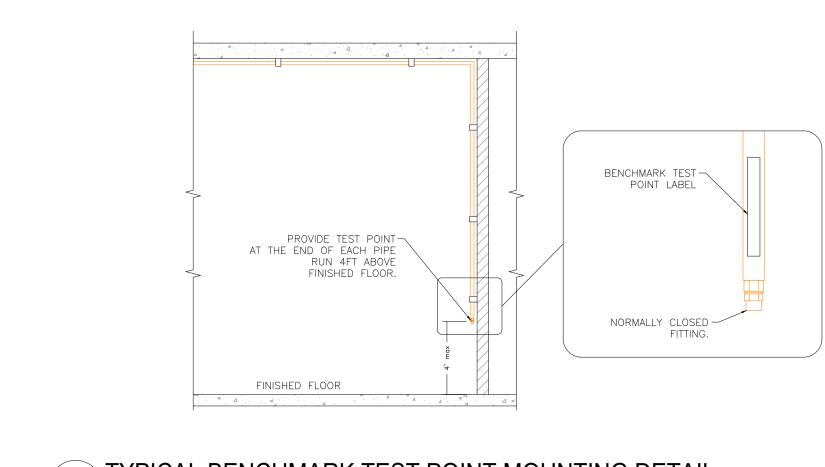


RIGID 3/4" CPVC PIPE ONLY.
UNIONS 'S E
ان IG SMOKE DETECTOR APPARATUS (INVERTED).
MOUNTING
OF APPROXIMATELY 48" TO 60" (1200
EQUIPMENT OR EQUIPMENT SUPPORTS

1"-4" (25 mm - 100 mm)

BELOW DECK



## NOTE:

- BENCHMARK TEST POINT SHALL BE PROVIDED AT THE FURTHEST END OF EACH PIPE RUN, OPPOSITE END OF THE ASSD APPARATUS.
- PROVISIONS SHALL BE MADE SO THAT THIS TEST POINT CAN BE LOCATED WITHIN 48" (1200 mm) ABOVE FINISHED FLOOR. 3
- CAP WITH PRE-CALIBRATED 1/8" (3.0 mm) HOLE IS TEMPORARILY FITTED TO FACILITATE BENCHMARK PERFORMANCE VERIFICATION AS INDICATED IN THEY SPECIFICATIONS AND ON THESE DRAWINGS. THIS REMOTE TEST POINT IS INTENDED TO BENCHMARK SYSTEM PERFORMANCE AT TIME OF INITIAL COMMISSIONING AND 4
- DURING ROUTINE TEST AND INSPECTION.
- MANUFACTURER'S SUPPLIED LABELS INTENDED FOR THIS PURPOSE. BENCHMARK LABELS SHALL BE PLACED CLOSE TO TEST POINTS AND BE POSITIONED SO THAT THEY ARE VISIBLE WITHOUT
- OBSTRUCTION.
- PROVIDE A DETAIL OF THIS TEST POINT ALONG WITH SIGNAGE INFORMATION FOR APPROVAL.

## **FLAG NOTES**

BASIS OF DESIGN IS XTRALIS, INC VESDA AIR SAMPLING SMOKE DETECTION APPARATUS.

- PROVIDE NECESSARY UNIT(S) AND PIPING TO SAMPLE AREAS INDICATED ON THE DRAWINGS. PROVIDE THE FOLLOWING MONITORING PER AIR SAMPLING SMOKE DETECTION APPARATUS AS A MINIMUM TO THE FIRE ALARM CONTROL PANEL: POWER SUPERVISION, FAULT, PRE-ALARM AND ALARM CONDITIONS. PROVIDE ADDITIONAL MONITORING AS REQUIRED BASED ON THE MANUFACTURER'S RECOMMENDATIONS. MOUNT AIR SAMPLING SMOKE DETECTION APPARATUS 48" TO 60" (1200 mm TO 1500 mm) TO TOP OF DETECTOR MEASURED ABOVE FINISHED FLOOR. REFER TO VESDA INSTALLATION DETAIL #1.
- PROVIDE LISTED AND APPROVED REGULATED POWER SUPPLY OF NOMINALLY 24VDC. POWER SUPPLY SHALL BE PROVIDED WITH APPROPRIATELY SIZED/RATED BATTERIES TO ACCOMMODATE THE SYSTEM(S) POWER REQUIREMENTS FOR A DURATION OF TIME REQUIRED BY THE LOCAL AHJ IN THE EVENT MAIN AC POWER IS INTERRUPTED.
- AIR SAMPLING PIPE DISTRIBUTION NETWORKS SHALL BE CONSTRUCTED USING RIGID PIPE MOUNTED TO THE UNDERSIDE OF THE STRUCTURAL CEILING. REFER TO VESDA **INSTALLATION DETAIL #2.**
- SAMPLING POINTS SHALL BE DRILLED DIRECTLY INTO THE AIR SAMPLING PIPE DISTRIBUTION NETWORK, BE ORIENTED DOWNWARD AND BE WITHIN 1" TO 4" (25 mm TO 100 mm) BELOW THE UNDERSIDE OF THE STRUCTURAL CEILING/ FALSE FLOOR. REFER TO VESDA INSTALLATION DETAIL #2 AND #5. FOR STRUCTURAL CEILINGS THAT HAVE BEAMS, GIRDERS, SOLID JOIST OR A WAFFLE-LIKE CONSTRUCTION, ETC, AIR SAMPLING PIPE DISTRIBUTION NETWORKS SHALL MOUNT TO THE UNDERSIDE OF STRUCTURAL BEAMS WITH STANCHIONS HAVING SAMPLING POINT EXTEND UP INTO EACH BEAM POCKET AT LOCATIONS WHERE SAMPLING POINTS ARE REQUIRED. REFER TO VESDA INSTALLATION DETAIL #3 WHERE DROP CEILINGS ARE PRESENT SAMPLING POINTS SHALL BE REMOTELY MOUNTED TO THE UNDERSIDE OF THE DROP CEILING, BE ORIENTED DOWNWARD AND BE WITHIN 1" TO 4" (25 mm TO 100 mm) BELOW UNDERSIDE OF THE DROP CEILING. REFER TO VESDA INSTALLATION DETAIL #4 SAMPLING POINTS SHALL BE A MINIMUM OF 48" (1200 mm) AWAY FROM AIR SUPPLY DIFFUSERS AND BE INSTALLED IN AN AREA ON THE CEILING THAT IS FREE FROM OBSTRUCTIONS FOR A MINIMUM OF 18" (450 mm) ON ALL SIDES AS POSSIBLE.
- PLACEMENT OF SAMPLING POINTS NEAREST TO WALLS SHALL BE GREATER THAN 12" (300 mm) AND NOT EXCEED 7'-0" (2150 mm). AIR SAMPLING PIPE DISTRIBUTION NETWORKS SHALL BE CONSTRUCTED USING RIGID PIPE MOUNTED TO FACE OF RETURN AIR GRILLES PRIOR TO FILTRATION IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES SAMPLING POINTS SHALL BE DRILLED DIRECTLY INTO THE AIR SAMPLING PIPE DISTRIBUTION NETWORK, BE ORIENTED DOWNWARD 33° TO 45° TOWARDS THE INCOMING
- AIRFLOW AND SHALL NOT BE PLACED OUTSIDE OF GRILLE AREA. REFER TO VESDA INSTALLATION DETAIL #6. SAMPLE POINT SPACING FOR RETURN AIR GRILLE DETECTION SHALL BE BASED UPON SAMPLING POINT DISTRIBUTION OF A MAXIMUM OF ONE (1) SAMPLE POINT PER EVERY 4 SQ. FT. (0.40 SQ. M) OF GRILLE AREA. SAMPLING POINTS COVERING RETURN AIR GRILLES SHALL STANDOFF 3" TO 6" (75 mm TO 150 mm) FROM THE GRILLE IN ORDER TO AVOID THE LOW OR NEGATIVE PRESSURE POINT DIRECTLY AT THE GRILLE SURFACE. A MEANS TO DISCONNECT THE SAMPLING PIPE FROM RETURN AIR GRILLES SHALL BE PROVIDED AND BASED ON MANUFACTURER'S GUIDELINES. MECHANICAL STANDOFF FASTENERS USED TO SUPPORT THE SAMPLING PIPE NETWORK SHALL BE FIT FOR PURPOSE. PLASTIC ZIP TIES ARE NOT PERMITTED. REFER TO VESDA INSTALLATION DETAIL #7.
- ) A BENCHMARK TEST POINT SHALL BE PROVIDED AT THE FURTHEST END OF EACH PIPE RUN, OPPOSITE END OF THE ASSD APPARATUS. PROVISIONS SHALL BE MADE SO THAT THE TEST POINT CAN BE LOCATED WITHIN 48" (1200 mm) ABOVE FINISHED FLOOR. THE TEST POINT SHALL BE CONSTRUCTED USING A NORMALLY CLOSED INDUSTRIAL QUICK CONNECT FITTING WITH AN ORIFICE OF NOMINAL 1/8" (3.0 mm) WHEN OPEN TO FACILITATE BENCHMARK PERFORMANCE VERIFICATION. THIS REMOTE TEST POINT IS INTENDED TO BENCHMARK SYSTEM PERFORMANCE AT TIME OF INITIAL COMMISSIONING AND DURING ROUTINE TEST AND INSPECTION. THE TEST POINT SHALL BE LABELED DOCUMENTING BENCHMARK SYSTEM PERFORMANCE AT TIME OF COMMISSIONING USING MANUFACTURER SUPPLIED LABELS INTENDED FOR THIS PURPOSE. BENCHMARK LABELS SHALL BE PLACED JUST ABOVE TEST POINTS AND BE POSITIONED SO THAT THEY ARE VISIBLE WITHOUT OBSTRUCTION. REFER TO VESDA INSTALLATION DETAIL #10.

## TYPICAL BENCHMARK TEST POINT MOUNTING DETAIL

THE TEST POINT SHALL BE CONSTRUCTED USING A NORMALLY CLOSED REMOVABLE END CAP WHEREBY A REPLACEMENT END

THE TEST POINT SHALL BE LABELED DOCUMENTING BENCHMARK SYSTEM PERFORMANCE AT TIME OF COMMISSIONING USING

	ME FIRE ALARM SYSTEM PLAN
	432 US Hwy 72 Suite 3, Collierville, TN 38017 (901)854-0510 TN-C1472/QA-0358
N	This Fire Alarm System shall be installed in compliance with: NFPA72, 2013 ed, and all wiring shall comply with NFPA70, Article 760.
G	ig stady ig y LAST REVISION: 2/18/2021 BY: RGG CHECKED BY: PEH FA-5

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