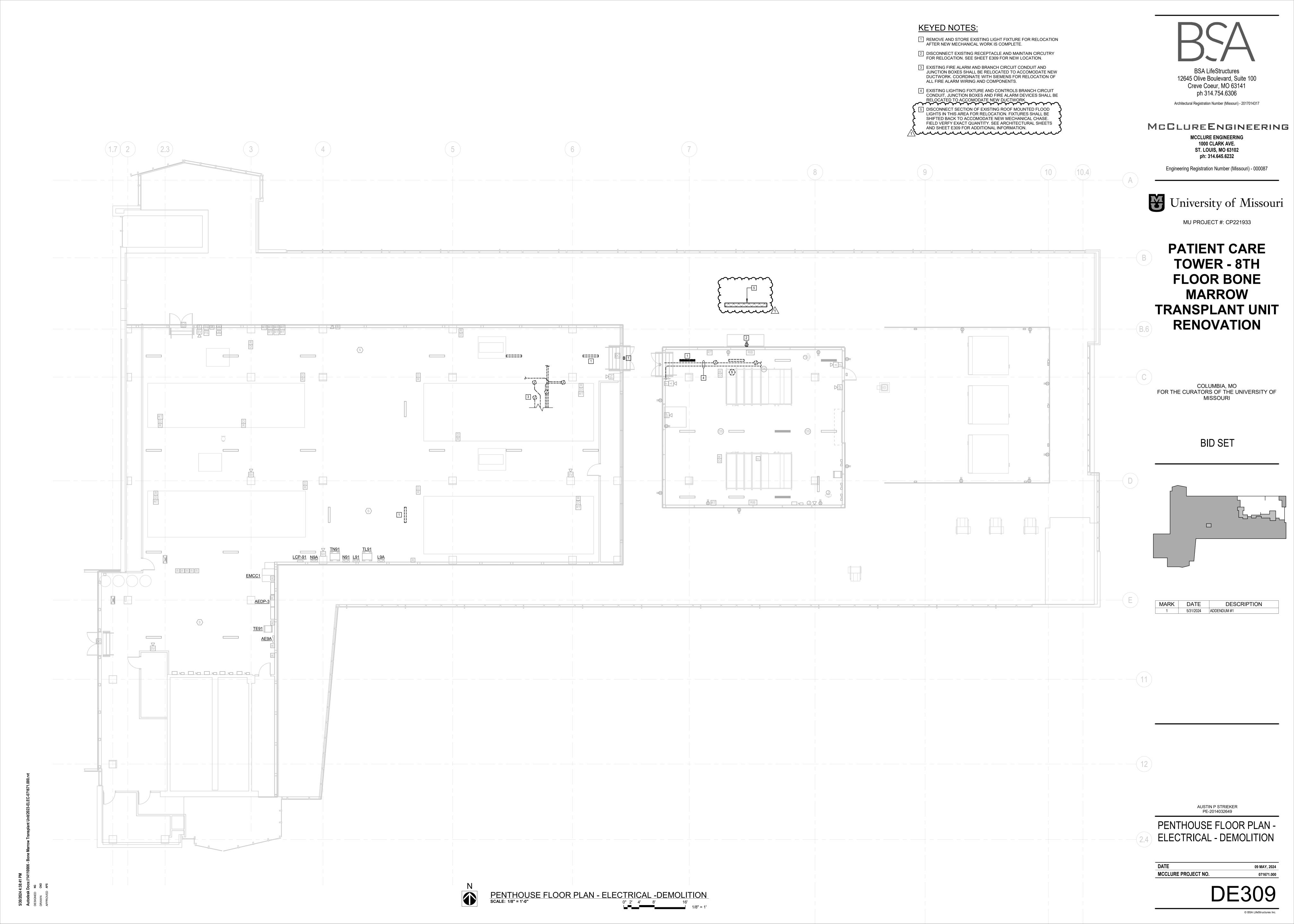
8TH FLOOR PLAN -ELECTRICAL - DEMOLITION

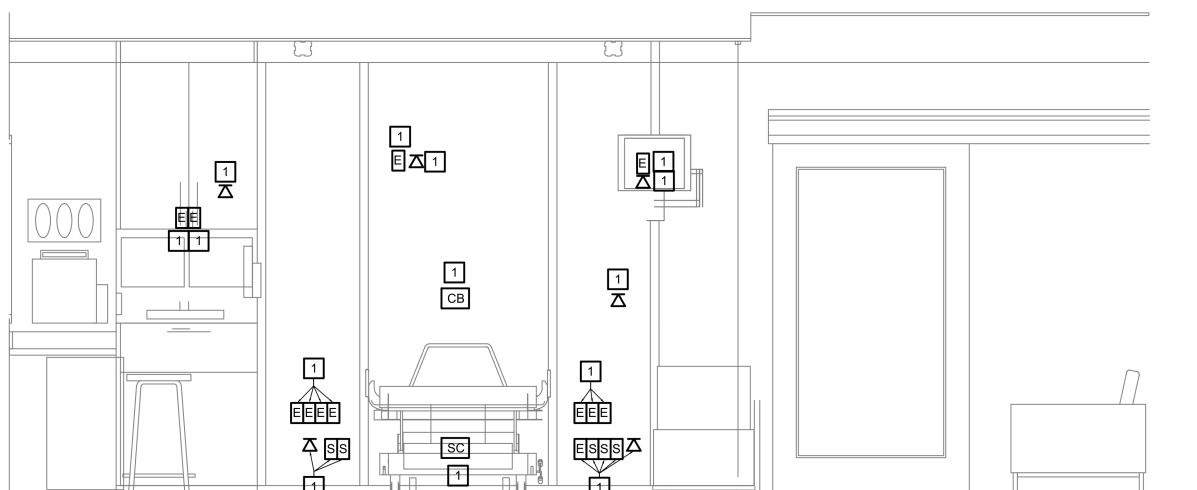
DATE
MCCLURE PROJECT NO.

071671.00

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- 1. REFERENCE ARCHITECTURAL PHASING PLAN FOR CONSTRUCTION COORDINATION
- 2. WORK ABOVE CEILINGS AND IN FINISHED SPACES SHALL BE PERFORMED IN A HEPA BOOTH. AN INFECTION CONTROL BARRIER SHALL BE INSTALLED IF A LARGER WORK SPACE IS REQUIRED TO PERFORM THE TASK
- 3. REMOVE AND REINSTALL ALL CEILING TILES AND GRID TO REMAIN AS REQUIRED FOR INSTALLATION OF NEW WORK ON THIS SHEET. CONTRACTOR TO REPLACE ANY DAMAGED TILE TO THE SATISFACTION OF THE ENGINEER/ARCHITECT. MATCH EXISTING
- 4. TEMPORARILY SUPPORT, REMOVE AND REINSTALL, OR RELOCATE ALL CEILING DEVICES IN COORDINATION WITH CEILING REPLACEMENT WORK AND MECHANICAL DUCT ROUTING. REFER TO ARCHITECTURAL AND MECHNAICAL SHEETS FOR COORDINATION OF THIS WORK.
- BOX AND CONDUIT SHALL BE INSTALLED BELOW NEW MECHANICAL

REINSTALL DEVICE AND DEVICE COVERPLATE. REPLACE ALL DAMAGED OR OVER PAINTED TRIM COVERPLATES WITH NEW

2 RELOCATED DOOR ACCESS CONTROL BOX.

ENGRAVED COVERPLATES AS REQUIRED.

3 EXTEND EXISTING CIRCUIT AND CONTROLS TO NEW MECHANICAL

4 REPLACE EXISTING SMOKE DETECTOR WITH NEW DETECTOR HEAD.

6 SEE TYPICAL HEADWALL LAYOUT NEW WORK THIS SHEET FOR

7 REWORK EXISTING CONDUIT TO NEW JUNCTION BOX. JUNCTION

KEYED NOTES:

5 RELOCATED DEVICE.

DEVICE DETAILS.

- 11 REINSTALL EXISTING CEILING MOUNTED DEVICE IN SAME LOCATION AFTER INSTALLATION OF NEW MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS. ELECTRICAL CONTRACTOR SHALL COORDINATE CEILING RENOVATIONS WITH OTHER TRADES.
- CONTROLS. DOOR SHALL BE PROGRAMMED TO NOT ALLOW OPERATOR TO BE HELD OPEN.

BSA LifeStructures

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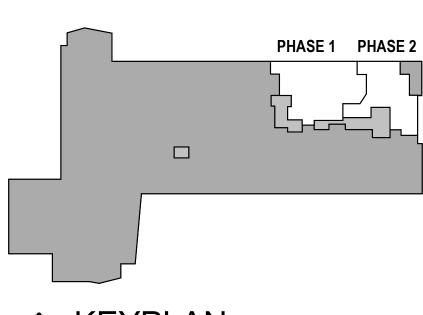
MU PROJECT #: CP221933

PATIENT CARE

TOWER - 8TH FLOOR BONE MARROW TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



KEYPLAN PLAN NORTH

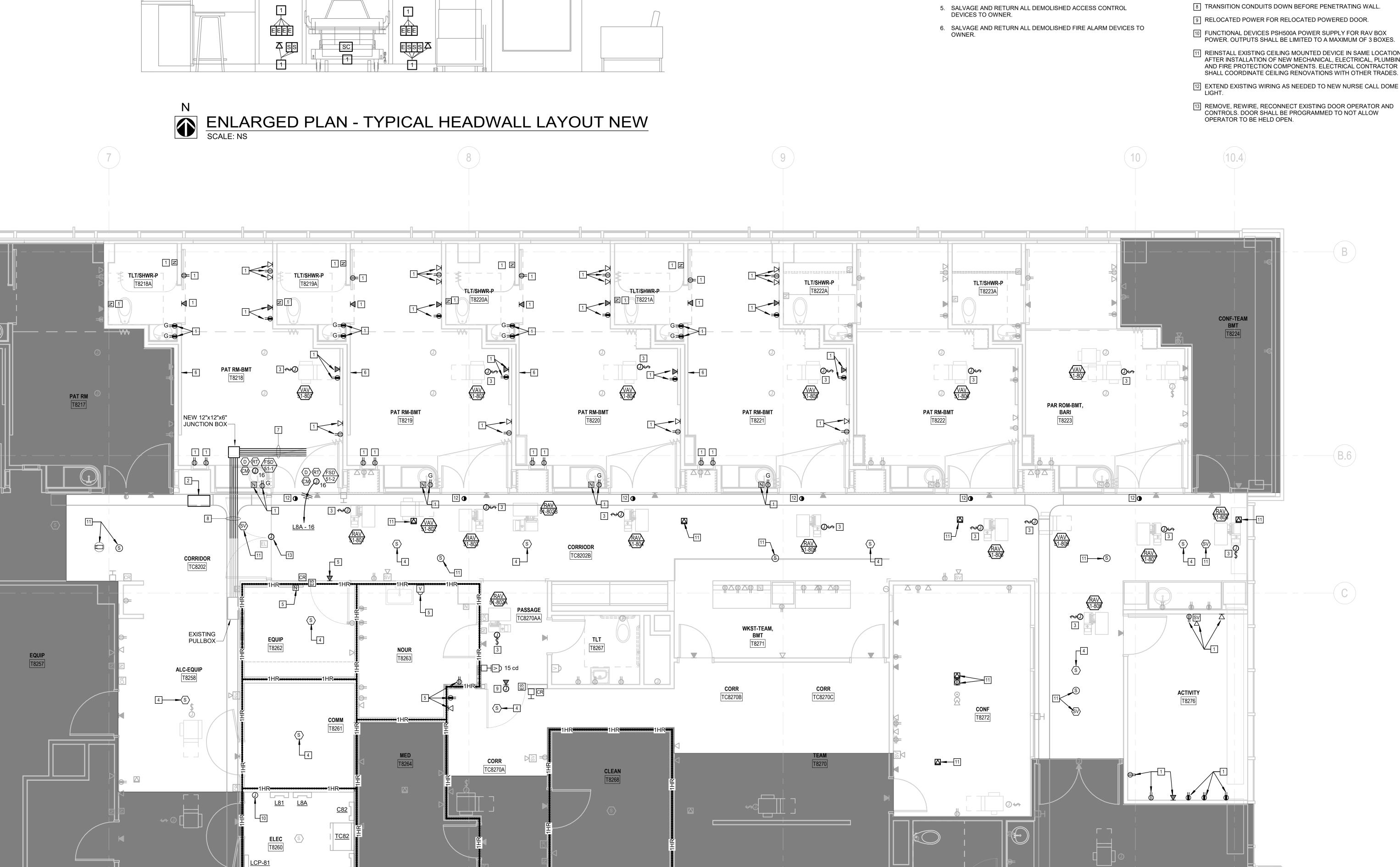
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 ADDENDUM #1
 DESCRIPTION

AUSTIN P STRIEKER

8TH FLOOR PLAN -ELECTRICAL - NEW WORK

MCCLURE PROJECT NO.



8TH FLOOR PLAN - ELECTRICAL - NEW WORK
SCALE: 1/4" = 1'-0"

