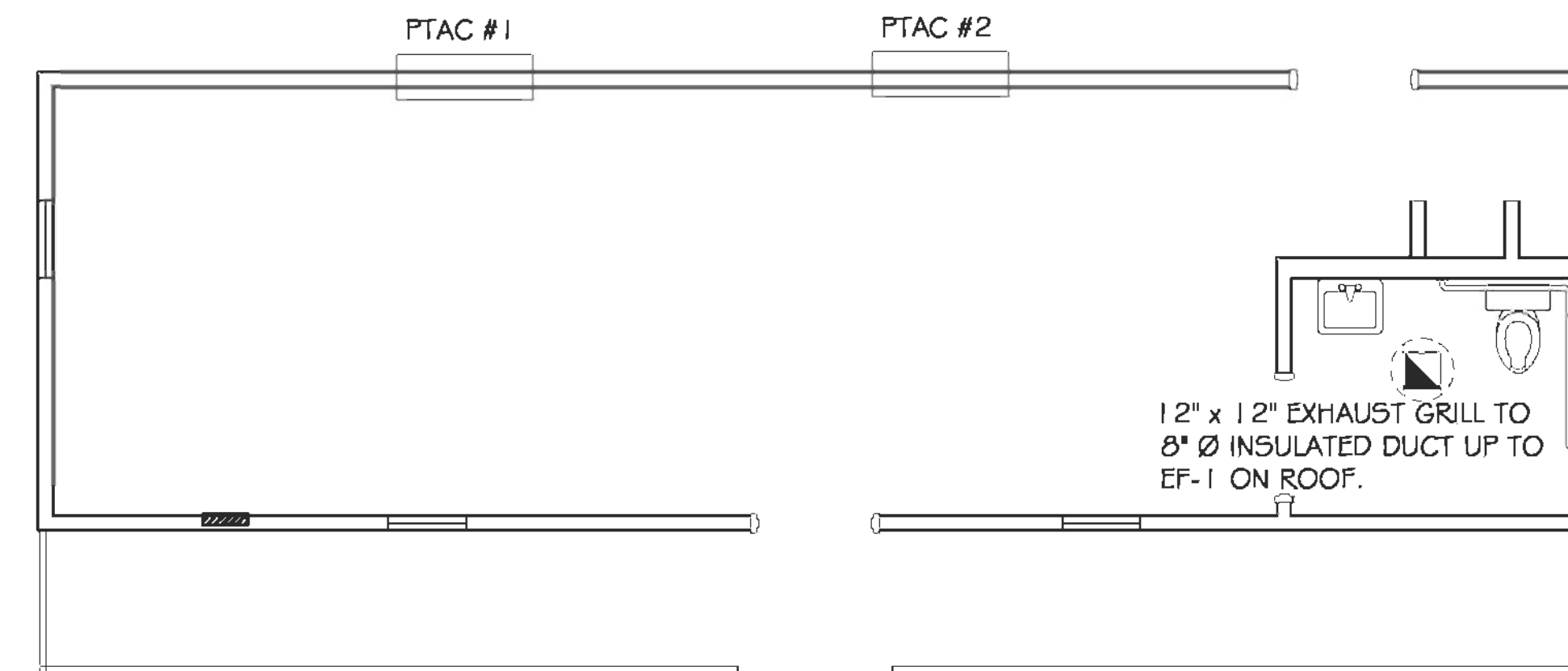


$$\begin{aligned} V_{bz} &= R_p P_z + R_a A_z \\ &= (7.5)(4) + (0.18)(92) = 47 \text{ cfm} \end{aligned}$$

Total Flow = 210 cfm

1. THE EXHAUST FAN IN THE RESTROOM SHALL RUN CONTINUOUSLY DURING BUSINESS HOURS TO MEET THE OUTDOOR AIR FLOW RATE. IT SHALL BE CONNECTED TO THE KITCHEN LIGHT SWITCH.

2. OUTSIDE AIR WILL INFILTRATE BUILDING FROM 2EA PTAC UNITS (2x75cfm = 150cfm) AND FROM 2EA DOORS (2x28cfm = 56cfm) THE REMAINDER SHALL INFILTRATE FROM THE ORDER AND SERVING SLIDING WINDOWS.




MECHANICAL PLAN
SCALE: 1" = 1'-0"

FAN SCHEDULE									
MARK	AREA SERVED	CFM	T.S.P. IN WG	MOTOR DATA			CONTROLLED BY	BASIS OF DESIGN	REMARKS
				HP	RPM	V/Ø/HZ			
EF-1	RESTROOM	210	0.25	1/10	1050	120/1/60	KITCHEN LIGHT SWITCH	ACME PRN 100	① ② ③ ④

- ① PROVIDE FACTORY MATCHED ROOF CURBS, BACKDRAFT DAMPERS, BIRDScreens AND SOLID STATE SPEED CONTROLLERS WITH THESE FANS.
- ② INSURE ROOF CURBS ARE FOR USE WITH TYPE ROOF BEING PROVIDED.
- ③ FURNISHED FAN AND CURB BY MECHANICAL CONTRACTOR
- ④ EXHAUST FAN SHALL RUN CONTINUOUS DURING BUSINESS DAY.

P-TAC #1 & #2 - A/C UNIT SCHEDULE							
TOTAL BTU	CFM	O.A.	HEAT (KW)	ELECTRICAL			COMMENTS
				VOLTAGE	MCA	CKT BRKR	
9200	300	75	2	240V,1Ø	-	20A	FRIEDRICH NEMA 6-15

1. CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, ETC. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS PRIOR TO BEGINNING WORK.
2. ALL ROOF MOUNTED EQUIPMENT AND PENETRATIONS SHALL BE FLASHED A MINIMUM OF 1/2" ABOVE THE ROOF VIA ROOF CURBS AND PIPE SEALS. PROVIDE AMPLE SUPPLY OF PIPE SEALS FOR ELECTRICAL PENETRATIONS.
3. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FAN OR PLUMBING VENT.
4. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES ALL CONDENSERS, REFRIGERANT LINES, AND OTHER ITEMS FURNISHED BY OTHERS AS WELL AS THOSE FURNISHED BY HIM.
5. RUN SCH. 40 PVC CONDENSATE LINES ALONG THE PIPE SUPPORT SYSTEM ON THE ROOF FOR THE RTUs. LINES SHALL BE PAINTED.
6. PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MACHINERY.
7. THE CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
8. THIS CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES FOR ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
9. COORDINATE CEILING AIR DEVICE LOCATION WITH LIGHTING PLAN.

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DATE: 07-26-2012

JOB No: 2148

REVISIONS	
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MECHANICAL PLAN

SHEET No: 4 OF 9

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