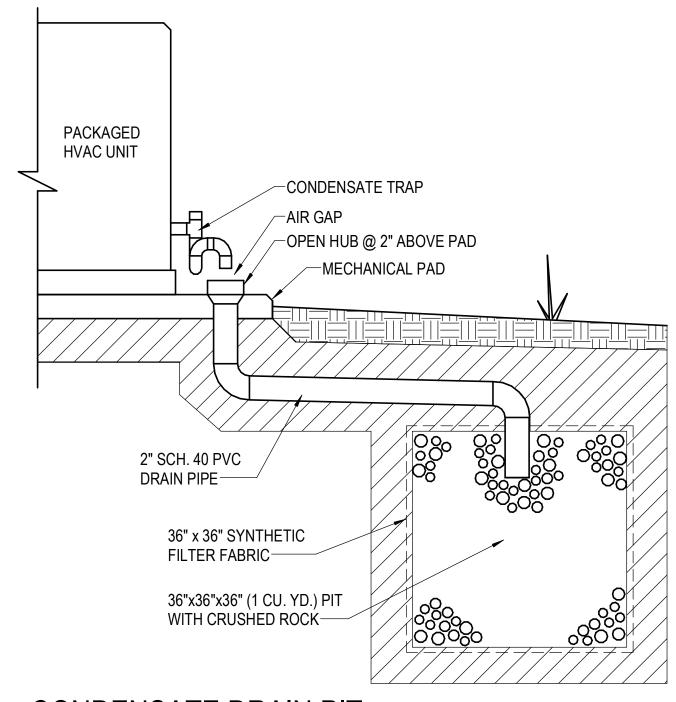


- . WHERE STANDARD RADIUS TURNS ARE NOT POSSIBLE, MITERED ELL'S WITH TURNING VANES SHALL BE PROVIDED FOR ALL CHANGES IN HORIZONTAL AND VERTICAL DUCT DIRECTION 45-DEGREEOR GREATER.
- 2. CONSTRUCT ELBOWS IN ACCORDANCE WITH SMACNA HVAC DUCTCONSTRUCTION STANDARDS -METAL AND FLEXIBLE.
- 3. AIR VELOCITIES 1200 FPM AND LESS: A. TURNING VANE ELBOW SHALL BE TURNING VANE ELBOW SHALL BE
- SINGLE WIDTH VANES FOR VANE LENGTHS UP TO 24" B. TURNING VANE ELBOW SHALL BE ASHRAE FITTING CR3-15 WITH
- DOUBLE WIDTH VANES FOR VANE LENGTHS OVER 24". 4. AIR VELOCITIES OVER 1200 FPM: TURNING VANE ELBOW SHALL BE
- ASHRAE FITTING CR3-15 WITH DOUBLE WIDTH VANES. 5. ROUND ELBOWS SHALL BE SMOOTH OR GORED. 90-DEGREE GORED ELL'S SHALL BE MINIMUM 5-PIECE AND 45-DEGREE GORED ELL'S SHALL BE MINIMUM 3-
- 6. VANES SHALL BE WELDED TO THE VANE RAIL IN DUCT SYSTEMS WITH AIR VELOCITIES 3000 FPM AND HIGHER.
- 7. ELBOWS WITH MITERED THROATS/RADIUS HEELS AND ELBOWS WITH MITERED THROATS/CHAMFERED HEELS ARE NOT ACCEPTABLE.

2 DUCT ELBOW NOT TO SCALE

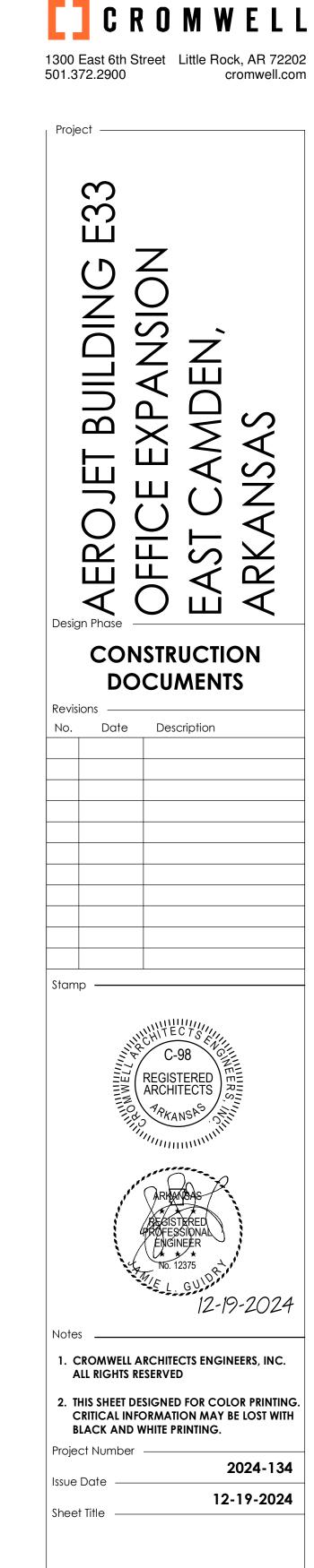


CONDENSATE DRAIN PIT NOT TO SCALE

ALUMINUM JACKETING OR FOIL-FACED RUBBERIZED BITUMEN WEATHERPROOFING -CONTRACTOR'S OPTION--PITCHED RIGID INSULATION FOIL-FACED RIGID INSULATION, 2" MANUFACTURER'S INSTRUCTIONS TOTAL INSULATION THICKNESS-MANUFACTURER'S INSTRUCTIONS PUSH-PIN FASTENERS FOR RIGID INSULATION--LAP JOINTS IN STRICT ACCORDANCE SHEET METAL WITH THE WEATHER PROOFING MANUFACTURER'S INSTRUCTIONS DUCTWORK-SEAL ALL BREAKS, JOINTS, AND PENETRATIONS THROUGH INSULATION JACKET WITH VAPOR RETARDER TAPE

- 1. ALL SHEET METAL DUCT JOINTS AND SEAMS SHALL BE THOROUGHLY COATED WITH A U.L. 181 COMPLIANT SEALANT, SMACNA SEAL CLASS A, HARDCAST OR EQUAL.
- 2. COMBINATION VAPOR/WEATHER/UV BARRIER SHALL BE EQUAL TO POLYGUARD ALUMAGUARD RUBBERIZED BITUMEN FOIL FACED MEMBRANE WITH ASPHALT/ASPHALT LAP SEALS. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 3. WHERE THE DUCTWORK PENETRATED THE BUILDING ENVELOPE, THE EXTERIOR WEATHERPROOF INSULATION SHALL EXTEND MIN. 6" INTO THE BUILDING INTERIOR BEFORE TRANSITIONING TO THE INTERIOR DUCT INSULATION SPECIFICATION.

EXTERIOR DUCT INSULATION WEATHERPROOFING NOT TO SCALE



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1. CROMWELL ARCHITECTS ENGINEERS, INC. 2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING. 2024-134 12-19-2024 MECHANICAL DETAILS Sheet Number