

PATIENT CARE TOWER – T1251 LINEAR ACCELERATOR REPLACEMENT MU Project # CP212451

ISSUED FOR BID
APRIL 21, 2022

UNIVERSITY OF MISSOURI, COLUMBIA MU HEALTH
 FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

APPLICABLE CODES AND STANDARDS		
ABBREVIATIONS	TITLE	EDITION
IBC	INTERNATIONAL BUILDING CODE	2021
IPC	INTERNATIONAL PLUMBING CODE	2021
IMC	INTERNATIONAL MECHANICAL CODE	2021
IEBC	INTERNATIONAL EXISTING BUILDINGS CODE	2021
IFC	INTERNATIONAL FIRE CODE	2021
IFGC	INTERNATIONAL FUEL GAS CODE	2021
ICC A117.1	ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES	2017
NFPA 70	NATIONAL ELECTRICAL CODE	2020
NFPA 110	STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS	2019
NFPA 101	LIFE SAFETY CODE	2012
NFPA 99	STANDARD FOR HEALTH CARE FACILITIES	2012 & 2018
NFPA 90A	INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS	2018
NFPA 518	STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK	2019
ASHRAE 90.1	ENERGY STANDARD FOR BUILDINGS	2019
ASHRAE 170	VENTILATION OF HEALTH CARE FACILITIES	2017
ADA	ADA STANDARDS FOR ACCESSIBLE DESIGN	2010
FGI	FACILITIES GUIDELINE INSTITUTE	2018

LIFE SAFETY LEGEND	
	2 HOUR FIRE BARRIER
	1 HOUR FIRE BARRIER
	SMOKE BARRIER
	EXIT STAIRWELL
	SUITES
	EXIT DISCHARGE PASSAGEWAY
	AREA UNDER CONSTRUCTION
	AREA UNDER TEMPORARY REASSIGNMENT
	DISTANCE TO SMOKE BARRIER DOOR
	DISTANCE TO EXIT
	EXTERIOR EXIT
	LINEN/ TRASH CHUTE
	HAZARDOUS AREA
	HAZARDOUS AREA (MULTIPLE ROOMS)
	SUITE ID (Suite "Floor"-Suite #)
	COMPARTMENT ID

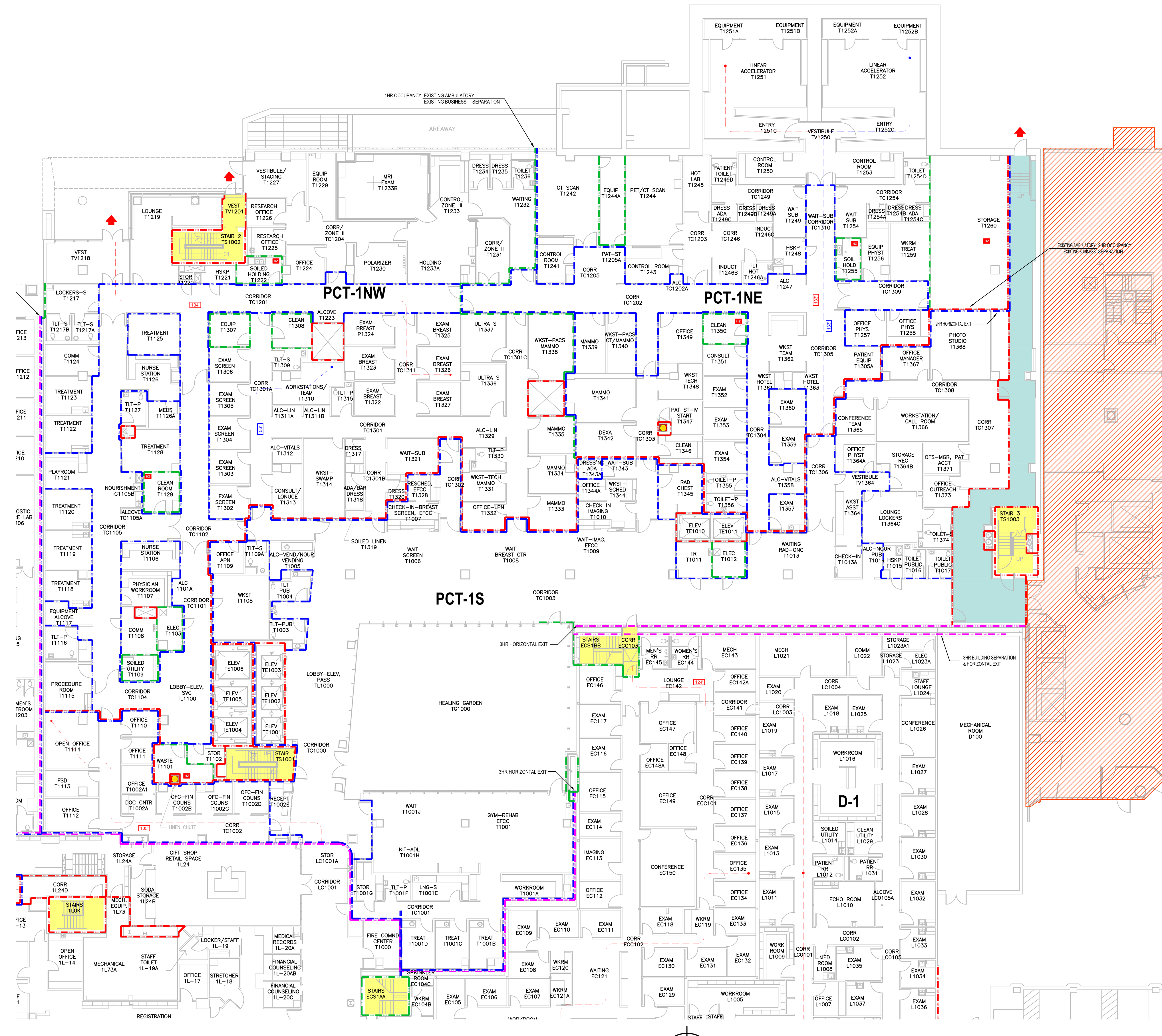
SHEET INDEX	
SHEET NUMBER	SHEET NAME
AG001	LEGEND, ABBREVIATIONS, & NOTES
AG100	CONSTRUCTION ACCESS PLAN
A-100	ORIENTATION PLAN
A-110	PLANS
A-200	ELEVATIONS & DETAILS

MECHANICAL	
SHEET NUMBER	SHEET NAME
M000	MECHANICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS
M100	MECHANICAL PIPING - LEVEL 1
M101	MECHANICAL PIPING - LEVEL 4
M600	CONTROLS & DETAILS

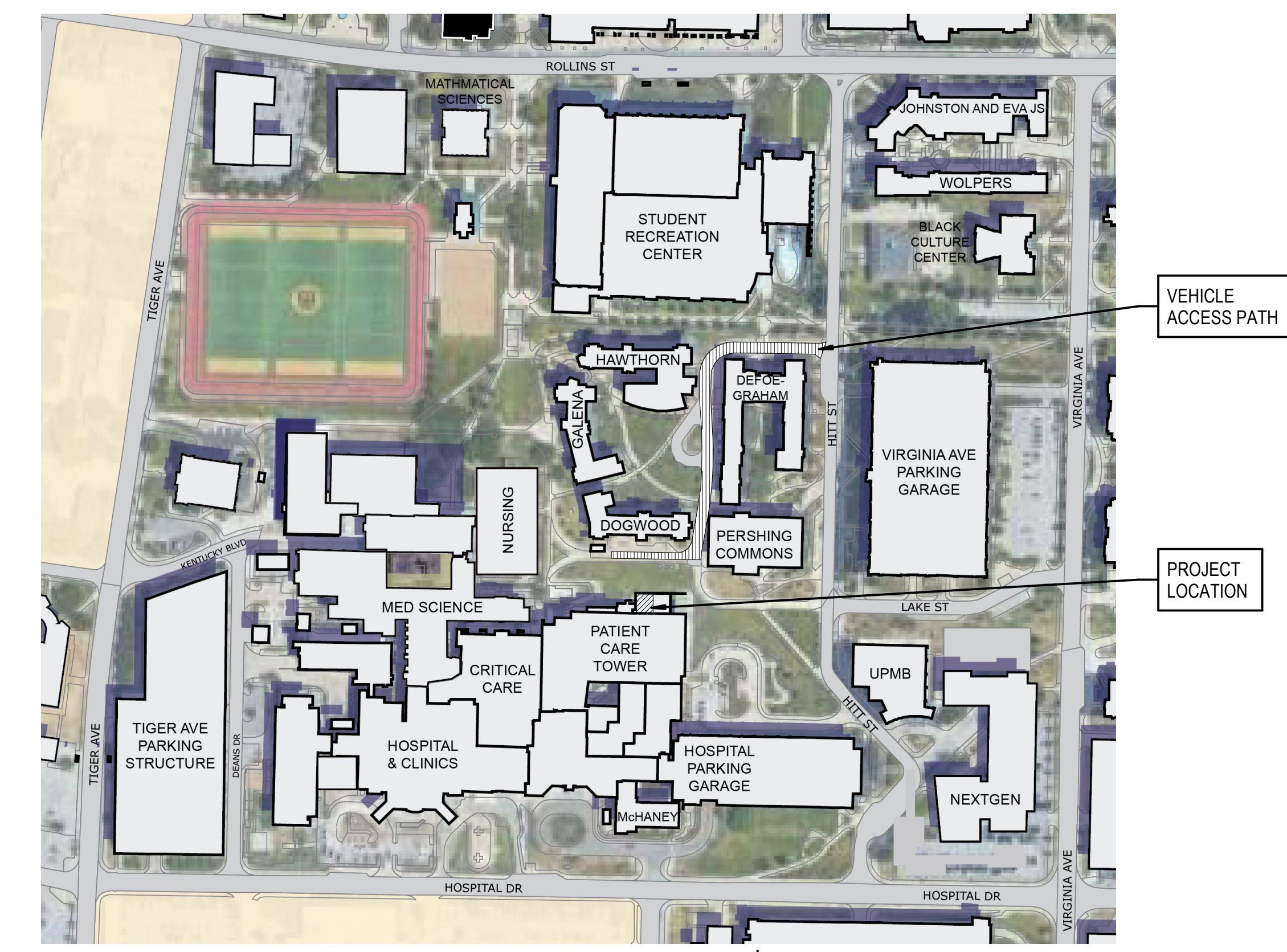
ELECTRICAL	
SHEET NUMBER	SHEET NAME
E001	ELECTRICAL SYMBOLS LEGEND
E100	ELECTRICAL ORIENTATION PLAN
E200	LINEAR ACCELERATOR ROOM

EQUIPMENT	
Sheet Number	Sheet Name
Q-100	VENDOR EQUIPMENT DRAWINGS
Q-101	VENDOR EQUIPMENT DRAWINGS
Q-102	VENDOR EQUIPMENT DRAWINGS

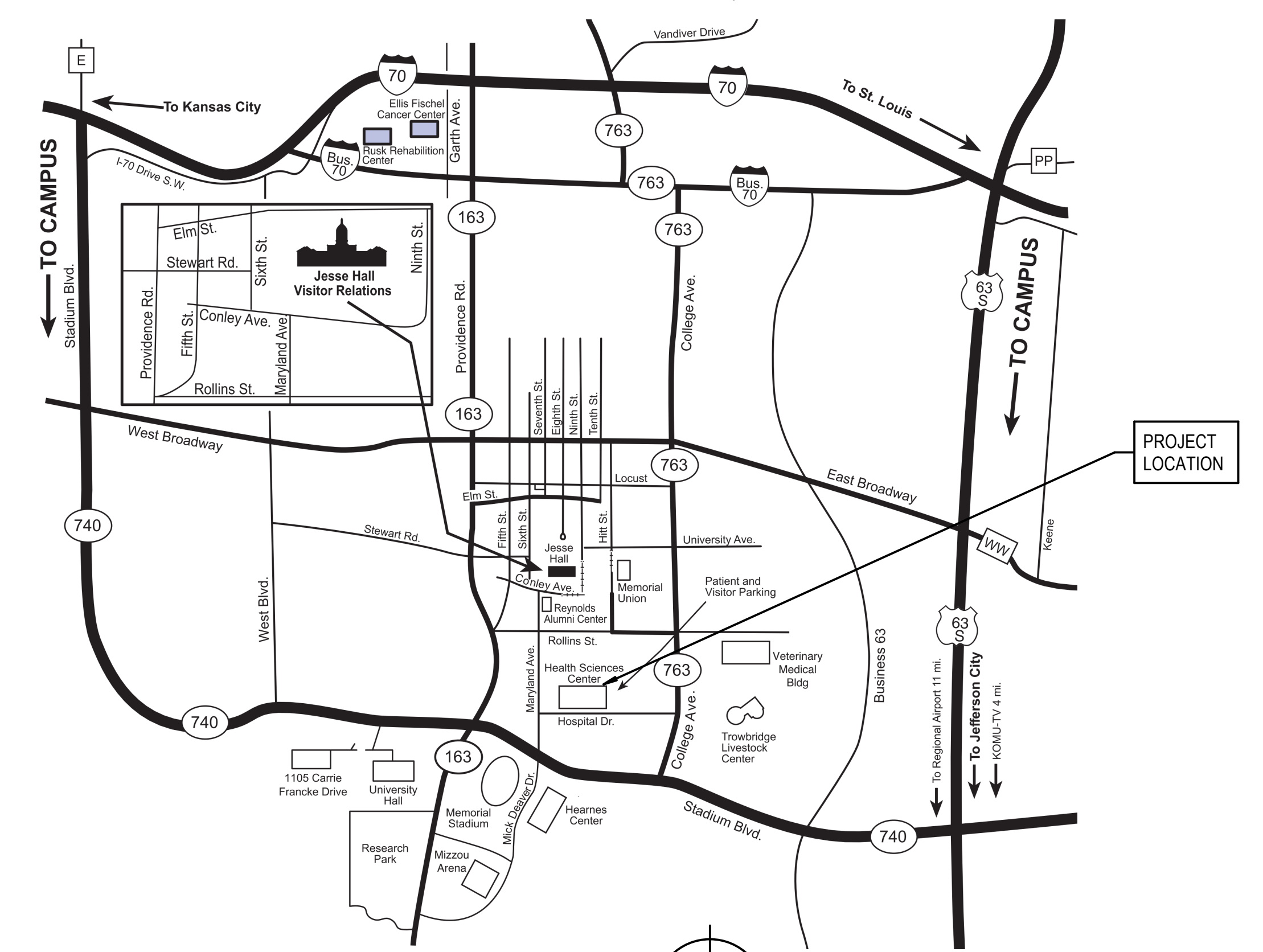
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EXISTING LIFE SAFETY PLAN



VICINITY MAP



AREA MAP



MICHAEL M. MOSER
 ARCHITECT
 A-2011009350

BURNS & MCDONNELL
 9400 WARD PARKWAY
 KANSAS CITY, MO 64114
 P: 816-333-9400

MCCoA # - Architecture: 000089
 MCCoA # - Engineering: 000165
 MCCoA # - Landscape: 2016016502

date	detailed
04/21/22	J. LOTT

designed	checked
J. LOTT	C. PRICE

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SHEET INDEX	
project	contract
137998	CP212451
drawing	rev.
sheet	of sheets
file	

G-001 - 0

CALL OUT IDENTIFICATION

SECTION, DETAIL, AND ELEVATION SYMBOL IDENTIFIERS:

LETTER OR NUMBER DESIGNATOR

ONE OR TWO CHARACTER DISCIPLINE DESIGNATOR (MAY NOT BE PRESENT IF CALLOUT AND TITLE ARE ON DRAWINGS WITHIN THE SAME DISCIPLINE)

DRAWING SEQUENCE NUMBER INDICATES WHERE TITLE IS LOCATED (MAY NOT BE PRESENT IF CALLOUT AND TITLE ARE ON THE SAME DRAWING)

WALL SECTION CALLOUT EXAMPLE:

LETTER OR NUMBER INDICATES SECTION

SHEET NUMBER WHERE SECTION IS DRAWN

BUILDING SECTION CALLOUT EXAMPLE:

LETTER OR NUMBER INDICATES SECTION

SHEET NUMBER WHERE SECTION IS DRAWN

VIEW REFERENCE EXAMPLE:

NUMBER INDICATES DETAIL

SHEET NUMBER WHERE SECTION IS DRAWN

DETAIL CALLOUT EXAMPLE:

LETTER OR NUMBER INDICATES DETAIL

SHEET NUMBER WHERE DETAIL IS DRAWN

ELEVATION CALLOUT EXAMPLE:

INTERIOR

EXTERIOR

SECTION, DETAIL, AND ELEVATION TITLE EXAMPLE:

THE WORD "SECTION" MAY BE REPLACED WITH "ELEVATION" OR "DETAIL"

SECTION

TITLE

NORTH ARROW EXAMPLE:

NORTH

PLAN LEGEND

PLAN LEGEND:

EXISTING DOOR

NEW DOOR

EXISTING WALL

NEW WALL

ROOM NAME

ROOM NUMBER

GRID BUBBLE AND LINE

MATERIAL SYMBOLS

UNDISTURBED EARTH

COMPACTED FILL

GRAVEL

GRASS

FACE BRICK

MASONRY

CONCRETE MASONRY UNIT

CONCRETE

TERRAZZO

RIGID INSULATION

PLYWOOD

GROUT OR GYPSUM BOARD

SAND, PLASTER, OR PORTLAND CEMENT

STEEL OR FERROUS METALS

ALUMINUM OR NON-FERROUS METALS

FINISHED WOOD

PARTICLE BOARD

GLUED-LAMINATED WOOD

PLASTIC LAMINATE

BATT INSULATION

METAL STUD WALL

BACKER ROD AND SEALANT

DIMENSION LUMBER

ABBREVIATIONS

-A- ARCHITECT/ENGINEER

ACOUST ACOUSTICAL

ADJ ADJACENT, ADJUSTABLE

AFF ABOVE FINISH FLOOR

AHJ AUTHORITY HAVING JURISDICTION

ALT ALTERNATE

ALUM ALUMINUM

APPROX APPROXIMATE

ARCH ARCHITECTURE, ARCHITECT

-B- BOARD

BD BOARD

BITUM BITUMINOUS

BLDG BUILDING

BLKG BLOCKING

BO BOTTOM OF, AS IN "BO STEEL"

BTWN BETWEEN

-C- CABINET

CCTV CLOSED CIRCUIT TELEVISION

CID COMPREHENSIVE INTERIOR DESIGN

CJ CONTROL JOINT, CONSTRUCTION JOINT

CL CENTER LINE

CLG CEILING

CLR CLEAR

CMU CONCRETE MASONRY UNIT

CO CLEANOUT

COL COLUMN

COMM COMMUNICATION

CONC CONCRETE

CONSTR CONSTRUCTION

CONT CONTINUOUS

CONTR CONTRACT, CONTRACTOR

COORD COORDINATE

CORR CORRUGATED OR CORRIDOR

CU CUBIC

°C CELSIUS

-D- DOUBLE

DBL DOUBLE

DEMO DEMOLITION

DESCR DESCRIPTION

DET DETAIL

DIA DIAMETER

DIAG DIAGONAL

DIM DIMENSION

DN DOWN

DR DOOR

DS DOWNSPOUT

DWG DRAWING

-E- EAST

E EAST

EA EACH

EEW EMERGENCY EYEWASH

EEWS EMERGENCY EYEWASH & SHOWER

EF EXHAUST FAN

EJ EXPANSION JOINT

EL ELEVATION, AS IN HEIGHT

ELAST ELASTOMERIC

ELEC ELECTRIC / ELECTRICAL

ELEV ELEVATOR, OR ELEVATION AS IN NORTH ELEV

EQ EQUAL

EQUIP EQUIPMENT

ETC AND SO FORTH (ETCETERA)

EW EACH WAY

EWC ELECTRIC WATER COOLER

EXH EXHAUST

EXIST EXISTING

EXP EXPANSION

EXT EXTERIOR

ABBREVIATIONS

-F- FLOOR DRAIN

FDN FOUNDATION

FE FIRE EXTINGUISHER WITH WALL BRACKET

FEC FIRE EXTINGUISHER CABINET

FF FINISH FLOOR

FF&E FURNITURE, FIXTURES & EQUIPMENT

FHC FIRE HOSE CABINET (WITH EXTINGUISHER & BRACKET)

FHR FIRE HOSE REEL (WITH EXTINGUISHER & BRACKET)

FIN FINISHED, FINISH

FLR FLOOR

FT FEET / FOOT

*F FAHRENHEIT

-G- GAUGE

GA GAUGE

GALV GALVANIZED

GL GIRT LINE

GRTG GRATING

GYP GYPSUM

GYP BD GYPSUM BOARD

-H- HIGH

H HIGH

HD HAND

HDWR HARDWARE

HM HOLLOW METAL

HORIZ HORIZONTAL

HT HEIGHT

HVAC HEATING, VENTILATION & AIR CONDITIONING

-I- INSIDE DIAMETER

ID INSIDE DIAMETER

IN INCH

INSUL INSULATION

INT INTERIOR

-J- JANITOR'S CLOSET

JAN JANITOR'S CLOSET

-L- LEFT, LONG, LENGTH

L LEFT, LONG, LENGTH

LAB LABORATORY

LAT LATITUDE

LAV LAVATORY

LB or # POUND

LH LEFT HAND

LONG LONGITUDE

LVR LOUVER

-M- METER

M METER

MACH MACHINE

MAINT MAINTENANCE

MAS MASONRY

MATL MATERIAL

MAX MAXIMUM

MECH MECHANICAL

MFR MANUFACTURER

MIN MINIMUM

MISC MISCELLANEOUS

MM MILLIMETER

MO MASONRY OPENING

MTD MOUNTED

MTL METAL

-N- NORTH

N NORTH

N/A NOT APPLICABLE

NIC NOT IN CONTRACT

NO NUMBER

NOM NOMINAL

NTP NOTICE TO PROCEED

NTS NOT TO SCALE

-O- ON CENTER

OC ON CENTER

OD OUTSIDE DIAMETER

OFF OFFICE

ABBREVIATIONS

OPNG OPENING

OPP OPPOSITE

-P- PUBLIC ADDRESS

PA PUBLIC ADDRESS

PERIM PERIMETER

PKG PACKAGE

PL PLATE

PLMB PLUMBING

PLYWD PLYWOOD

PROJ PROJECT

PSF POUNDS PER SQUARE FOOT

PSI POUNDS PER SQUARE INCH

PVC POLYVINYL CHLORIDE

-R- RADIUS

R RADIUS

R/A RETURN AIR

RCP REFLECTIVE CEILING PLAN

RD ROOF DRAIN

RECP RECEPTACLE

REFER REFERENCE

REINF REINFORCED

REQ'D REQUIRED

REV REVISION

RH RIGHT HAND

RO ROUGH OPENING

-S- SOUTH

S SOUTH

S/A SUPPLY AIR

SCHED SCHEDULE

SECT SECTION

SF SQUARE FOOT

SID STRUCTURAL INTERIOR DESIGN

SIM SIMILAR

SPEC SPECIFICATION

SQ SQUARE, AS IN "SQ FT"

STC SOUND TRANSMISSION COEFFICIENT

STD STANDARD

STOR STORAGE

STRUCT STRUCTURAL

SUPP SUPPORT

SUSP SUSPENDED

SYS SYSTEM

-T- TRENCH DRAIN

TD TRENCH DRAIN

TECH TECHNICAL

THRU THROUGH

TLT TOILET

TO TOP OF, AS IN "TO STEEL"

TYP TYPICAL

-U- UNDERWRITERS LABORATORY

UL UNDERWRITERS LABORATORY

UNO UNLESS NOTED OTHERWISE

UTIL UTILITY

-V- VENTILATE, VENTILATOR

VENT VENTILATE, VENTILATOR

VERT VERTICAL

VOL VOLUME

-W- WEST, WIDTH

W WEST, WIDTH

WO WITHOUT

WC WATER CLOSET

WD WOOD

WH WATER HEATER

WT WEIGHT

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AS LISTED OR REFERENCED OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR SHALL INCLUDE ALL WORK REQUIRED TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AS LISTED OR REFERENCED OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVER PLANS AND ELEVATIONS. LARGE SCALE DETAILS OR PLANS SHALL GOVERN OVER SMALL SCALE DETAILS OR PLANS. DO NOT SCALE DRAWINGS.
- ALL FLOORS SHALL BE INSPECTED FOR DAMAGE, WARPING OR OTHER NOTICEABLE DEVIATIONS AND PATCHED AND LEVELED PRIOR TO COVERING WITH FLOOR FINISHES, OR ERECTION AND INSTALLATION OF METAL STUD FRAMING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MANUFACTURER'S RECOMMENDED MAINTENANCE PROCEDURES AND SCHEDULES.
- ANY MANUFACTURER'S OR BRAND NAME PRODUCTS INDICATED OR SPECIFIED ARE DONE SO TO ESTABLISH A MINIMUM LEVEL OF QUALITY.
- ALL CONSTRUCTION SHALL MEET OR EXCEED LOCAL INDUSTRY STANDARDS. DETAILS ARE PROVIDED TO INDICATE MINIMUM QUALITY AND TO GIVE STANDARDS OF CONSTRUCTION. IF A CONDITION IS NOT SPECIFICALLY DETAILED, SUBMIT A SIMILAR DETAIL FOR GUIDE AND APPROVAL.
- THE LETTERS I, O, AND Q ARE NOT USED TO INDICATE DETAILS, SECTIONS OR ELEVATIONS.
- ALL CONDUITS, PLUMBING, PIPING, DUCTWORK, AND OTHER EQUIPMENT EXPOSED TO VIEW SHALL BE LOCATED PARALLEL OR PERPENDICULAR TO THE STRUCTURAL FRAMING SYSTEM.
- PROVIDE FIRE-STOPPING SYSTEMS AT TOP OF AND AT ALL PENETRATIONS THROUGH FIRE-RATED PARTITIONS.
- ARCHITECTURAL DETAILS ARE APPLICABLE WHERE INDICATED BY SECTION CUT, BY NOTE, OR BY DETAIL TITLE. INCORPORATE SIMILAR DETAILS AT SIMILAR CONDITIONS UNLESS NOTED OTHERWISE. THE CONTRACTOR MAY REQUEST A CLARIFICATION IF REQUIRED, OTHERWISE THE MORE STRINGENT REQUIREMENTS SHALL CONTROL.
- THE CONTRACTOR SHALL REVIEW THE DIMENSIONS OF ALL EQUIPMENT IN THE PROJECT REGARDLESS OF THE SOURCE AND COORDINATE ACCESS TO THE SPACE AND VERIFY CLEAR FLOOR SPACE IS PROVIDED AS REQUIRED TO ENSURE EASE OF INSTALLATION.
- ALL WORK MUST BE OF GOOD QUALITY, FREE FROM DEFECTS, AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PENETRATIONS IN THE STRUCTURE FOR THE PROPER INSTALLATION OF THE WORK.
- EXTEND ALL FLOORING AND WALL-BASE COMPLETELY INTO RECESSES, UNDER OPEN COUNTERTOPS, AND BEHIND ALL EQUIPMENT.
- ALL MATERIALS USED FOR CONSTRUCTION SHALL BE NEW AND UNDAMAGED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL WORK SHOWN.
- THE CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE DESIGN PROFESSIONALS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
- DRAWINGS CONTAINED IN THIS SET SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. COPIES OF THESE DRAWINGS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.
- EACH INSTALLER MUST EXAMINE SUBSTRATE AND/OR CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED AND REPORT TO THE CONTRACTOR IN WRITING ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THE INSTALLERS WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. INSTALLATION SHALL CONSTITUTE ACCEPTANCE OF THE SUBSTRATE AND/OR CONDITIONS.
- "TYPICAL" (TYP) AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITIONS OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXTENT, NATURE, AND SCOPE OF WORK DESCRIBED IN THE CONTRACT DOCUMENTS AND COORDINATING THE INTERFACING OF THE EXISTING BUILDING AND THE WORK SHOWN AND DESCRIBED IN THESE CONTRACT DOCUMENTS WITH THE OWNERS REPRESENTATIVE.
- ALL "EXISTING" INFORMATION ON THE CONTRACT DOCUMENTS HAS BEEN OBTAINED FROM A PREVIOUS SET OF DRAWINGS, OR FROM FIELD INVESTIGATION AND SUCH "EXISTING" INFORMATION SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS REPRESENTATIVE FOR DESIGNATED CONSTRUCTION STAGING LOCATIONS, STORAGE AREAS, AND CONSTRUCTION SEQUENCING.

no.	date	by	ckd	description
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MOCOA # - Engineering: 000165
MOCOA # - Landscape: 2016016502

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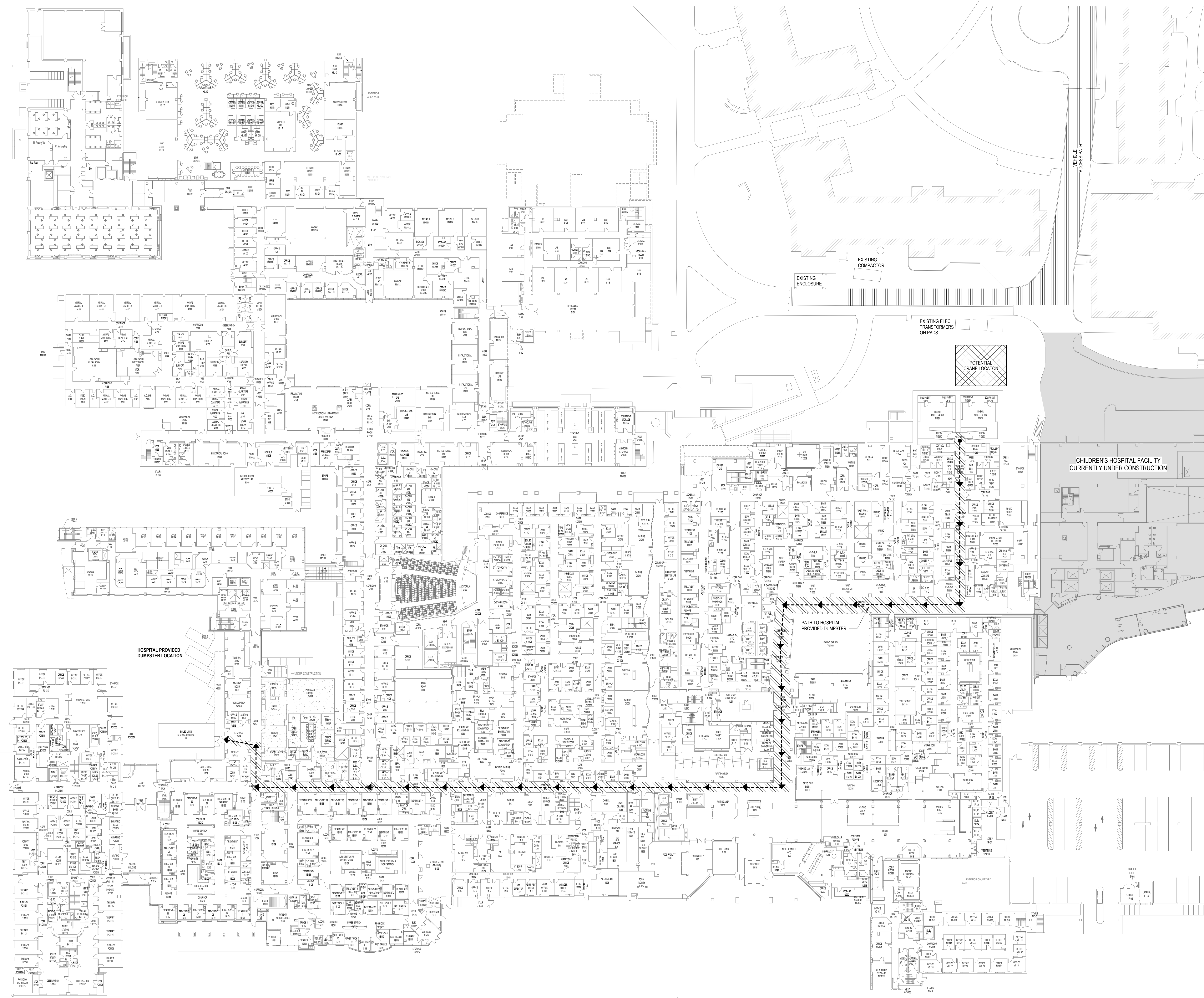
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LEGEND, ABBREVIATIONS, & NOTES

project	contract
137998	CP212451
drawing	rev.
AG001	0
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A
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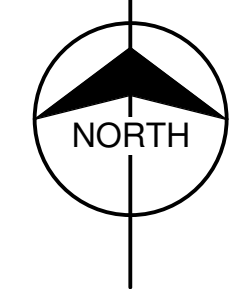
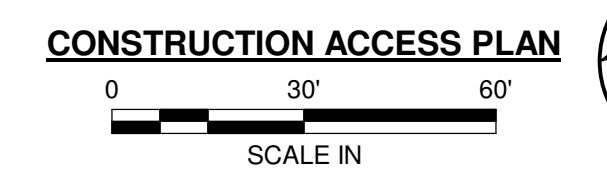
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CONSTRUCTION ACCESS PLAN

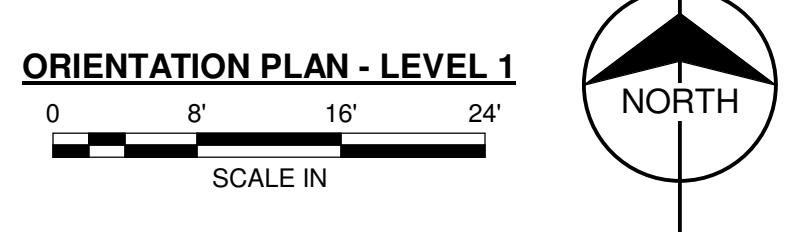
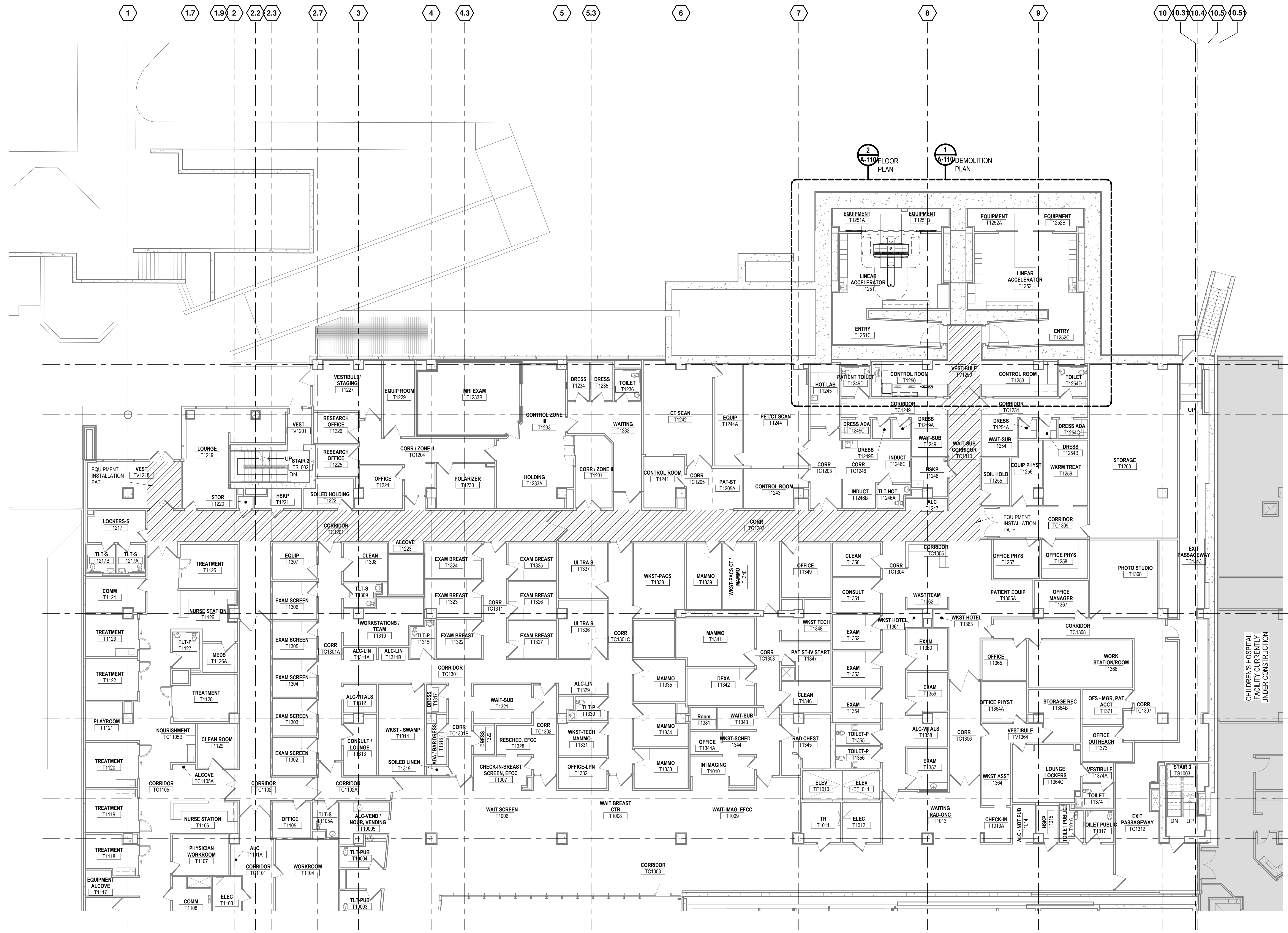
project	137998	contract	CP212451
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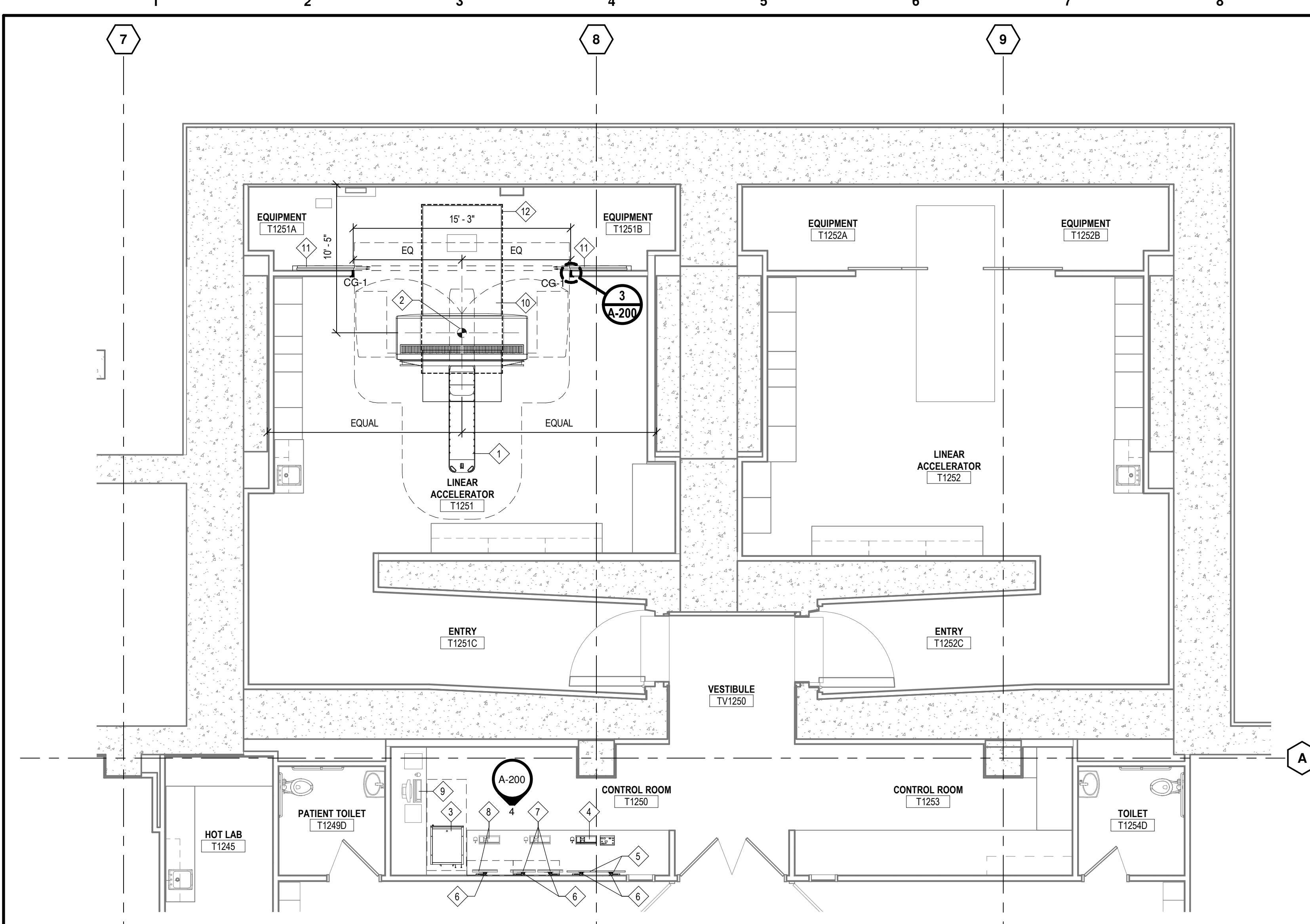
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ORIENTATION PLAN

project	contract	
137998	CP212451	
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A-100	0	
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PLAN
PARTIAL FLOOR PLAN - LEVEL 1
A-110
 0 4' 8' 12'
 SCALE IN

FLOOR PLAN KEYED NOTES:

- 1 LINEAR ACCELERATOR, REFERENCE EQUIPMENT VENDOR DRAWINGS.
- 2 LINEAR ACCELERATOR ISOCENTER.
- 3 LINEAR ACCELERATOR CONSOLE CABINET, REFERENCE EQUIPMENT VENDOR DRAWINGS.
- 4 LINEAR ACCELERATOR CONTROL STATION, REFERENCE EQUIPMENT VENDOR DRAWINGS.
- 5 FLAT SCREEN MONITOR, REFERENCE EQUIPMENT VENDOR DRAWINGS.
- 6 MONITOR WALL MOUNT, OFCI.
- 7 EXISTING VISION RT WORKSTATION, MONITORS TO BE WALL MOUNTED, WALL MOUNTS OFCI.
- 8 EXISTING THICK CLIENT AREA WORKSTATION, MONITOR TO BE WALL MOUNTED, WALL MOUNT OFCI.
- 9 EXISTING PHYSICS QA WORKSTATION.
- 10 INFILL EXISTING PIT WITH HIGH STRENGTH, NON-SHRINK GROUT TO FORM NEW 5'-10" X 2'-5 1/8" PIT CENTERED ON ISOCENTER PER EQUIPMENT VENDOR REQUIREMENTS.
- 11 BYPASS SLIDING DOORS WITH HEADER TRACK, REFERENCE ELEVATION 1/A-200. BYPASS SLIDING DOORS TO BE 36mm 100.06 FRAMED SLIDING DOOR.

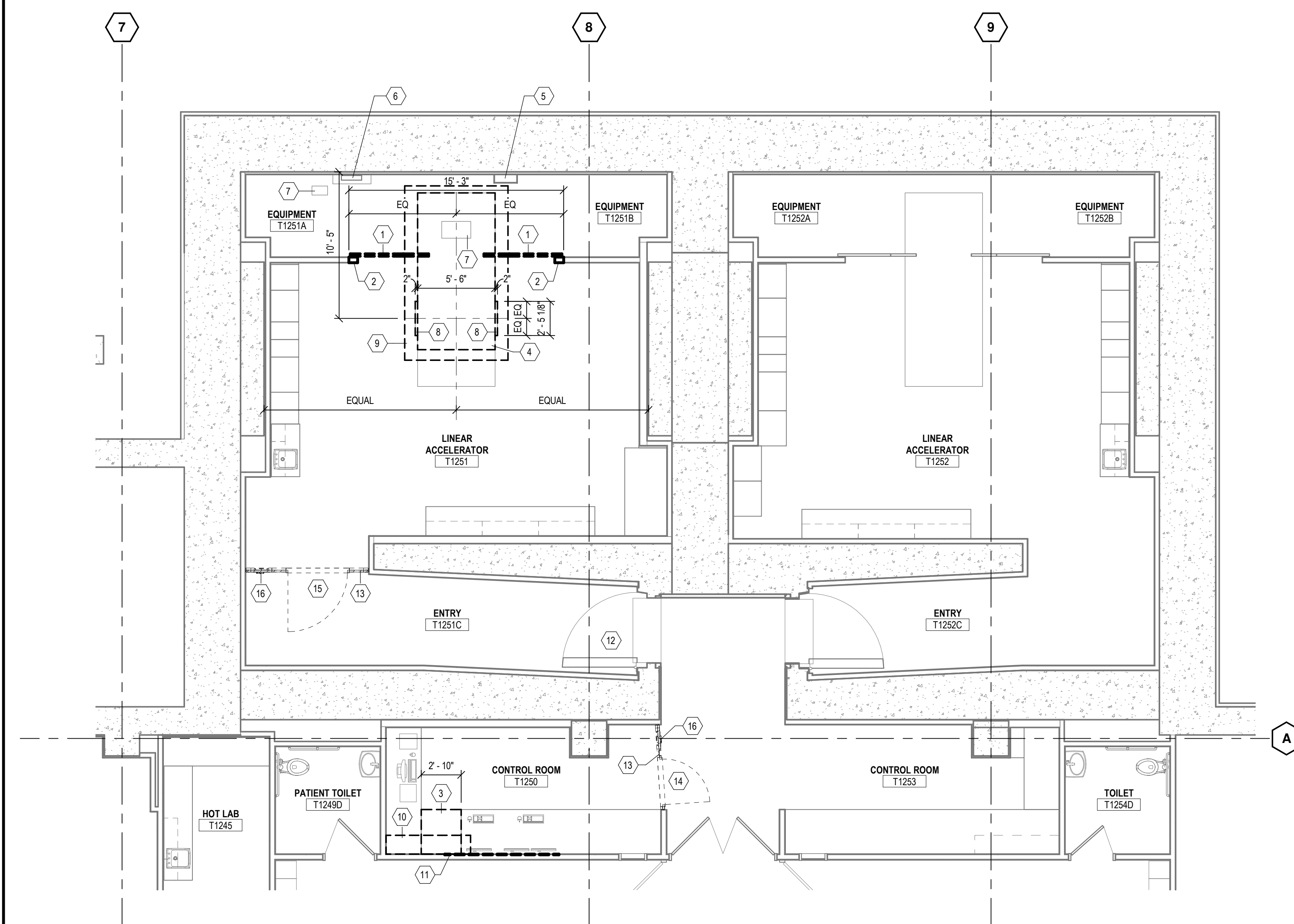
- 12 PATCH FLOORING WHERE EXISTING EQUIPMENT AND PORTION OF EXISTING FLOORING ARE REMOVED TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT.

GENERAL FLOOR PLAN NOTES:

- 1. FOR ARCHITECTURAL GENERAL NOTES, MATERIAL LEGEND, AND ABBREVIATIONS REFER TO SHEET AG001.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE BEGINNING WORK AND FABRICATION. THE ARCHITECT SHALL BE NOTIFIED IN WRITING IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO CASE SHALL DIMENSIONS BE SCALED OFF PLANS, SECTIONS, OR DETAILS FROM THESE DRAWINGS.
- 3. FOR DIMENSIONS OR ADDITIONAL INFORMATION NOT ILLUSTRATED, REFER TO LARGER SCALE DRAWINGS.
- 4. REFER TO FINISH SCHEDULE AND FINISH PLANS FOR ADDITIONAL FINISH INFORMATION. ALL FLOOR FINISHES TO BE CONTINUOUS UNDER MILLWORK AND EQUIPMENT UNLESS NOTED OTHERWISE.
- 5. REFERENCE THE REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
- 6. ALL DIMENSIONS ARE FROM: COLUMN GRID LINE, FACE OF CMU WALL, FINISH FACE OF METAL STUD WALL, AND FACE OF PRECAST CONCRETE WALL PANEL, UNLESS NOTED OTHERWISE.

COLOR AND MATERIAL LEGEND

CODE	TYPE	FINISH DETAILS	COMMENTS	CONTACT
FLOORING				
SV-1	SHEET VINYL	MANF: TEKNOFLOR STYLE: FLORESTCAPES COLOR: 9209 FRUITWOOD THICKNESS: 2.3MM NOTE: MATCHING HEAT WELD	MATCH EXISTING FLOOR. PATCH AND REPAIR AS REQUIRED.	LISA MCNEIL 816-910-4404 LMCNEIL@TEKNOFLOR.COM
BASE				
RB-1	WALL BASE	MANF: MATCH EXISTING	MATCH EXISTING WALL BASE. PATCH AND REPAIR AS REQUIRED.	
WALL				
PT-1	MAIN WALL PAINT	MANF: SHERWIN WILLIAMS COLOR: MATCH EXISTING	MATCH EXISTING WALL PAINT COLOR AND FINISH. PATCH AND REPAIR AS REQUIRED.	PETER KREMM 303-902-7239 PETER.KREMM@SWERWIN.COM
PT-2	WALL PAINT	MANF: SHERWIN WILLIAMS COLOR: SW616 KILM BEIGE	MATCH EXISTING WALL PAINT COLOR AND FINISH. PATCH AND REPAIR AS REQUIRED.	PETER KREMM 303-902-7239 PETER.KREMM@SWERWIN.COM
DOORS				
DR-1	SLIDING DOORS	MANF: 3FORM STYLE: 100.06 SLIDE 05 INSERT: 3/8" VARIA - FAIRY TALE + IVORY E04 - AVALANCHE D01 (BACK) FINISH FRONT: SANDSTONE F01 FINISH BACK: SANDSTONE D01 DIM: 48" W X 108" H DOOR PANELS - 4 TOTAL	FIELD MEASURE PRIOR TO ORDER	BRAD ANTISDEL 801-461-9887 BRAD.ANTISDEL@3FORM.COM
MILLWORK				
PLAM-1	PLASTIC LAMINATE	MANF: FRONITE COLOR: SPICE WALNUT WW561 FINISH: TEXTURED/SUEDE EDGE: 3MM PFG MATCHING EDGE/BAND NOTE: GRAIN TO INSTALL VERTICAL	MATCH EXISTING	SHEILA LARSON 816-536-6575 SHEILA.LARSON@PANOLAM.COM
CEILING				
ACT-2	ACOUSTIC TILE CEILING	MANF: ARMSTRONG STYLE: MESA SQUARE LAY-IN 680 COLOR: WHITE SIZE: 24" X 24"	MATCH EXISTING. REPLACE TILE AS REQUIRED	ELIZABETH MOON 816-215-2890 EMOON@ARMSTRONGCEILING.COM
WALL PROTECTION				
CG-1	CORNER GUARD	MANF: INPRO STYLE: 150 COLOR: 0204 CHAMDIS HEIGHT: 7'-2" OR MATCH EXISTING WINGS: 3" OR MATCH EXISTING	MATCH EXISTING STYLE, COLOR, AND HEIGHT. INSTALL ABOVE WALL BASE	JULIE CULVER 800-222-5556 X5332 JULIVER@INPROCORP.COM



PLAN
PARTIAL DEMOLITION / INFECTION CONTROL PLAN - LEVEL 1
A-110
 0 4' 8' 12'
 SCALE IN

DEMOLITION PLAN KEYED NOTES:

- 1 REMOVE SLIDING WOOD DOORS AND OVERHEAD TRACK.
- 2 REMOVE PORTION OF METAL STUD AND GYPSUM BOARD WALL FROM FINISHED FLOOR TO 9'-0" AFF.
- 3 REMOVE PORTION OF PLASTIC LAMINATE COUNTERTOP.
- 4 REMOVE PORTION OF GROUT IN EXISTING EQUIPMENT PIT AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT AND ASSOCIATED UTILITIES.
- 5 EXISTING CHILLED WATER TROUGH TO REMAIN.
- 6 WALL MOUNTED RELAY JUNCTION BOX TO REMAIN.
- 7 EXISTING ELECTRICAL PULL BOX RECESSED INTO FLOOR TO REMAIN.
- 8 SAW CUT AND GRIND SMOOTH 2"X2", 45 DEGREE CHAMFER AT EDGE OF EXISTING CONCRETE PIT. VERIFY OUT TO OUT OF CHAMFER DIMENSION IS 5'-10".
- 9 REMOVE PORTION OF EXISTING FLOORING AS REQUIRED TO ALLOW FOR CONSTRUCTION OF NEW EQUIPMENT PIT AND NEW UTILITY CONNECTIONS.
- 10 REMOVE WALL MOUNTED SHELF.
- 11 REMOVE PORTION OF GYPSUM WALL BOARD TO ALLOW FOR INSTALLATION OF NEW ELECTRICAL RECEPTACLE AND BLOCKING FOR WALL CABINETS.
- 12 PROP OPEN DOOR AND PROTECT IN-PLACE.
- 13 INSTALL TEMPORARY MODULAR WALLS AND MAINTAIN IN PLACE DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. TEMPORARY MODULAR WALLS ARE TO BE STARC SYSTEMS REALWALL OR EQUAL.
- 14 42" TEMPORARY MODULAR WALL DOOR PANEL.
- 15 54" TEMPORARY MODULAR WALL DOOR PANEL.
- 16 TEMPORARY MODULAR WALL NEGATIVE AIR PANEL WITH HEPA FILTER(S).

INFECTION CONTROL NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE TO CONFINE DUST AND DEBRIS TO WITHIN THE DUST PARTITION ENCLOSURE. THERE SHALL BE NO VISIBLE DUST OR DEBRIS OUTSIDE OF THE DUST PARTITIONED AREA. IF CONTRACTOR IS UNABLE TO MAINTAIN A DUST AND DEBRIS FREE AREA OUTSIDE OF DUST-PARTITION ENCLOSURE, MORE EXTENSIVE MEASURES WILL BE REQUIRED AT THE CONTRACTOR'S EXPENSE. THE FOLLOWING GENERAL NOTES FURTHER INDICATE REQUIRED MEASURES.
- 2. PRECUT MATERIALS FOR DUST PARTITIONS IN UNOCCUPIED AREAS.
- 3. DUST PARTITIONS ARE TO BE STARC SYSTEMS REALWALL TEMPORARY MODULAR OR EQUAL.
- 4. ALL AIR DUCT COVERS AND HVAC EQUIPMENT SEALS ARE TO REMAIN INTACT THROUGHOUT DUST GENERATING CONSTRUCTION. IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE OF ANY OBSERVED PENETRATIONS IN THE DUST COVERS OR BREAKS IN HVAC EQUIPMENT SEALS.
- 5. SEAL ALL HVAC RETURN INLETS IN WORK AREAS WITH PLASTIC SHEETING AND TAPE TO PREVENT CONTAMINANTS FROM ENTERING THE BUILDING'S AIR SYSTEM.
- 6. REFER TO "1. E.3 HEALTHCARE CONSTRUCTION GUIDELINE" IN THE SPECIFICATIONS FOR VENTILATION AND NEGATIVE AIR PRESSURE REQUIREMENTS AND CONTRACTOR INFECTION CONTROL TRAINING REQUIREMENTS.

GENERAL FLOOR PLAN DEMOLITION NOTES:

- 1. THE DEMOLITION PLAN OUTLINES THE SCOPE OF THE WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL ALSO REFER TO THE DRAWINGS FOR THE CONSTRUCTION OF THE NEW ADDITION FOR ADDITIONAL INFORMATION.
- 2. EXISTING CONDITIONS SHOWN ON DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT SHOW ALL CONDITIONS THAT MAY AFFECT THE WORK OF THIS CONTRACT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. REFER TO ALL ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION AND COORDINATION.
- 3. FIELD VERIFY EXISTING CONDITIONS BEFORE COMMENCING ANY WORK. ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES DETRIMENTAL TO THE PROPER EXECUTION OF NEW CONSTRUCTION.
- 4. ALL DEMOLITION WORK SHALL COMPLY WITH APPLICABLE BUILDING CODE AND ALL APPLICABLE STATE, AND FEDERAL LAWS, ORDINANCES, AND REGULATIONS. SEE CODE SUMMARY SHEET FOR APPLICABLE BUILDING CODE.
- 5. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. PROTECT ALL EXISTING CONSTRUCTION TO REMAIN THROUGHOUT CONSTRUCTION. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO THE SATISFACTION OF THE OWNER.
- 6. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN THE OWNER'S PROPERTY, DEMOLISHED MATERIALS SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE WITH FURTHER DISPOSITION AT THE CONTRACTOR'S OPTION. ALL DEMOLISHED MATERIALS SHALL BE LEGALLY DISPOSED OF PROMPTLY. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON SITE. NO BURNING IS ALLOWED.
- 7. EXISTING WALLS SHOWN GRAPHICALLY WITH SOLID LINES TO REMAIN. PROTECT ALL EXISTING CONSTRUCTION TO REMAIN AND PREPARE SURFACES TO RECEIVE NEW CONSTRUCTION OR FINISHES.
- 8. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
- 9. ALL WORK MUST BE COORDINATED WITH THE OWNER WITH REGARD TO SCHEDULE AND DISRUPTION OF BUSINESS OPERATIONS.
- 10. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT.
- 11. DO NOT INTERRUPT EXISTING UTILITIES. EXCEPT WHEN AUTHORIZED IN WRITING BY THE OWNER'S REPRESENTATIVE. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO GOVERNING AUTHORITIES.
- 12. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
- 13. PRIOR TO COMMENCEMENT WITH ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
- 14. CARE SHOULD BE MADE TO KEEP DUST AND NOISE FROM DEMOLITION ACTIVITIES FROM THE OTHER PORTIONS AND FLOORS OF THE BUILDING. ERECT AND MAINTAIN DUSTPROOF PARTITIONS. COVER AND PROTECT FURNITURE, FURNISHINGS AND EQUIPMENT THAT HAVE NOT BEEN REMOVED.
- 15. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDING AREAS TO REMAIN.
- 16. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE ADJOINING CONSTRUCTION TO REMAIN.
- 17. DRYWALL PARTITIONS: REMOVE GYPSUM BOARD, STEEL FRAMING, RUNNERS, TRACKS, ANCHORS AND FASTENERS, UNLESS OTHERWISE NOTED OR SHOWN. PATCH ANCHOR HOLES WHERE CEILING, WALLS, AND FLOORS ARE TO REMAIN.
- 18. CONTRACTOR SHALL COMPLY WITH ALL NECESSARY FIRE SAFETY REQUIREMENTS IN ACCORDANCE WITH 2021 IFC AND NFPA 13 AND LISTED ADOPTED STATE CODES.

no.	date	by	ckd	description
0	04/21/22	JAL	CLP	ISSUED FOR BID



MICHAEL M. MOSER
 ARCHITECT
 A-201109350

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 KANSAS CITY, MO 64114
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 MOCOA # - Architecture: 000889
 MOCOA # - Engineering: 000165
 MOCOA # - Landscape: 2016016502

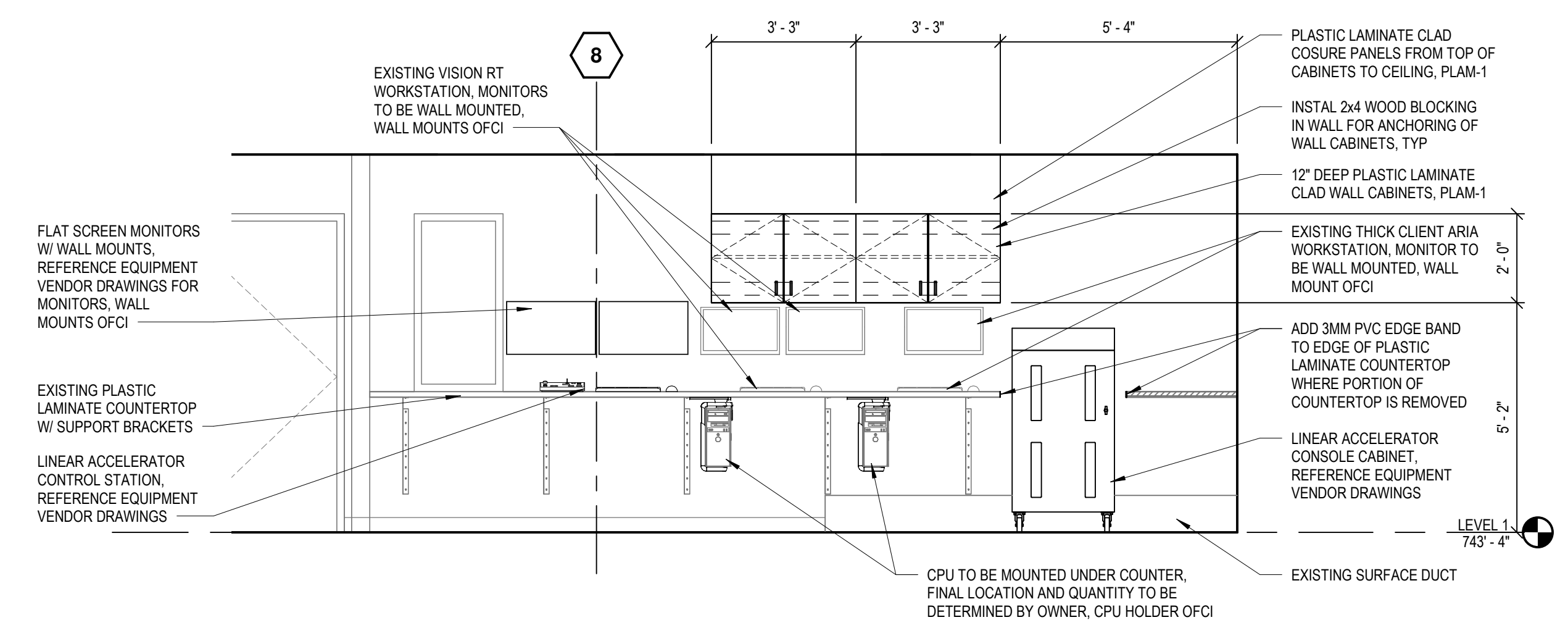
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04/21/22	J. LOTT
designed	checked
J. LOTT	C. PRICE

PATIENT CARE TOWER - T1251 LINEAR ACCELERATOR REPLACEMENT MU Project # CP212451
 MU Healthcare - University Hospital
 1 Hospital Drive, Columbia, MO 65212
 Contract Title: Patient Care Tower - T1251
 Linear Accelerator Replacement
 MU Project # CP212451
 UNIVERSITY OF MISSOURI - COLUMBIA
 FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

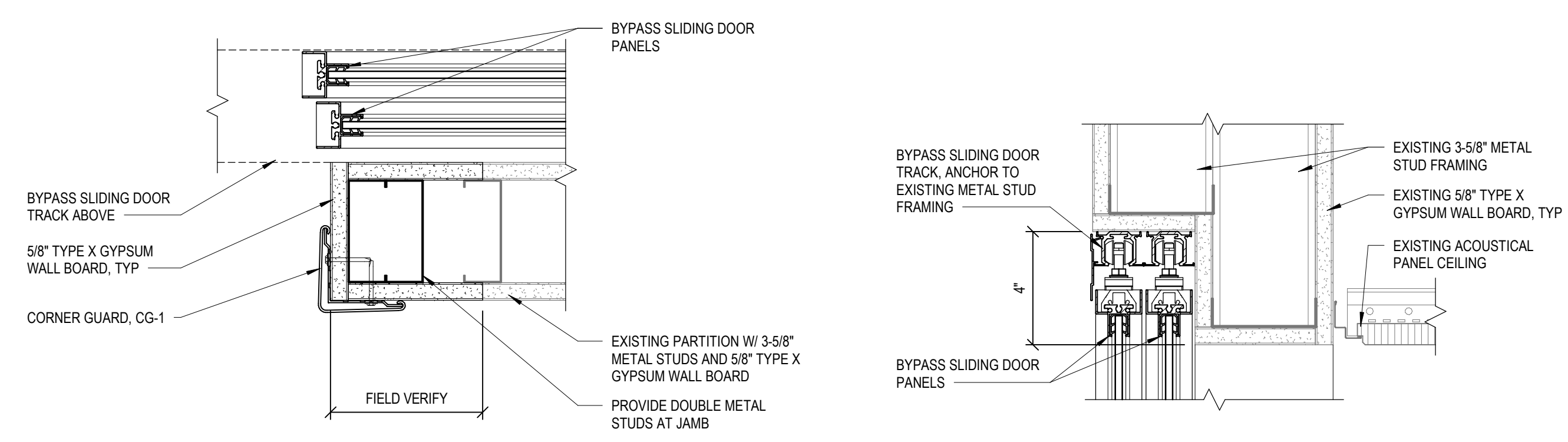
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137998	CP212451
drawing	rev.
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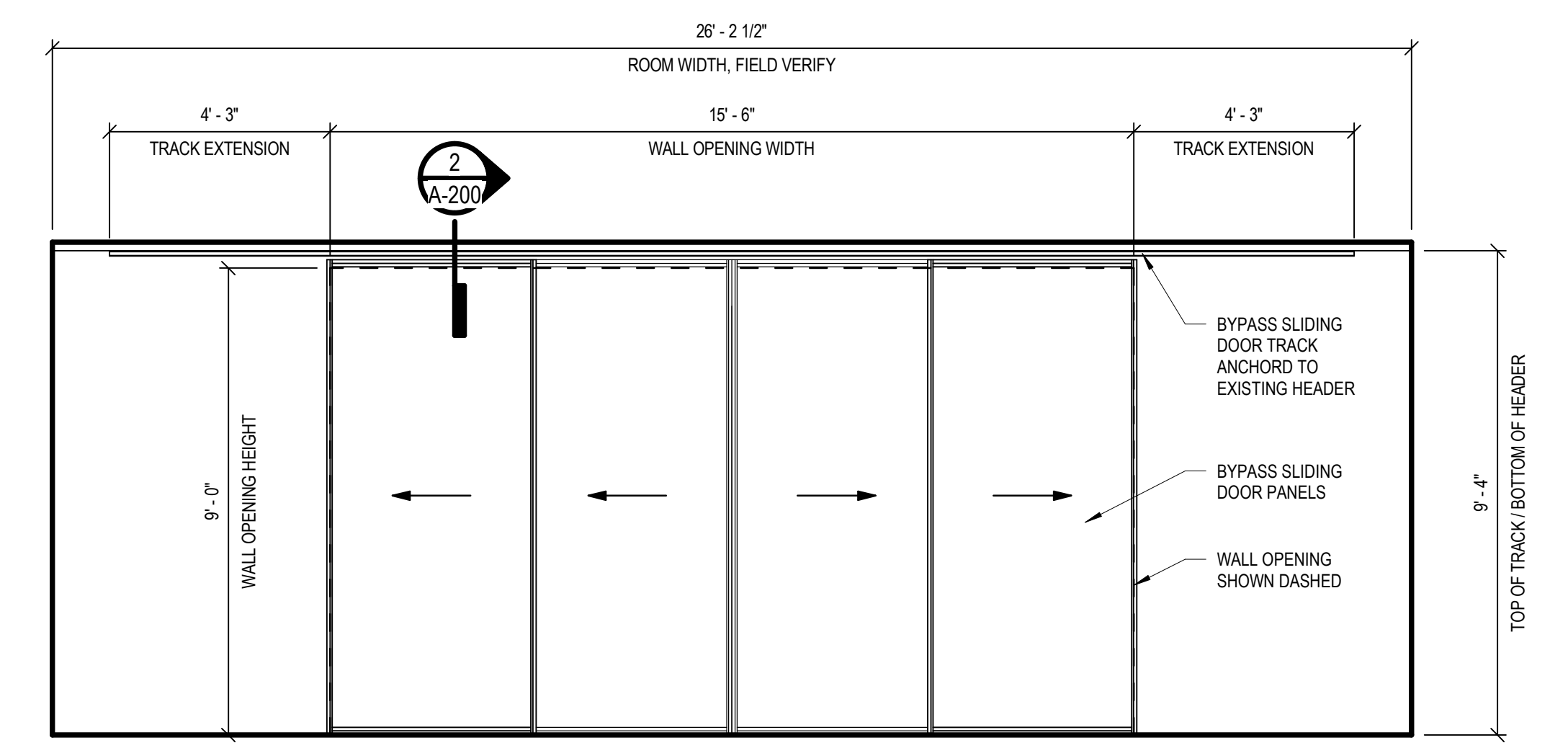


ELEVATION
CONTROL PT1250 - SOUTH
 SCALE IN



DETAIL
JAMB @ SLIDING DOOR OPENING
 SCALE IN

DETAIL
BYPASS SLIDING DOOR HEAD
 SCALE IN



ELEVATION
BYPASS SLIDING DOOR ELEVATION
 SCALE IN



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ELEVATIONS & DETAILS

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MECHANICAL ABBREVIATIONS

12"Ø	ROUND DUCT DIMENSION	ER	EXHAUST REGISTER
24x12	RECTANGULAR DUCT DIMENSION (INCHES)	ESP	EXTERNAL STATIC PRESSURE
ACU	AIR CONDITIONING UNIT	EWT	ENTERING WATER TEMPERATURE
AFF	ABOVE FINISHED FLOOR	EXIST	EXISTING
AHU	AIR HANDLING UNIT	LAT	LEAVING AIR TEMPERATURE
ARF	ABOVE RAISED FLOOR	LWT	LEAVING WATER TEMPERATURE
AS	AIR SEPARATOR	NC	NORMALLY CLOSED (FAIL POSITION)
BOD	BOTTOM OF DUCT	NO	NORMALLY OPEN (FAIL POSITION)
BOP	BOTTOM OF PIPE	OD	OVERFLOW DRAIN
CFM	CUBIC FEET PER MINUTE	PB	PARALLEL BLADE
CHR	CHILLED WATER RETURN	PCW	PROCESS COLD WATER
CHS	CHILLED WATER SUPPLY	PFX	PLATE AND FRAME HEAT EXCHANGER
CL	CENTER LINE OF PIPE ELEVATION	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
CONC	CONCENTRIC	PSIG	POUNDS PER SQUARE INCH GAUGE
CU	CONDENSING UNIT	RA	RETURN AIR
DB	DRY BULB	RED	REDUCER-REDUCING
DN	DOWN	SA	SUPPLY AIR
DRG	DIFFUSER, REGISTER, GRILLE	SCH	SCHEDULE
EA	EXHAUST AIR	SCR	SPRING RETURN CLOSED
EAT	ENTERING AIR TEMPERATURE	SR	SUPPLY REGISTER
EL	ELEVATION	TA	TRANSFER AIR
ELL	ELBOW	TOD	TOP OF DUCT
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	TOS	TOP OF STEEL
		V	VENT
		VFD	VARIABLE FREQUENCY DRIVE
		WB	WET BULB

PIPE SYMBOLS

┌	PIPE ELBOW
└	PIPE DOWN
┌	PIPE UP
┌	PIPE CONTINUATION

PIPELINE ABBREVIATIONS

CD	CONDENSATE DRAIN
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
D	DRAIN

PIPE LINE ACCESSORIES

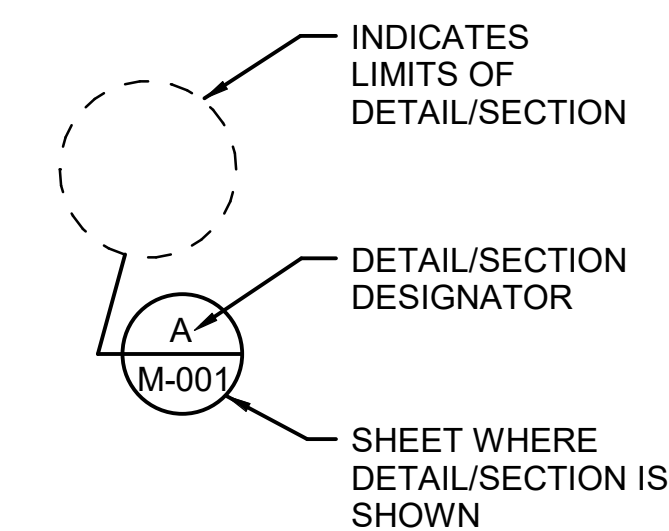
⊗	GATE VALVE
⊗	BUTTERFLY VALVE
⊗	CHECK VALVE
⊗	2-WAY VALVE
⊗	3-WAY VALVE
⊗	BALL VALVE
⊗	BALANCING VALVE / CIRCUIT SETTER
⊗	RELIEF, SAFETY OR THERMAL RELIEF VALVE
⊗	MOTORIZED CONTROL VALVE
⊗	HOSE GATE DRAIN VALVE
⊗	GLOBE VALVE
⊗	PLUG VALVE
⊗	ANGLE VALVE
⊗	AUTOMATIC AIR VENT ASSEMBLY
⊗	MANUAL AIR VENT ASSEMBLY - SEE SPECIFICATIONS FOR APPROPRIATE VALVE TYPE
⊗	FLEX CONNECTION

⊗	PUMP
⊗	THERMOMETER
⊗	PRESSURE GAUGE
⊗	Y-TYPE STRAINER
⊗	REMOVABLE CAP
⊗	REMOVABLE PLUG
⊗	REDUCER (CONCENTRIC)
⊗	UNION
⊗	BLIND FLANGE
⊗	TEST CONNECTION
⊗	PIPE WITH HEAT TRACE
▶	FLOW ARROW

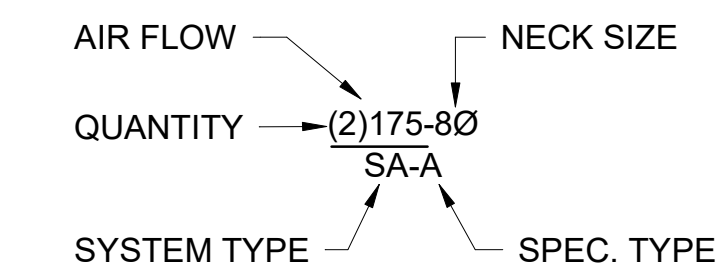
GENERAL NOTES:

- LEGEND IS GENERAL IN NATURE AND MAY INDICATE MORE INFORMATION THAN IS APPLICABLE TO PROJECT. SEE PLANS FOR SPECIFIC SYMBOLS AND ABBREVIATIONS.
- PROVIDE ALL MATERIALS, VALVES, HANGERS, ETC. AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
- INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
- UNLESS OTHERWISE INDICATED MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, CONDUITS, ETC., THROUGHOUT ACCESS ROUTES AND IN MECHANICAL ROOMS.
- LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, AND VALVING.
- VERIFY DIMENSIONS AND CONNECTION SIZE WITH FURNISHED EQUIPMENT.
- ALL ELEVATIONS ARE ABOVE FINISHED FLOOR TO BOTTOM OF DUCT, PIPE, OR PIPE INSULATION UNLESS NOTED OTHERWISE.
- DUCT DIMENSIONS INDICATED REFER TO SHEET METAL DIMENSIONS. SHEET METAL SIZE SHALL BE AIR OPENING DIMENSION PLUS THE THICKNESS OF ACOUSTICAL LINER WHERE LINER IS INSTALLED. WHERE LINER IS NOT INSTALLED, AIR OPENING SIZE AND SHEET METAL SIZE SHALL BE THE SAME.
- DUCT STATIC PRESSURE CLASSIFICATION: UNLESS OTHERWISE INDICATED, CONSTRUCT DUCTS ON THE DISCHARGE SIDE OF FANS AND VAV BOXES TO HAVE 1.0 IN. W.C. POSITIVE PRESSURE AND DUCTS ON THE INLET SIDE OF EQUIPMENT TO HAVE 1.0 IN. W.C. NEGATIVE PRESSURE CLASSIFICATIONS. DUCTS ON OUTLET SIDE OF AHUS SHALL HAVE 3.0 INCH POSITIVE PRESSURE CLASS DUCT.
- LOCATE TRANSFER AIR DUCTS AND OPENINGS 24" ABOVE HIGHEST CEILING ELEVATION UNLESS OTHERWISE NOTED.
- COORDINATE ALL WALL AND ROOF PENETRATIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS.
- INSTALL TEMPERATURE CONTROLS AT 48" ABOVE FINISHED FLOOR AND COORDINATE WITH OTHER DEVICES LOCATED ON WALLS. COORDINATE WITH ARCHITECTURAL WALL FINISHES.
- PROVIDE STRUCTURAL EQUIPMENT PADS IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND SPECIFICATIONS.
- [ALL EXISTING DUCTWORK SHOWN ON DRAWINGS IS SCHEMATIC AND ARE BASED ON EXISTING RECORD DRAWINGS PROVIDED BY THE OWNER AND DO NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL ACTUAL CONDITIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS, AND/OR CONNECTIONS.]
- CONTRACTOR SHALL AIR BALANCE ALL GRILLES TO CFMS SHOWN ON PLANS.

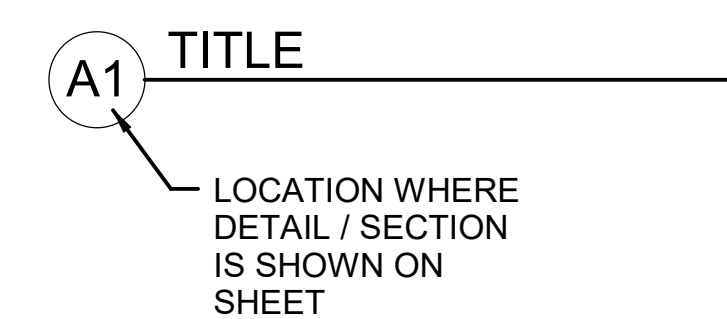
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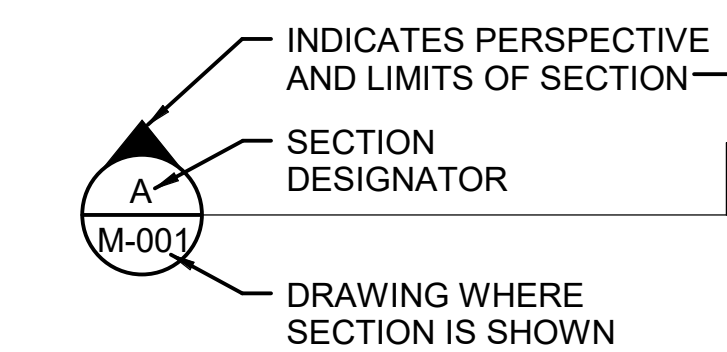
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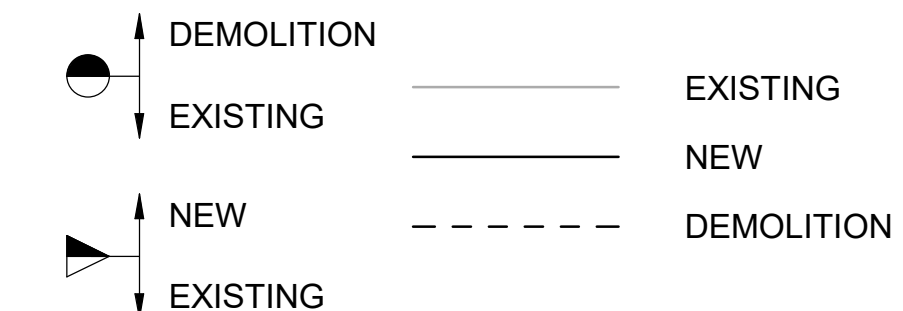
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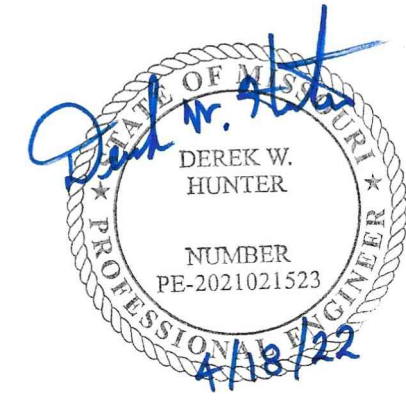
SECTION CUT SYMBOL



CONSTRUCTION INTERFACE



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0	04/21/22	SAH	DWH	ISSUED FOR BID



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MECHANICAL
PE-2021021523



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MOCa # - Architecture: 000089
MOCa # - Engineering: 000165
MOCa # - Landscape: 2016016502

date	detailed
04/21/22	SAH
designed	checked
DWH	DWH

PATIENT CARE TOWER - T1251 LINEAR ACCELERATOR REPLACEMENT
MU Project # CP212451

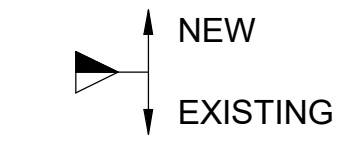
MU Healthcare - University Hospital
1 Hospital Drive, Columbia, MO 65212
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FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

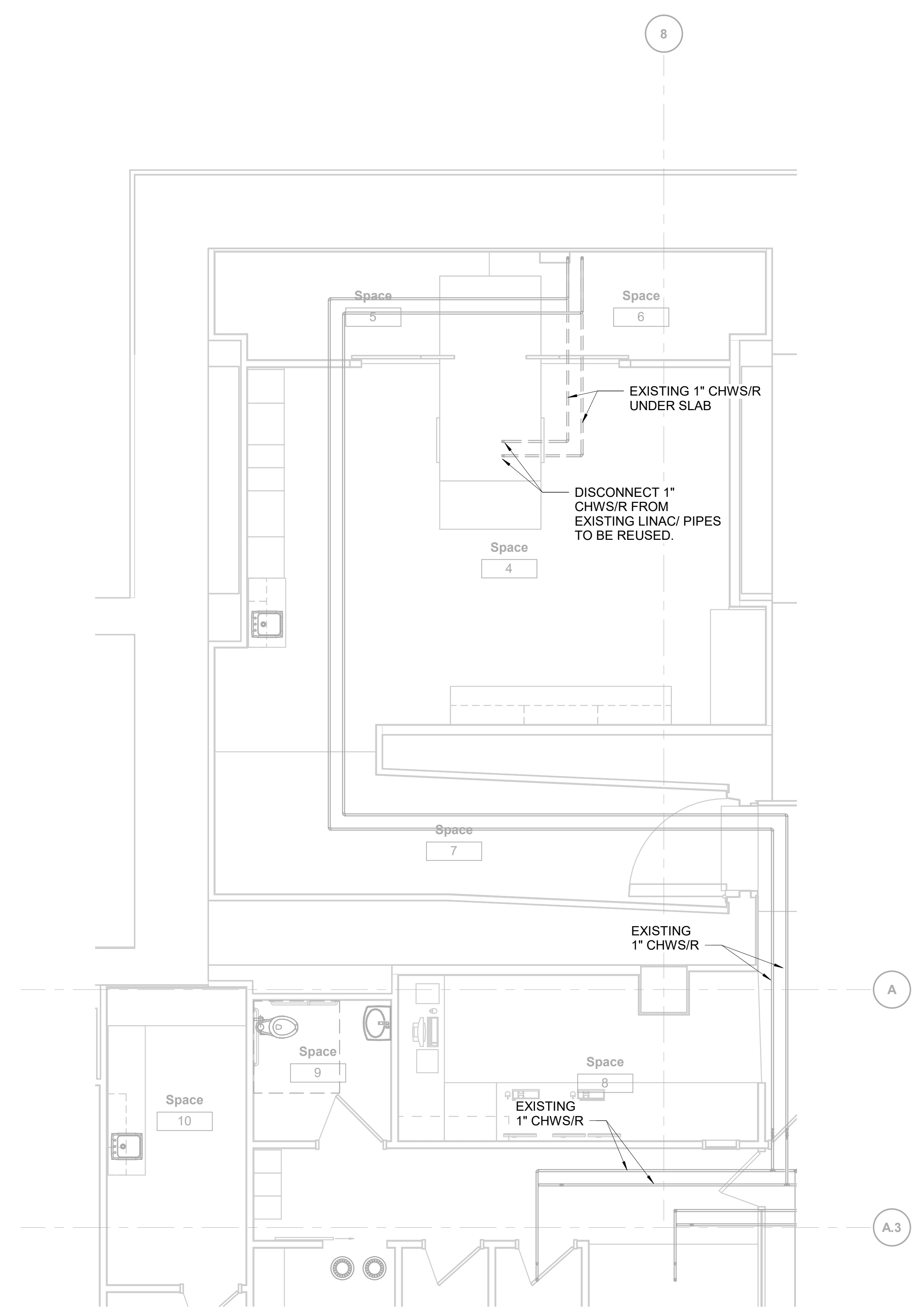
MECHANICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

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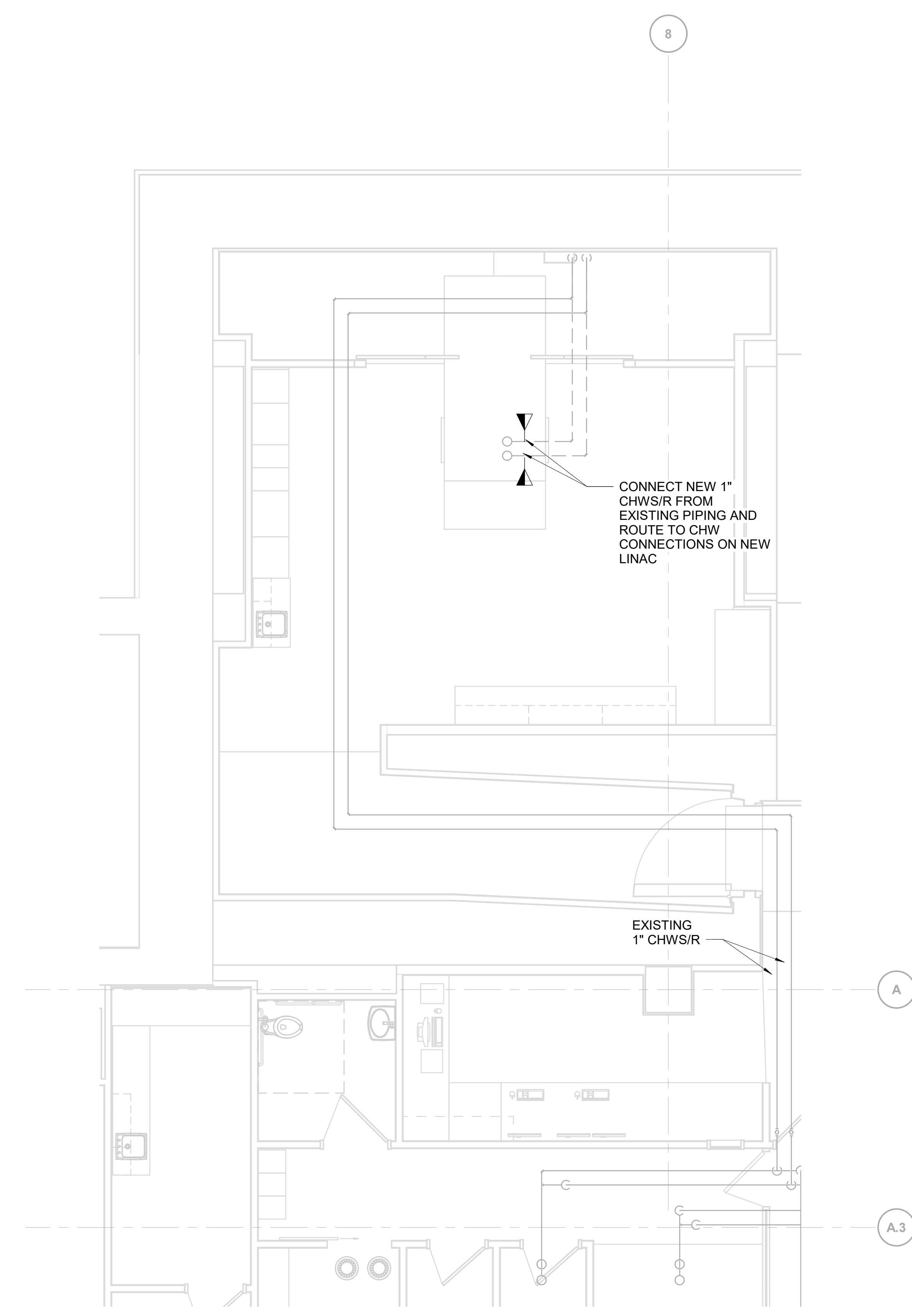
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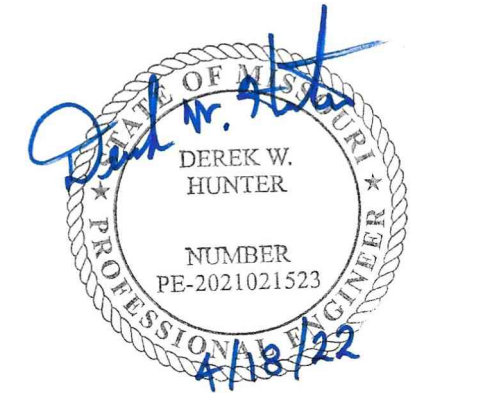
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LEVEL 1 PIPING PLAN - DEMOLITION
SCALE IN FEET



LEVEL 1 PIPING PLAN - NEW WORK
SCALE IN FEET



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designed	DWH	checked	DWH

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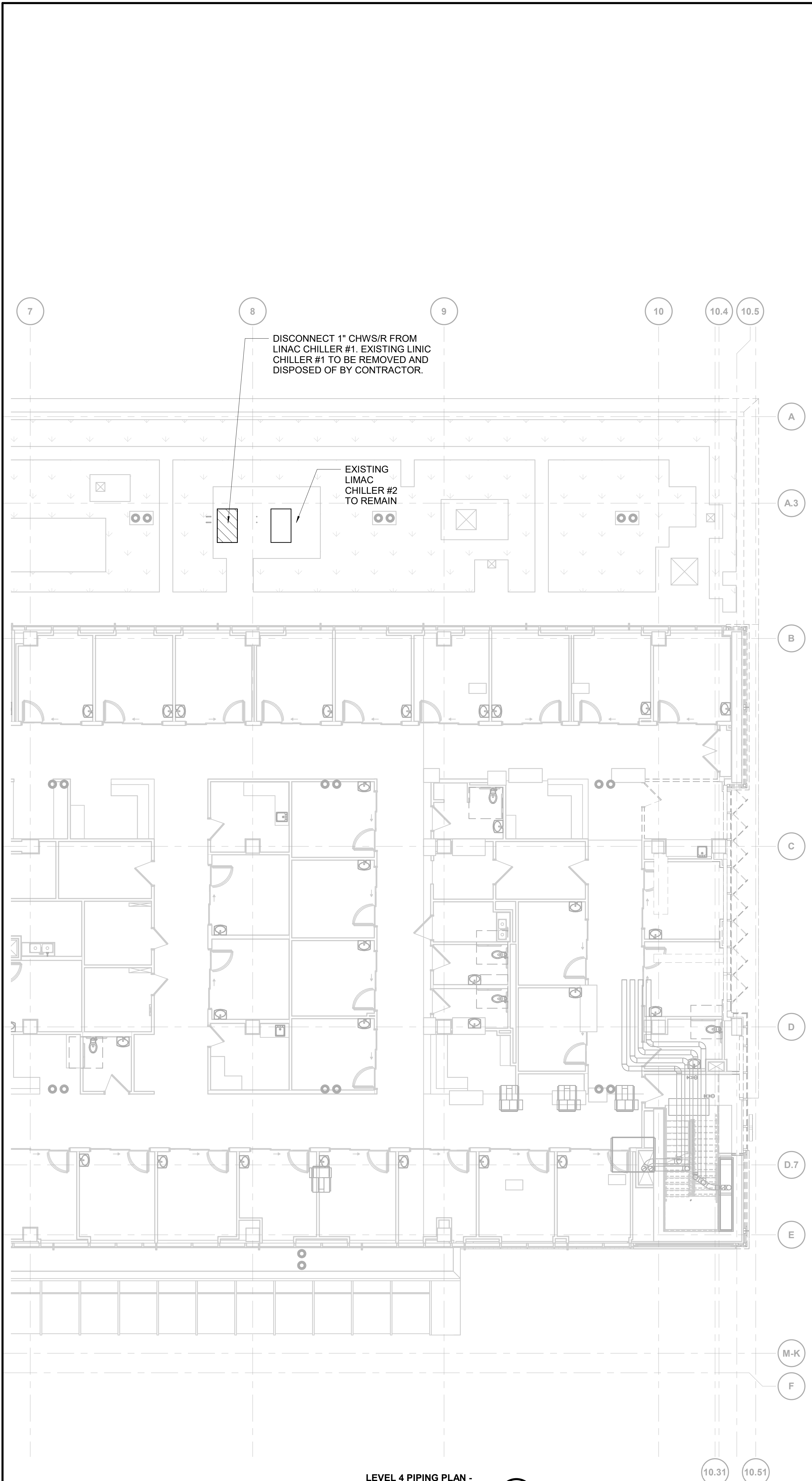
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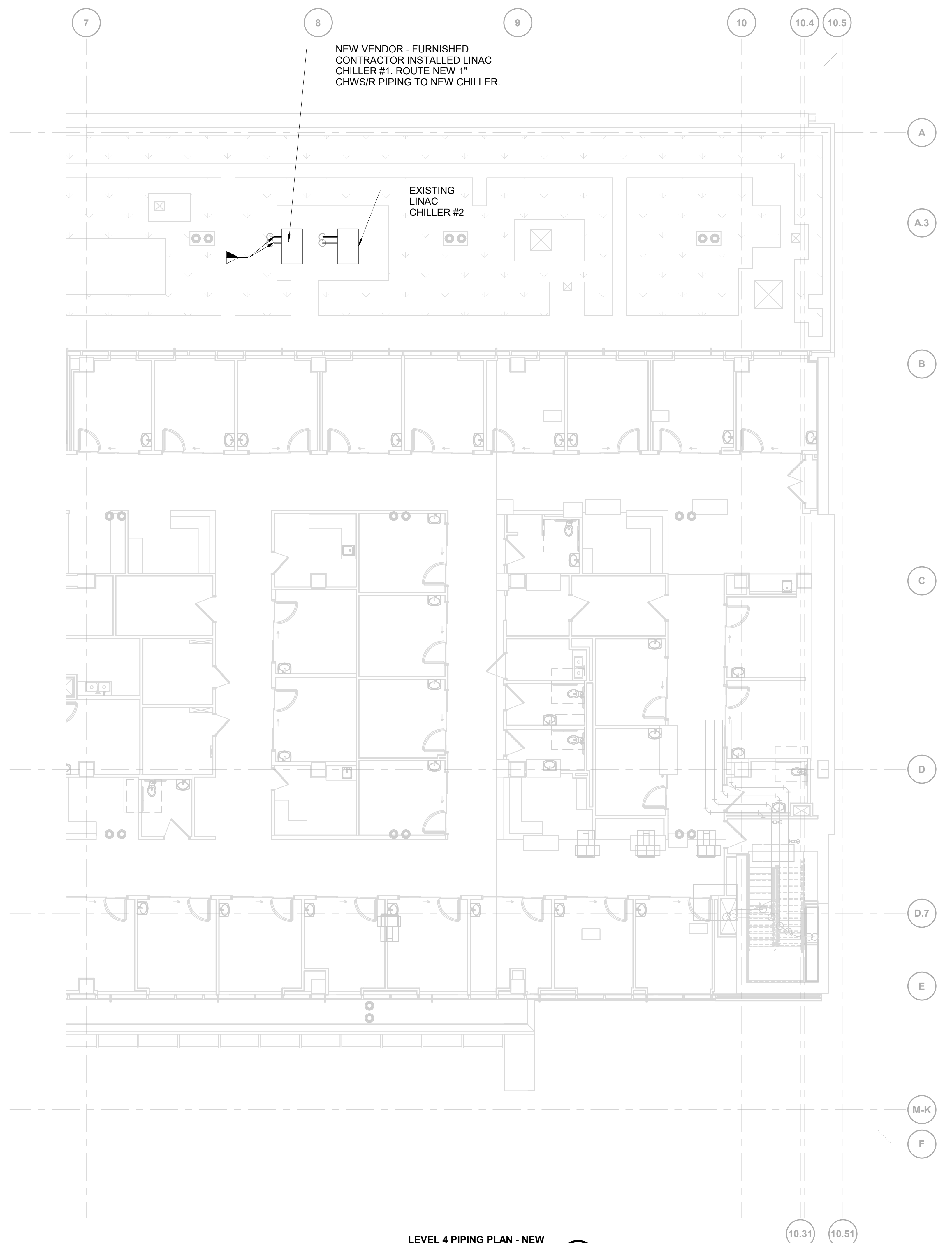
MECHANICAL PIPING - LEVE 1

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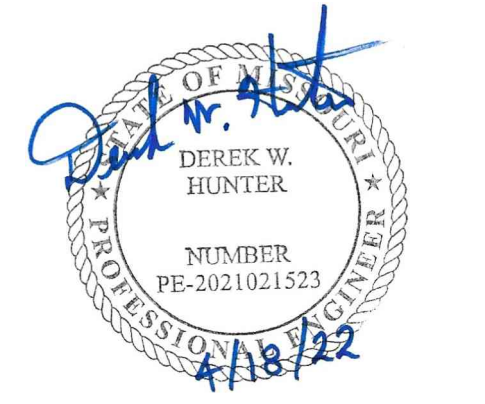


LEVEL 4 PIPING PLAN - DEMOLITION
 SCALE IN FEET
 0 4' 8' 16'



LEVEL 4 PIPING PLAN - NEW WORK
 SCALE IN FEET
 0 4' 8' 16'

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DEREK W. HUNTER
 MECHANICAL
 PE-2021021523

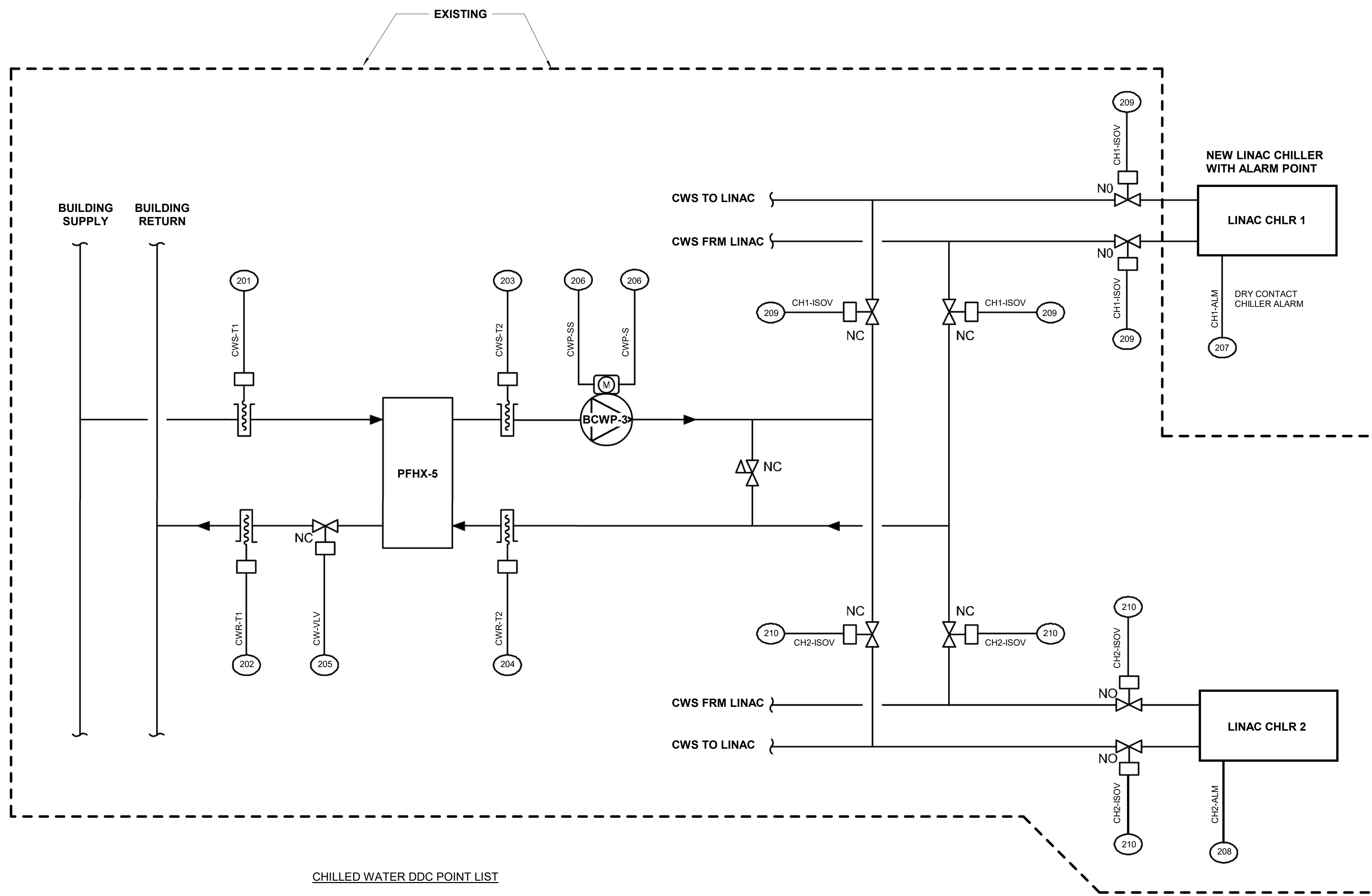
BURNS MEDONNELL
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 P: 816-333-9400
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designed	DWH	checked	DWH

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MECHANICAL PIPING - LEVEL 4

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drawing	M101 - 0	rev.	
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file	137998_M_CENTRAL		



CHILLED WATER DDC POINT LIST

TAG#	TYPE	POINT NAME	DESCRIPTION	DEVICE
201	AI	CWS-T1	BLDG CW SUPPLY TEMP	RTD/THERMOWELL/TRANSMITTER
202	AI	CWR-T1	BLDG CW RETURN TEMP	RTD/THERMOWELL/TRANSMITTER
203	AI	CWS-T2	CW SUPPLY TEMP	RTD/THERMOWELL/TRANSMITTER
204	AI	CWR-T2	CW RETURN TEMP	RTD/THERMOWELL/TRANSMITTER
205	AO	CW-VLV	CW VALVE	ELECT ACTUATOR W/ SPRG RTN
206	BI	CWP-S	CW PUMP	CURRENT SWITCH
207	BI	CH1-ALM	CHILLER 1 ALARM	CHILLER PANEL
208	BI	CH2-ALM	CHILLER 2 ALARM	CHILLER PANEL
209	BO	CH1-ISOV	CHILLER 1 ISOLATION VALVES	ELECT ACTUATOR W/SPRING RTN (3)
210	BO	CH2-ISOV	CHILLER 2 ISOLATION VALVES	ELECT ACTUATOR W/SPRING RTN (3)

no.	date	by	ckd	description
0	04/21/22	SAH	DWH	ISSUED FOR BID



DEREK W. HUNTER
MECHANICAL
PE-2021021523



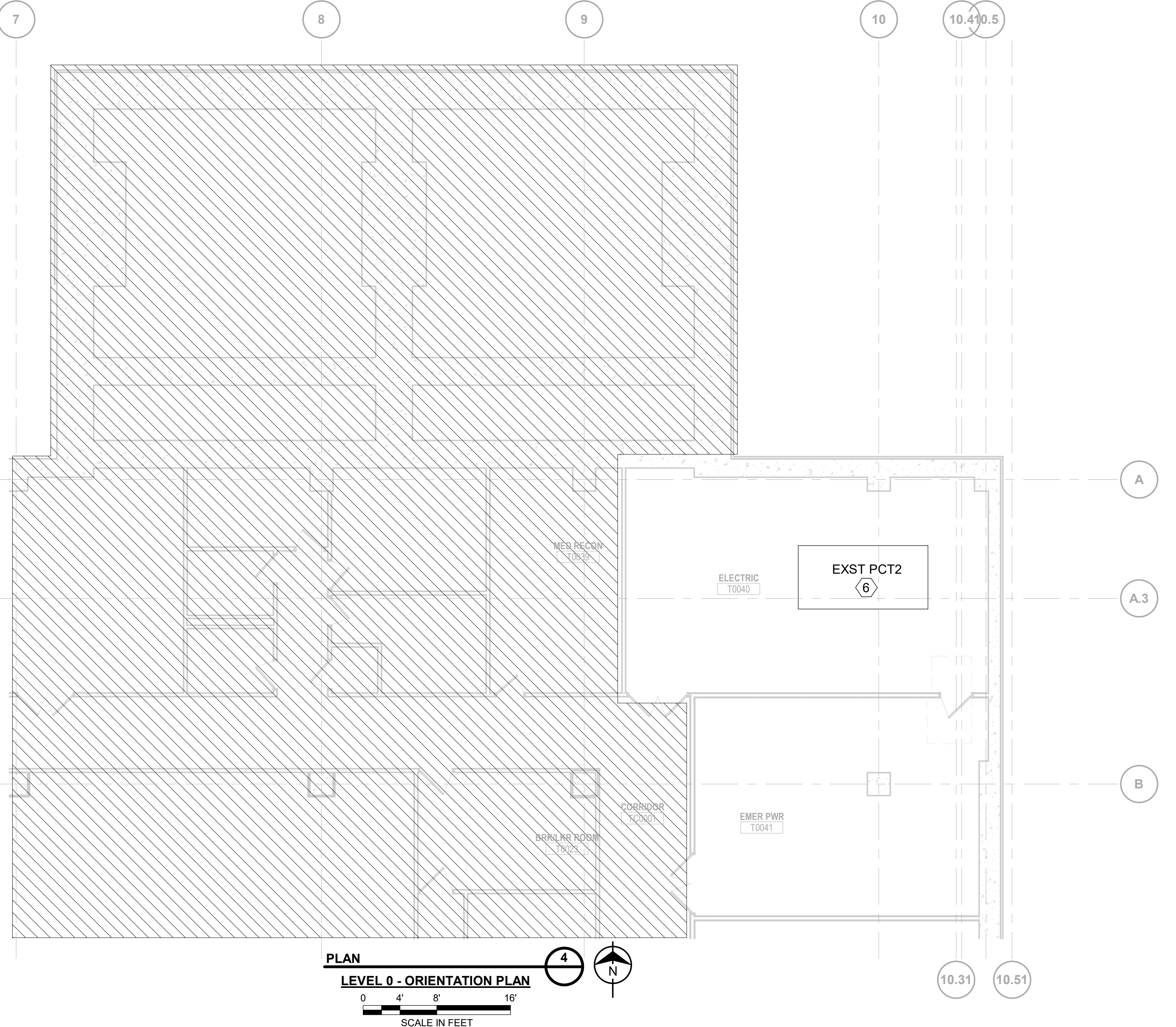
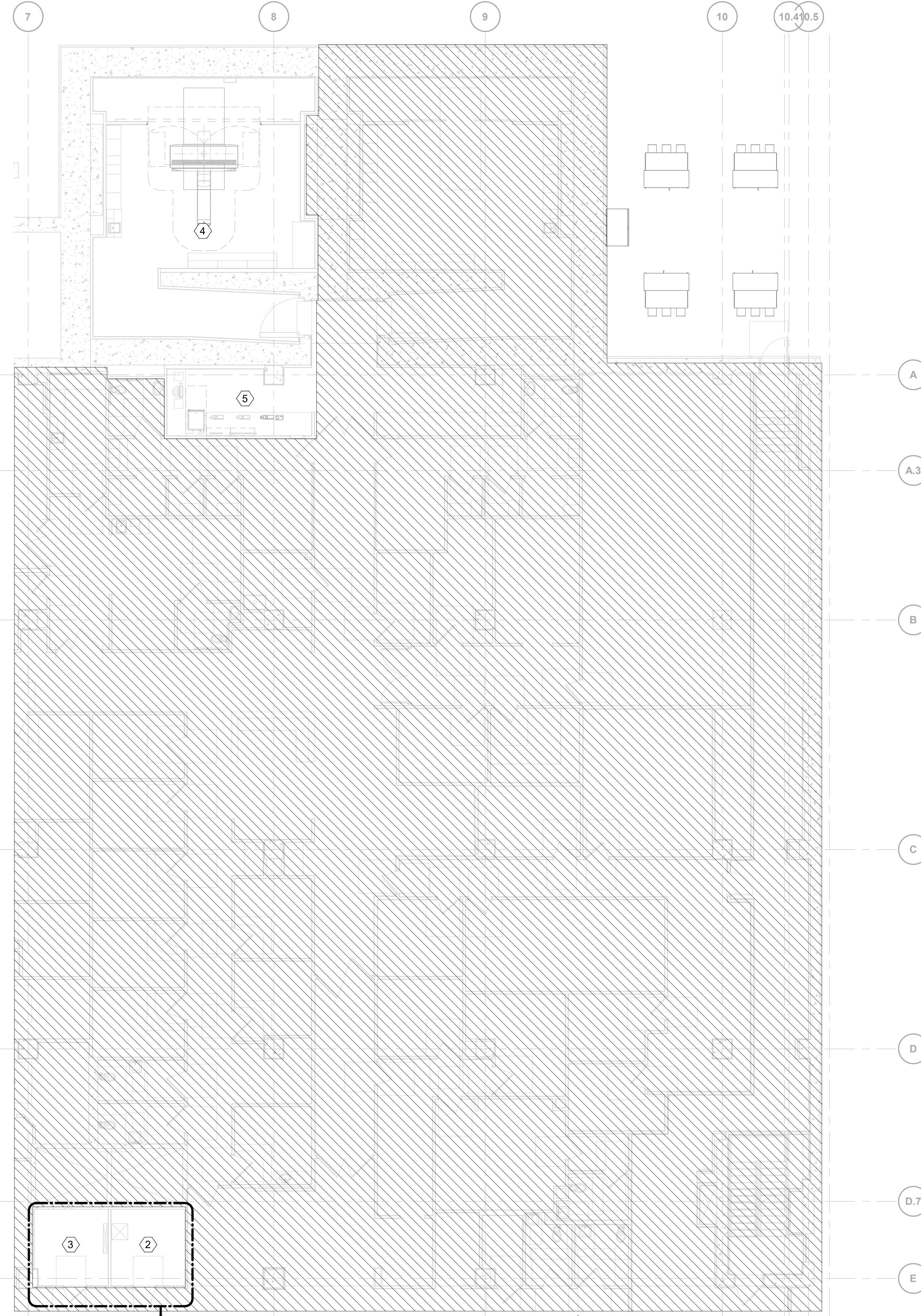
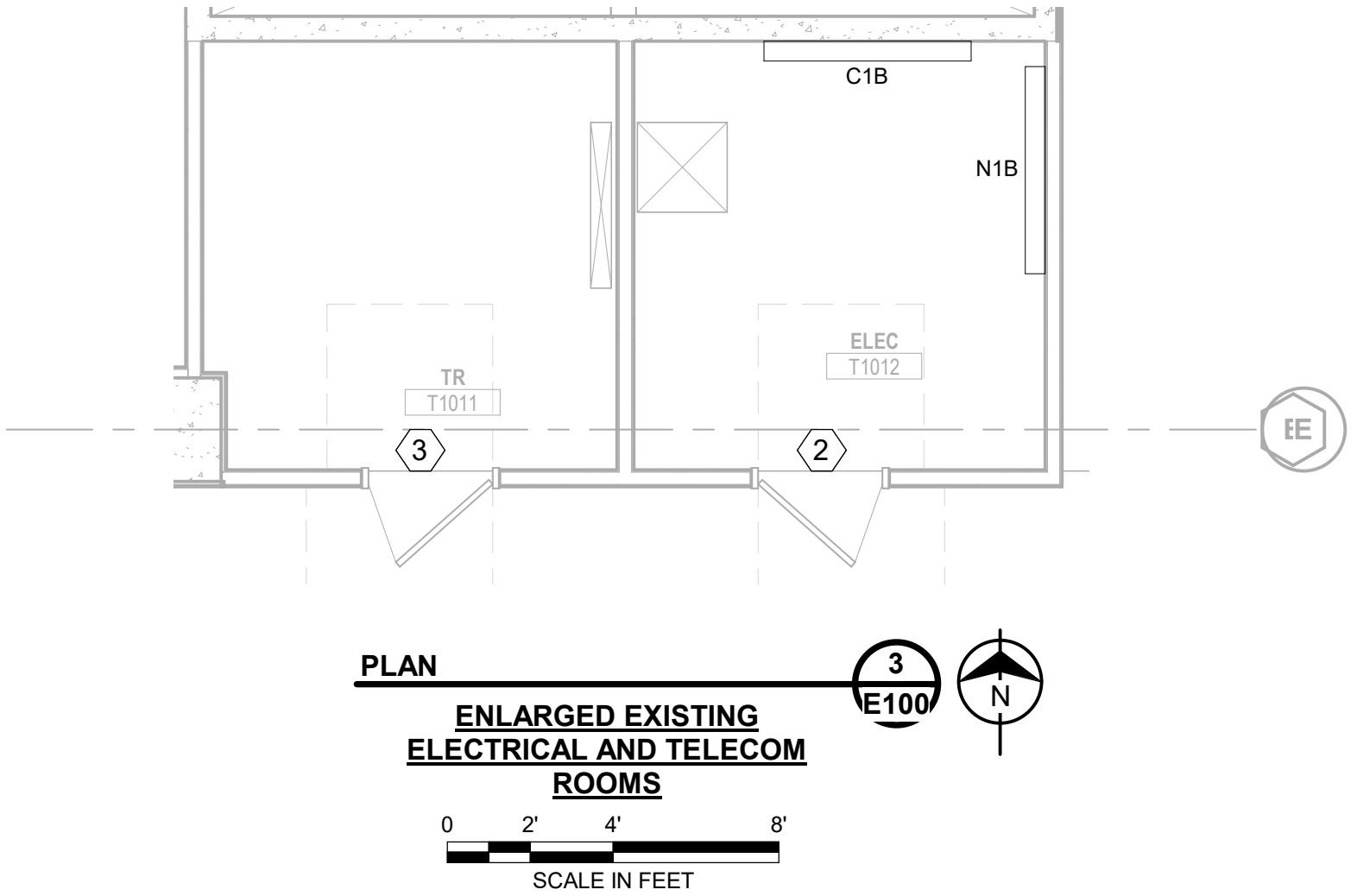
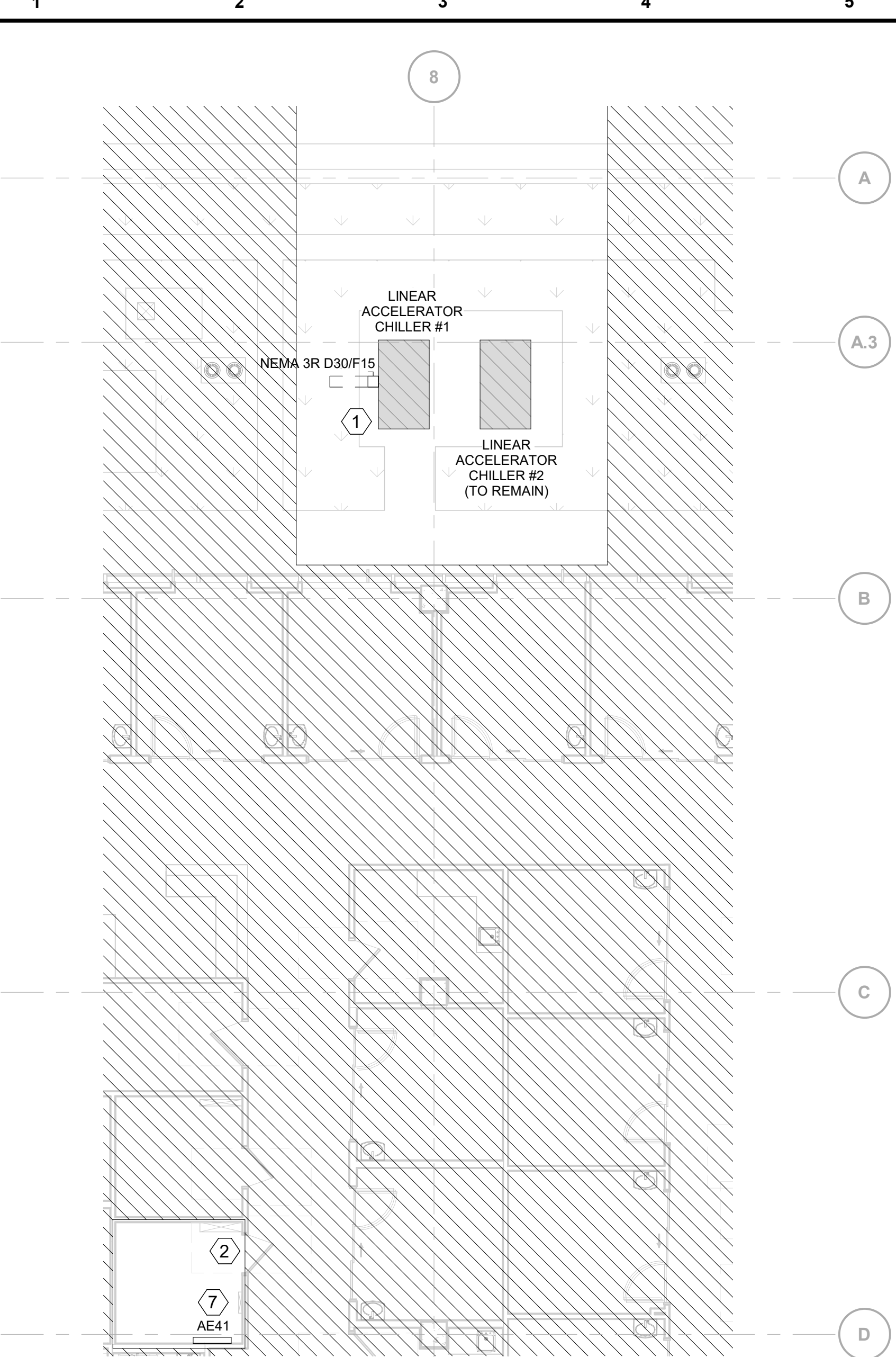
9400 WARD PARKWAY
KANSAS CITY, MO 64114
P: 816-333-9400
MOCOA # - Architecture: 000089
MOCOA # - Engineering: 000165
MOCOA # - Landscape: 2016016502

date	detailed
04/21/22	SAH
designed	checked
DWH	DWH

PATIENT CARE TOWER - T1251 LINEAR ACCELERATOR REPLACEMENT
MU Project # CP212451
MU Healthcare - University Hospital
1 Hospital Drive, Columbia, MO 65212
Contract Title: Patient Care Tower - T1251
Linear Accelerator Replacement
MU Project # CP212451
UNIVERSITY OF MISSOURI - COLUMBIA
FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

CONTROLS & DETAILS

project	contract	
137998	CP212451	
drawing	rev.	
M500	0	
sheet	of	sheets
file	137998_M_CENTRAL	



- KEYED NOTES:** (#)
1. DEMOLISH EXISTING TRANSFORMER AND DISCONNECT SERVING EXISTING LINEAR ACCELERATOR CHILLER. EXISTING LINEAR ACCELERATOR CHILLER TO BE REPLACED. PROVIDE A NEW FUSED DISCONNECT. RECONNECT EXISTING CONDUCTORS TO NEW FUSED DISCONNECT TO SERVE NEW EQUIPMENT.
 2. EXISTING PATIENT CARE TOWER (PCT) ELECTRICAL ROOM. ALL EQUIPMENT IS EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.
 3. EXISTING PATIENT CARE TOWER (PCT) TELECOM ROOM. ALL EQUIPMENT IS EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.
 4. LINEAR ACCELERATOR ROOM.
 5. LINEAR ACCELERATOR CONTROL ROOM.
 6. EXISTING ELECTRICAL ROOM ON LEVEL 0 BELOW LINEAR ACCELERATOR SUITE SERVING NEW LINEAR ACCELERATOR EQUIPMENT.
 7. EXISTING PANEL AE41 SERVING NEW LINEAR ACCELERATOR CHILLER.

- GENERAL NOTES:**
- A. SEE DRAWINGS E001 AND E002 FOR ELECTRICAL SYMBOLS LEGEND, NOTES, AND ABBREVIATIONS.
 - B. UNLESS OTHERWISE NOTED, LIGHT LINEWEIGHT INDICATES EXISTING ELECTRICAL EQUIPMENT TO REMAIN. HEAVY LINEWEIGHT INDICATES ELECTRICAL EQUIPMENT AND DEVICES TO BE FURNISHED AND INSTALLED.
 - C. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING EQUIPMENT PRIOR TO COMMENCING WORK.
 - D. DEMOLITION AND INSTALLATION OF ANY BUILDING UTILITIES SERVING THE EXISTING OR NEW LINEAR ACCELERATOR SHALL BE BY THE CONTRACTOR. THE EXISTING CHILLER AND POWER CONDITIONING UNIT SHALL BE DEMOLISHED BY THE CONTRACTOR AND THE INSTALLATION OF THE NEW CHILLER AND POWER CONDITIONING UNIT SHALL BE INSTALLED BY THE CONTRACTOR. THE MEDICAL EQUIPMENT VENDOR SHALL DEMOLISH THE EXISTING LINEAR ACCELERATOR EQUIPMENT INCLUDING BUT NOT LIMITED TO THE LINEAR ACCELERATOR TABLE, GANTRY, CONSOLE CABINET, ACCESSORIES, AND CABLING THAT TIES INTO THE LINEAR ACCELERATOR UNIT.

no.	date	by	ckd	description
0	04/21/22	CPC	ELP	ISSUED FOR BID



ERIC L. PERRY
PROFESSIONAL ENGINEER
PE-2021015034

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MOCaA # - Architecture: 000089
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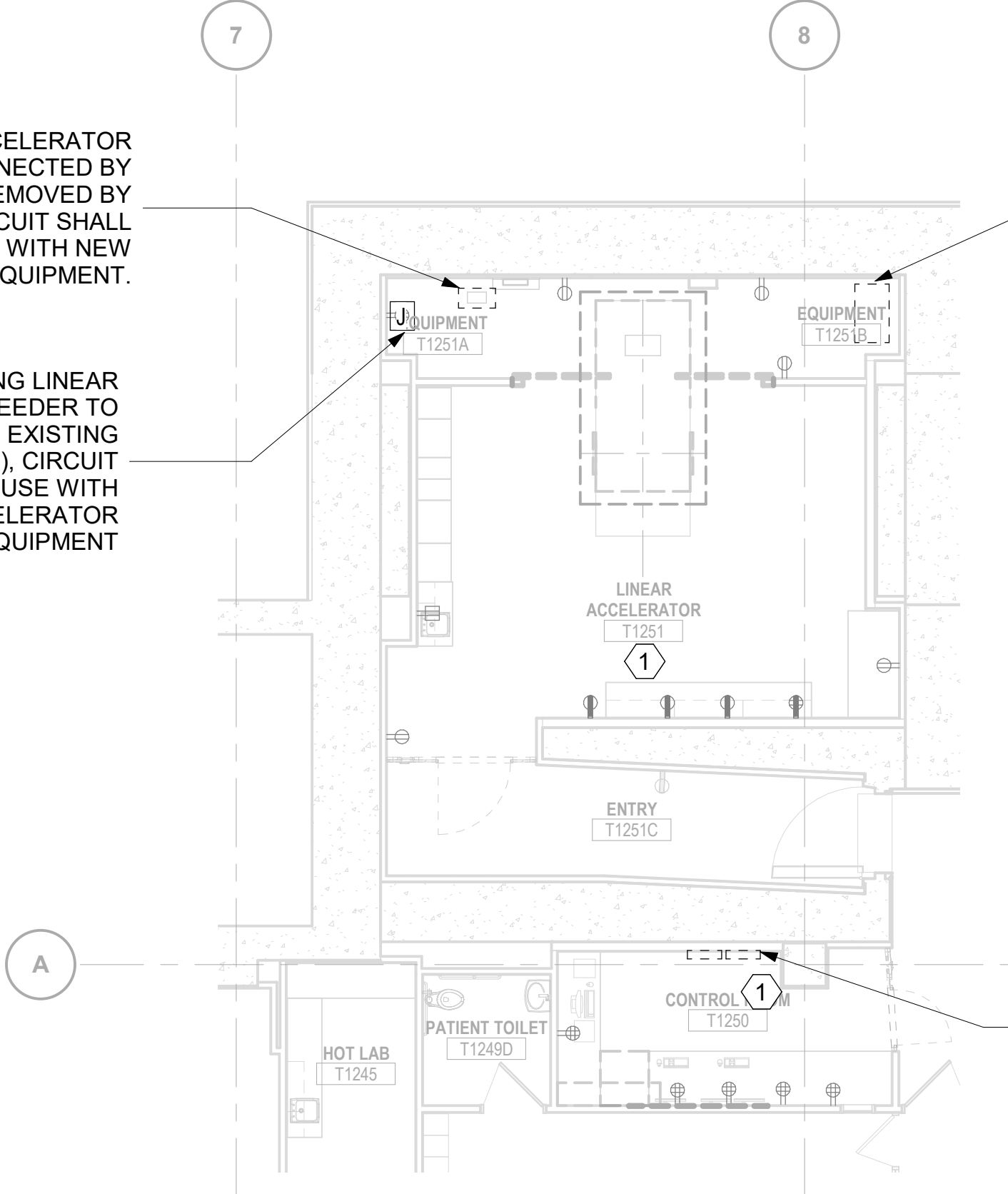
date	detailed
04/21/22	CPC
designed	checked
CPC	ELP

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project	contract	
137998	CP212451	
drawing	rev.	
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EXISTING LINEAR ACCELERATOR CABINET TO BE DISCONNECTED BY CONTRACTOR AND REMOVED BY OTHERS. EXISTING CIRCUIT SHALL REMAIN FOR RE-USE WITH NEW LINEAR ACCELERATOR EQUIPMENT.

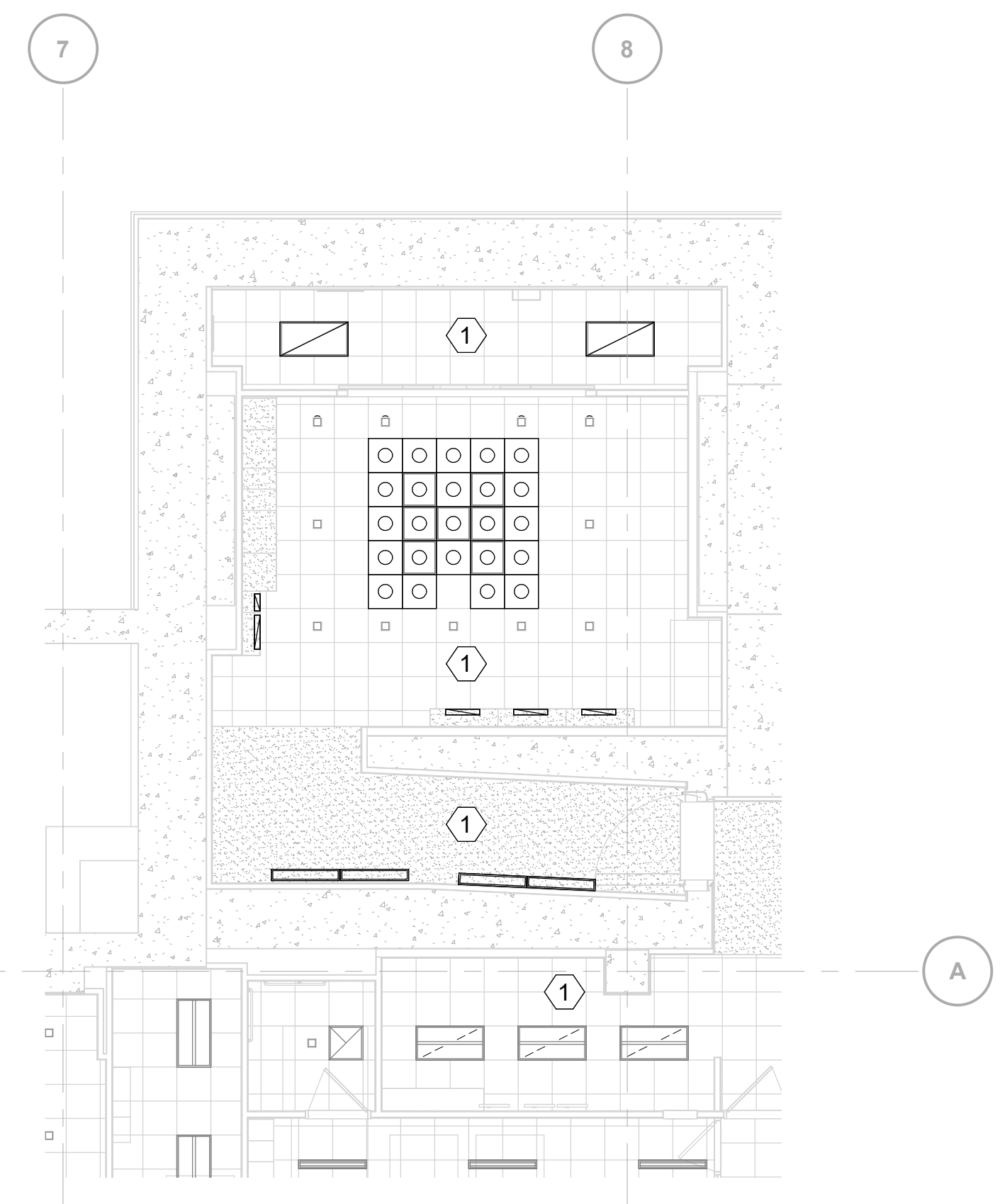
FIELD VERIFY EXISTING LINEAR ACCELERATOR 480V FEEDER TO JUNCTION BOX TO REMAIN. EXISTING 300A (3#2/0 #2G IN 2" C). CIRCUIT SHALL REMAIN FOR RE-USE WITH NEW LINEAR ACCELERATOR EQUIPMENT



PLAN
LINEAR ACCELERATOR ROOM - EXISTING PLAN
SCALE IN
0 4' 8' 12'

EXISTING PLAN - KEYED NOTES:

- RECEPTACLE DEVICES IN THIS AREA ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.



PLAN
LINEAR ACCELERATOR ROOM - LIGHTING PLAN
SCALE IN
0 4' 8' 12'

LIGHTING PLAN - KEYED NOTES:

- ALL LIGHTING IS EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.

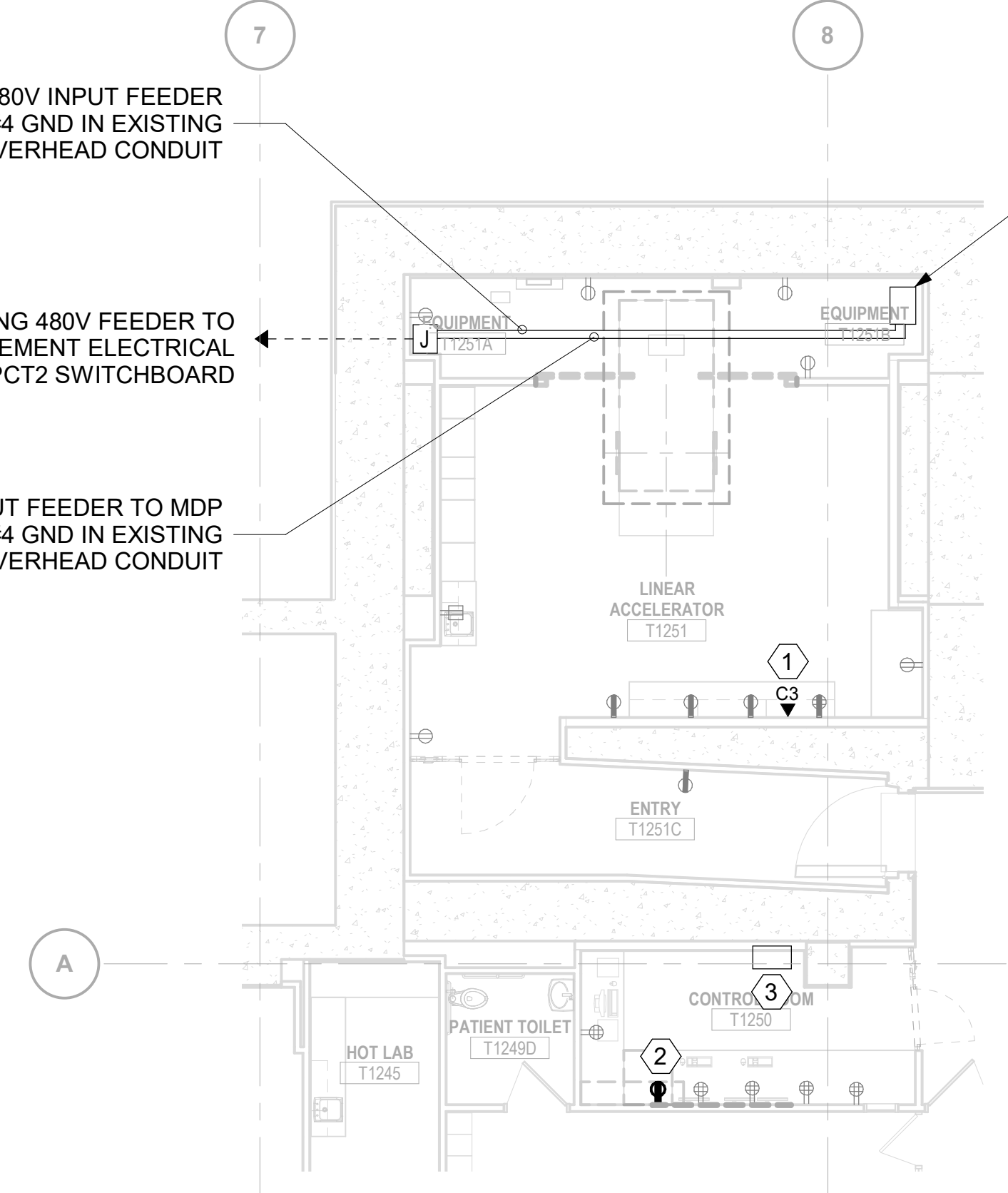
EXISTING POWER CONDITIONING UNIT (PCU) TO BE DEMOLISHED. EXISTING CONDUITS AND WIRE SHALL REMAIN FOR RE-USE WITH NEW PCU.

EXISTING LINEAR ACCELERATOR MAIN CIRCUIT BREAKERS TO BE DISCONNECTED BY CONTRACTOR AND REMOVED BY OTHERS. EXISTING CONDUIT SHALL REMAIN FOR RE-USE WITH NEW LINEAR ACCELERATOR EQUIPMENT. REMOVE 208V AND 480V WIRE BACK TO JUNCTION BOX

PCU 480V INPUT FEEDER 3#4 & 1#4 GND IN EXISTING OVERHEAD CONDUIT

EXISTING 480V FEEDER TO BASEMENT ELECTRICAL PCT2 SWITCHBOARD

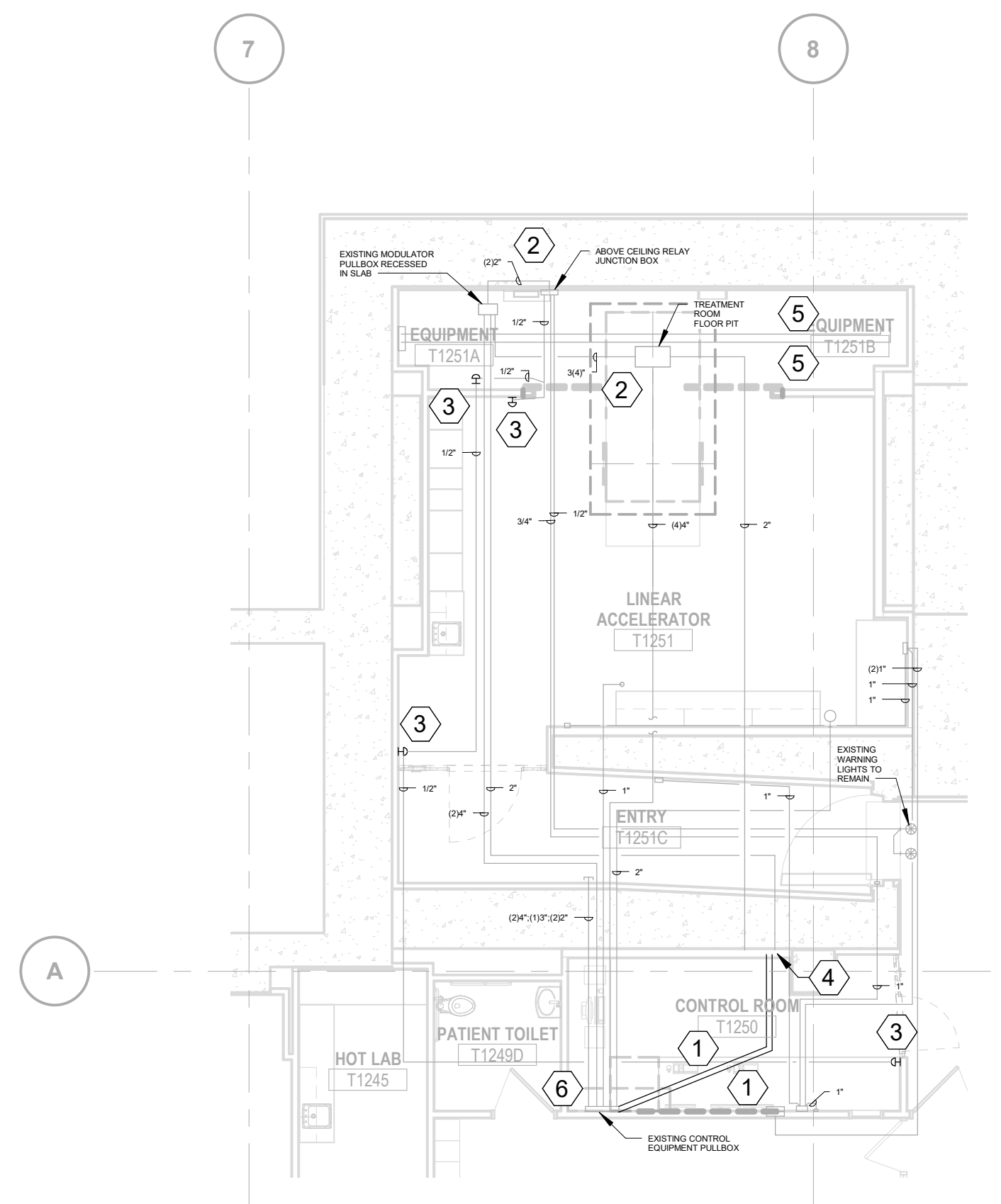
PCU 480V OUTPUT FEEDER TO MDP 3#4 & 1#4 GND IN EXISTING OVERHEAD CONDUIT



DETAIL
LINEAR ACCELERATOR ROOM - POWER PLAN
SCALE IN
0 4' 8' 12'

POWER PLAN - KEYED NOTES:

- CONTRACTOR SHALL PULL (3) OWNER FURNISHED CAT6 CABLING USING EXISTING CABLE TRAY AND CONDUIT PATHWAYS BACK TO NEAREST TELECOM CLOSET (TR PT1011). OWNER SHALL TERMINATE CABLE AT NEW DATA DEVICE AND IN TELECOM CLOSET.
- CONTRACTOR SHALL INSTALL VENDOR FURNISHED IEC 60309 POWER OUTLET. CIRCUIT TO MAIN DISTRIBUTION PANEL (MDP) USING 2#12, 1#12 GND IN 3/4" C.
- VENDOR FURNISHED, CONTRACTOR INSTALLED MAIN DISTRIBUTION PANEL (MDP).



PLAN
LINEAR ACCELERATOR ROOM - CONDUIT PLAN
SCALE IN
0 4' 8' 12'

CONDUIT PLAN - KEYED NOTES:

- PROVIDE NEW 2" CONDUIT FROM CONTROL EQUIPMENT PULL BOX TO NEW MAIN CIRCUIT BREAKER PANEL.
- INTERCEPT EXISTING CONDUIT AND EXTEND TO LOCATION AS SHOWN ON LINEAR ACCELERATOR VENDOR DRAWINGS.
- PROVIDE NEW EPO'S IN EXISTING RACEWAY LOCATIONS. NEW EPO DEVICES TO BE FIELD CONVERTIBLE, NORMALLY OPEN OR NORMALLY CLOSED.
- PCU 480V OUTPUT FEEDER TO MDP 3#4 & 1#4 GND IN EXISTING UNDERSLAB CONDUIT. EXTEND CONDUITS TO NEW MAIN CIRCUIT BREAKER PANEL LOCATION. REFER TO VENDOR REFERENCE DRAWINGS FOR CONDUIT SIZE.
- EXISTING CONDUIT TO/FROM PCU. CONDUIT TO BE UTILIZED FOR NEW PCU. REFER TO VENDOR DRAWINGS FOR CONDUCTOR SIZE.
- PROVIDE NEW 1" CONDUIT FROM MAIN CIRCUIT BREAKER PANEL TO NEW IEC 60309 POWER OUTLET. REFER TO POWER PLAN DETAIL ON THIS SHEET FOR IEC OUTLET LOCATION.

VENDOR FURNISHED, CONTRACTOR INSTALLED 30KVA, 480-480V, 60A POWER CONDITIONING UNIT.

GENERAL NOTES:

- SEE DRAWINGS E001 AND E002 FOR ELECTRICAL SYMBOLS LEGEND, NOTES, AND ABBREVIATIONS.
- UNLESS OTHERWISE NOTED, LIGHT LINEWEIGHT INDICATES EXISTING ELECTRICAL EQUIPMENT TO REMAIN. HEAVY LINEWEIGHT INDICATES ELECTRICAL EQUIPMENT AND DEVICES TO BE FURNISHED AND INSTALLED.
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LINEAR ACCELERATOR ROOM

project	137998	contract	CP212451
drawing		rev.	
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file			

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THERAPY

EQUIPMENT COORDINATION
DRAWING FOR
Ellis Fischell Cancer Care
Columbia, MO
March 16, 2022



varian
A Siemens Healthineers Company

NOT FOR CONSTRUCTION

NOTE: FILTERLINE CHILLER INSTALLATION LOCATION TBD BY CUSTOMER'S DESIGN TEAM.

NOTE: FILTERLINE COP INSTALLATION LOCATION TBD BY CUSTOMER'S DESIGN TEAM.

NOTE: IF THIS PROJECT REQUIRES SEISMIC BRACING DESIGN, CONTACT YOUR VARIAN PM. SAMPLE SEISMIC CALCULATIONS AND ANCHORAGE DETAILS ARE AVAILABLE.

NOTE: TRANSISTOR PCU INSTALLATION LOCATION TBD BY CUSTOMER'S DESIGN TEAM.

LOCATE CHILLED WATER SUPPLY & RETURN LINE VALVES ON REAR CONCRETE WALL AT 2'-0" A.F.F., PROVIDE ACCESS DOOR.

IF POSSIBLE WE DO NOT RECOMMEND NOT INSTALLING DOORS BEHIND THE TRAP MACHINE. IF DOORS ARE INSTALLED PLEASE VERIFY THEY CLEAR THE TRAP DOOR, AND ARE EASILY OBTAINABLE TO BE REMOVED FOR SERVICE.

NOTE: IF SITE REQUIRES SEISMIC BRACING DESIGN, CONTACT YOUR VARIAN PM. SAMPLE SEISMIC CALCULATIONS AND ANCHORAGE DETAILS ARE AVAILABLE FOR VARIAN EQUIPMENT.

Verify that concrete configuration meets customer Physical of Record Drawing Specifications.

NOTE: VARIAN HAS NOT PROVIDED A SECTION DRAWING THROUGH WALLS. SECTION TEAM TO VERIFY EXISTING CONFIGURATION.

Refer to Varian PPG for P1 design.

HALCYON LAYOUT FLOOR PLAN
SCALE: 1/8" = 1'-0"

SECTION B1 - TREATMENT ROOM
SCALE: 3/16" = 1'-0"

SECTION A1 - TREATMENT ROOM
SCALE: 3/16" = 1'-0"

REFERENCE NOTES

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THESE DRAWINGS ARE TO ASSIST CUSTOMERS, ARCHITECTS, ENGINEERS, AND CONTRACTORS IN UNDERSTANDING THE HALCYON REQUIREMENTS. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION FOR COMPLETE EQUIPMENT SPECIFICATIONS. REFER TO THE CURRENT HALCYON PRODUCT PLANNING GUIDE (PPG).

RADIATION SHIELDING PROTECTION IS THE RESPONSIBILITY OF THE CUSTOMER AND MUST BE DESIGNED AND APPROVED BY THE FACILITY'S PHYSICIST OF RECORD.

THE FINAL BIDDING SALES ORDER WILL DETERMINE THE ITEMS FURNISHED BY VARIAN. THE CUSTOMER BIDDING SALES ORDER WILL TAKE PRECEDENCE OVER ANY ITEMS REPRESENTED IN THIS DRAWING.

HALCYON COMPONENT IDs

ID	DESCRIPTION	UNIT
V20	CONTROL EQUIPMENT PULL BOX	100 (12)
V21	TREATMENT ROOM FLOOR PIT	100 (12)
V22	DOOR INTERLOCK SWITCHES	100 (12)
V23	WARNING LIGHTS (max 4 x 4 ft)	100 (12)
V24	NETWORK DATA PORT (max)	100 (12)
V25	EXCESS CABLE STORAGE BOX	100 (12)

HALCYON COMPONENT IDs

ID	DESCRIPTION	UNIT
00	ISOCENTER	100 (12)
V11	STAND AND GAWBY	100 (12)
V12	TREATMENT COUCH	100 (12)
V13	CONSOLE CABINET	100 (12)
V14	SYSTEM MONITORS (10" x 10")	100 (12)
V15	CONTROL CONSOLE	100 (12)
V16	KEYBOARD AND MOUSE	100 (12)
V17	MAIN CIRCUIT BREAKER PANEL (100 AMP, 120V, 1-PHASE)	100 (12)
V18	REC ROOM POWER OUTLET (100 AMP, 120V, 1-PHASE)	100 (12)
V19	RELAY JUNCTION BOX (100 AMP, 120V, 1-PHASE)	100 (12)
V20	CONTROL CABLE STORAGE BOX	100 (12)
V21	TRANSISTOR POWER CONDITIONER (100 AMP, 120V, 1-PHASE)	100 (12)
V22	DOOR INTERLOCK SWITCHES	100 (12)
V23	WARNING LIGHTS (max 4 x 4 ft)	100 (12)
V24	NETWORK DATA PORT (max)	100 (12)
V25	EXCESS CABLE STORAGE BOX	100 (12)

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HALCYON CONDUIT SCHEDULE

ID	QTY	WIRE	MIN Ø SIZE	MAX RUN LENGTH	START POINT	FINISH (T/O)
A	1	100 (12)	100 (12)	36m (120')	CONSOLE CABINET - V13	STAND - V11
B	1	100 (12)	100 (12)	11m (36')	CONSOLE CABINET - V13	CONSOLE CABINET - V13
C	1	100 (12)	100 (12)	11m (36')	CONSOLE CABINET - V13	STAND - V11
D	1	100 (12)	100 (12)	57m (187')	CONSOLE CABINET - V13	STAND - V11
E	1	100 (12)	100 (12)	49m (161')	CONSOLE CABINET - V13	CONSOLE CABINET - V13
F	1	100 (12)	100 (12)	12m (39')	CONSOLE CABINET - V13	CONSOLE CABINET - V13
G	1	100 (12)	100 (12)	7m (23')	CONSOLE CABINET - V13	CONSOLE CABINET - V13
H	1	100 (12)	100 (12)	7m (23')	CONSOLE CABINET - V13	CONSOLE CABINET - V13
I	1	100 (12)	100 (12)	80 (1 1/4')	CONSOLE CABINET - V13	CONSOLE CABINET - V13
J	1	100 (12)	100 (12)	PER CODE	CONSOLE CABINET - V13	CONSOLE CABINET - V13
K	1	100 (12)	100 (12)	PER CODE	CONSOLE CABINET - V13	CONSOLE CABINET - V13
L	1	100 (12)	100 (12)	143 (470')	CONSOLE CABINET - V13	CONSOLE CABINET - V13
M	1	100 (12)	100 (12)	143 (470')	CONSOLE CABINET - V13	CONSOLE CABINET - V13
N	1	100 (12)	100 (12)	143 (470')	CONSOLE CABINET - V13	CONSOLE CABINET - V13
O	2	100 (12)	100 (12)	100 (12)	CONSOLE CABINET - V13	CONSOLE CABINET - V13

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HALCYON CONDUIT PLAN
SCALE: 1/8" = 1'-0"

SECTION B2 - CONSOLE
SCALE: 1/4" = 1'-0"

SECTION C2 - CONSOLE
SCALE: 1/4" = 1'-0"

CONSOLE CABINET FLOOR POSITIONING BRACKET
SCALE: 1/2" = 1'-0"

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HALCYON Equipment Coordination Drawing for ELLIS FISCHELL CANCER CARE COLUMBIA, MO

DATE: 04/21/22
DRAWN BY: J. LOTT
CHECKED BY: C. PRICE
APPROVED BY: J. LOTT
DATE: 04/21/22

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DATE: 04/21/22
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NOT FOR CONSTRUCTION

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CHECKED BY: C. PRICE
APPROVED BY: J. LOTT
DATE: 04/21/22

NOT FOR CONSTRUCTION

NOTE: CONSULT WITH CUSTOMER FOR STORAGE REQUIREMENTS.

HALCYON CONTROL AREA CONSOLE - PLAN VIEW
SCALE: 1/4" = 1'-0"

NOTE: CONSULT WITH CUSTOMER FOR STORAGE REQUIREMENTS.

ELEVATION A2 - HALCYON CONTROL AREA CONSOLE
SCALE: 1/4" = 1'-0"

SECTION B2 - CONSOLE
SCALE: 1/4" = 1'-0"

SECTION C2 - CONSOLE
SCALE: 1/4" = 1'-0"

CONSOLE CABINET FLOOR POSITIONING BRACKET
SCALE: 1/2" = 1'-0"

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NOT FOR CONSTRUCTION

NOTE: EXISTING CONDUITS TO BE BY CUSTOMER DESIGN TEAM. EXISTING CONDUIT INFORMATION IS AS NOTED.

EXISTING RECESSED PULL BOX TO REMAIN, PROVIDE AN ACCESS COVER PLATE FOR SAFETY.

EXISTING RECESSED PULL BOX TO REMAIN, PROVIDE AN ACCESS COVER PLATE FOR SAFETY.

HALCYON CONDUIT PLAN
SCALE: 1/8" = 1'-0"

"TYPICAL" HALCYON CONDUIT RISER DIAGRAM
SCALE: 3/16" = 1'-0"

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P: 816-333-9400

MCCoA # - Architecture: 000089
MCCoA # - Engineering: 000165
MCCoA # - Landscape: 2016016502

date: 04/21/22
designed: J. LOTT
detailed: J. LOTT
checked: C. PRICE

PATIENT CARE TOWER - T1251 LINEAR ACCELERATOR REPLACEMENT
MU Project # CP212451

MU Healthcare - University Hospital
1 Hospital Drive, Columbia, MO 65212

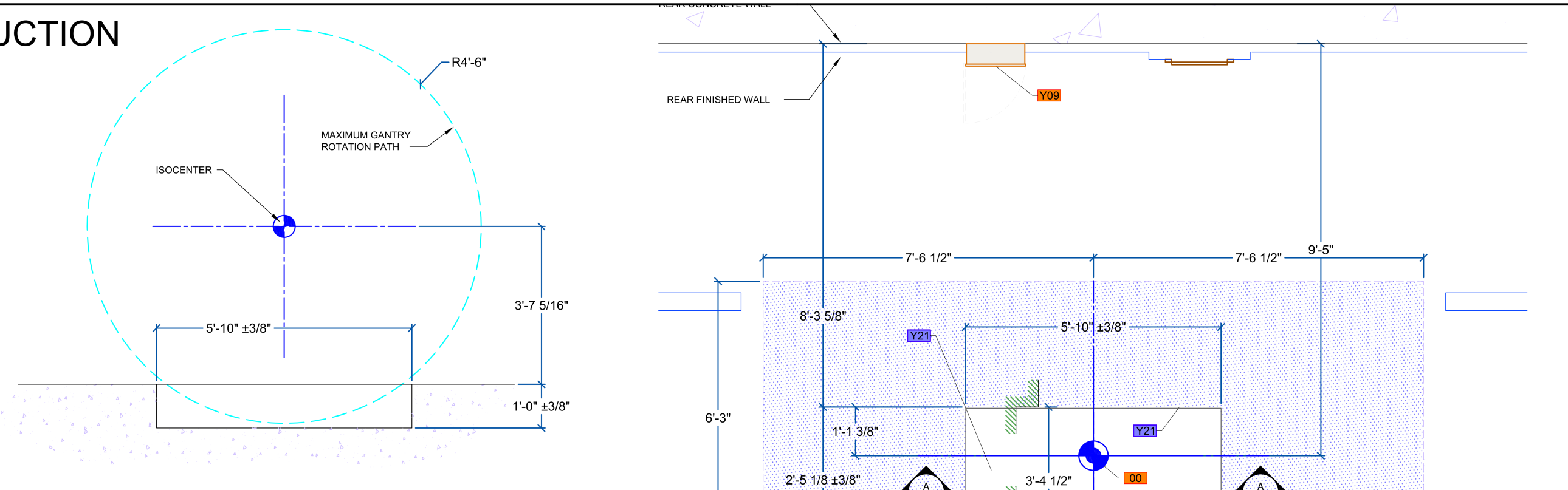
Contract Title: Patient Care Tower - T1251
Linear Accelerator Replacement
MU Project # CP212451

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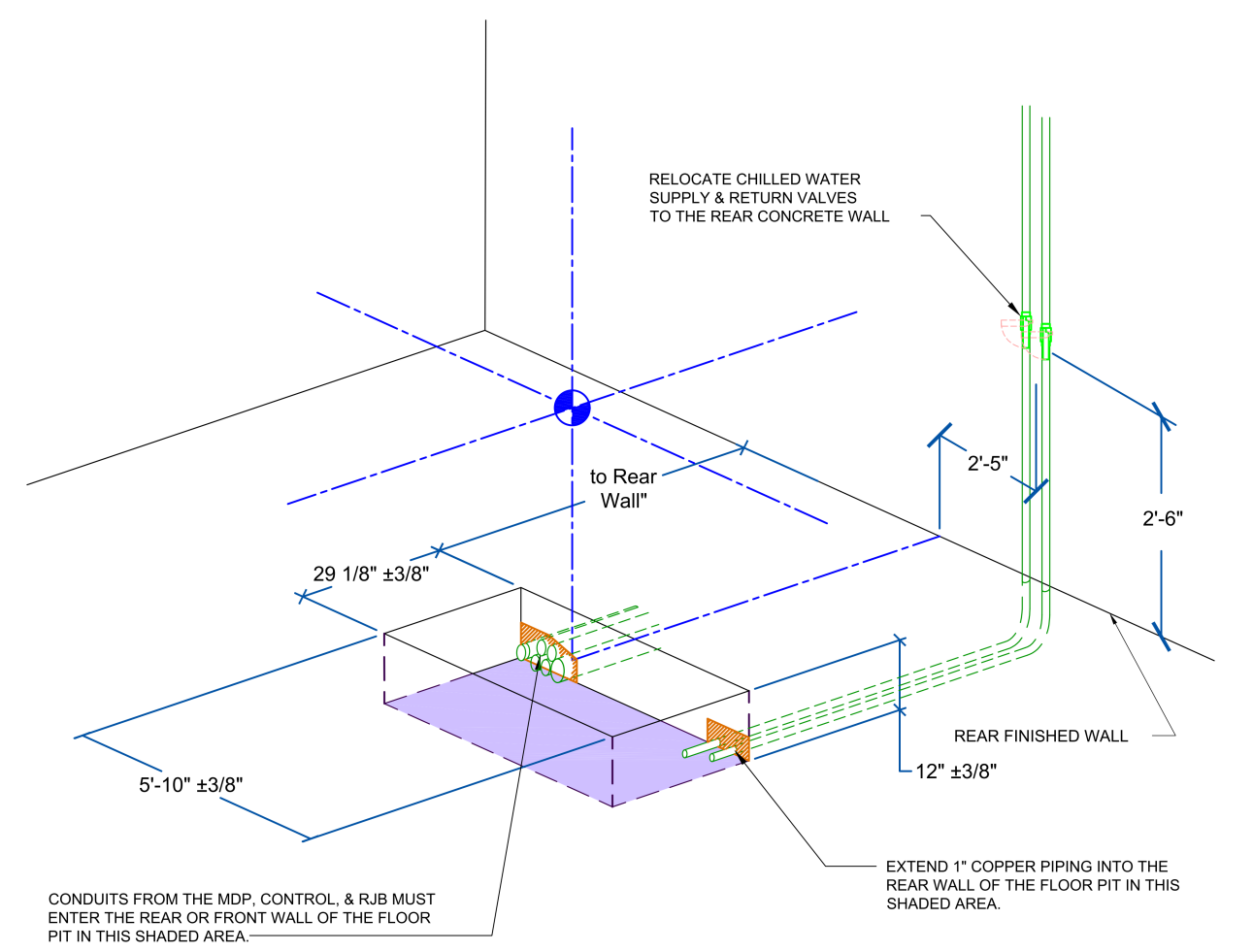
VENDOR EQUIPMENT DRAWINGS

project: 137998
contract: CP212451
drawing: Q-100 - 0
sheet: of sheets

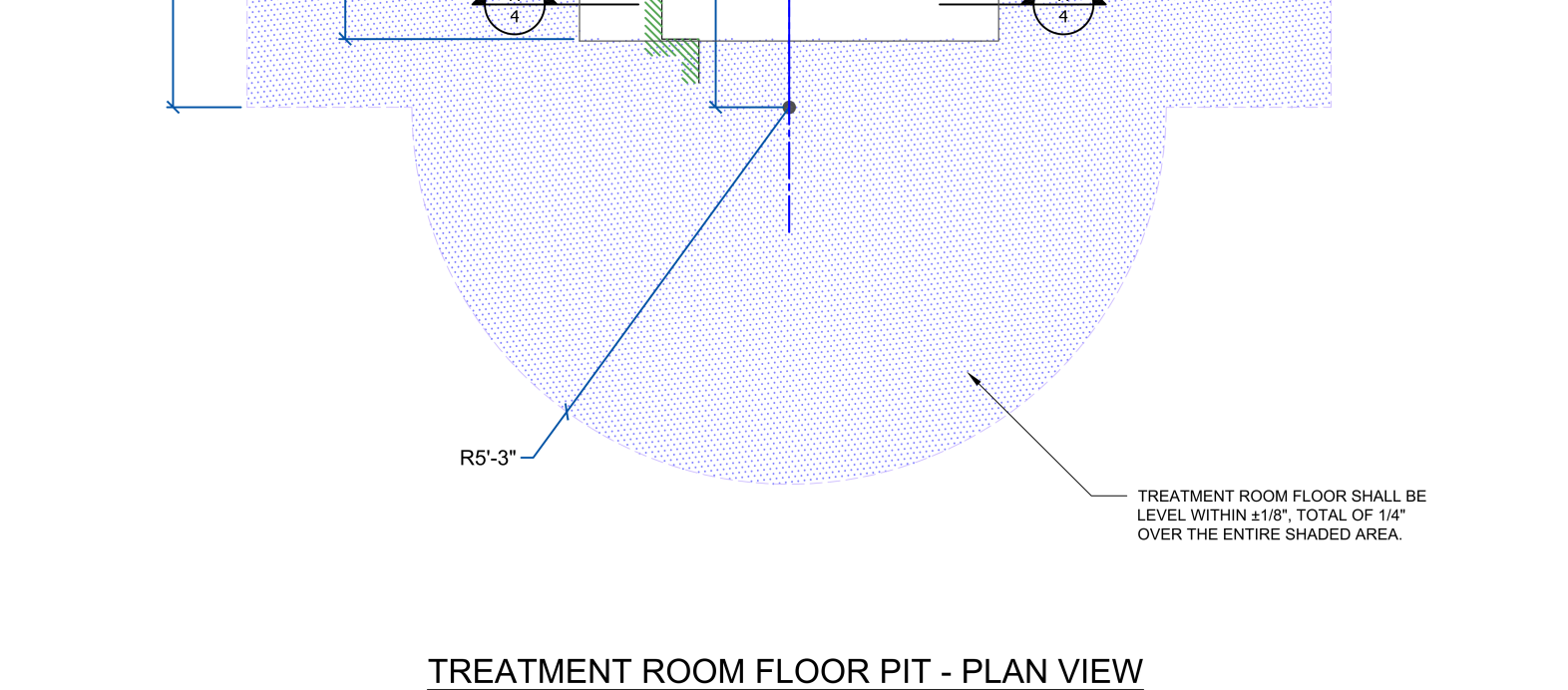
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SECTION A4 - FLOOR PIT
SCALE: 3/8" = 1'-0"



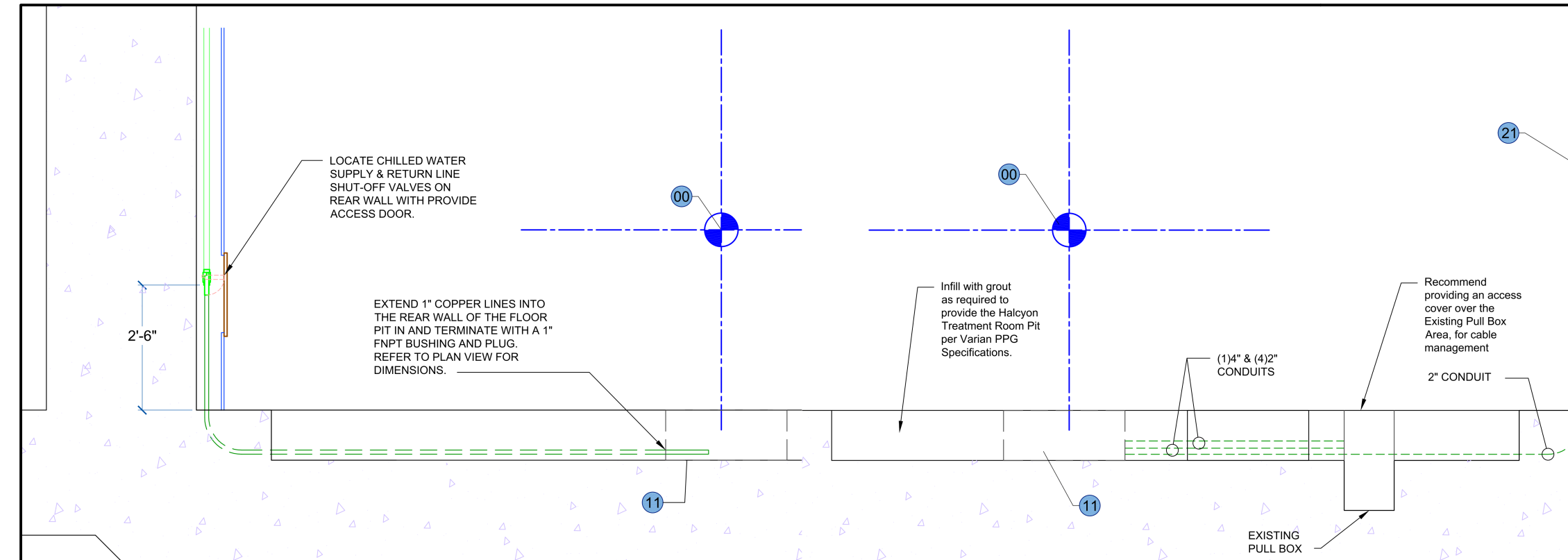
TREATMENT ROOM FLOOR PIT - ISOMETRIC VIEW
SCALE: 3/8" = 1'-0"



TREATMENT ROOM FLOOR PIT - PLAN VIEW
SCALE: 3/8" = 1'-0"

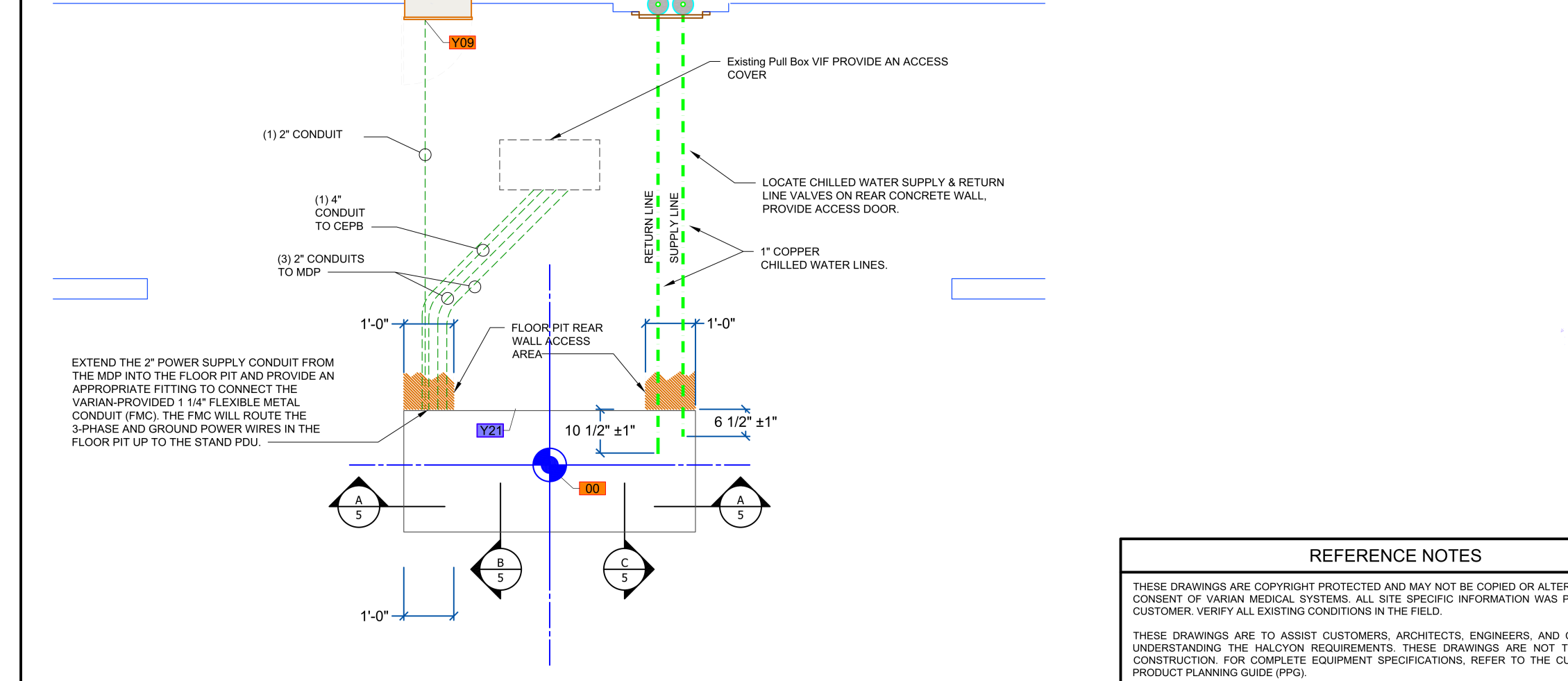
REFERENCE NOTES		HALCYON Equipment Coordination Drawing for ELLIS FISCHELL CANCER CARE COLUMBIA, MO	
DATE	BY	DATE	BY
04/21/22	JAL	04/21/22	JAL
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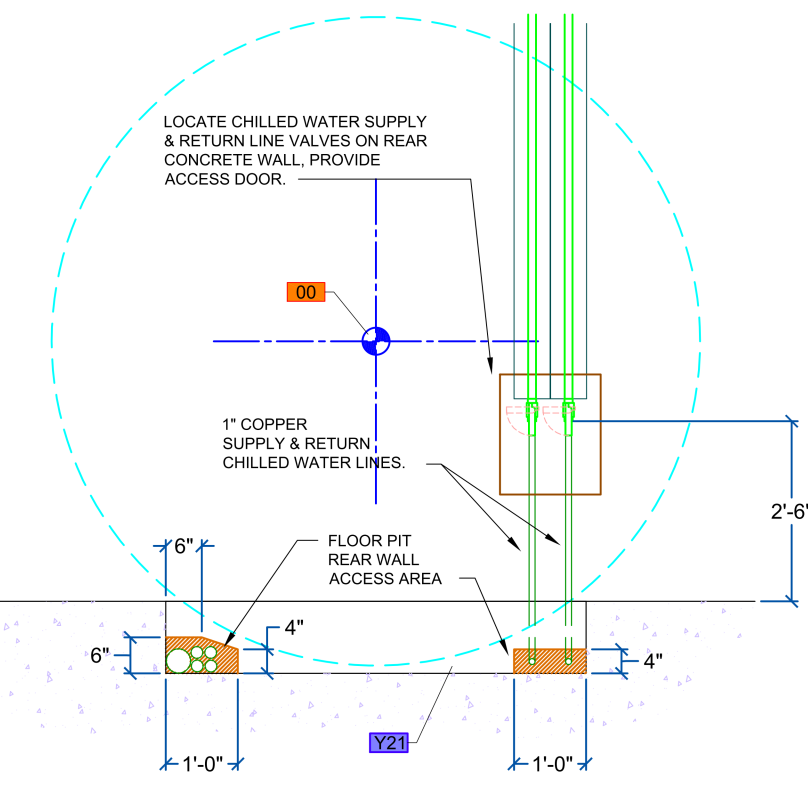
SECTION C5 - FLOOR PIT CHILLED WATER ACCESS
SCALE: 3/8" = 1'-0"

SECTION B5 - FLOOR PIT CABLE ACCESS
SCALE: 3/8" = 1'-0"



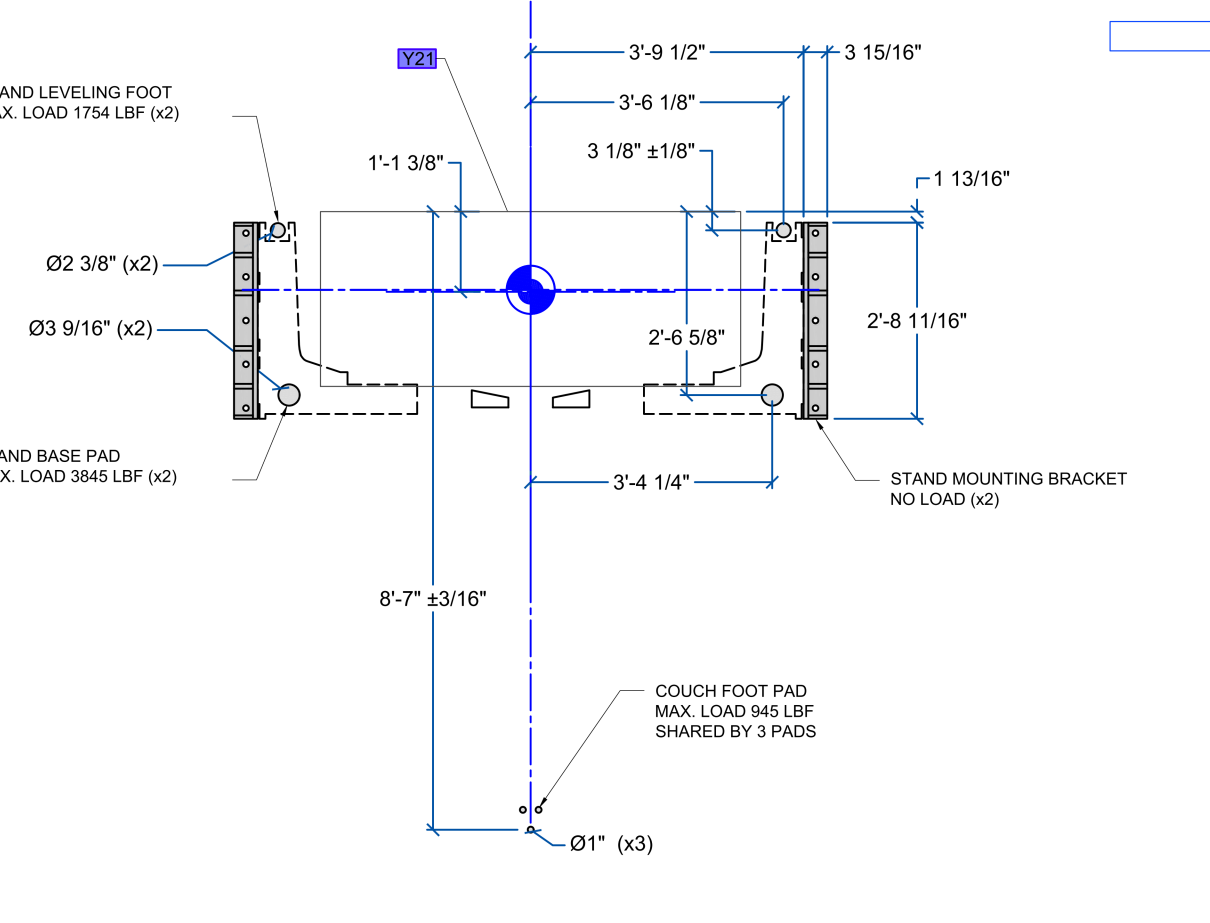
FLOOR PIT - CONDUIT & CHILLED WATER ACCESS PLAN
SCALE: 3/8" = 1'-0"

REFERENCE NOTES		HALCYON Equipment Coordination Drawing for ELLIS FISCHELL CANCER CARE COLUMBIA, MO	
DATE	BY	DATE	BY
04/21/22	JAL	04/21/22	JAL
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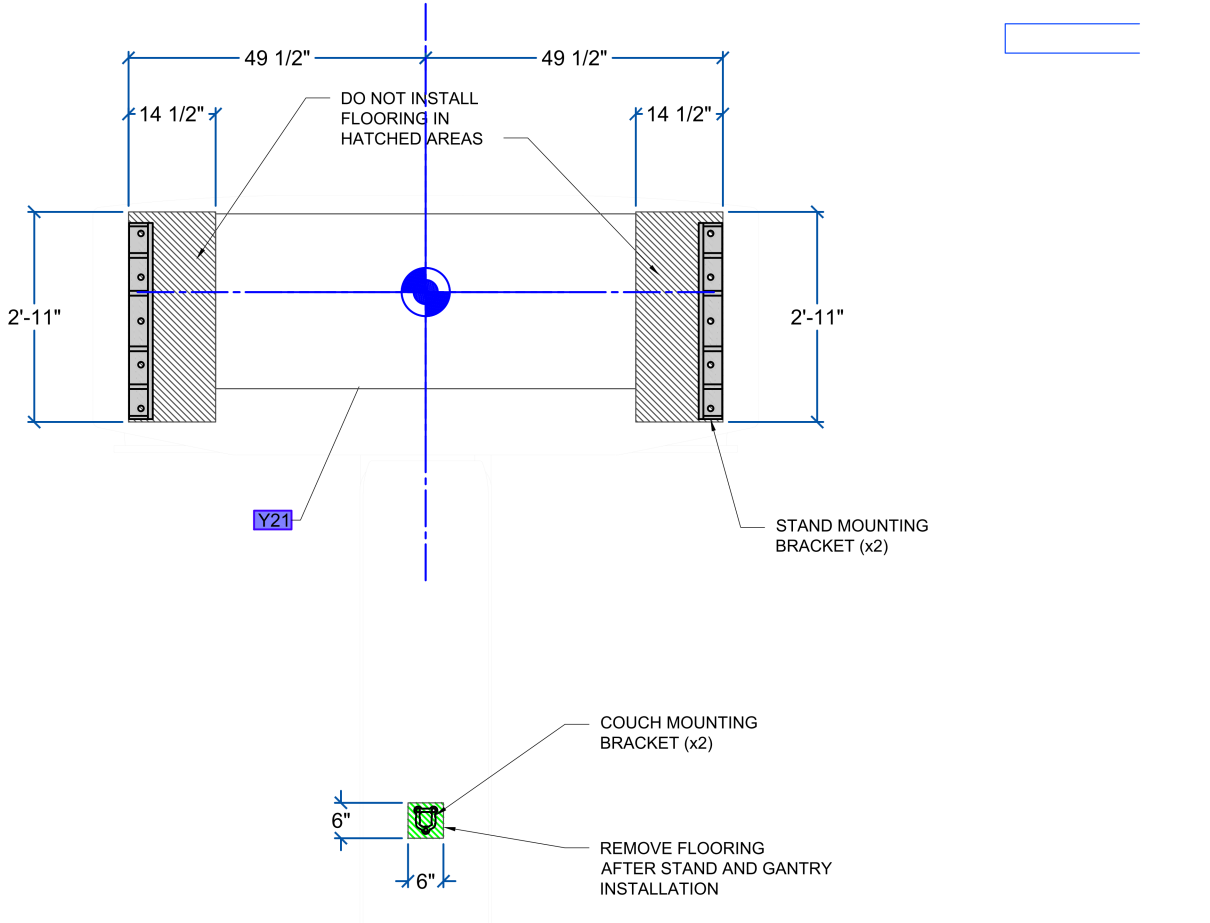


SECTION A5 - FLOOR PIT REAR WALL
SCALE: 3/8" = 1'-0"

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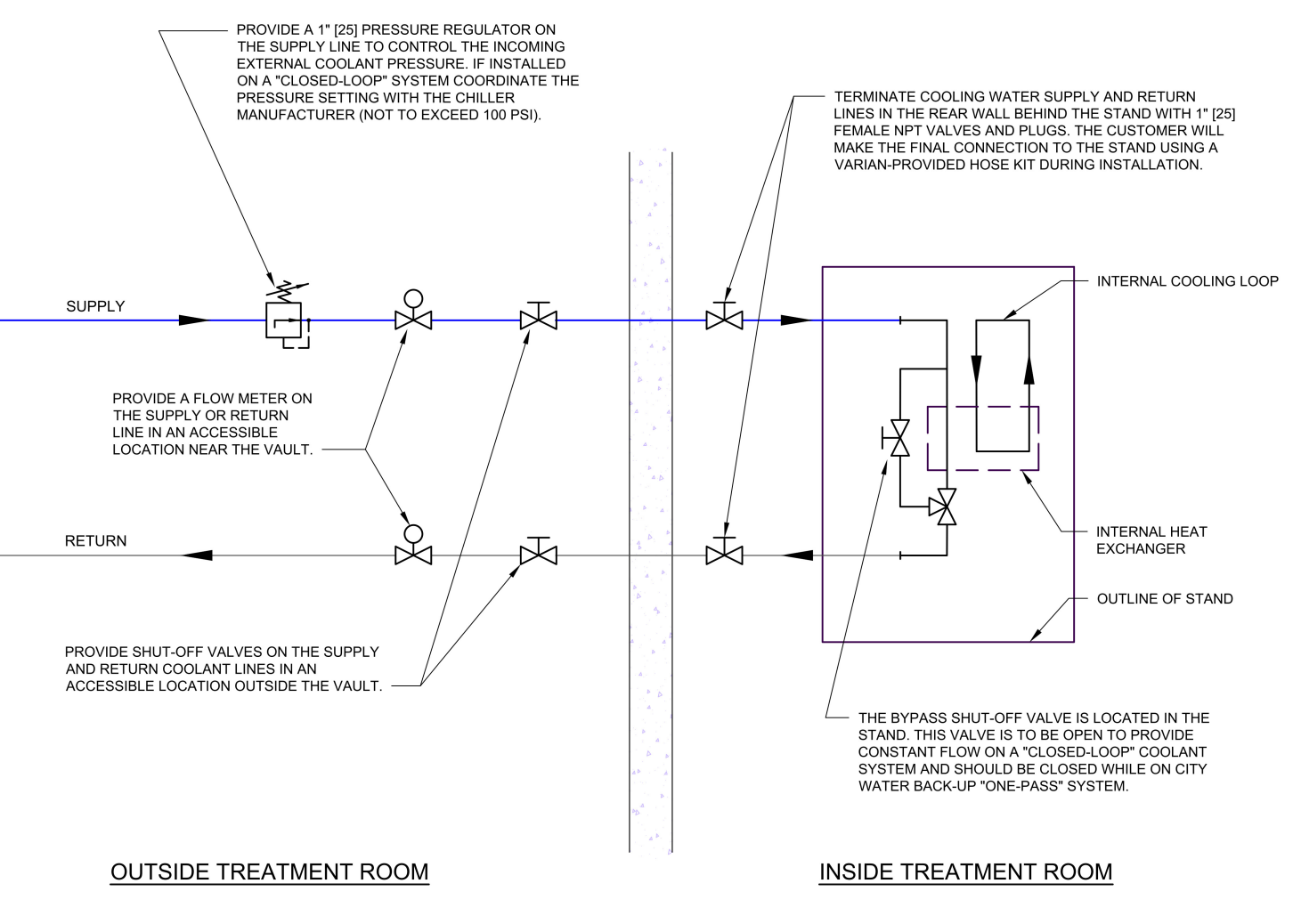
FLOOR LOADING & FLOOR BRACKET PLAN
SCALE: 3/8" = 1'-0"



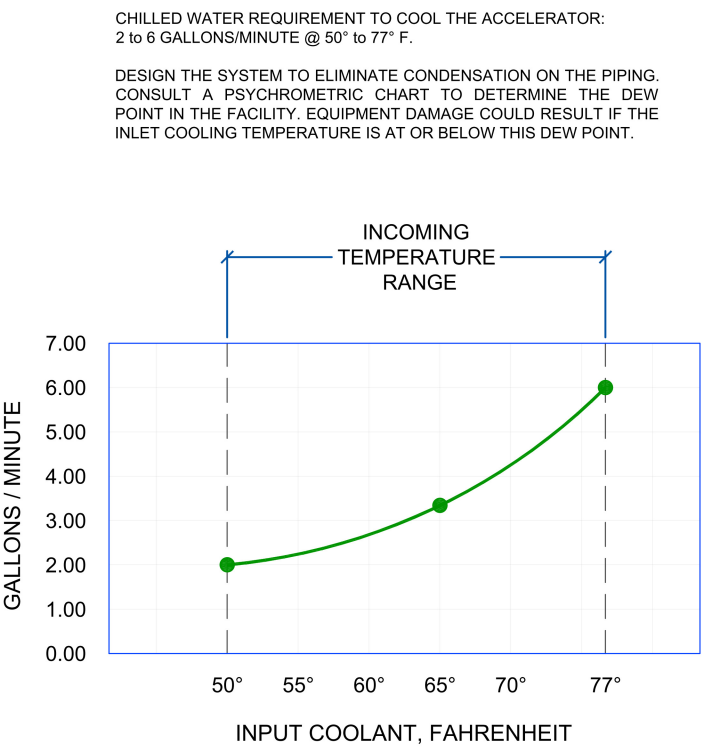
TREATMENT ROOM FINISHED FLOORING CUTOFF PLAN
SCALE: 3/8" = 1'-0"

REFERENCE NOTES		HALCYON Equipment Coordination Drawing for ELLIS FISCHELL CANCER CARE COLUMBIA, MO	
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04/21/22	JAL	04/21/22	JAL
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HALCYON COOLANT SYSTEM DIAGRAM



COOLANT FLOW REQUIREMENT

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DATE	BY	DATE	BY
04/21/22	JAL	04/21/22	JAL
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BURNS MEDONNELL
 9400 WARD PARKWAY
 KANSAS CITY, MO 64114
 P: 816-333-9400
 MOCO A # - Architecture: 000089
 MOCO A # - Engineering: 000165
 MOCO A # - Landscape: 2016016502

date	by	checked
04/21/22	J. LOTT	C. PRICE

PATIENT CARE TOWER - T1251 LINEAR ACCELERATOR REPLACEMENT
MU Project # CP212451

MU Healthcare - University Hospital
1 Hospital Drive, Columbia, MO 65212
Contract Title: Patient Care Tower - T1251
Linear Accelerator Replacement
MU Project # CP212451

UNIVERSITY OF MISSOURI - COLUMBIA
FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

VENDOR EQUIPMENT DRAWINGS

project	contract
137998	CP212451
drawing	rev.
Q-101	0
sheet	of
of	of
file	sheets

