



1 PARTIAL 2nd. FLOOR MECHANICAL PLAN - NEW WORK

SCALE: 1/4" = 1'-0" NORTH

MECHANICAL

The current constant volume HVAC system serving the 2nd floor is served via an air handler located on the 1st floor. Two (2) supply ducts serve the area of renovation. Due to the change in room types, the existing supply ducts will need to be modified to coordinate the room. Pressurizations and air change rates will change as compared to existing. Therefore, it is anticipated the air handler serving the new Dialysis area will need to be re-balanced. It is highly recommended that a Pre-Test and Balance be performed to record the actual values the system is achieving. Based on the Pre-Test and Balance report, as well as the condition of the existing air handler, JLRD can evaluate whether to replace the entire unit. The existing air handler does have the required pre- and final filters.

The existing ductwork currently exits the shaft within a lowered soffit due to an existing beam. The existing duct height elevation shall be maintained, therefore, a soffit should be anticipated to allow the ducts to enter the dialysis area. Each penetration has or will require a fire/smoke damper due to the existing one hour fire smoke wall. Should the ducts need to be elevated or relocated, a cost impact not known at this time will occur.

The new ductwork layout shall be accomplished with constant volume HVAC and hot water coils controlled via a room thermostat. The rooms will have separate hot water coils o control setpoint temperature and humidity. Pressurizations shall conform to the latest AIA Guidelines.

Hot water is currently located on the 2nd floor and is available for use. Main 2-1/2" to 2" hot water lines may be utilized to serve new branch coils to maintain space temperature and humidity setpoints.

FIRE SPRINKLERS

Adjust piping to new head locations. Use all new fast acting heads.

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