



**PVMS TOILET ROOM ALTERATIONS**

CAPITAL PROJECTS PHASE 2

142 PEEKSKILL HOLLOW RD  
PUTNAM VALLEY, NY 10579



**KG+D . ARCHITECTS PC**  
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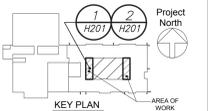
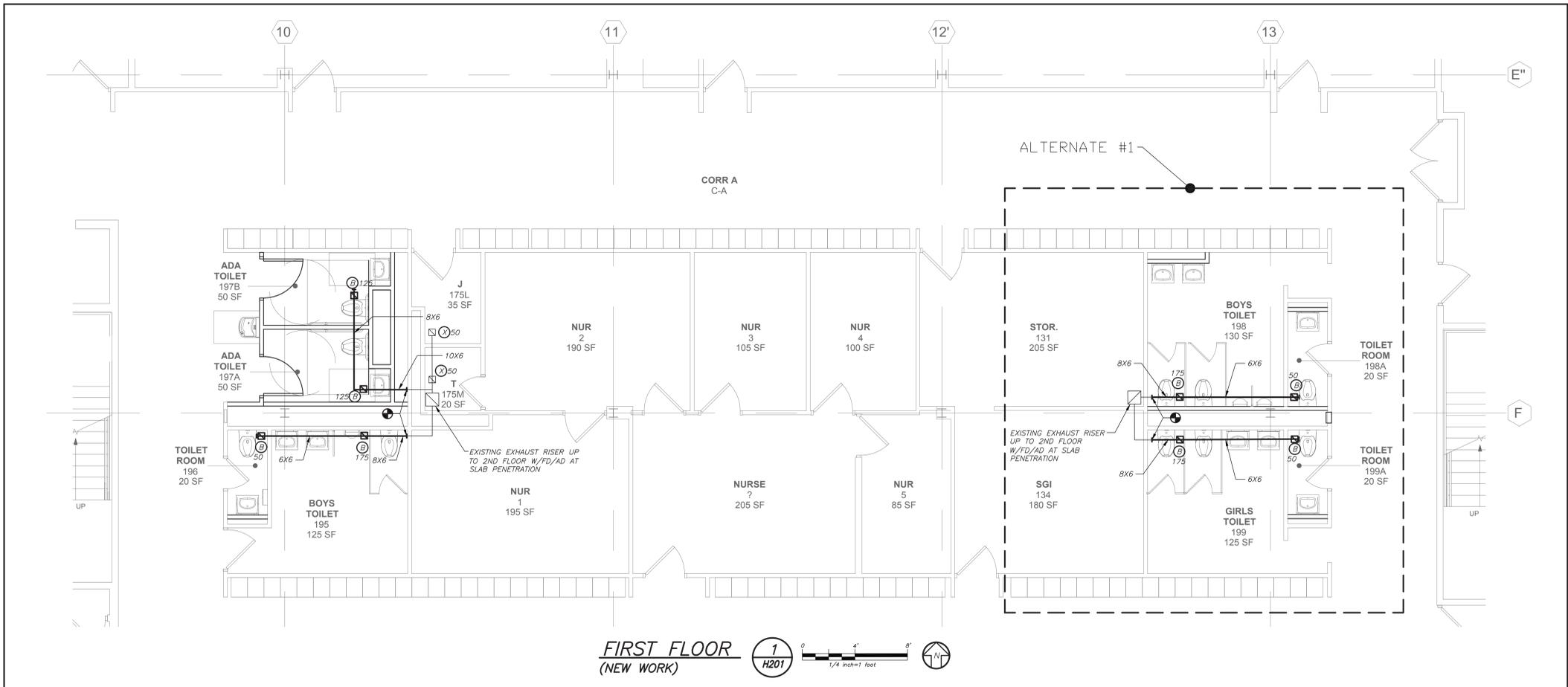
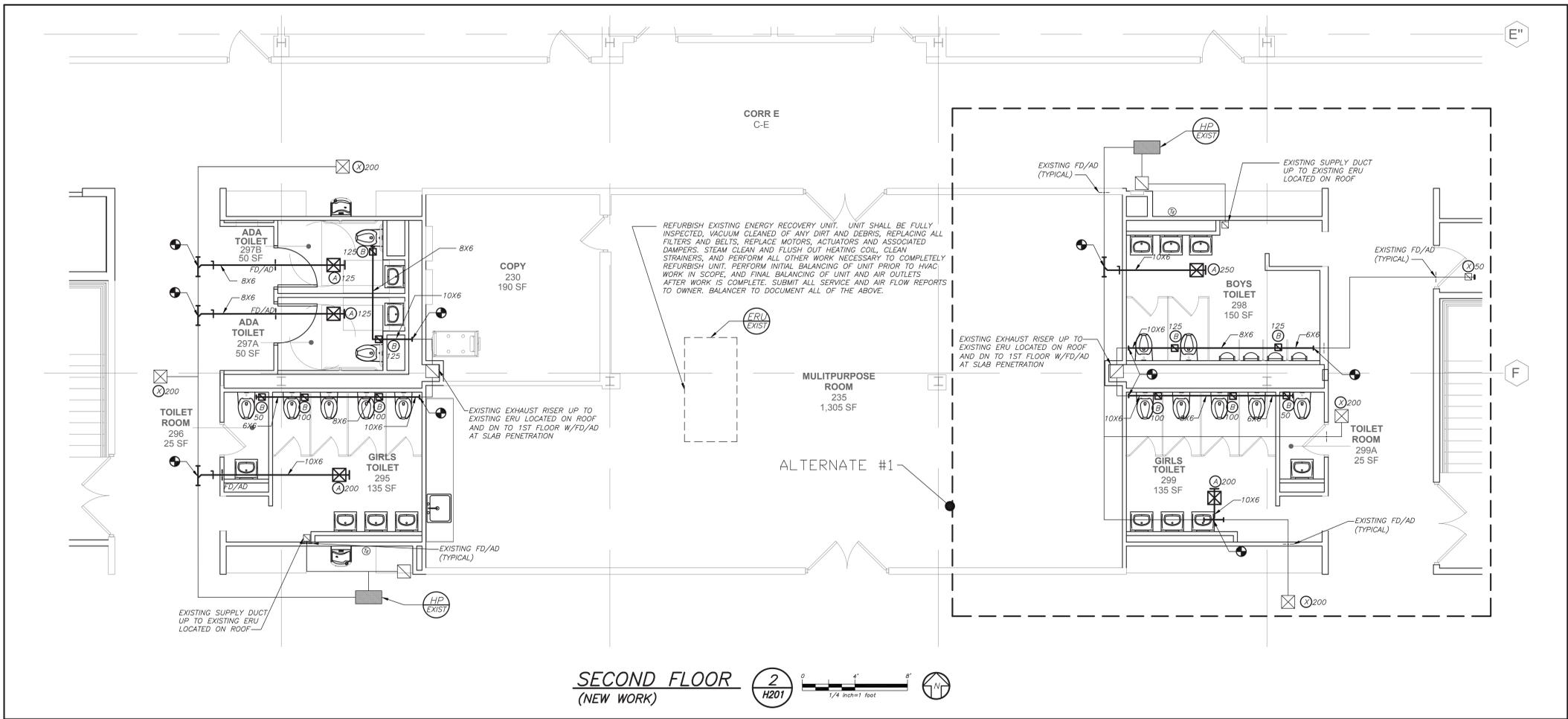
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NY SED PROJECT CONTROL NO.

48-05-03-04-0-004-016

**CONSTRUCTION DOCUMENTS**



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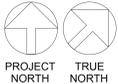
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3	03/15/21	CONSTRUCTION DOCUMENTS
1	02/01/21	SED SUBMISSION
No.	Date	Issue

**FIRST AND SECOND FLOOR PLANS**

Job No.	2020-1051	Date	01/14/2021
Scale	AS NOTED	Drawn / Checked	BGA/BGA
Sheet Number	<b>H201</b>		



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### SCHEDULE OF EXISTING WATER SOURCE HEAT PUMP UNITS

MARK	MODEL No. ①	TYPE	LOCATION	SUPPLY CFM	O.A. CFM	EXT. S.P.	WATER GPM	COOLING ②		HEATING ③		ELECTRICAL DATA			REMARKS
								TOTAL CAP. (MBH)	SENSIBLE (MBH)	TOTAL CAP. (MBH)	HEATING (MBH)	MCA	MCCP	ELECTRIC SERVICE	
(H/195)	-	HORIZONTAL	CEILING	850	350	0.4	4.5	24.8	18.3	20.0	13.0	20	208/1/60	③	

**NOTES**

- AS MANUFACTURED BY "WATER FURNACE".
- SCHEDULED EER'S AND COP'S ARE AT THE CONDITIONS INDICATED (I.E. 80°F EWT SUMMER AND 30°F EWT WINTER).
- PERFORMANCE BASED ON 20% ENVRONOL 200 GLYCOL SOURCE FLUID.

### SCHEDULE OF EXISTING ENERGY RECOVERY UNITS

GENERAL DATA				SUPPLY FAN DATA			RETURN-EXHAUST FAN			ELECTRICAL DATA		REMARKS	
MARK	SERVICE	LOCATION	OUTSIDE AIR CFM	MODEL No. ①	CFM	EXT. S.P. IN WG	MOTOR HP	CFM MIN/MAX	EXT. S.P. IN WG	MOTOR HP	MCA		ELECTRIC SERVICE
(H/195)	TOILETS/CORRIDORS	ROOF	2000	-	2000	0.4	1.5	2000	0.4	1.5	23	208/1/60	③④

**NOTES**

- AS MANUFACTURED BY "VENMAR"
- DESIGN AIR CONDITIONS: SUMMER OA (85°F/75°F) RA (75°F/63°F)
- BASED ON A.R.I. CERTIFIED COIL SELECTIONS.
- BASED ON HOT WATER SUPPLY TEMPERATURE OF 160°F AND RETURN TEMPERATURE OF 140°F.

### SCHEDULE OF REGISTERS AND DIFFUSERS

MARK	TYPE	SERVICE	MODEL No. ①	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	REMARKS
(A)	CEILING DIFFUSER	SUPPLY	EPL/E-1	4-WAY	OPPOSED BLADE	PER ARCH.	REFER TO ②③④⑤
(B)	CEILING REGISTER	RETURN	30/S/45	-	-	-	REFER TO ②③④⑤⑦
(X)	EXISTING OUTLET	-	-	-	-	-	-

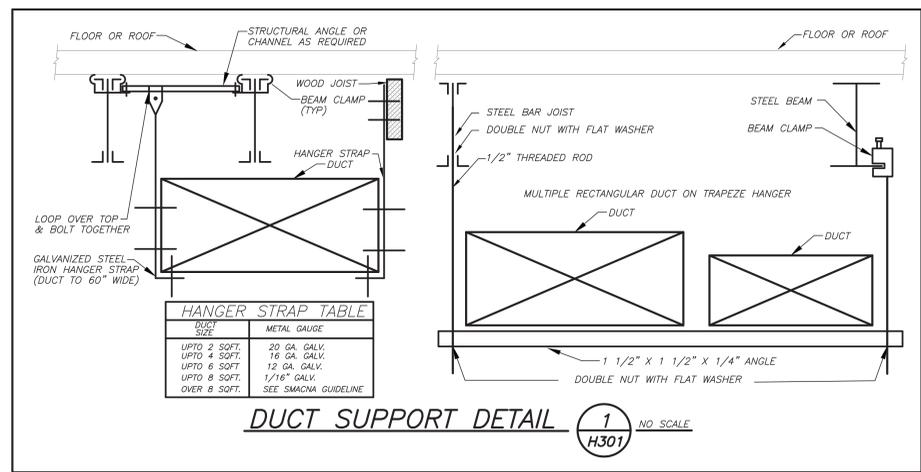
**NOTES**

- AS MANUFACTURED BY "ANEMOSTAT."
- INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- 45 DEGREES DEFLECTION TOWARD WALL/FLOOR.
- PROVIDE CABLE OPERATED DAMPER WHERE NOT ACCESSIBLE.
- PROVIDE BLANK-OFF BAFFLES, VOLUME DAMPER, EQUALIZING GRID AND MOLDED INSULATION BLANKET.

SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 500 fpm)		RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)	
50 TO 100	3/8"	50 TO 100	3/8"
100 TO 300	1/2"	100 TO 300	1/2"
300 TO 500	5/8"	300 TO 500	5/8"
500 TO 800	1"	500 TO 800	1"
800 TO 1200	1 1/8"	800 TO 1200	1 1/8"
1200 TO 1500	1 1/4"	1200 TO 1500	1 1/4"
1500 TO 2000	1 3/8"	1500 TO 2000	1 3/8"
2000 TO 2500	1 1/2"	2000 TO 2500	1 1/2"
2500 TO 3000	1 5/8"	2500 TO 3000	1 5/8"
3000 TO 4000	1 3/4"	3000 TO 4000	1 3/4"
4000 TO 6000	1 7/8"	4000 TO 6000	1 7/8"
6000 TO 8000	2"	6000 TO 8000	2"
8000 TO 11000	2 1/8"	8000 TO 11000	2 1/8"
11000 TO 12000	2 1/4"	11000 TO 12000	2 1/4"
12000 TO 24000	2 3/4"	12000 TO 24000	2 3/4"

### SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES - Middle School - First Floor

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (HP/1000 SQ.FT.)	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A*B)+1000#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F*C)+(A*D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G*H=CFM	J MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
Boys Toilet195	BATHROOM	125	-	-	-	-	-	-	-	-	150
Toilet196	BATHROOM	20	-	-	-	-	-	-	-	-	50
ADA Toilet197A	BATHROOM	50	-	-	-	-	-	-	-	-	100
ADA Toilet197B	BATHROOM	50	-	-	-	-	-	-	-	-	100
Boys Toilet198	BATHROOM	130	-	-	-	-	-	-	-	-	150
Toilet198A	BATHROOM	20	-	-	-	-	-	-	-	-	50
Toilet198B	BATHROOM	20	-	-	-	-	-	-	-	-	50
Girls Toilet199	BATHROOM	125	-	-	-	-	-	-	-	-	150
Toilet199A	BATHROOM	20	-	-	-	-	-	-	-	-	50
Girls Toilet295	BATHROOM	135	-	-	-	-	-	-	-	-	150
Toilet296	BATHROOM	20	-	-	-	-	-	-	-	-	50
ADA Toilet297A	BATHROOM	50	-	-	-	-	-	-	-	-	100
ADA Toilet297B	BATHROOM	50	-	-	-	-	-	-	-	-	100
Boys Toilet298	BATHROOM	150	-	-	-	-	-	-	-	-	200
Girls Toilet299	BATHROOM	135	-	-	-	-	-	-	-	-	150
Toilet299A	BATHROOM	20	-	-	-	-	-	-	-	-	50



**PVMS TOILET ROOM ALTERATIONS**

CAPITAL PROJECTS PHASE 2

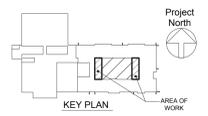
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**SCHEDULES AND DETAILS**

Job No.	Date
2020-1051	01/14/2021

Scale	Drawn / Checked
AS NOTED	BGA/BGA

Sheet Number  
**H301**

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