

Diagram illustrating the components of the turntable assembly:

- TOP PLATE O.D.
- FOR CUSTOMER CONNECTION
- ON/OFF TOGGLE SWITCH
- SOLID STATE VARIABLE SPEED CONTROL
- TOP PLATE O.D.

Mount the standard PureFlo-FPM fan or equivalent and housing into the tee-bar ceiling and adjust or level the unit so there is minimum gap. Use caulking or gasket material at the peripheral surface where the filter housing and the mounting surface meet to eliminate all leakage paths. The unit may also be mounted suspended below the ceiling using the eyebolts.

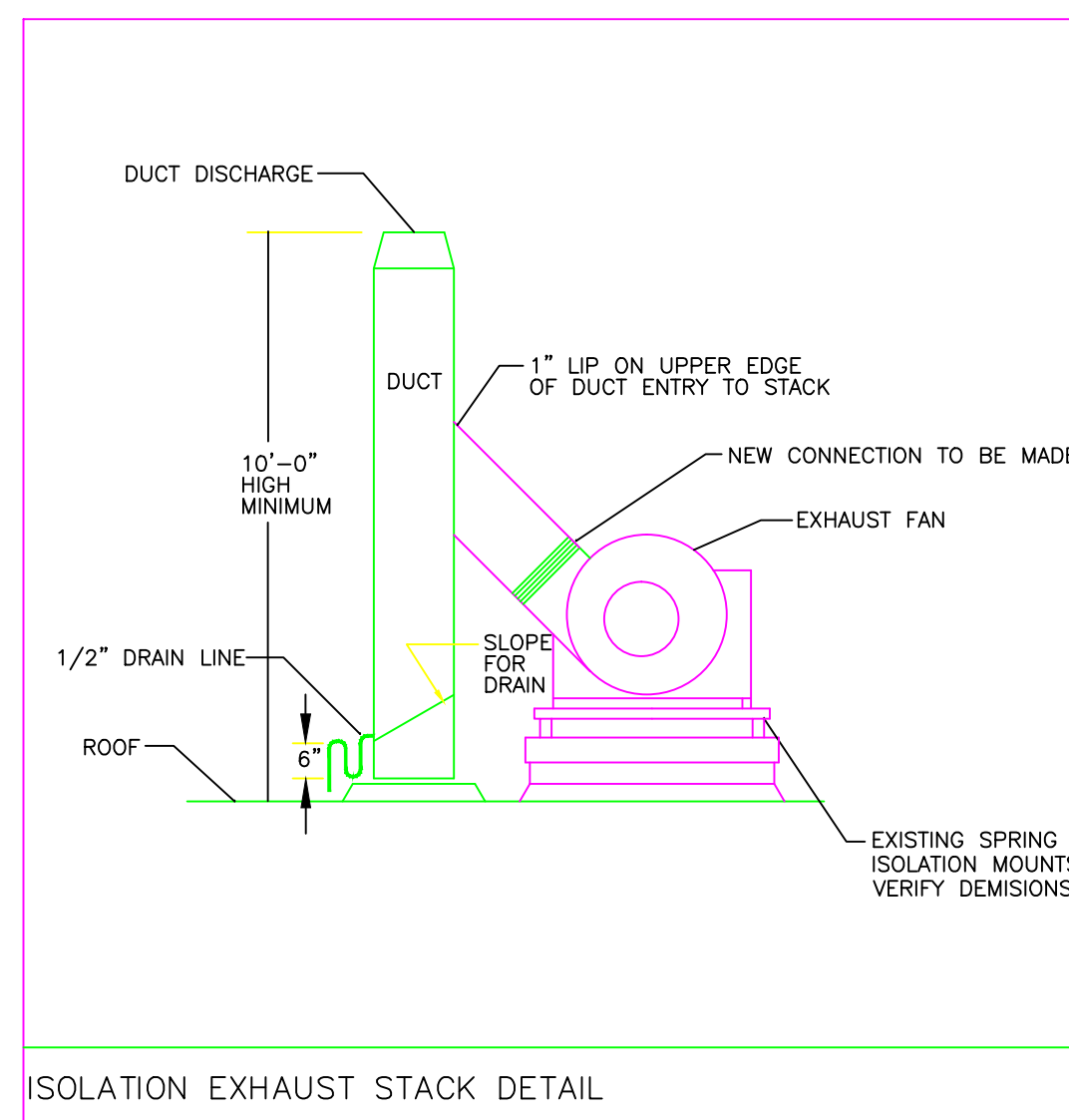
Bring the correct power supply to the Pureflo-FPM junction box. (115 vac, 60 Hz; 5 amp (1/3 HP motor) branch circuit per unit. Adhere to general specifications for wiring. Before making any connections, make sure the power on/off toggle switch is in the off position.

Check the knife-edges on the filter housing mounted in the ceiling to make sure the edges are straight and contamination free. Remove the six acorn nuts and nylon washers from the filter housing. Using two people on opposite ends of the filter, raise the filter into place, passing the studs on the filter housing through the holes in the gel seal filter frame. Once in the filter is in position, place the nylon sealing washers onto the studs first, then start the acorn nuts at all six locations. Tighten with a ratchet wrench until snug in place.

Check the knife-edges on the filter housing. CAUTION: DO NOT OVER-TIGHTEN. THE FILTER SEAL IS PROVIDED BY THE KNIFE EDGE IN THE GEL, AND DOES NOT DEPEND ON CLAMPING FORCE.

Turn on the unit and set the airflow by turning the speed control switch clockwise from "high," until the desired airflow is achieved. The recommended level is 90-fpm +/- 20%.

After time in service, when the airflow drops from the recommended 90 fpm +/- 20%, adjust the speed control higher to achieve the recommended airflow. If the flow cannot be obtained when the speed control has been set fully counter-clockwise to "high," (just before the speed control "off" position), it will be necessary to change filters.



- A. Fans selected shall be capable of accommodating static pressure and flow variations of +/-15% of scheduled values.
- B. Each fan shall be belt drive in AMCA arrangement 1, 3, 9 or 10 according to existing conditions.
- C. Fans are to be equipped with lifting lugs.
- D. After fabrication all carbon steel components shall be cleaned and chemically treated by a phosphorizing process to insure proper removal of grease, oil, scale, etc. Fan housings shall be coated with a minimum of 2 mils of Farnathcoat (Polyester Urethane) electrostatically applied and baked. Finish color shall be industrial gray. Coating must exceed 1,000-hour salt spray under ASTM B117 test method.

A. Fan housing is to be aerodynamically designed with high-efficiency inlet, engineered to reduce incoming air turbulence.

B. The housings on all fan sizes shall be of continuously welded heavy gauge steel. All interior and exterior surface steel shall be coated with a minimum of 2-4 mils of Perma-tector (Polyester Urethane), electrostatically applied and baked. Finish color shall be gray. No uncoated metal fan parts will be allowed.

C. Housing and bearing support shall be constructed of welded structural steel members to prevent vibration and rigid support the shaft and bearings.

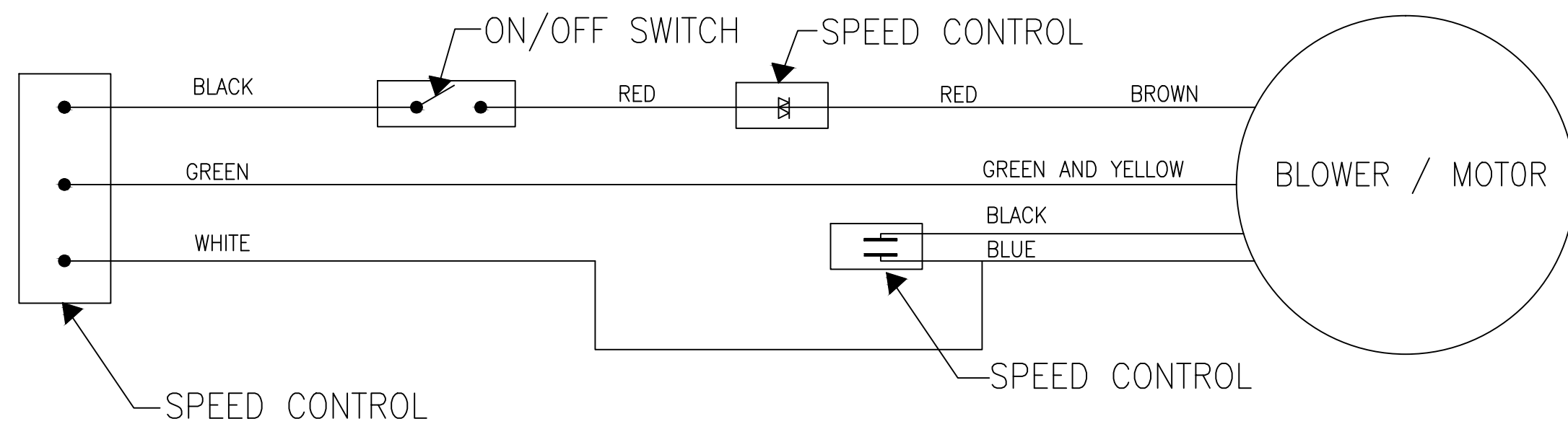
D. An OSHA compliant belt guard shall be included to completely cover the motor pulley and belt(s).

A. The fan wheel shall be of the non-overloading single width backward inclined centrifugal type. Wheels shall be statically and dynamically balanced to balance grade G6.3 per ANSI S219.

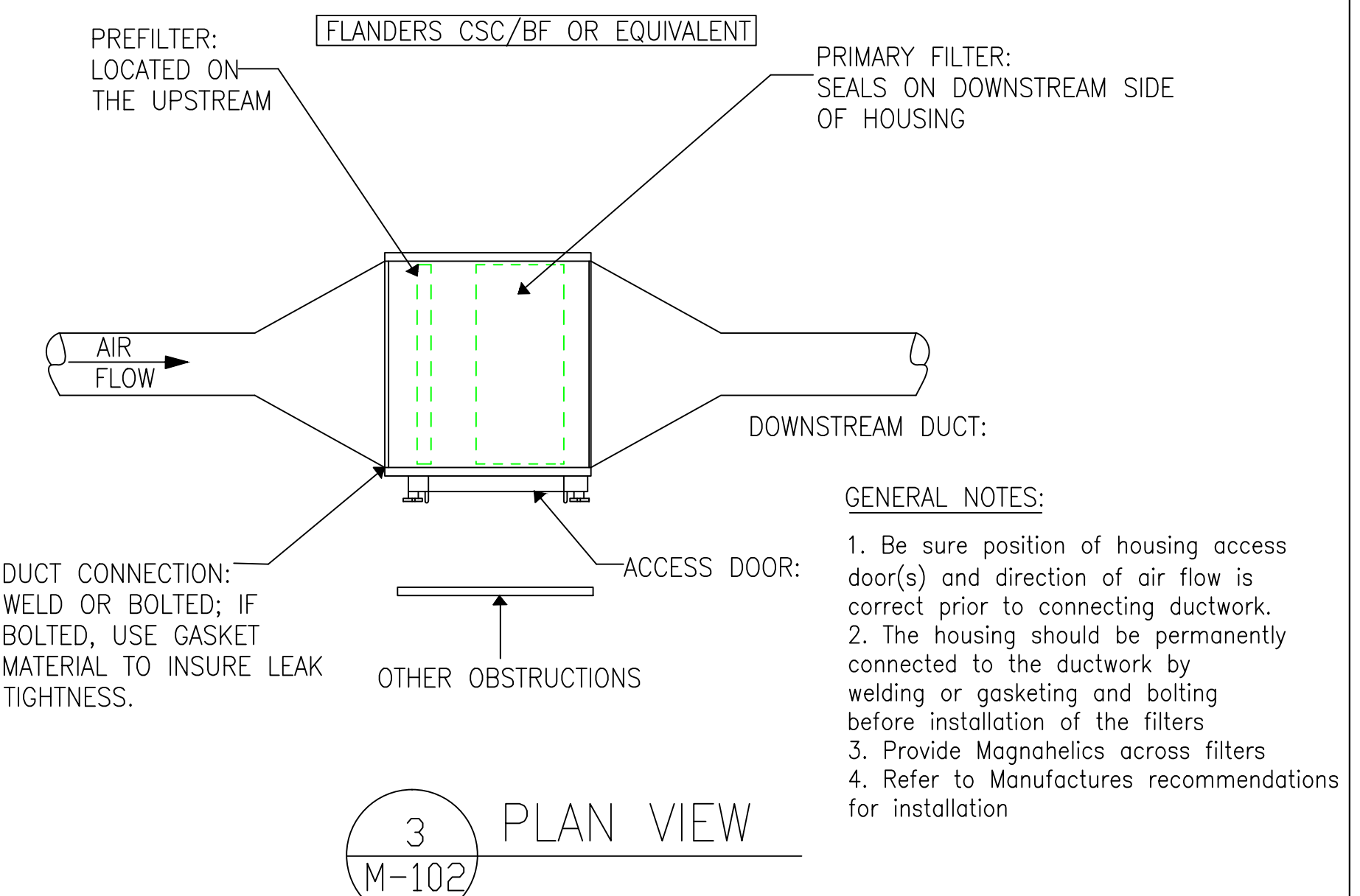
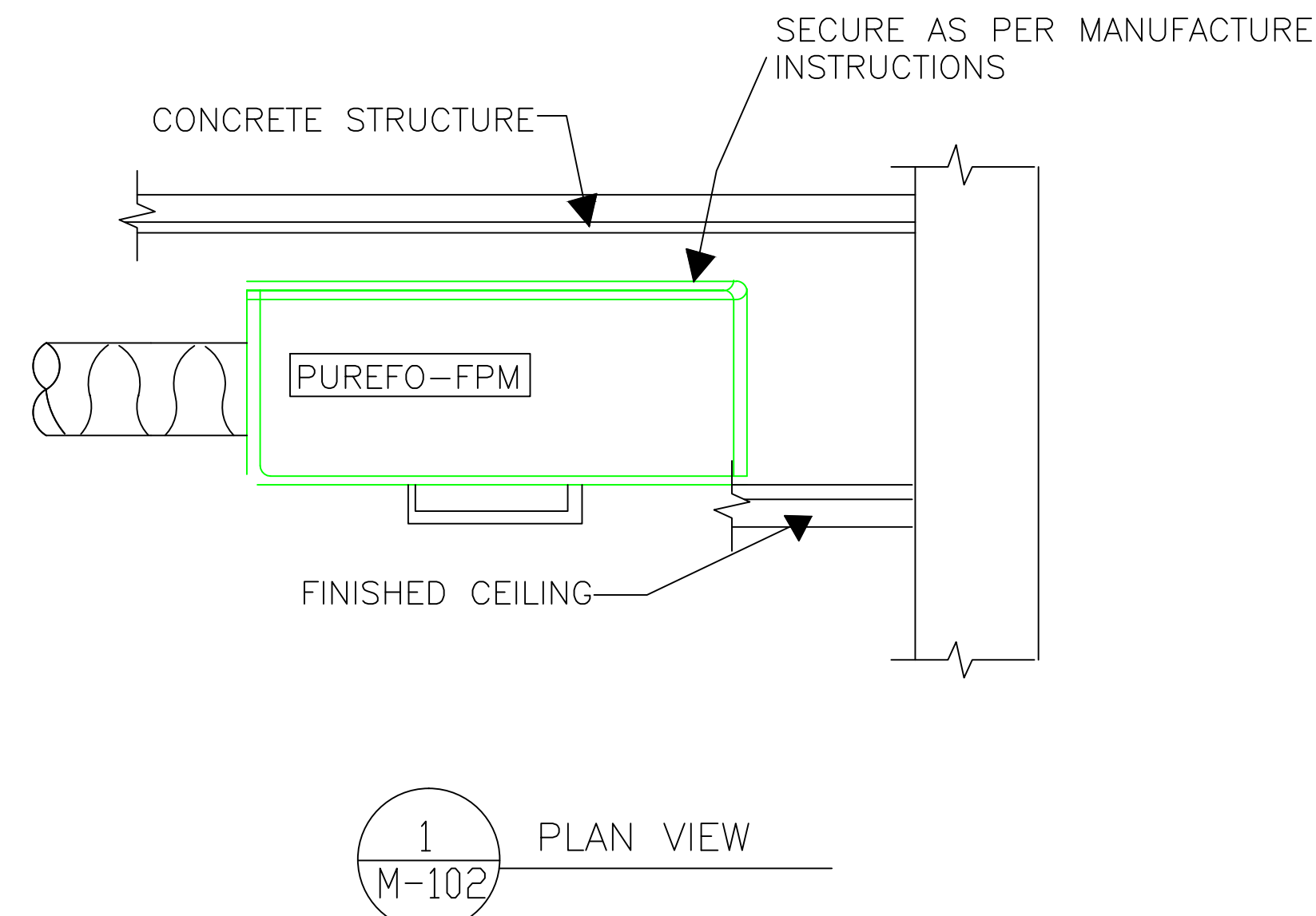
B. Fan wheel shall be manufactured with continuously welded steel blades and coated with a minimum of 2-4 mils of Permatorator (Polyester Urethane), electrostatically applied and baked. Finish color shall be industrial gray.

C. The wheel and fan inlet shall be carefully matched and shall have precise running tolerances for maximum performance and operating efficiency.

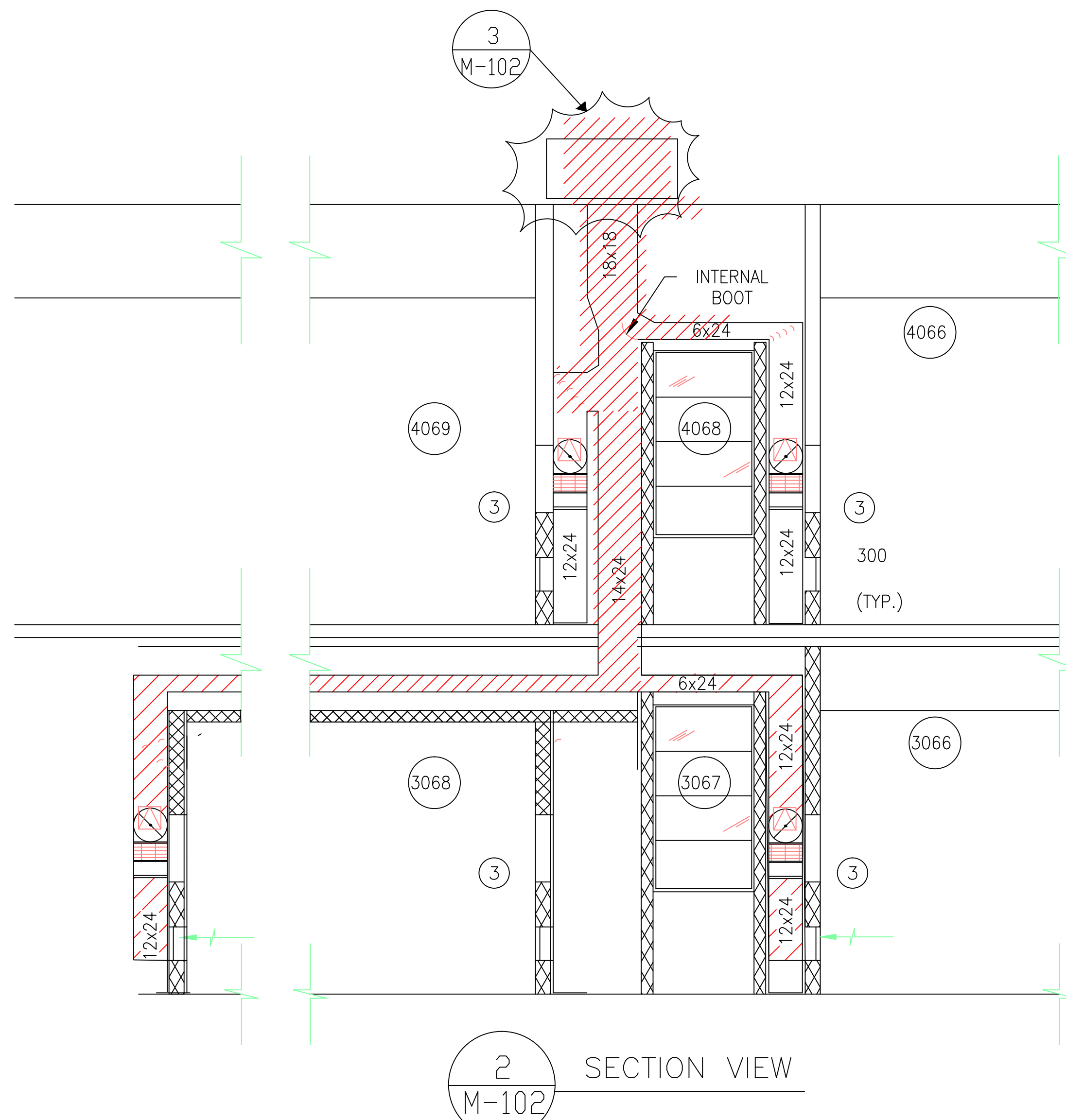
- A. Motors shall meet or exceed EPACT (Energy Policy Act) efficiencies. Motors to be NEMA T-frame, 1800 or 3600 RPM, Open Drip Proof (ODP) or Totally Enclosed Fan Cooled (TEFC) with a 115 service factor.
- B. Drives and shafts shall be designed to be capable for 100% of the operating brake horsepower, and shall be readily and easily accessible for service, if required.
- C. Fan shaft to be turned and polished steel that is sized so the first critical speed is at least 25% over the maximum operating speed for each pressure class.
- D. Fan shaft bearings shall be Air Handling Quality, bearings shall be heavy-duty grease lubricated, self-aligning or roller pillow block type.
- E. Air Handling Quality bearings to be designed with low swivel torque to allow the outer race of the bearing to pivot or swivel within the cast pillow block. Bearings shall be 100% tested for noise and vibration by the manufacturer. Bearings shall be 100% tested to insure the inner race diameter is within tolerance to prevent vibration.
- F. Bearings shall be selected for a basic rating fatigue life (L-10) of 50,000 hours at maximum operating speed for each pressure class (Average Life or (L-50) of 400,000 hours).
- G. Bearings shall be fixed to the fan shaft using concentric mounting locking collars, which reduce vibration, increase service life, and improve serviceability. Bearings that use set screws shall not be allowed.
- H. Bearings shall have Zerk fittings to allow for lubrication.



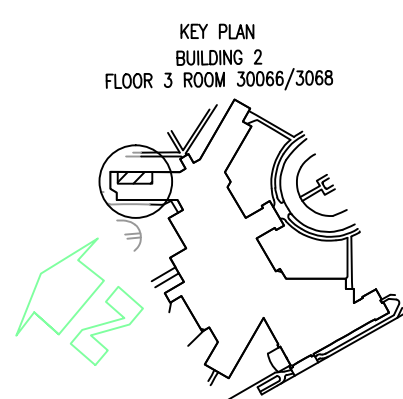
Refer to Manufactures recommendation for electrical connection and project specifications.
Also refer to electrical drawing of existing condition as a reference due to some conditions may vary and contractor needs to verify existing condition before installation of mechanical items.



PART QUANTITY	PART DESCRIPTION	FFI PART NO.
4	EYE BOLT 1/4"-20 UNC-2A x 2-3/8"	01927803
1	INLET COVER SCREEN	09158779
1	PRE-FILTER FOAM PAD 19-1/2" X 19-1/2" X 1/4"	09965042
1	BLOWER/MOTOR 240w, 115V AC	02307001
1	CAPACITOR 20uf	02307043
1	MOTOR BRACKET 14ga GALVANIZED	09158757
1	SPEED CONTROL KBWC-16 w/KNOB AND DECAL	02307059
1	ON/OFF TOGGLE SWITCH	02307046
1	BAFFLE PLATE ASSEMBLY AL	09156799

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Technical drawing of a 102mm diameter pipe with a 100mm diameter inlet. The drawing includes a side view, a top view, and a front view. The side view shows a total height of 20.592 and a width of 30.500. The top view shows a square flange with dimensions 14.250, 11.250, 11.375, and 8.375. The front view shows a total height of 29.915 and a width of 26.000. The inlet is labeled "INLET 0.011125" and the flange is labeled "FLANGE 0.013625".

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RECOMMEND				APPROVAL	
REQUESTER	Date				
CHIEF OF SERVICE	Date		CHIEF OF STAFF		Date
ASSOC. DIR. PATIENT CARE SVC.	Date		ASSOC. DIR. for OPERATIONS		Date
APPROVAL BY:					Date
MEDICAL CENTER DIRECTOR					

Drawing Title	
SECTIONS DETAILS	
Approved: Safety Manager/M&O Supervisor	
Approved: Chief of Facilities Management Svr.	

Project Title ISOLATION & BARIATRIC RENOVATION Bldg. 2 Fl 3		Date 14 OCT 2011
		Project No. 659-12-001
Building Number BUILDING #	Checked 	Drawn GLM
Location W.G.(BII) Hefner Medical Center 1601 Brenner Ave. Sallyburg NC 28144	DRAWING NO. M-102	
DWG. & OF 11		

Department of
Veterans Affairs