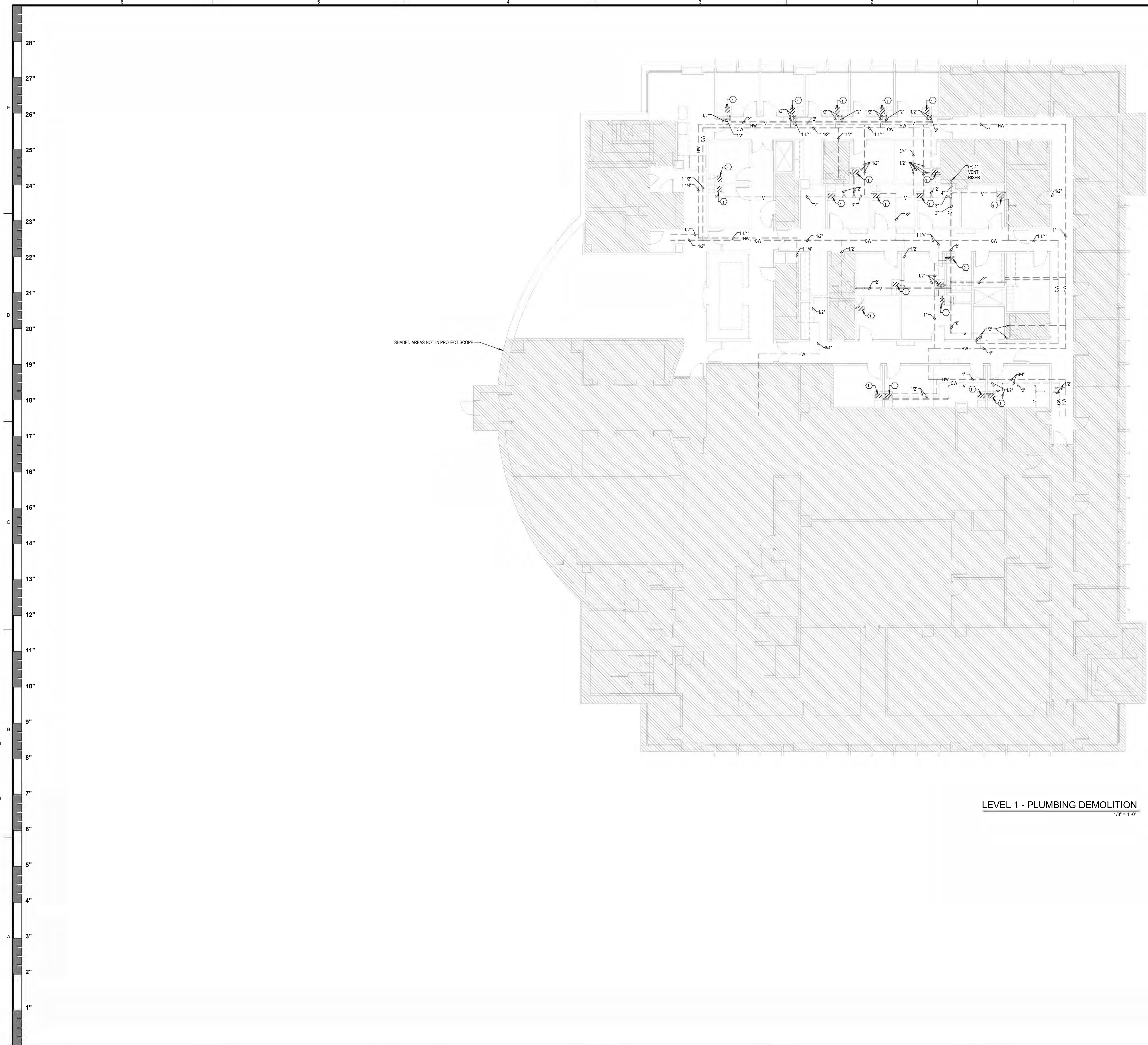


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SHADED AREAS NOT IN PROJECT SCOPE

NOTES BY SYMBOL: " O"

- 1 REMOVE EXISTING SINK. REMOVE EXISTING UTILITIES BACK TO WALL AND PREPARE FOR FUTURE CONNECTION.
- 2 REMOVE EXISTING SINK. REMOVE (E) CW AND HW LINES BACK TO ABOVE CEILING AND PREPARE FOR FUTURE CONNECTION. REMOVE (E) W DOWN TO FLOOR AND PLUG. REMOVE (E) V BACK TO MAIN ABOVE CEILING AND PLUG.

SHEET NOTES:

- 1. REFER TO SHEET P201 FOR PLUMBING GENERAL NOTES AND LEGEND.
- 2. THIS BUILDING OUTSIDE THE PROJECT AREA WILL BE OCCUPIED DURING THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CAREFULLY COORDINATE AND SCHEDULE ANY REQUIRED SHUTDOWNS WITH THE UNIVERSITY TO MINIMIZE DISTURPTIONS TO BUILDING OCCUPANTS.

LEVEL 1 - PLUMBING DEMOLITION 1 1/8" = 1'-0"



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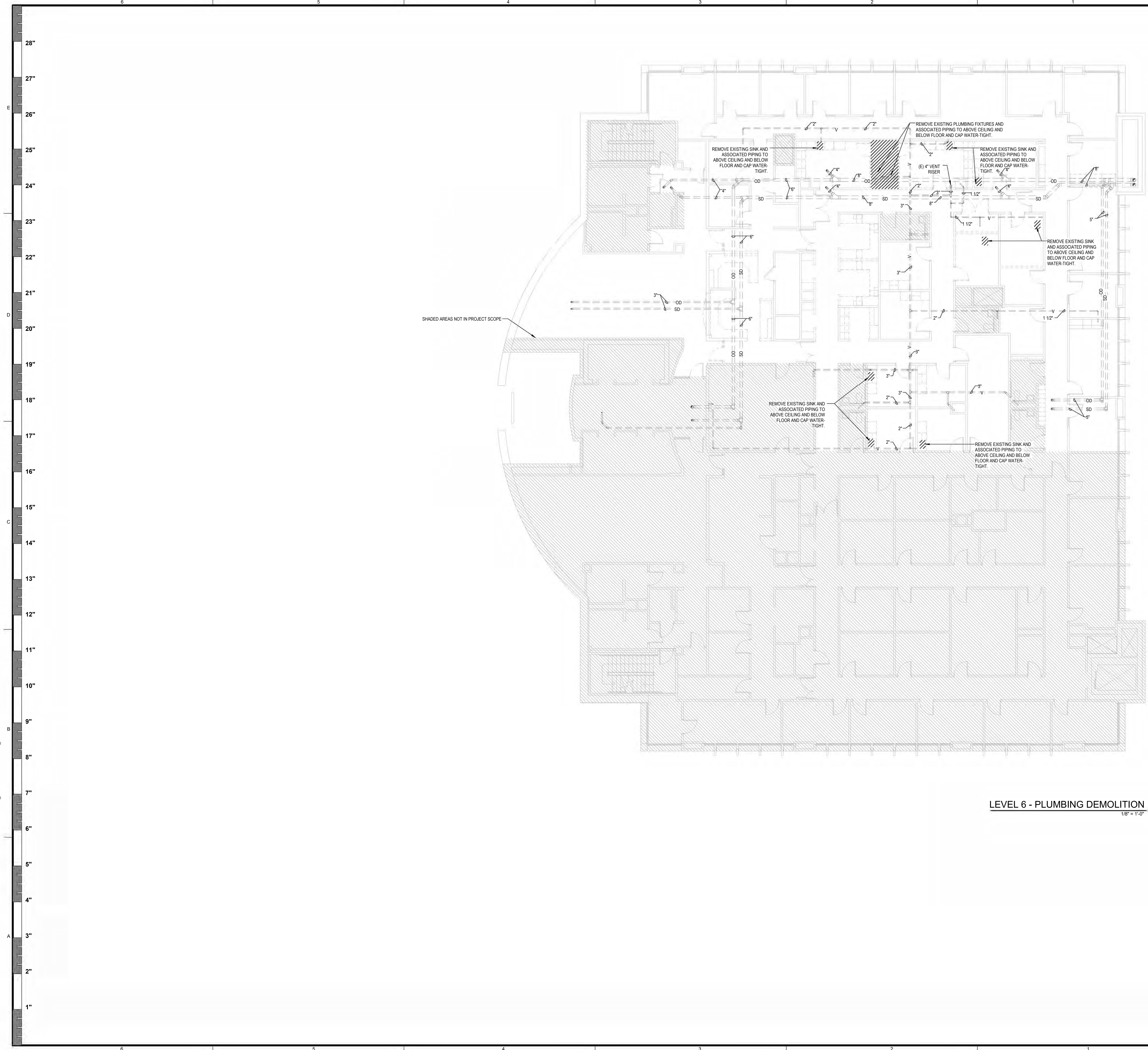
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PD101

LEVEL 1 FLOOR PLAN - PLUMBING DEMOLITION

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- SHEET NOTES:**
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 - THIS BUILDING OUTSIDE THE PROJECT AREA WILL BE OCCUPIED DURING THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CAREFULLY COORDINATE AND SCHEDULE ANY REQUIRED SHUTDOWNS WITH THE UNIVERSITY TO MINIMIZE DISTURPTIONS TO BUILDING OCCUPANTS.



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LEVEL 6 - PLUMBING DEMOLITION 1

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PD102

LEVEL 6 FLOOR PLAN - PLUMBING DEMOLITION

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LEVEL 1 FLOOR PLAN - PLUMBING

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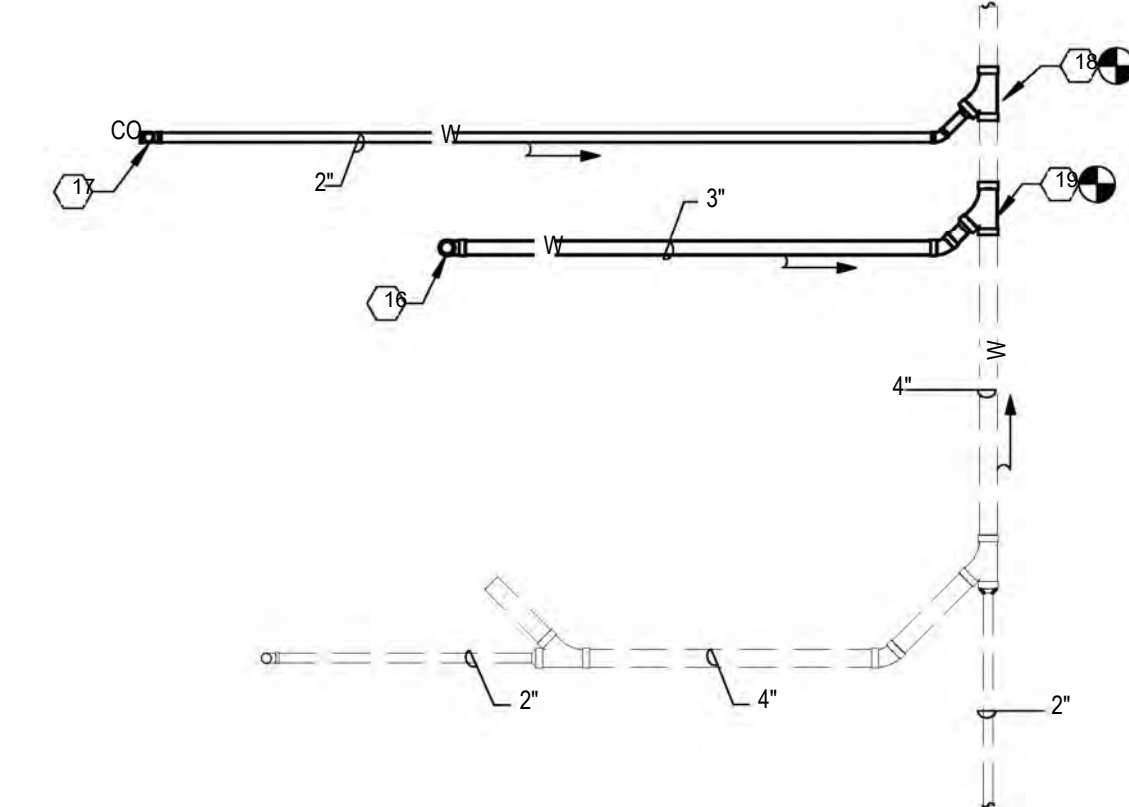
NOTES BY SYMBOL

- ROUTE 1/2" CW UP TO ICE MAKER. PROVIDE ISOLATION BALL VALVE PRIOR TO FINAL CONNECTION. COORDINATE FINAL LOCATION WITH OWNER AND ARCHITECT. EXTEND FULL SIZE DRAIN LINE FROM ICE MAKER AND DISCHARGE INDIRECTLY INTO HUB DRAIN.
- PROVIDE AND INSTALL ELECTRONIC TRAP PRIMER ASSEMBLY IN WALL WITH ACCESS PANEL. TRAP PRIMER ASSEMBLY AND ACCESS PANEL SHALL BE LOCATED IN AN ACCESSIBLE LOCATION AND FINAL LOCATION SHALL BE COORDINATED WITH ARCHITECT. TRAP PRIMER ASSEMBLY SHALL BE MANUFACTURED BY PRECISION PLUMBING PRODUCT OR EQUAL. FIELD VERIFY FINAL LOCATION TO PROVIDE ADEQUATE MAINTENANCE ACCESSIBILITY AND FOR TRAP PRIMER PIPING TO SLOPE TO DRAIN FIXTURES. CONFIRM ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- PROVIDE AND INSTALL ISOLATION BALL VALVE.
- EXTEND NEW 3/4" CW FROM (E) 1-1/4" CW ABOVE CEILING AND CONTINUE AS SHOWN.
- ROUTE 3" W DOWN TO FLOOR BELOW AND 2" V UP IN WALL TO ABOVE CEILING AND CONTINUE AS SHOWN. COORDINATE LOCATION WITH EXISTING INFRASTRUCTURE WITHIN CHASE.
- ROUTE 3/4" CW DOWN IN WALL TO RPZ BACKFLOW PREVENTER. PROVIDE AND INSTALL FOLLETT R097/R097 IN-LINE WATER FILTER ON OUTLET OF RPZ. ROUTE 3/4" CW FROM WATER FILTER AND EXTEND 1/2" CW LINE TO ICE MAKER. EXTEND FULL SIZE DRAIN FROM RPZ BACKFLOW PREVENTER AND DISCHARGE INDIRECTLY INTO HUB DRAIN. COORDINATE ANY REQUIRED MILLWORK PENETRATIONS WITH ARCHITECT.
- ROUTE 3/4" CW DOWN IN WALL TO TRAP PRIMER ASSEMBLY. ROUTE (1) 1/2" TRAP PRIMER LINE DOWN FROM TRAP PRIMER ASSEMBLY TO HUB DRAIN PRIMER TAP CONNECTION. COORDINATE ANY REQUIRED MILLWORK PENETRATIONS WITH ARCHITECT.
- CONNECT NEW 2" V TO (E) 2" V ABOVE CEILING.
- EXTEND (E) 1/2" CW, 1/2" HW, 2" W, AND 2" V PIPING IN WALL TO NEW SINK.
- ROUTE 1/2" CW AND 1/2" HW DOWN IN WALL TO NEW SINK. ROUTE 2" W DOWN FROM SINK AND CONTINUE IN WALL AND CONNECT TO (E) 2" W IN EXAM 111 WALL ABOVE FLOOR. ROUTE 2" V PIPING UP IN WALL TO ABOVE CEILING AND CONTINUE AS SHOWN.
- EXTEND 1/2" CW FROM (E) 1/2" CW ABOVE CEILING AND CONTINUE AS SHOWN.
- EXTEND 1/2" HW FROM (E) 1/2" HW ABOVE CEILING AND CONTINUE AS SHOWN.
- EXTEND 2" V FROM (E) 2" V ABOVE CEILING AND CONTINUE AS SHOWN.
- EXTEND 1/2" CW FROM (E) 1-1/2" CW ABOVE CEILING AND CONTINUE AS SHOWN.
- EXTEND 1/2" HW FROM (E) 1-1/4" HW ABOVE CEILING AND CONTINUE AS SHOWN.
- ROUTE 3" W DOWN FROM ABOVE AND CONTINUE AS SHOWN. PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE WITHIN PARKING GARAGE.
- ROUTE 2" W DOWN FROM ABOVE AND CONTINUE AS SHOWN. PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE WITHIN PARKING GARAGE.
- CONNECT NEW 2" W TO (E) 4" W ABOVE CEILING WITHIN PARKING GARAGE.
- CONNECT NEW 3" W TO (E) 4" W ABOVE CEILING WITHIN PARKING GARAGE.
- ROUTE 1/2" CW AND 1/2" HW DOWN IN WALL TO NEW SINK. ROUTE 2" W DOWN AND CONTINUE AS SHOWN. ROUTE 2" V PIPING UP IN WALL TO ABOVE CEILING AND CONTINUE AS SHOWN.
- ROUTE 2" W DOWN TO FLOOR BELOW. COORDINATE LOCATION WITH EXISTING INFRASTRUCTURE WITHIN CHASE.

SHEET NOTES:

- REFER TO SHEET P201 FOR PLUMBING GENERAL NOTES AND LEGEND.
- THIS BUILDING OUTSIDE THE PROJECT AREA WILL BE OCCUPIED DURING THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CAREFULLY COORDINATE AND SCHEDULE ANY REQUIRED SHUTDOWNS WITH THE UNIVERSITY TO MINIMIZE DISTURBANCES TO BUILDING OCCUPANTS.
- THIS BUILDING CONTAINS A POST TENSION SLAB. CONTRACTOR SHALL SCAN SLAB FOR POST TENSION RODS PRIOR TO ANY FLOOR PENETRATIONS.

LEVEL 1 - PLUMBING
 1/8" = 1'-0" 1



UNDERFLOOR PLAN (LAB 138 & BREAKROOM 139) - PLUMBING
 1/4" = 1'-0" 2



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BACKFLOW PREVENTER SCHEDULE				
TAG	LOCATION	SIZE	MANUFACTURER	MODEL NO.
BEZ-1	REAR ROOM 138	3/4"	WATTS	LF09-QT-S

NOTES:

- INSTALL BACKFLOW PREVENTERS IN AN ACCESSIBLE LOCATION.
- PROVIDE A MINIMUM CLEARANCE OF 24" OF FREE AREA IN FRONT OF BACKFLOW PREVENTER FOR ACCESSIBILITY.
- PROVIDE ALL BACKFLOW PREVENTERS WITH SEDIMENT STRAINER, ISOLATION VALVES, AIR GAP, AND FULL-SIZE DRAIN PIPING.
- BACKFLOW PREVENTER SHALL BE CERTIFIED AND SUBMITTED TO THE CITY OF FORT WORTH, UNTHSC, AND ALL AUTHORITIES HAVING JURISDICTION.

PLUMBING FIXTURE SCHEDULE					
TAG	FIXTURE	C	H	W	V
S-1	SINGLE COMPARTMENT SINK UNDERMOUNT, ACCESSIBLE	12"	12"	2"	2"
S-2	SINGLE COMPARTMENT SINK COUNTERTOP, ACCESSIBLE	12"	12"	2"	2"
HD-1	HUB DRAIN	-	-	SEE PLAN	2"

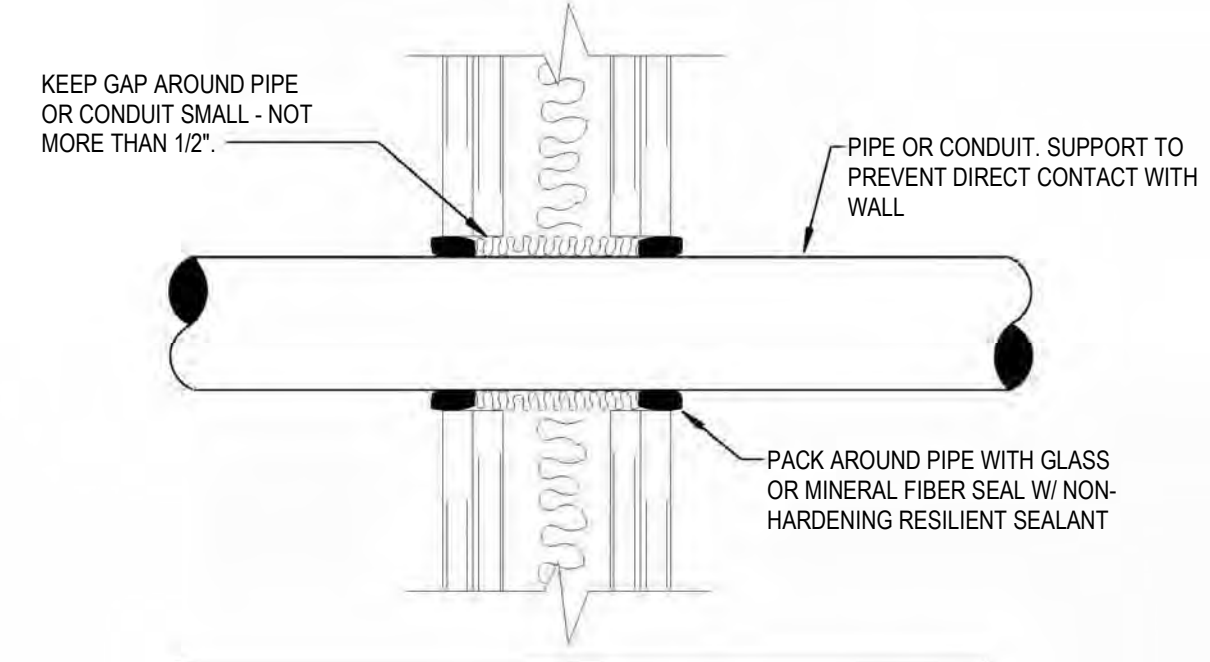
NOTES:

- ALL FIXTURES SHALL MEET LOW WATER CONSUMPTION REQUIREMENTS.
- PROVIDE STOPS AT ALL FIXTURES.
- PROVIDE A COMPLETE ELECTRONIC TRAP PRIMER SYSTEM FOR ALL HUB DRAINS AS REQUIRED BY LOCAL CODE.
- ACCESSIBLE FIXTURES SHALL BE MOUNTED AND INSTALLED PER TAS.
- FIELD VERIFY TRAP PRIMER QUANTITY AND LOCATION TO COMPLY WITH MANUFACTURERS INSTALLATION REQUIREMENTS FOR DRAINAGE PIPE SLOPING.
- PROVIDE TRUE-BRO "LAV-GUARD" INSULATION KIT FOR EXPOSED PIPING AT ALL ACCESSIBLE SINKS AND LAVS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL TAS & ADA REQUIRED MOUNTING HEIGHTS FOR PLUMBING FIXTURES.

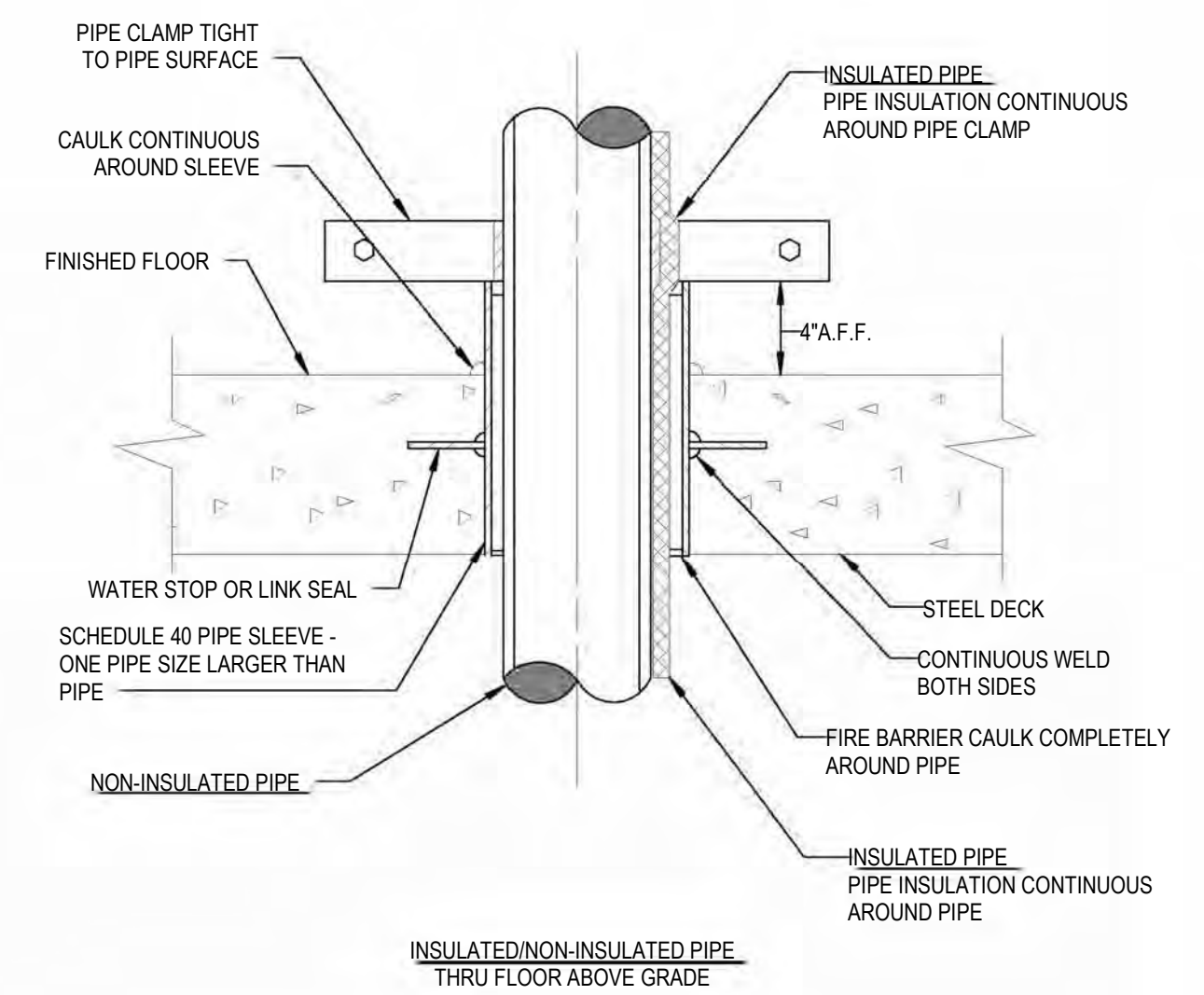
- ### PLUMBING GENERAL NOTES
- FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED TO PROVIDE AND OPERABLE PLUMBING SYSTEMS WITH ALL ITEMS AND APURTENANCES NECESSARY, EVEN THOUGH NOT SPECIFICALLY CALLED OUT.
 - ALL WORK AND/OR MATERIAL SHALL BE INSTALLED BY A LICENSED CONTRACTOR.
 - ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO THE OWNER.
 - CROSS-CONNECTIONS OF ANY FIXTURE, DEVICE OR CONSTRUCTION WHICH WILL PERMIT BACKFLOW CONNECTIONS BETWEEN A WATER DISTRIBUTION SYSTEM AND ANY PART OF THE DRAINAGE SYSTEM SHALL NOT BE INSTALLED.
 - PLUMBING FIXTURES SHALL BE AS SCHEDULED. ALL HANDICAP FIXTURE INSTALLATIONS SHALL BE IN COMPLIANCE WITH ADA AND TAS (TAS ACCESSIBILITY STANDARDS). CONFIRM EXACT LOCATIONS OF ALL PLUMBING FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION. ALL FIXTURES SHALL BE COMPLETE WITH ALL NECESSARY TRIM. ALL EXPOSED METAL PARTS SHALL BE CHROME PLATED BRASS.
 - CONFIRM ROUGH-IN REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO INSTALLATION.
 - COORDINATE EXACT ROUTING OF ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF WORK.
 - PROVIDE ELECTRONIC TRAP PRIMERS ALL HUB DRAINS.
 - PROVIDE FACTORY MANUFACTURED WATER HAMMER ARRESTORS WHERE REQUIRED AND/OR INDICATED ON THE DRAWINGS.
 - CONTRACTOR SHALL CONFIRM DEPTHS OF EXISTING SEWER LINES AND CONFIRM ADEQUACY FOR CONNECTION OF NEW SYSTEM. THE ENGINEER SHALL BE NOTIFIED IF THE REQUIRED SLOPES CAN NOT BE MAINTAINED. PRIOR TO INSTALLATION OF ANY NEW PIPING.
 - ALL WATER PASSING THROUGH CONCRETE FLOOR SLABS SHALL BE COMPLETELY ISOLATED FROM THE CONCRETE BY ENCASEMENT IN 1/2" THICK FLEXIBLE FOAM PLASTIC INSULATION FROM WELL BELOW THE BOTTOM OF THE CONCRETE SLAB UP TO TWO INCHES ABOVE THE SLAB.
 - ALL EXPOSED PASSING THROUGH FLOORS, CEILINGS OR WALLS SHALL BE PROVIDED WITH APPROVED PLATES OF SUFFICIENT DIAMETER TO COVER THE SLEEVE OPENING AND FIT SNUGLY AROUND THE PIPE.
 - THIS CONTRACTOR SHALL FURNISH ALL SUPPORTS REQUIRED FOR HIS EQUIPMENT AND MATERIAL. ALL HORIZONTAL RUNS OF PIPING SHALL BE SUPPORTED BY PIPE HANGERS SPACED NOT MORE THAN 10 FEET APART FOR PIPES 1-1/4" AND LARGER, AND 8' FOR PIPES SMALLER THAN 1-1/4". AND AT EACH JOINT FOR SOIL OR WASTE PIPE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. HANGERS FOR COPPER PIPE SHALL HAVE NYLON INSULATED BUSHINGS OR PIPE SHALL BE WRAPPED WITH 15# FELT.
 - CLEANOUTS BE PROVIDED WHERE INDICATED ON THE DRAWINGS, OR WHERE REQUIRED, TO PROVIDE ACCESS TO ALL LINES AND AT HORIZONTAL RUN AT INTERVALS NOT EXCEEDING 80 FEET IN ALL SOIL, WASTE AND DRAIN LINES. CLEANOUTS SHALL BE SAME AS PIPE EXCEPT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED.
 - DO NOT INSTALL PVC PIPING IN ANY RETURN AIR PLENUMS.

PLUMBING LEGEND

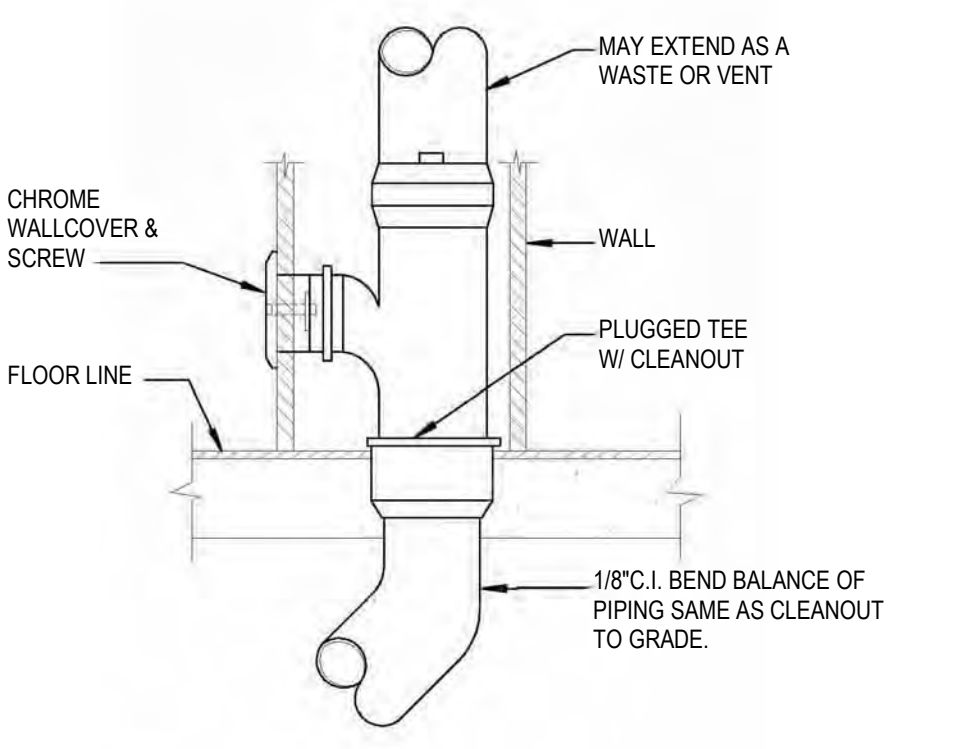
— C —	COLD WATER (CW)	—	CAP END OF LINE
— H —	HOT WATER (110°F HW)	—	RISER DOWN
— R —	HOT WATER RETURN	—	RISER UP
— 140° —	HOT WATER (140°F HW)	—	PIPE ANCHOR
— 180° —	HOT WATER (180°F HW)	—	PLUG CLEANOUT
— W —	WASTE (SANITARY SEWER)	—	VALVE IN VERTICAL
— SD —	STORM DRAIN	—	FLEXIBLE CONNECTION
— OD —	OVERFLOW DRAIN	—	DIRECTION OF FLOW
— AW —	ACID WASTE	—	DIRECTION OF PITCH (DOWN)
— GW —	GREASE WASTE	—	HOSE BIBB
— CD —	CONDENSATE DRAIN	—	FLOOR DRAIN
— V —	VENT	—	FLOOR SINK (FULL OR HALF GRATE AS SPECIFIED)
— AV —	ACID VENT	—	ROOF DRAIN
— G —	GAS	—	OVER FLOW DRAIN
— GV —	GATE VALVE	—	HUB DRAIN
— BV —	BALL VALVE	—	TRENCH DRAIN
— CV —	CHECK VALVE	—	FIRE RISER
— BLV —	BALANCE VALVE	—	PETE'S PLUG (PT PORT)
— MSV —	MOTORIZED SHUTOFF VALVE	—	GAUGE COCK
— MCV —	MODULATING CONTROL VALVE	—	GAUGE
— TMCV —	THREE-WAY MODULATING CONTROL VALVE	—	THERMOMETER
— BVV —	BUTTERFLY VALVE	—	PIPE WELL
— S —	STRAINER	—	THERMOMETER WELL
— PV —	PLUG VALVE	—	CONNECT TO EXISTING
— GPR —	GAS PRESSURE REGULATOR	—	CLEANOUT
— U —	UNION	—	FCO FLOOR CLEANOUT
— CA —	COMPRESSED AIR	—	WCO WALL CLEANOUT
— VAC —	VACUUM	—	GCO GRADE CLEANOUT
— A —	AIR	—	DGCO DOUBLE GRADE CLEANOUT
— O —	OXYGEN	—	EWC ELECTRIC WATER COOLER
— N —	NITROGEN	—	NFHW NON-FREEZE WALL HYDRANT
— NO —	NITROUS OXIDE	—	WHA WATER HAMMER ARRESTOR
— VAC (E) —	VACUUM (E) AIR	—	VTR VENT THRU ROOF
— A (E) —	AIR (E) OXYGEN	—	AVTR ACID VENT THRU ROOF
— O (E) —	OXYGEN (E) NITROGEN	—	SD STORM DRAIN
— N (E) —	NITROGEN (E) NITROUS OXIDE	—	W WASTE
— NO (E) —	NITROUS OXIDE (E) FIRE PROTECTION PIPE	—	DS DOWNSPOUT
— F —	FIRE PROTECTION PIPE	—	AFF ABOVE FINISHED FLOOR
—	EXISTING UTILITY	—	EA EACH
—	ITEM TO BE REMOVED	—	IE INVERT ELEVATION
—		—	(E) EXISTING



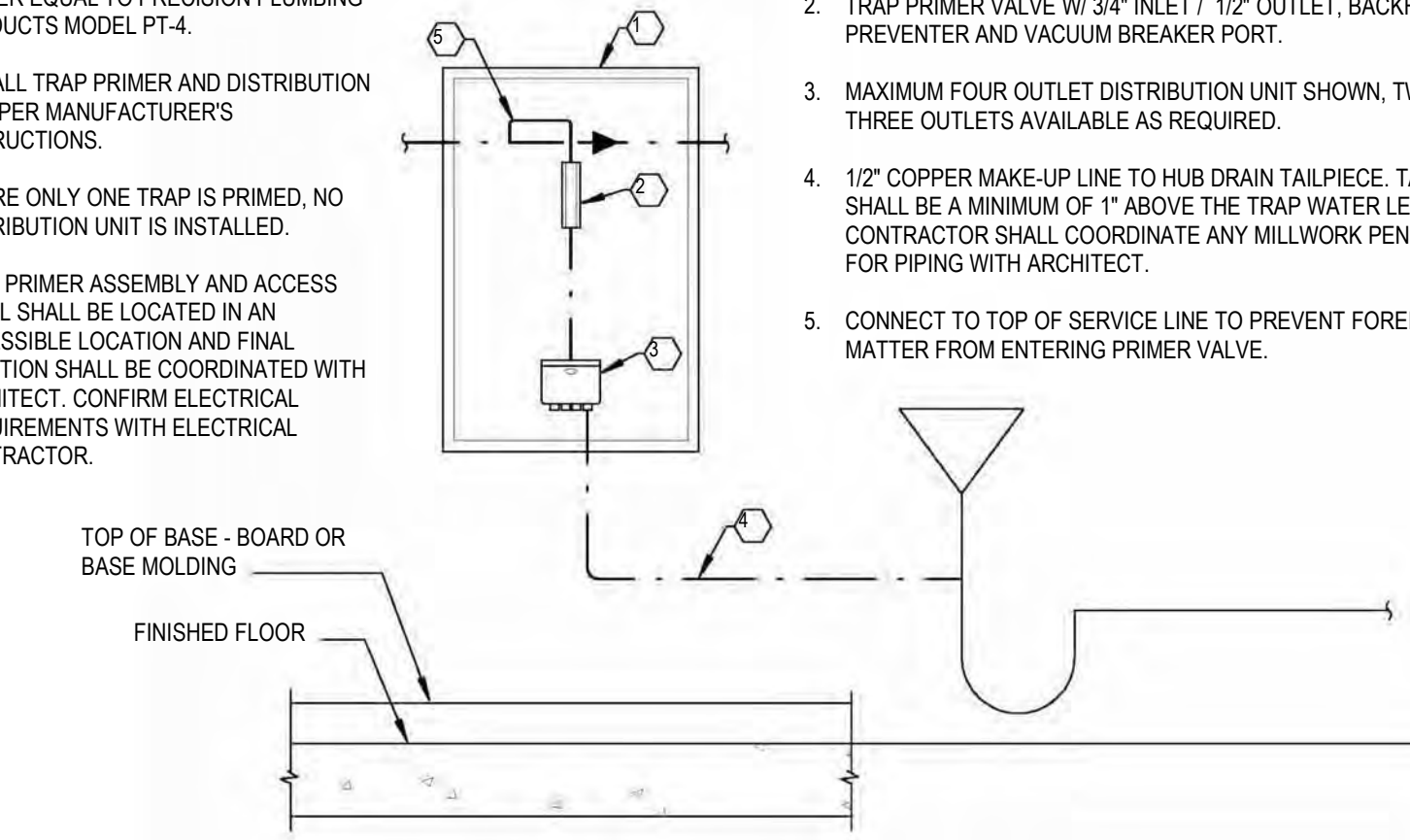
PIPE PENETRATING DRYWALL 1
NOT TO SCALE



PIPE FLOOR SLEEVE DETAIL 2
NOT TO SCALE



WALL CLEANOUT DETAIL 3
NOT TO SCALE



TRAP PRIMER VALVE DETAIL 4
NOT TO SCALE

- ### NOTES BY SYMBOL: "C"
- ACCESS PANEL SHALL BE LARGE ENOUGH TO RENDER WORK ACCESS TO THE INSTALLATION. TRAP PRIMER ASSEMBLY AND ACCESS PANEL SHALL BE LOCATED IN AN ACCESSIBLE LOCATION. FIELD VERIFY FINAL LOCATION TO PROVIDE ADEQUATE MAINTENANCE ACCESSIBILITY AND FOR TRAP PRIMER PIPING TO SLOPE TO DRAIN FIXTURES. CONTRACTOR SHALL COORDINATE ANY MILLWORK PENETRATIONS FOR PIPING WITH ARCHITECT.
 - TRAP PRIMER VALVE W/ 3/4" INLET / 1/2" OUTLET, BACKFLOW PREVENTER AND VACUUM BREAKER PORT.
 - MAXIMUM FOUR OUTLET DISTRIBUTION UNIT SHOWN. TWO AND THREE OUTLETS AVAILABLE AS REQUIRED.
 - 1/2" COPPER MAKE-UP LINE TO HUB DRAIN TALLIED. TAPPING SHALL BE A MINIMUM OF 1" ABOVE THE TRAP WATER LEVEL. CONTRACTOR SHALL COORDINATE ANY MILLWORK PENETRATIONS FOR PIPING WITH ARCHITECT.
 - CONNECT TO TOP OF SERVICE LINE TO PREVENT FOREIGN MATTER FROM ENTERING PRIMER VALVE.



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PLUMBING SCHEDULES AND DETAILS

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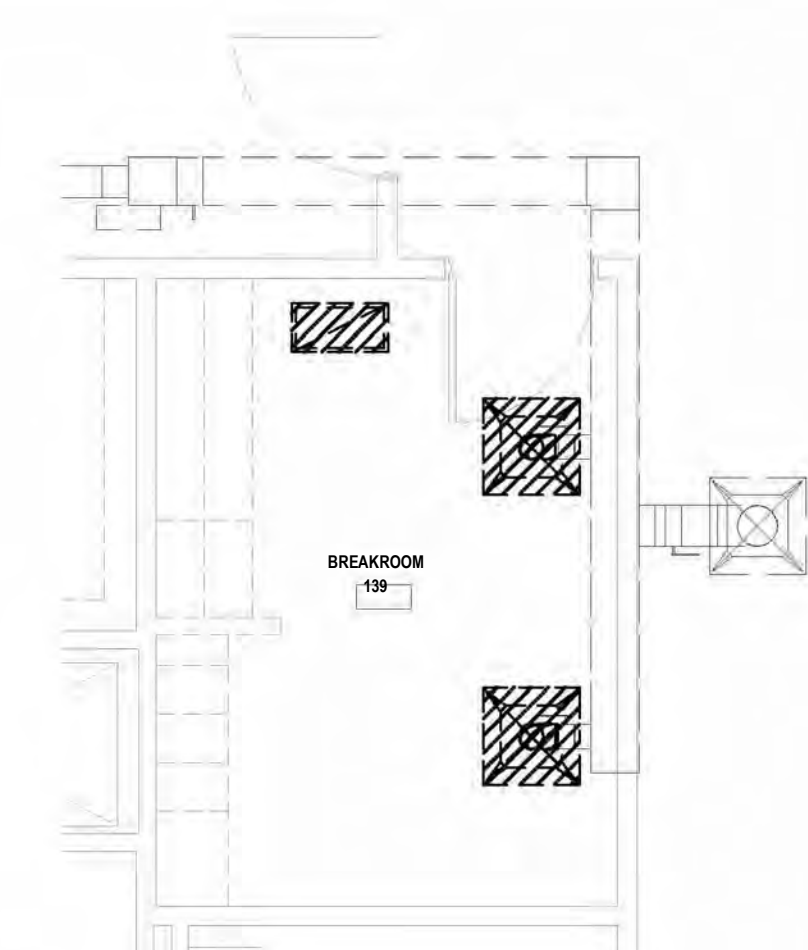


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LEVEL 6 - DEMOLITION FLOOR PLAN 2



LEVEL 1 - DEMOLITION FLOOR PLAN 1

- SHEET NOTES:**
1. CONTRACTOR SHALL REMOVE ALL DUCTWORK, AIR DEVICES, AND DAMPERS AS SHOWN. CONTRACTOR SHALL PREPARE ALL DUCTWORK TO REMAIN FOR FUTURE CONNECTION AND CAP AIR-TIGHT WHERE REQUIRED. ALL DUCTWORK THAT IS NO LONGER TO BE USED SHALL BE REMOVED. NO ABANDONED DUCTWORK IS ALLOWED.
 2. ALL EXISTING DUCTWORK TO REMAIN SHALL BE CLEANED AND PRESSURE TESTED.
 3. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING PIPING AND DUCTWORK AND NOTIFY THE DESIGN TEAM IF THERE ARE ANY CONFLICTS WITH NEW WALL LOCATIONS PRIOR TO COMMENCING WORK.
 4. REFER TO SHEET M201 FOR MECHANICAL GENERAL NOTES AND LEGEND.
 5. THIS BUILDING OUTSIDE THE PROJECT AREA WILL BE OCCUPIED DURING THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CAREFULLY COORDINATE AND SCHEDULE ANY REQUIRED SHUTDOWNS WITH THE UNIVERSITY TO MINIMIZE DISRUPTIONS TO BUILDING OCCUPANTS.



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MD101

LEVEL 1 & 6 FLOOR PLAN - MECHANICAL DEMOLITION

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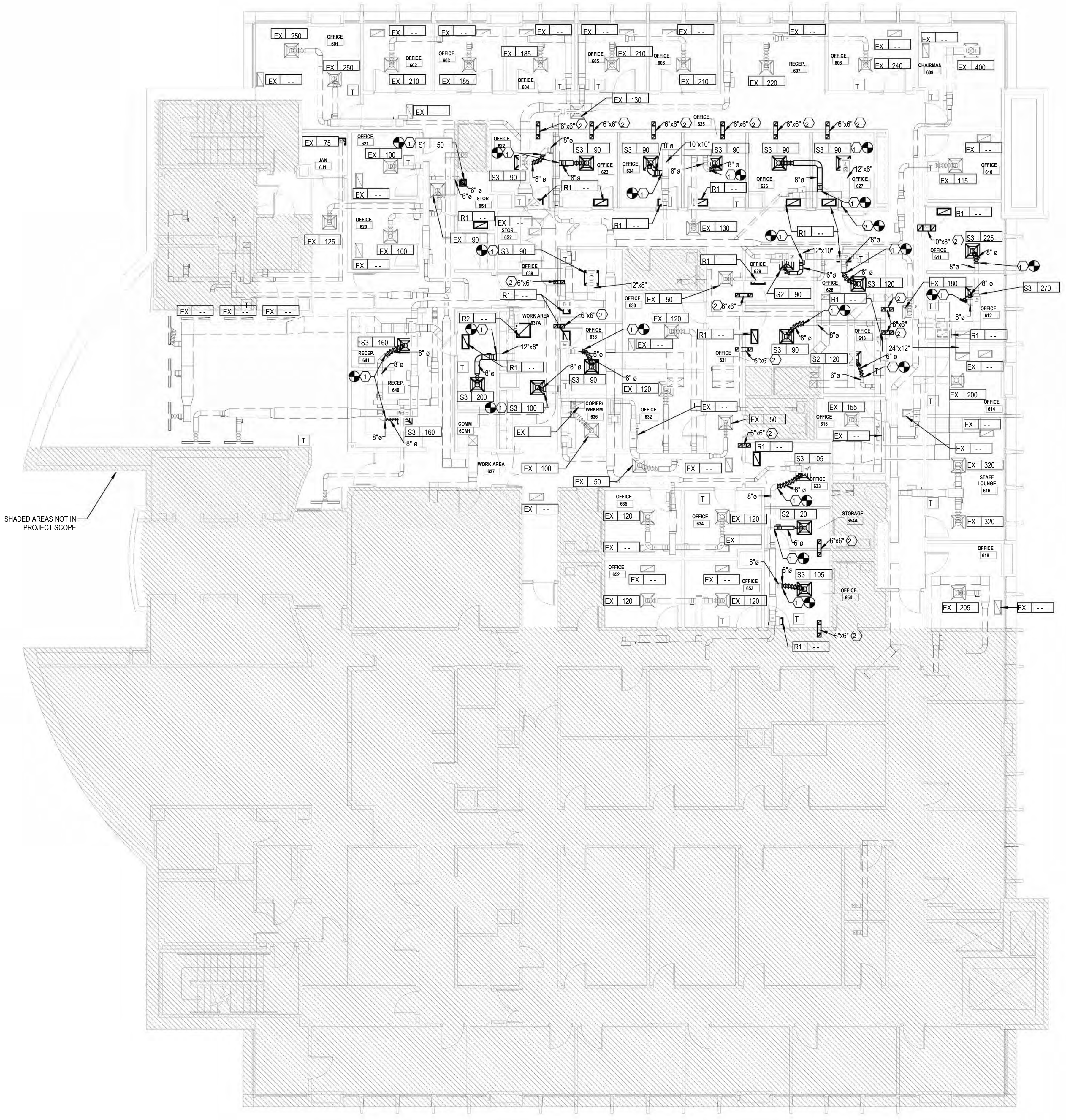
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LEVEL 1 & 6 FLOOR PLAN - MECHANICAL

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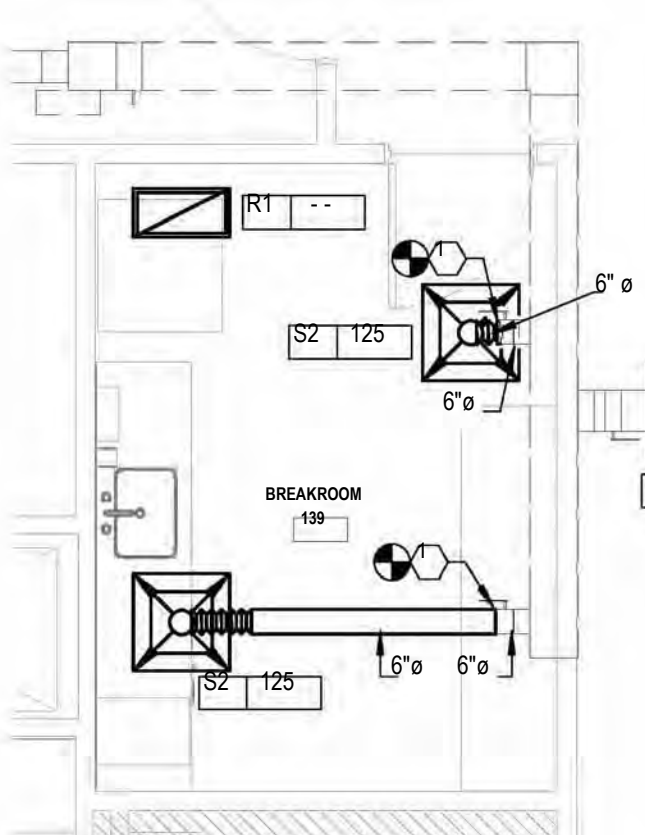
- SHEET NOTES:**
- REFER TO SHEET M201 FOR MECHANICAL GENERAL NOTES AND LEGEND.
 - ALL EXISTING DUCTWORK TO REMAIN SHALL BE CLEANED AND PRESSURE TESTED.
 - REFER TO ARCHITECTURAL DRAWINGS FOR FIRE AND SMOKE RATED PARTITIONS AND ASSOCIATED REQUIREMENTS.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING PIPING AND DUCTWORK AND NOTIFY THE DESIGN TEAM IF THERE ARE ANY CONFLICTS WITH NEW WALL LOCATIONS PRIOR TO COMMENCING WORK.
 - THIS BUILDING OUTSIDE THE PROJECT AREA WILL BE OCCUPIED DURING THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CAREFULLY COORDINATE AND SCHEDULE ANY REQUIRED SHUTDOWNS WITH THE UNIVERSITY TO MINIMIZE DISTURBANCES TO BUILDING OCCUPANTS.
 - CONTRACTOR SHALL CLEAN AND RE-INSTALL ALL EXISTING AIR DEVICES WITHIN THE PROJECT AREA THAT ARE INDICATED TO BE RE-USED TO A LIKE-NEW CONDITION. CONTRACTOR SHALL NOTIFY THE DESIGN TEAM AND OWNER IF ANY AIR DEVICES DO NOT APPEAR TO BE IN GOOD CONDITION.

- NOTES BY SYMBOL:** " " "
- CONNECT NEW DUCTWORK TO EXISTING DUCT AND CONTINUE AS SHOWN ABOVE CEILING.
 - INSTALL TRANSFER DUCT ABOVE CEILING WITH FULL SIZE ELBOW AT EACH END WITHOUT TURNING VANES. DUCTWORK SHALL BE LINED WITH 1-1/2" THICK ACUSTICAL LINING (MINIMUM INSTALLED R-VALUE = R-6).
 - RELOCATE EXISTING TEMPERATURE SENSOR TO THIS LOCATION.



SHADED AREAS NOT IN PROJECT SCOPE

LEVEL 6 - FLOOR PLAN 2



LEVEL 1 - MECHANICAL 1



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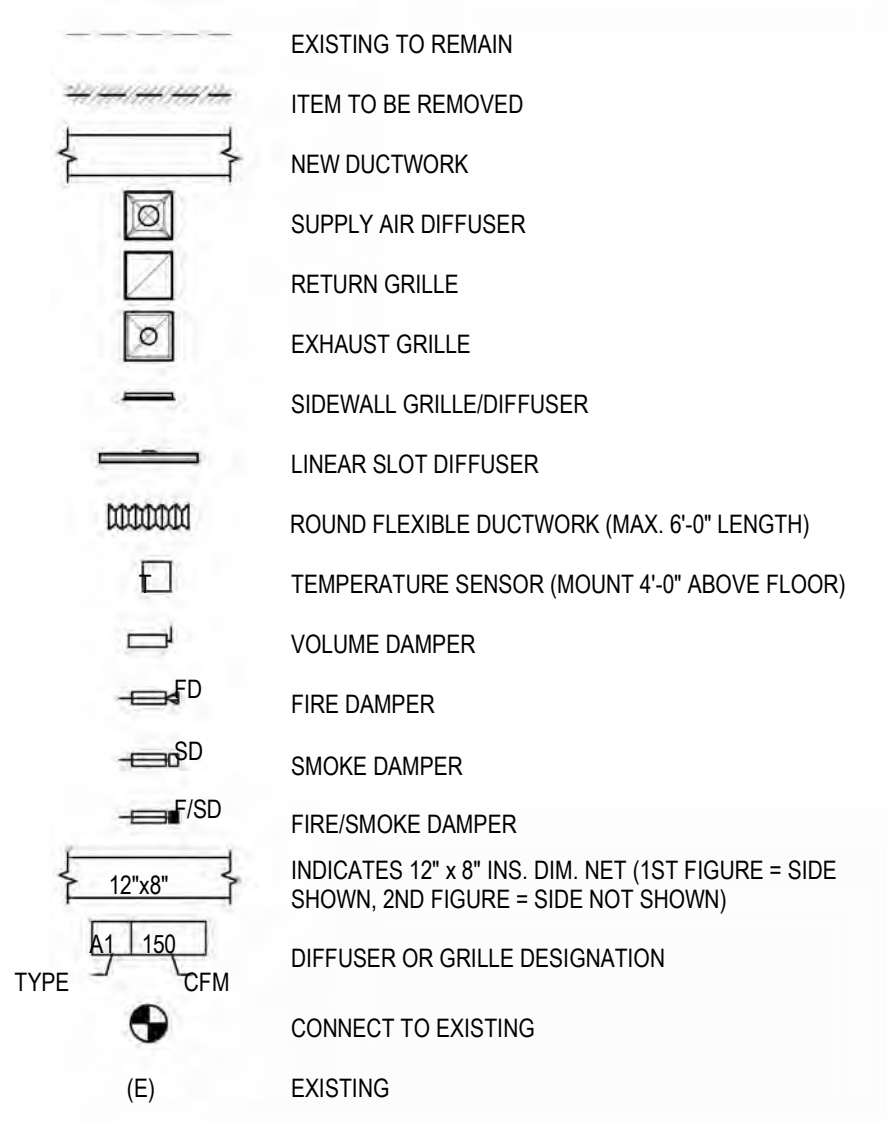
REVISIONS		
NO.	DESCRIPTION	DATE

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MECHANICAL SCHEDULES AND DETAILS

TreanorHL NO. RE0695-2301.00

HVAC LEGEND



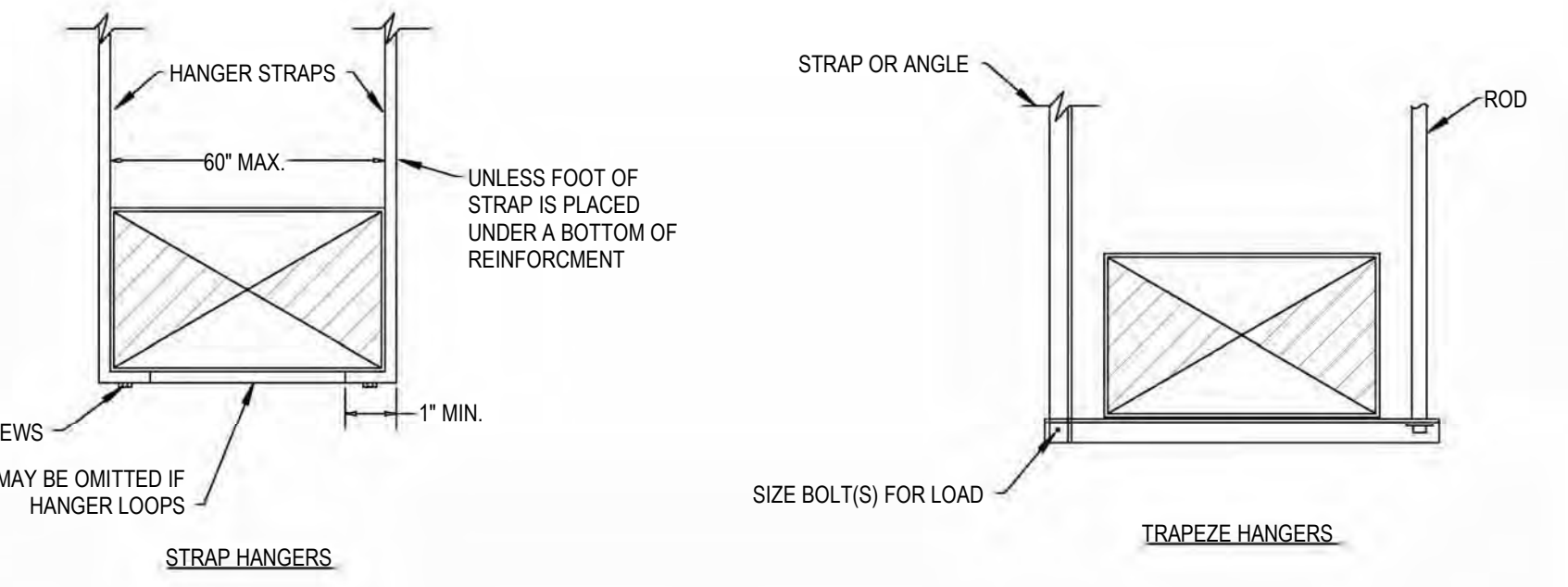
HVAC GENERAL NOTES

- FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED TO PROVIDE COMPLETE AND OPERABLE HVAC SYSTEMS WITH ALL ITEMS AND APPURTENANCES NECESSARY EVEN THOUGH NOT SPECIFICALLY IDENTIFIED.
- ALL WORK AND/OR MATERIALS SHALL BE INSTALLED BY A LICENSED CONTRACTOR AND SHALL CONFORM TO ALL APPLICABLE NATIONAL AND LOCAL BUILDING AND MECHANICAL CODES.
- ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. INSTALL TURNING VANES IN ALL DUCTWORK ELBOWS.
- ALL INTERIOR DUCTS SHALL BE CONSTRUCTED WITH G-90 OR BETTER GALVANIZED STEEL (ASTM A 653/A 653M LFG, CHEM TREAT. DUCT EXPOSED TO HIGH HUMIDITY CONDITIONS (I.E. MOISTURE LADEN EXHAUSTS NOT SPECIFIED TO BE STAINLESS STEEL) SHALL BE G-90 OR BETTER GALVANIZED STEEL LFG, CHEM TREAT.
- COORDINATE EXACT ROUTING OF ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF WORK.
- MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF AIR DEVICES AND ROUTINGS OF DUCTWORK WITH REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING LAYOUT.
- ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED WITH 2" THICK, 0.75 LB/CF (MINIMUM) FSK WRAP INSULATION (MINIMUM INSTALLED R-VALUE R-6). FOR DUCTWORK WITH INTERNAL LINER, WRAP INSULATION MAY BE OMITTED.
- FLEXIBLE DUCTWORK RUNOUTS SHALL BE LIMITED TO 6'-0" EXTENDED LENGTH. FLEXIBLE DUCTWORK SHALL BE EQUAL TO ATCO #36. FLEXIBLE DUCTS, BOTH SUPPLY AND RETURN, SHALL HAVE INSULATION WITH A MINIMUM R-VALUE OF 6.0, PER IECC. DUCT SHALL HAVE A CONTINUOUS FLEXIBLE FIBERGLASS SHEATH WITH UL APPROVED METALIZED POLYESTER BARRIER JACKET.
- DO NOT ROUTE ANY DUCTWORK OR PIPING OVER ELECTRICAL PANELS OR I.T. SERVERS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S TESTING AND AGENCY TO TEST AND BALANCE THE HVAC SYSTEMS. SYSTEMS SHALL BE BALANCED PER SPECIFICATION REQUIREMENTS. THE CONTRACTOR SHALL PLACE ALL SYSTEMS AND EQUIPMENT INTO FULL OPERATION FOR TESTING AND BALANCING. ONE COPY OF THE FINAL TEST AND BALANCE REPORT WITH THE AABC NATIONAL PERFORMANCE GUARANTY SHALL BE SENT DIRECTLY TO THE ENGINEER OF RECORD. PROVIDE FIVE (5) ADDITIONAL COPIES TO THE CONTRACTOR.
- FLEXIBLE DUCTS SHALL BE SECURED TO THE MAIN SUPPLY HEADER WITH STEEL STRAPS.
- EACH BRANCH DUCT SHALL BE PROVIDED WITH A MANUAL VOLUME BALANCING DAMPER. ALL MANUAL VOLUME BALANCING DAMPERS SHALL BE PROVIDED WITH ORANGE RIBBON ON THE HANDLE FOR TEST AND BALANCING.

AIR DEVICE SCHEDULE

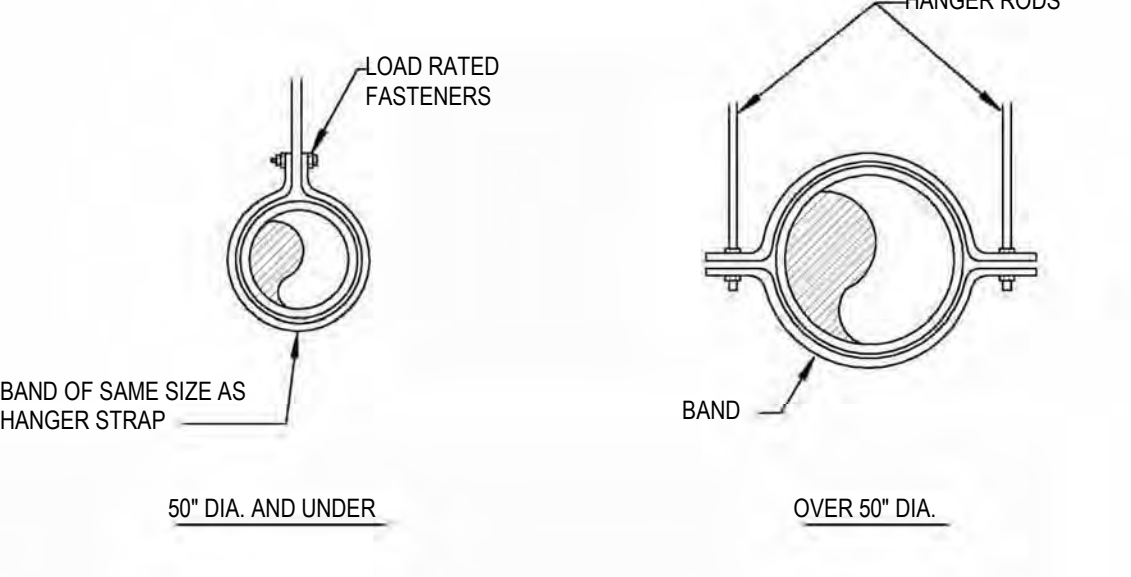
TAG	DESCRIPTION	OPPOSED BLADE DAMPER	FINISH	MANUFACTURER	MODEL NO.
S1	12"x12" SQ. LOUVERED FACE CEILING DIFFUSER 8" NECK	YES	B12 WHITE	PRICE	SCD
S2	24"x24" SQ. LOUVERED FACE CEILING DIFFUSER 8" NECK	YES	B12 WHITE	PRICE	SCD
S3	24"x24" SQ. LOUVERED FACE CEILING DIFFUSER 8" NECK	YES	B12 WHITE	PRICE	SCD
R1	12"x24" PERFORATED FACE CEILING GRILLE 10"x22" NECK	NO	B12 WHITE	PRICE	PODR
R2	24"x24" PERFORATED FACE CEILING GRILLE 22"x22" NECK	NO	B12 WHITE	PRICE	PODR

- NOTES:
- ALL SUPPLY DIFFUSERS LISTED AS LOUVERED FACE TYPE SHALL BE (4) CONE LOUVER TYPE.
 - REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
 - ALL AIR DEVICES INSTALLED IN GYP BOARD, PLASTER, OR OTHER HARD CEILING SHALL HAVE A SEPARATE MOUNTING FRAME.



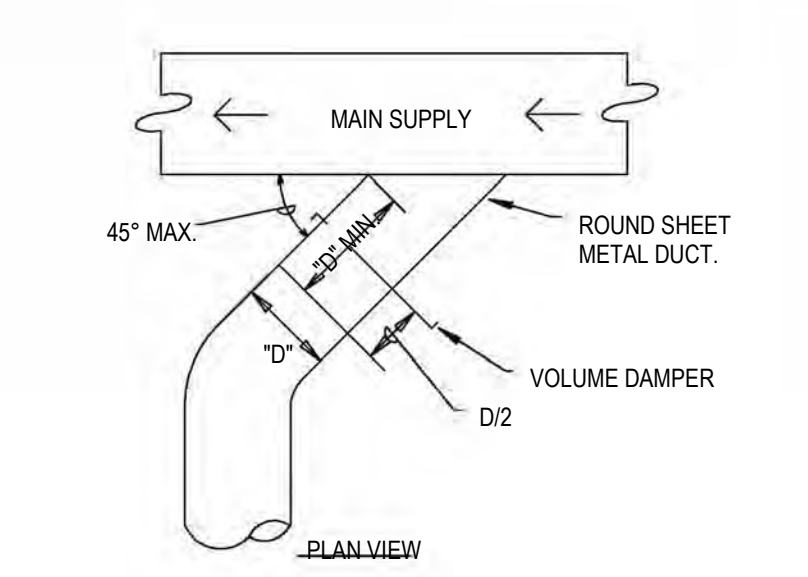
MAXIMUM HALF OF DUCT PERIMETER	RECTANGULAR DUCT HANGERS MINIMUM SIZE			
	PAIR AT 10 FT. SPACING	PAIR AT 8 FT. SPACING	PAIR AT 5 FT. SPACING	PAIR AT 4 FT. SPACING
P12-30"	1" X 22 GA. STRAP 10 GA. (.135") WIRE ROD	1" X 22 GA. STRAP 10 GA. (.135") WIRE ROD	1" X 22 GA. STRAP 12 GA. (.106") WIRE ROD	1" X 22 GA. STRAP 10 GA. (.135") WIRE ROD
P12-72"	1" X 18 GA. STRAP 3/8" WIRE ROD	1" X 20 GA. STRAP 1/4" WIRE ROD	1" X 22 GA. STRAP 1/4" WIRE ROD	1" X 22 GA. STRAP 1/4" WIRE ROD
P12-96"	1" X 16 GA. STRAP 3/8" WIRE ROD	1" X 18 GA. STRAP 3/8" WIRE ROD	1" X 20 GA. STRAP 3/8" WIRE ROD	1" X 22 GA. STRAP 1/4" WIRE ROD
P12-120"	1-1/2" X 16 GA. STRAP 1/2" WIRE ROD	1" X 16 GA. STRAP 3/8" WIRE ROD	1" X 18 GA. STRAP 3/8" WIRE ROD	1" X 20 GA. STRAP 1/4" WIRE ROD
P12-168"	1-1/2" X 16 GA. STRAP 1/2" WIRE ROD	1-1/2" X 16 GA. STRAP 1/2" WIRE ROD	1" X 16 GA. STRAP 3/8" WIRE ROD	1" X 18 GA. STRAP 3/8" WIRE ROD
P12-192"	NOT GIVEN	1-1/2" X 16 GA. STRAP 1/2" WIRE ROD	1" X 16 GA. STRAP 3/8" WIRE ROD	1" X 18 GA. STRAP 3/8" WIRE ROD

- NOTES:
- REFER TO LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR ADDITIONAL DETAIL. DUCT HANGERS SHALL MEET THIS STANDARD.
 - DIMENSIONS OTHER THAN GAGE ARE IN INCHES.
 - TABLES ALLOW FOR DUCT WEIGHT, 1 LB./SF INSULATION WEIGHT AND NORMAL REINFORCEMENT AND TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS!
 - STRAPS ARE GALVANIZED STEEL. OTHER MATERIALS ARE UNCOATED STEEL.
 - ALLOWABLE LOADS FOR P12 ASSUME THAT DUCTS ARE 16 GA MAXIMUM, EXCEPT THAT WHEN MAXIMUM DUCT DIMENSION (W) IS OVER 60" THEN P12 MAXIMUM IS 1.25 W.
 - 12, 10, OR 8 GA WIRE IS STEEL OF BLACK ANNEALED, BRIGHT BASIC, OR GALVANIZED TYPE.

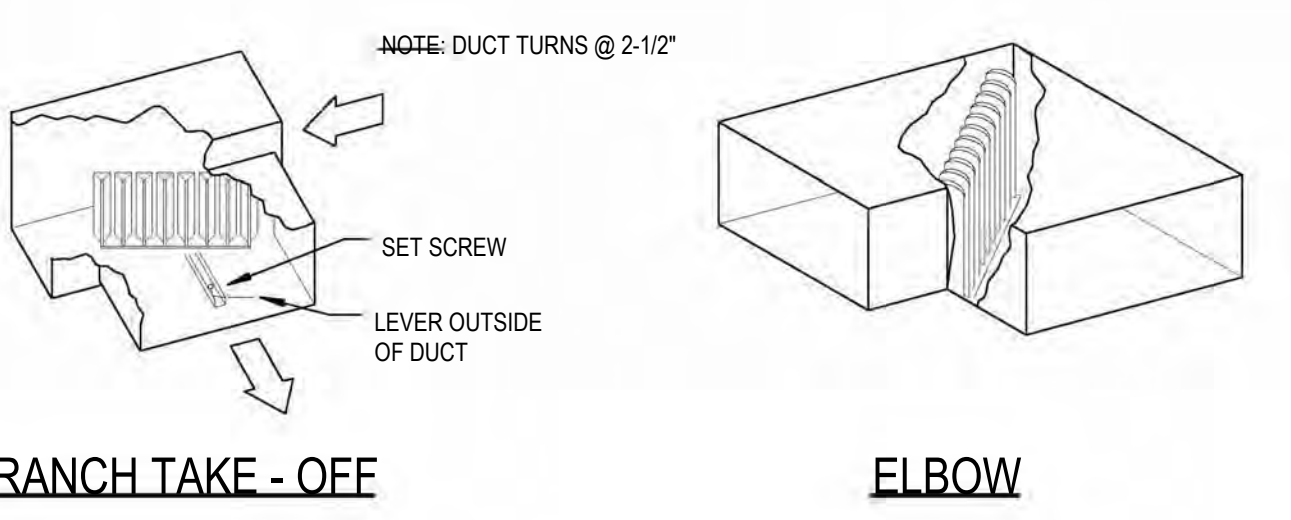


MAX. DUCT DIA.	HANGER STRAPS OR RODS	
	HANGER	MAX. LOAD LBS.
26"	ONE 1" X 22 GA STRAP	260
36"	ONE 1" X 18 GA STRAP	420
50"	ONE 1" X 16 GA STRAP	700
60"	TWO 3/8" DIA. RODS	1320
84"	TWO 1/2" DIA. RODS	2500

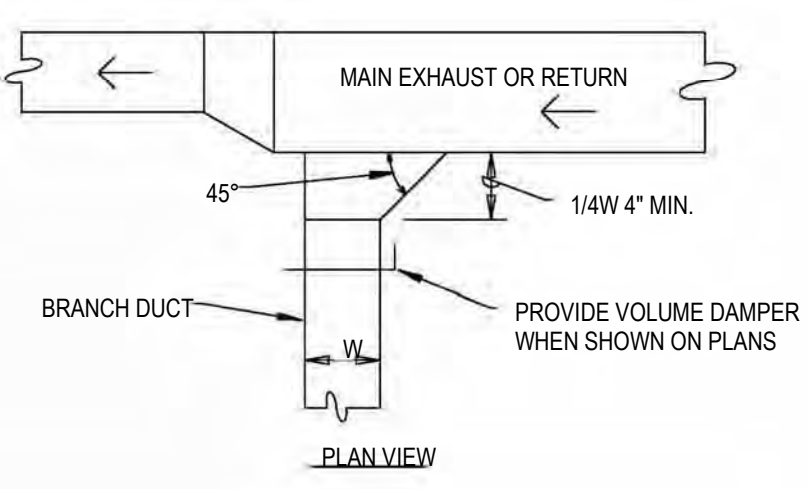
- NOTES:
- TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.



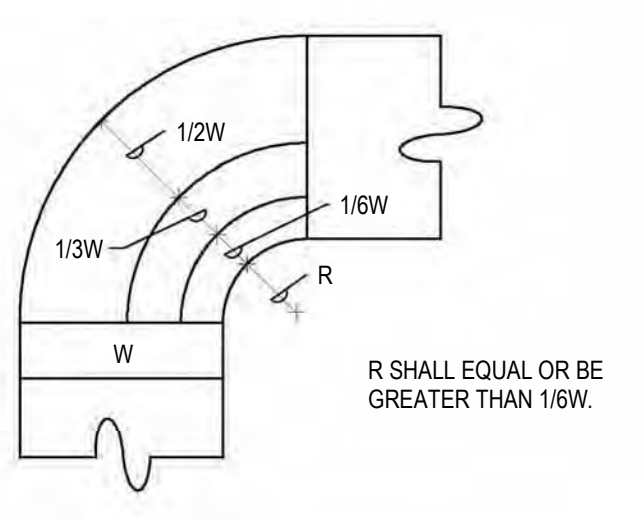
BRANCH DUCT TAKE-OFF DETAIL
 NOT TO SCALE 1



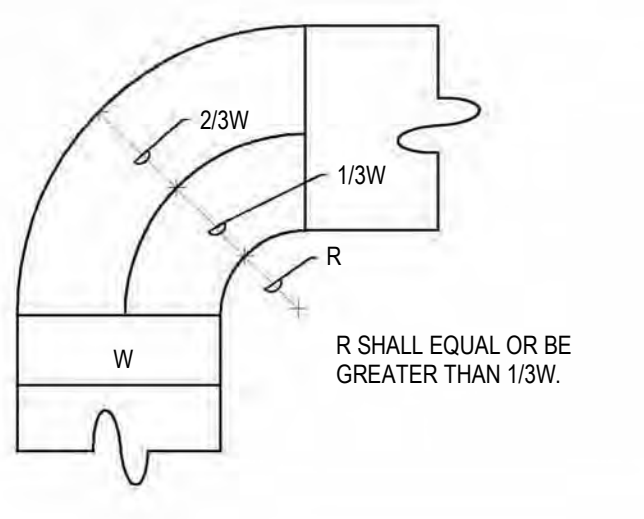
DUCT CONSTRUCTION DETAILS
 NOT TO SCALE 2



DUCT PENETRATION DETAIL STUD WALL - SEVERAL CONDITIONS
 NOT TO SCALE 3



TYPICAL DIFFUSER INSTALLATION
 NOT TO SCALE 4



RADIUS ELBOW DUCT DETAIL
 NOT TO SCALE 5

- NOTES:
- THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
 - ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

MAXIMUM HALF OF DUCT PERIMETER	RECTANGULAR DUCT HANGERS MINIMUM SIZE			
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ROUND DUCT HANGERS
 NOT TO SCALE 7

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