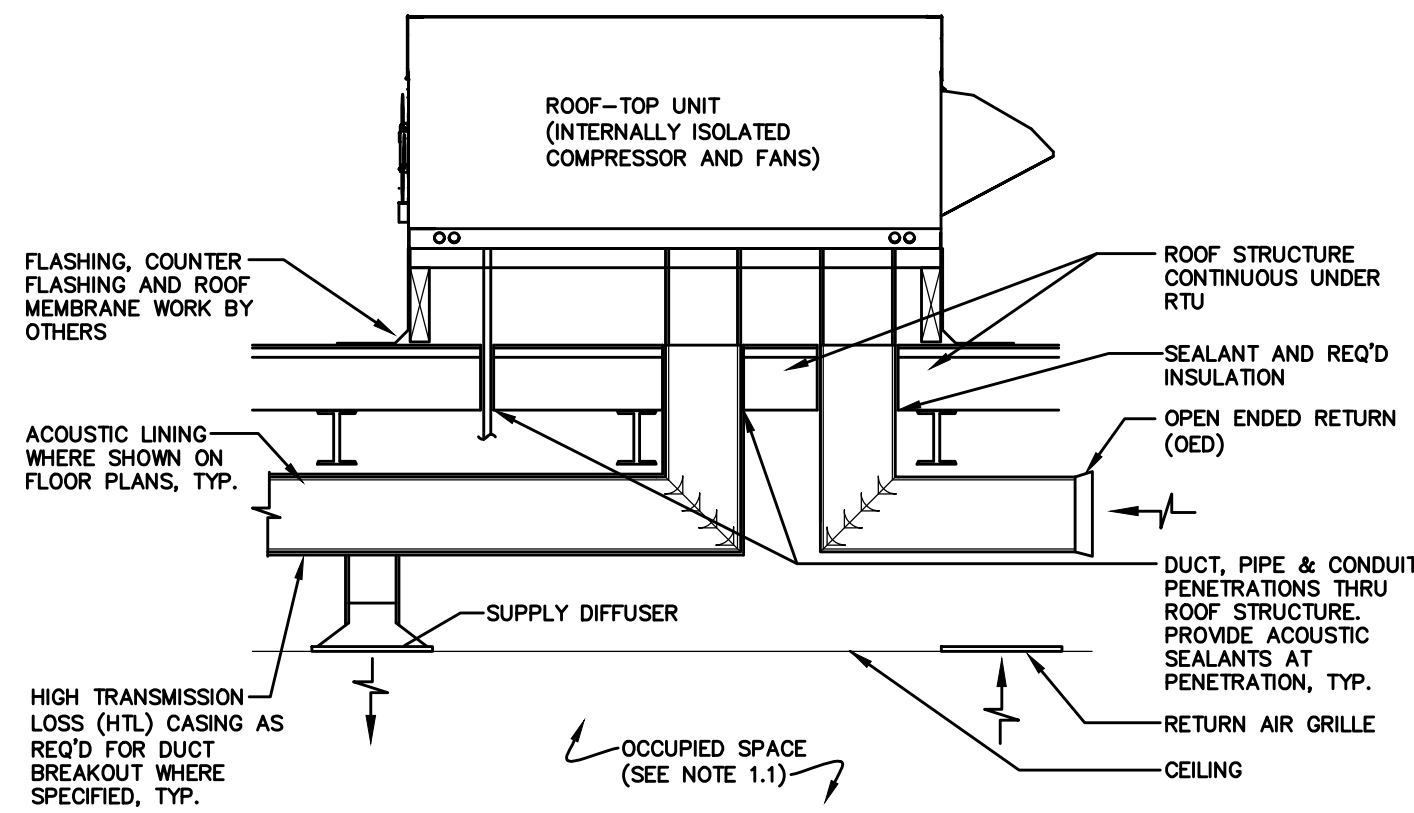
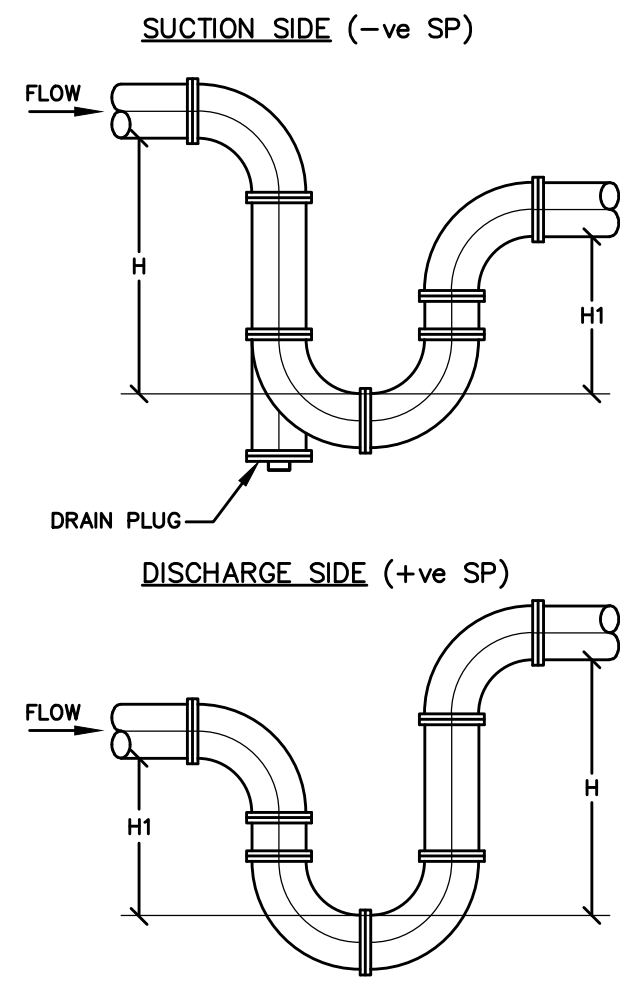


- NOTES:
 1. NOISE LEVELS FROM COMBINED DUCT BREAKOUT AND AERODYNAMIC NOISE SHALL BE: OPEN OFFICE - NC/RC 35, CRITICAL SPACES - NC 30, CORRIDORS, UTILITY SPACES - NC 40
 2. PROVIDE ACOUSTICAL CURB/RAIL WITH ACOUSTIC BARRIER PACKAGE FOR ROOF TOP UNIT
 3. SEE SCHEDULES AND SPECIFICATION FOR VIBRATION ISOLATION AND NOISE ATTENUATION PERFORMANCE AND DETAILS.

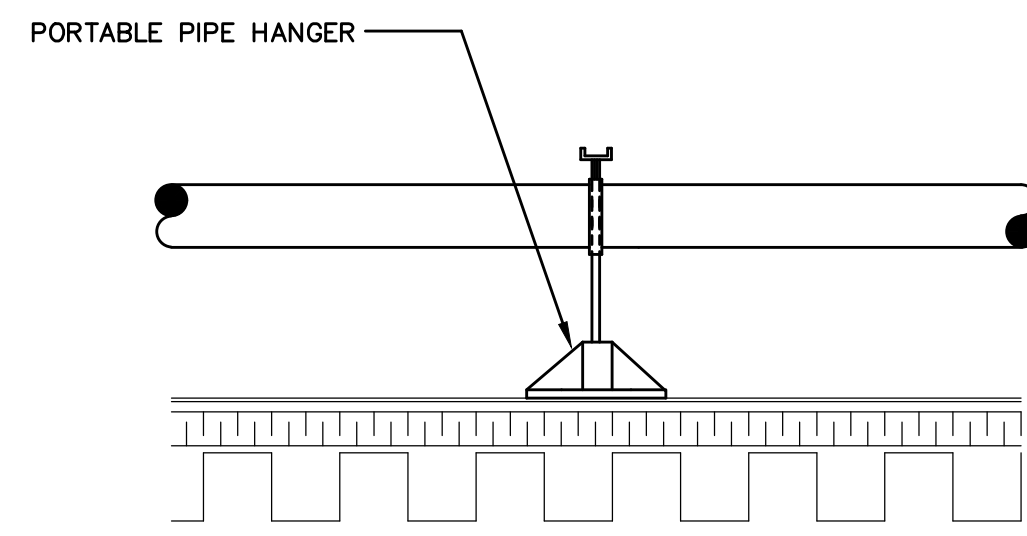


1
M-400
DETAIL OF ROOFTOP UNIT INSTALLATION AND ACOUSTIC REQUIREMENTS

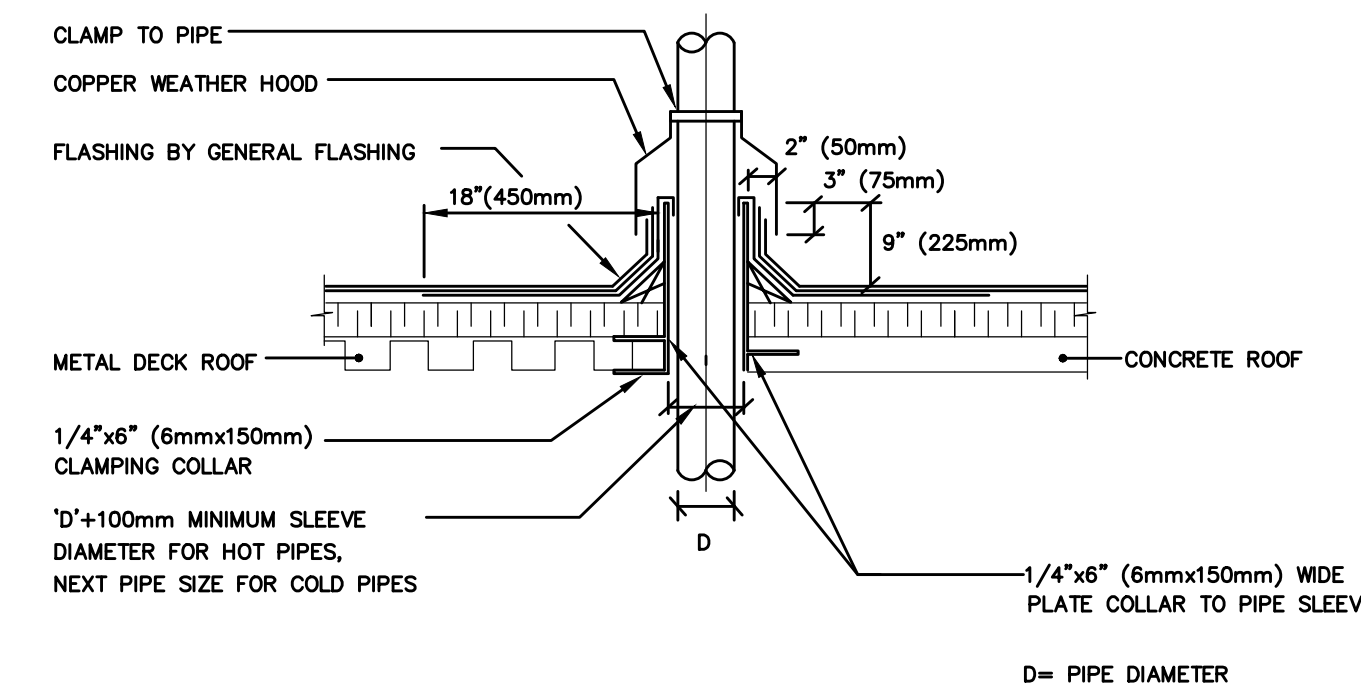
| H = 1.5 x S.P. +1" HI = 0.5 x S.P. +0.5" | | |
|--|---------------|----------|
| WHERE S.P. INDICATES STATIC PRESSURE AT DRAIN OUTLET (TRAP WEIR) | S.P. (in. wg) | HI (in.) |
| -0.00 | 8.00 | 3.00 |
| -0.75 | 8.13 | 2.88 |
| -1.50 | 8.25 | 2.75 |
| -2.25 | 8.38 | 2.63 |
| -3.00 | 8.50 | 2.50 |
| -3.75 | 8.63 | 2.38 |
| -4.50 | 8.75 | 2.25 |
| -5.25 | 8.88 | 2.13 |
| -6.00 | 9.00 | 2.00 |
| -6.75 | 9.13 | 1.88 |
| -7.50 | 9.25 | 1.75 |
| -8.25 | 9.38 | 1.63 |
| -9.00 | 9.50 | 1.50 |
| -9.75 | 9.63 | 1.38 |
| -10.50 | 9.75 | 1.25 |
| -11.25 | 9.88 | 1.13 |
| -12.00 | 10.00 | 1.00 |
| -12.75 | 10.13 | 0.88 |
| -13.50 | 10.25 | 0.75 |
| -14.25 | 10.38 | 0.63 |
| -15.00 | 10.50 | 0.50 |
| -15.75 | 10.63 | 0.38 |
| -16.50 | 10.75 | 0.25 |
| -17.25 | 10.88 | 0.13 |
| -18.00 | 11.00 | 0.00 |
| -18.75 | 11.13 | -0.13 |
| -19.50 | 11.25 | -0.25 |
| -20.25 | 11.38 | -0.38 |
| -21.00 | 11.50 | -0.50 |
| -21.75 | 11.63 | -0.63 |
| -22.50 | 11.75 | -0.75 |
| -23.25 | 11.88 | -0.88 |
| -24.00 | 12.00 | -1.00 |
| -24.75 | 12.13 | -1.13 |
| -25.50 | 12.25 | -1.25 |
| -26.25 | 12.38 | -1.38 |
| -27.00 | 12.50 | -1.50 |
| -27.75 | 12.63 | -1.63 |
| -28.50 | 12.75 | -1.75 |
| -29.25 | 12.88 | -1.88 |
| -30.00 | 13.00 | -2.00 |
| -30.75 | 13.13 | -2.13 |
| -31.50 | 13.25 | -2.25 |
| -32.25 | 13.38 | -2.38 |
| -33.00 | 13.50 | -2.50 |
| -33.75 | 13.63 | -2.63 |
| -34.50 | 13.75 | -2.75 |
| -35.25 | 13.88 | -2.88 |
| -36.00 | 14.00 | -3.00 |



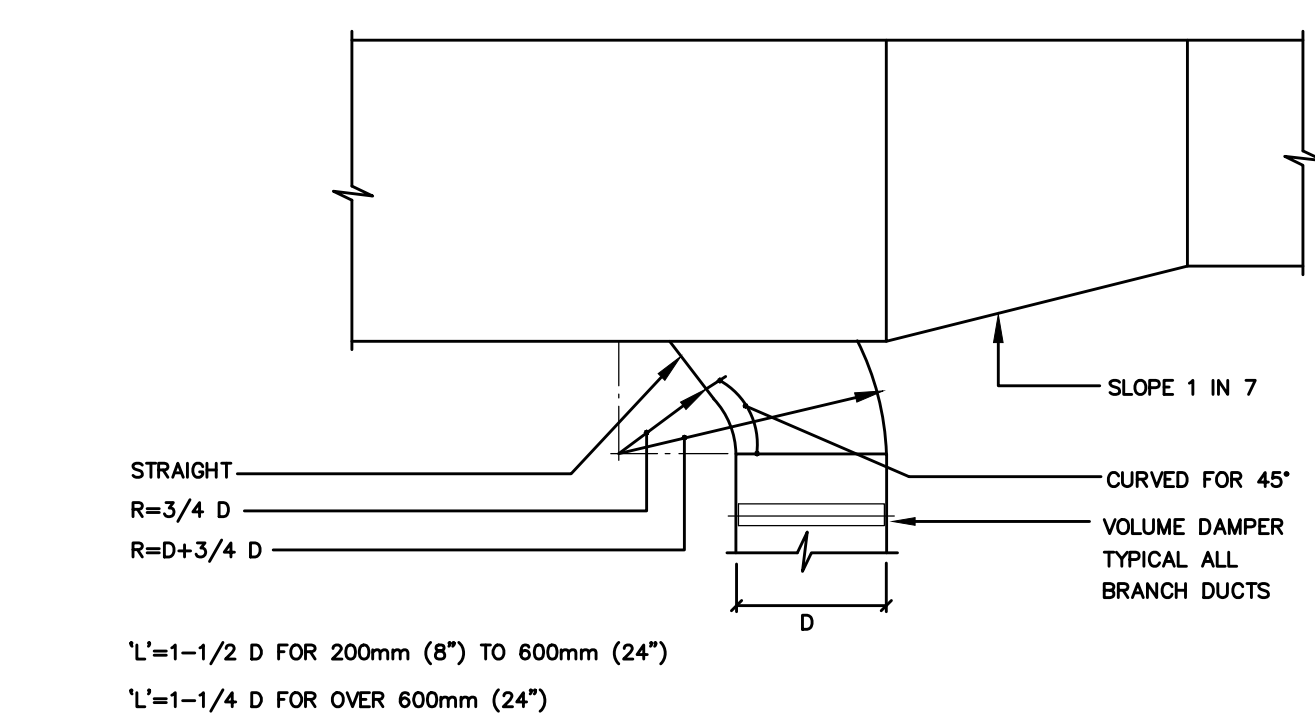
2
M-400
DETAIL OF TRAPS FOR ROOF TOP UNITS



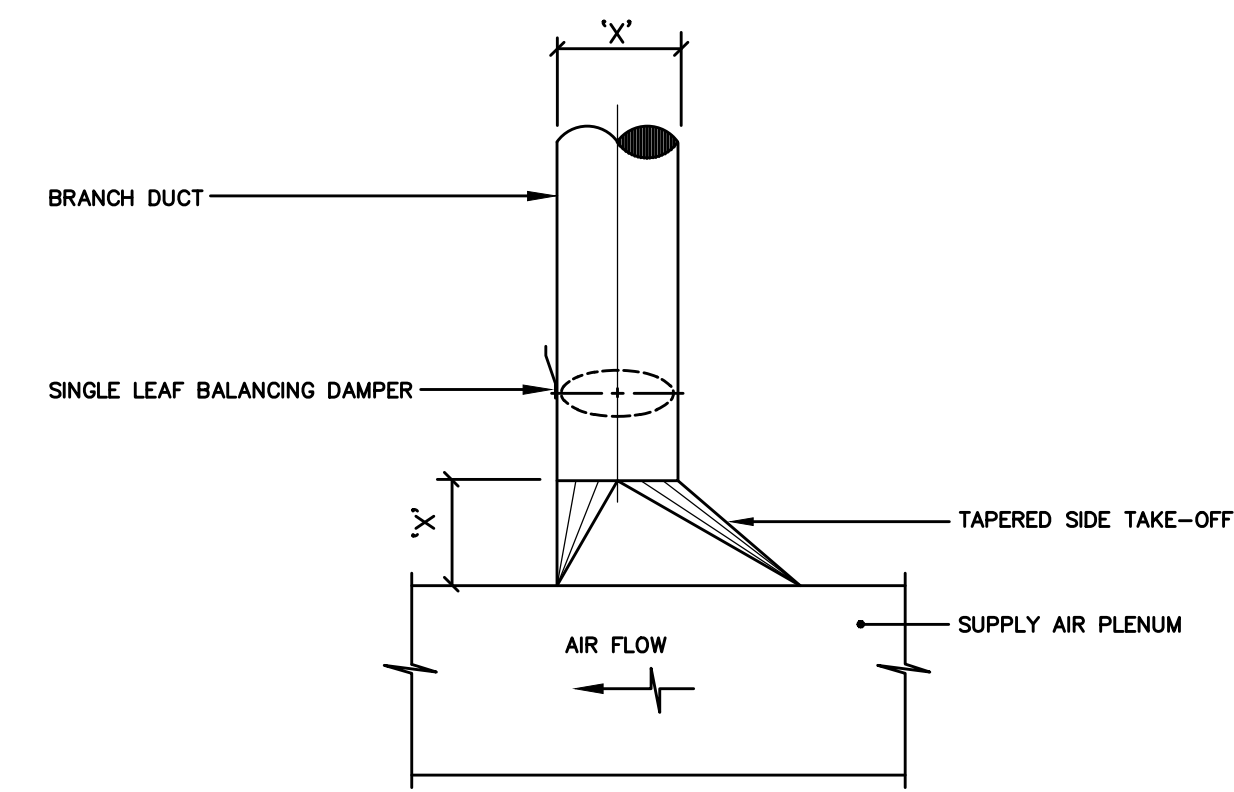
3
M-400
DETAIL OF GAS PIPING ROOF SUPPORT



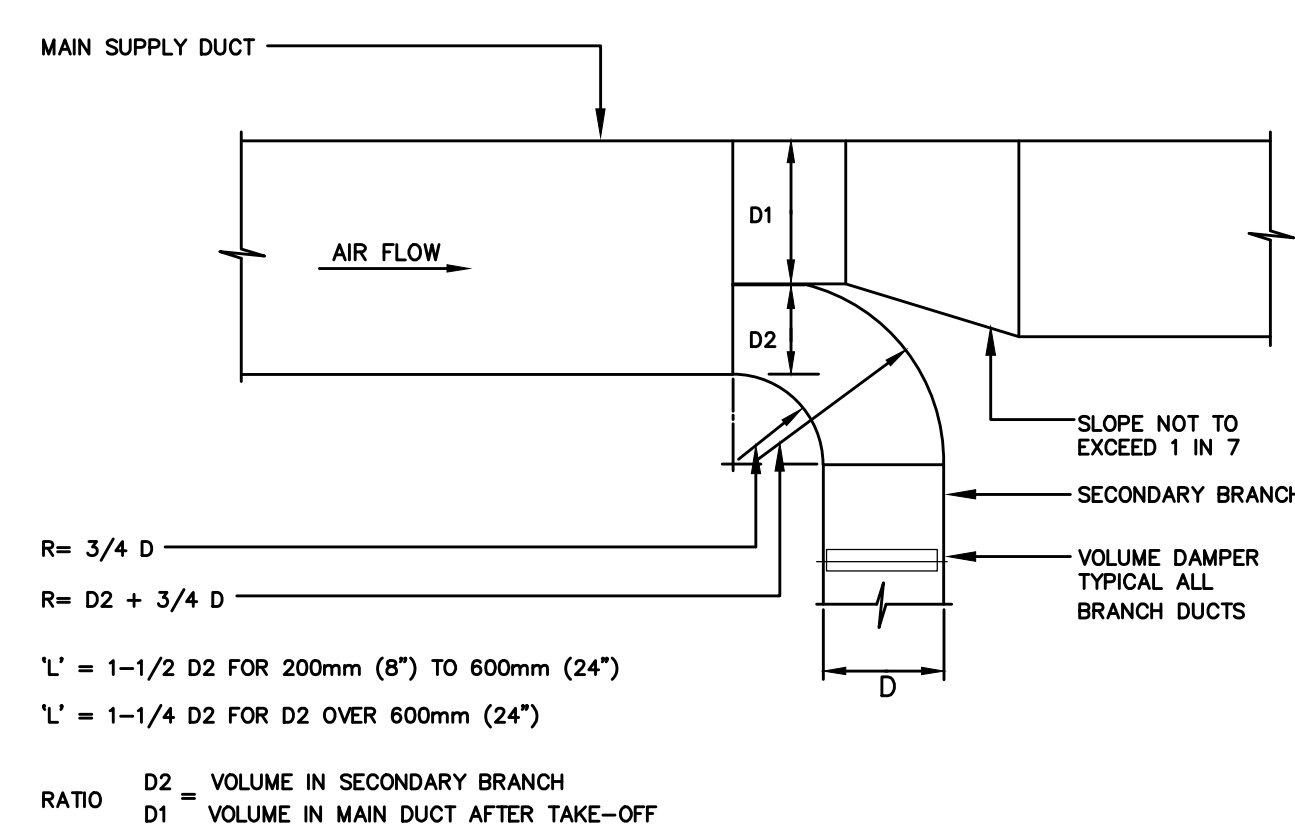
4
M-400
DETAIL OF PIPE THROUGH ROOF



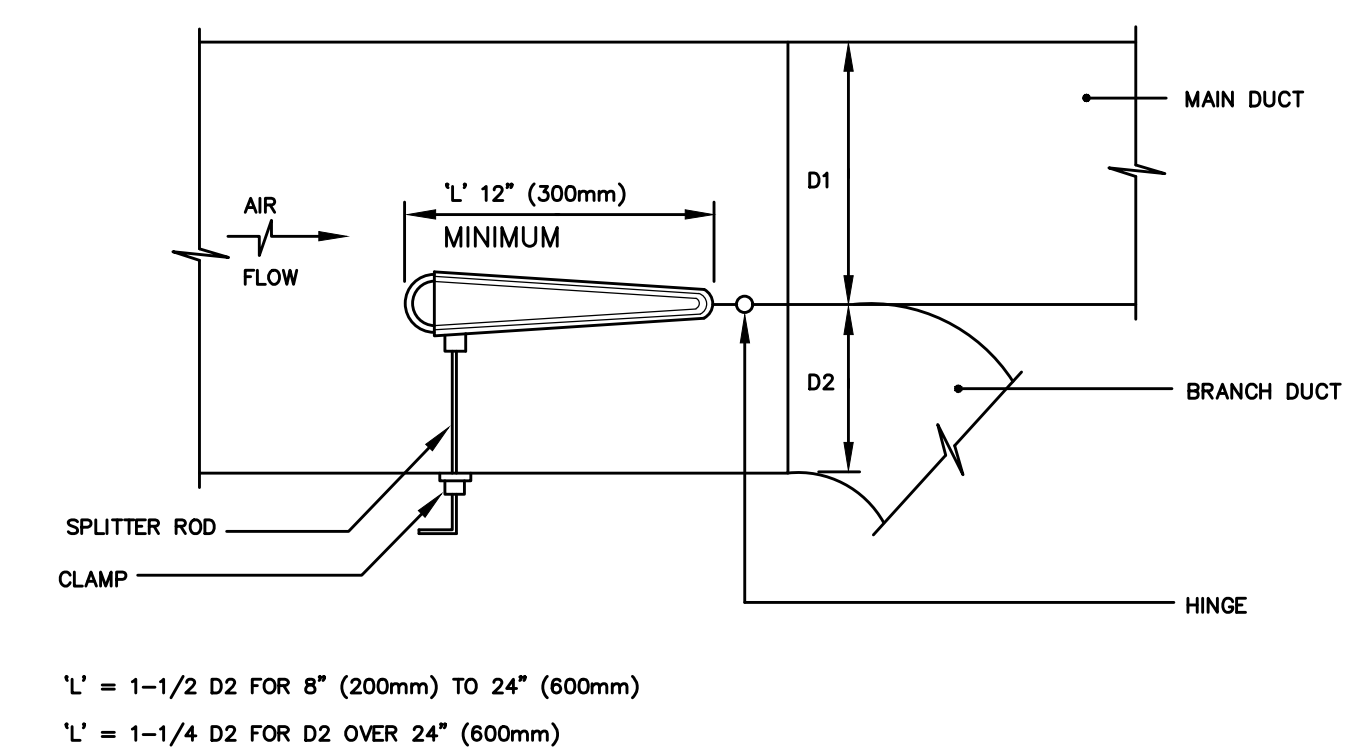
5
M-400
DETAIL OF SUPPLY AND RETURN TAP IN CONNECTION



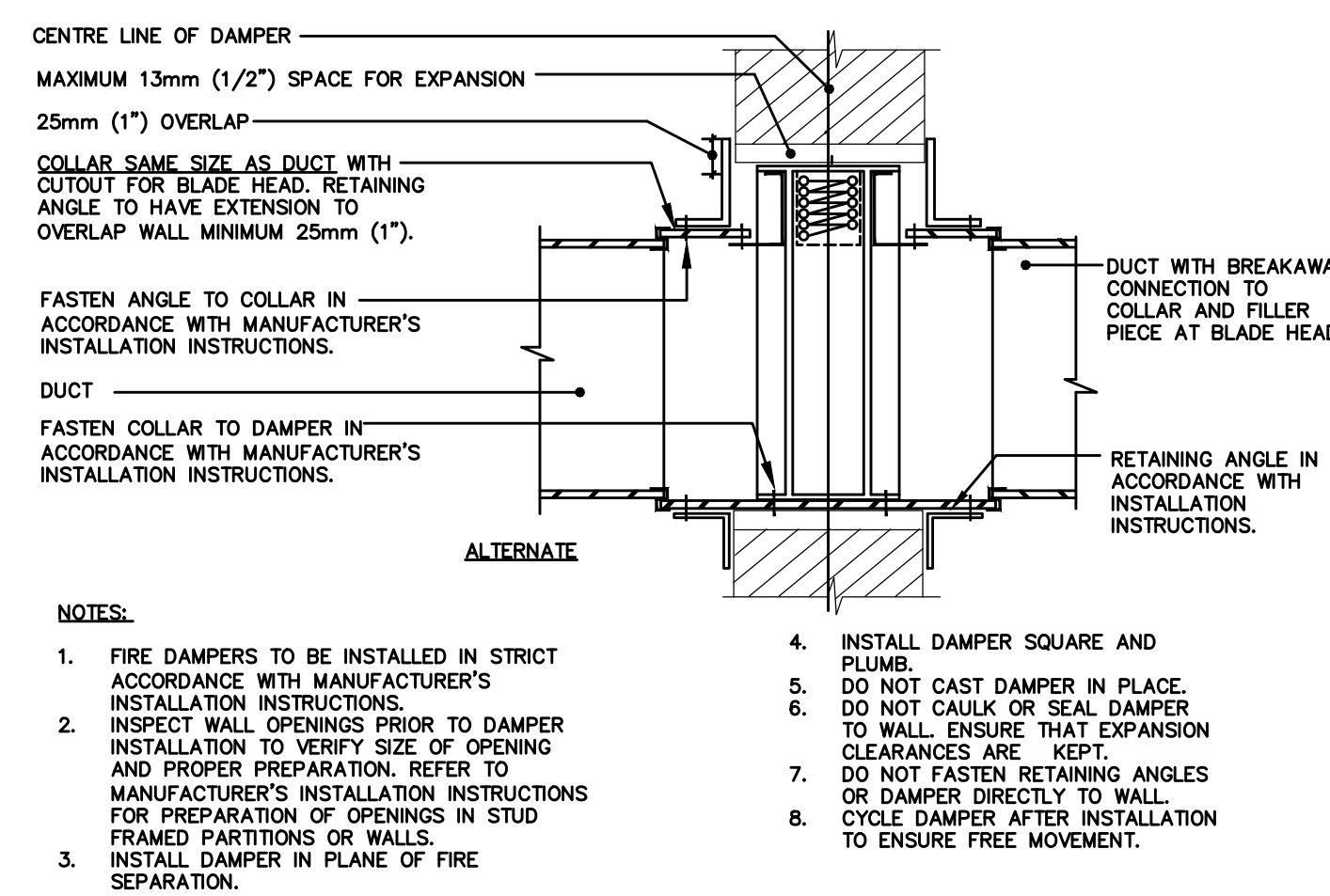
6
M-400
DETAIL OF ROUND TAKE-OFF



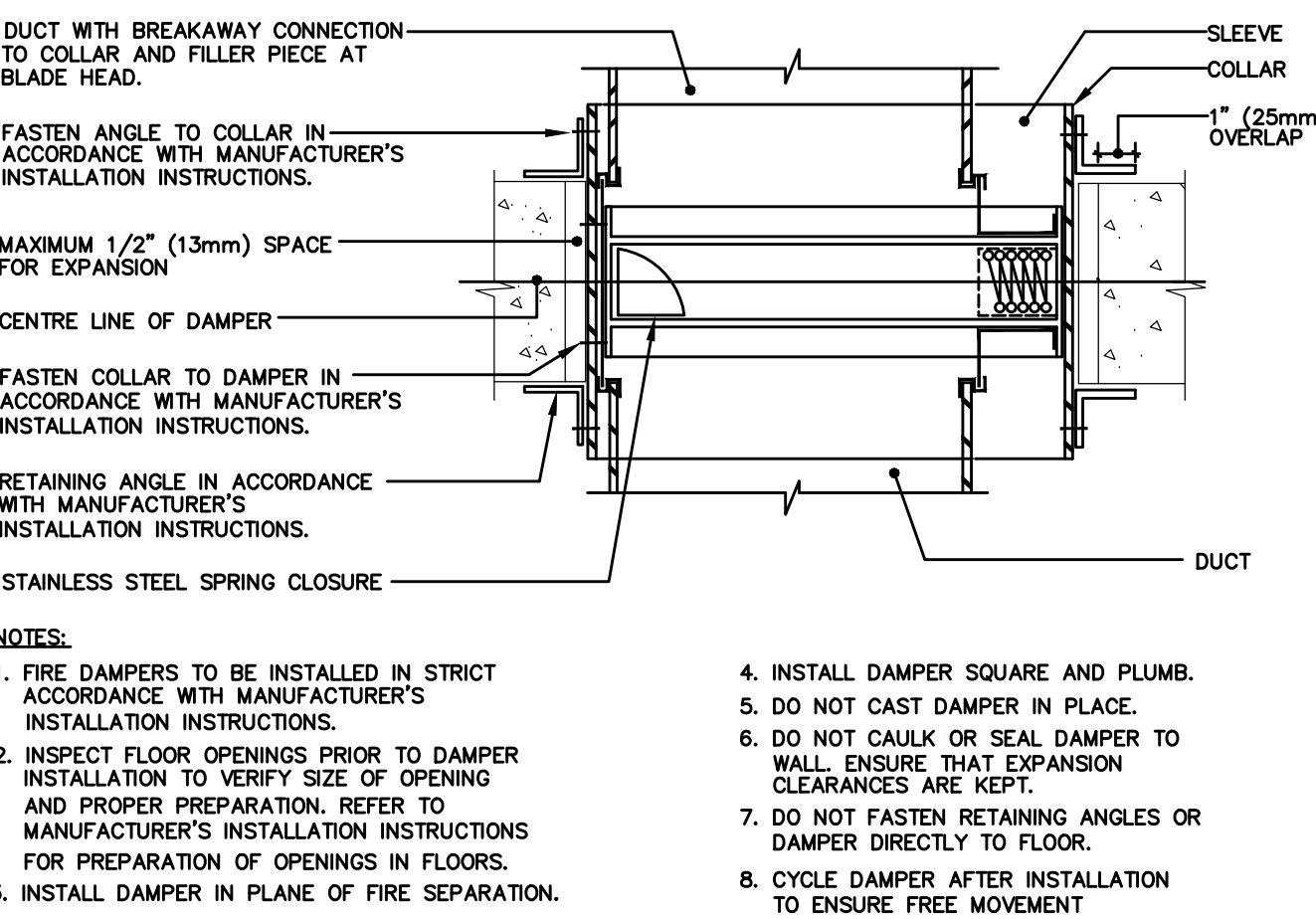
7
M-400
DETAIL OF FULL RADIUS ELBOW BRANCH TAKE-OFF



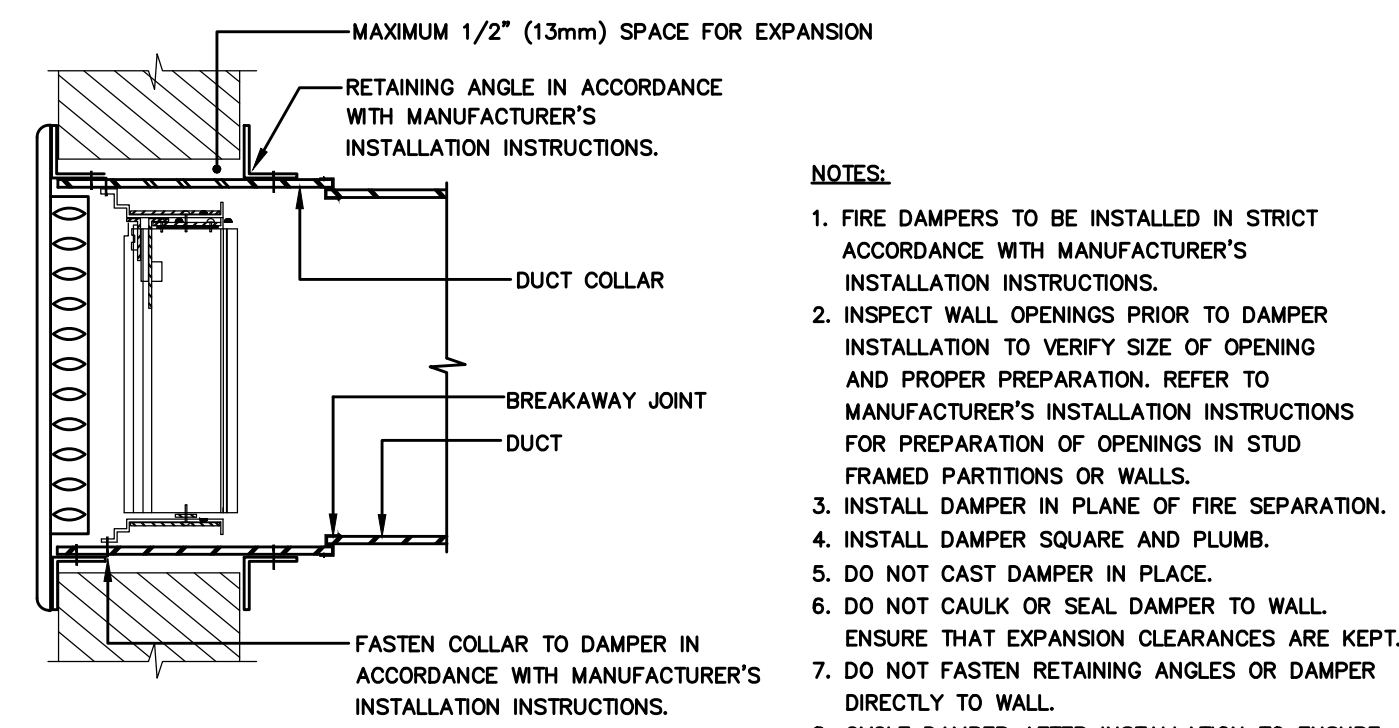
8
M-400
DETAIL OF SPLITTER DAMPER



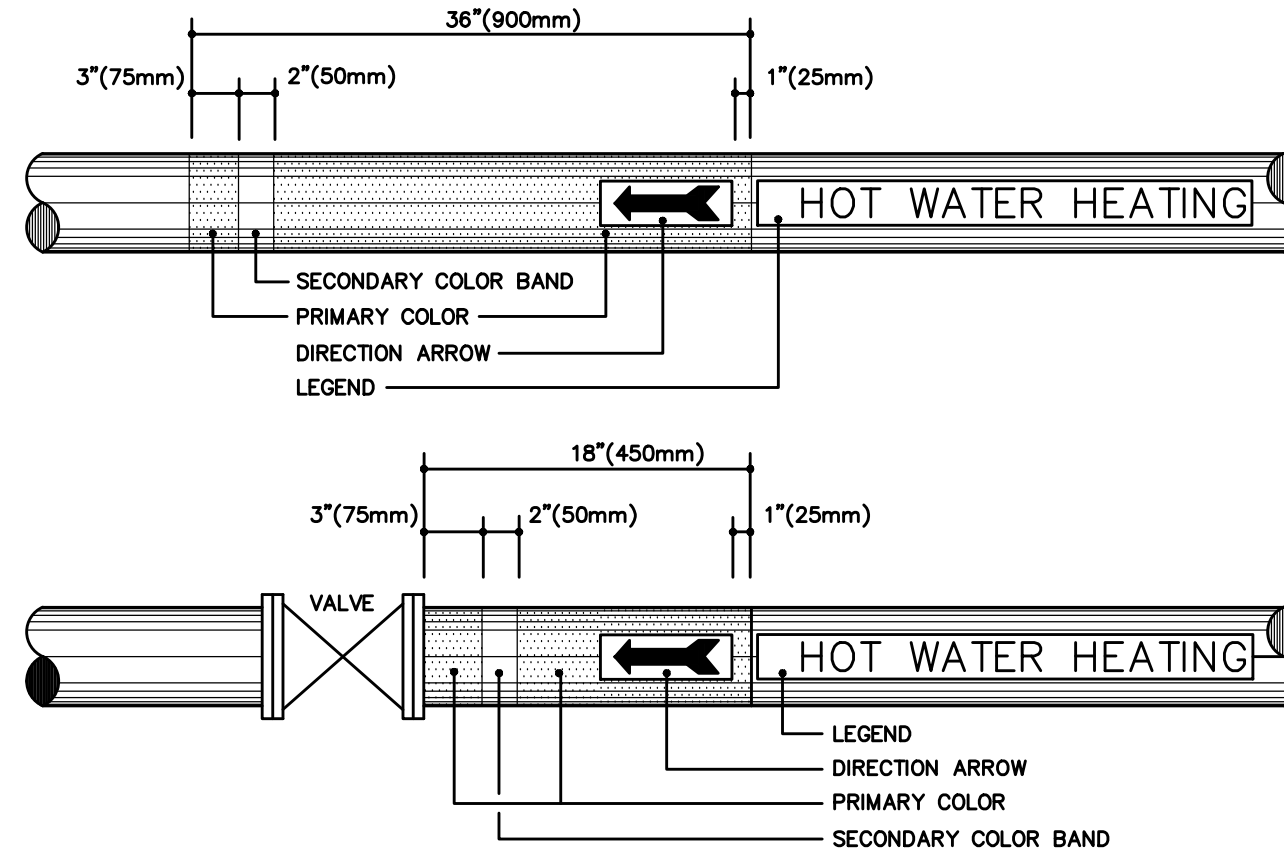
9
M-400
DETAIL OF TYPE 'B' FIRE DAMPER INSTALLATION - VERTICAL ALT.



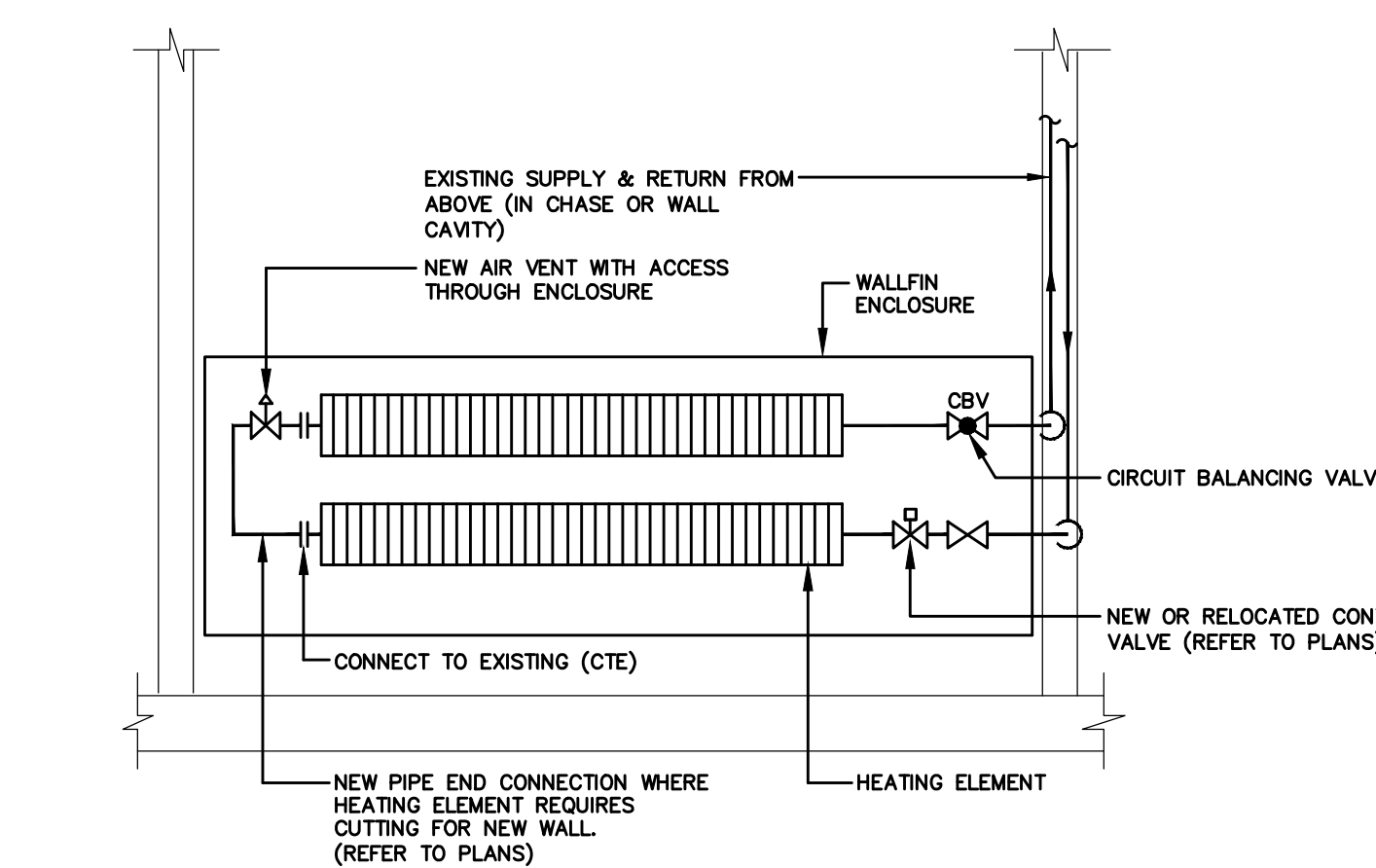
10
M-400
DETAIL OF TYPE 'B' FIRE DAMPER INSTALLATION - HORIZONTAL



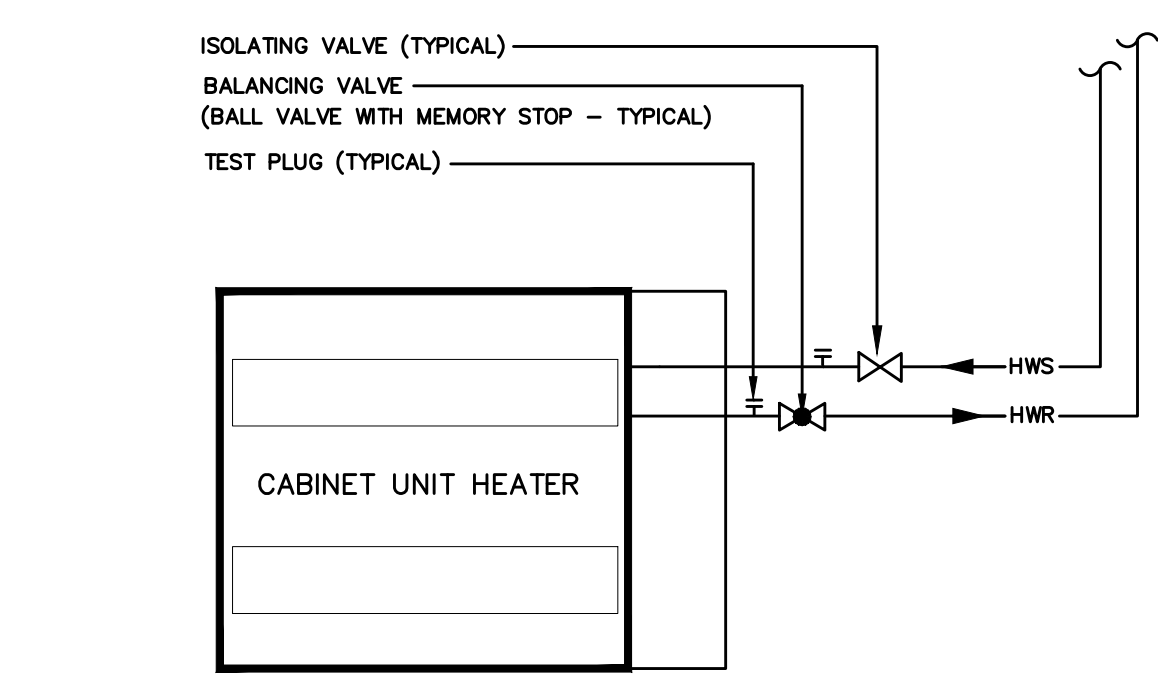
11
M-400
DETAIL OF SIDE WALL FIRE DAMPER INSTALLATION



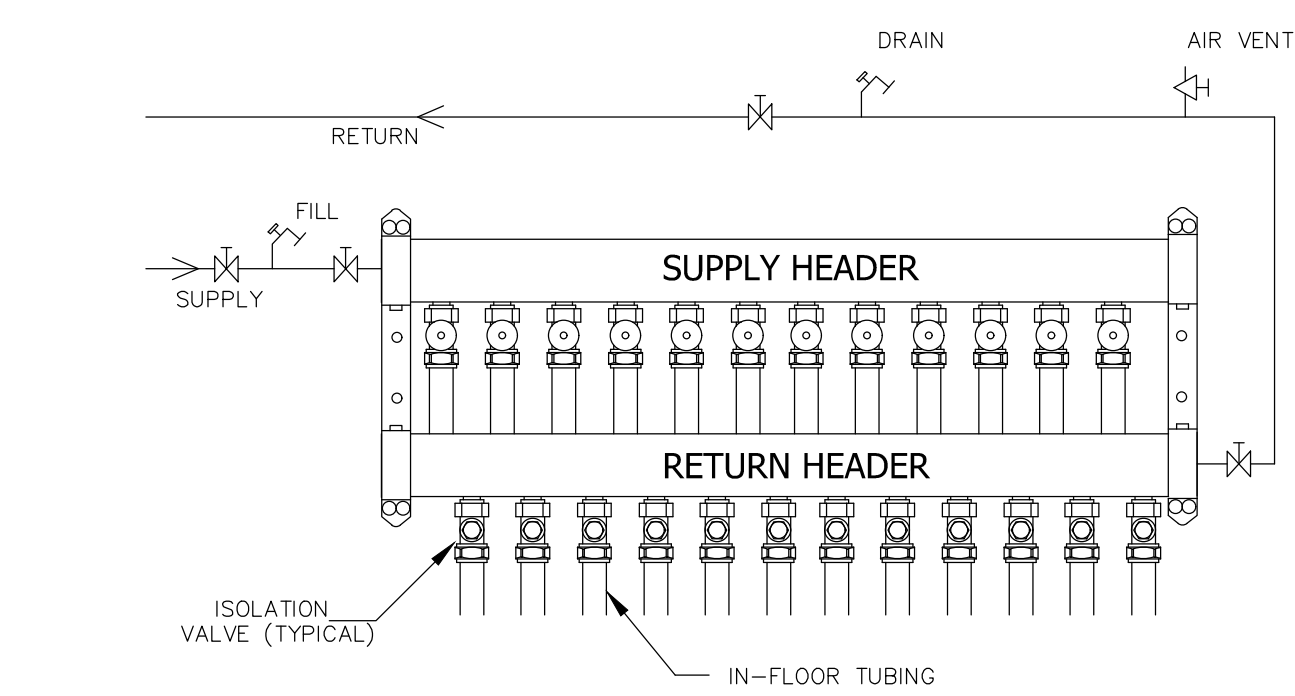
12
M-400
DETAIL OF PIPING IDENTIFICATION



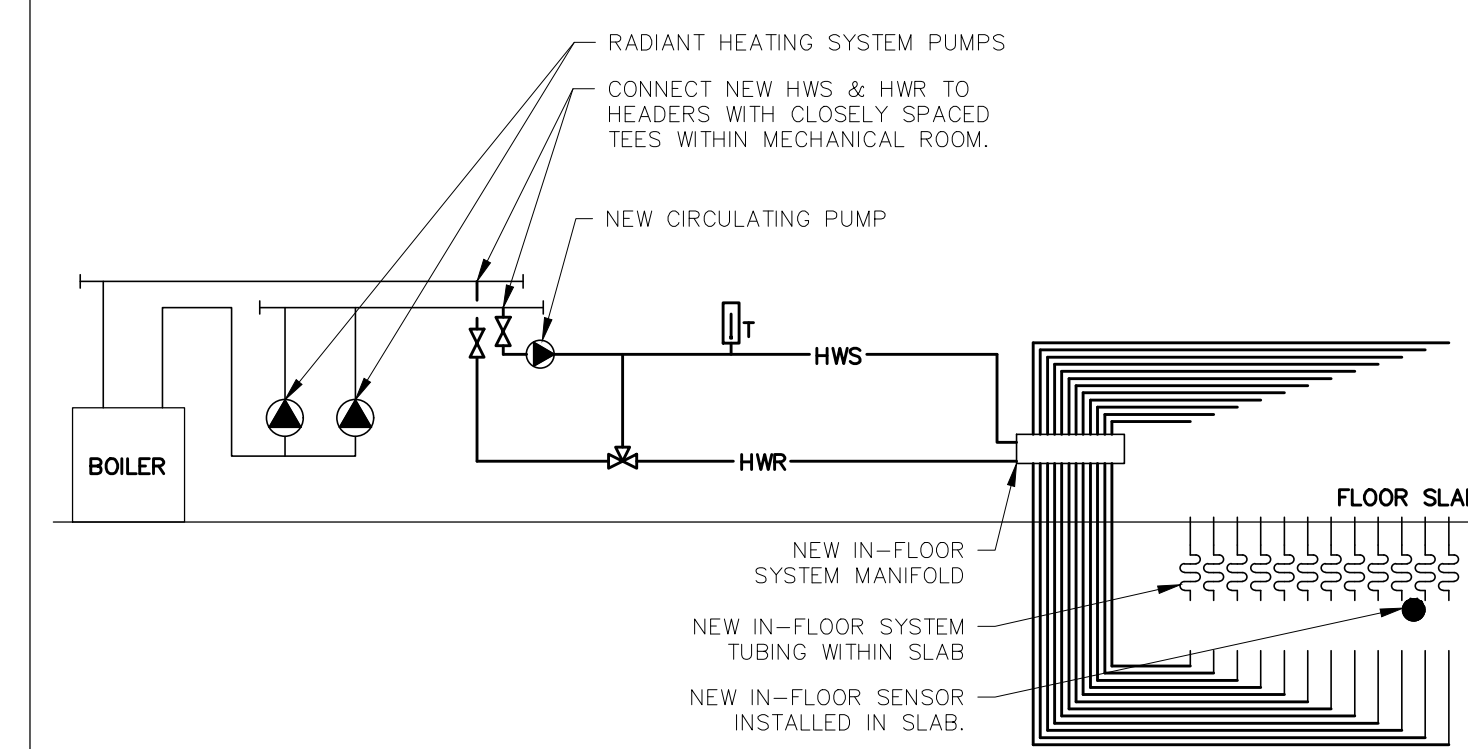
13
M-400
DETAIL OF WALL FIN PIPING



14
M-400
DETAIL OF PIPING TO CABINET UNIT HEATER (FORCE FLOW)



15
M-400
DETAIL OF IN-FLOOR HEATING MANIFOLD



16
M-400
DETAIL OF IN-FLOOR HEATING SYSTEM

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VR 16-178

| # | ISSUED FOR | DATE |
|---|------------------------------|------------|
| 6 | ISSUED FOR TENDER | 12.10.2017 |
| 5 | ISSUED FOR PRE-TENDER REVIEW | 25.08.2017 |
| 4 | ISSUED FOR 95% REVIEW | 18.08.2017 |
| 3 | ISSUED FOR 90% REVIEW | 09.08.2017 |
| 2 | ISSUED FOR REVIEW | 07.07.2017 |
| 1 | ISSUED FOR 33% REVIEW | 23.12.2016 |
| # | ISSUED FOR | DD.MM.YY |

REVISIONS:

ARCHITECT SEAL: _____ NORTH ARROW:

CLIENT: _____

ARCHITECT: _____

PROJECT TITLE: MCNAB BRAESIDE

ARNPRIOR ONTARIO

SHEET TITLE: TOWN HALL - MECHANICAL DETAILS

DRAWN: AW CHECKED: IF
 SCALE: 1:50 SHEET No: M400
 PROJECT No: 16-178