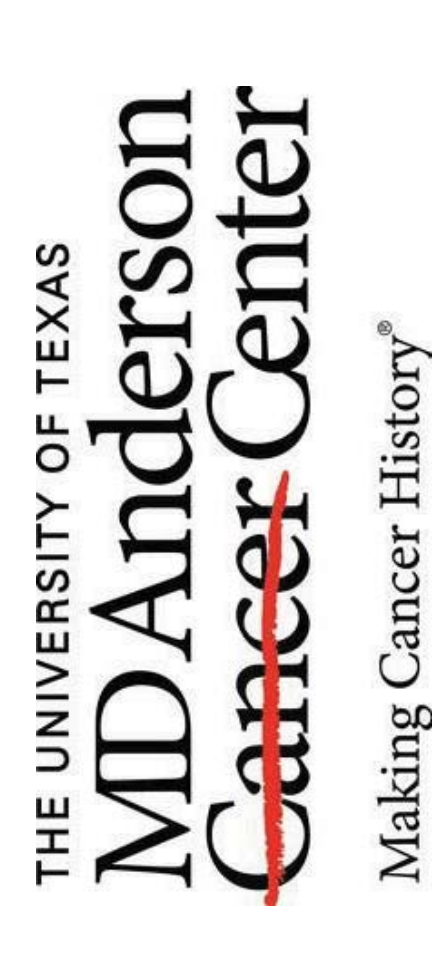
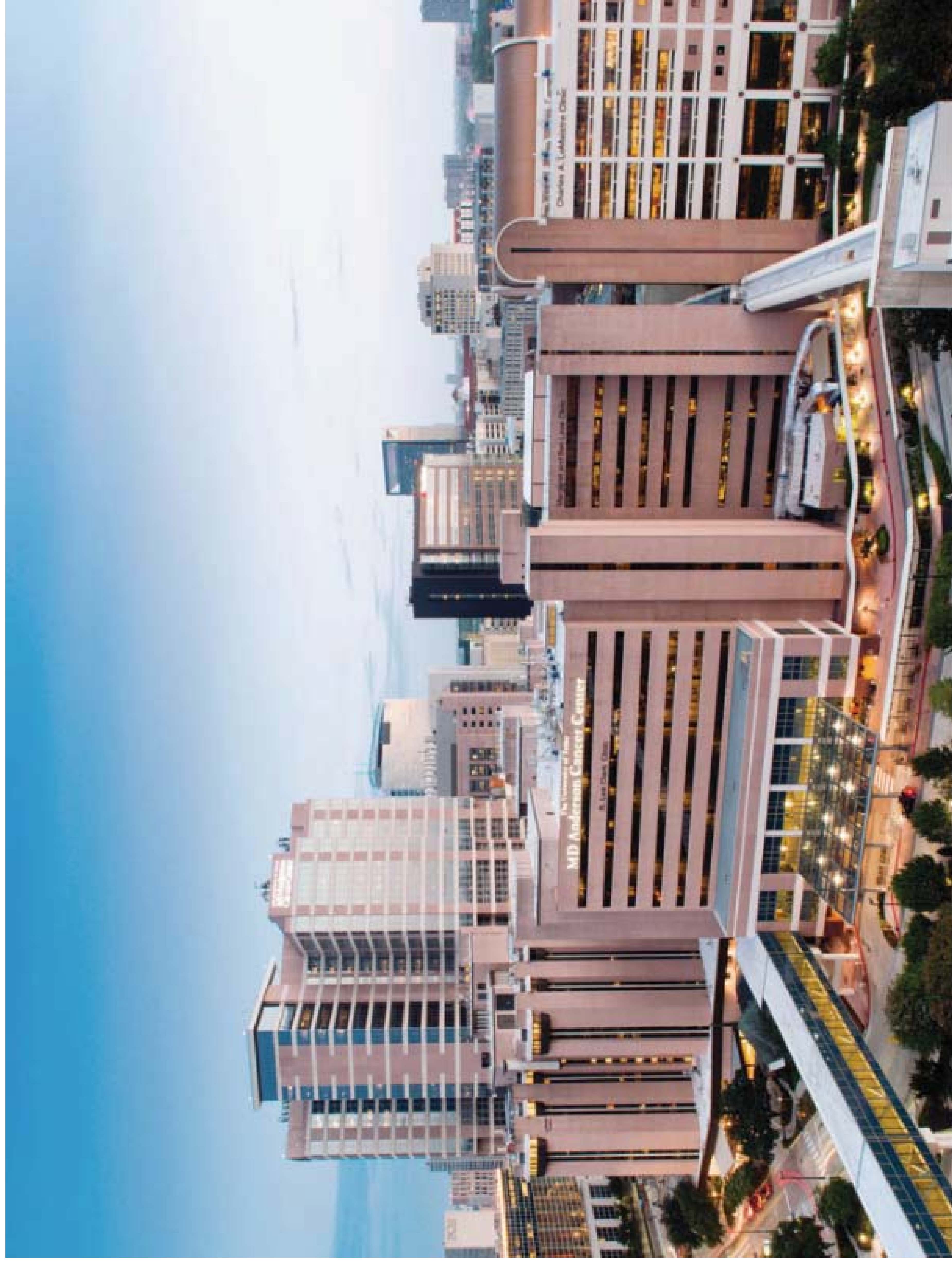
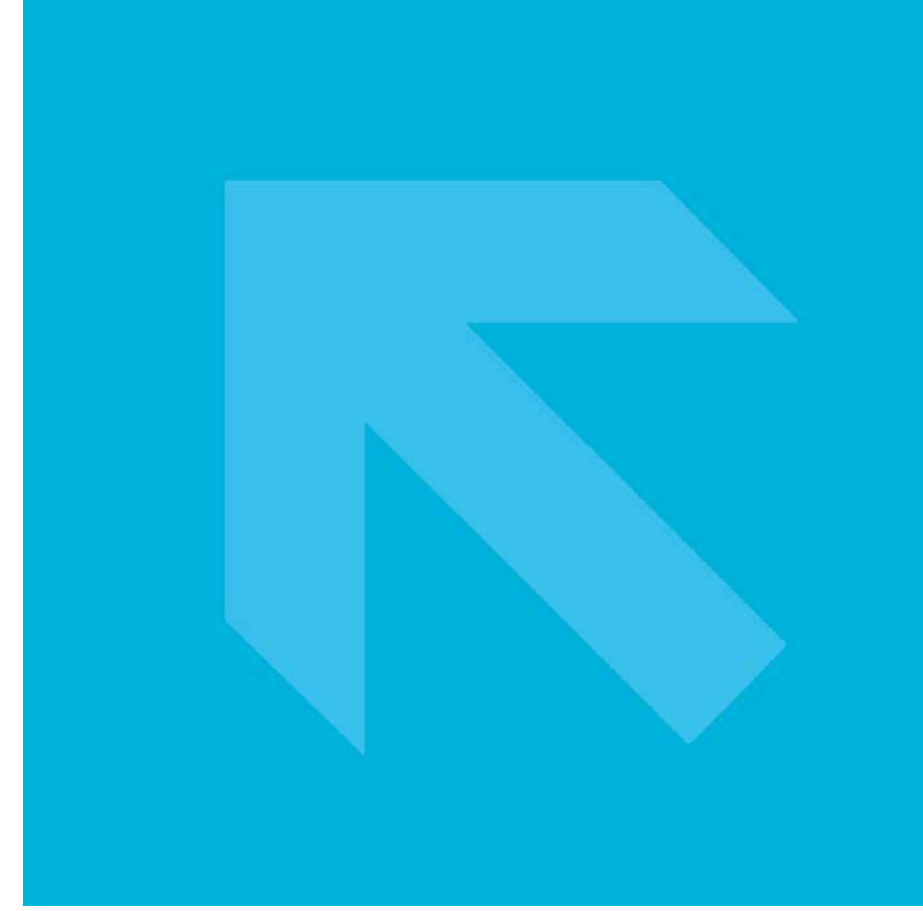


PERKINS  
+ WILL

UTMDA - R8 LEUKEMIA LAB RENOVATION



CONSTRUCTION  
04/16/2018





# UTMDA - R8 LEUKEMIA LAB RENOVATION

04/16/2018  
PW PROJECT #182158.005  
OWNER PROJECT #160137

1515 HOLCOMBE BLVD.,  
HOUSTON, TX 77030

## CONSTRUCTION DOCUMENTS

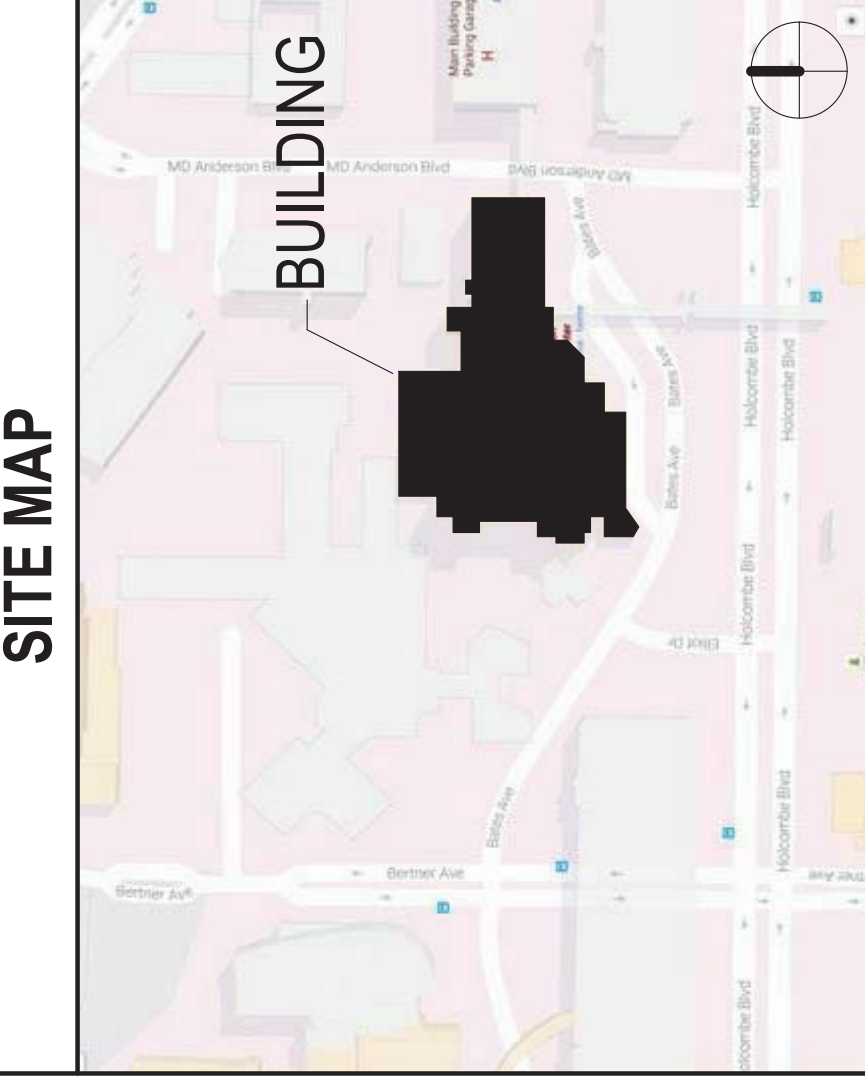
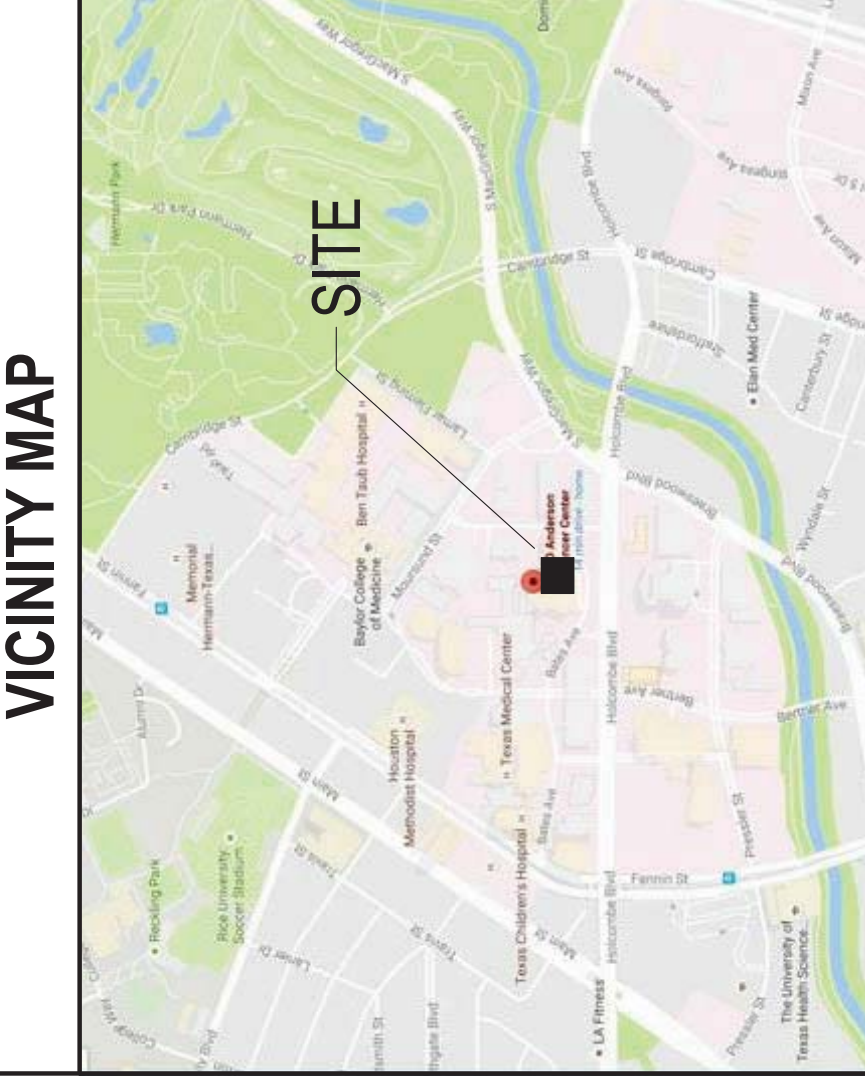
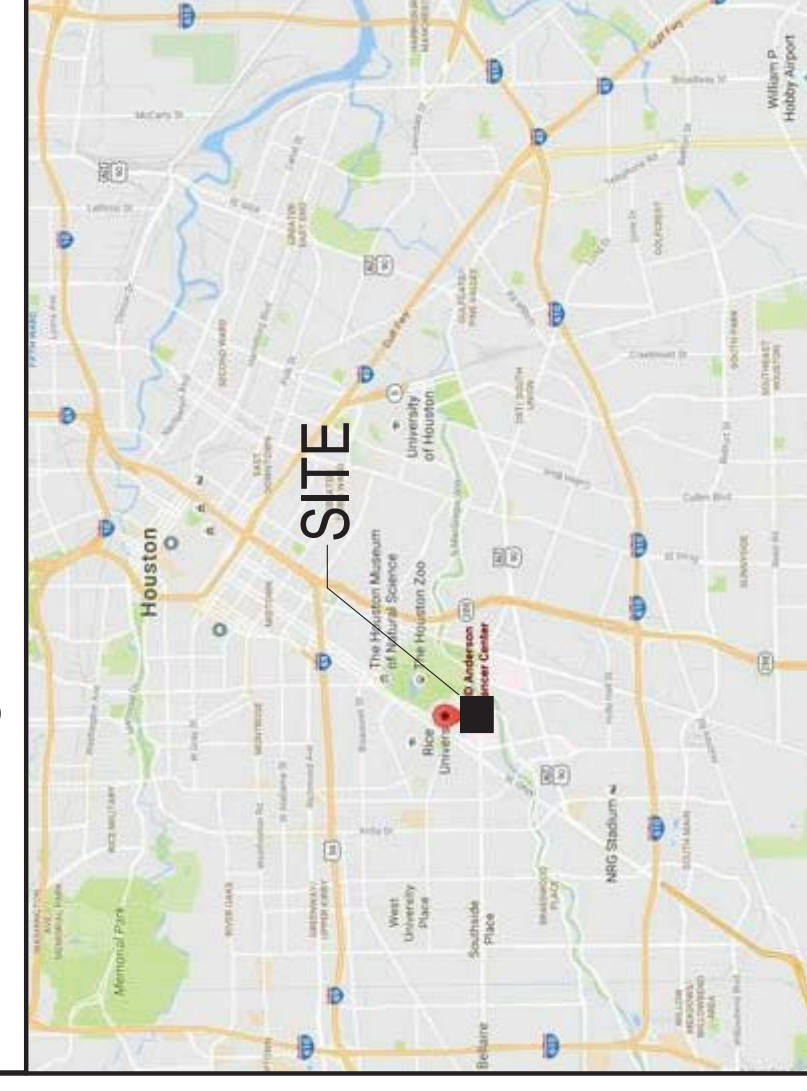
THE UNIVERSITY OF TEXAS  
**MDAnderson**  
**CancerCenter**  
Making Cancer History

FACILITY	OWNER	ARCHITECT	INTERIOR DESIGN	MEP
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SHEET NUMBER	SHEET NAME
01-GENERAL	COVER SHEET
02-001	INDEX OF DRAWINGS
04-ARCHITECTURAL	FOUNDATION PLAN, LEVEL 01
05-001	FLOOR FINISH PLAN & INTERIOR ELEVATION
07-PLUMBING	PLUMBING ABREVIATIONS AND SYMBOLS
08-001	PLUMBING PLANS LEVEL 8
PZ-01	

DRAWING NUMBER KEY	
KEY	15A11-01
DISCIPLINE	
A - ARCHITECTURE	
C - CIVIL	
L - LANDSCAPE	
M - MECHANICAL	
E - ELECTRICAL	
P - PLUMBING	
S - STRUCTURAL	
K - KITCHEN	
R - RADIOLOGY	
NUMBER OF PLAN, SECTION, ELEVATION, ETC.	
ON SHEET	
DRAWING SERIES	

PROJECT DATA	
<ul style="list-style-type: none"> <li><b>PROJECT INFORMATION:</b> PROJECT SUMMARY: THIS PROJECT CONSISTS OF RENOVATION TO A PORTION OF MD ANDERSON CANCER CENTER CHARLES LEMASTRE BUILDING (LEVEL EIGHT). THIS PROJECT DOES NOT INVOLVE THE ADDITION OF NEW CONSTRUCTION AND THIS RENOVATION SHALL NOT RESULT IN A CHANGE OF USE OR OCCUPANCY CLASSIFICATION.</li> <li><b>CHARLES LEMASTRE BUILDING:</b> PROJECT AREA: 775 SF STORES: 9 STORES (WORK ON LEVEL 8 ONLY)</li> <li><b>CODES/LAWS:</b> 2009 NFPA 101 - LIFE SAFETY CODE - GOVERNING CODE 2009 INTERNATIONAL BUILDING CODE 2009 NATIONAL ELECTRIC CODE 2009 INTERNATIONAL PLUMBING CODE 2009 INTERNATIONAL ENERGY CONSERVATION CODE ASHRAE 90.1 - 2010 TEXAS DEPARTMENT OF LICENSING REGULATION (TDLR) 2012 TEXAS ACCESSIBILITY STANDARDS (TAS) TITLE 26, TEXAS ADMINISTRATIVE CODE</li> <li><b>OCCUPANCY CLASSIFICATION:</b> 2009 IBC - GROUP B (BUSINESS) - SECTIONS 904.1, 902.1.1, 903.1.1 2009 NFPA 101 - BUSINESS OCCUPANCY - SECTIONS 6.1.1.1, 6.1.2.2, 6.1.3.3, 6.1.4, 1.4.13</li> <li><b>PRINCIPAL OCCUPANCY TYPE:</b> INSTITUTIONAL</li> <li><b>CONSTRUCTION TYPE:</b> 2009 INTERNATIONAL BUILDING CODE TYPE IV (TABLE 601) 2009 NFPA 101/NFPA 220 TYPE I (302)</li> </ul>	<ul style="list-style-type: none"> <li><b>PROJECT:</b> 04/16/2018</li> </ul>



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HOUSTON, TX 77030  
FACILITY  
CHARLES LEMASTRE  
1515 HOLCOMBE BLVD.,  
HOUSTON, TX 77030



**UTMDA - R8 LEUKEMIA LAB RENOVATION**  
1515 HOLCOMBE BLVD.,  
HOUSTON, TX 77030

**UT MD ANDERSON**  
1515 HOLCOMBE BLVD.,  
HOUSTON, TX 77030  
KEYPLAN

ISSUE CHART

ISSUE	DATE
Job Number	182158.005
Drawn	RK
Checked	IS
Approved	IS
TITLE	

INDEX OF DRAWINGS

SHEET NUMBER

**G00-01**

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04/16/2018

**PROJECT**

**UTMDA - R8 LEUKEMIA  
LAB RENOVATION**  
1515 HOLCOMBE BLVD.,  
HOUSTON, TX 77030

**UT MD ANDERSON**  
1515 HOLCOMBE BLVD.,  
HOUSTON, TX 77030  
**KEY PLAN**

**ISSUE CHART**

ISSUE	ISSUE	DATE
Job Number	1827158.005	
Drawn	Author	
Checked	Checker	
Approved	Approver	
<b>TITLE</b>		

**DEMOLITION PLAN -  
LEVEL 01**

**SHEET NUMBER**

**A04-08**

**DEMOLITION GENERAL NOTES**

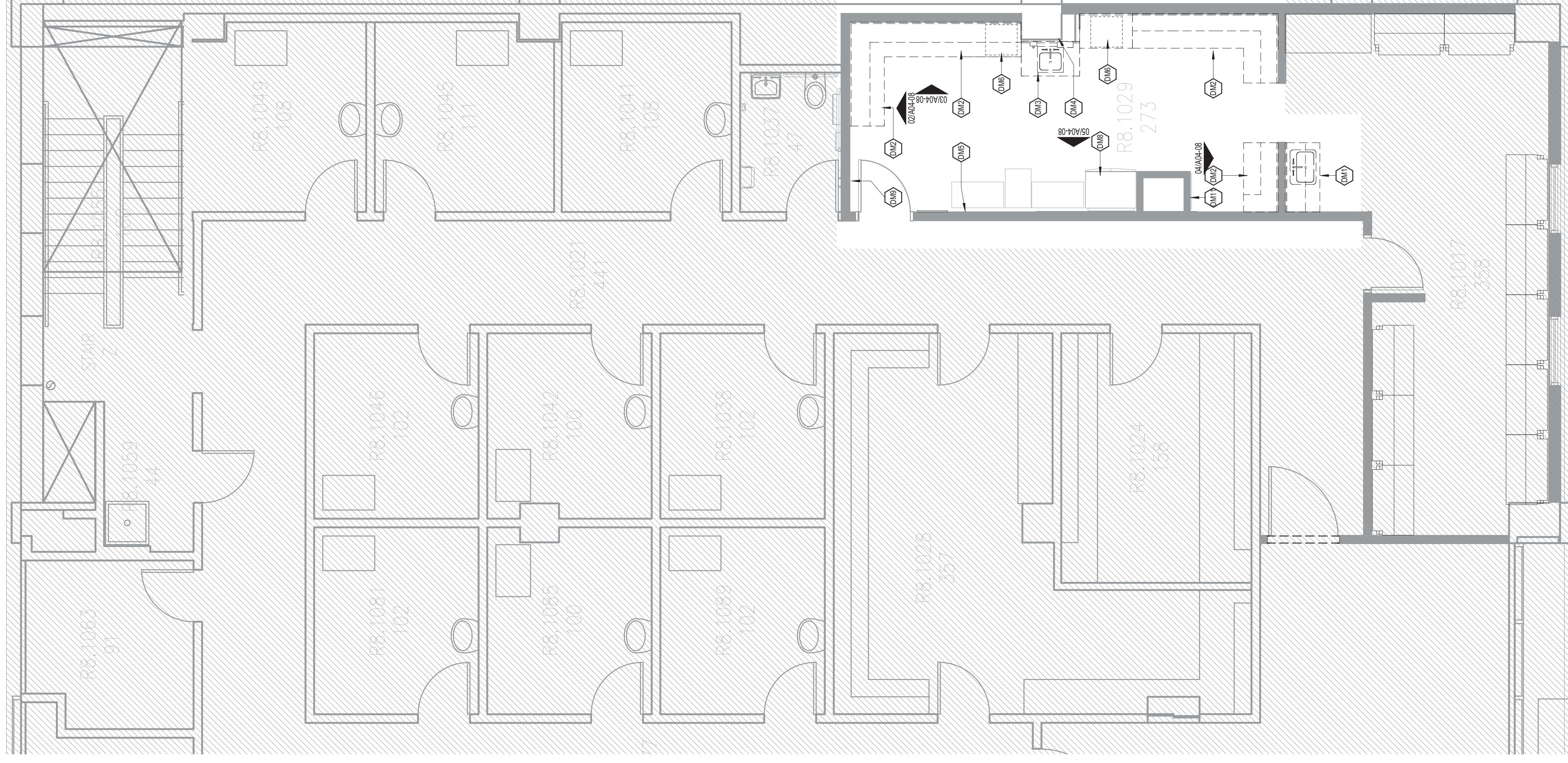
- REFER TO SPECIFICATIONS FOR INTERNAL LIFE SAFETY MEASURES.
- CONDUCT TEMPORARY PARTITIONS AS REQUIRED BY PHASING TO MINIMIZE THE SPREAD OF DUST AND NOISE.
- THESE DRAWINGS HAVE BEEN PREPARED FROM EXISTING DRAWINGS WHICH MAY NOT REFLECT ACTUAL FIELD CONDITIONS. VERIFY THESE CONDITIONS WITH THE ARCHITECT PRIOR TO CONSTRUCTION. VERIFY ALL ACTUAL CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION.
- REMOVE ANY DAMAGED PRE-FABRICATED ASSEMBLIES TO THEIR ORIGINAL SPECIFICATION, UNLESS OTHERWISE NOTED.
- REMOVE EXISTING FINISHES TO THE FINISH WALL, CEILING, FLOOR, AND MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS CONTAINED THEREIN. REMOVE DOORS, CASEWORK, WINDOWS, FRAMES, PARTITIONS, ETC. AS NOTED. REMOVE ALL CASEWORK, PARTITIONS, ETC. TO THE FINISH WALL TO BE DEMOLISHED. REMOVE PROTECTION AND STRUCTURAL REQUIREMENTS, PATCH ADJOINING WALLS, FLOORS AND DECK, AND PREPARE SURFACES TO RECEIVE NEW FINISHES. FERT FINISHES SHALL BE OBTAINED FROM THE ARCHITECT.
- WHERE NEW FINISHES ARE TO BE INSTALLED ON TO REMAIN SURFACES, REMOVE ALL EXISTING FINISHES AND PREPARE THE EXISTING SURFACE TO RECEIVE THE NEW FINISH.
- COORDINATE WITH THE OWNER ANY ITEMS TO BE STORED AND/OR RELOCATED.
- SEE CIVIL, MECHANICAL, PLUMBING, AND/OR ELECTRICAL DRAWINGS FOR DEMOLITION OF UTILITIES.
- FOR EXTENT AND LOCATION OF CHANGING OF FLOOR SLAB, REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. IF PIPING OR CONDUIT WORK (OTHER THAN THE DESIRED CONNECTION) IS ENCOUNTERED WHILE CHANGELING, NOTIFY THE ARCHITECT BEFORE CONTINUING.
- VERIFY THAT CONSTRUCTION OF WALLS WITHIN THE AREA OF RENOVATION IS NOT BEING PERFORMED. VERIFY THAT ALL WORK IS AS NOTED. ANY MODIFICATIONS NECESSARY TO BRING WALLS, DOORS, DUCTS, ETC. UP TO CODE SHALL BE OBTAINED FROM THE ARCHITECT. ALL WORK SHALL HAVE THE PROPER LABELING.
- VERIFY THAT EXISTING RISERS IS MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT CONSTRUCTION.
- REMOVE FROM WORK SHALL BE SET PER ALL CONFORMANCE WITH ALL CODES AND AS SET FORTH BY ALL GOVERNING AUTHORITIES.
- BRACE STRUCTURES OR STRUCTURAL ELEMENTS AS NECESSARY TO MAINTAIN STABILITY.
- DO NOT DO ANY STRUCTURAL WORK WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- THE BUILDING ENVELOPE SHALL BE MAINTAINED IN A WATER TIGHT CONDITION AT ALL TIMES.
- REPLACE OR REPAIR ANY TO REMAIN FINISHES WHICH ARE DAMAGED (CEILING GRID, CEILING TILE, WALL COVERING, FLOOR COVERINGS, ETC.).
- WHEREVER POSSIBLE, RETAIN REMOVED BRICK, TO BE USED TO FILL EXTERIOR WALL OPENINGS.
- NOTIFY THE ARCHITECT IMMEDIATELY IF THE REMOVAL OF MECHANICAL, ELECTRICAL, PLUMBING SYSTEMS OR COMPONENTS WILL ADVERSELY AFFECT THE OPERATION OF MEP SYSTEMS OUTSIDE THE LIMIT OF DEMOLITION.
- SCHEDULE ALL DEMOLITION WITH THE OWNER.

**DEMOLITION LEGEND**

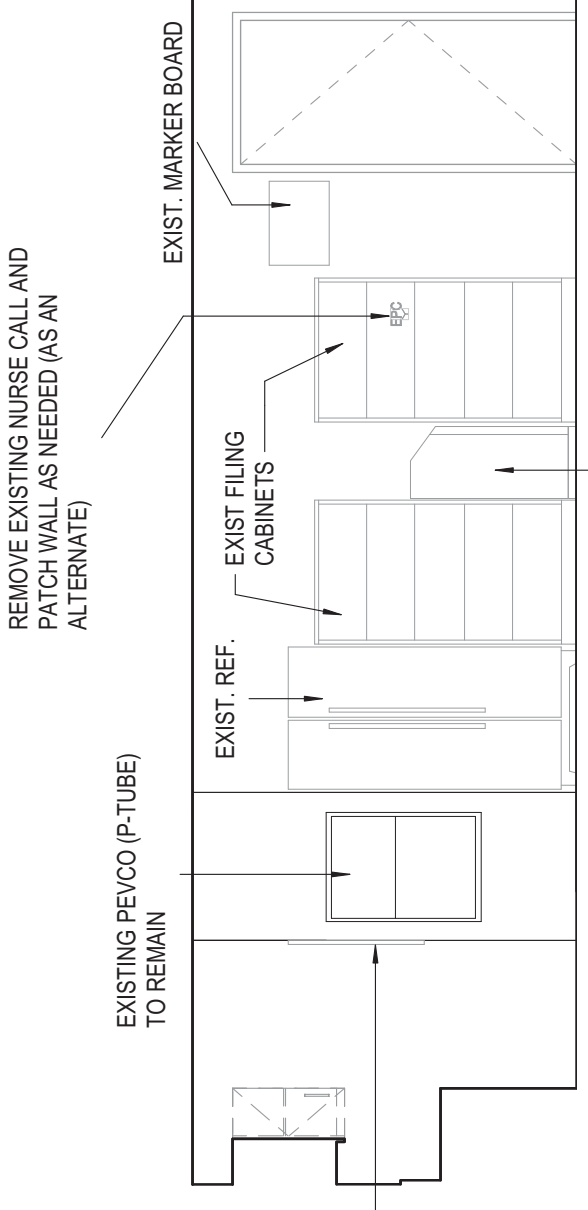
- CONSTRUCTION TO REMAIN
- - - CONSTRUCTION TO BE REMOVED - SEE NOTES & OF "DEMOLITION GENERAL NOTES"
- [Hatched Box] FLOOR SLAB TO BE REMOVED WITHIN AREA INDICATED
- [Cross-hatched Box] FLOOR, WALL AND CEILING FINISHES ONLY, TO BE REMOVED WITHIN AREA INDICATED
- [Grid Pattern Box] FLOOR AND WALL FINISHES ONLY, TO BE REMOVED WITHIN AREA INDICATED
- [Diagonal Line Box] AREA OUT OF ARCHITECTURAL SCOPE BUT REFER TO MEP AND STRUCTURAL DEMOLITION REQUIRED

**DEMOLITION NOTES BY NUMBER**

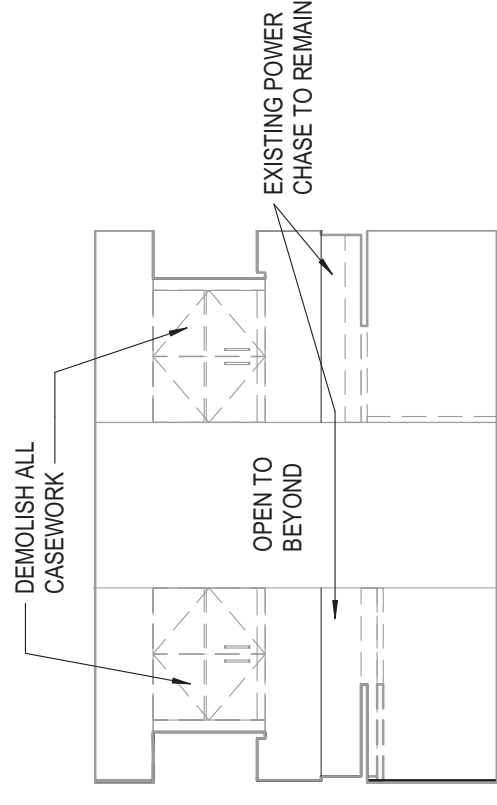
- ◀◀ Indicates Sheet Keynote on Plan
- DM1 DEMOLISH EXISTING SINK & RELATED CASEWORK
- DM2 DEMOLISH ALL CASEWORK, ELECTRICAL CHASE TO REMAIN
- DM3 DEMOLISH SINK AND CASEWORK
- DM4 DEMOLISH CASEWORK
- DM5 REMOVE EXISTING NURSE CALL AND PATCH WALL AS NEEDED, PROVIDE AS AN ALTERNATE
- DM6 EXISTING CENTRIFUGE TO REMAIN
- DM7 EXISTING MAGNETIC STRIPS TO BE DESTROYED
- DM8 EXISTING MAGNETIC STRIPS TO BE REUSED
- DM9 EXISTING MAGNETIC STRIPS TO BE REUSED
- DM10 REMOVE PATCH BOARD
- DM11 REMOVE PATCH BOARD



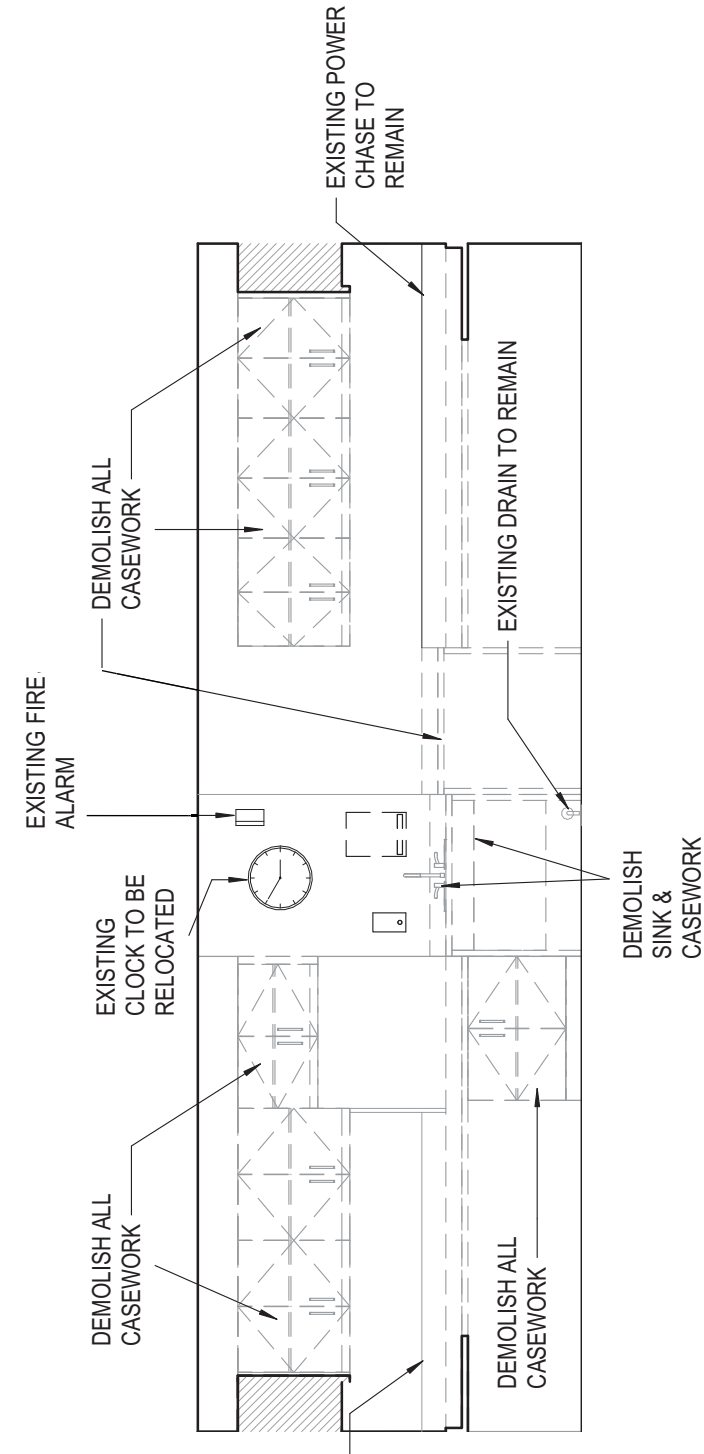
**01 LEVEL 08 - DEMOLITION FLOOR PLAN**  
1/4" = 1'-0"



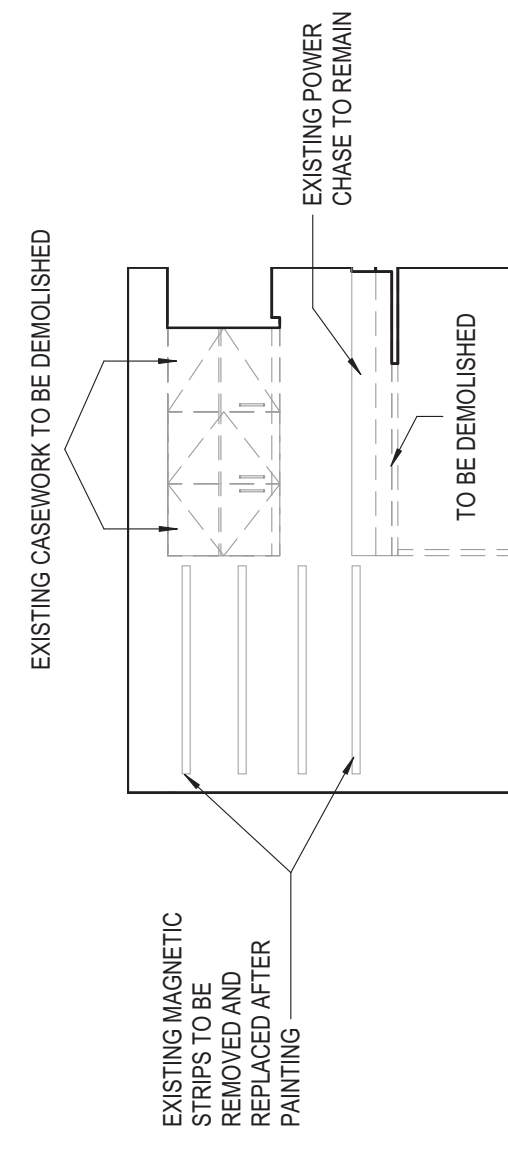
**05 LAB - WEST ELEVATION**  
1/4" = 1'-0"



**04 LAB - SOUTH ELEVATION**  
1/4" = 1'-0"



**03 LAB - EAST ELEVATION**  
1/4" = 1'-0"



**02 LAB - NORTH ELEVATION**  
1/4" = 1'-0"



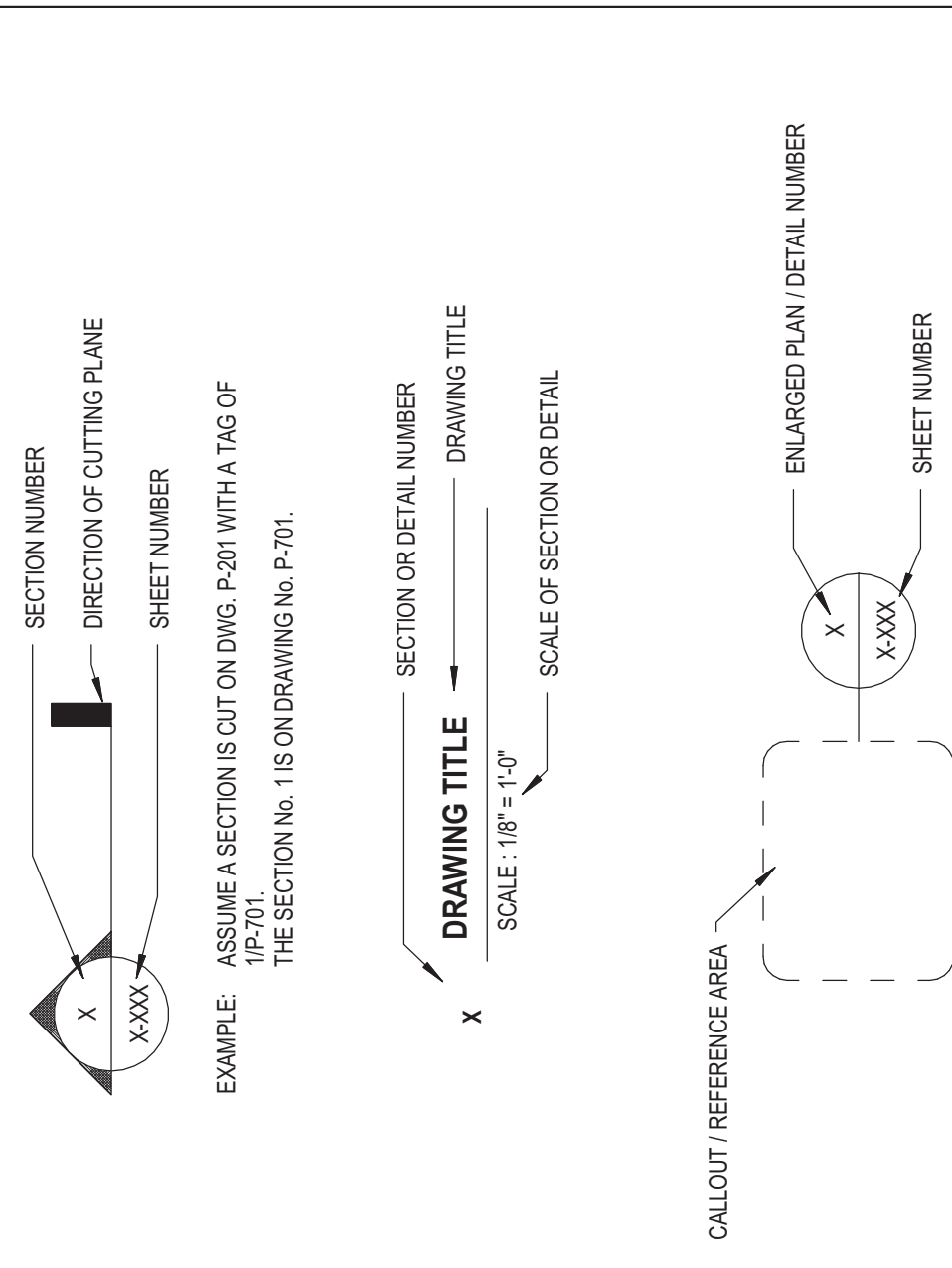




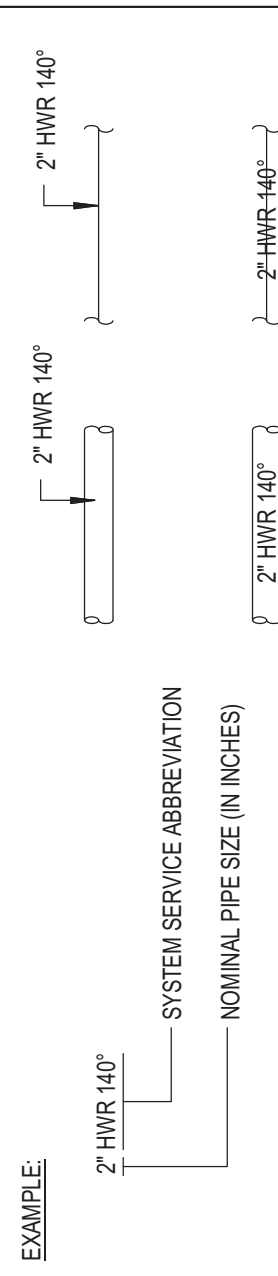
**PLUMBING LEGEND**

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

ABB.	SYMBOL	DESCRIPTION	ABB.	SYMBOL	DESCRIPTION
AV	AV	AOD VENT	DN	DN	PIPE TURN DOWN
AW	AW	AOD WASTE	UP	UP	PIPE TURN UP
GV	GV	GREASE VEIT	CO	CO	LINE CLEANOUT (ABOVE CEILING)
GW	GW	GREASE WASTE	FOO	FOO	FLOOR CLEANOUT
LV	LV	LAB VENT	CBV	CBV	CONTROL BALANCING VALVE
LW	LW	LAB WASTE	BV	BV	BALL VALVE (1/2" - 2")
OD	OD	OVERFLOW DRAIN	BV	BV	BALL VALVE (2" - 4")
SD	SD	STORM DRAIN	BV	BV	BUTTERFLY VALVE
SS	SS	SANITARY (DRAIN SOIL WASTE)	CV	CV	CHECK VALVE
V	V	SANITARY VENT	CV	CV	GATE VALVE
CW	CW	DOMESTIC COLD WATER	OSV	OSV	OS&V VALVE
CWHP	CWHP	DOMESTIC COLD WATER HIGH PRESSURE	PRV	PRV	PRESSURE REGULATING VALVE
HW	HW	DOMESTIC HOT WATER			
HW 140°	HW 140°	DOMESTIC HOT WATER 140°			
HWR	HWR	DOMESTIC HOT WATER RETURN			
HW 140°	HW 140°	DOMESTIC HOT WATER RETURN 140°			
DI	DI	DEIONIZED WATER SUPPLY			
DR	DR	DEIONIZED WATER RETURN			
RO	RO	REVERSE OSMOSIS WATER SUPPLY			
ROR	ROR	REVERSE OSMOSIS WATER RETURN			
SW	SW	SOFTENED WATER			
F	F	FIRE LINE FIRE STAND PIPE			
FS	FS	FIRE SPRINKLER			
CA	CA	COMPRESSED AIR			
NG	NG	NATURAL GAS			
VAC	VAC	VACUUM			



**PIPE DESIGNATION**



**APPLICABLE CODES / STANDARDS**

- UNIFORM BUILDING CODE - 2012 EDITION - WITH CITY OF HOUSTON AMENDMENTS
- UNIFORM FIRE CODE - 2012 EDITION - WITH CITY OF HOUSTON AMENDMENTS
- UNIFORM PLUMBING CODE - 2012 EDITION - WITH CITY OF HOUSTON AMENDMENTS
- TEXAS HEALTH AND SAFETY CODE, CHAPTER 372 - ENVIRONMENTAL PERFORMANCE STANDARDS FOR PLUMBING FIXTURES
- TEXAS ACCESSIBILITY STANDARDS (T.A.S.) - LATEST EDITION

**PIPE MATERIAL LIST**

- A. DOMESTIC HOT AND COLD WATER BELOW SLAB - TYPE "K" COPPER (ASTM B88) WITH WROUGHT COPPER SOLDER FITTINGS AND (8) (1/2) USING 955 SOLDER.
- B. SANITARY WASTE AND VENT BELOW SLAB - SCHEDULE 40 PVC PIPE AND FITTINGS WITH SOLVENT WELD CONNECTIONS.
- C. SANITARY WASTE AND VENT ABOVE SLAB - SERVICE WEIGHT CAST IRON NO-HUB SOIL PIPE FITTINGS WITH STAINLESS STEEL NO-HUB COUPLING ASSEMBLIES TOURQUET TO 80 PS. CSF 301.
- D. FIRE PROTECTION PIPING - SCHEDULE 40, ASTM A53, BLACK STEEL PIPE WITH CAST IRON FITTINGS.
- E. NATURAL GAS PIPING - SCHEDULE 40, ASTM A53, BLACK STEEL PIPE WITH MALLEABLE IRON FITTINGS.
- F. COMPRESSOR GAS AND VACUUM PIPING - TYPE "L" COPPER (ASTM B88) WITH WROUGHT COPPER SOLDER FITTINGS (ANSI B16.32) USING 955 SOLDER.
- G. LAB WASTE AND VENT PIPING ABOVE AND BELOW SLAB - SCHEDULE 40 PVC PROTECTIVE PIPING AND FITTINGS WITH FUSION JOINTS. ALTERNATE MATERIAL IS CPVC WITH SOLVENT WELD JOINTS.
- H. STORM DRAIN PIPING BELOW SLAB - SCHEDULE 40 PVC PIPE AND FITTINGS WITH SOLVENT WELD CONNECTIONS.
- I. STORM DRAIN PIPING ABOVE SLAB - SERVICE WEIGHT CAST IRON NO-HUB SOIL PIPE AND FITTINGS WITH STAINLESS STEEL NO-HUB COUPLING ASSEMBLIES TOURQUET TO 80 PS. CSF 301.
- J. PROVIDE ISOLATION FITTINGS WHEREVER DISSIMILAR MATERIALS ARE USED.
- RE PLUMBING SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**DRAWING LIST**

PLUMBING ABBREVIATIONS AND SYMBOLS  
PLUMBING PLANS LEVEL B

P100  
P201

**GENERAL NOTES**

- ALL PLUMBING CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, REGULATIONS AND STANDARDS.
- REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR PLUMBING CONSTRUCTION.
- REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS, WHERE THE ARCHITECT HAS DRAWN SLOPE/ELEVATIONS, FOR THE LOCATION OF ALL WALL MOUNTED DEVICES.
- FURNISH ACCESS DOORS FOR INSTALLATION BY THE GENERAL CONTRACTOR IN WALLS AND CEILINGS WHERE ACCESS IS REQUIRED TO CONCEALED PLUMBING EQUIPMENT, VALVES, CONTROLS AND OTHER DEVICES.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION OF PIPING WITH OTHER TRADES AND RELOCATING PIPING OR PROVIDING OFFSETS IN PIPING AS REQUIRED.
- CAULK WITH FIRE RATING MATERIAL, THE VOID BETWEEN PIPE AND SLEEVES THRU BEAMS REFER TO FLOOR PLANS FOR LOCATIONS.
- NO NEW ASBESTOS CONTAINING MATERIALS MAY BE USED IN THIS BUILDING.
- THE CONTRACTOR WILL CONDUCT SAFETY TRAINING FOR ALL CONTRACTOR PERSONNEL.
- DO NOT ROUTE PLUMBING PIPING ABOVE ROOMS CONTAINING SENSITIVE ELECTRICAL EQUIPMENT (ELECTRICAL ROOMS, TELECOMMUNICATION ROOMS, ELEVATOR EQUIPMENT ROOMS, ETC).
- SLOPE WASTE, VENT, STORM AND OVERFLOW DRAIN LINES A MINIMUM OF 1/8" (1/8" PER FOOT) FOR SIZES 3" AND LARGER & 2/8" (1/4" PER FOOT) FOR SIZES LESS THAN 3".
- ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS OR FLOOR DECKS SHALL MAINTAIN THE RATING OF THE DECK OR PARTITION BY USING A LISTED ASSEMBLY OF EQUAL OR BETTER FIRE RATING.
- ALL PIPE PENETRATIONS THROUGH RAISED FLOOR SYSTEM SHALL BE SEALED TO PREVENT AIR LEAKAGE.
- PROVIDE PRO-GUARDS AT ALL TRAP CONNECTIONS UNLESS NOTED OTHERWISE.
- OBTAIN ALL NECESSARY PERMITS, PAY LEGAL FEES AND COMPLY WITH ALL NATIONAL, STATE AND MUNICIPAL LAWS, CODES AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.
- PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.
- REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
- ALL SYSTEMS SHALL BE COMPLETE AND WORKING AT COMPLETION OF CONSTRUCTION.
- GUARANTEE ALL WORK AND MATERIALS FURNISHED UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER AND ARCHITECT.
- CONTRACTOR SHALL VISIT, OBSERVE AND VERIFY SIZE AND LOCATION OF ALL EXISTING ITEMS AND CONDITIONS.
- ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIAL SHALL BE MADE WITH DIE-ELECTRIC UNIONS. DISSIMILAR METALS SHALL NOT BE TOUCHING.
- CONTRACTOR SHALL NOTIFY OWNER OF ANY REQUIRED SHUT DOWNS AND COORDINATE THESE WITH OWNER. DOWNTIME SHALL BE HELD TO A MINIMUM.
- CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH EXISTING AND NEW MECHANICAL AND ELECTRICAL ITEMS.
- ALL EXISTING FACILITIES SHALL BE PROTECTED DURING THE CONSTRUCTION ACTIVITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE AND STORE ITEMS WHICH ARE SUBJECT TO BREAKAGE OR DAMAGE.
- SUBMIT SHOP DRAWINGS OF PROPOSED NEW DEVICES PRIOR TO INSTALLATION.
- FURNISH OWNER WITH COMPLETE OPERATING MANUALS AND INSTRUCTIONS FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- INSULATE ALL NEW COMPOSITE HOT WATER PIPING WITH 1" THICK FIBERGLASS WITH FACTORY APPLIED ADHESIVE INSULATE FITTINGS AND VALVES TO THICKNESS EXCEEDING PIPING INSULATION WITH HYDRALIC INSULATING CEMENT, GLASS FABRIC AND FINISHING CEMENT. ALL MATERIAL TO BE FLENUM RATED. PROTECT GALVANIZED SHEET METAL INSULATION SHIELDS AT EACH HANGER (SUPPORT) LOCATION.
- NEW DOMESTIC WATER SHUT-OFF VALVES TO BE (NCO) # 1-564-961F FURNISH WITH EXTENDED STEM FOR VALVES IN INSULATED LINES.
- INSULATE LAB DRAIN LINE AND DRAIN BODY OF LAB COOL DRAIN AND PANEL DRAIN RECEIVING CONDENSATE FROM ICE MAKERS AND MECHANICAL EQUIPMENT WITH 1" FIBERGLASS WITH A VAPOR BARRIER JACKET AND VAPOR BARRIER HYDRALIC INSULATING CEMENT, FOR A DISTANCE OF 20'-2". INSTALL AS SPECIFIED FOR HOT WATER INSULATION.
- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING BELOW SLAB CONDITIONS AND CONFLICTS PRIOR TO BEGINNING ALL WORK. X-RAY AND CAMERA INVESTIGATIONS SHOULD BE PERFORMED TO DETERMINE BELOW SLAB OBSTRUCTIONS INCLUDING STRUCTURE, PIPING, ETC. CONTRACTOR TO NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY OBSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO CUTTING AND/OR CORING OF SLAB. DO NOT CUT, CORE, ALTER OR MANIPULATE SLAB IF SLAB IS POST-TENSIONED.
- IF NECESSARY, ANY SLAB AND/OR STRUCTURAL X-RAYS OR SONIC IMAGING PERFORMED WILL BE SCHEDULED WITH THE OWNER IN WRITING 48 HOURS PRIOR TO COMMENCING WITH X-RAY OR SONIC IMAGING WORK.
- ALL INSULATION WILL HAVE A WATER BARRIER AT LEAST EVERY 18" AND AT EVERY VERTICAL 90°.
- ALL SOLUTION VALVES AND EQUIPMENT SHOULD BE REGIONALLY ACCESSIBLE AND ACCESS PANELS SHOULD BE PROVIDED WHEREEVER NECESSARY.
- ALL PENETRATIONS IN CONCRETE FLOOR SLAB AND CEILING EXISTING OR CREATED FOR NEW EQUIPMENT THAT WILL NOT BE USED SHALL BE FILLED AND PATCHED WITH MATERIAL TO MATCH THE SURROUNDING SLAB. ANY VARIANCES FROM THIS SHALL BE APPROVED BY LANDLORD.
- ALL PVC PIPING THAT IS EXISTING WILL BE PRICED FOR REMOVAL DURING THE BUILD-OUT. IT WILL BE PRICED FOR REPLACEMENT WITH CAST IRON PIPE EQUIVALENT. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO THE COMMENCEMENT OF ANY PROJECT REPRESENTATIVE AS AN OPTION FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY REPLACEMENT. NOT INCLUDED IN THE SCOPE OF WORK ON THE ORIGINAL PRINTS.
- REMOVE ABANDONED PLUMBING PIPING, EQUIPMENT, HANGERS, SUPPORTS, ETC., FROM FLENUM. ALL FLENUM AREAS SHALL BE INSPECTED AND CLEANED OF ALL DEBRIS AND TRASH PRIOR TO CEILING BEING REPLACED.
- DRAINS LOCATED IN THE TOE SPACE OF CABINET WORK SHALL BE PROVIDED WITH SOME TYPE OF ACCESSIBILITY TO ALLOW FOR CLEANING OF THE DRAIN LINE.
- ANY ADHESIVES, PAINTING, VARNISH OR FINISH APPLICATIONS OR USE OF ANY ODOOR PRODUCTS MATERIALS SHALL NOT BE DONE WITHOUT PRIOR APPROVAL BY THE OWNER REPRESENTATIVE AND/OR FACILITY MANAGEMENT. MANAGEMENT RESERVES THE RIGHT TO STOP THESE TYPES OF APPLICATIONS AT ANY TIME.
- ALL CONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND REPORT ALL ANOMALIES TO THE OWNERS REPRESENTATIVE AND/OR FACILITY MANAGEMENT FOR REVIEW.
- BEING PLUMBING TO FARTHEST POSSIBLE POINT OF USE. (RISER VALVE OR VALVE ON FLOOR AS FUTURE TRAP VALVES MUST HAVE PLUGS INSTALLED.)
- CONTRACTOR TO INSPECT ARCHITECTS PLANS AND ELEVATIONS FOR MODIFICATIONS TO CEILING HEIGHTS. CONTRACTOR TO FIELD VERIFY IF EXISTING PIPING WILL CONFLICT WITH NEW WASED CEILING PRIOR TO BIDDING. NOTIFY ENGINEER IF CONFLICTS ARE DISCOVERED.
- INSTALL PLASTIC NAMEPLATES, TAGS AND PLASTIC PIPE MARKERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AS PER ASME/A 3.1.
- IDENTIFY PIPING, CONCEALED OR EXPOSED WITH PLASTIC PIPE MARKERS. IDENTIFY SERVICE, FLOW DIRECTION AND PRESSURE. INSTALL IN CLEAR VIEW EACH VALVE AND TEE. AT EACH SIDE OF PENETRATION OF STRUCTURE OR ENCLOSURE AND AT EACH OBSTRUCTION.
- ALL WETTED SURFACES OF MATERIALS IN CONTACT WITH POTABLE DOMESTIC WATER SHALL MEET OR EXCEED STANDARD NSF-61 (NSF-61 LEAD CONTENT BY WEIGHT AND SHALL BE OF SILICON BRASS ALLOY, WHEN POSSIBLE, MANUFACTURED DOMESTICALLY).

**GRAPHIC SYMBOLS**

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
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- 17.
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10100 North Central Expressway  
Suite 300  
Columb, TX 75840  
714.283.8700  
714.283.8701  
www.perkinswill.com

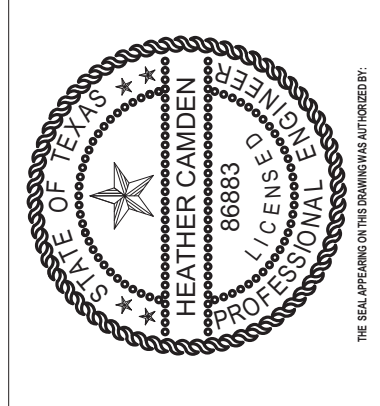
**CONSULTANTS**  
EAC ENGINEERS & CONSULTANTS INC.  
1100 LAMAR, SUITE 650  
HOUSTON, TX 77002  
OWNER  
UT MD ANDERSON  
1515 HOLCOMBE BLVD.,  
HOUSTON, TX 77030  
FACTORY  
CHARLES LEIBASTRE  
1515 HOLCOMBE BLVD.,  
HOUSTON, TX 77030



PROJECT  
04/16/2018

**UTMDA - R8 LEUKEMIA  
LAB RENOVATION**  
1515 HOLCOMBE BLVD.,  
HOUSTON, TX 77030

**UT MD ANDERSON**  
1515 HOLCOMBE BLVD.,  
HOUSTON, TX 77030  
KEPLMAN



EAC Engineers & Consultants Inc.  
Texas Firm Registration No. F-02558

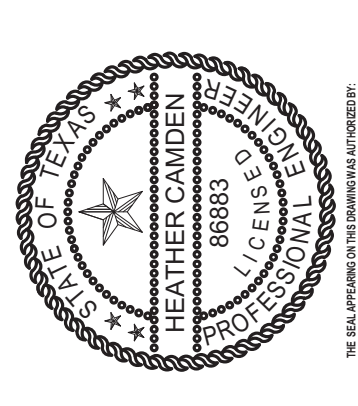
ISSUE CHART

NO.	FOR REVIEW	DATE
Job Number	1827158.005	
Drawn	Author	
Checked	Checker	
Approved	Approver	

TITLE  
**PLUMBING  
ABBREVIATIONS AND  
SYMBOLS**  
SHEET NUMBER

**P 0.00**



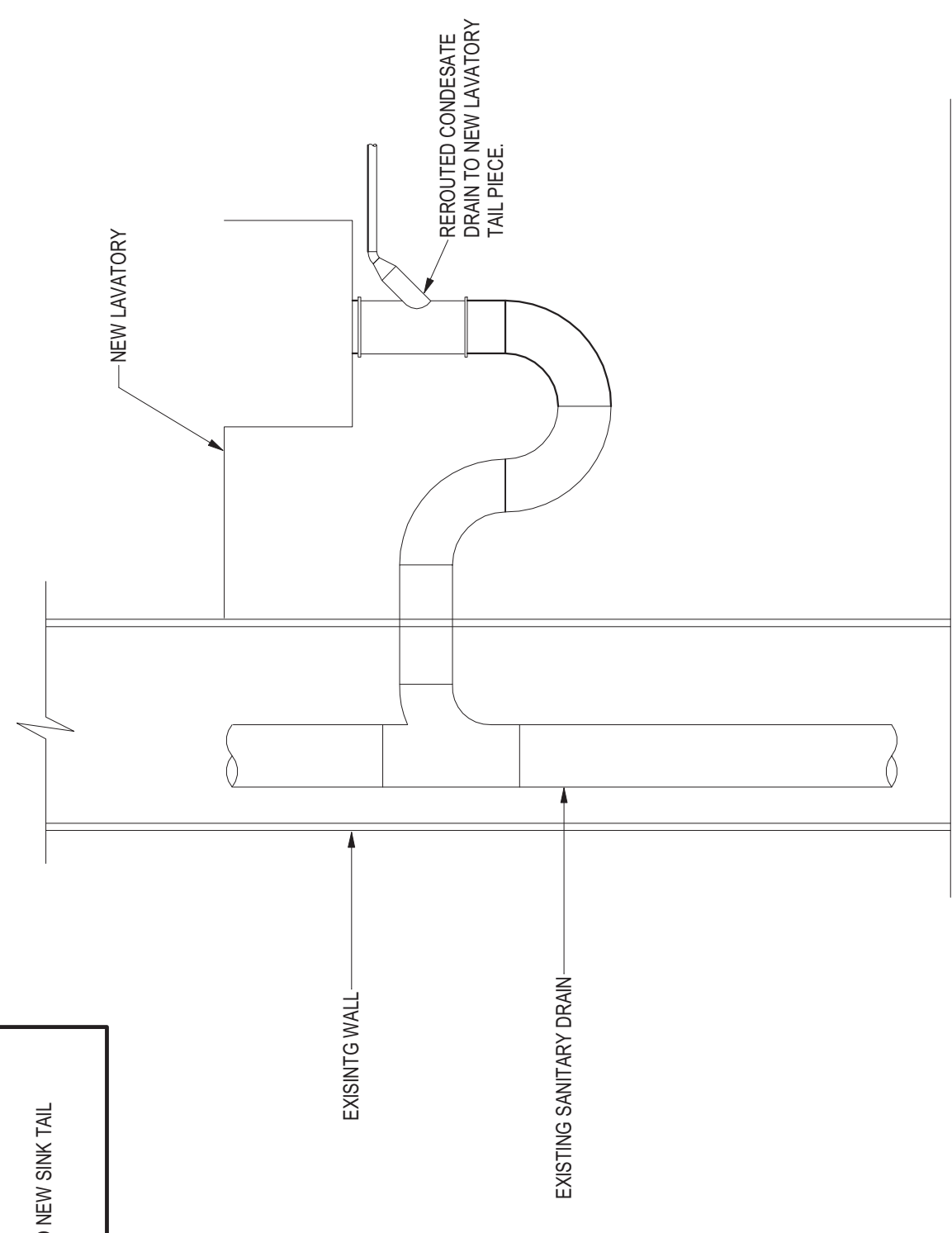


Job Number	1827158.005
Drawn	Author
Checked	Checker
Approved	Approver
TITLE	

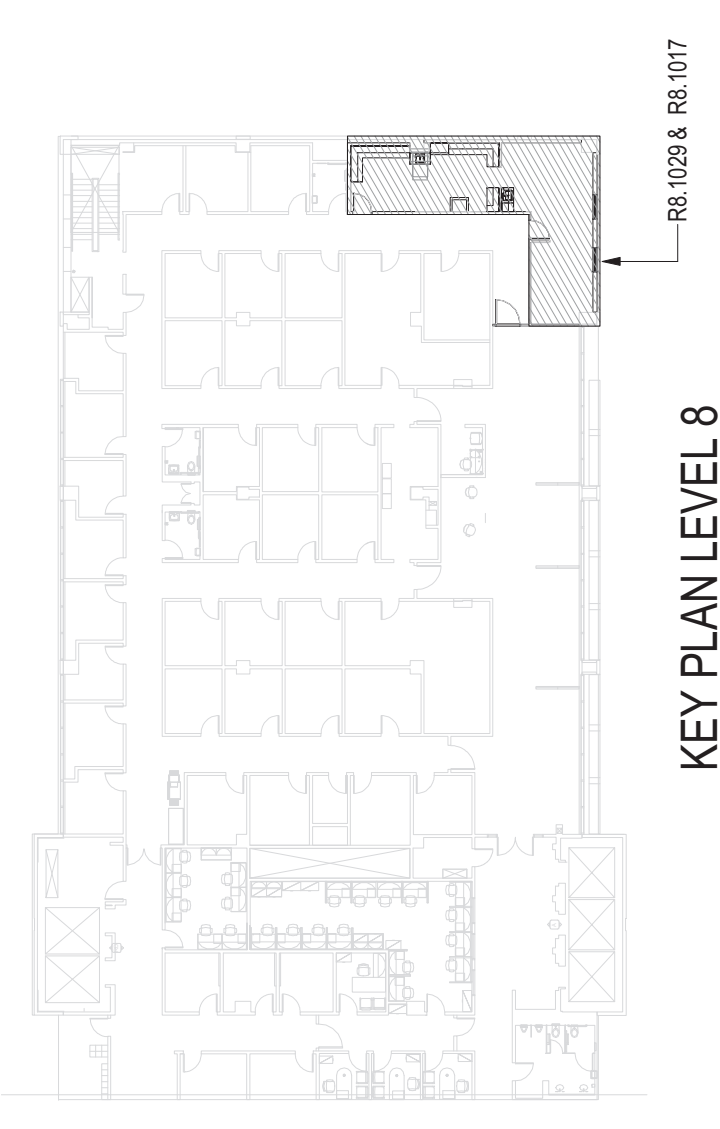


**1 LEVEL 08 PLUMBING RENOVATION PLAN**  
SCALE: 1/4" = 1'-0"

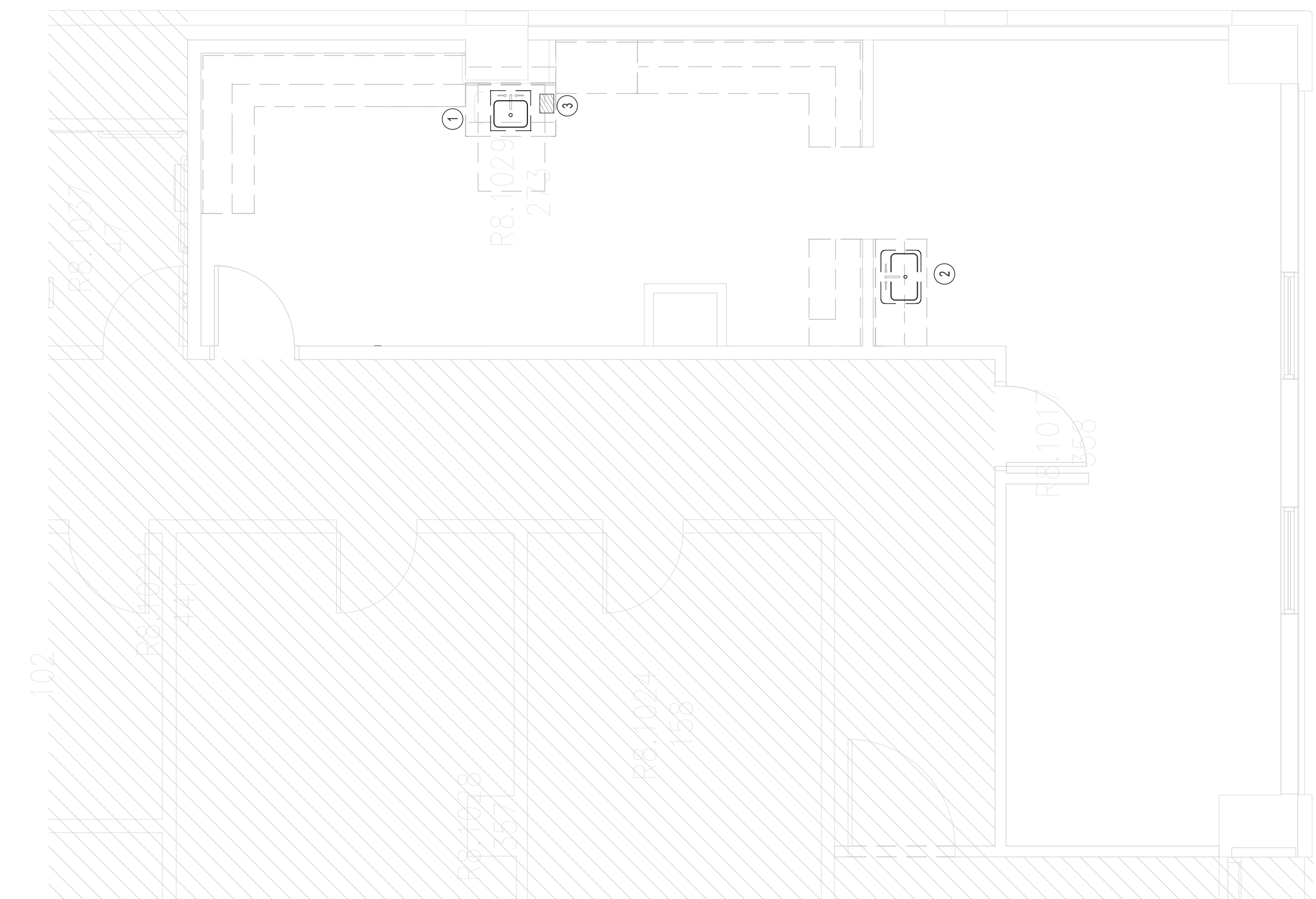
- RENOVATION DRAWING NOTES**
1. NEW SINK TO BE RECONNECTED TO SANITARY DRAIN AND WATER SERVICE. RE-ARCHITECT'S PLANS FOR SINK TYPE AND ACCESSORY SCHEDULE.
  2. EXISTING CONDENSATE DRAIN TO BE REROUTED TO NEW SINK TAIL PIECE CONNECTION. RE DETAIL 3.



**3 TAIL CONNECTOR DETAIL**  
SCALE: N.T.S.



KEY PLAN LEVEL 8



**2 LEVEL 08 PLUMBING DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"

- DEMOLITION DRAWING NOTES**
1. REMOVE EXISTING SINK, DRAIN AND VENT TO BE REMOVED AND CAPPED AT MAIN SANITARY AND VENT LINE. COLD AND HOT WATER LINE TO BE REMOVED AND CAPPED AT TOP OF MAIN.
  2. REMOVE EXISTING SINK, DISCONNECT FROM SANITARY AND WATER SERVICE.
  3. FLOOR DRAIN TO BE REMOVED AND CAPPED. REROUTE CONDENSATE DRAIN TO NEW LAVATORY TAIL PIECE CONNECTION. REFER TO RENOVATION PLAN FOR MORE INFORMATION.