

# HVAC SPECIFICATION

WARNING NOTE TO SUB-CONTRACTOR:  
UN-AUTHORIZED CHANGES TO PLANS WITHOUT PERMISSION OF OWNER OR ENGINEER MAY BE REASON FOR DISAPPROVAL OF THE UN-AUTHORIZED LIBERTY TAKEN.

1. GENERAL:

- A. Provide labor, materials and equipment required for a complete system as outlined in these specifications and as shown on the drawings. Work herein shall comply with all applicable laws, International Mechanical code w/Georgia Amendments, and ordinances as adopted by the authority having jurisdiction and to the regulations of the local utility companies.
- B. Contractor will be responsible for obtain plan approval & obtaining all permits required to perform restoration work described herein. Notify Engineer immediately of any comments that need to be address from any plan review process.

2. MATERIALS AND EQUIPMENT:

All references as to manufacturers shall be interpreted as establishing a standard of quality and shall not be construed as limited competition.

3. AIR CONDITIONING EQUIPMENT:

Existing see sht. M-1.

4. SHEET METAL:

- A. Furnish and install all sheet metal ductworks, exhaust ducts, plenums, apparatus casings, and all accessories thereto as indicated on the drawings and as may be required for complete systems. All duct sizes shown are air passage (inside clear) dimensions and allowances shall be made for internal insulation where applicable. All duct work shall be constructed and installed in conformance with SMACNA low velocity duct construction standards manual, be able to defend workmanship.

- B. Duct tightness seal & tape all duct work joints, seams, connections before insulation. Follow SMACNA standard recommendations for sealing duct joints for air tightness.

5. INSULATION: (Where required)

- A. Insulate all ducts in concealed locations unless indicated otherwise, with 2 inch thick glass-fiber blanket type insulation with factory applied flame-retardant foil reinforced kraft facing equal to fiberglass FRK-25. Seal all joints with duct tape or other method approved by manufacturer. Secure insulation with 18 gage tie wires applied spirally every 18" inches. Liner shall be fiberglass 2 lb. density. 1 inch thick. See general notes on floor plan.

6. VIBRATION ISOLATION:

Unless otherwise shown on the plans, all mechanical equipment shall be provided with vibration isolating mountings to prevent unacceptable noise and vibrations during normal modes of operation.

7. FILTERS: (A/C UNITS)

Filters shall be of the size and arrangement normally furnished with units and shall be washable type, easily accessible.

8. FANS: (Required by Code)

Furnish and install fans as shown on drawings. Fans shall be dynamically balanced, free from objectionable noise and vibration during normal operation.

9. GRILLES, REGISTERS, AND DIFFUSERS:

Furnish and install grilles, registers and diffusers as shown on the drawings. All devices to have dampers for balancing purposes. Any changes in sizes and openings thru walls, etc. Due to substitution shall be coordinated with other trades and made at no additional cost to the owner(s). Use Titus TMSA diffusers with pattern adjustment.

10. TEMPERATURE CONTROLS:

Provide programmable T'stat. Provide mark timer for exhaust fans & vent fans wall mounted.

11. ELECTRICAL WORK:

The mechanical contractor shall provide all starters, contactors, relays, controls, and accessories as necessary to provide a complete system. The electrical contractor shall furnish all disconnect switches, conduit and power wiring for all equipment furnished herein. All work shall be done in accordance with the requirements listed under the electrical section of the specifications and NEC requirements. The mechanical contractor shall provide wiring diagrams and shall be responsible for the proper operation of the complete system and shall supervise the wiring of his equipment.

12. TESTING, ADJUSTING, AND BALANCING:

The mechanical contractor shall perform TAB as required to prove satisfactory operation of all equipment to engineer & owner.

13. CATALOG CUTS AND SHOP DRAWINGS:

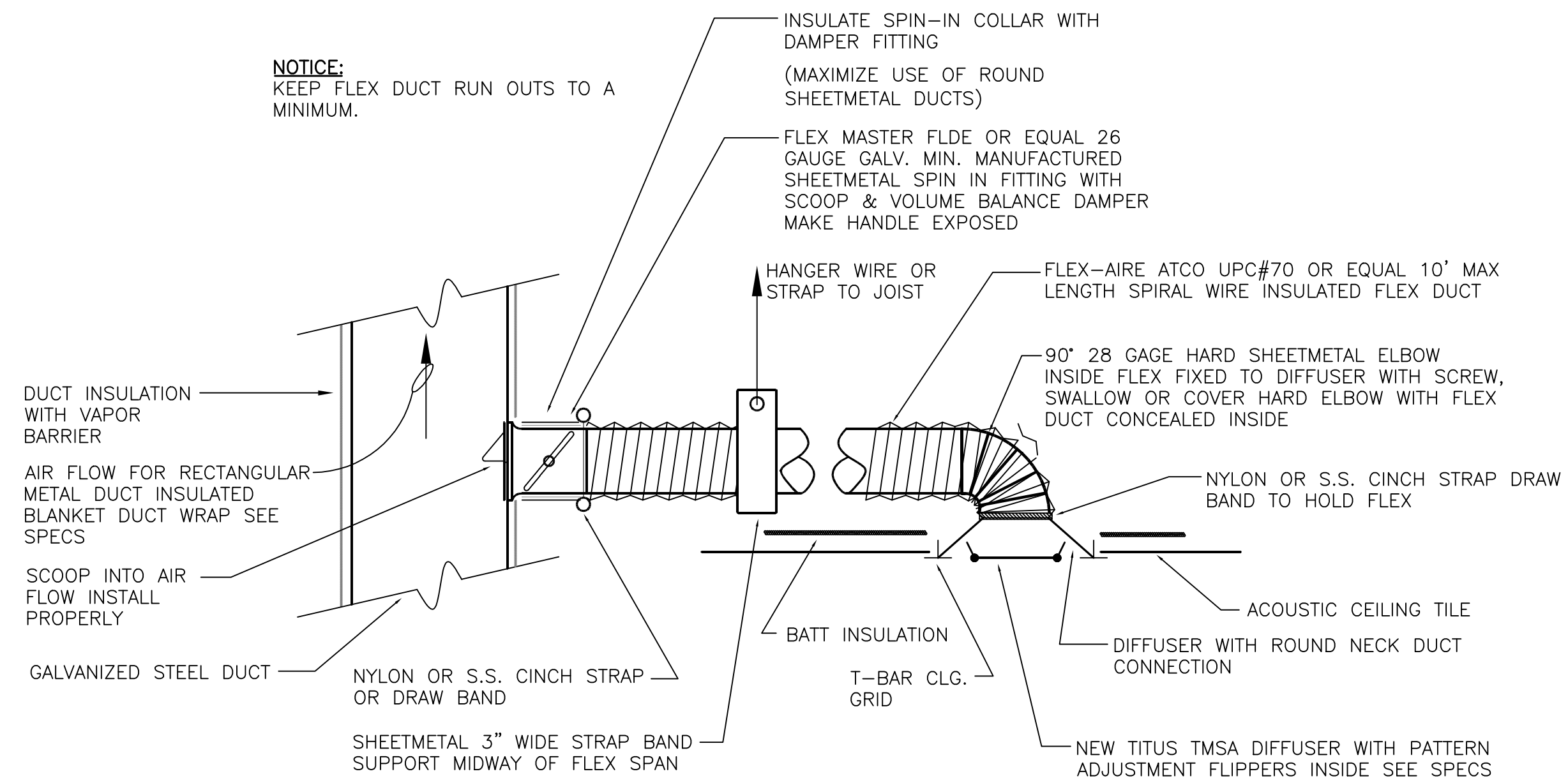
Six copies of the shop written or printed submittals will be submitted for review. Do not order equipment until catalog data and submittals have been approved and stamped by engineer or owner before ordering.

14. GUARANTEE:

All equipment shall be started, tested, balanced and placed in satisfactory operating condition by the contractor to satisfy Architect/Engineer and owner.

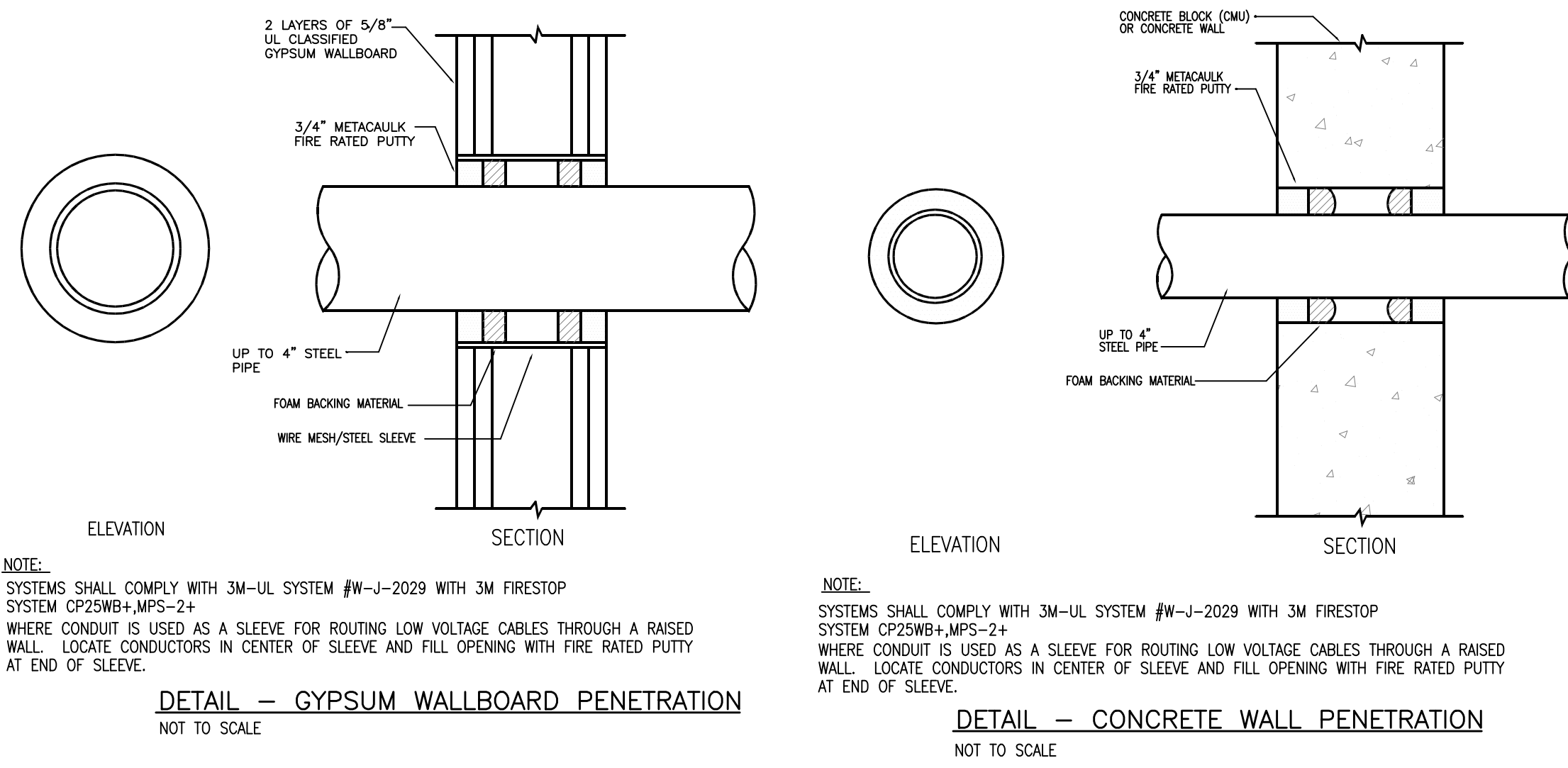
15. REFRIG PIPE SHOP DRAWINGS:

Supplier of matched equipment to submit shop drawing of refig. pipe kit, to also include sight glass & filter dryer.



## TYP. FLEX DUCT DETAIL AT DIFFUSER DETAIL

NOT TO SCALE



## WALL PENETRATIONS

NOT TO SCALE

NOT TO SCALE

