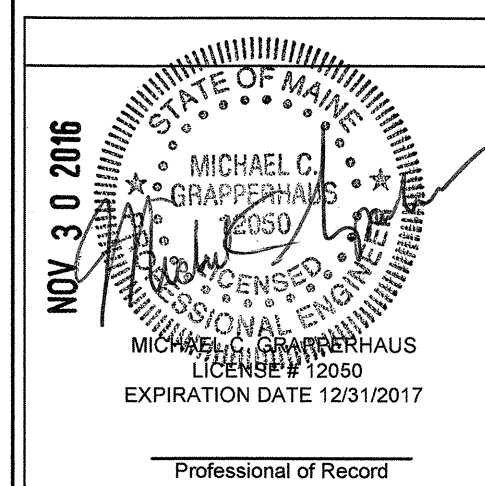




CASCO
10877 WATSON ROAD
ST. LOUIS, MO 63127
PROJECT MANAGERS

ISSUED DATES	
OWNER	11-23-16
BID/PERMIT	11-28-16
REVISIONS	

pure barre
PURE BARRE
492 CONGRESS STREET
PORTLAND, ME 04101



DRAWN BY
JCD

CHECKED BY
MCG

PROJECT NUMBER
316157

SHEET NAME
MECH/PLUMB
PLANS &
NOTES

SHEET NUMBER

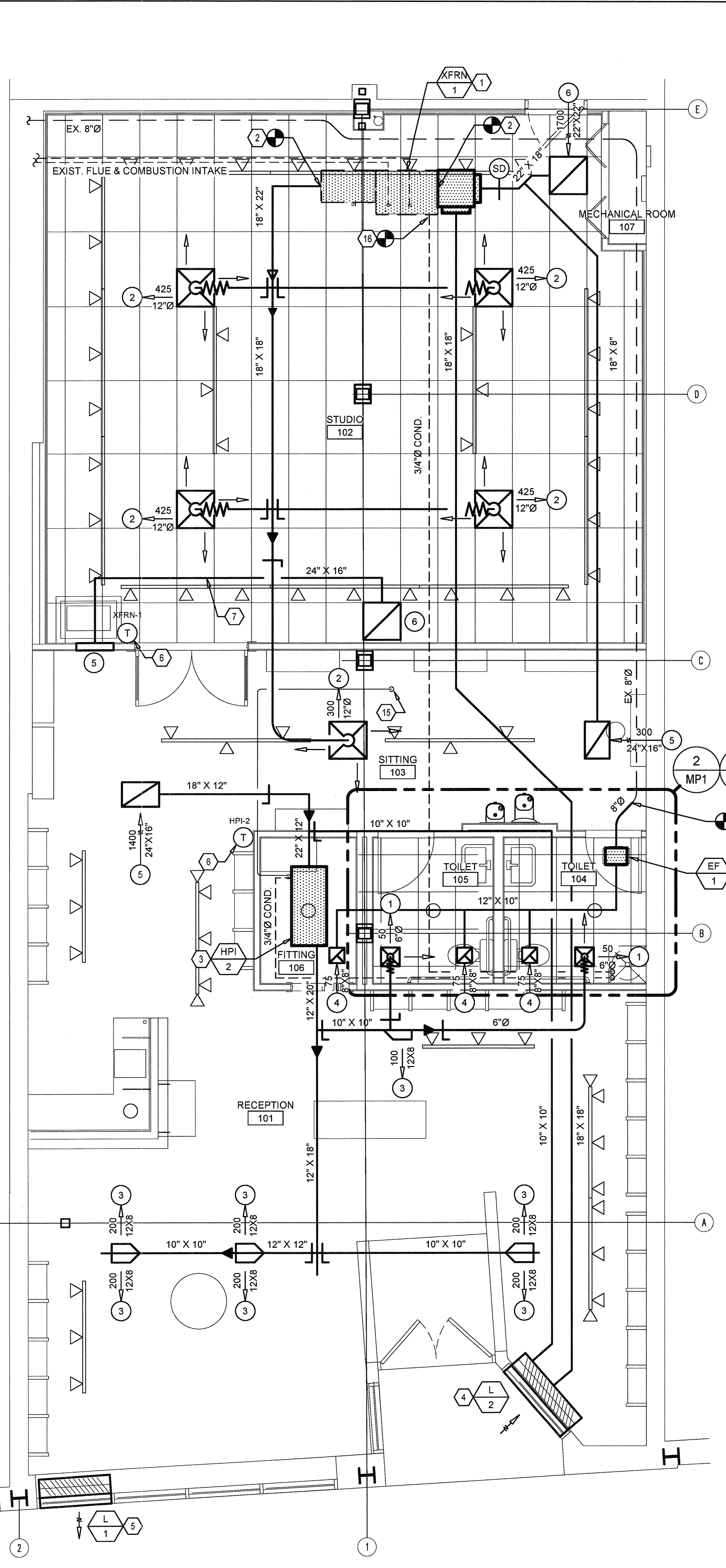
MP1

GENERAL NOTES:

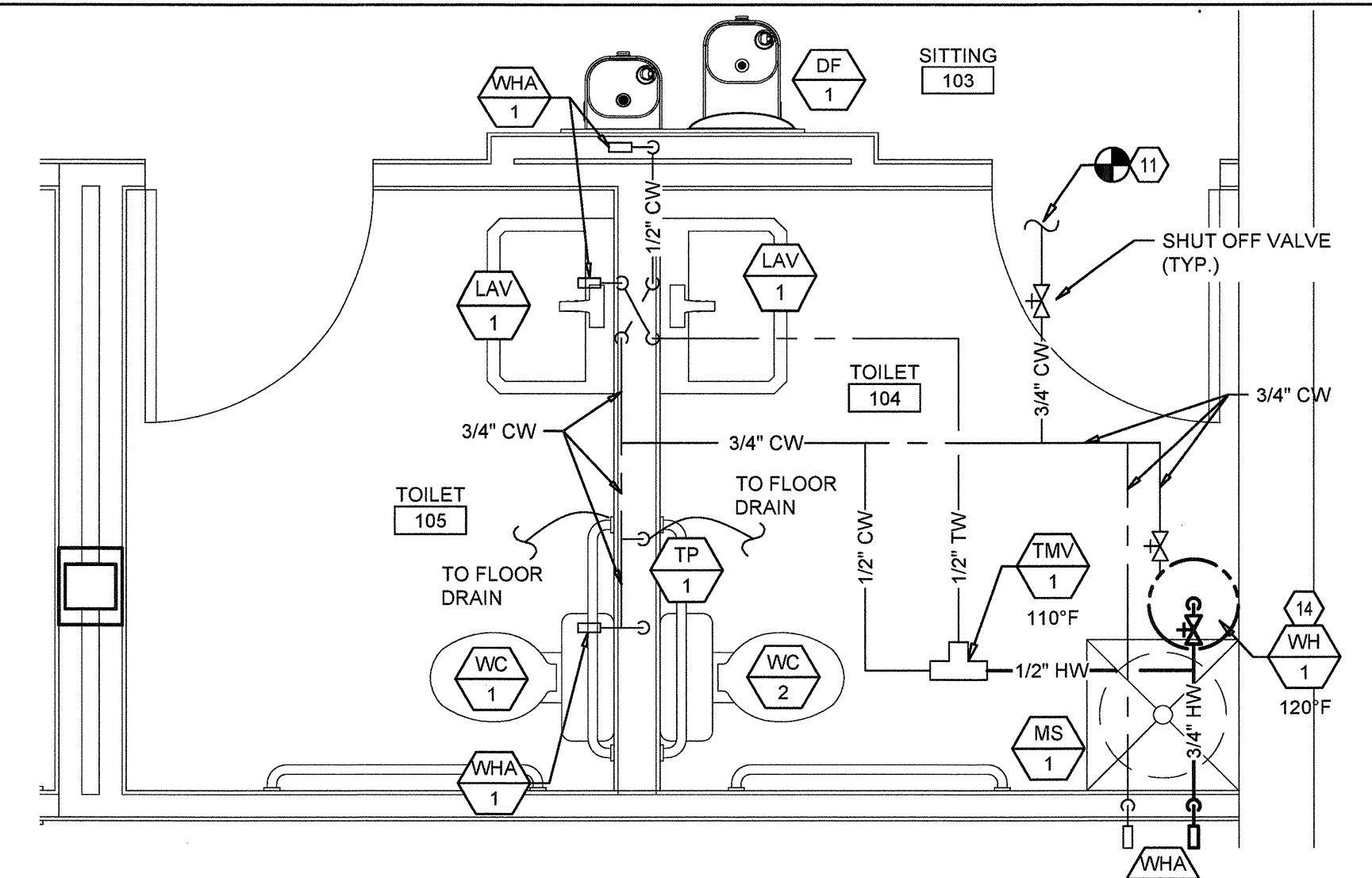
- ALL WORK SHALL COMPLY WITH THE STANDARDS AND REQUIREMENTS OF THE LANDLORD, IN ADDITION TO ALL STATE AND LOCAL CODES.
- IDENTIFY ALL EXISTING AND NEW MECHANICAL EQUIPMENT WITH STORE NAME, SPACE NUMBER AND EQUIPMENT MARK. EQUIPMENT IDENTIFICATION SHALL BE PERMANENTLY INDICATED USING 2" WEATHERPROOF LETTERS IN CONTRASTING COLOR.
- DO NOT SUSPEND ANY ITEMS FROM DECK OR SLAB ABOVE. ALL ITEMS SHALL BE SUSPENDED FROM STRUCTURE UNLESS NOTED OTHERWISE. PROVIDE MISCELLANEOUS STEEL AS REQUIRED.
- ANY PENETRATION THROUGH THE ROOF SHALL BE COORDINATED WITH THE LANDLORD'S FIELD REPRESENTATIVE AND SHALL BE DONE BY A LANDLORD APPROVED ROOFING CONTRACTOR IN ORDER TO MAINTAIN THE ROOFING WARRANTY.
- ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY SHALL BE ACCOMPLISHED IN SUCH A MANNER AS TO RETAIN THE FIRE RATINGS OF THE ASSEMBLY. PROVIDED FIRE DAMPERS AND ACCESS PANELS IN DUCTWORK AS NECESSARY.
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS. IF INTERNAL INSULATION IS PREFERRED, ADJUST SHEET METAL DIMENSIONS FOR CODE COMPLIANT THICKNESS OF INSULATING DUCT LINER. SEE MP3 MECH. SPEC 2A.
- ROUTE ALL NEW DUCTWORK TO AVOID ALL EXISTING WATER, GAS, SPRINKLER PIPING, BEAMS, JOISTS, OTHER DUCTWORK, OTHER TRADES, ETC.
- PROVIDE SINGLE WALL TURNING VANES AT ALL NEW ELBOWS AND TEES PER SMACNA STANDARDS.
- DO NOT PROVIDE AIR EXTRACTORS OR SPLITTER DAMPERS WHICH PROTRUDE INTO RECTANGULAR TRUNK DUCTS. PROVIDE ROUND SPIN-IN FITTINGS FOR ROUND BRANCH DUCTS.
- ROUND BRANCH DUCTS ARE SAME SIZE AS DIFFUSER WHICH IT SERVES, UNLESS NOTED OTHERWISE.
- ALL EXPOSED DUCTWORK TO BE PAINTED TO MATCH CEILING. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- ALL LANDLORD AND ADJACENT TENANT DUCTWORK ROUTED THROUGH PURE BARRE, WHERE EXPOSED, SPACE SHALL BE WRAPPED WITH DUCT BOARD AND FIRE CAULKED AT DEMISING WALL PENETRATIONS. DUCT BOARD TO BE USED FOR SOUND ATTENUATION PURPOSES ONLY. OTHER METHODS OF SOUND ATTENUATION SHALL BE PRE-APPROVED BY OWNER IN WRITING PRIOR TO SUBMITTING BID.
- HOLD DUCTWORK TIGHT TO BOTTOM OF EXISTING STRUCTURE AND/OR NEW CEILING HEIGHTS. FIELD VERIFY WITH EXISTING CONDITIONS.
- MAXIMUM FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5'-0". FLEXIBLE DUCTS SHALL BE INSTALLED TO PROVIDE SWEEPING CONFIGURATIONS WITH NOT LESS THAN MANUFACTURER'S RECOMMENDED BEND RADIUS, WITHOUT UNDUE RESTRICTIONS, BUT NOT CREATING UNNECESSARY SAGS OR CURVES. FLAT BANDING MATERIAL NOT LESS THAN 1-1/2" WIDE SHALL BE USED TO SUSPEND FLEXIBLE DUCTING. DUCTING FURNISHED WITH FACTORY INSTALLED GROMMETS SHALL BE SUSPENDED BY WIRES ATTACHED TO GROMMETS. WHERE CEILING SPACE IS NOT SUFFICIENT TO PERMIT TOP CONNECTION TO CEILING DIFFUSER WITH PROPER BEND RADIUS FOR FLEXIBLE DUCT, CONTRACTOR SHALL FABRICATE AND/OR PROVIDE AN ADAPTER BOX FOR DIFFUSER TO PERMIT SIDE CONNECTION OF FLEXIBLE DUCT.
- CONTRACTOR SHALL PROCURE THE SERVICES OF A LANDLORD APPROVED NEBB OR ABOC CERTIFIED AIR BALANCE & TESTING AGENCY TO BALANCE, ADJUST & TEST EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING 3 COPIES OF BALANCE/TEST AGENCY'S REPORT TO OWNER'S PROJECT MANAGER AND LANDLORD'S REPRESENTATIVE FOR REVIEW.
- BALANCING OF AIR DEVICES SHALL BE ACCOMPLISHED BY ADJUSTING BRANCH TAKEOFF DAMPER AT MAIN TRUNK DUCT. DAMPERS IN THE NECKS OF AIR DEVICES SHALL BE USED FOR FINAL TRIM ONLY, AND IN NO CASE FOR GREATER THAN 10% OF THE INDICATED VOLUME FOR THE INDIVIDUAL AIR DEVICE.
- PROVIDE ALL WATER, WASTE, AND VENT PIPING AS REQUIRED TO MAKE A COMPLETE AND WORKING SYSTEM IN EVERY RESPECT.

KEYED NOTES (MP1 & MP2):

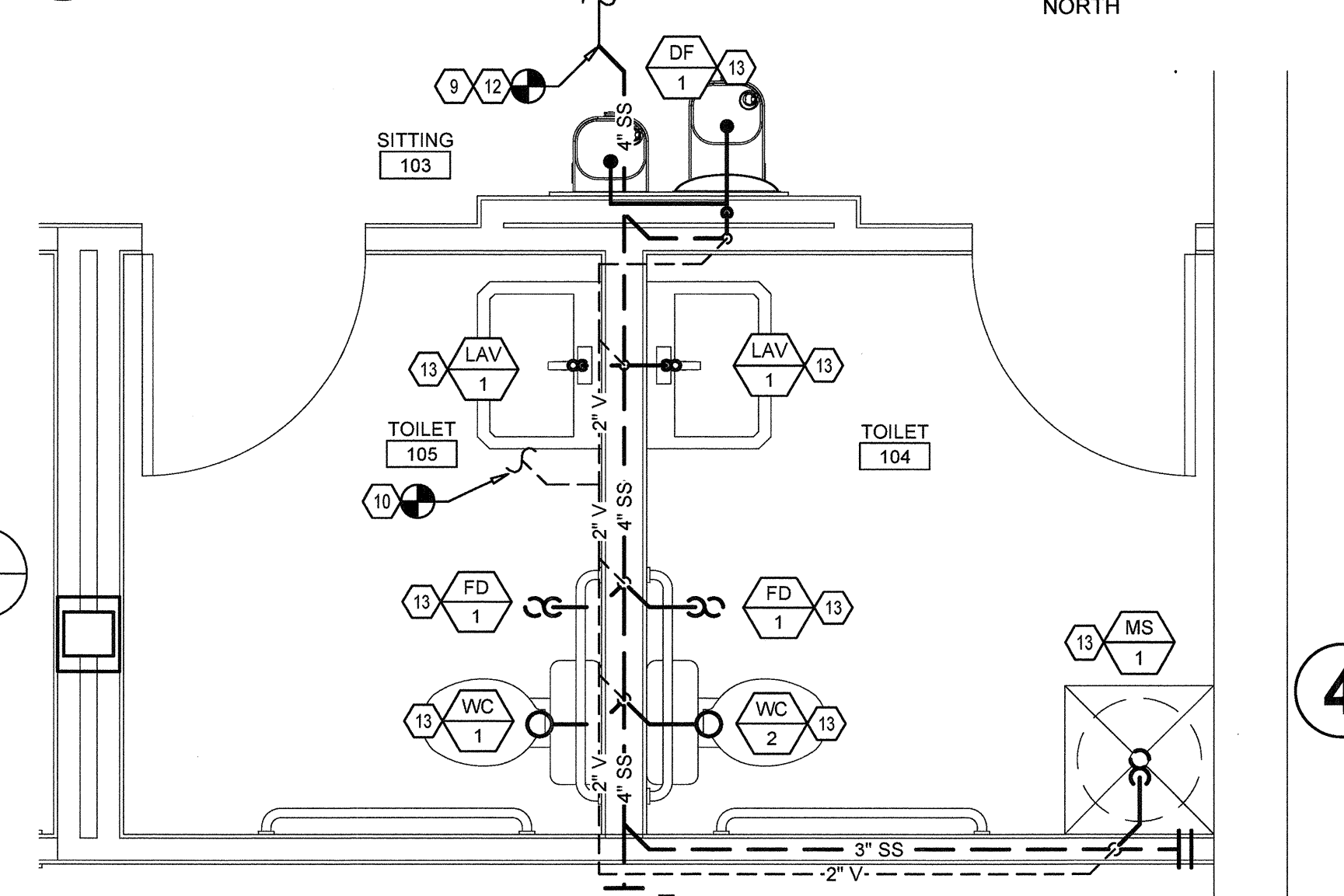
- EXISTING 5-TON (2000 CFM) SPLIT SYSTEM FURNACE TO REMAIN. XFRN-1 TO REMAIN CEILING HUNG IN CURRENT LOCATION. PROVIDE NEW ECONOMIZER AND ALL ACCESSORIES PER SCHEDULE ON SHEET MP4. XCU-1 TO REMAIN ON 4TH STORY ROOF.
- PROVIDE ALL NEW DUCTWORK TO EXISTING FURNACE XFRN-1 AS SHOWN ON PLAN.
- NEW 3.5 TON (1400 CFM) INDOOR HEAT PUMP UNIT (HPI-2) SET ON PLATFORM ABOVE FITTING ROOM.
- FRESH AIR INTAKE LOUVER (L-2) TO BE SHARED BY XFRN-1 AND HPI-1. PROVIDE GRAVITY DAMPER AT LOUVER. FIELD VERIFY EXACT DIMENSIONS BEFORE REMOVING EXISTING WINDOW PANE. SEE SCHEDULE ON SHEET MP3 FOR MORE INFORMATION. FRESH AIR INTAKE DUCTWORK SHALL BE EXTERNALLY WRAPPED WITH R-8 INSULATION. INTERNAL INSULATION OF FRESH AIR DUCT SHALL NOT BE PERMITTED DUE TO POTENTIAL MOLD GROWTH.
- ECONOMIZER RELIEF LOUVER (L-1) AND 12" LONG DUCT STUB FOR BAROMETRIC RELIEF DAMPER. SHALL FIELD VERIFY EXACT DIMENSIONS BEFORE REMOVING EXISTING WINDOW PANE. SEE SCHEDULE ON SHEET MP3 FOR MORE INFORMATION.
- NEW THERMOSTATS SHALL BE LOCATED AS SHOWN ON PLAN, AND INSTALLED AT NO HIGHER THAN 48" A.F.F. VERIFY LOCATION IS APPROVED BY OWNER PRIOR TO INSTALLATION. FIELD VERIFY EXTENT OF WORK.
- TRANSFER DUCT TO FUNCTION AS RELIEF DURING ECONOMIZER OPERATION. DUCT TO BE INTERNALLY INSULATED TO REDUCE SOUND TRANSFER FROM STUDIO. MOUNT WALL MOUNTED GRILLE AS HIGH AS POSSIBLE.
- NEW 12"x10" EXHAUST DUCT MAIN. PROVIDE INLINE EXHAUST FAN WITH FAN SPEED CONTROLLER (FSC). FSC TO BE USED FOR AIR ADJUSTMENT PURPOSES ONLY. PROVIDE EXHAUST DUCT SYSTEM AS SHOWN ON PLAN. EXTEND 8" ROUND DUCT TO EXISTING EXHAUST DUCT WHICH TERMINATES WITH GOOSENECK AND BUG SCREEN AT ROOF. EXHAUST FAN TO BE CONTROLLED BY OCCUPANCY SENSORS IN RESTROOMS AND FITTING ROOM. REFER TO ELECTRICAL DRAWINGS AND EXHAUST FAN SCHEDULE, ON SHEET MP3, FOR ADDITIONAL INFORMATION. FIELD VERIFY EXTENT OF WORK.
- EXTEND NEW SANITARY WASTE PIPING AND CONNECT TO EXISTING 4" SANITARY WASTE LINE IN BASEMENT BELOW SPACE. REFER TO WASTE AND VENT ISOMETRIC ON SHEET MP2 FOR ADDITIONAL PIPE SIZES AND INFORMATION. FIELD VERIFY EXACT LOCATION, FLOW DIRECTION, INVERT HEIGHT AND EXTENT OF WORK PRIOR TO SUBMITTING BID.
- EXTEND NEW 2" SANITARY VENT PIPING UP TO EXISTING VENT CONNECTION POINT AT CEILING LEVEL OF SPACE. REFER TO WASTE AND VENT ISOMETRIC ON SHEET MP2 FOR ADDITIONAL PIPE SIZES AND INFORMATION. FIELD VERIFY EXTENT OF WORK PRIOR TO SUBMITTING BID.
- EXTEND NEW 3/4" DOMESTIC COLD WATER PIPING AND CONNECT TO EXISTING DOMESTIC COLD WATER LINE AT CEILING LEVEL. INSTALL NEW MAIN SHUT-OFF VALVE JUST ABOVE LAY-IN CEILING OF RESTROOM FOR EASY ACCESS. REFER TO DOMESTIC WATER ISOMETRIC ON SHEET MP2 FOR ADDITIONAL PIPE SIZES AND INFORMATION. FIELD VERIFY EXACT LOCATION AND EXTENT OF WORK PRIOR TO SUBMITTING BID.
- TO ASSURE PROPER FLOW, ROD ALL SEWER LINES WITHIN TENANT'S LEASE SPACE AND VERIFY INTERNAL CONDITION OF LINES WITH A CAMERA PRIOR TO TURNOVER TO TENANT'S OPERATIONS.
- THE EXACT LOCATIONS OF THE TOILETS, FLOOR DRAINS, LAVATORIES, DRINKING FOUNTAIN, AND MOP SINK MAY HAVE TO BE ADJUSTED TO MATCH THE IRREGULAR FLOOR JOIST SPACING IN THE BASEMENT BELOW THE PURE BARRE SPACE. COORDINATE WITH ARCHITECTURAL AND ADA REQUIREMENTS. FIELD VERIFY EXTENT OF WORK.
- NEW ELECTRIC TANK WATER HEATER LOCATED ON WALL MOUNTED PLATFORM ABOVE CEILING. SEE DETAIL ON SHEET MP2 FOR MORE INFORMATION.
- ROUTE NEW REFRIGERANT LINES ALONG A SIMILAR PATH AS EXISTING LINES UP TO EXISTING ROOF PENETRATION. FIELD VERIFY EXTENT OF WORK. COORDINATE ALL WORK WITH LANDLORD'S REPRESENTATIVE. FOLLOW MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE INTUMESCENT EXPANDING SEALANT STRIPS SIMILAR TO 3M FIRE BARRIER FS-195 FOR NEW REFRIGERANT LINE PENETRATIONS THROUGH EXISTING FIRE RATED CEILING. SEE DETAIL ON SHEET MP2 FOR SIMILAR FIRE RATED PENETRATION.
- RE-ROUTE EXISTING PUMPED CONDENSATE LINE TO NEW MOP SINK. COORDINATE WITH PLUMBING CONTRACTOR.



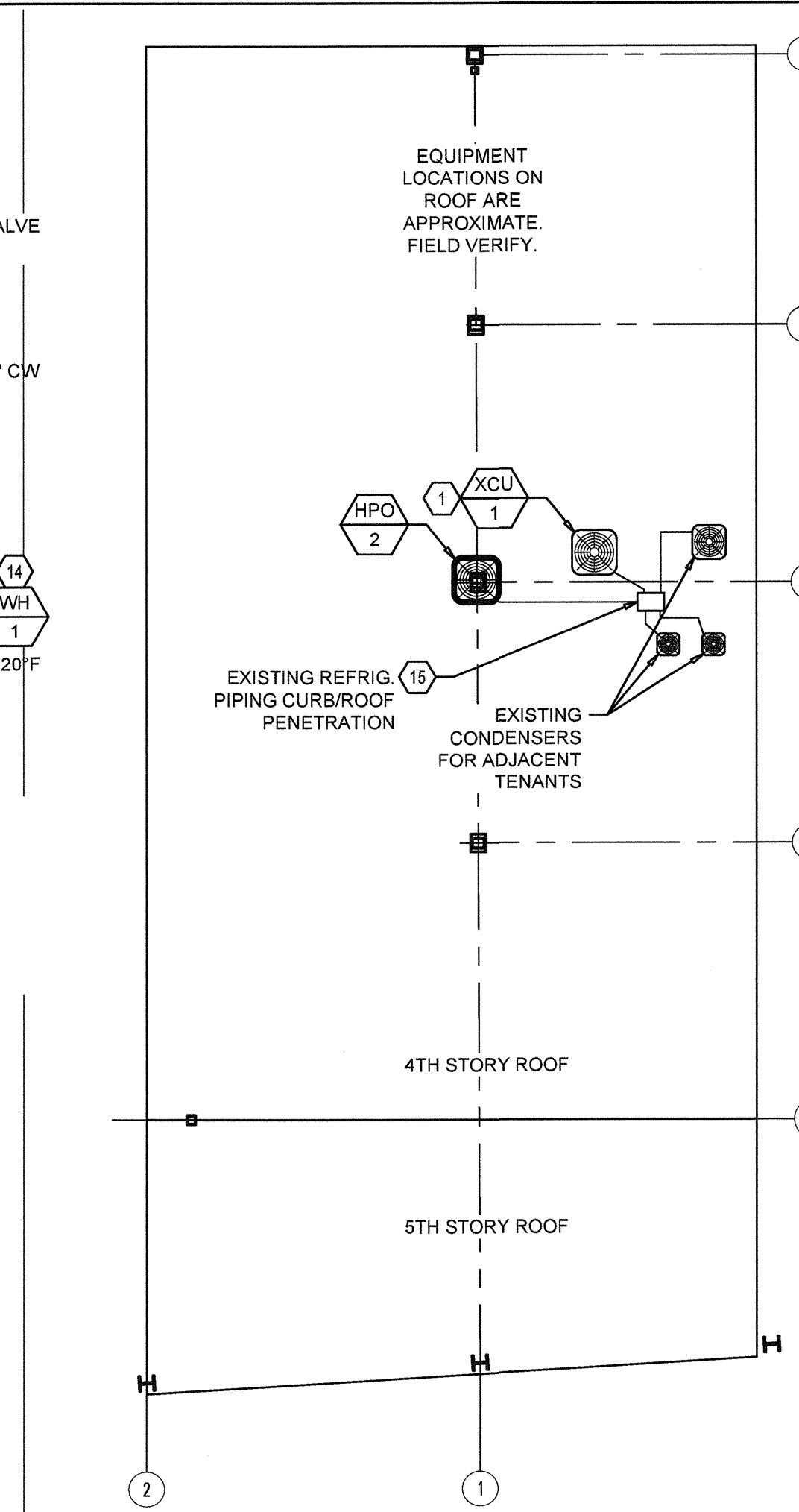
1 HVAC/PLUMBING PLAN
SCALE: 1/4" = 1'-0"



2 ENLARGED DOMESTIC WATER PLAN
SCALE: 1/2" = 1'-0"



3 ENLARGED WASTE AND VENT PLAN
SCALE: 1/2" = 1'-0"



4 HVAC/PLUMBING ROOF PLAN
SCALE: 1/8" = 1'-0"

SYMBOLS LEGEND:

SYMBOL	DESCRIPTION
---CW---	DOMESTIC COLD WATER
---HW---	DOMESTIC HOT WATER
---TW---	DOMESTIC TEMPERED WATER
---SS---	SANITARY SEWER
---V---	SANITARY VENT
	SUPPLY AIR DEVICE
	RETURN AIR DEVICE
	EXHAUST AIR DEVICE
	FLEXIBLE DUCTWORK (5'-0" MAXIMUM)
	AIR FLOW PATTERN
	AIR DEVICE TYPE (SEE AIR DEVICE SCHEDULE)
	NEW RECTANGULAR SHEET METAL DUCTWORK AND DIMENSIONS. ROUND DUCTWORK DIMENSION IN ().
	TURNING VANES
	DUCTWORK TRANSITION (NOTE: DIRECTION OF ARROW DOES NOT NECESSARILY INDICATE DIRECTION OF AIR FLOW)
	THERMOSTAT
	MANUAL VOLUME DAMPER
	POINT OF CONNECTION BETWEEN NEW AND EXISTING
	MOTOR-OPERATED VOLUME DAMPER
	DUCT SMOKE DETECTOR
	EQUIPMENT/FIXTURE TAG
	KEYED NOTE