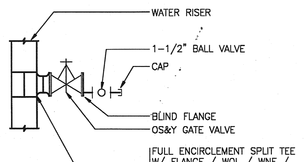
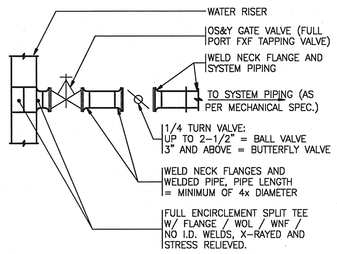


PRE-WET TAP PIPING REQUIREMENTS



POST-WET TAP PIPING REQUIREMENTS

REQUIREMENTS

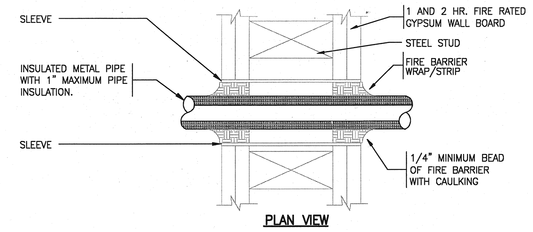
1. PROVIDE NEW HOT/WET TAP CONNECTION(S) INTO PIPING SYSTEMS AS INDICATED ON THE PLANS.
2. PROVIDE ALL REQUIRED EQUIPMENT AND MATERIALS SUCH AS A TAPPING MACHINE, WELDING MACHINE, FULL PORT TAPPING VALVE AND A PRESSURE RETENTION SPLIT TEE FITTING. VALVE AND PRESSURE FITTING TO BE RATED FOR THE WORKING PRESSURE OF THE PIPING SYSTEM.
3. HOT/WET TAP TO BE PERFORMED BY A QUALIFIED CONTRACTOR WHO IS SPECIALIZED IN PERFORMING THIS TYPE OF WORK. HOT/WET TAP CONTRACTOR SHALL BE TDW/KERR ENGINEERED SALES COMPANY 412-362-6553 OR PRO-TAP - 856-983-5442 OR APPROVED EQUAL. CONTRACTORS NAME AND QUALIFICATIONS SHALL BE SUBMITTED TO THE OWNER, OWNER'S REPRESENTATIVE, BUILDING MANAGEMENT AND ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.
4. HOT/WET TAP COUPON IS TO BE TURNED OVER TO BUILDING MANAGEMENT AFTER TAP.
5. UP TO 4" USE A WOL/WNF FOR THE RISER CONNECTION (NO I.D. WELDS ON WOL PIPE).
6. 6" AND ABOVE UTILIZE A FULL ENCIRCLING SPLIT TEE FOR SADDLE ASSEMBLY. WELD SPLIT TEE SADDLE COMPLETELY AROUND RISER PIPE. SPECIAL WELDING PROCEDURES FOR SPLIT TEES, FOR WELDING PROCEDURES AND SPLIT TEES CONTACT TDW/KERR ENGINEERED SALES COMPANY 412-362-6553 OR PROTAP INC. 856-983-5442.
7. FOR UP TO 150 PSI SYSTEMS, UP TO 2-1/2" USE SCHEDULE 80 THREADED PIPE AND FITTINGS. FOR 3" AND ABOVE USE SCHEDULE 40 WELDED PIPE AND FITTINGS.
8. FOR SYSTEMS OVER 150 PSIG: UP TO 2" USE SCHEDULE 40 WELDED PIPE AND FITTINGS. FOR 2-1/2" AND OVER USE SCHEDULE 80 WELDED PIPE AND FITTINGS.

PROCEDURE:

1. WELD EITHER FULL ENCIRCLING SPLIT TEE SADDLE OR WOL/WNF ASSEMBLY ONTO RISER PIPE.
2. WELD REQUIRED WELD-NECK-FLANGE ONTO SADDLE/WELD-O-LET ASSEMBLY.
3. INSTALL CORRECT SIZE OS&Y FULL PORT GATE VALVE, BLIND FLANGE WITH 1-1/2" OUTLET AND 1-1/2" BALL VALVE WITH CAP. TAPPING VALVE BOLT HOLES MUST BE CONCENTRIC W/ BORE.
4. UTILIZE 1-1/2" BALL VALVE TO FILL AND PRESSURE TEST. ASSEMBLY PRESSURE TEST SHALL BE 200% OF MAXIMUM SYSTEM PRESSURE FOR A MINIMUM OF 4 HOURS. (VERIFY THAT REST OF SYSTEM, VALVES, PIPE, ETC. CAN ACCOMMODATE TEST PRESSURE.)
5. HOT WET TAP RISER AS PER HOT WET TAP CONTRACTOR GUIDELINES.
6. CONNECT TO REMAINDER OF SYSTEM PIPING AFTER PRESSURE TEST AND WET TAP HAVE BEEN COMPLETED.

WET TAP DETAIL

NOT TO SCALE



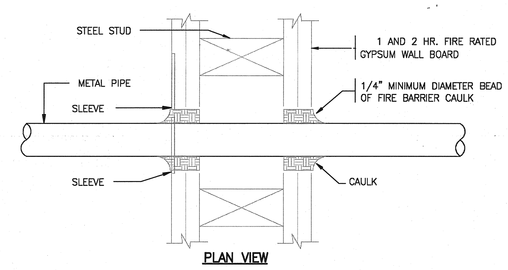
PLAN VIEW

NOTES:

1. THE SPACE BETWEEN THE PENETRATING ITEM AND WALL BOARD MUST ACCOMODATE AT LEAST ONE WRAP OF 1/4" FIRE BARRIER WRAP/STRIP.
2. IF THE ANNULAR SPACE IS LESS THAN 1/2", ONE WRAP OF WRAP/STRIP IS REQUIRED. IF THE ANNULAR SPACE IS 1/2" OR GREATER, FILL WITH ADDITIONAL WRAPS OF WRAP/STRIP UNTIL THE SPACE IS LESS THAN 1/4". WRAP/STRIP MAY BE FRICTION FIT INTO OPENING SECURED WITH FOIL TAPE OR 16 GAUGE STEEL TIE WIRE.
3. SLIDE THE WALL STRIPS INTO THE OPENING, LEAVING A MAXIMUM OF 3/4" EXPOSED WRAP BEYOND THE WALL SURFACE.
4. SEAL THE WRAP/STRIP EDGES AND SEAMS WITH 1/4" MINIMUM BEAD OF FIRE BARRIER CAULK.
5. INSTALL FIRESTOP ON BOTH SIDES OF THE WALL.
6. INSTALLATION MUST CONFORM WITH PRODUCT MANUFACTURERS PERFORMANCE RATINGS PER ASTM E-814 (UL 1479) FIRE TEST AND UL RESPECTIVE CLASSIFICATION FOR FIRE STOPPING.

PENETRATION FIRESTOP FOR INSULATED METAL PIPE THROUGH GYPSUM WALL BOARD

NOT TO SCALE



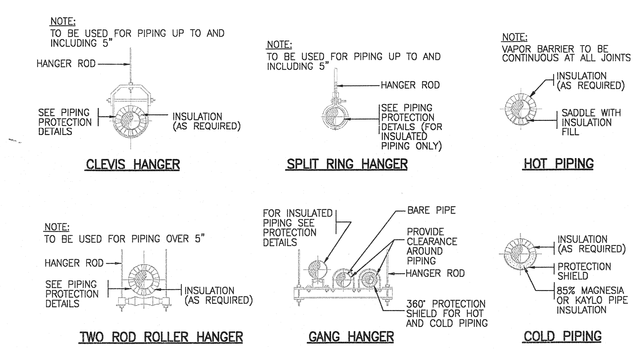
PLAN VIEW

NOTES:

1. THE CAULK IS FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING WITH A 1/4" MINIMUM BEAD OF CAULK APPLIED TO THE PERIMETER OF THE PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16".
4. INSTALL FIRESTOP ON BOTH SIDES OF WALL.
5. INSTALLATION MUST CONFORM WITH PRODUCT MANUFACTURERS PERFORMANCE RATINGS PER ASTM E-814 (UL 1479) FIRE TEST AND UL RESPECTIVE CLASSIFICATION FOR FIRE STOPPING.

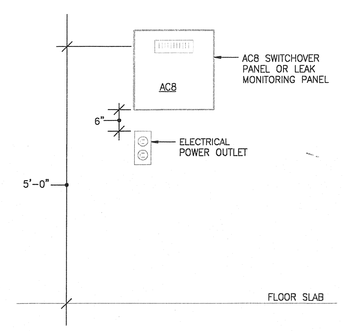
PENETRATION FIRESTOP FOR METAL PIPE THROUGH GYPSUM WALL BOARD

NOT TO SCALE



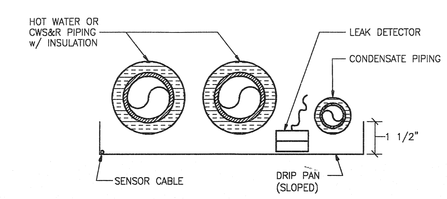
PIPING SUPPORT AND INSULATION DETAILS

NOT TO SCALE



TYPICAL MOUNTING HEIGHTS FOR AC8 SWITCHOVER PANEL AND LEAK MONITORING PANEL

NOT TO SCALE



NOTES:

1. PROVIDE STAINLESS STEEL DRIP PAN AND LEAK DETECTION SYSTEM IN COMPUTER ROOM CEILING.
2. DRIP PANS SHALL BE INSTALLED UNDER ALL HOT WATER, CONDENSATE AND CONDENSER WATER PIPING IN THE COMPUTER ROOM CEILING ONLY.
3. EXACT LENGTH OF LEAK CABLE TO BE VERIFIED BY CONTRACTOR & INCLUDED IN BID.

DRIP PAN AND LEAK DETECTION SYSTEM DETAIL

NOT TO SCALE

APS HEALTH CARE

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tenant: APS Healthcare con: Shelly 6403 Colesville Road, #1600 Silver Spring, MD 20910 T: 301.563.5633X3097 F: 239.353.5677

project manager: Xxx con: Xxx xxx xxx xxx, xx xxxxx T: xxx.xxx.xxxx F: xxx.xxx.xxxx xxx@xxx.com

architect: Alliance Architecture con: Tim Kearney 63 West Street Annapolis, MD 21401 T: 410.626.5595 F: 410.626.5596 xxx@alliancearchitecture.com

mechanical / electrical / plumbing: C&F CONSULTING ENGINEERING, PC

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revisions:

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ISSUE FOR FINAL REVIEW	01.14.11
ISSUE FOR ENGINEERING	12.17.10

seal:

RECEIVED JAN 20 2011 ABM AIR CONDITIONING AND HEATING, INC.

sheet title: HVAC DETAILS (SHEET 1 OF 2)

date:	01.18.2011
scale:	N.T.S.
drawn by:	AP
checked by:	DF

sheet number: H-4