

BUILDING STRUCTURE FIREPROOFING:

THE BUILDING STRUCTURE WILL BE PROTECTED BY 2" FIREPROOFING THROUGHOUT. THIS CONTRACTOR SHALL ISSUE COORDINATION DRAWINGS ACCORDING TO THE STRICT SCHEDULE OUTLINED IN THE "FRONT END" DOCUMENTS. ALL HANGERS FOR PIPING, CONDUIT, DUCTWORK, EQUIPMENT, ETC. MUST BE IN PLACE BEFORE FIREPROOFING TAKES PLACE. THE INSTALLATION OF HANGERS AFTER THE FACT THAT REQUIRES THE RE-APPLICATION OF FIREPROOFING WILL BE AT THE EXPENSE OF THIS CONTRACTOR.

GENERAL NOTES:

VRF AND DUCTLESS SPLIT SYSTEMS:

THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

CONDENSATE PIPING:

PROVIDE CONDENSATE PIPING FOR ALL INDOOR FAN COIL EVAPORATOR UNITS AND AIR HANDLER CONDENSATE PANS. RUN CONDENSATE TO NEAREST FLOOR DRAIN OR JANITOR'S SINK. PROVIDE CONDENSATE PUMPS WHERE GRAVITY DRAINAGE IS NOT POSSIBLE, FOR COMPLETE AND OPERABLE SYSTEMS.

PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.

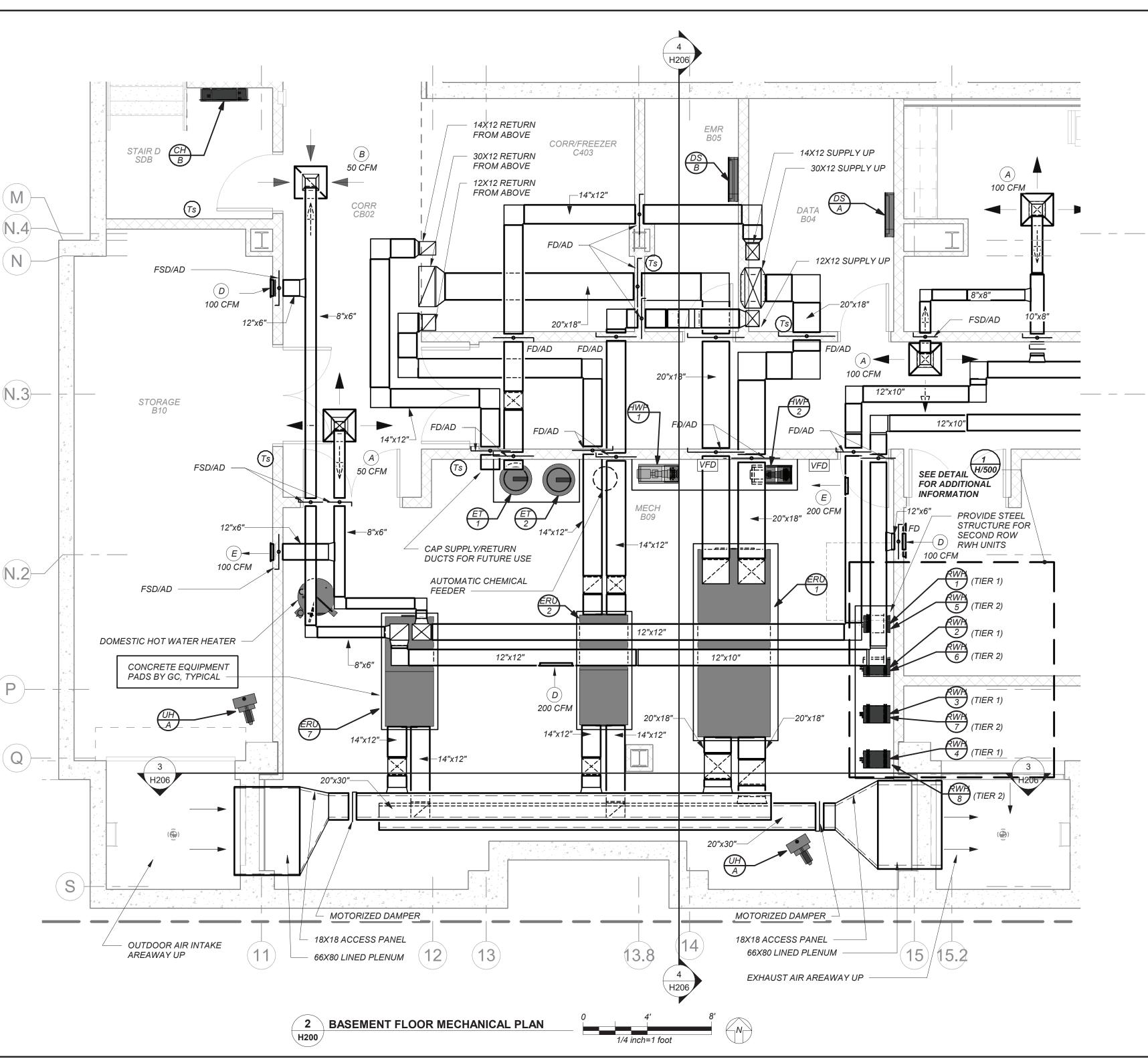
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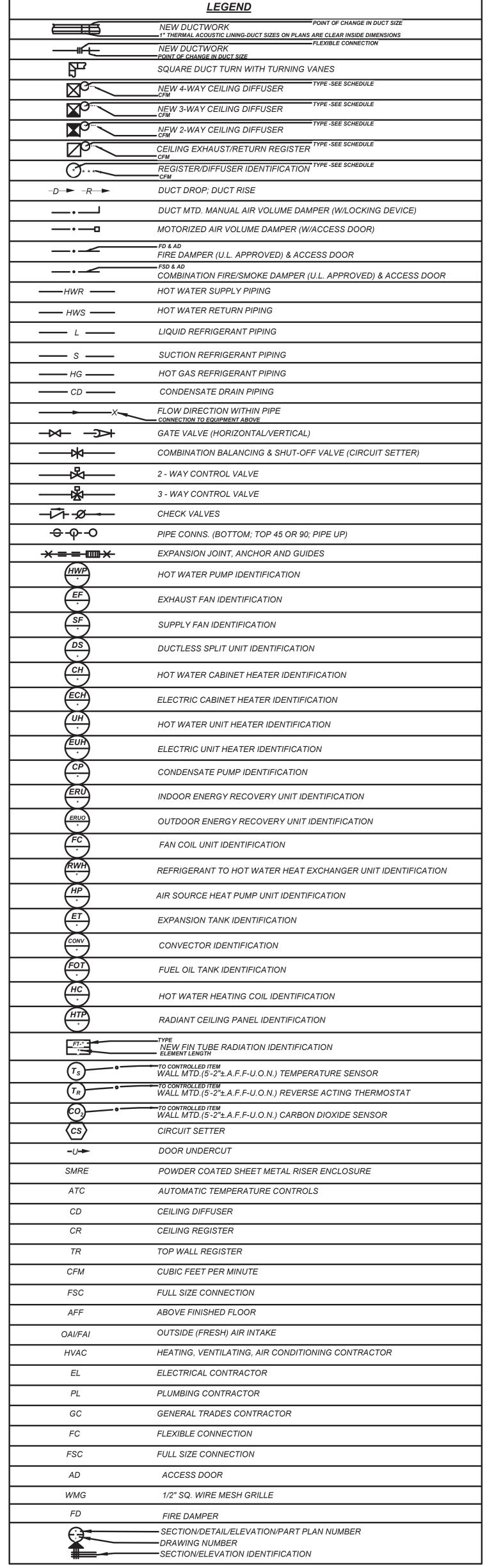
EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINSTE WITH OWNER ON DESIRED FINAL TAG NUMBERS/LETTERS. THOSE DESIGNATIONS SHALL BE USED IN ALL BMS PROGRAMMING AND ON PERMANENT EQUIPMENT TAGS. ASBUILT DRAWINGS SHALL BE UPDATED WITH FINAL DESIGNATIONS.

DUCTWORK LINER:

WHERE NOTED.

ALL SUPPLY/RETURN/EXHAUST DUCTWORK SHALL BE LINED WITHIN 20 FT. OF AIR HANDLERS. EXHAUST DUCTWORK WITHIN 10 FT. OF EXTERIOR SHALL BE LINED. SEE SPECIFICATIONS. PROVIDE ADDITIONAL LINER





NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD

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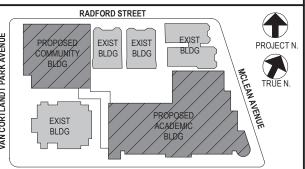
CONSTRUCTION DOCUMENTS



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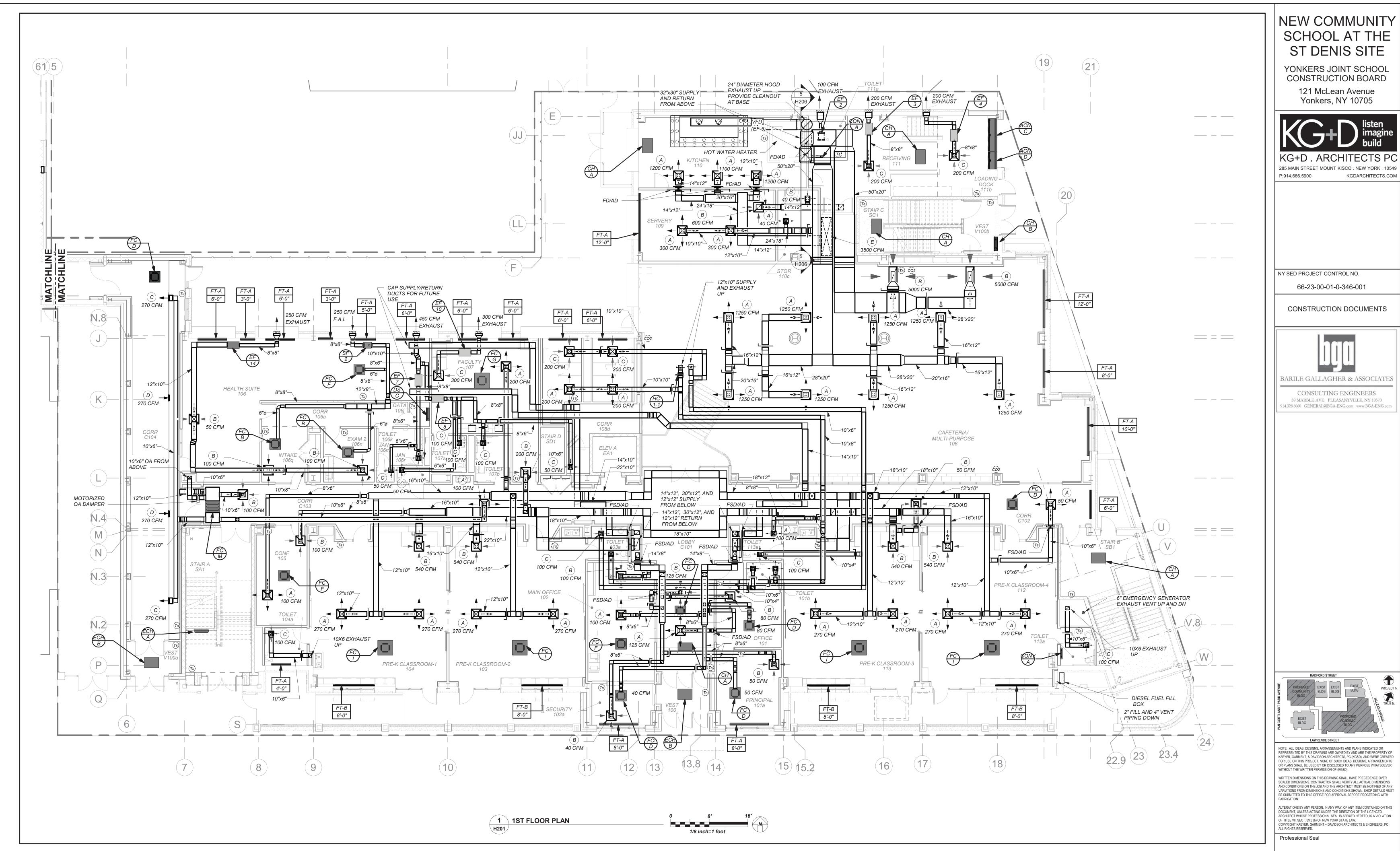
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Sheet Title

4 11/01/2021 ISSUED TO BID
3 07/14/2021 CONSTRUCTION DOCS-NYSED
2 12/15/2020 DESIGN DEVLOPMENT
1 08/31/2020 SCHEMATIC DESIGN
No. Date Issue

Legend, Basement Floor Plans, and Notes

H200



DUCTWORK LINER:

SEE SPECIFICATIONS.

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1st Floor Plan

H201

8/31/20

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2 12/15/2020 DESIGN DEVLOPMENT

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 SCHEMATIC DESIGN

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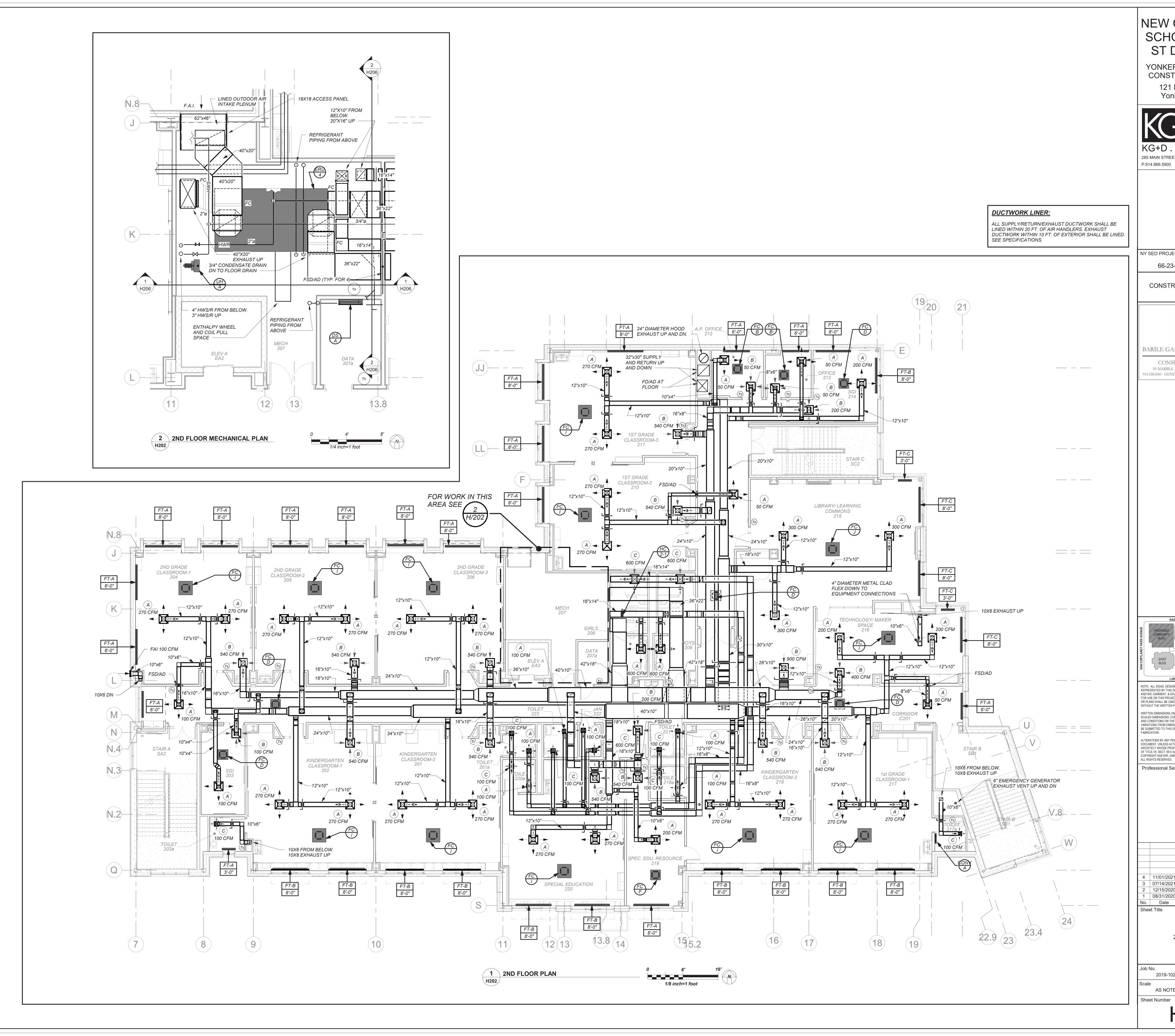
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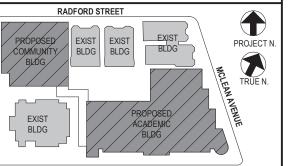
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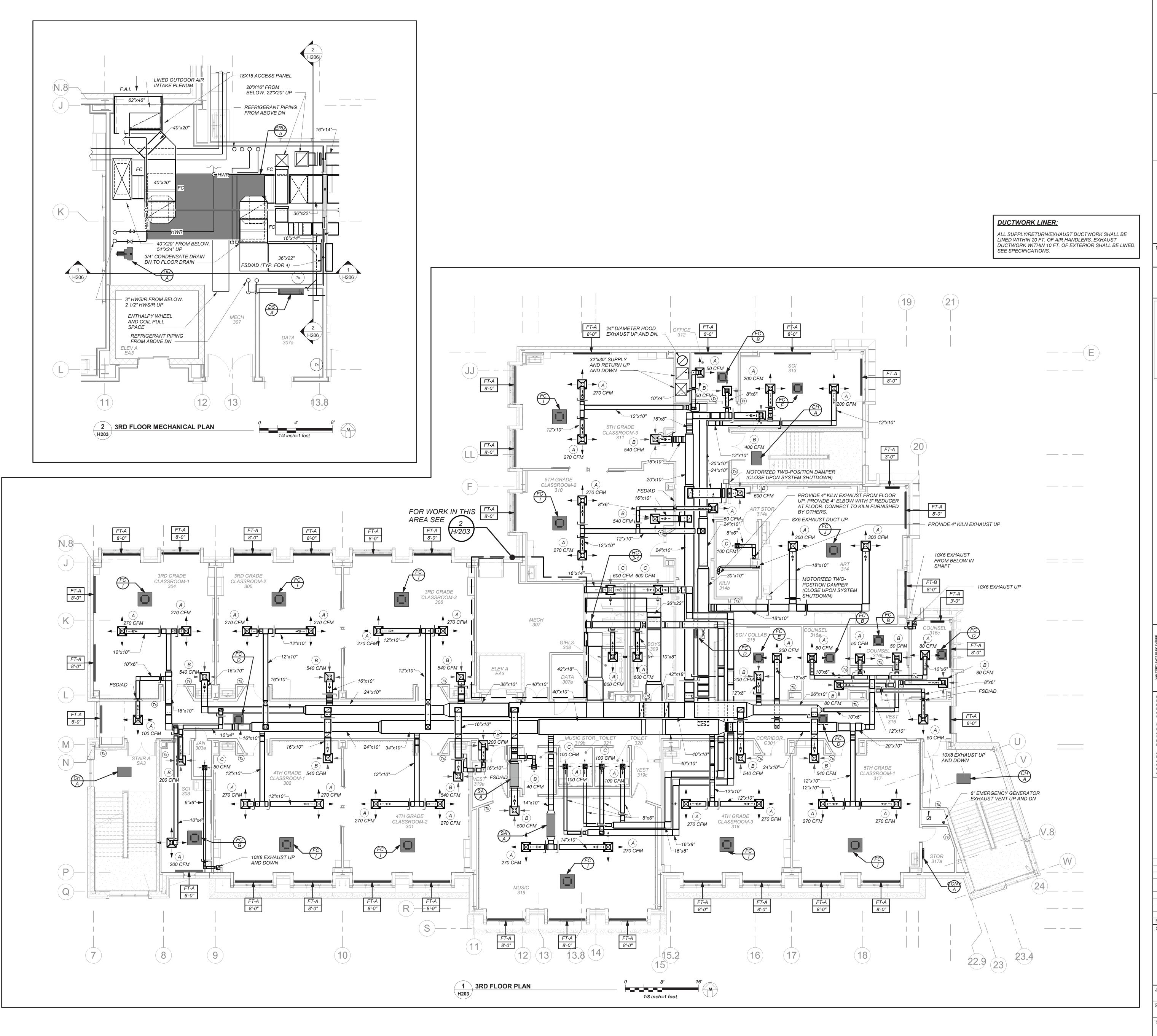
2nd Floor Plans

2019-1026

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H202

8/31/20



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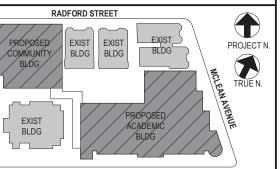
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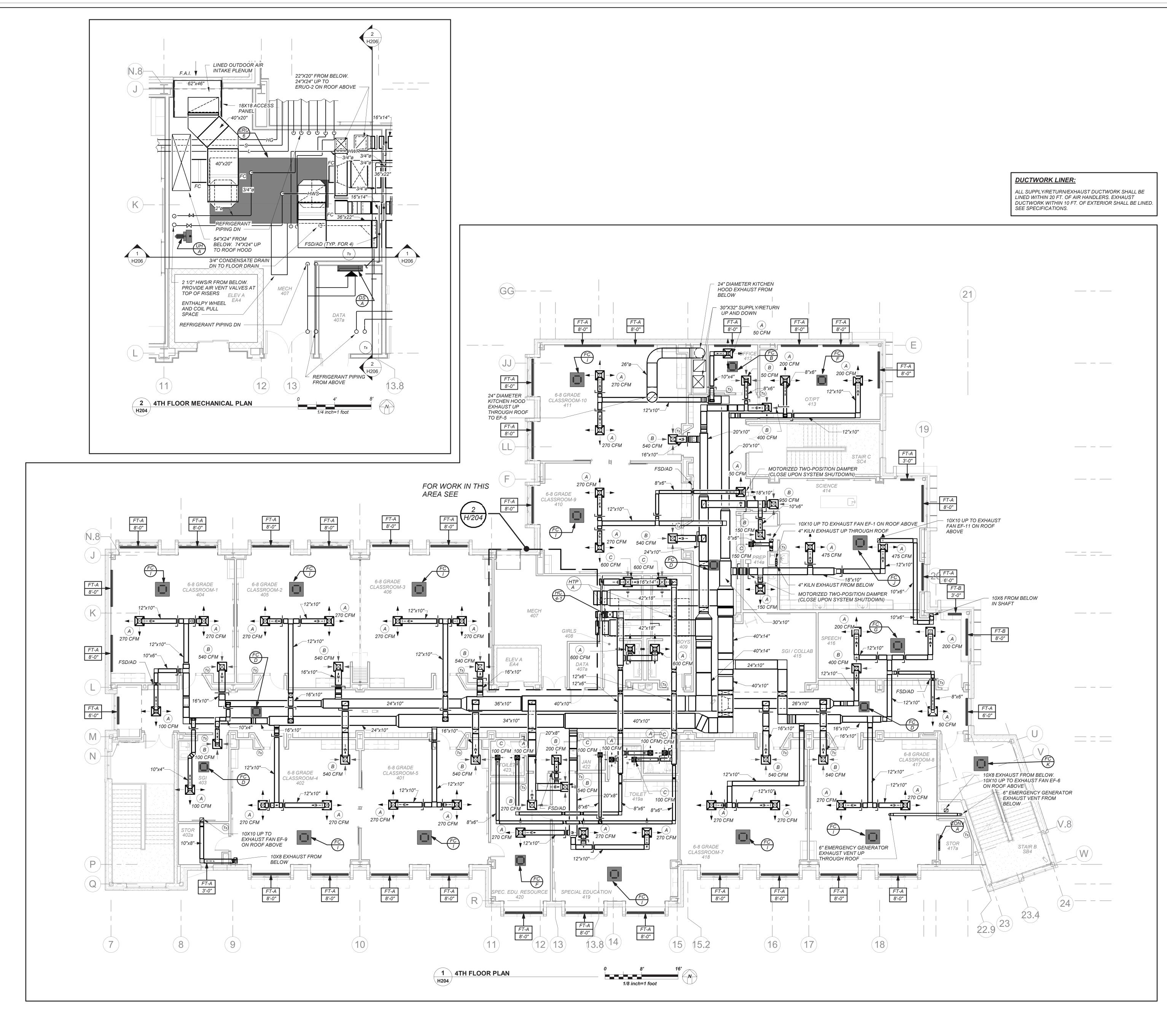
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3rd Floor Plans

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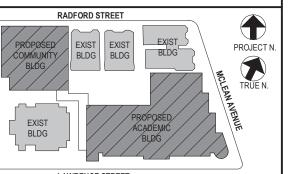
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4th Floor Plans

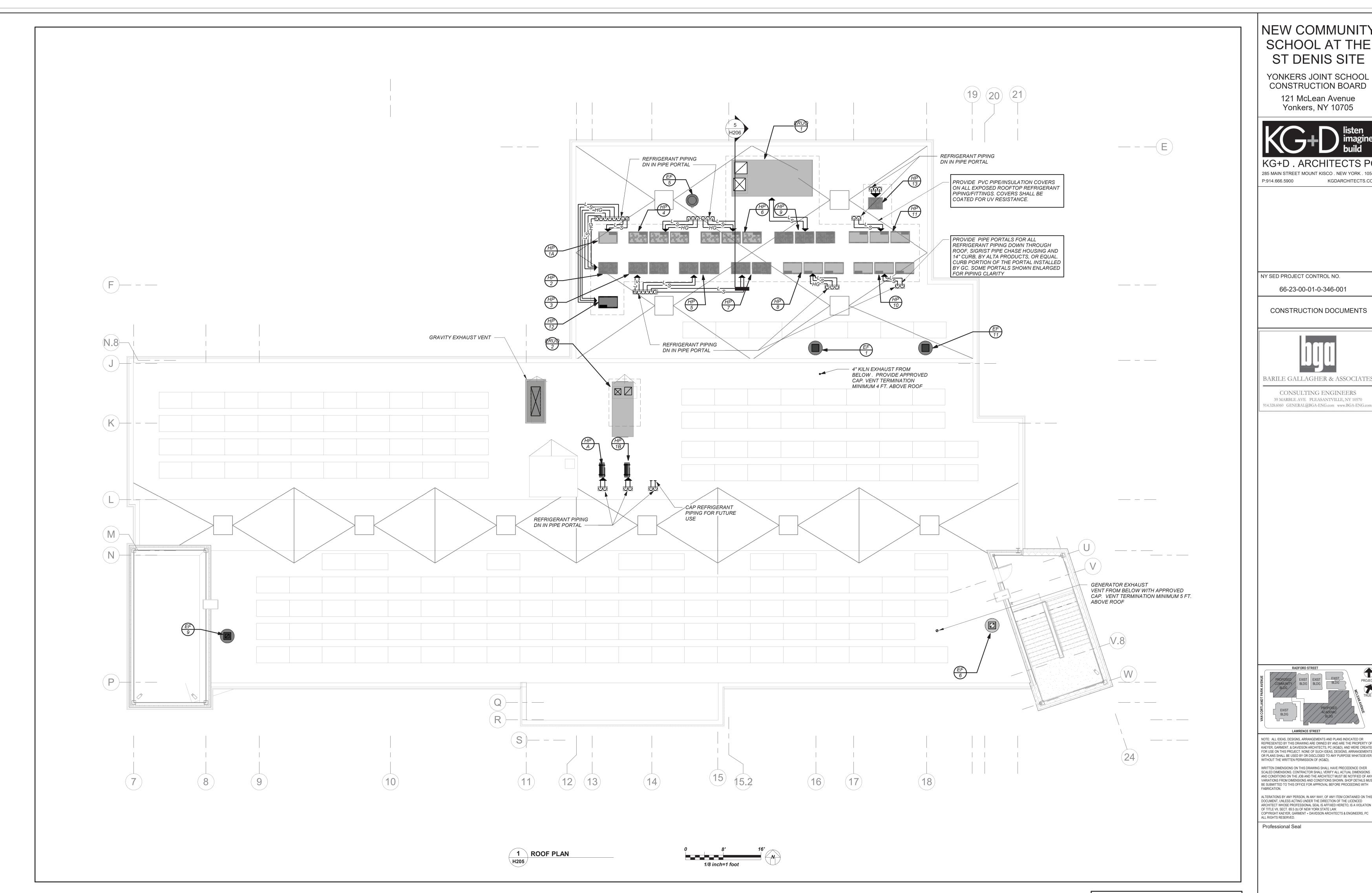
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H204

OF ALL OTHER CONTRACTORS

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON

JOB AND COORDINATE HIS WORK WITH THE WORK





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07/14/2021 CONSTRUCTION DOCS-NYSED

Roof Plan

H205

04/07/21

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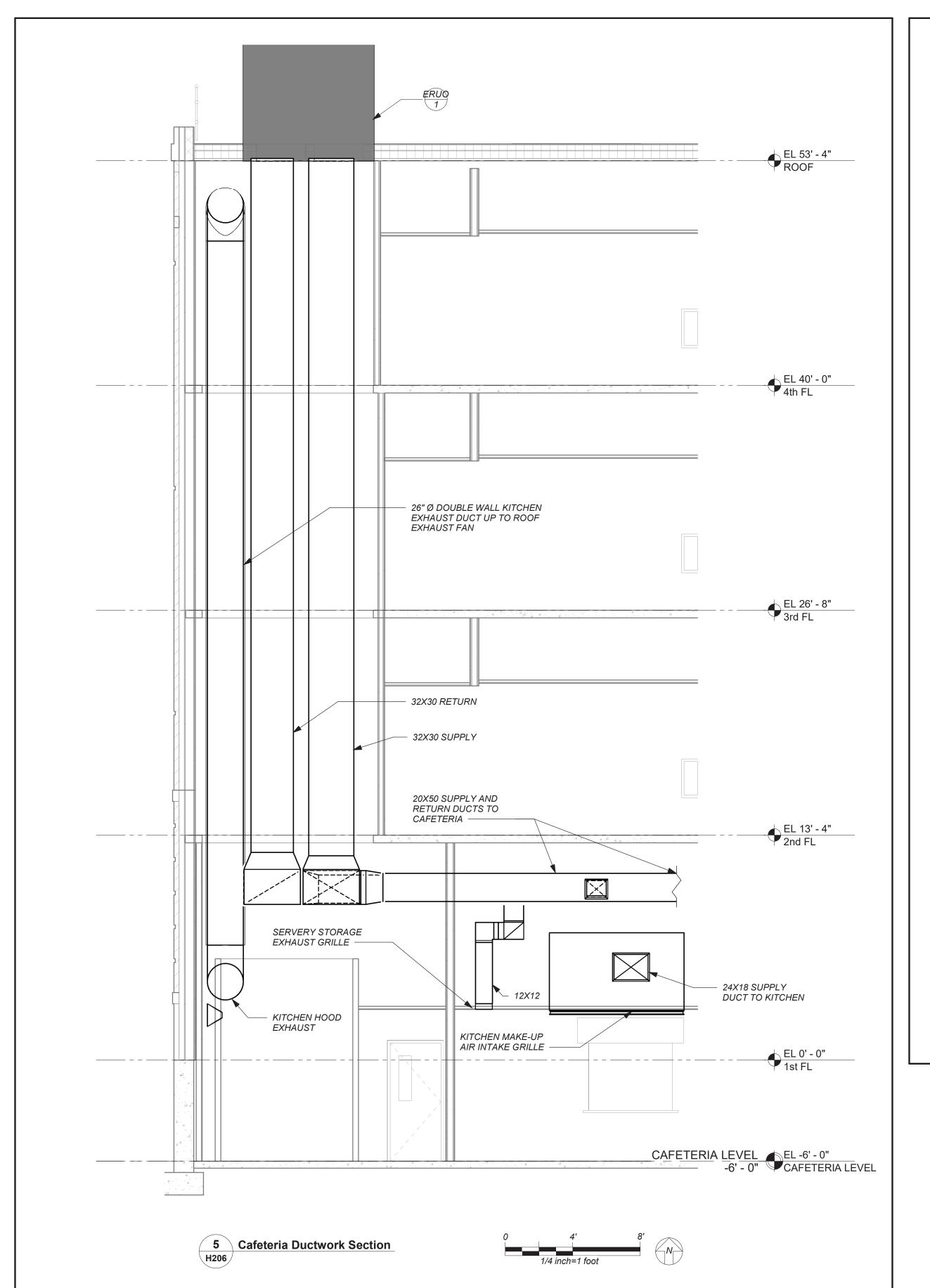
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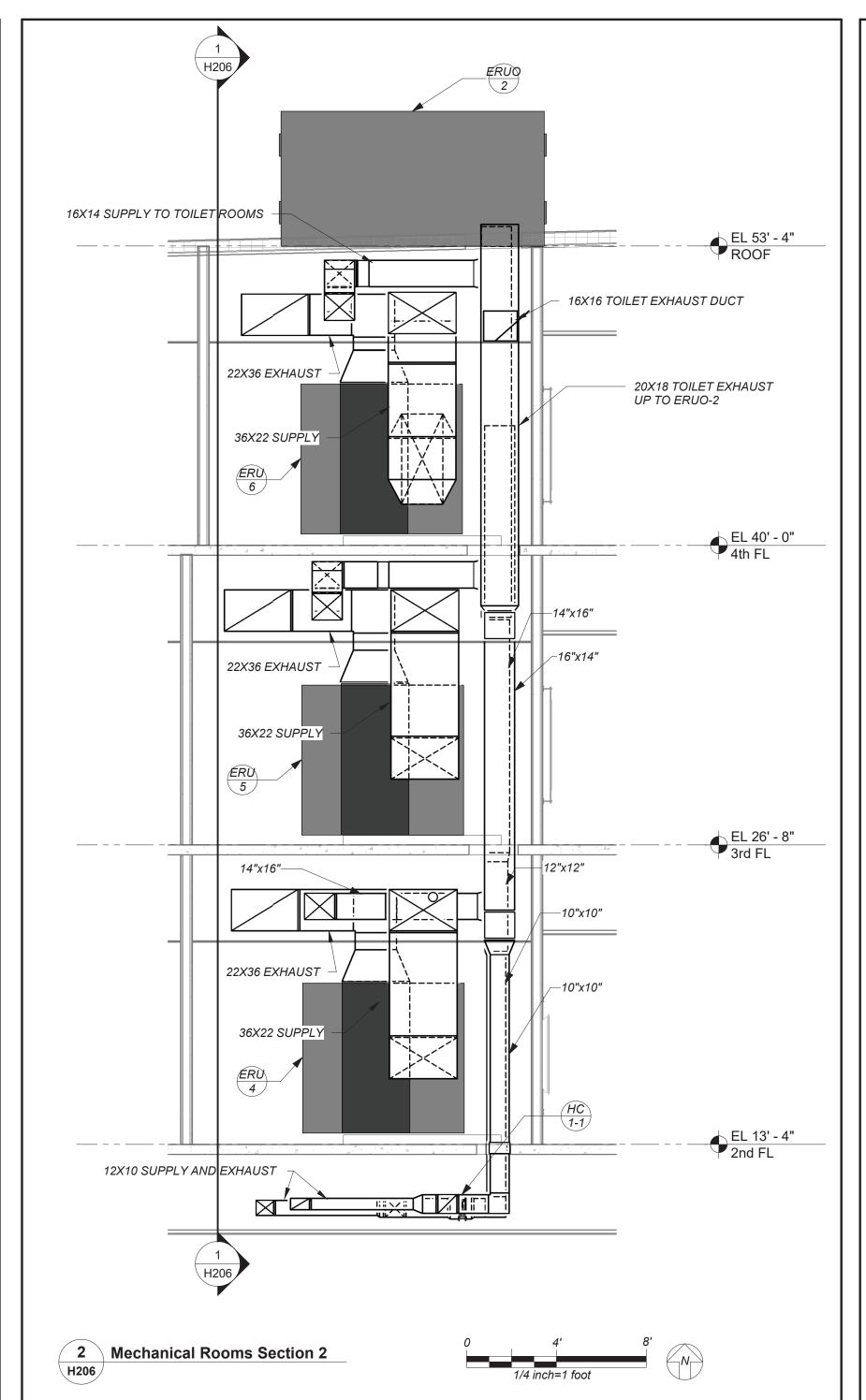
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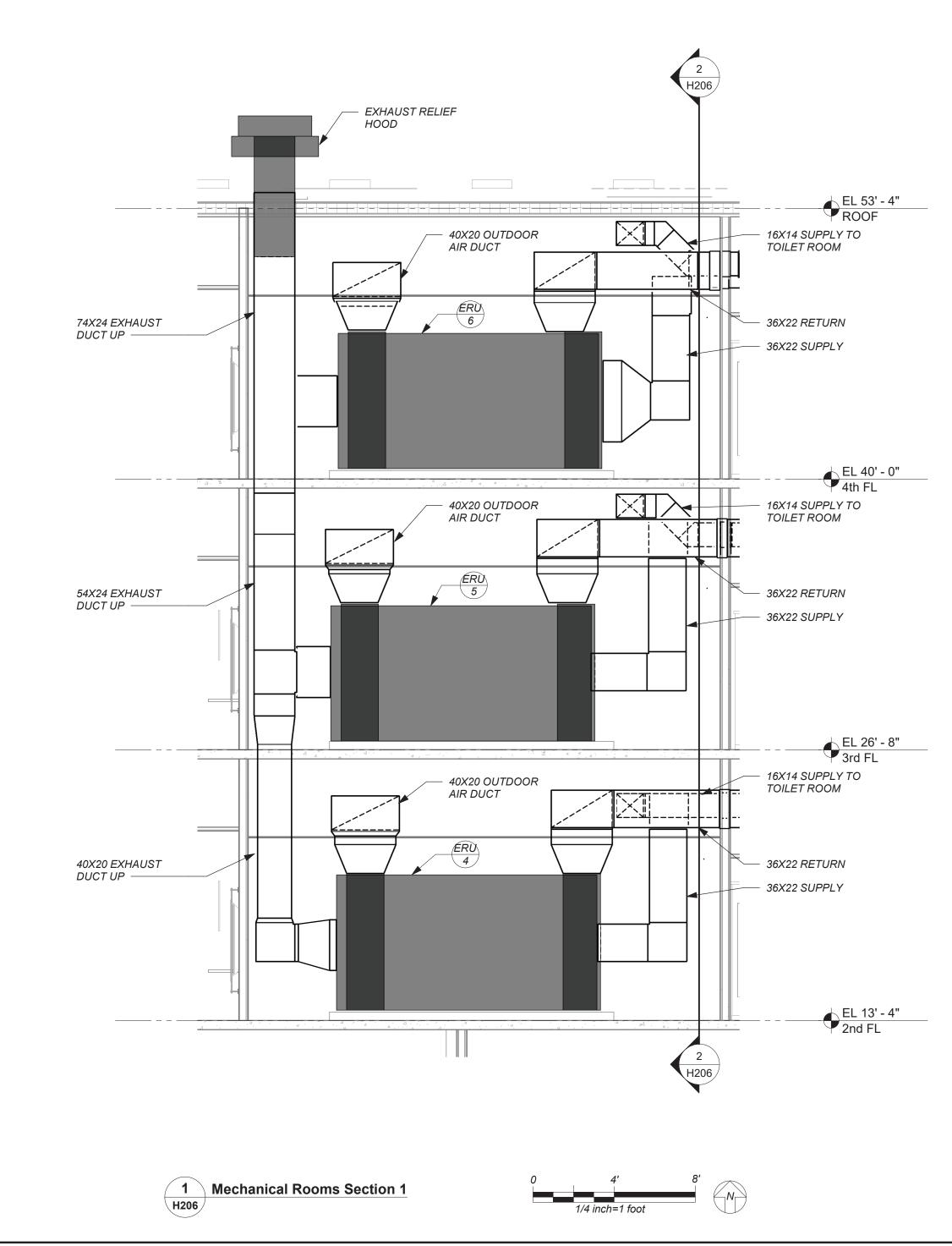
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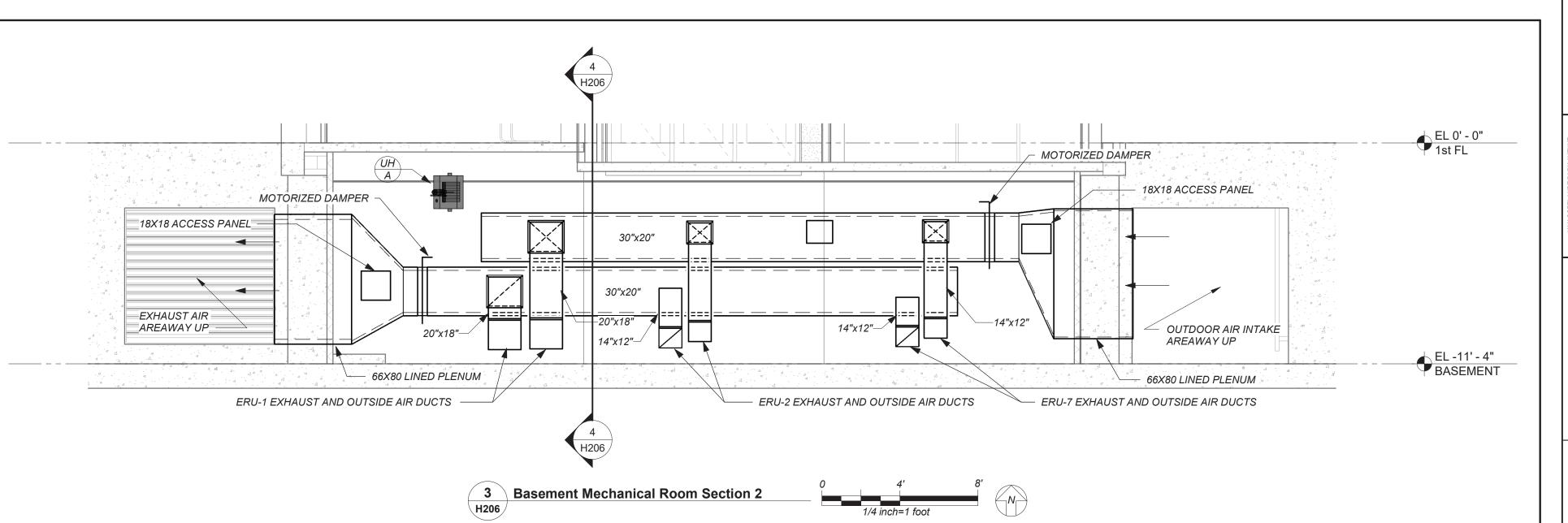
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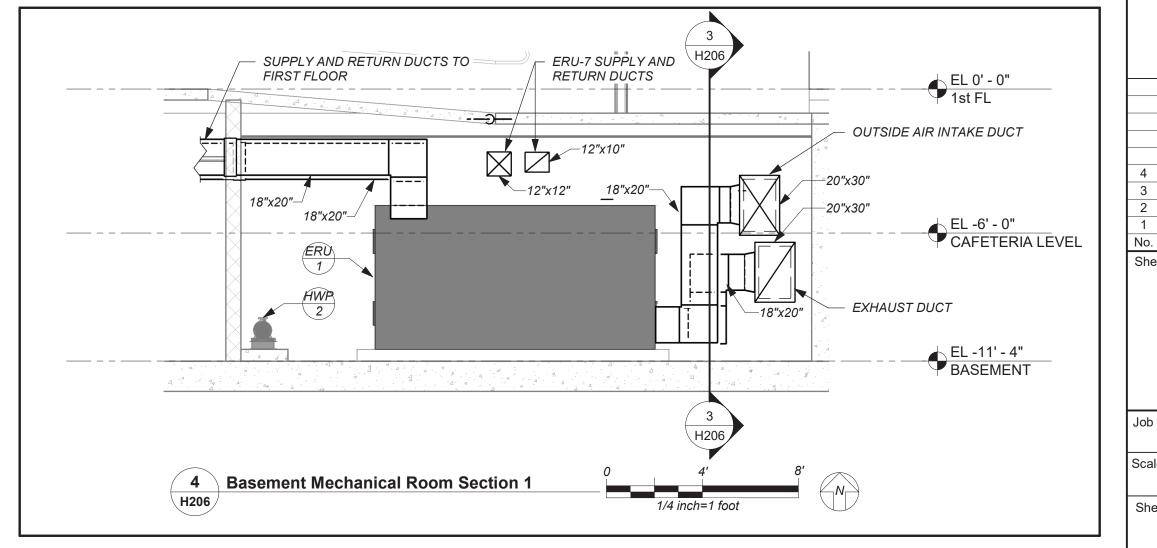
NEW COMMUNITY













ST DENIS SITE

YONKERS JOINT SCHOOL

CONSTRUCTION BOARD 121 McLean Avenue Yonkers, NY 10705



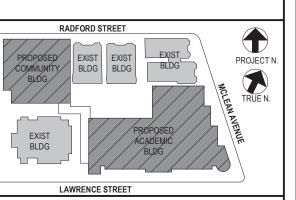
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Mechanical Sections

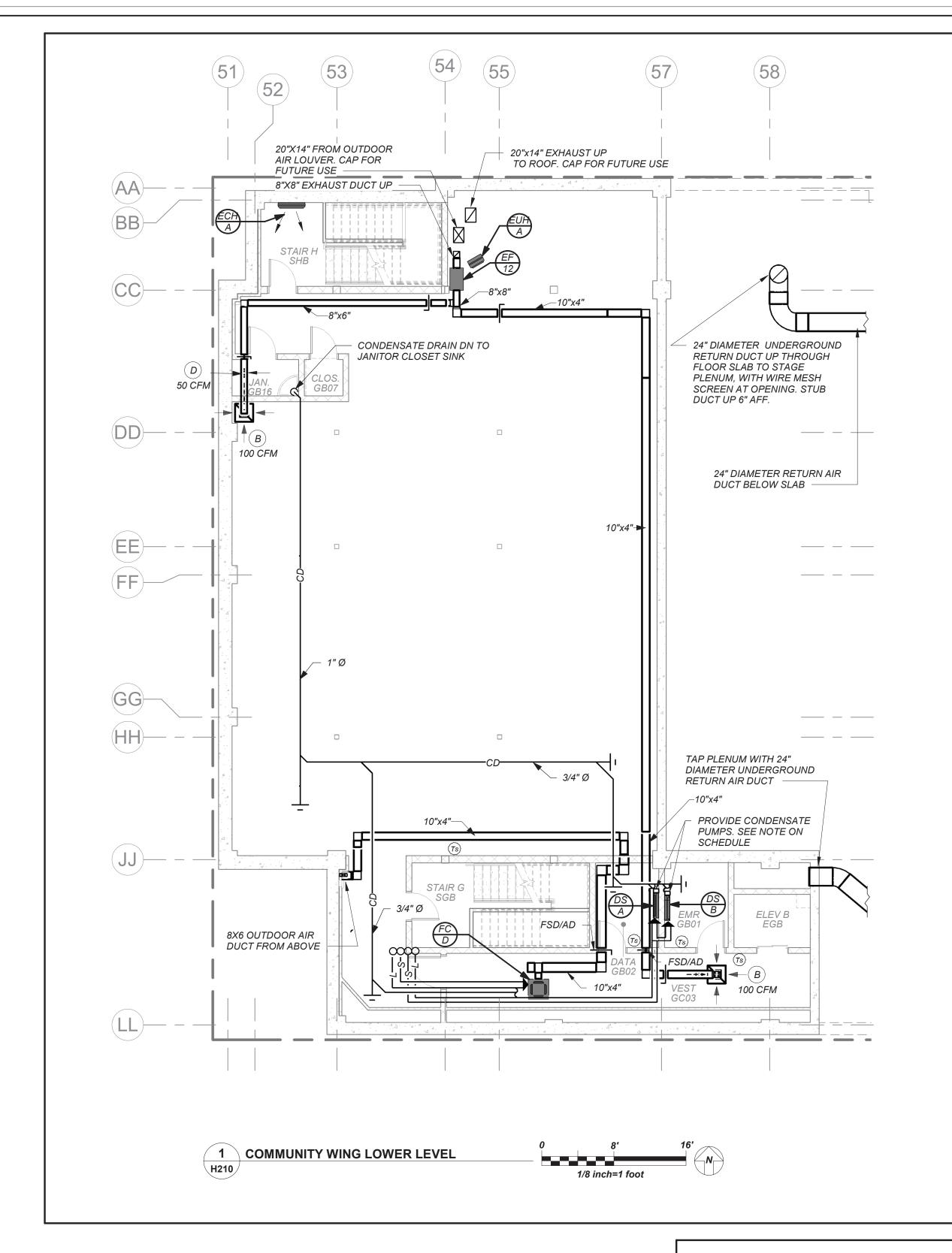
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H206

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

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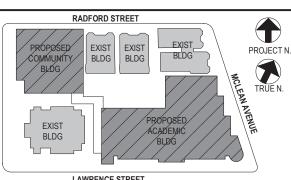
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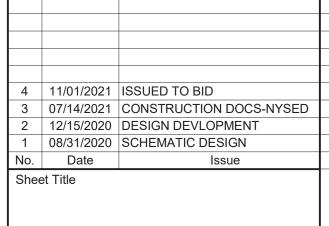
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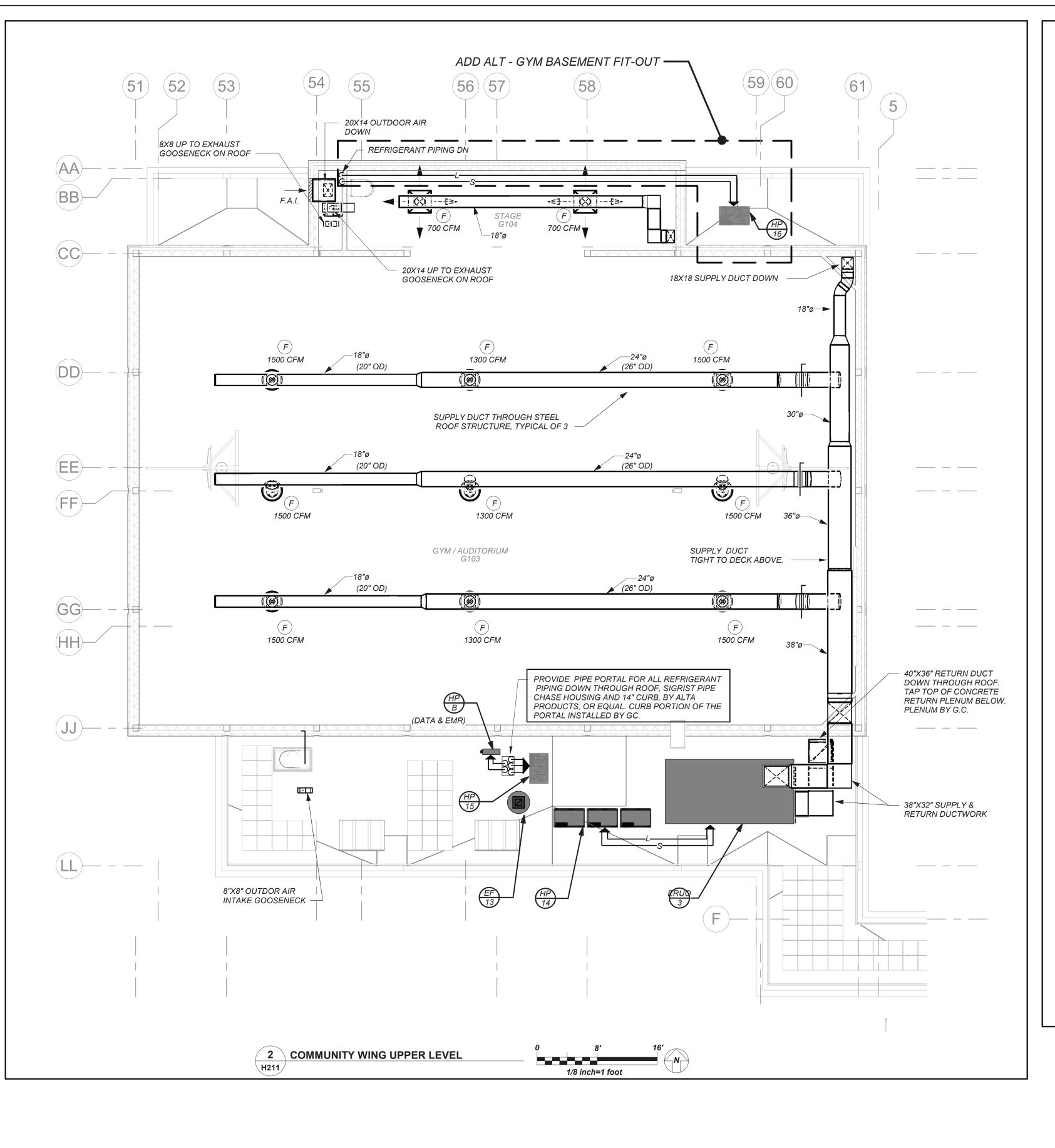
Community Wing Basement Floor Plan

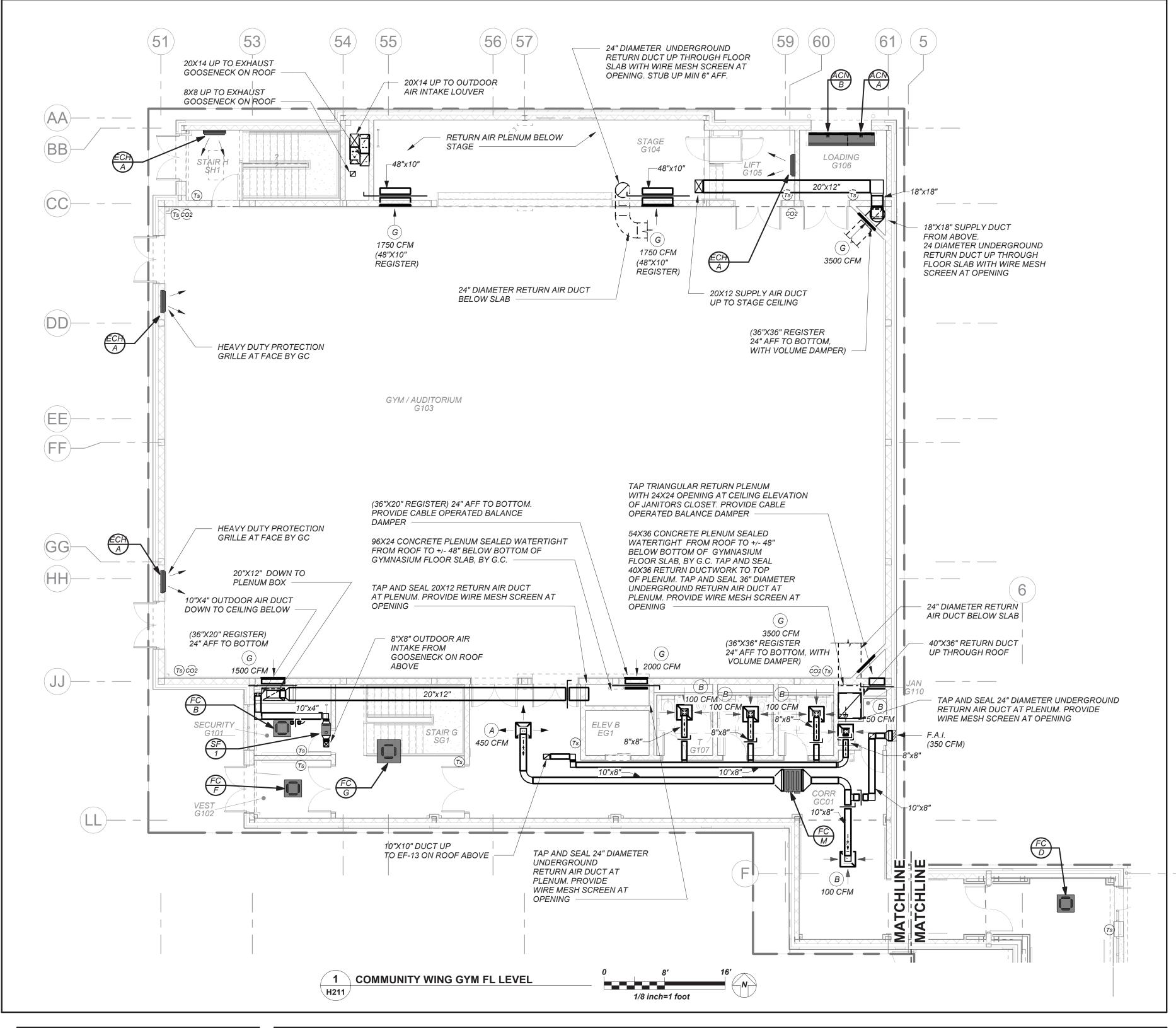
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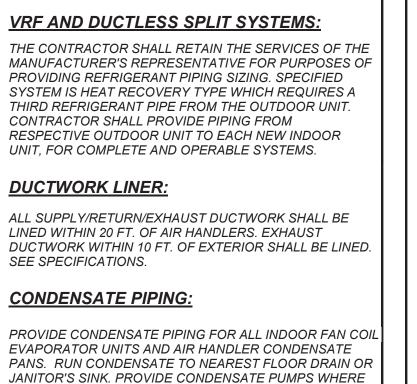
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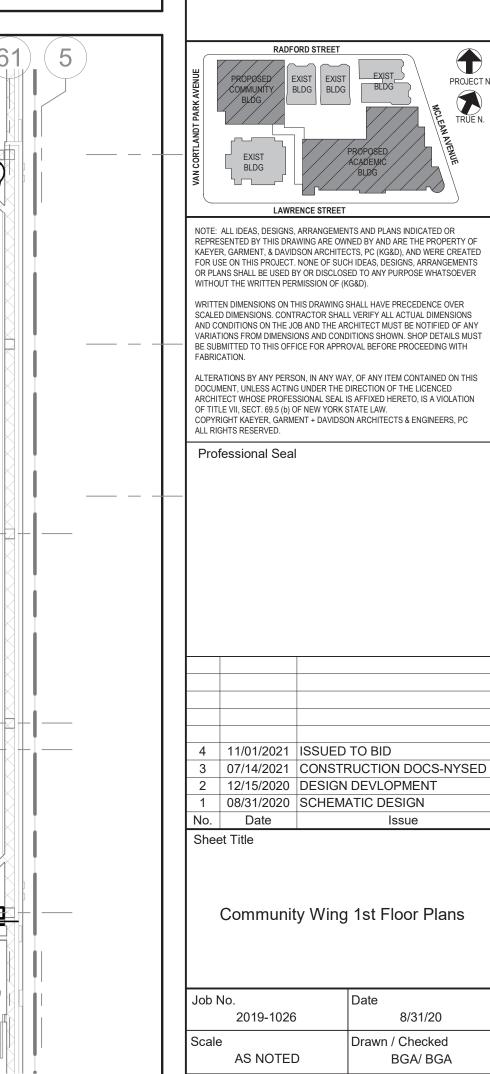
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PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR

HANDLERS FROM RESPECTIVE CONDENSATE PAN TO

AND OPERABLE SYSTEMS.

NEAREST ROOF DRAIN.



Sheet Number

H21′

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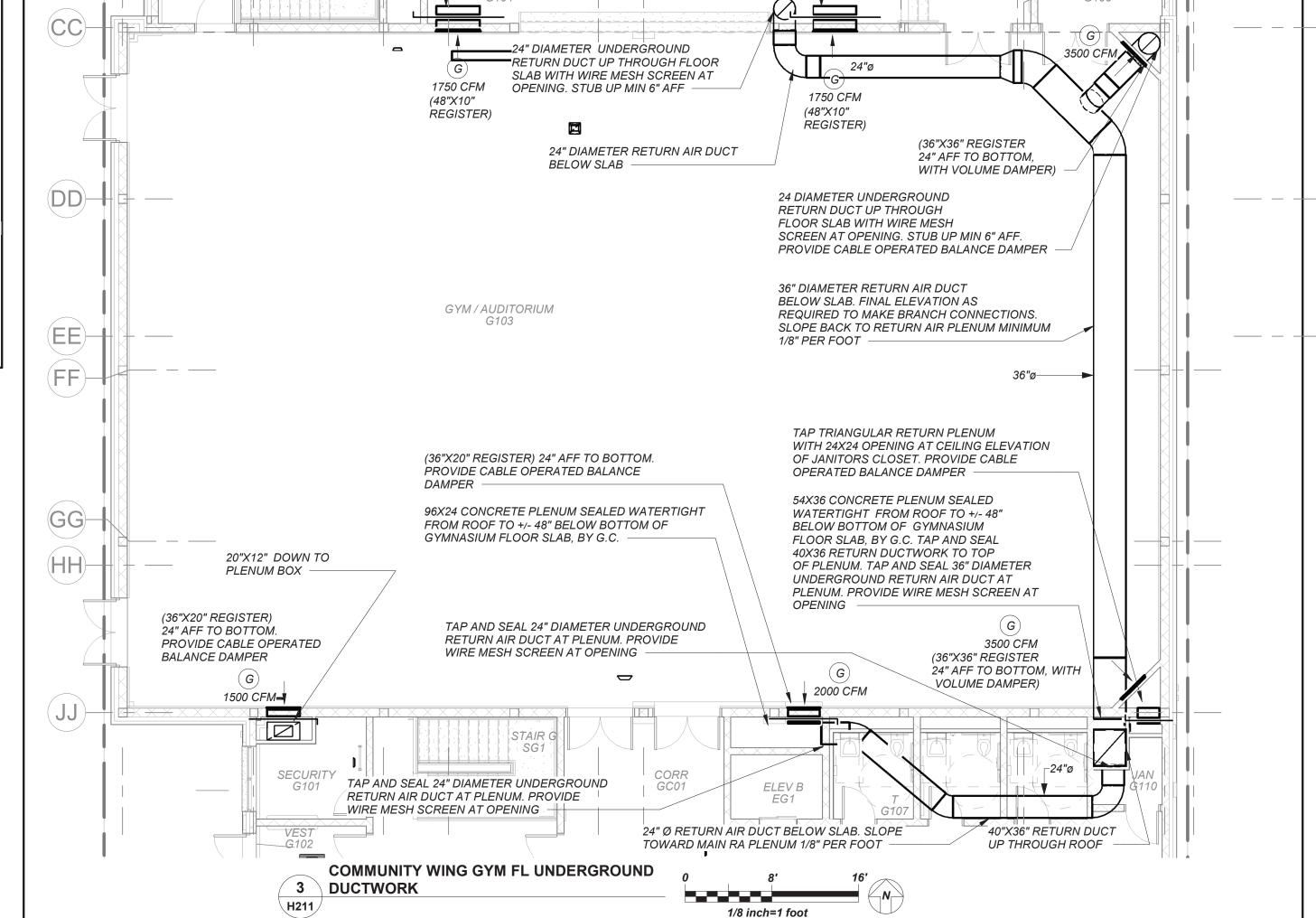
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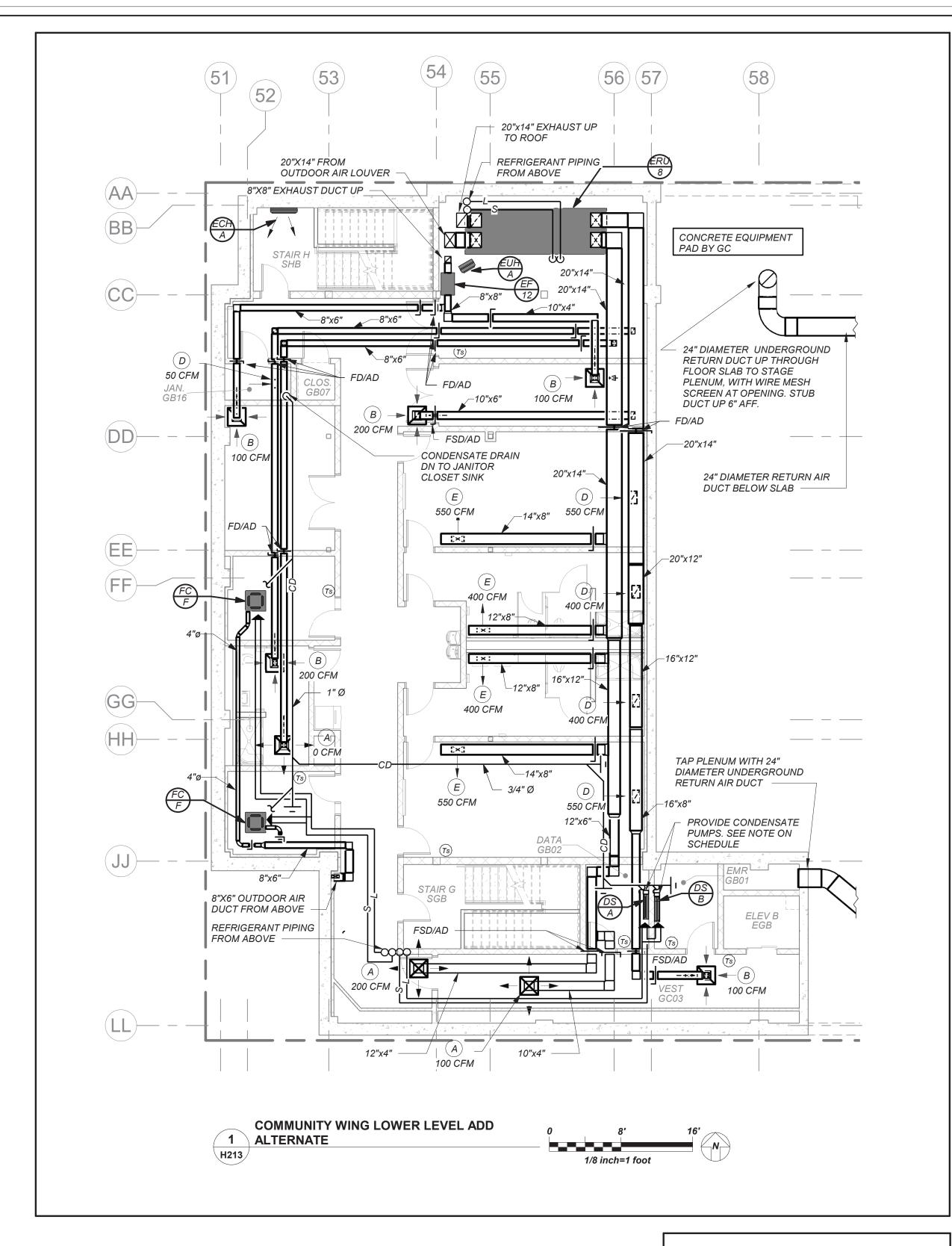
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RETURN AIR PLENUM BELOW

STAGE





THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

DUCTWORK LINER:

ALL SUPPLY/RETURN/EXHAUST DUCTWORK SHALL BE LINED WITHIN 20 FT. OF AIR HANDLERS. EXHAUST DUCTWORK WITHIN 10 FT. OF EXTERIOR SHALL BE LINED. SEE SPECIFICATIONS.

CONDENSATE PIPING:

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PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD

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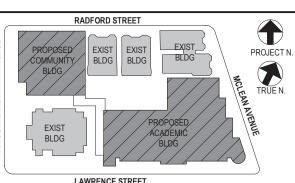
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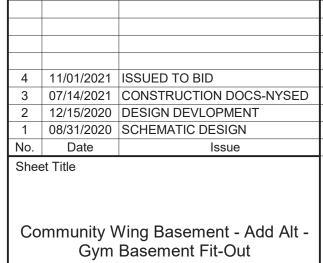
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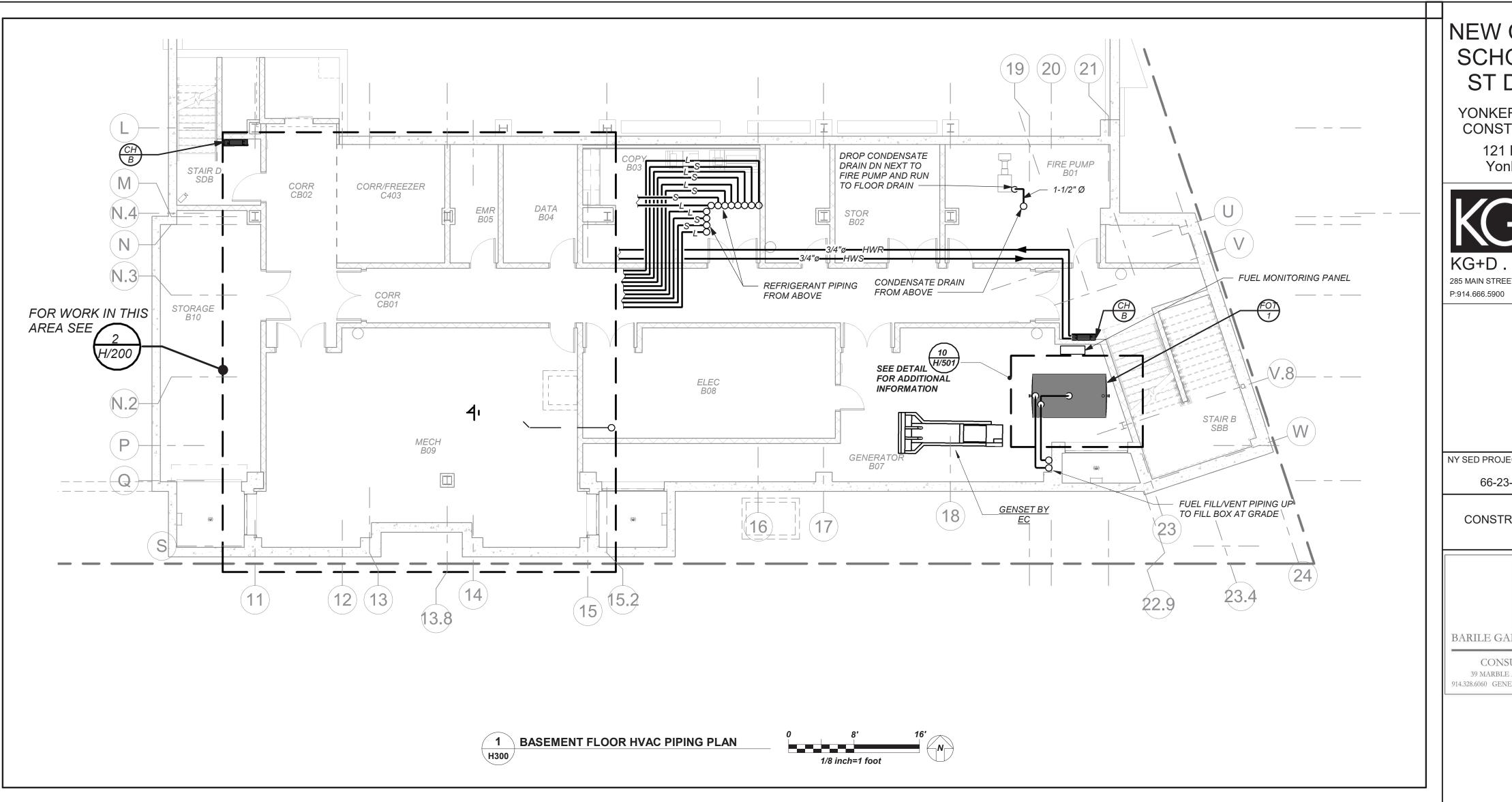
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Gym Basement Fit-Out

H213



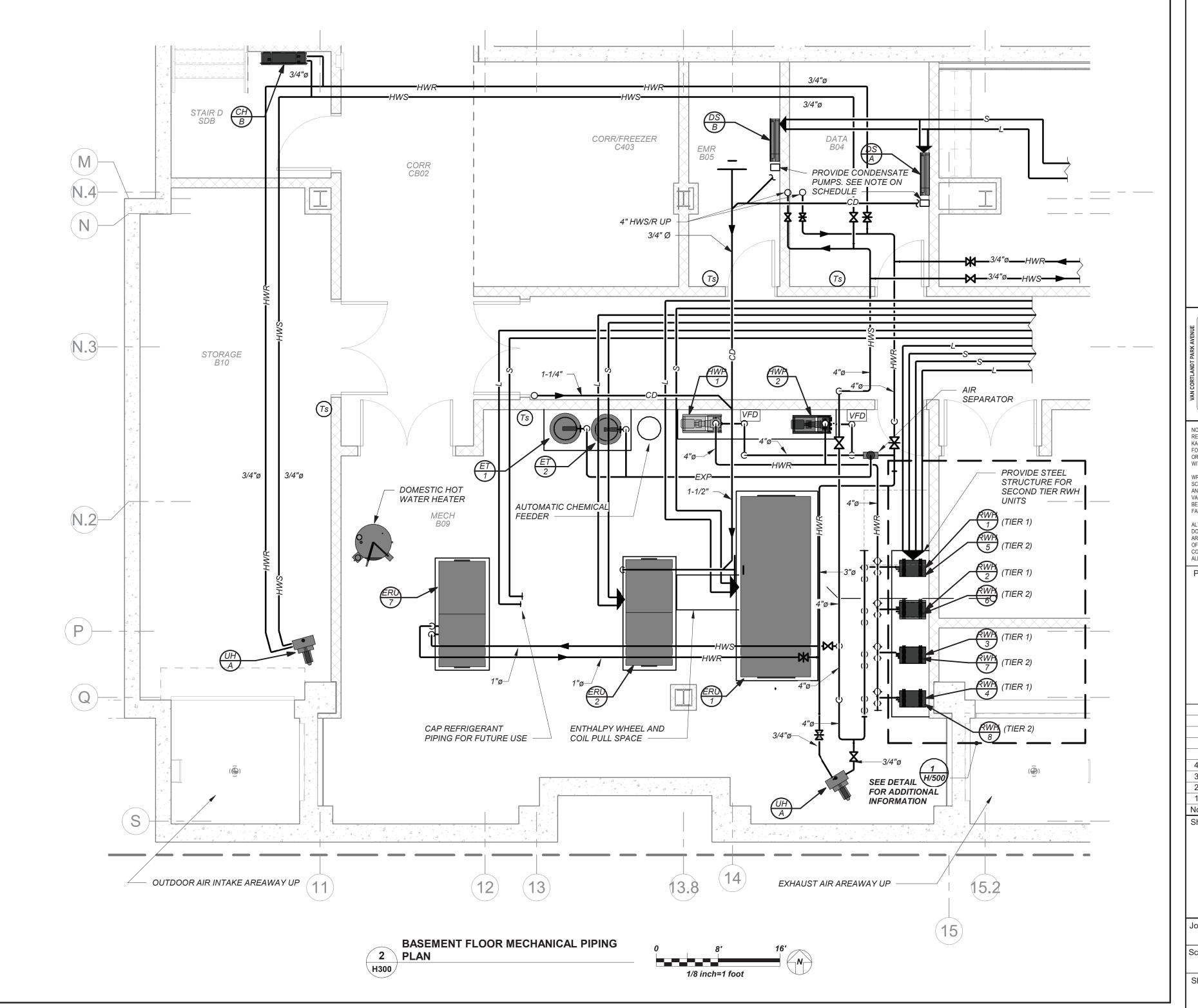
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NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD



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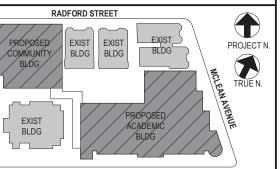
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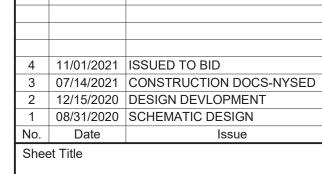
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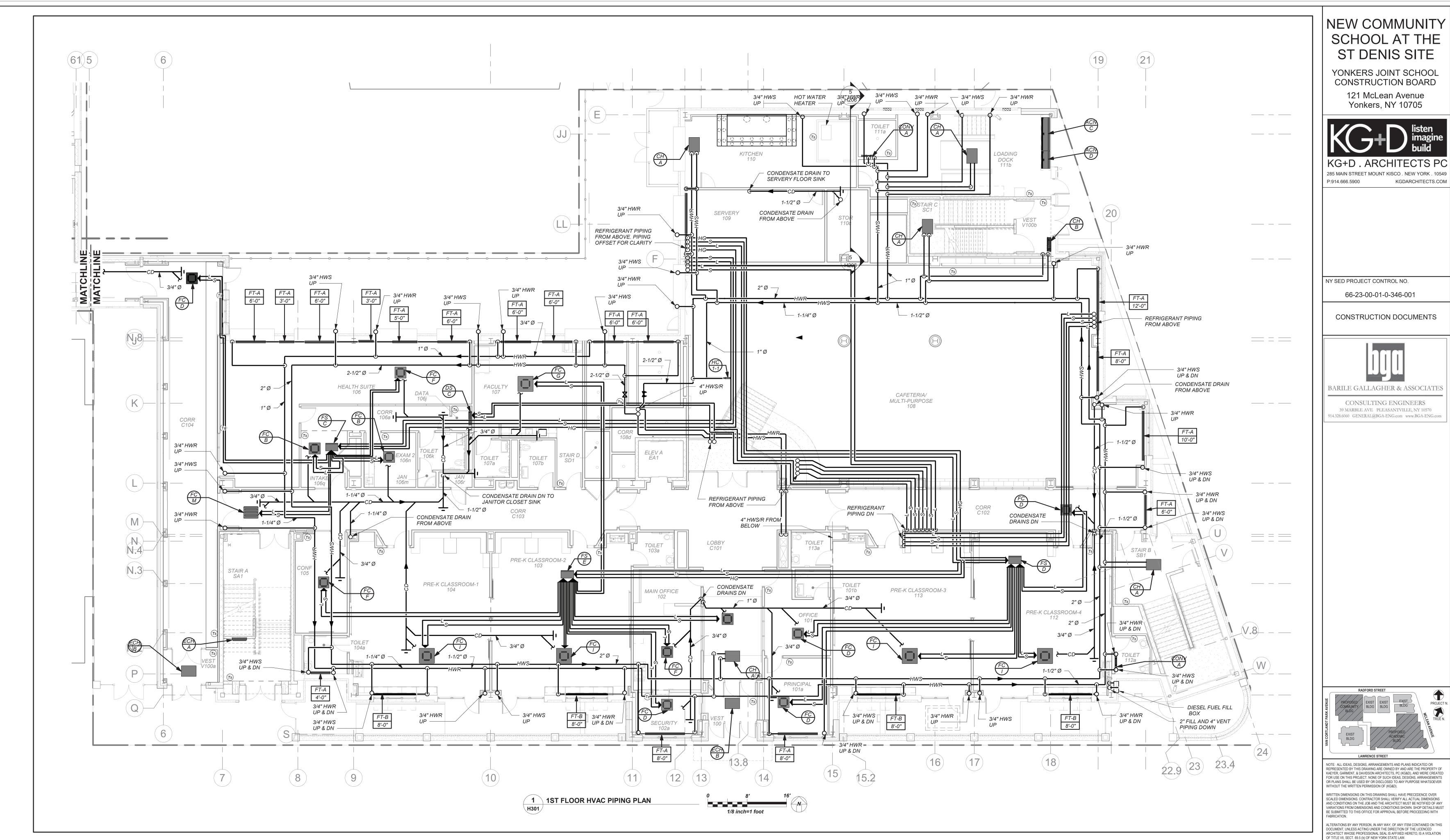


Basement Piping

No. Date 09/02/21

Scale AS NOTED Drawn / Checked BGA/ BGA

Sheet Number H300



HOT WATER SUPPLY AND RETURN LOOP IS LOCATED IN FIRST FLOOR CEILING. DOWNFEED TO FIRST FLOOR TERMINAL UNITS AND UPFEED TO SECOND FLOOR TERMINAL UNITS. SEE DETAIL 1/H503 FOR PIPING RISER DIAGRAM.

VRF AND DUCTLESS SPLIT SYSTEMS:

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PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN. NEW COMMUNITY SCHOOL AT THE ST DENIS SITE YONKERS JOINT SCHOOL

> 121 McLean Avenue Yonkers, NY 10705

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H301

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No. Date

Sheet Number

Sheet Title

07/14/2021 CONSTRUCTION DOCS-NYSED

12/15/2020 DESIGN DEVLOPMENT

1st Floor Piping

08/31/2020 SCHEMATIC DESIGN

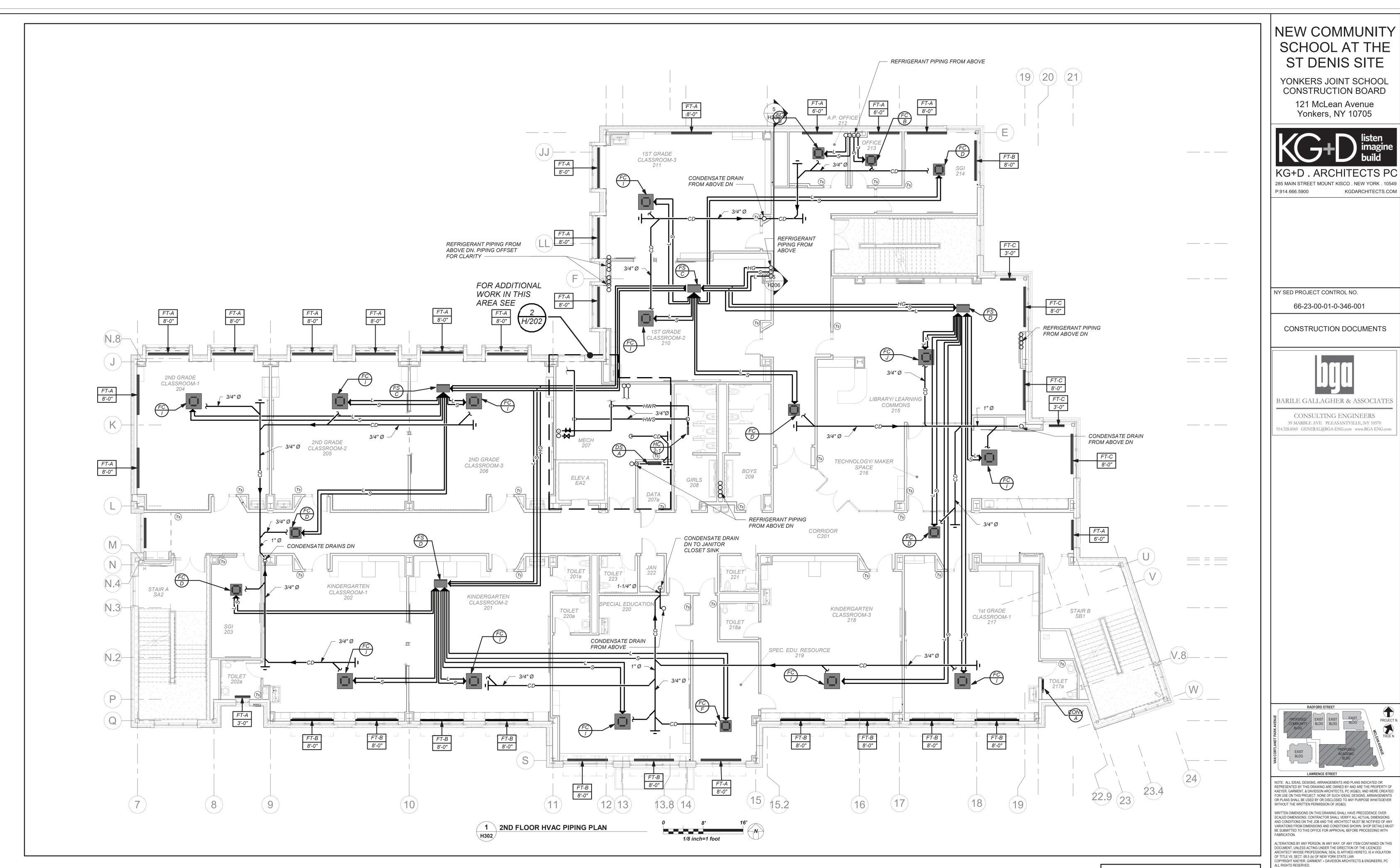
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VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

BEFORE FABRICATION THIS CONTRACTOR SHALL



SEE FIRST FLOOR PIPING PLAN FOR HOT WATER SUPPLY AND RETURN LOOP UPFEEDING SECOND FLOOR TERMINAL UNITS. SEE DETAIL 1/H503 FOR PIPING RISER

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07/14/2021 CONSTRUCTION DOCS-NYSED

2nd Floor Piping

H302

08/24/21

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12/15/2020 DESIGN DEVLOPMENT

08/31/2020 SCHEMATIC DESIGN

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YONKERS JOINT SCHOOL CONSTRUCTION BOARD

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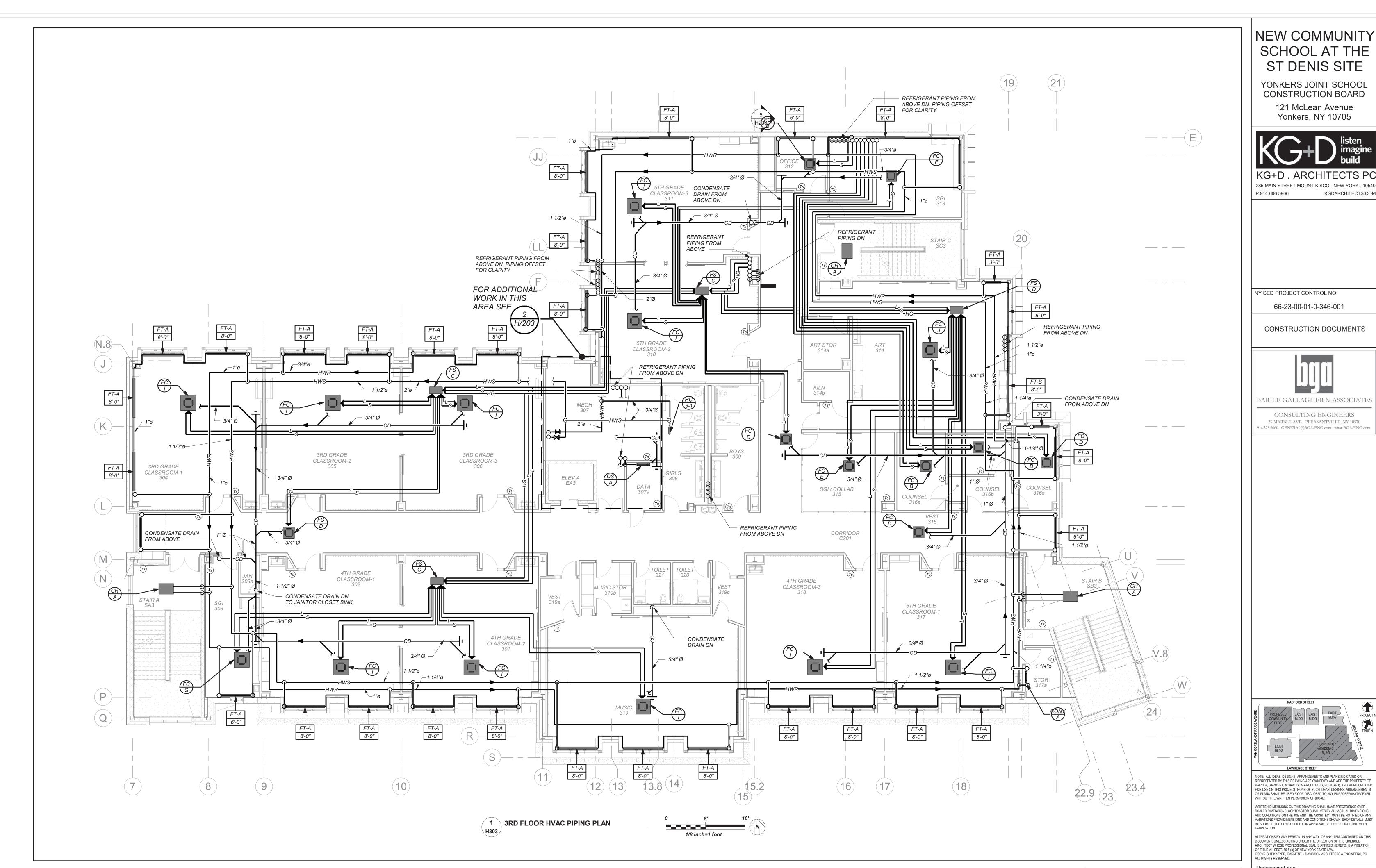
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OF ALL OTHER CONTRACTORS



HOT WATER SUPPLY AND RETURN LOOP SHOWN ON PLAN OUTSIDE OF MECHANICAL ROOM IS LOCATED IN SECOND FLOOR CEILING BELOW. SHOWN ON THIS PLAN FOR CLARITY. UPFEED TO THIRD FLOOR TERMINAL

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NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

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2019-1026

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07/14/2021 CONSTRUCTION DOCS-NYSED

3rd Floor Piping

H303

08/24/21

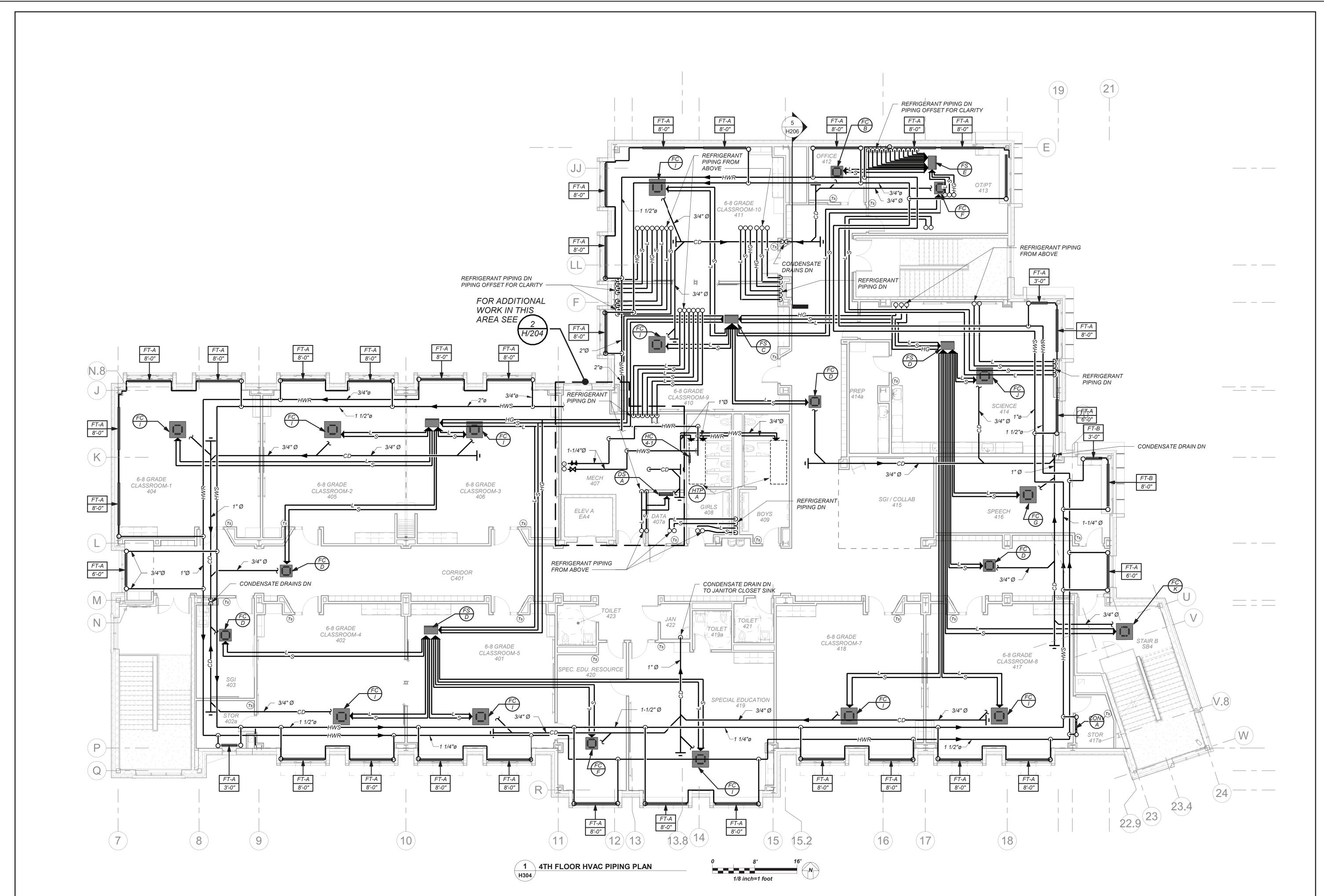
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2 12/15/2020 DESIGN DEVLOPMENT

1 08/31/2020 SCHEMATIC DESIGN
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HOT WATER SUPPLY AND RETURN LOOP SHOWN ON PLAN OUTSIDE OF MECHANICAL ROOM IS LOCATED IN THIRD FLOOR CEILING BELOW. SHOWN ON THIS PLAN FOR CLARITY. UPFEED TO FOURTH FLOOR TERMINAL UNITS. SEE DETAIL 1/H503 FOR PIPING RISER DIAGRAM.

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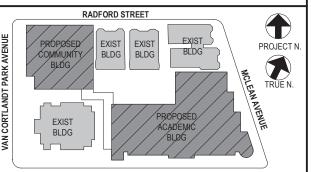
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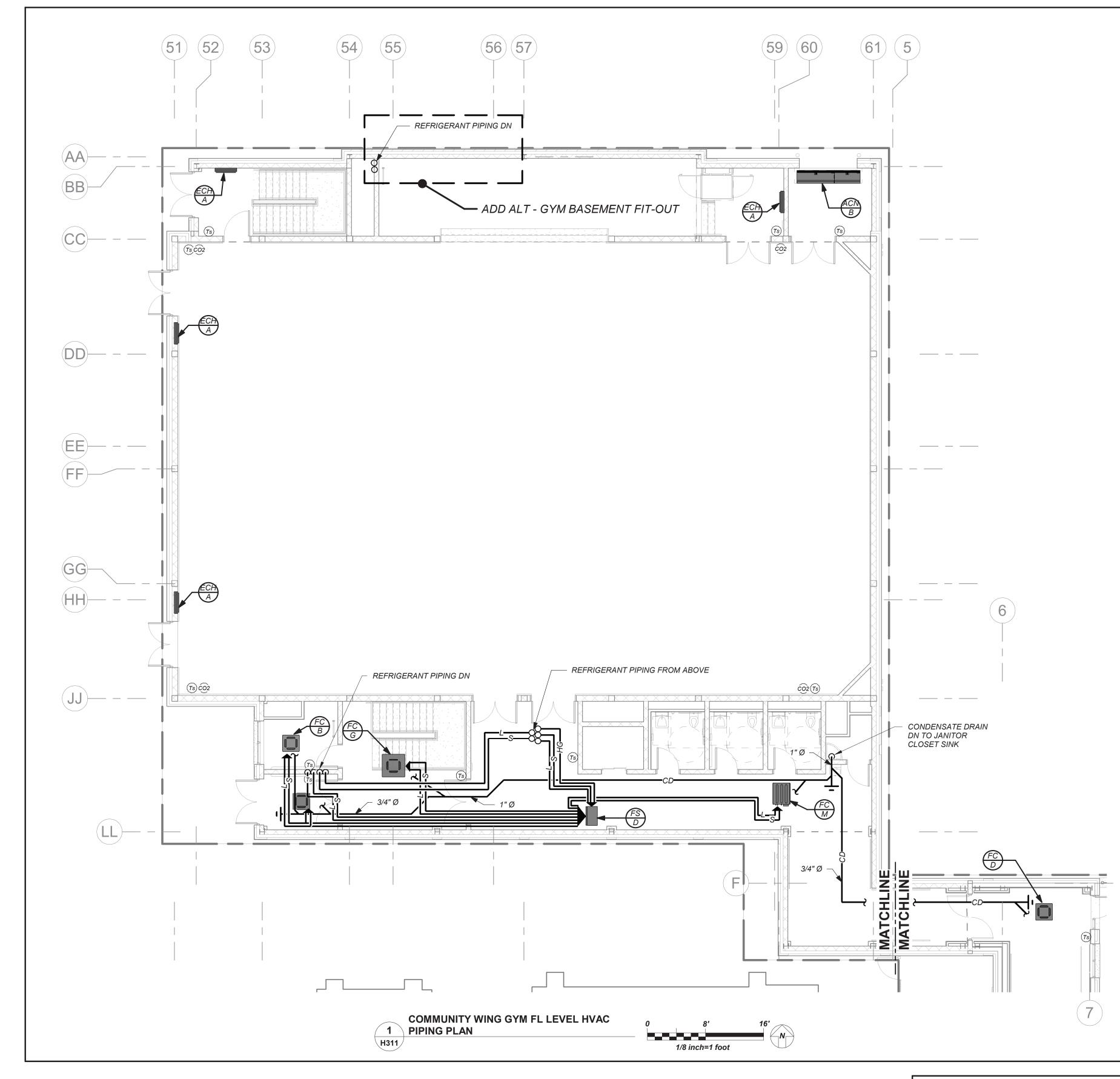
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4th Floor Piping

08/24/21 2019-1026 Drawn / Checked AS NOTED BGA/ BGA Sheet Number

H304



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NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL

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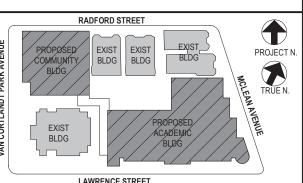
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No. Date Issue

Sheet Title

Community Wing 1st Floor Piping

2019-1026

10/19/21 Drawn / Checked AS NOTED BGA/ BGA

Sheet Number H311

				A	RFLOW	CONDIT	TONS	S	UPPLY	FAN		EXHAU	UST FAI	N	ENT	THALP	Y WH	EEL		REMOTE HEAT PUMP UNIT DATA	DX F	ITG/C	CLG CO	OIL DA			ELECTRIC	CAL DATA	4	DIME	NSIONS			DELMBIG
BUILDING	SERVICE	LOCATION	MODEL No.	O.A. CFM	E.A. R. CFM CF	A. S.A.ES M IN. W	SP. R.A.ESP. C IN. WC	TYPE	CFM	T.S.P. IN. W.C.	HP T	YPE (CFM T.S.	.P. W.C. HP	L.A.T.SU DB°F	UMMER L.A WB°F DE	A.T.WINTER B°F WB°I	R HP F 2	MARK	DESCRIPTION	CAPACI TOTAL/SI	TY VEL EN. F.	OCITY E.A. P.M. DB/	.T. *F L.A.T /WB DB/	T. F INT. WB RET	AKE URN	VOLTAGE	MCA N	ИОСР	L	W H	WEIGH LBS		REMARKS
ACADEMIC	1ST FLOOR CLASSROOMS	BASEMENT MECHANICAL	ERP-I-02-EW-D-TB	2560	2560 0	0.75	3.0	PLENUM	2560	1.0	5.0 CE	NTR. 2	560 0.7	2.0	80.3	67.447	7.8 39.9	9 0.25	HP 1A	REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	138.01	44.0 5	00 80,	/67 52,	/52 MER	V 13	208/3/60	18	25	140.0 5.	5.0 55.0	3000	00	REFER TO 234567811
ACADEMIC	1ST FLOOR OFFICES	BASEMENT MECHANICAL	U-ERV-COIL-600	570	570 0	0.75	2.0	PLENUM	570	0.75	1.5 CE	NTR. 5	570 0.7	75 1.5	80	67.151	1.7 41.0	6 –	HP 1B	REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	30.0 2	22.2 5	00 79,	/67 55,	/54 MER	V 13	208/3/60	15.2	20	40.0 3.	2.0 24.0	1000	00	REFER TO (2) (3) (4) (6) (7) (8) (12) (13)
NOT USED	-	1	-	_			_	_	_	-	_	-		- -	_	-		-	-	_	-	_	-		_	_	-	-	-	-		_		_
ACADEMIC	2ND FLOOR CLASSROOMS/OFFICES	MECHANICAL ROOM 2ND FLOOR	R ERP-I-07-EW-D-TB	7500	7500 0	0.75	7.5	PLENUM	7500	1.0	10.0 CE	NTR. 7	500 0.7	7.5	80.2	67.347	7.7 39.9	9 0.50	HP 3	REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	336.0 2	48.7 5	00 80,	/67 52,	/52 MER	V 13	208/3/60	55	80	140.0 8	6.0 92.0	5000	00	REFER TO 23456781
ACADEMIC	3RD FLOOR CLASSROOMS/OFFICES	MECHANICAL ROOM 3RD FLOOR	R ERP-I-07-EW-D-TB	7400	7400 0	0.75	7.5	PLENUM	7400	1.0	10.0 CE	NTR. 7	0.7	7.5	80.2	67.347	7.6 39.8	8 0.50	HP 5	REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	336.0 2	48.7 5	00 80,	/67 52,	/52 MER	V 13	208/3/60	55	80	140.0 8	6.0 92.0	5000	00	REFER TO 23456781
ACADEMIC	4TH FLOOR CLASSROOMS/OFFICES	MECHANICAL ROOM 4TH FLOOR	? ERP-1-07-EW-D-TB	7920	7920 0	0.75	7.5	PLENUM	7920	1.0	10.0 CE	NTR. 7	920 0.7	7.5	80.2	67.347	7.7 39.8	8 0.50	HP 7	REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	336.0 2	48.7 5	00 80,	/67 52,	/52 MER	V 13	208/3/60	61	80	140.0 8	86.0 92.0	5000	00	REFER TO 23456781
ACADEMIC	BASEMENT GENERAL VENTILATION	BASEMENT MECHANICAL	<i>U-ERV-COIL-1200</i>	1050	1050 0	0.50	2.0	PLENUM	1050	0.75	2.0 CE	NTR. 1	050 0.7	75 2.0	80	67.151	1.7 41.0	6 –	-	PROVIDE 40,000 BTUH HOT WATER COIL	_	_	_		MER	V 13	208/3/60	18	25	40.0 3.	2.0 24.(1000	00	REFER TO 234101215
COMMUNITY	BASEMENT TOILETS/LOCKERS	BASEMENT MECHANICAL	<i>©</i> ERP-E-02-FP-D-TB	2400	2400 0	0.75	3.0	PLENUM	2400	0.75	3.0 CE	NTR. 2	400 0.7	75 2.0	80	67.2 47	7.7 40.	1 **	(HP) 15	REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	96.0	71.1 5	00 80,	/67 52,	/52 MER	V 13	208/3/60	17	25	140.0 5.	5.0 55.0	3000	00	23456781

 $oxed{N}$ (1) AS MANUFACTURED BY "ANNEXAIR". (KLIMA NEW YORK 914 255-4390) (2) FROST CONTROL BY V.F.D.

DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY WHEEL (**ERU-8 SHALL HAVE STATIC PLATE CORE WITH BYPASS), DIRTY FILTER CONTACTS, BLOWER (3) DESIGN AIR CONDITION: SUMMER O.A. (95F/75F) R.A. (75F/63F); SHEAVE AND BELT FOR SELECTED STATIC USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, WINTER O.A. (OF/OF) R.A. (70F/53F). PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), VRF TYPE DIRECT EXPANSION COIL FOR HEAT PUMP DUTY, STAINLESS STEEL DRAIN PAN, HINGED ACCÈSS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (4) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S (AS NOTED). PROVIDE FULL ECONOMIZER, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER. SUPERVISION FOR FIELD INSTALLATION AND START-UP.

(6) COIL SHALL BE VRF TYPE.

(8) REFRIGERANT R-410A.

(7) SPLIT-SYSTEM IS VRF TYPE HEAT PUMP.

5 PROVIDE CUSTOM INDOOR ERU UNIT WITH STAGED DIRECT EXPANSION HEATING AND COOLING, MOTORIZED CONTROL 9 AS MANUFACTURED BY "ENERGY WALL".

10 PROVIDE INDOOR ERU UNIT WITH HOT WATER HEATING COIL, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY CORE WITH BYPASS, DIRTY FILTER CONTACTS, DIRECT DRIVE BLOWER FOR SELECTED STATIC PRESSURE USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS NOTED). PROVIDE FULL ECONOMIZER, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.

14 ADD ALTERNATE - GYM BASEMENT FITOUT. 1) PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FACTORY

13 PROVIDE INDOOR ERU UNIT WITH STAGED DIRECT EXPANSION HEATING AND COOLING, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY CORE WITH BYPASS, DIRTY FILTER CONTACTS, DIRECT DRIVE BLOWER FOR SELECTED STATIC PRESSURE USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), DIRECT EXPANSION VRF TYPE COIL FOR HEAT PUMP DUTY, ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS NOTED). PROVIDE FULL ECONOMIZER, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.

(5) ERU SHALL BE PROVIDED IN SECTIONS THAT CAN BE RIGGED INTO THE BUILDING THROUGH NORMAL OR 12 PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FIELD TEMPORARY OPENINGS. COORDINATE WITH GC AND BUILDING CONSTRUCTION PHASES.

											SC	HE	DUL	E	0F	01	<i>YTL</i>	000	OR E	ENERGY RECOVERY UN	IITS												
	5	0.551.41.0.5	/ 0.04T/0.1/		Al	<i>RFLO</i> W	V CONDITI	ONS	SUPPL	Y FAN	E	XHAUS	T FAN		ENTH	ALPY	WHEE	<u>:L</u>		REMOTE HEAT PUMP UNIT DATA	DX .	HTG/C	LG CO	OIL DAT			ELECTRI	ICAL DATA	1	DIMENS	SIONS		DELMBYC
MARK	BUILDING	SERVICE	LOCATION	MODEL No.	O.A. CFM	E.A. CFM	R.A. S.A.ESF CFM IN. WC	P. R.A.ESP. IN. WC	TYPE CFM	T.S.P. IN. W.C.	HP TYP.	E CFM	1 T.S.P. IN. W.C	HP H	.A.T.SUMM DB°F WE	MER L.A.T.W B°F DB°F	WINTER WB°F	HP (2)	MARK	DESCRIPTION	CAPA TOTAL/ MB:	CITY VEL 'SEN. H F.	OCITY E.A. P.M. DB/	T. °F L.A.T. 'WB DB/WL	F INTAKI RETUR		TAGE	MCA M	IOCP	L W	V H	WEIGHT LBS	REMARKS
ERUO 1	ACADEMIC	CAFETERIA 290	ROOF	ERP-E-09-EW05-D	5400	5400	4600 0.75	7.5	PLENUM 10000	1.5	0.0 PLEN	UM 10000	0 1.0	7.5	30.1 67	7.2 47.6	39.9 C).25	HP 9	REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	504	<i>373 5</i>	00 77.	6 / 52 65.2 / 5	MERV :	200	8/3/60	61	70 2	207 94.	.0 94.0	6,800	REFER TO 345678900
ERUO 2	ACADEMIC	1ST, 2ND, 3RD, 4TH FLR. GANG TOILETS	ROOF	ERP-E-05-FP-D	5500	5500	0 1.5	1.0	PLENUM 5500	1.5	3.0 PLEN	UM 5500	0 1.0	5.0	79.8 67	7.4 47.7	39.8	-	_	_	_	-			MERV :	208	8/3/60	40 .	50	96 56	3 54	3,000	REFER TO 345672
ERUO 3	COMMUNITY	GYMNASIUM	ROOF	ERP-E-12-EW05-D	6520	6520	3740 1.5	1.0	PLENUM 14,00	0 1.5 1	0.0 PLEN	UM 14,00	00 1.0	7.5	30.5 <i>67</i>	7.6 47.7	39.6 C).25	HP 14	REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	549	<i>388 5</i>	00 82.	1/ 52/ 75.1/ 5	MERV	208	8/3/60	88 1	100	207 10	4 105	7,000	345678900

INSTALLED.

M (1) AS MANUFACTURED BY "ANNEXAIR". (KLIMA NEW YORK 914 255-4390)

(2) FROST CONTROL BY V.F.D.

(3) DESIGN AIR CONDITION: SUMMER O.A. (95F/75F) R.A. (75F/63F); WINTER O.A. (0F/0F) R.A. (70F/53F). 4 INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S SUPERVISION FOR

5 PROVIDE CUSTOM ROOFTOP ERU UNIT WITH STAGED HEATING AND COOLING, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY WHEEL (**ERUO-2 SHALL HAVE A STATIC PLATE HEAT EXCHANGER), DIRTY FILTER CONTACTS, SHEAVE AND BELT FOR SELECTED STATIC USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, POWERED CONVENIENCE OUTLET, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), STAINLESS STEEL DRAIN PAN, HINGED ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS NOTED). PROVIDE FIELD INSTALLED FULL ECONOMIZER, INTAKE AND EXHAUST HOODS, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.

(6) PROVIDE POWERED 120 VOLT GFI SERVICE RECEPTACLE. (7) INSTALL ERU ON FULL CURB SUPPORT.

COORDINATE CURB HEIGHT WITH GC FOR MINIMUM *12" ABOVE ROOF.*

(8) COIL SHALL BE VRF TYPE.

9 SPLIT-SYSTEM IS VRF TYPE HEAT PUMP. 70) REFRIGERANT R-410A.

(11) PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FACTORY INSTALLED.

(12) PROVIDE CUSTOM ROOFTOP ERU UNIT WITH, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, STATIC PLATE ENERGY RECOVERY HEAT EXCHANGER, DIRTY FILTER CONTACTS, SHEAVE AND BELT FOR SELECTED STATIC USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, POWERED CONVENIENCE OUTLET, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), HINGED ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS NOTED). PROVIDE FIELD INSTALLED FULL ECONOMIZER, INTAKE AND EXHAUST HOODS, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION

	SC	HEDU	ILE C	OF E	LECTI	RIC AL	R CUR	TAINS	
MARK	MODEL No. 🕥	BTU/HR	CAPACI AMPS	TY DATA KW	CFM	ELECTRIC SERVICE		DATA WEIGHT (LBS)	REMARKS
ACN A	E100	13,650	11.1	4.0	1088	208/3/60	42X12X21	120	REFER TO (2)(3)(4)(5)
ACM B	E100	13,650	11.1	4.0	1088	208/3/60	62X12X21	140	REFER TO 2345
ACM C	E150	27,300	22.2	8.0	1854	208/3/60	82X12X21	160	REFER TO (2)(3)(4)(5)
ACN D	E150	13,650	11.1	4.0	1854	208/3/60	42X12X21	120	REFER TO (2)(3)(4)(5)

AS MANUFACTURED BY "WING". (KLIMA NEW YORK 914 255-4390) (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 3 PROVIDE UNIT MOUNTED SPEED CONTROLLER AND ALL MOUNTING

4 QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS. (5) PROVIDE ALL POWER RELAYS AND BACNET

	SCH	EDUL	E OF	EL	ECTI	RIC C	ABINET	T HEAT	ERS	5
MARK	MODEL No. 1	CA BTU/HR	PACITY D AMPS	ATA KW	MOTOR WATTS	ELECTRIC SERVICE		DATA WEIGHT (LBS)	MTG.	REMARKS
ECH A	MFQ8008	27,368	38.5	8.0	50	208/1/60	32X23X4	50	WALL	REFER TO 2345
ECH B	FFCHRENW	17,060	24.0	5.0	50	208/1/60	23X23X7	50	CLG.	REFER TO (2)(3)(4)(5)
× 0	AS MANUFACT	TURED BY "N	MARKLEY BEI	RKO".			4 QUANTITIES	AS IDENTIFIED C	ON HVAC	DRAWINGS.

2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 3 PROVIDE UNIT MOUNTED VARIABLE SPEED CONTROLLER AND 5 PROVIDE ALL POWER RELAYS AND BACNET

	SC	HEDU	JLE (OF I	ELEC	TRIC	UNIT	HEATER	75	
MARK	MODEL No. 🛈	CA BTU/HR	APACITY D AMPS	ATA KW	MOTOR HP		PHYSICAL LxWxH (IN)	DATA WEIGHT (LBS)	MTG.	REMARKS
EUH A	HER 30C 3101	10,200	8.3	3.0	1/40	208/3/60	14X12X17	50	CEILING	REFER TO (2)(3)(4)(5)

N (1) AS MANUFACTURED BY "MODINE". (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

MOUNTING HARDWARE.

4 QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS. 5 PROVIDE ALL POWER RELAYS AND BACNET 3 PROVIDE UNIT MOUNTED VARIABLE SPEED CONTROLLER AND

		SCHEDULE C	OF VR	F REF	RIGERA	ANT	TO WA	TER HE	$\Xi A7$	Γ	ΞX	CHAN	VGE	ERS	
							(CAPACITIES							
MARK	BUILDING	SERVICE	LOCATION	MODEL No. 🛈	SOURCE			LOAD				ELECTRIC	мса	МОСР	REMARKS
				No. (f)	JOUNCE	GPM	NOMINAL COOLING BTU/HR	CAPACITY HEATING BTU/HR	E.W.T.		P.D. FT.WG	SERVICE	MCA	МОСР	
RWH	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 2	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 3	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 4	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 5	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 6	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 7	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH	ACADEMIC	HYDRONIC HOT WATER SYSTEM	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2	

N (1) AS MANUFACTURED BY "LG.". (KLIMA NEW YORK 914 255-4390)

(2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S SUPERVISION FOR FIELD INSTALLATION AND

THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.

MARK	MODEL No. 🛈	UNIT	PORTS	(- /	MCA	ELECTRIC SERVICE		DATA WEIGHT (LBS)	REMARKS
FS A	PRHR023A	120,000	2	60,000	0.17	208/1/60	19X19X9	35	REFER TO 234
FS B	PRHR033A	180,000	3	60,000	0.17		19X19X9	38	REFER TO (2)(3)(4)
	PRHR043A	230,000	4	60,000	0.17		19X19X9	40	REFER TO (2)(3)(4)
	PRHR063A	230,000	6	60,000	0.27		31X19X9	60	REFER TO (2)(3)(4)
[S]	PRHR083A	230,000	8	60,000	0.27	•	31X19X9	68	REFÉR TO (2)(3)(4)
						_			

SCHEDULE OF VRF FLOW SELECTOR UNITS

N 1 AS MANUFACTURED BY "LG." (KLIMA NEW YORK 914 255-4390) (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

E 3 REFRIGERANT R-410A. 4) PROVIDE MOUNTING HARDWARE. MOUNT UNIT HORIZONTALLY.

		SCH	HEDULE	E OF EXP	PANSION 7	TANKS
MARK	SERVICE	LOCATION	MODEL Nº ①	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
ET 1	HOT WATER HEATING LOOP	BASEMENT MECHANICAL	800-L-150	211	70	REFER TO @34
ET 2	HOT WATER HEATING LOOP	BASEMENT MECHANICAL	800-L-150	211	70	REFER TO 234

N (1) AS MANUFACTURED BY "AMTROL." f (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

(3) ASME RATED, VERTICAL MOUNTING. 4 FILL PRESSURE = 12 PSI, OPERATING PRESSURE = 30 PSI.

		SC	HED	ULI	EC)F F	PUMF	25	
MARK	SERVICE	LOCATION	MODEL Nº ①	GPM ⊕	HEAD FT.H₂O	RPM	MOTOR HP	ELECTRIC SERVICE	REMARKS
HWP 1	HOT WATER HEATING LOOP	BASEMENT MECHANICAL	e1510 2.5BB	200	72.1	1750	10	208/3/60	REFER TO 23
HWP 2	HOT WATER HEATING LOOP	BASEMENT MECHANICAL	e1510 2.5BB	200	72.1	1750	10	208/3/60	REFER TO 23

N (1) AS MANUFACTURED BY "BELL & GOSSETT". 7 (2) INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS.

S (3) PROVIDE VFD SPEED CONTROLLER. 4) 200 GPM CAPACITY, 167 GPM NORMAL SYSTEM FLOW RATE.

		SCHE	EDULE (OF IN	<i>IDOO</i>	RD	UCTL	ESS	SA	IR F	HANDLII	NG UI	NITS
		GENERAL	. DATA		CAP	ACITY	PH	IYSICAL	L DATA		ELECTRIC	AL DATA	
MARK	BUILDING	SERVICE	MODEL No. 1	MOUNTING LOCATION	COOLING (MBH)	CFM	UNIT WEIGHT (POUNDS)	L	D	Н	SERVICE	MCA	REMARKS
DS A	ACADEMIC & COMMUNITY	DATA ROOM	ARNU123SJA4	HIGH WALL	12.0	300	30	33	8	12	208/1/60	0.31	REFER TO 23456
DS B	ACADEMIC & COMMUNITY	EMR ROOM	ARNU073SJA4	HIGH WALL	7.0	255	30	33	8	12	208/1/60	0.31	REFER TO 23456
DS C	ACADEMIC	DATA ROOM	ARNU053SJA4	HIGH WALL	5.0	200	30	33	8	12	208/1/60	0.31	REFER TO 2345 6

N (1) AS MANUFACTURED BY "LG". (KLIMA NEW YORK 914 255-4390)

O CAPACITIES BASED ON 40°F SST, 95°F AMBIENT. $oldsymbol{arphi}$ $oldsymbol{arphi}$ PROVIDE MINI SPLIT INLINE CONDENSATE PUMP, LITTLE GIANT #VCMX-2UOL, 12OV/1PH. REFRIGERANT R410 A.

(5) INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. 6 UNIT SHALL BE CONTROLLED VIA MFGR. BACNET NETWORK CONTROLLER. BMS SHALL INTERFACE WITH CONTROLLER.

				SCHEL	DULE C	OF OU	TDOC	OR H	EAT	PUMP	UNIT	S	
	G	ENERAL DATA		CAF	PACITY		PHYSICA	L DATA		ELECTR	ICAL SUP	PLY	
MARK	BUILDING	SERVICE	MODEL ① No.	COOLING (MBH)	HEATING (MBH)	UNIT WEIGHT (POUNDS)	L	D	Н	SERVICE	MCA	EER	REMARKS
HP A	ACADEMIC	DATA ROOMS & EMR ROOM	ARUMO48GSS5	48.0	54.0	263	<i>38"</i>	13"	54''	208/1/60	24.0	12.5	REFER TO 2345678
HP B	COMMUNITY	DATA ROOM & EMR ROOM	ARUN024GSS4	24.0	27.0	160	38"	16"	33''	208/1/60	19.6	12.5	REFER TO 2345678

N(1) AS MANUFACTURED BY "LG". (KLIMA NEW YORK 914 255-4390) $0 \over 10$ REFRIGERANT R-410A. E 3 INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

SECURE UNIT TO ROOF MOUNTED ROOF RAIL. FURNISHED BY THIS CONTRACTOR, INSTALLED BY GC. (5) DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.

(6) UNIT SHALL BE CONTROLLED VIA MANUFACTURER'S DDC NETWORK CONTROLLER TO INDOOR HARDWIRED CONTROLLER.
PROVIDE UNIT WITH SNOW/WIND GUARD AT FAN INTAKE. DISCONNECT SWITCE ROOF CURB EQUIPMENT SUPPORTS, VIBRATION ISOLATION PADS AND LOW
ROOF CURB EQUIPMENT SUPPORTS, VIBRATION ISOLATION PADS AND LOW
AMBIENT CONTROLS.

8 LOW SOUND CONDENSER FAN.

	RADI OND STREET
	PROPOSED COMMUNITY PROJECT
	PROPOSED PROPOSED TRUEN PROPOSED ACADEMIC BLOG BLOG PROPOSED ACADEMIC BLOG BLOG
	LAWRENCE STREET
	NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR

NEW COMMUNITY

SCHOOL AT THE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD

121 McLEAN AVENUE YONKERS, NY 10705

285 MAIN STREET MOUNT KISCO . NEW YORK . 10549

IY SED PROJECT CONTROL NO.

66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS

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Professional Seal

4 11/01/2021 ISSUED TO BID 3 07/14/2021 CONSTRUCTION DOCS-NYSED 2 12/15/2020 DESIGN DEVELOPMENT 1 08/31/2020 SCHEMATIC DESIGN
No. Date Issue

SCHEDULES

2019-1026 rawn / Checked AS NOTED BGA/BGA

Sheet Number

H400

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DBE: TAB: Layout1 - Y:\YONKERS PUBLIC SCHOOLS\YPS - St. Denis School - New Bldg (2017.00)\Drawings\HVAC\201700H400.dwg - DATE: Nov 04, 2021 - 8:57am

	SCHEDULE OF VENTILATION AIR FANS														
MARK	SERVICE	LOCATION	TYPE	MODEL No. 🛈	CFM	TOT. S.P. IN H ₂ O	HP	ELECTRIC SERVICE	REMARKS						
SF 1	VENTILATION AIR	COMMUNITY FIRST FLOOR CEILING	IN-LINE FAN	CSP-A510-VG	220	0.50	1/3	120/1/60	REFER TO 234						
SF 2	VENTILATION AIR	ACADEMIC FIRST FLOOR CEILING	IN—LINE FAN	CSP-A510-VG	250	0.50	1/3	120/1/60	REFER TO 234						

 $\stackrel{N}{O}$ (1) AS MANUFACTURED BY "GREENHECK".

INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

5 3 INTAKE PLENUM SHALL BE INSULATED.

4 PROVIDE FAN WITH VARI-GREEN MOTOR SPEED CONTROL, OR EQUAL.

	SC	HEDUL	E O	F	CA	BΙΛ	IET	SCHEDULE OF CABINET HEATERS MODEL CAPACITY DATA MOTOR MOTOR FLECTRIC DELICATIONS												
MARK	TYPE UNIT	MODEL Nº ①	CAF MBH	PACITY CFM		PD.FT.	MOTOR WATTS	MOTOR RPM	ELECTRIC SERVICE	REMARKS										
CH A	CEILING MTD.	RC 1170 06	20.6	335	2.0	0.25	1/15	1050	120/1/60	2 3 4 5 6										
CH B	RECESSED WALL	RW 1120 06	20.6	335	2.0	0.25	1/15	1050	120/1/60	23456										

N (1) AS MANUFACTURED BY "STERLING".

Q install per manufacturer's recommendations.

(3) CAPACITIES BASED ON LOW SPEED FAN SETTING, AND 112 A.W.T.

 $oldsymbol{6}$ $oldsymbol{4}$ PROVIDE 2 ROW COIL, THROWAWAY FILTERS, INTEGRAL SPEED CONTROL, DISCONNECT SWITCH, REMOTE WALL SENSOR CONNECTED TO BMS, GASKET AND PERMA LAP FRAME. COORDINATE FINISH AND COLOR WITH ARCHITECT.

(5) UNIT DIMENSIONS 36"x25"x9.5", WEIGHT 150 LBS.

6 PROVIDE WITH HOT WATER RETURN AQUASTAT. AQUASTAT SHALL NOT ALLOW FAN TO OPERATE AT WATER TEMPERATURE BELOW 98 DEGREES F.

			SCHEDUL	E OF VRF	DUCTLESS	S AIR SO	URC	CE HEAT	RE	COVERY	OUTD	OOR	UNITS		
		G	GENERAL DATA			OUTDOOR COMPRESSOR DATE		ENSING UNIT INFO		ION DENSER FAN DATA	ELEC	TRICAL INF	ORMATION		DEMARKS
MARK	BUILDING	SERVICE	LOCATION	MODEL No. 🕡	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR		MOTOR OUTPUT (KW)	(MOTOR OUTRUIT	V/PH/HZ	MCA	MOCP	COP	REMARKS
HP 1A	ACADEMIC	FIRST FLOOR ERU-1	ROOF	MULTI V5 ARUM144 BTE5	144,000	162,000	2	8.0X2	2	1.0+1.0	208/3/60	51.1	70	3.2	REFER TO 2345
(HP) 1B	ACADEMIC	FIRST FLOOR ERU-2	ROOF	MULTI V5 ARUN38 GSS4	38,000	42,000	1	8.0X1	2	1.0+1.0	208/1/60	25.0	40	3.2	REFER TO 2345
HP 1C	NOT USED	_	_	_	_	_		_		_		_	_		_
	ACADEMIC	FIRST FLOOR VRF INDOOR UNITS	ROOF	MULTI V5 ARUM241 BTE5	233,000	243,000	2	8.0X2	2	1.0+1.0	208/3/60	63.2	80	3.2	REFER TO 2345
HP 3	ACADEMIC	SECOND FLOOR ERU-4	ROOF	MULTI V5 ARUM408 BTE5	408,000	459,000	3	8.0X3	4	1.0+1.0+1.0+1.0	208/3/60	57.9+60.3	80+80	3.2	REFER TO 2345
HP 4	ACADEMIC	SECOND FLOOR VRF INDOOR UNITS	ROOF	MULTI V5 ARUM456 BTE5	456,000	513,000	4	8.0X4	6	1.0+1.0+1.0+ 1.0+1.0+1.0	208/3/60	<i>30.9+30.9</i> +60.3	40+40+80	3.2	REFER TO 2345
HP 5	ACADEMIC	THIRD FLOOR ERU-5	ROOF	MULTI V5 ARUM408 BTE5	408,000	459,000	3	8.0X3	4	1.0+1.0+1.0+1.0	208/3/60	57.9+60.3	80+80	3.2	REFER TO 2345
	ACADEMIC	THIRD FLOOR VRF INDOOR UNITS	ROOF	MULTI V5 ARUM456 BTE5	455,700	513,000	4	8.0X4	6	1.0+1.0+1.0+ 1.0+1.0+1.0	208/3/60	<i>30.9+30.9</i> +60.3	40+40+80	3.2	REFER TO 2345
	ACADEMIC	FOURTH FLOOR ERU-6	ROOF	MULTI V5 ARUM408 BTE5	408,000	459,000	3	8.0X3	4	1.0+1.0+1.0+1.0	208/3/60	57.9+60.3	80+80	3.2	REFER TO 2345
HP 8	ACADEMIC	FOURTH FLOOR VRF INDOOR UNITS	ROOF	MULTI V5 ARUM480 BTE5	476,000	540,000	5	8.0X5	6	1.0+1.0+1.0+ 1.0+1.0+1.0	208/3/60	30.9+51.1 +60.3	40+70+80	3.2	REFER TO 2345
(HP) 9	ACADEMIC	FIRST FLOOR CAFETERIA ERUO-1	ROOF	MULTI V5 ARUM504 BTE5	504,000	567,000	5	8.0X5	6	1.0+1.0+1.0+ 1.0+1.0+1.0	208/3/60	<i>30.9+53.6</i> <i>+60.3</i>	40+70+80	3.2	REFER TO 2345
HP 10	ACADEMIC	HOT WATER HEATING SUPPLY	ROOF	MULTI V5 ARUM504 BTE5	COOLING NOT USED	567,000	4	8.0X4	6	1.0+1.0+1.0+ 1.0+1.0+1.0	208/3/60	30.9+53.6 +60.3	40+70+80	3.2	REFER TO 2345
HP 11	ACADEMIC	HOT WATER HEATING SUPPLY	ROOF	MULTI V5 ARUM504 BTE5	COOLING NOT USED	567,000	4	8.0X4	6	1.0+1.0+1.0+ 1.0+1.0+1.0	208/3/60	<i>30.9+53.6</i> <i>+60.3</i>	40+70+80	3.2	REFER TO 2345
HP 12	ACADEMIC	FIRST FLOOR MEDICAL SUITE INDOOR UNITS	ROOF	MULTI V5 ARUM144 BTE5	144,000	162,000	2	8.0X2	1	1.0+1.0	208/3/60	51.1	70	3.4	REFER TO 2345
HP 13	ACADEMIC	SECOND, THIRD, FOURTH FLOOR OFFICES	ROOF	MULTI V5 ARUM072 BTE5	72,000	81,000	1	8.0X1	1	1.0	208/1/60	22.6	35	3.4	REFER TO 2345
(HP) 14	COMMUNITY	GYMNASIUM ERUO-3	ROOF	MULTI V5 ARUM504 BTE5	504,000	567,000	5	8.0X5	6	1.0+1.0+1.0+ 1.0+1.0+1.0	208/3/60	30.9+53.6 +60.3	40+70+80	3.2	REFER TO 2345
HP 15	COMMUNITY	TLTS./LCKRS/LOBBY/OFFICES	ROOF	MULTI V5 ARUM121 BTE5	119,700	135,000	1	8.0X1	1	1.0	208/3/60	30.9	40	3.4	REFER TO 2345
(HP) 16	COMMUNITY	TLTS./LCKRS/ERU-8	ROOF	MULTI V5 ARUM216 BTE5	216,100	243,000	2	8.0X2	2	1.0+1.0	208/3/60	60.3	80	3.2	REFER TO 23456

AS MANUFACTURED BY "LG".

COOLING BASED ON A.R.I. CONDITIONS.

INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

4 PROVIDE PROGRAMMABLE THERMOSTAT, LOW AMBIENT CONTROL, HARD START, CRANKCASE HEATER, DISCONNECT SWITCH. THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP

PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.

5 PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.

6 ADD ALTERNATE — GYM BASEMENT FITOUT.

		SCHEDULE	OF DU	JC7	⁻ M	OU	NTE	D HO	OT W	ATER	HE	4 <i>T</i> /N	IG COILS
MARK	BUILDING	SERVICE	HTG. CAPACITY BTU/HR	E.A.T. (° F)	L.A.T. (°F)	E.W.T. (° F)	L.W.T. (°F)	GPM	CFM	COIL FACE AREA SQ.FT.	COIL FACE VELOC.FPM	ROWS	REMARKS
HC 1-1	ACADEMIC	FIRST FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2	02345678
HC 2-1	ACADEMIC	SECOND FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2	02345678
HC 3-1	ACADEMIC	THIRD FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2	02345678
HC 4-1	ACADEMIC	FOURTH FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2	02345678
								·					

N (1) AS MANUFACTURED BY "NATIONWIDE COILS INC."

(2) AIR PRESSURE DROP ACROSS COIL SHALL NOT EXCEED 0.30" S.P.

(3) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

 \mathcal{S} (4) COIL SHALL BE MINIMUM 2 ROWS WITH MINIMUM OF 8 FINS PER INCH. (5) 5/8" TUBE AND ALUMINUM FINS.

(6) GALVANIZED PITCHED CASING.

800	1.6	500	2	<u> </u>
8) THE W PERC WITH	VATER COIL CENT (WITH OUT HAVING	ENERGY REC TO RESORT	HANDLE COVERY UI TO CLOS	OUTDOOR AIR QUANTITIES AT 100 NIT IN OPERATION) OF OCCUPANCY ING OUTDOOR AIR INTAKE DAMPERS ON I FREEZE—UP.

	SCF	HED	ULE	OF	CEI	LIN	'G	RADIA	NT	PANELS	
	MODEL			SIZE		CA.	PACITY	DATA 🛛		222	
MARK	Nº O	WIDTH (IN.)	LENGTH (IN.)	FACE AREA (FT²)	ROWS	BTUH	GPM	PRESS DROP Δ HEAD (FT)		REMARKS	
HTP	TYPE LRP	24	96	8	4 MINIMUM	3500	0.5	1 FT. MAX		REFER TO 234	

 $oldsymbol{N}$ (1) AS MANUFACTURED BY "STERLING".

ENTERING WATER TEMPERATURE 122°F, 20° ΔΤ.

INSTALL PER THE MANUFACTURER'S INSTRUCTIONS.

OWS	BTUH	GPM	PRESS DROP ∆ HEAD (FT)	REMARKS
4 IIMUM	3500	0.5	1 FT. MAX	REFER TO 234

(4) CEILING GRID MOUNTED PANEL.

				SCI	HEDULE	OF	EXH	AUS	T FA	INS			
MARK	BUILDING	SERVICE	LOCATION	MODEL #①	TYPE	CFM	EXT. S.P. IN H ₂ O	RPM	HP (WATTS)	ELECTRIC V/PH/HZ	SIZE (IN)	WEIGHT (LBS.)	REMARKS
EF 1	ACADEMIC	ART STORAGE/ SCIENCE PREP ROOM	ROOF	G-097-VG	CENTRIFUGAL	250	0.50	1550	1/4	120/1/60	19x19x24	60	REFER TO 23
EF 2	ACADEMIC	FIRST FLOOR RECEIVING TOILET	CEILING	SP-A130-VG	CEILING CABINET	100	0.25	960	(25)	120/1/60	14x11x9	15	REFER TO 26
EF 3	ACADEMIC	FIRST FLOOR RECEIVING	RECEIVING	CSPA-A390-VG	IN-LINE CENTRIFUGAL	200	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO 26
EF 4	ACADEMIC	FIRST FLOOR LOADING DOCK	LOADING DOCK	CSPA-A390-VG	IN-LINE CENTRIFUGAL	200	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO 25
EF 5	ACADEMIC	FIRST FLOOR KITCHEN HOOD	ROOF	CUBE-200HP	UP-BLAST CENTRIF.	4000	2.0	1600	3.0	208/3/60	30x30x28	150	REFER TO 245
EF 6	ACADEMIC	FIRST/SECOND FLOOR TOILET EAST	ROOF	G-097-VG	CENTRIFUGAL	200	0.50	1550	1/4	120/1/60	19x19x24	60	REFER TO 23
EF 7	ACADEMIC	FIRST FLOOR NURSE TOILET/JAN. CLST.	CEILING	CSPA-A125	IN-LINE CENTRIFUGAL	150	0.25	980	(23)	120/1/60	13x10x9	20	REFER TO 26
EF 8	ACADEMIC	FIRST FLOOR FACULTY TOILETS	CEILING	CSPA-A390-VG	IN-LINE CENTRIFUGAL	300	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO 26
EF 9	ACADEMIC	FIRST/SECOND FLR. TOILETS/JAN. CLST. WEST	ROOF	G-097-VG	CENTRIFUGAL	250	0.50	1580	1/4	120/1/60	19x19x24	60	REFER TO 23
EF 10	ACADEMIC	FIRST FLOOR FACULTY KITCHENETTE	CEILING	CSPA-A390-VG	IN-LINE CENTRIFUGAL	300	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO 26
EF 11	ACADEMIC	SECOND FLOOR TECHNOLOGY/MAKER SPACE	ROOF	G-097-VG	CENTRIFUGAL	250	0.50	1580	1/4	120/1/60	19x19x24	60	REFER TO 23
EF 12	COMMUNITY	STORAGE	CEILING	CSPA-A390-VG	IN-LINE CENTRIFUGAL	200	0.50	1550	(98)	120/1/60	14x12x12	25	REFER TO 26
EF 13	COMMUNITY	1ST FLOOR TOILETS	ROOF	G-098-VG	CENTRIFUGAL	350	0.50	1200	1/4	120/1/60	19x19x24	60	REFER TO 23
<u>EF</u> 14	ACADEMIC	FIRST FLOOR NURSE	CEILING	CSPA-A390-VG	IN-LINE CENTRIFUGAL	250	0.50	1550	(98)	120/1/60	14x12x12	25	REFER TO 26

 $\stackrel{N}{\sim}$ (1) AS MANUFACTURED BY "GREENHECK".

(2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

3 PROVIDE ROOF CURB, FACTORY MOUNTED NEMA 3R DISCONNECT, INTERNALLY MOUNTED VARIABLE SPEED CONTROLLER AND MOTORIZED DAMPER.

PROVIDE ROOF CURB WITH VENTED EXTENSION, HINGED BASE KIT, AUTOMATIC BELT TENSIONER, WEATHER PROOF FACTORY MOUNTED DISCONNECT SWITCH,

UL 762 LISTING, GREASE TROUGH. INDOOR VFD AND AUTOMATED CONTROLS (GREENHECK VARI-FLOW AIR MANAGEMENT SYSTEM, OR EQUAL). FAN OPERATION MUST BE INTERLOCKED WITH CAFETERIA UNIT MAKE-UP AIR CONTROLS. PROVIDE ONE WALL MOUNTED EMERGENCY ON/OFF SWITCH TO DEACTIVATE EXHAUST FAN AND MAKE-UP AIR UNIT SUPPLY FAN. LABEL FAN SWITCH AS

FOLLOWS: "EMERGENCY EXHAUST FAN/MAKE-UP AIR UNIT SHUT DOWN". 6 PROVIDE VIBRATION ISOLATORS, BACKDRAFT DAMPER, SPEED CONTROL, DISCONNECT SWITCH.

		SCHED	ULE (OF REGIS	STERS	AND	DIFFUS	SERS
MARK	TYPE	SERVICE	MODEL No. 1	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	TYPE	REMARKS
A	CEILING DIFFUSER	SUPPLY	SCD	4-WAY	OPPOSED BLADE	PER ARCH.	LAY IN	REFER TO 236
B	CEILING REGISTER	RETURN	635	_			LAY IN	REFER TO 237
C	CEILING REGISTER	EXHAUST	635	-			LAY IN	REFER TO 237
D	SIDEWALL REGISTER	EXHAUST	96	_			SURFACE	REFER TO 2347
E	SIDEWALL REGISTER	SUPPLY	920	DOUBLE DEFLECTION	•		SURFACE	REFER TO 2346
F	CIRCULAR DIFFUSER	SUPPLY	RCDA	360 DEGREE ADJUSTABLE THROW	BUTTERFLY		FREE HANG	REFER TO 23456
G	SIDEWALL REGISTER	RETURN	96	-	OPPOSED BLADE		SURFACE	REFER TO 2347

N (1) AS MANUFACTURED BY "PRICE".

PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES AND DIMENSIONS WITH ARCHITECT.

4) STEEL, HEAVY DUTY TYPE. 5 EQUALIZER GRID

SUPPLY NECK SIZE PER CFM RANGE RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 500 fpm) 6x6 9x9 12x12 15x15 18x18 21X21 24X24 6x6 8X8 10X10 12X12 14X14 16X16 18X18 24X24

	SCH	EDULE OF						ECOV	ERY	/N	DOOR UNITS
	GENE	TRAL DATA	SUP	PLY FAI	V <i>DATA</i>		LING COIL DA	TA 3	HEATIN		REMARKS
1ARK	LOCATION	MODEL No. 1		MOTOR (AMPS)	SERVICE	TOTAL CAP BTU/HR	BTU/HR	TEMP. DB/WB	TOTAL CAP. BTU/HR	AIR TEMP	
FC A	CEILING	ARNU053TRD4	265	0.20	208/1/60	5,500	4,100	80 67	6,100	70	REFER TO 2345
FC B		ARNU073TRD4	265	0.20		7,500	5,750		8,500		REFER TO 2345
FC C		ARNU093TRD4	283	0.20		9,600	7,100		10,900		REFER TO 2345
FCDD		ARNU123TRD4	307	0.20		12,300	9,100		13,600		REFER TO 2345
FC E		ARNU153TNA4	530	0.56		15,400	11,400		17,100		REFER TO 2345
FC F		ARNU183TNA4	565	0.56		19,100	14,200		21,500		REFER TO 234 5
FC G		ARNU243TNA4	742	0.56		24,200	17,900		27,300		REFER TO 234 5
FC H		ARNU283TMA4	812	1.3		28,000	20,700		31,500		REFER TO 2345
FC J		ARNU363TMA4	918	1.3		36,200	26,800		40,600	Ш	REFER TO 2345
FC J		ARNU423TMC4	1,060	1.3		42,000	31,000		43,800		REFER TO 2345
FC K		ARNU123M2A4	512	2.3		12,300	9,100		13,600		REFER TO 2345
FC		ARNU243M2A4	512	2.3		24,200	17,900		27,300		REFER TO 234 5
FC M	V	ARNU283M2A4	1,250	2.3		28,000	20,700		31,500		REFER TO 23456
FC N	FLOOR MOUNT	ARNU24CFA4	635	0.97	—	24,200	17,800	 	27,300		REFER TO 23456

 $egin{array}{c} N & \circlearrowleft \\ O & \circlearrowleft \\ T & \circlearrowleft \end{array}$ AS MANUFACTURED BY "LG." $\begin{array}{c} O & \circlearrowleft \\ O & \circlearrowleft \end{array}$ INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

E 3 BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.

5 PROVIDE MOUNTING HARDWARE, VIBRATION ISOLATORS, DISCONNECT AND HARDWIRED REMOTE WALL MOUNTED CONTROLLER/THERMOSTAT.

THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATETWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.

PROVIDE FACTORY MOUNTED INTEGRAL CONDENSATE PUMP, CHECK VALVE, ANTI SWEAT SLEEVE AND AUTO SHUTDOWN OVERFLOW SWITCH.

PROVIDE FACTORY MOUNTED INTEGRAL CONDENSATE PUMP, CHECK VALVE, PROVIDE FACTORY MOUNTED INTEGRAL CONDENSATE PUMP, CONDENSATE DRAIN PIPING, PIPING ENCLOSURE KIT AND AUTO SHUTDOWN OVERFLOW SWITCH.

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE YONKERS JOINT SCHOOL

121 McLEAN AVENUE YONKERS, NY 10705

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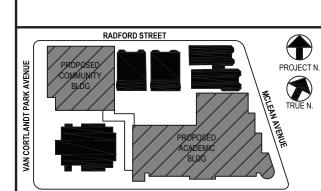
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4 11/01/2021 ISSUED TO BID 3 07/14/2021 CONSTRUCTION DOCS-NYSED

2 12/15/2020 DESIGN DEVELOPMENT 1 08/31/2020 SCHEMATIC DESIGN
No. Date Issue

SCHEDULES

2019-1026 11/18/20

rawn / Checked AS NOTED BGA/BGA Sheet Number

H401

	ACAD	EMIC BUI	LDING THIRD	FLOOR - SC	HEDULE OF MI	NIMUM VENTIL	ATION RC	OM FLOW F	RATES		
		Α	В	С	D	E	F	G	н	ı	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000 SQ.FT.) /# OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A×B)÷1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
4th Grade Classroom- 2 301	CLASSROOM (AGES 9+)	805	35	10	0.12	0	29	387	0.8	483	o
4th Grade Classroom- 1 302	CLASSROOM (AGES 9+)	810	35	10	0.12	0	29	387	0.8	484	o
S <i>GI</i> 303	OFFICE SPACE	275	5	5	0.06	o	2	27	0.8	33	o
Janitor's Closet 303a	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	30	o	o	o	1	0	o	0.8	o	30
3rd Grade Classroom- 1 304	CLASSROOM (AGES 9+)	790	35	10	0.12	0	28	375	0.8	469	o
3rd Grade Classroom- 2 305	CLASSROOM (AGES 9+)	820	35	10	0.12	О	29	388	0.8	486	o
3rd Grade Classroom- 3 306	CLASSROOM (AGES 9+)	855	35	10	0.12	o	30	403	0.8	503	o
Mech 307	WOOD/METAL SHOP	450	20	10	0.18	0.5	9	171	0.8	214	225
Data 307a	COMPUTER LAB	65	25	10	0.12	0	2	28	0.8	35	0
Girl's Toilet 308	CELL W/TOILET	210	25	5	0.12	1	6	55	0.8	69	210
Boy's Toilet 309	CELL W/TOILET	215	25	5	0.12	1	6	56	0.8	70	215
5th Grade Classroom- 2 310	CLASSROOM (AGES 9+)	790	35	10	0.12	0	28	375	0.8	469	o
5th Grade Classroom- 3 311	CLASSROOM (AGES 9+)	845	35	10	0.12	o	30	401	0.8	502	o
Office 312	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
SGI 313	OFFICE SPACE	440	5	5	0.06	0	3	41	0.8	52	0
Art 314	ART CLASSROOM	1020	20	10	0.18	0.7	21	394	0.8	492	714
Storage 314a	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	90	2	5	0.06	0	1	10	0.8	13	o
Kiln 314b	ART CLASSROOM	50	20	10	0.18	0.7	1	19	0.8	24	35
SGI/Collab 315	OFFICE SPACE	300	5	5	0.06	0	2	28	0.8	35	0
Vestibule 316	LOBBIES/PREFUNCTION	80	30	7.5	0.06	0	3	27	0.8	34	0
Counseling 316a	OFFICE SPACE	155	5	5	0.06	0	1	14	0.8	18	0
Counseling 316b	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
Counseling 316c	OFFICE SPACE	150	5	5	0.06	0	1	14	0.8	18	0
5th Grade Classroom- 1 317	CLASSROOM (AGES 9+)	795	35	10	0.12	0	28	375	0.8	469	0
4th Grade Classroom- 3 318	CLASSROOM (AGES 9+)	805	35	10	0.12	o	29	387	0.8	483	o
Music 319	MUSIC/THEATRE/DANCE	990	35	10	0.06	0	35	409	0.8	512	0
Vestibule 319a	LOBBIES/PREFUNCTION	65	30	7.5	0.06	0	2	19	0.8	24	0
Music Storage 319b	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	105	2	5	0.06	0	1	11	0.8	14	o
Vestibule 319c	LOBBIES/PREFUNCTION	- 55	30	7.5	0.06	0	2	18	0.8	23	0
Toilet 320	CELL W/TOILET	65	25	5	0.12	1	2	18	0.8	22	65
Toilet 321	CELL W/ TOILET	65	25	5	0.12	1	2	18	0.8	22	65
Corridor C301	CORRIDORS	2029	0	0	0.06	0	0	122	0.8	152	0
Corridor C302	CORRIDORS	435	0	0	0.06	0	0	26	0.8	33	0

ROOM NAME/NUMBER 6-8 Grade Classroom- 5 401 6-8 Grade Classroom- 4 402 CLASSROOM (AGE Storage 402a CLASSROOM (AGE MATERIALS SGI 403 6-8 Grade Classroom- 1 404 6-8 Grade Classroom- 2 405 6-8 Grade Classroom- 2 405 Gerade Classroom- 3 406 Mech 407 Data 407a CLASSROOM (AGE Mech 407 WOOD/METAL SF Data 407a CLASSROOM (AGE Gerade Classroom- 9 410 6-8 Grade Classroom- 9 410 CLASSROOM (AGE CLASSRO					3112B022 01 111	INIMUM VENTI					
6-8 Grade Classroom- 5 401 6-8 Grade Classroom- 4 402 Storage 402a CLASSROOM (AGE ROOMS FOR DE MATERIALS SGI 403 6-8 Grade Classroom- 1 404 6-8 Grade Classroom- 2 405 6-8 Grade Classroom- 2 405 6-8 Grade Classroom- 3 406 Mech 407 Data 407a CLASSROOM (AGE Boy's Toilet 408 CLASSROOM (AGE CLASSRO		A	В	С	D	E	F	G	Н	1	
6-8 Grade Classroom- 4 402 Storage 402a Storage 402a CLASSROOM (AGE ROOMS FOR DE MATERIALS SGI 403 G-8 Grade Classroom- 1 404 6-8 Grade Classroom- 2 405 CLASSROOM (AGE CLASSROOM (AGE CLASSROOM (AGE Mech 407 Data 407a Girl's Toilet 408 Boy's Toilet 409 G-8 Grade Classroom- 9 410 6-8 Grade Classroom- 10 411 Office 412 OFFICE SPACE OT/PT 413 Science 414 SCIENCE LABORAT Prep 414a SCIENCE LABORAT SGI/Collab 415 Speech 416 G-8 Grade Classroom- 8 417 G-8 Grade Classroom- 8 417 G-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE CLASSROOM (A	CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A×B)÷1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
Storage 402a Storage 402a OCCUPIABLE STOR ROOMS FOR DE MATERIALS SGI 403 OFFICE SPACE 6-8 Grade Classroom- 2 405 CLASSROOM (AGE CLASSROOM (AGE CLASSROOM (AGE CLASSROOM (AGE Mech 407 MOOD/METAL SE Data 407a COMPUTER LA Girl's Toilet 408 CELL W/ TOILE Boy's Toilet 409 CLASSROOM (AGE CLASSROOM (AGE CLASSROOM (AGE OT/PT 413 CLASSROOM (AGE CLASSRO	(AGES 9+)	775	35	10	0.12	0	28	373	0.8	466	o
Storage 402a SGI 403 G-8 Grade Classroom- 1 404 G-8 Grade Classroom- 2 405 G-8 Grade Classroom- 3 406 Mech 407 Data 407a Girl's Toilet 408 Boy's Toilet 409 G-8 Grade Classroom- 9 410 G-8 Grade Classroom- 10 411 Office 412 OT/PT 413 DAYCARE SICKRO Science 414 SCIENCE LABORAT Prep 414a SCIENCE LABORAT SGI/Collab 415 Speech 416 G-8 Grade Classroom- 8 417 G-8 Grade Classroom- 8 417 G-8 Grade Classroom- 8 417 G-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE CLASSROOM (A	(AGES 9+)	775	35	10	0.12	0	28	373	0.8	466	0
6-8 Grade Classroom- 1 404 6-8 Grade Classroom- 2 405 CLASSROOM (AGE 6-8 Grade Classroom- 3 406 Mech 407 WOOD/METAL SH Data 407a COMPUTER LA Girl's Toilet 408 CELL W/ TOILE Boy's Toilet 409 CLASSROOM (AGE 6-8 Grade Classroom- 9 410 CLASSROOM (AGE 0 CLASSROOM (R DRY	100	2	5	0.06	o	1	11	0.8	14	0
1 404 6-8 Grade Classroom- 2 405 6-8 Grade Classroom- 3 406 Mech 407 WOOD/METAL SH Data 407a COMPUTER LA Girl's Toilet 408 CELL W/ TOILE Boy's Toilet 409 CLASSROOM (AGE 6-8 Grade Classroom- 9 410 6-8 Grade Classroom- 10 411 Office 412 OFFICE SPACE OT/PT 413 DAYCARE SICKRO Science 414 SCIENCE LABORAT Prep 414a SCIENCE LABORAT SGI/Collab 415 OFFICE SPACE Speech 416 CLASSROOM (AGE 6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE Toilet 419a CELL W/ TOILE Special Ed. Resource CLASSROOM (AGE CLAS	PACE	200	5	5	0.06	0	1	17	0.8	21	0
2 405 6-8 Grade Classroom- 3 406 Mech 407 Data 407a Girl's Toilet 408 Boy's Toilet 409 6-8 Grade Classroom- 9 410 6-8 Grade Classroom- 10 411 Office 412 Office 412 OT/PT 413 DAYCARE SICKRO Science 414 SCIENCE LABORAT Prep 414a SCIENCE LABORAT SGI/Collab 415 Speech 416 6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE	(AGES 9+)	770	35	10	0.12	o	27	362	0.8	453	o
Mech 407 WOOD/METAL SH Data 407a COMPUTER LA Girl's Toilet 408 CELL W/ TOILE Boy's Toilet 409 CELL W/ TOILE 6-8 Grade Classroom- 9 410 CLASSROOM (AGE 07/PT 413 DAYCARE SICKRO Science 414 SCIENCE LABORAT Prep 414a SCIENCE LABORAT SGI/Collab 415 OFFICE SPACE Speech 416 CLASSROOM (AGE 6-8 Grade Classroom- 8 417 C-8 Grade Classroom- 8 417 CLASSROOM (AGE	(AGES 9+)	780	35	10	0.12	o	28	374	0.8	467	0
Data 407a Girl's Toilet 408 Boy's Toilet 409 6-8 Grade Classroom- 9 410 6-8 Grade Classroom- 10 411 Office 412 OT/PT 413 Science 414 Prep 414a SCIENCE LABORAT SGI/Collab 415 Speech 416 6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE CLASSROOM	(AGES 9+)	830	35	10	0.12	o	30	400	0.8	500	o
Girl's Toilet 408 Boy's Toilet 409 6-8 Grade Classroom- 9 410 6-8 Grade Classroom- 10 411 Office 412 OFFICE SPACE OT/PT 413 DAYCARE SICKRO Science 414 SCIENCE LABORAT Prep 414a SCIENCE LABORAT SGI/Collab 415 OFFICE SPACE Speech 416 6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE Toilet 419a CLASSROOM (AGE CLASSROOM (AL SHOP	440	20	10	0.18	0.5	9	169	0.8	212	220
Boy's Toilet 409 6-8 Grade Classroom- 9 410 6-8 Grade Classroom- 10 411 Office 412 OFFICE SPACE OT/PT 413 DAYCARE SICKRO Science 414 SCIENCE LABORAT Prep 414a SCIENCE LABORAT SGI/Collab 415 Speech 416 6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE CLASSROOM	R LAB	65	25	10	0.12	0	2	28	0.8	35	0
6-8 Grade Classroom- 9 410 6-8 Grade Classroom- 10 411 Office 412 OFFICE SPACE OT/PT 413 DAYCARE SICKRO Science 414 SCIENCE LABORAT Prep 414a SCIENCE LABORAT SGI/Collab 415 OFFICE SPACE Speech 416 CLASSROOM (AGE 6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE CLASSROOM (AG	OILET	200	25	5	0.12	1	5	49	0.8	61	200
9 410 6-8 Grade Classroom- 10 411 Office 412 OFFICE SPACE OT/PT 413 DAYCARE SICKRO Science 414 SCIENCE LABORAT Prep 414a SCIENCE LABORAT SGI/Collab 415 OFFICE SPACE Speech 416 CLASSROOM (AGE 6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE Toilet 419a CELL W/TOILE Special Ed. Resource	OILET	205	25	5	0.12	1	6	55	0.8	68	205
10 411 Office 412 OFFICE SPACE OT/PT 413 DAYCARE SICKRO Science 414 SCIENCE LABORAT Prep 414a SCIENCE LABORAT SGI/Collab 415 OFFICE SPACE Speech 416 CLASSROOM (AGE 6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE Toilet 419a CELL W/ TOILE Special Ed. Resource	(AGES 9+)	780	35	10	0.12	o	28	374	0.8	467	o
Science 414 SCIENCE LABORAT Prep 414a SCIENCE LABORAT SGI/Collab 415 OFFICE SPACE Speech 416 CLASSROOM (AGE 6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE Toilet 419a CELL W/TOILE Special Ed. Resource	(AGES 9+)	835	35	10	0.12	o	30	400	0.8	500	0
Science 414 Prep 414a SCIENCE LABORAT SGI/Collab 415 Speech 416 6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE Toilet 419a Special Ed. Resource CLASSROOM (AGE	PACE	110	5	5	0.06	0	1	12	0.8	15	0
Prep 414a SCIENCE LABORAT SGI/Collab 415 OFFICE SPACE Speech 416 CLASSROOM (AGE 6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE Toilet 419a CELL W/ TOILE Special Ed. Resource	CKROOM	435	25	10	0.18	0	11	188	0.8	235	0
SGI/Collab 415 Speech 416 CLASSROOM (AGE 6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE Toilet 419a CLASSROOM (AGE CLASSROOM (AGE CLASSROOM (AGE CLASSROOM (AGE	RATORIES	940	25	10	0.18	1	24	409	0.8	512	940
Speech 416 CLASSROOM (AGE 6-8 Grade Classroom- 8 417 CLASSROOM (AGE 6-8 Grade Classroom- 7 418 CLASSROOM (AGE Toilet 419a CELL W/TOILE Special Ed. Resource	RATORIES	150	25	10	0.18	1	4	67	0.8	84	150
6-8 Grade Classroom- 8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE Toilet 419a CELL W/TOILE Special Ed. Resource		300	5	5	0.06	0	2	28	0.8	35	0
8 417 6-8 Grade Classroom- 7 418 Special Education 419 CLASSROOM (AGE Toilet 419a CELL W/ TOILE Special Ed. Resource	(AGES 9+)	495	35	10	0.12	0	18	239	0.8	299	0
7 418 Special Education 419 CLASSROOM (AGE Toilet 419a CELL W/ TOILE Special Ed. Resource CLASSROOM (AGE	(AGES 9+)	770	35	10	0.12	o	27	362	0.8	453	o
Toilet 419a CELL W/ TOILE Special Ed. Resource CLASSROOM (AGE		770	35	10	0.12	O	27	362	0.8	453	o
Special Ed. Resource CLASSROOM (AGE	. ,	770	35	10	0.12	0	27	362	0.8	453	0
	OILET	55	25	5	0.12	1	2	17	0.8	21	55
420 CLASSICOM (ACL	,	360	35	10	0.12	o	13	173	0.8	217	o
Toilet 421 CELL W/ TOILE		60	25	5	0.12	1	2	17	0.8	22	60
JANITOR CLOSE Janitor's Closet 422 TRASH ROOMS RECYCLING	OOMS,	35	o	o	o	1	0	o	0.8	o	35
Toilet 423 CELL W/ TOILE		55	25	5	0.12	1	2	17	0.8	21	55
Corridor C401 CORRIDORS		2785	0	0	0.06	0	0	167	0.8	209	0

	ACA	DEMIC BU	JILDING BASE	MENT - SCH	EDULE OF MINI	IMUM VENTILA	TION ROC	OM FLOW RA	ATES		
		Α	В	С	D	E	F	G	Н	1	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A×B)÷1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
Fire Pump B01	OCCUPIABLE STORAGE ROOMS FOR DRY	280	2	5	0.06	0	1	22	0.8	27	0
Storage B02	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	305	2	5	0.06	0	1	23	0.8	29	o
Сору В03	COMPUTER LAB	295	25	10	0.12	0	8	115	0.8	144	0
Generator B07	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	700	2	5	0.06	0	2	52	0.8	65	o
Electric B08	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	395	2	5	0.06	0	1	29	0.8	36	o
Mechanical Room B09	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	965	2	5	0.06	0	2	68	0.8	85	o
Storage B10	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	400	2	5	0.06	0	1	29	0.8	36	o
Corridor CB01	CORRIDORS	580	0	0	0.06	0	0	35	0.8	44	0
Corridor CB02	CORRIDORS	255	0	0	0.06	0	0	15	0.8	19	0

		Α	В	С	D	E	F	G	Н	1	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A×B)÷1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIM EXHAU AIR FL RAT A×E=0
Vestibule 100	LOBBIES/PREFUNCTION	100	30	7.5	0.06	0	3	29	0.8	36	0
Vestibule 100a	LOBBIES/PREFUNCTION	75	30	7.5	0.06	0	3	27	0.8	34	
Vestibule 100b	LOBBIES/PREFUNCTION	80	30	7.5	0.06	0	3	27	0.8	34	1
Office 101	OFFICE SPACE	185	5	5	0.06	0	1	16	0.8	20	(
Principal 101a	OFFICE SPACE	200	5	5	0.06	0	1	17	0.8	21	(
Toilet 101b	CELL W/ TOILET	40	25	5	0.12	1	1	10	0.8	12	4
Main Office 102	OFFICE SPACE	335	5	5	0.06	0	2	30	0.8	38	
Security 102a	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	
PK-2 103	DAYCARE (AGES 0-4)	905	25	10	0.18	0	23	393	0.8	491	
Toilet 103a	CELL W/ TOILET	55	25	5	0.12	1	2	17	0.8	21	5
PK-1 104	DAYCARE (AGES 0-4)	905	25	10	0.18	0	23	393	0.8	491	
Toilet 104a	CELL W/ TOILET	70	25	5	0.12	1	2	18	0.8	23	7
Conference 105	CONFERENCE/MEETING	210	50	5	0.06	0	11	68	0.8	85	
Waiting 106	BOOKING/WAITING	170	50	7.5	0.06	0	9	78	0.8	97	
Corridor 106a	CORRIDORS	225	0	0	0.06	0	0	14	0.8	17	
Counseling 106b	OFFICE SPACE	95	5	5	0.06	0	1	11	0.8	13	
Counseling 106c	OFFICE SPACE	90	5	5	0.06	0	1	10	0.8	13	
Storage 106d	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	20	2	5	0.06	0	1	6	0.8	8	
Office 106e	OFFICE SPACE	95	5	5	0.06	0	1	11	0.8	13	†
Nurse 106f	OFFICE SPACE	90	5	5	0.06	0	1	10	0.8	13	†
Exam 1 106g	CLASSROOM (AGES 9+)	115	35	10	0.12	0	5	64	0.8	80	
Dentist 106h	SCIENCE LABORATORIES	120	25	10	0.18	1	3	52	0.8	65	1
Data 106j	COMPUTER LAB	20	25	10	0.12	0	1	12	0.8	16	<u> </u>
Toilet 106k	CELL W/ TOILET	75	25	5	0.12	1	2	19	0.8	24	7
Exam 2 106n	CLASSROOM (AGES 9+)	115	35	10	0.12	0	5	64	0.8	80	
Intake 106q	BOOKING/WAITING	115	50	7.5	0.06	0	6	52	0.8	65	<u> </u>
Janitor Closet 106r	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	20	О	О	o	1	0	О	0.8	0	
Faculty 107	KITCHENETTES	480	20	7.5	0.12	0.3	10	133	0.8	166	1
Toilet 107a	CELL W/ TOILET	55	25	5	0.12	1	2	17	0.8	21	,
Toilet 107b	CELL W/ TOILET	70	25	5	0.12	1	2	18	0.8	23	7
Cafeteria/Multi- Purpose 108	CAFETERIA/FAST-FOOD DINING	3625	100	7.5	0.18	o	363	3375	0.8	4219	
Janitor Closet 108a	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	25	О	o	0	1	o	o	0.8	0	;
Boys Toilet 108b	CELL W/ TOILET	135	25	5	0.12	1	4	36	0.8	45	1
Girls Toilet 108c	CELL W/ TOILET	115	25	5	0.12	1	3	29	0.8	36	1
Corridor 108d	CORRIDORS	110	0	0	0.06	0	0	7	0.8	8	
Servery 109	CAFETERIA/FAST-FOOD DINING	420	100	7.5	0.18	0	42	391	0.8	488	
Kitchen 110	KITCHEN (COOKING) OCCUPIABLE STORAGE	435	20	7.5	0.12	0.7	9	120	0.8	150	3
Storage 110c	ROOMS FOR DRY MATERIALS	120	2	5	0.06	o	1	12	0.8	15	
Receiving 111	SHIPPING/RECEIVING	290	2	10	0.12	0	1	45	0.8	56	
Toilet 111a	CELL W/ TOILET	55	25	5	0.12	1	2	17	0.8	21	
Loading Dock 111b	SHIPPING/RECEIVING	210	2	10	0.12	0	1	35	0.8	44	
PK-4 112	DAYCARE (AGES 0-4)	895	25	10	0.18	0	23	391	0.8	489	
Toilet 112a	CELL W/ TOILET	55	25	5	0.12	1	2	17	0.8	21	
PK-3 113	DAYCARE (AGES 0-4)	900	25	10	0.18	0	23	392	0.8	490	
Toilet 113a	CELL W/ TOILET	55	25	5	0.12	1	2	17	0.8	21	
Lobby C101	MAIN ENTRY LOBBIES	→ 860	10	5	0.06	0	9	97	0.8	121	
Corridor C102	CORRIDORS	535	0	0	0.06	0	0	32	0.8	40	
Corridor C103	CORRIDORS	670	0	0	0.06	0	0	40	0.8	50	1
Corridor C104	CORRIDORS	1020	0	О	0.06	0	0	61	0.8	77	

	ACADE	MIC BUILL	DING SECONI	D FLOOR - SC	CHEDULE OF M	INIMUM VENTI	LATION R	OOM FLOW	RATES		
		A	В	С	D	E	F	G	Н	1	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A×B)÷1000=#P	RATE WITHOUT ZONE EFFECTIVENESS FACTOR	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
K-2 201	CLASSROOM (AGES 5-8)	905	25	10	0.12	0	23	339	0.8	423	o
Toilet 201a	CELL W/TOILET	55	25	5	0.12	1	2	17	0.8	21	55
K-1 202	CLASSROOM (AGES 5-8)	910	25	10	0.12	o	23	339	0.8	424	0
Toilet 202a	CELL W/TOILET	65	25	5	0.12	1	2	18	0.8	22	65
SGI 203	OFFICE SPACE	200	5	5	0.06	0	1	17	0.8	21	0
2nd Grade Classroom-1 204	CLASSROOM (AGES 5-8)	790	25	10	0.12	o	20	295	0.8	369	0
2nd Grade Classroom- 2 205	CLASSROOM (AGES 5-8)	820	25	10	0.12	o	21	308	0.8	386	0
2nd Grade Classroom- 3 206	CLASSROOM (AGES 5-8)	855	25	10	0.12	o	22	323	0.8	403	o
Mech 207	WOOD/METAL SHOP	450	20	10	0.18	0.5	9	171	0.8	214	225
Data 207a	COMPUTER LAB	65	25	10	0.12	0	2	28	0.8	35	0
Girls 208	CELL W/TOILET	210	25	5	0.12	1	6	55	0.8	69	210
Boys 209	CELL W/TOILET	215	25	5	0.12	1	6	56	0.8	70	215
1st Grade Classroom- 2 210	CLASSROOM (AGES 5-8)	795	25	10	0.12	o	20	295	0.8	369	o
1st Grade Classroom- 3 211	CLASSROOM (AGES 5-8)	835	25	10	0.12	o	21	310	0.8	388	o
A.P. Office 212	OFFICE SPACE	120	5	5	0.06	0	1	12	0.8	15	0
Office 213	OFFICE SPACE	105	5	5	0.06	0	1	11	0.8	14	0
SGI 214	OFFICE SPACE	270	5	5	0.06	0	2	26	0.8	33	0
Library/Learning Commons 215	LIBRARIES	1395	10	5	0.12	o	14	237	0.8	297	o
Technology/Maker Space 216	COMPUTER LAB	216	25	10	0.12	o	6	86	0.8	107	o
1st Grade Classroom- 1 217	CLASSROOM (AGES 5-8)	840	25	10	0.12	o	21	311	0.8	389	o
Toilet 217a	CELL W/TOILET	55	25	5	0.12	1	2	17	0.8	21	55
K-3 218	CLASSROOM (AGES 5-8)	900	25	10	0.12	0	23	338	0.8	423	0
Toilet 218a	CELL W/ TOILET	55	25	5	0.12	1	2	17	0.8	21	55
	CLASSROOM (AGES 5-8)	350	25	10	0.12	0	9	132	0.8	165	0
Special Education 220	· · · ·	835	25	10	0.12	0	21	310	0.8	388	0
Toilet 220a	CELL W/TOILET	55	25	5	0.12	1	2	17	0.8	21	55
Toilet 221	CELL W/TOILET	55	25	5	0.12	1	2	17	0.8	21	55
Janitor's Closet 222	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	35	0	o	o	1	o	0	0.8	o	35
Toilet 223	CELL W/TOILET	55	25	5	0.12	1	2	17	0.8	21	55
Corridor C201	CORRIDORS	1880	0	0	0.06	0	0	113	0.8	141	0
Corridor C202	CORRIDORS	610	0	0	0.06	0	О	37	0.8	46	0

YONKERS JOINT SCHOOL CONSTRUCTION BOARD 121 McLEAN AVENUE YONKERS, NY 10705



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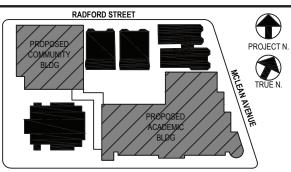
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CONSTRUCTION DOCUMENTS



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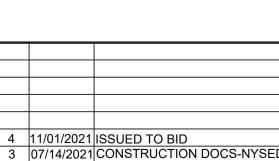
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Sheet Title

SCHEDULES

Job No. Date 2019-1026 11/18/20
Scale Drawn / Checked

AS NOTED BGA/BGA

Sheet Number

H402

	СОММ	UNITY BUI	ILDING LOWE	R LEVEL - SO	CHEDULE OF M	IINIMUM VENTI	LATION R	OOM FLOW	RATES		
		A	В	С	D	E	F	G	Н	1	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A×B)÷1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
P.E. Office GB03	OFFICE SPACE	110	5	5	0.06	o	1	12	0.8	15	0
Toilet GB04	CELL W/ TOILET	110	25	5	0.12	1	3	28	0.8	35	110
Coach's Office GB05	OFFICE SPACE	110	5	5	0.06	О	1	12	0.8	15	o
Storage GB06	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	255	2	5	0.06	o	1	20	0.8	25	o
Mechanical Room GB07	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	420	2	5	0.06	o	1	30	0.8	38	o
Storage GB08	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	160	2	5	0.06	О	1	15	0.8	18	0
Girls Locker Room GB09	LOCKER ROOMS FOR ATHLETIC, INDUSTRIAL, AND HEALTHCARE	345	o	o	0	0.5	0	0	0.8	o	173
Girls Toilet GB10	CELL W/ TOILET	225	25	5	0.12	1	6	57	0.8	71	225
Boys Toilet GB11	CELL W/ TOILET	220	25	5	0.12	1	6	56	0.8	71	220
Boys Locker Room GB12	LOCKER ROOMS FOR ATHLETIC, INDUSTRIAL, AND HEALTHCARE FACILITIES	345	o	0	o	0.5	o	0	0.8	o	173
Vestibule GC01	CORRIDORS	290	0	0	0.06	0	0	17	0.8	22	0

		Α	В	С	D	Ε	F	G	Н	I	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A×B)÷1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
Corridor GC01	CORRIDORS	927	0	0	0.06	o	o	56	0.8	70	o
Security Office G102	OFFICE SPACE	95	5	5	0.06	o	1	11	0.8	13	o
Toilet G107	CELL W/ TOILET	58	25	5	0.12	1	2	17	0.8	21	58
Toilet 2	OFFICE SPACE	58	5	5	0.06	0	1	8	0.8	11	0
Toilet 3	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	58	2	5	0.06	О	1	8	0.8	11	0
Janitor Closet G107	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	37	2	5	0.06	О	1	7	0.8	9	0
Gym/Auditorium G103	MULTIPURPOSE ASSEMBLY	5890	120	5	0.06	о	707	3888	0.8	4861	0
Stage G104	LOCKER ROOMS FOR ATHLETIC, INDUSTRIAL, AND HEALTHCARE FACILITIES	467	0	o	o	0.5	o	o	0.8	o	234

	СОММ	UNITY BU	LDING UPPE	R LEVEL - SC	HEDULE OF M	INIMUM VENTI	LATION R	OOM FLOW	RATES		
		Α	В	С	D	E	F	G	Н	1	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000 SQ.FT.) / # OF FIXTURES		AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A×B)÷1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
Gym/Auditorium G103	MULTIPURPOSE ASSEMBLY	5940	120	5	0.06	o	713	3921	0.8	4902	0
Stage G104	STAGES, STUDIOS	490	70	10	0.06	o	35	379	0.8	474	0

YONKERS JOINT SCHOOL CONSTRUCTION BOARD 121 McLEAN AVENUE YONKERS, NY 10705



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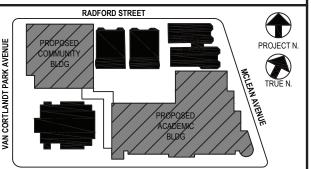


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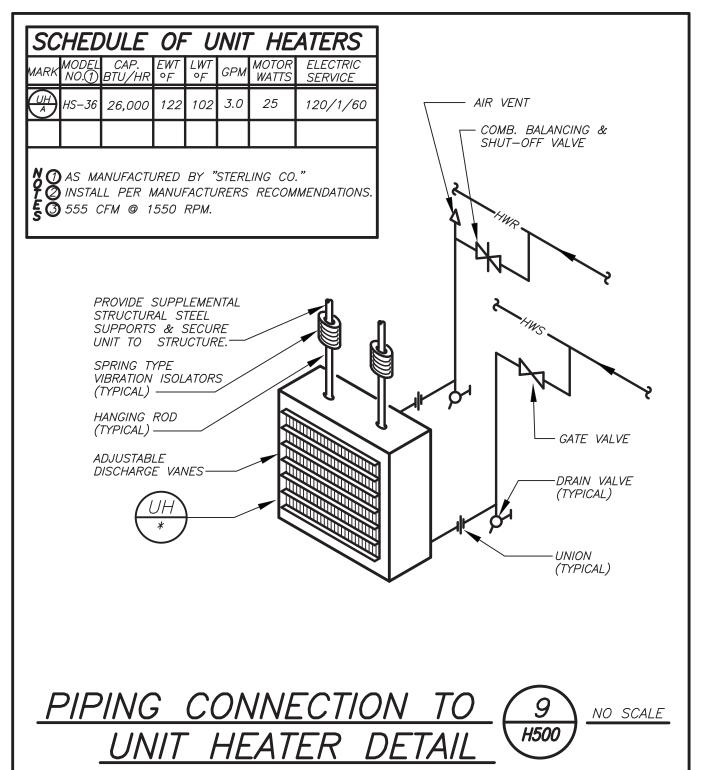
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1 08/31/2020 SCHEMATIC DESIGN
No. Date Issue
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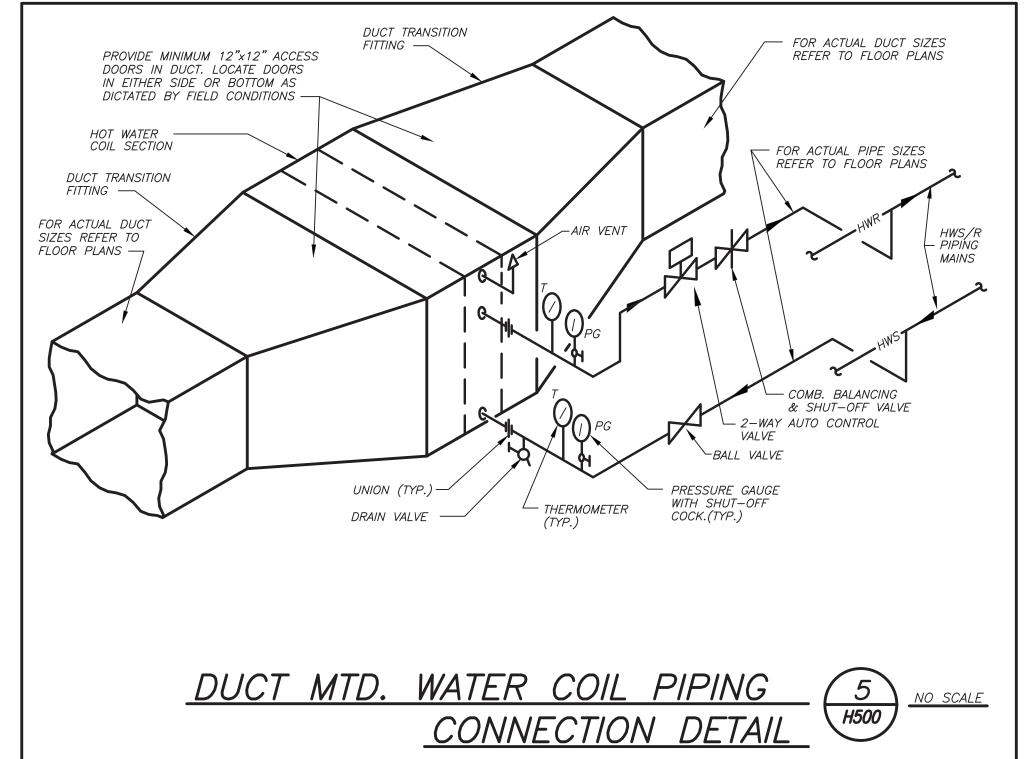
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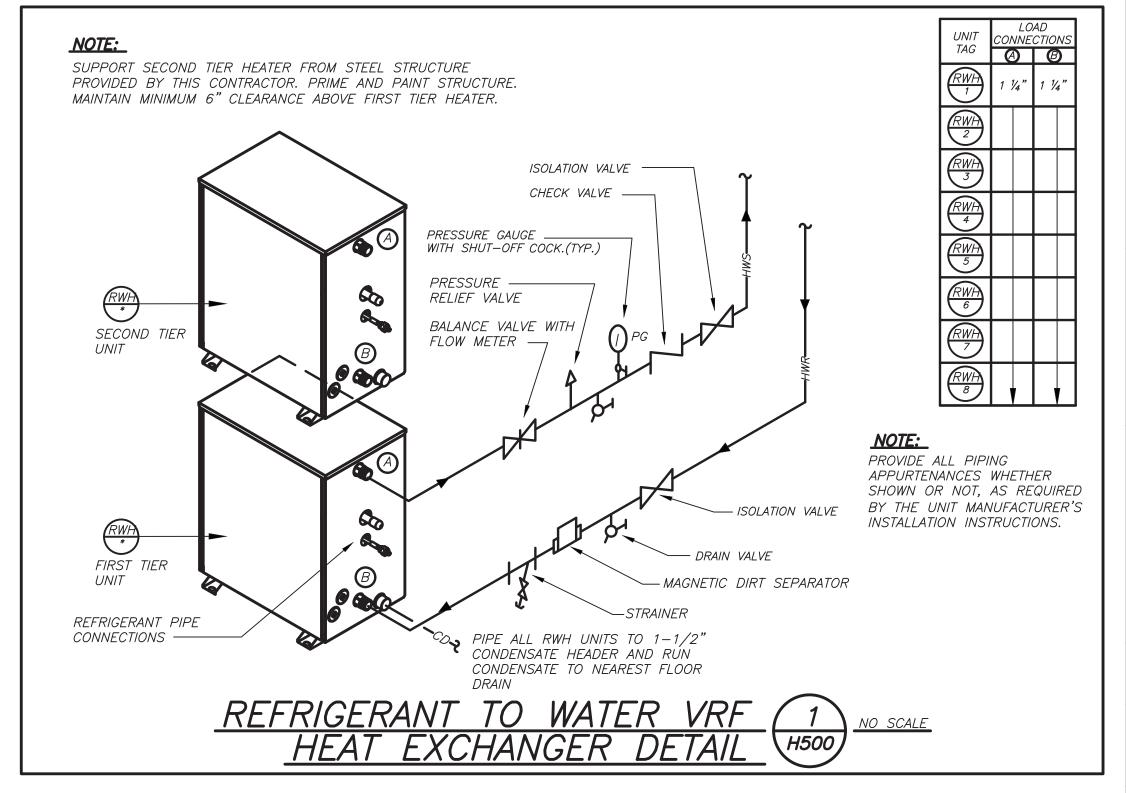
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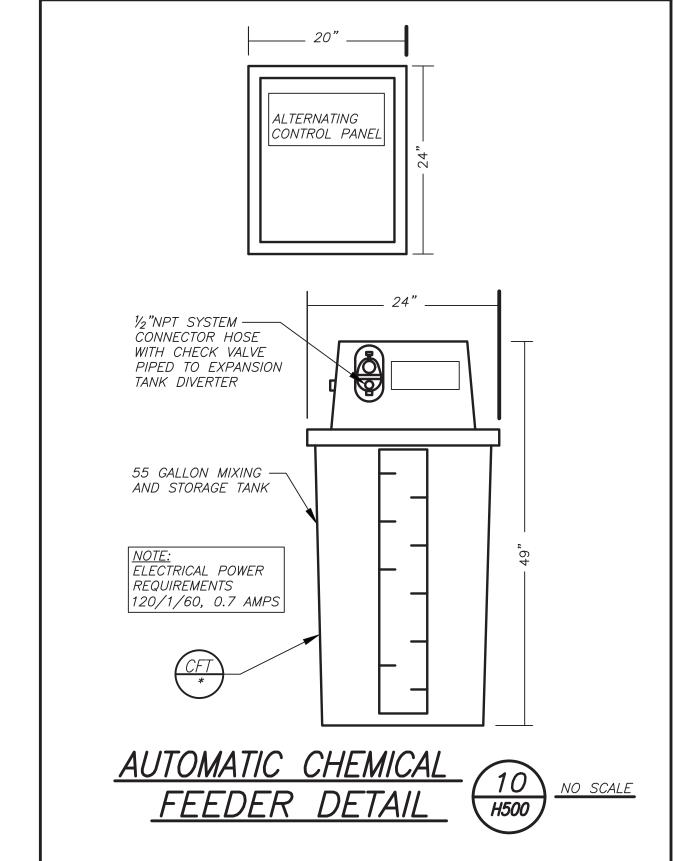
BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

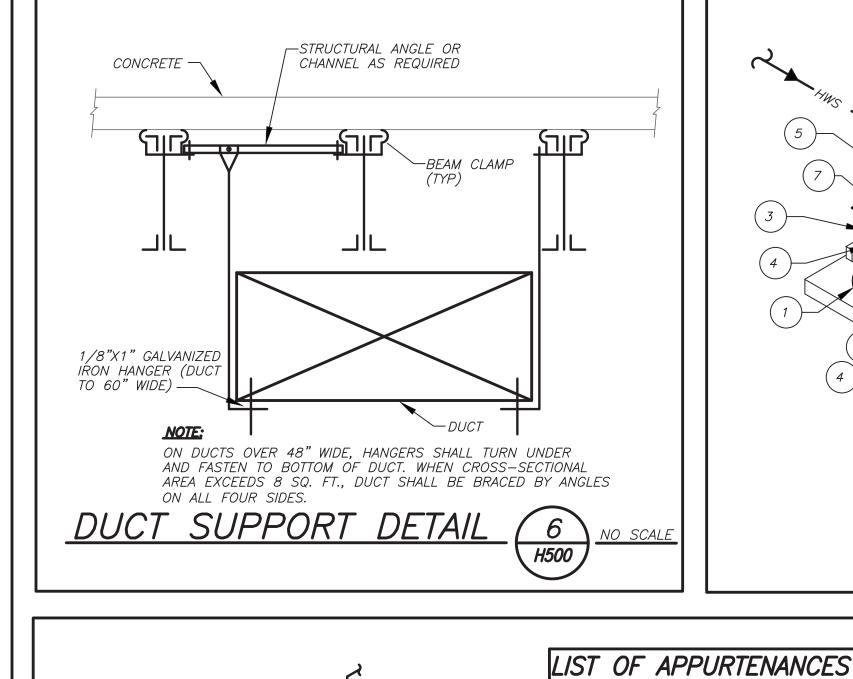
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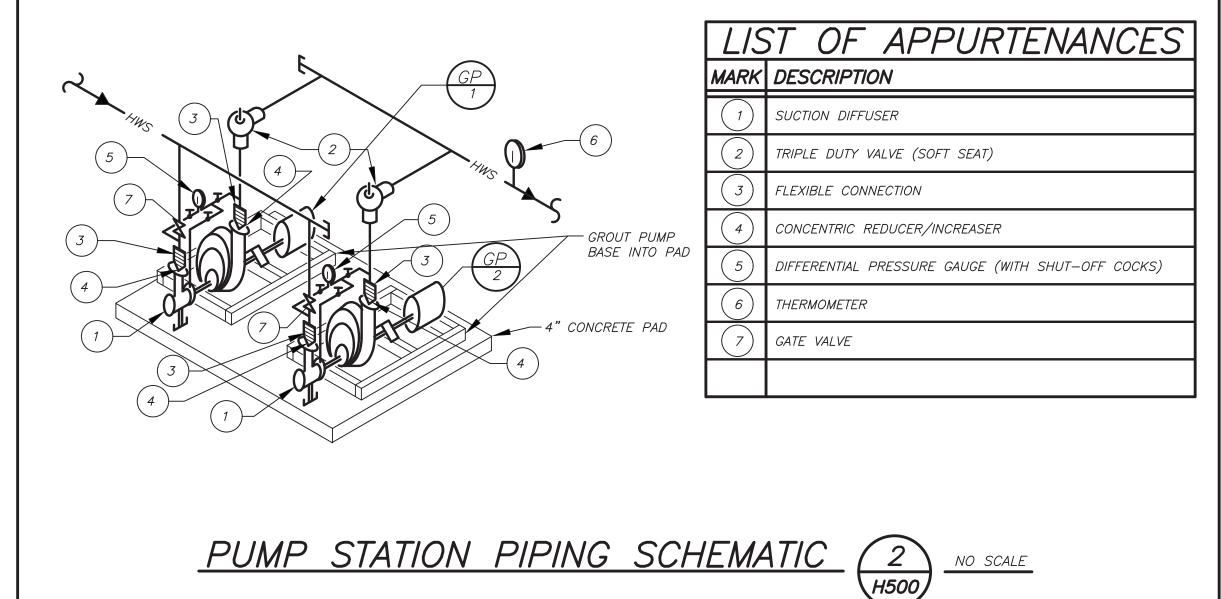


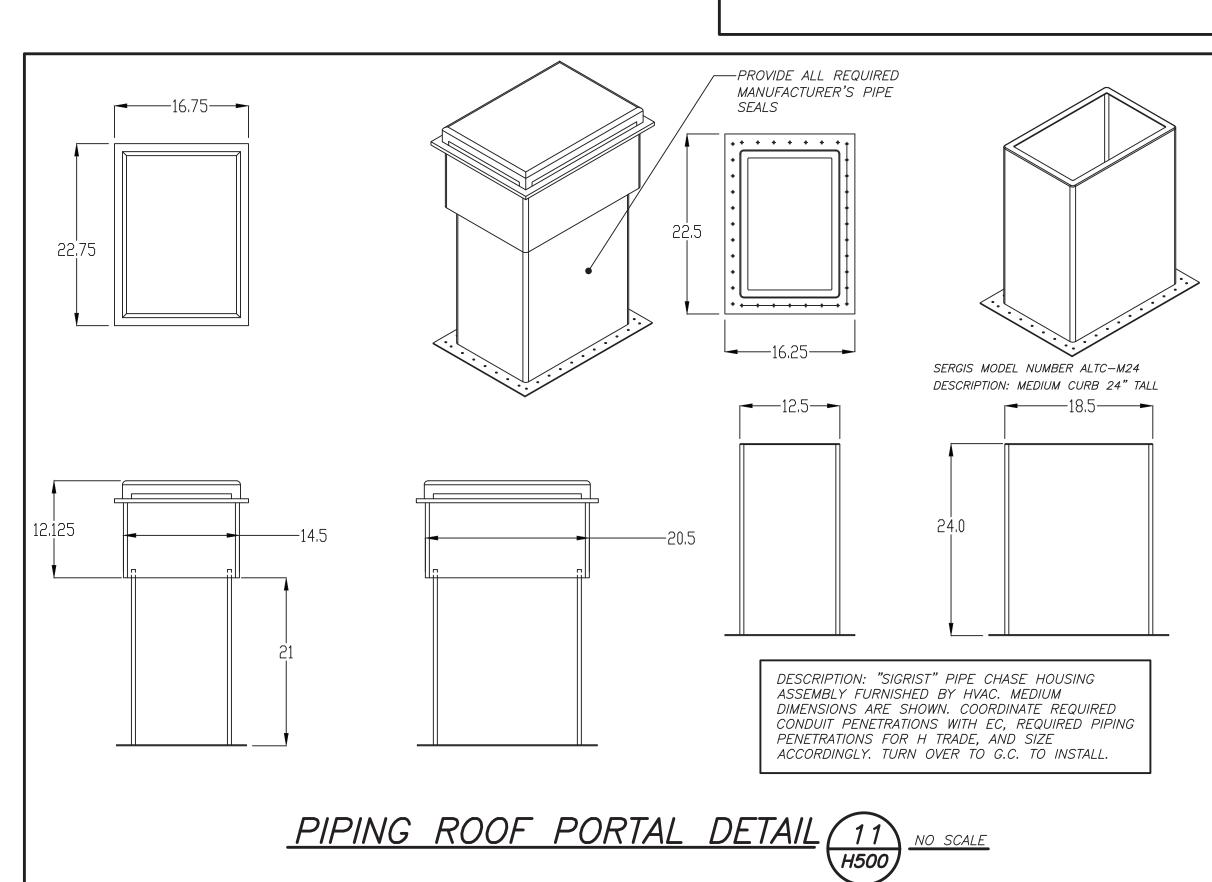


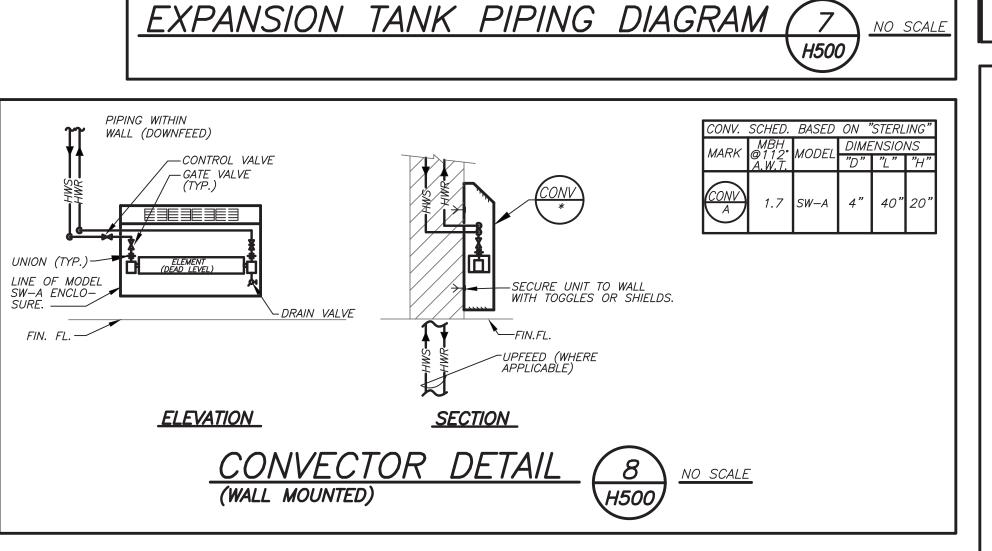












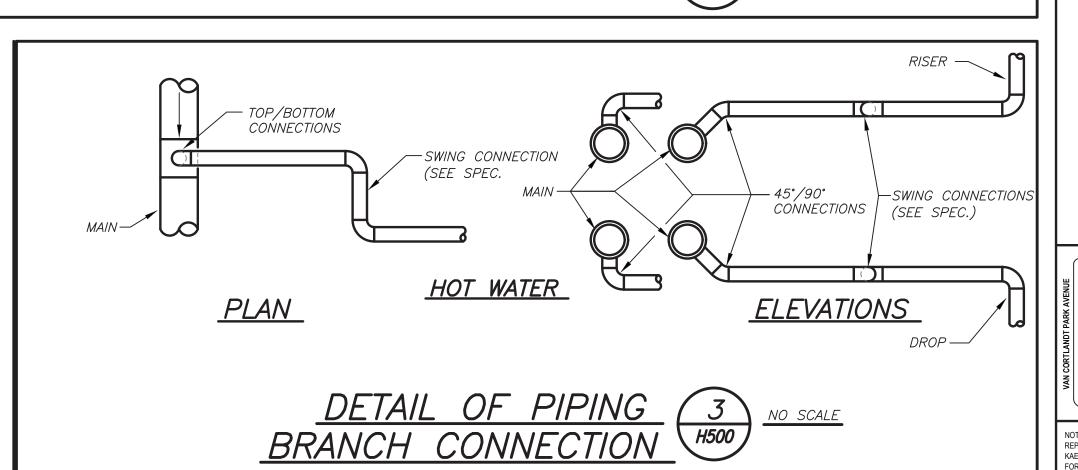
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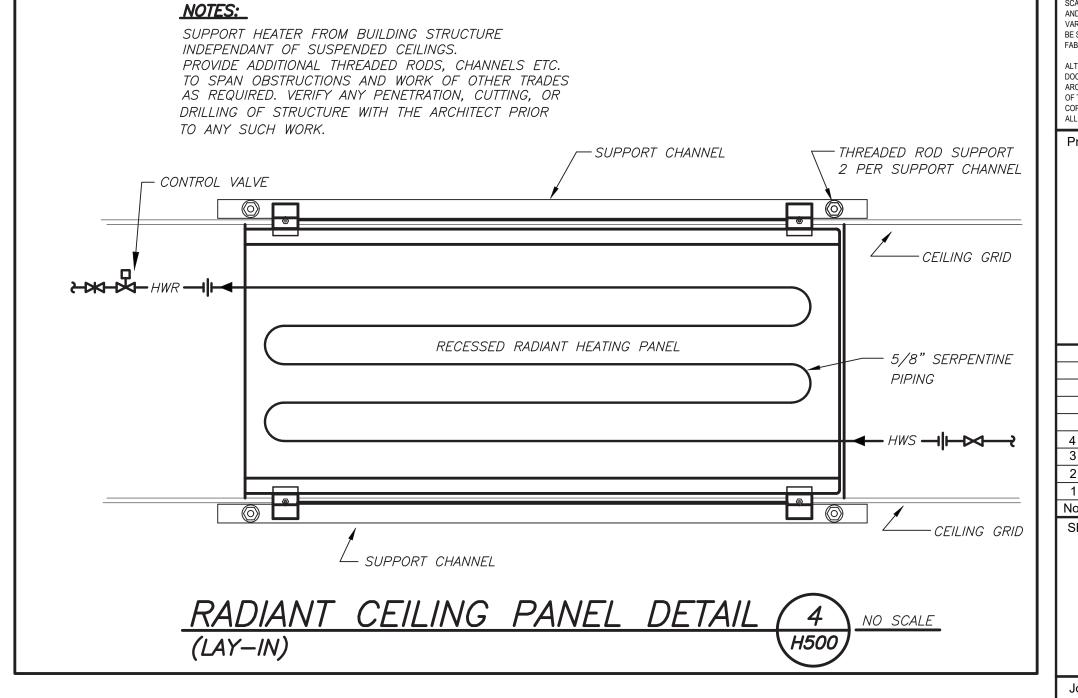
RESSURE GUAGE (W/SHUT-OFF COCK) RAIN VALVE WITH HOSE END CONNECTION

TOMATIC AIR VENT

LABEL TANKS WITH LAMINATED PLATES

PALL VALVE (HANDLE REMOVED)







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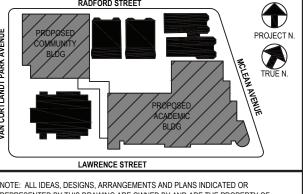
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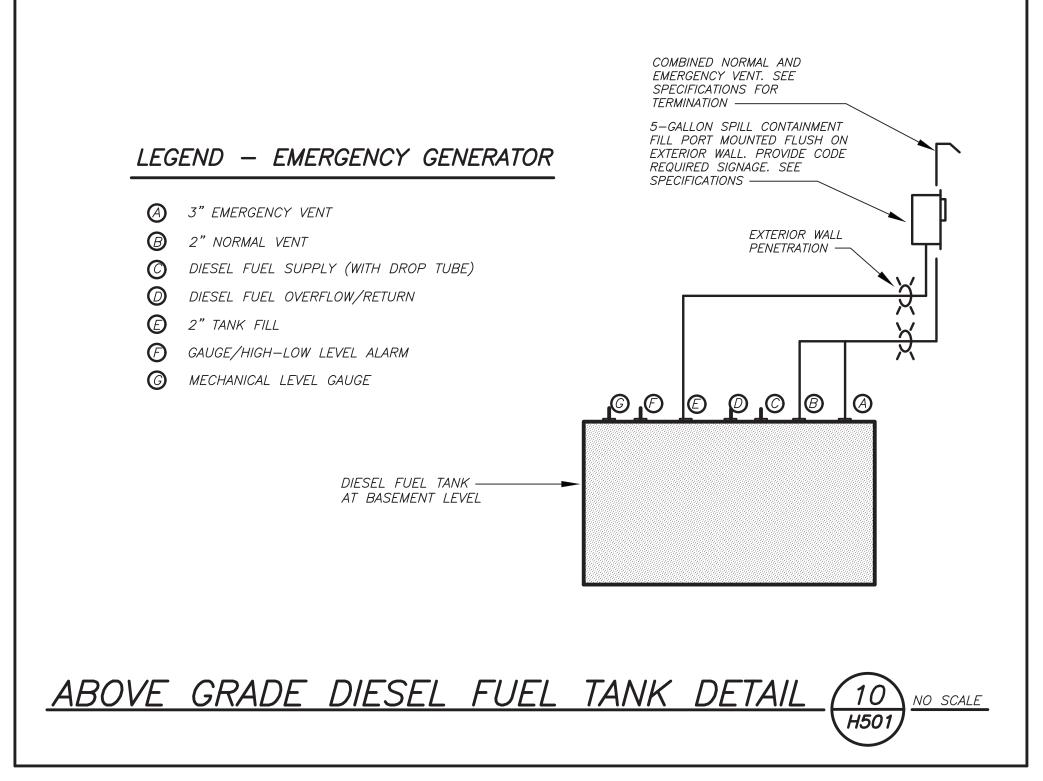
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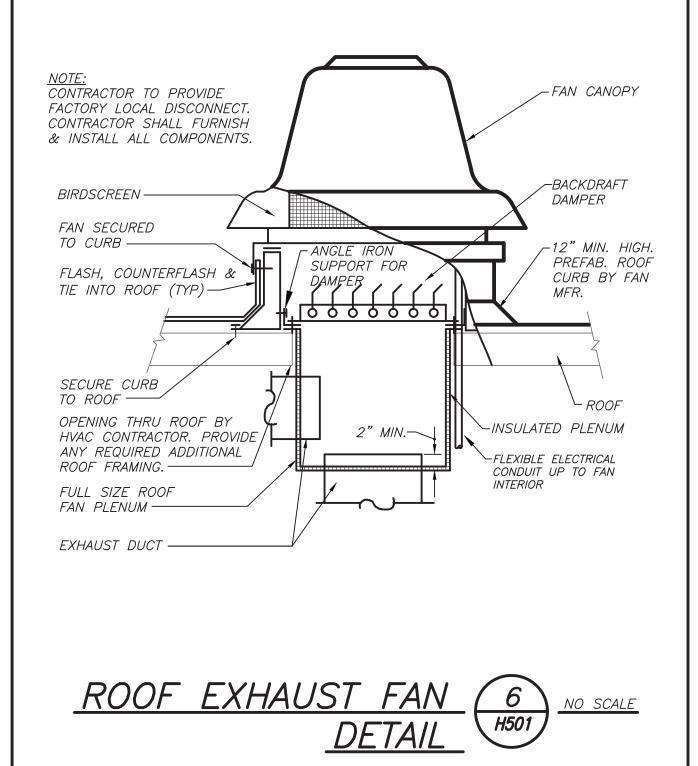
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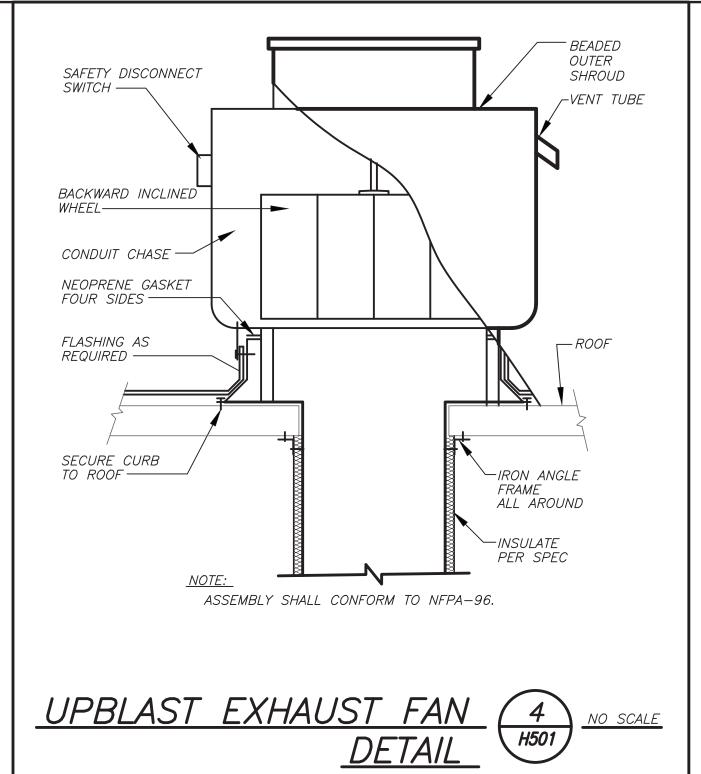
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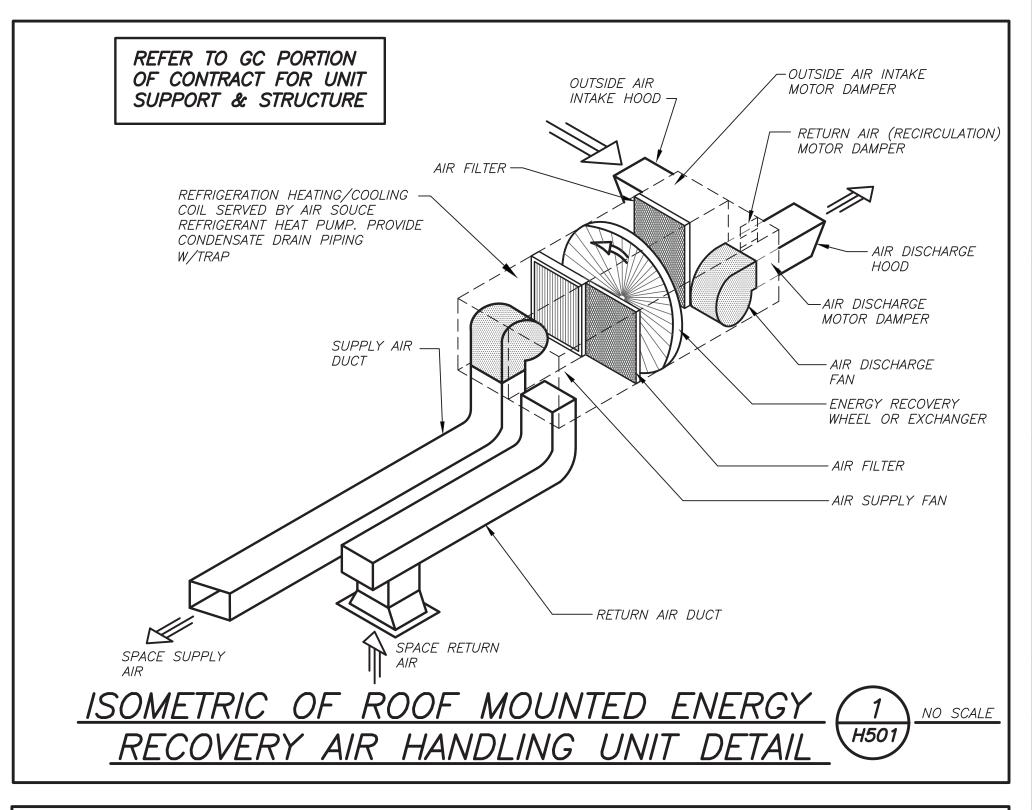
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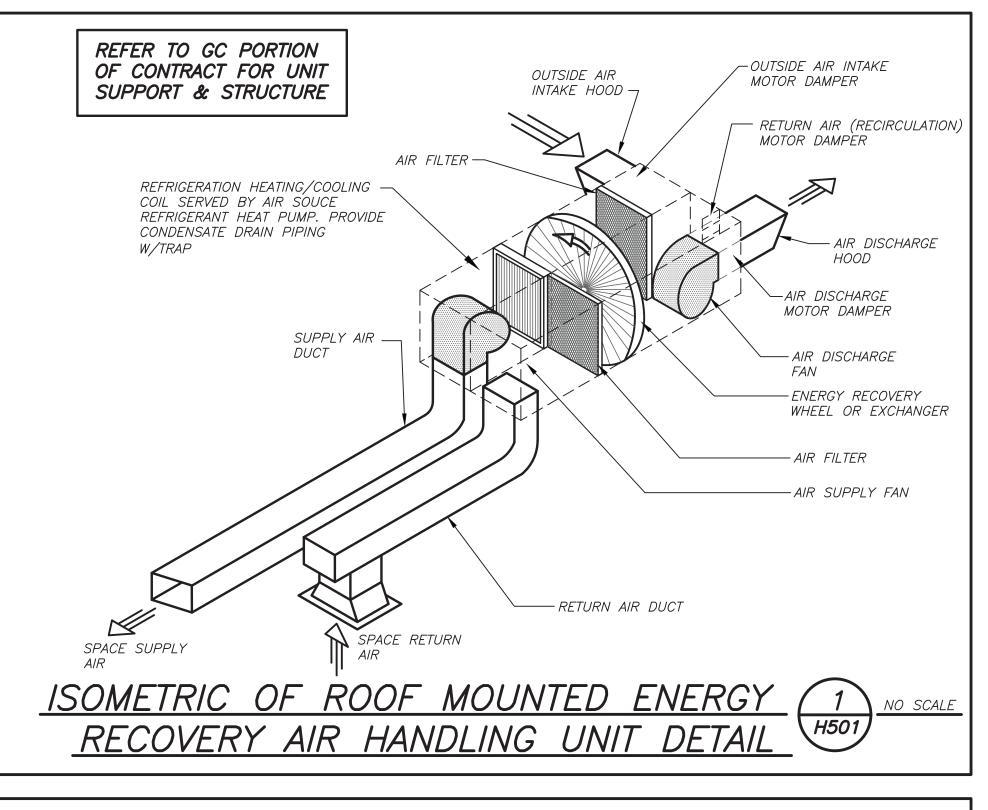
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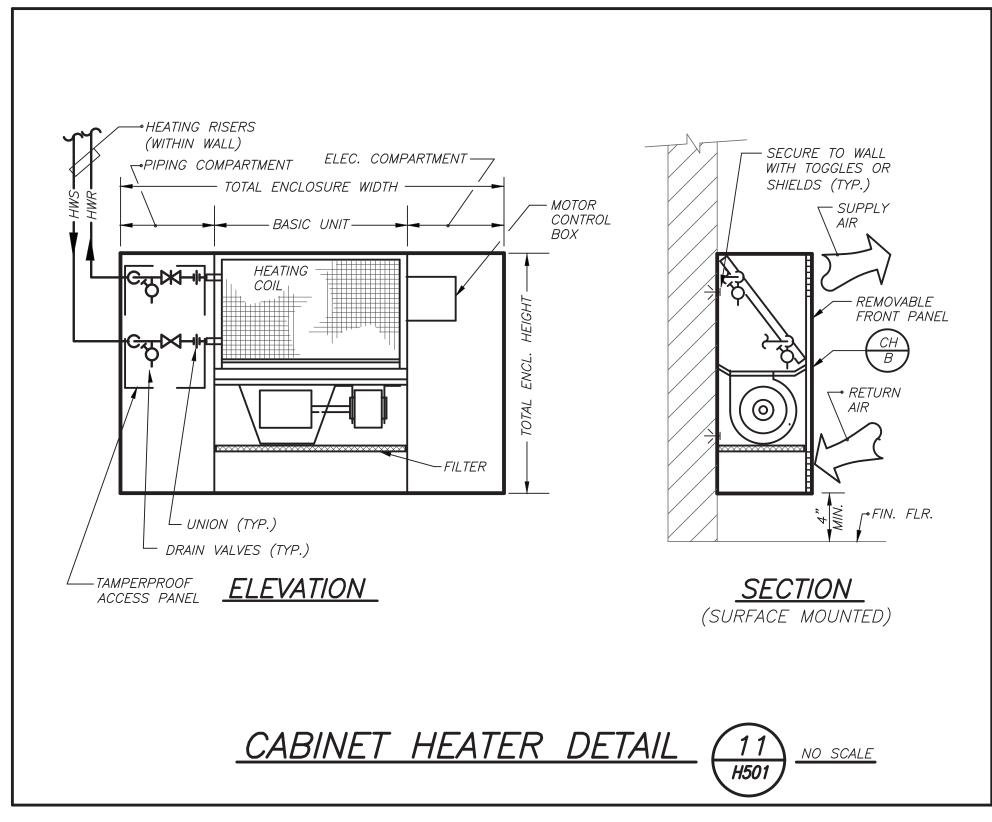


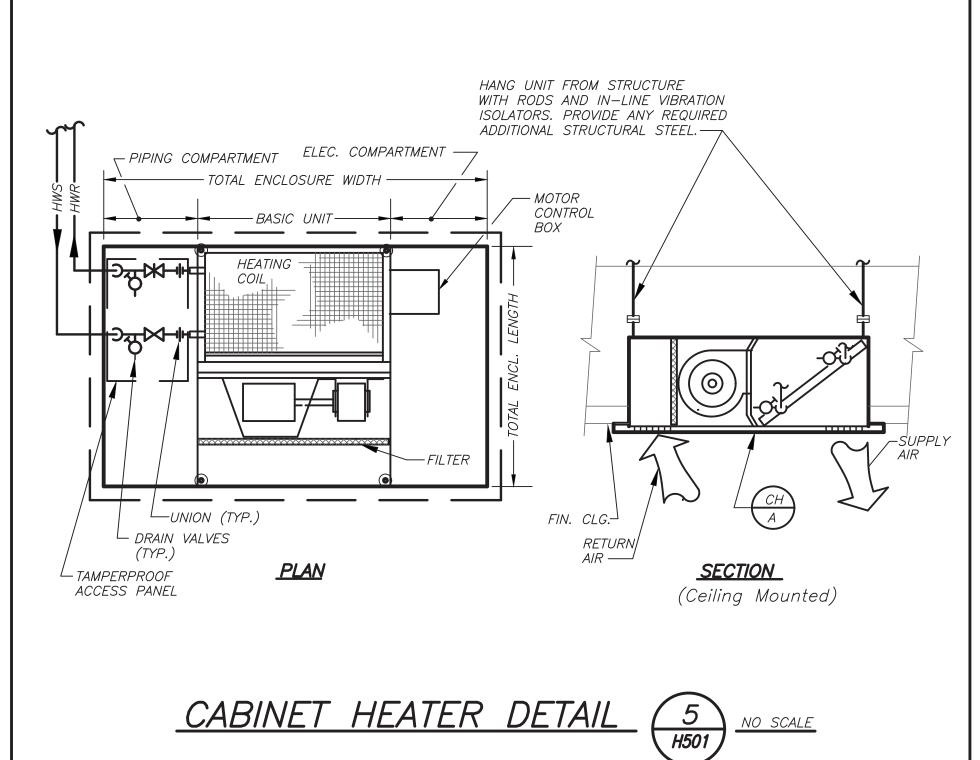


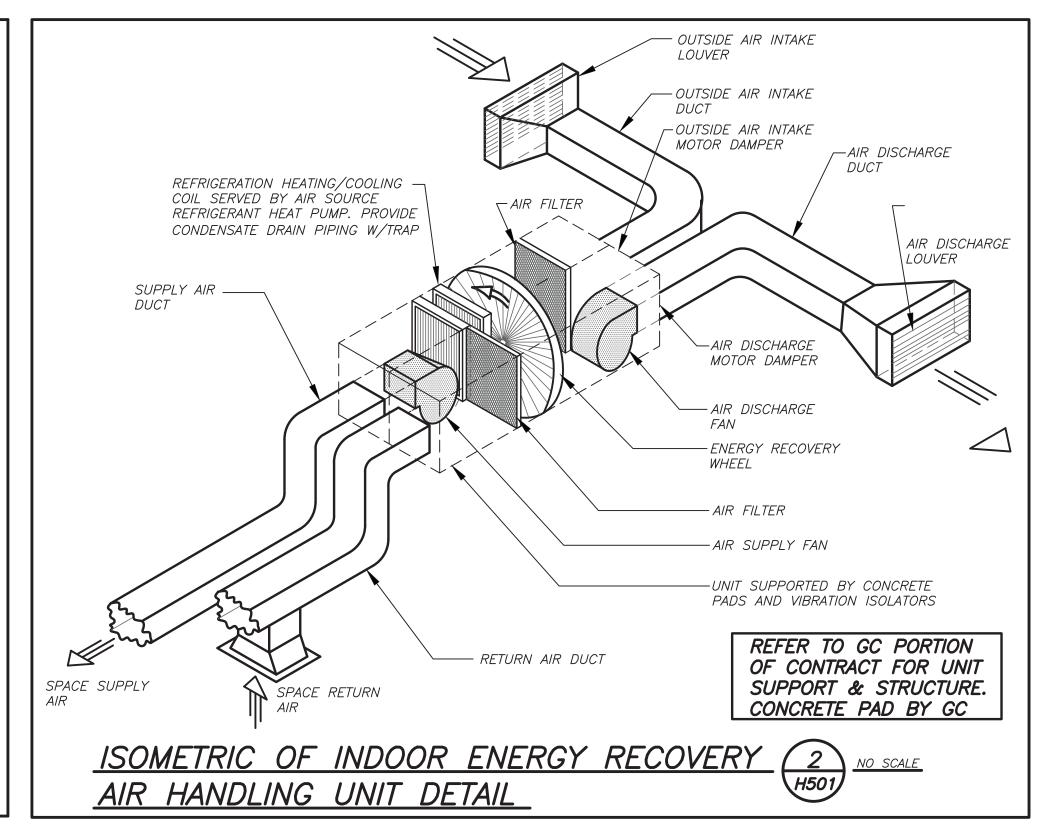


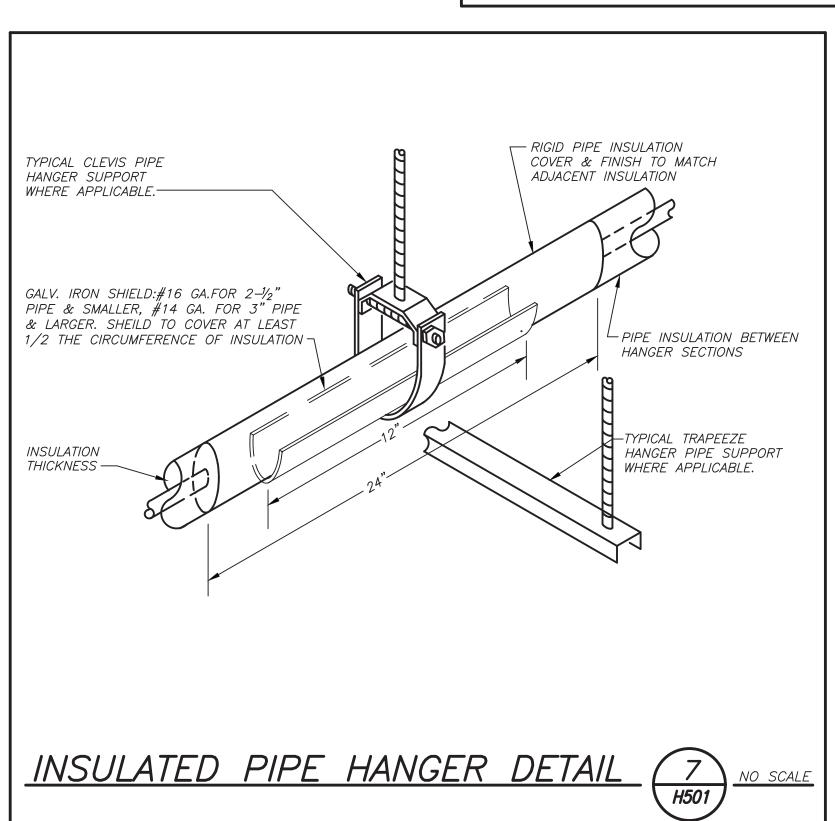


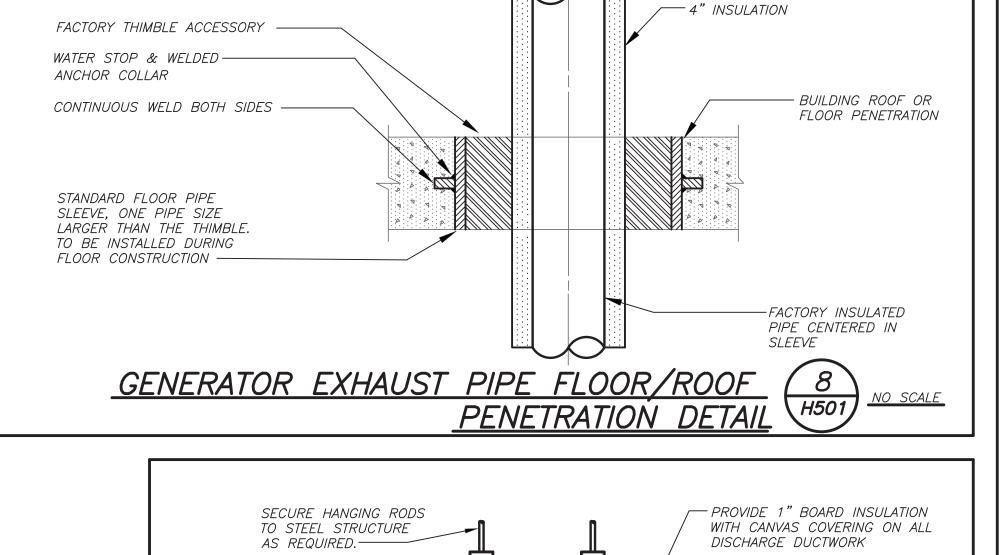


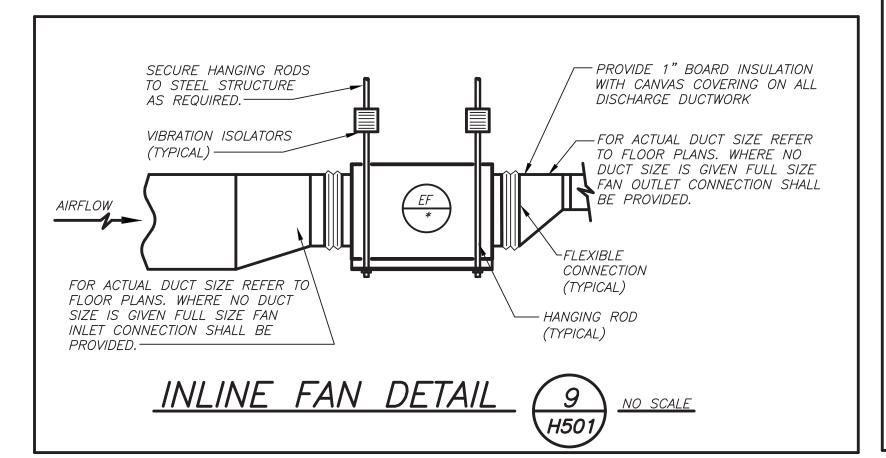


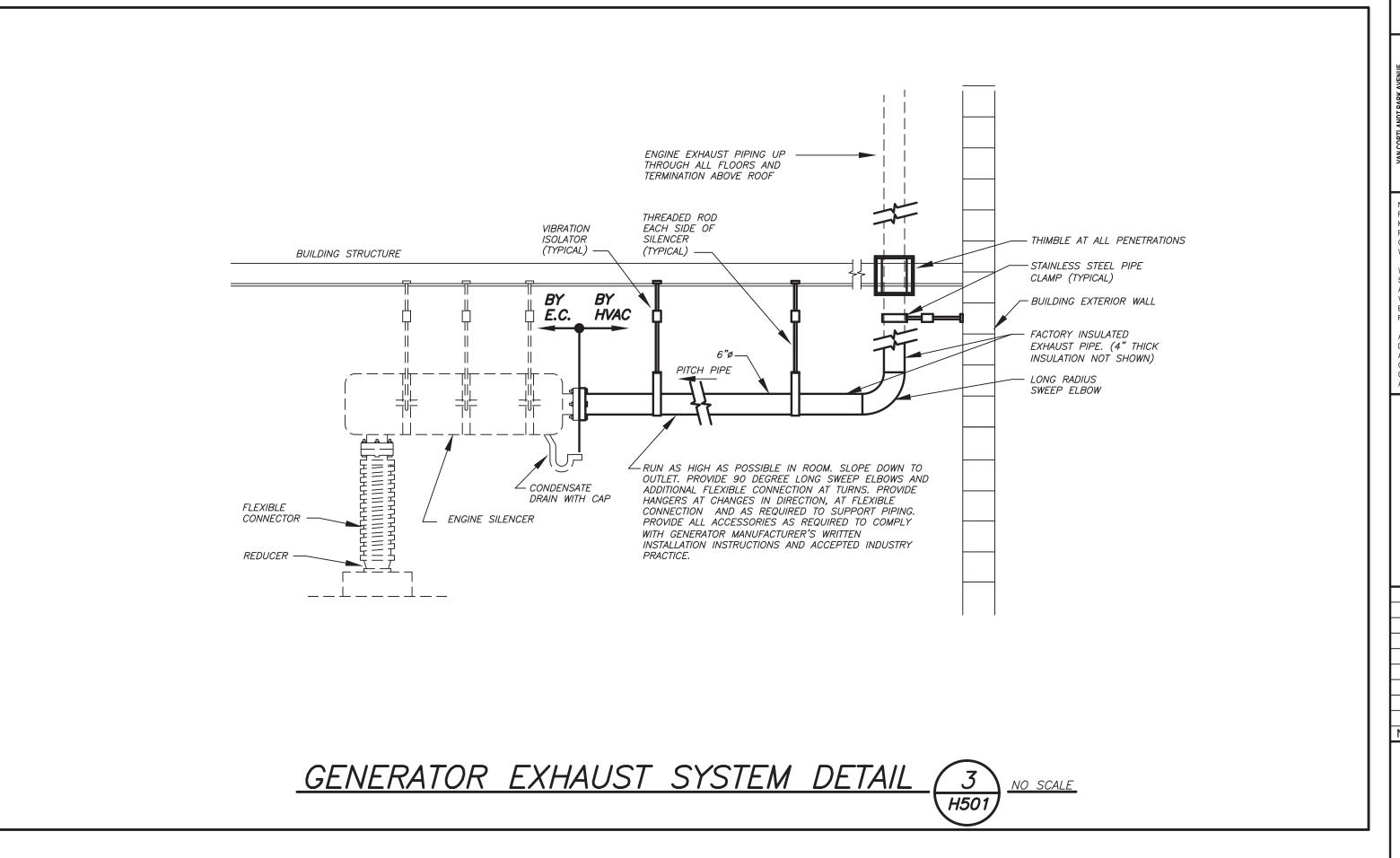


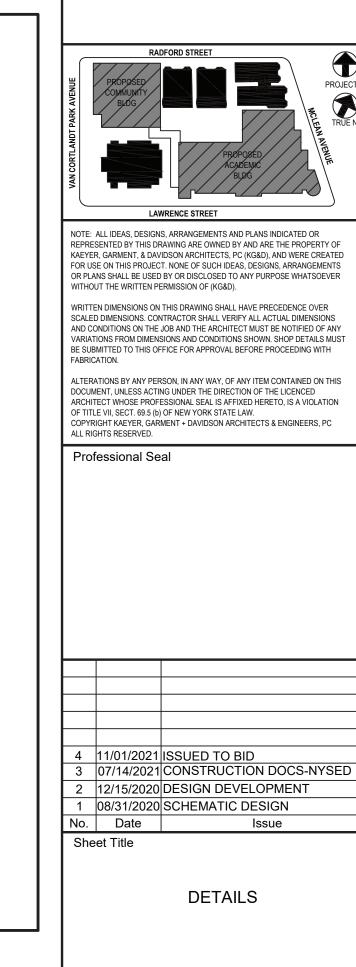












2019-1026

AS NOTED

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H501

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CONSTRUCTION BOARD

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YONKERS, NY 10705

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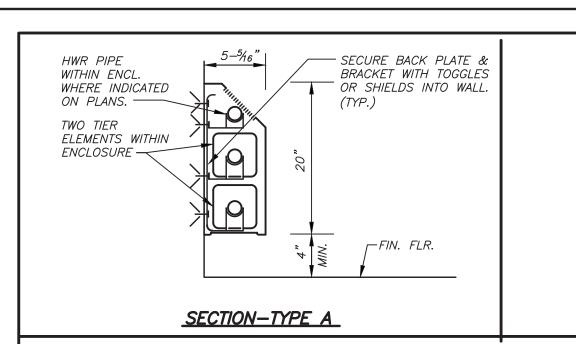
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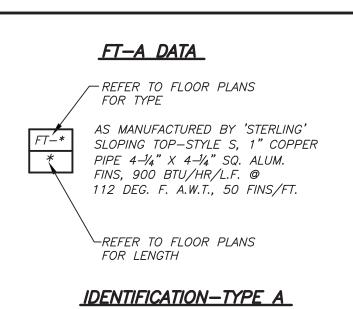


OFFSET TYPE 2 (MITERED)

OFFSET TYPE 3 (RADIUSSED

OR OGEE)

6" (150MM) — THROAT RADIUS



CONCENTRIC TRANSITION 0 MAX. 45° DIVERGING, 60° CONVERGING

ECCENTRIC TRANSITION

STANDARD BELLMOUTH (ON SHORT PATTERN BELL

C=3" (76MM) B = A + 4" (102MM)

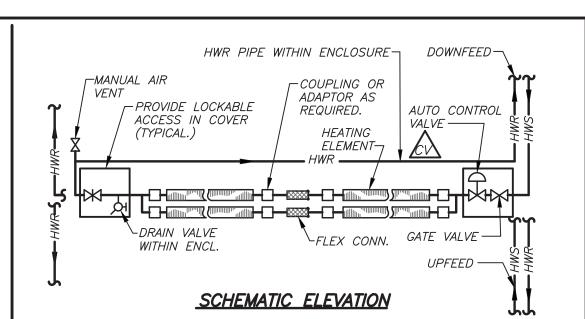
DUCT OFFSETS AND 6
TRANSITIONS DETAIL

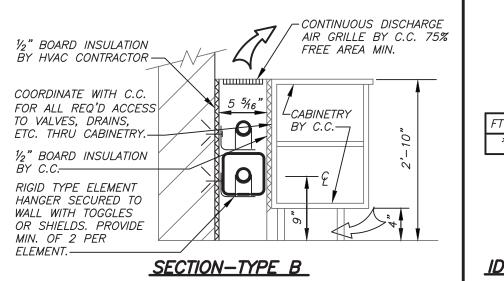
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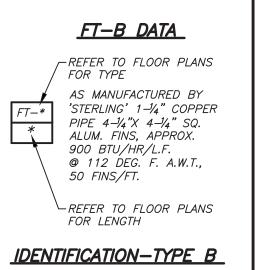
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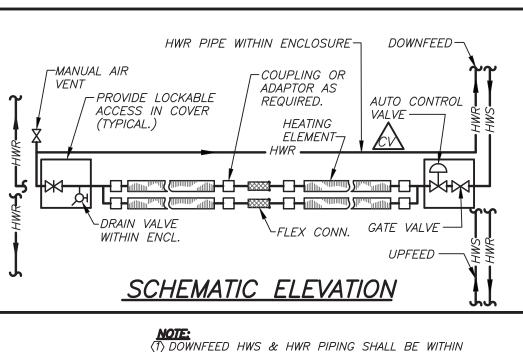
(EXCEPT 45° IS PERMITTED AT ROUND TO FLAT OVAL)

0 MAX. 30°









ENCLOSURE.

COMB. BAL. &

H502

CONN. NEW TO EXIST.

HWR PIPE WITHIN ENCL. WHERE INDICATED ON DWGS.

LDRAIN VALVE WITHIN ENCL. GATE VALVE

SCHEMATIC ELEVATION SINGLE TIER

GYP. BOARD CONSTRUCTION TYPICAL. WHERE NO PARTITION EXISTS, PROVIDE SHEETMETAL

ADAPTOR AS

REQUIRED.

HEATING

ELEMENT—

DOWNFEED ~

CONTROL

UPFEED SEE NOTE (1)



NEW COMMUNITY

SCHOOL AT THE

YONKERS JOINT SCHOOL

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121 McLEAN AVENUE

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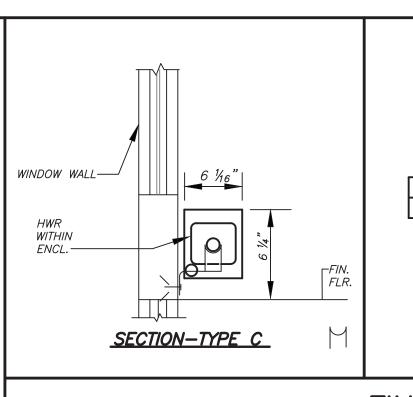
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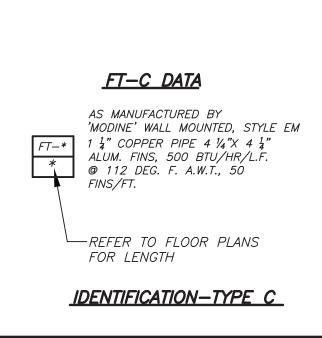
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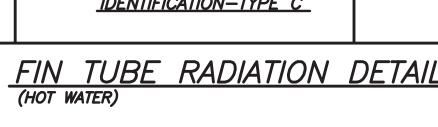
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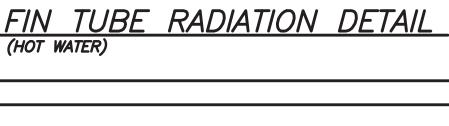


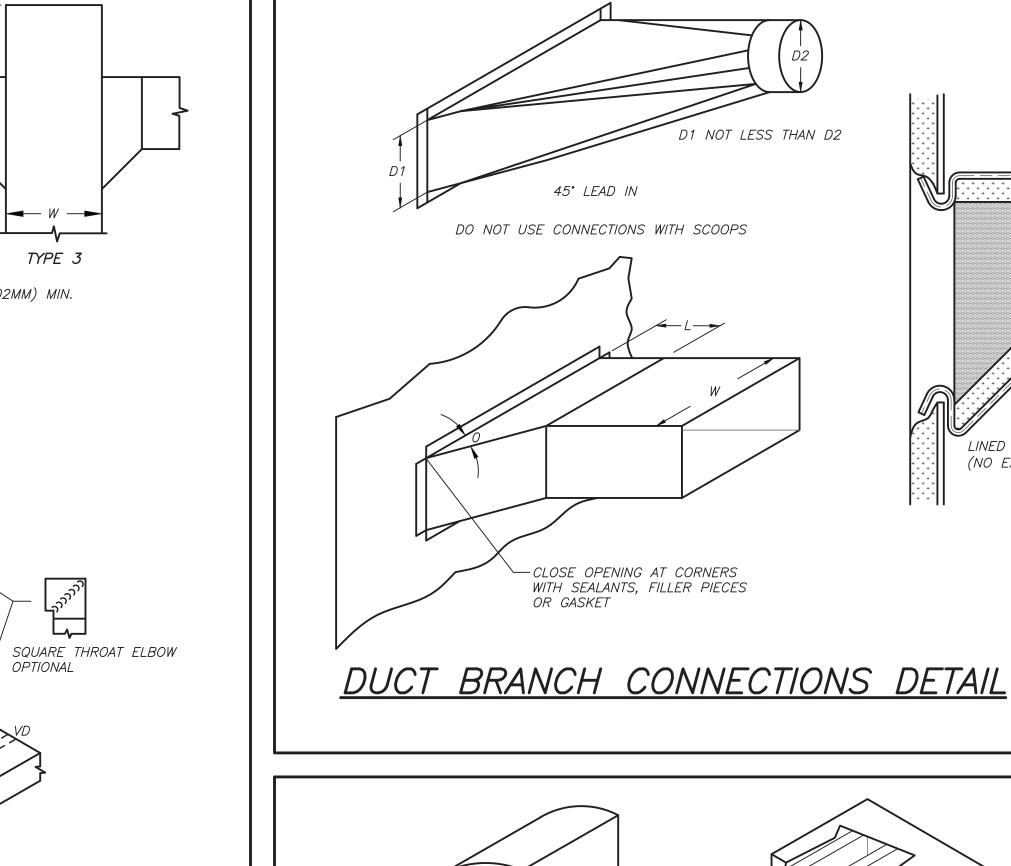
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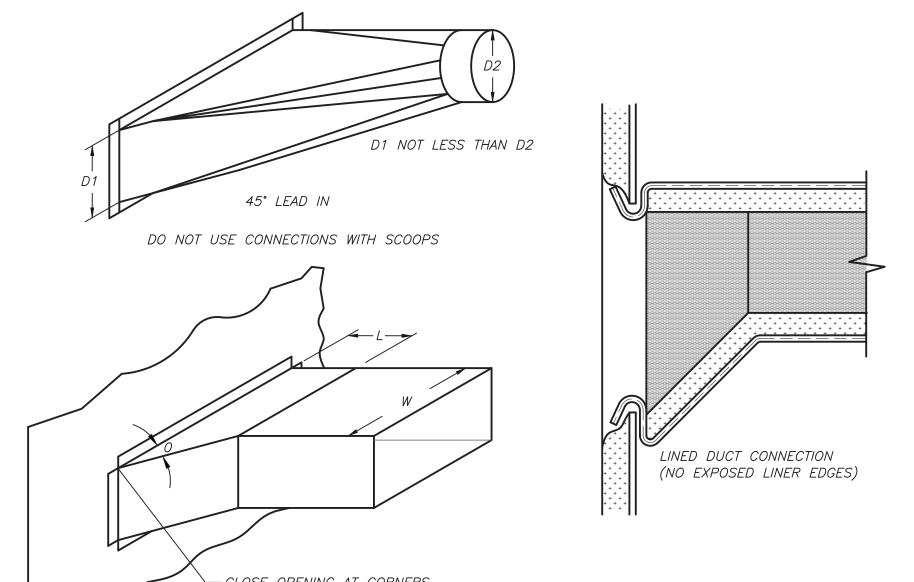
W=4" (102MM) MIN.

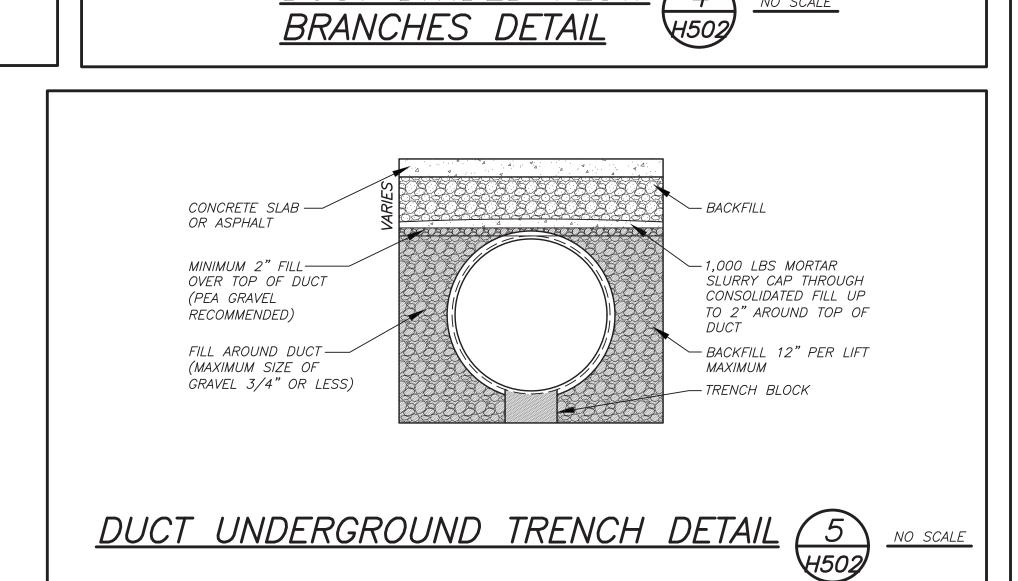












DUCT DIVIDED FLOW 4

VOLUME CONTROL BY BRANCH DAMPERS SPLITTER LENGTH SHOULD BE 1.5 W OR 1.5 D3

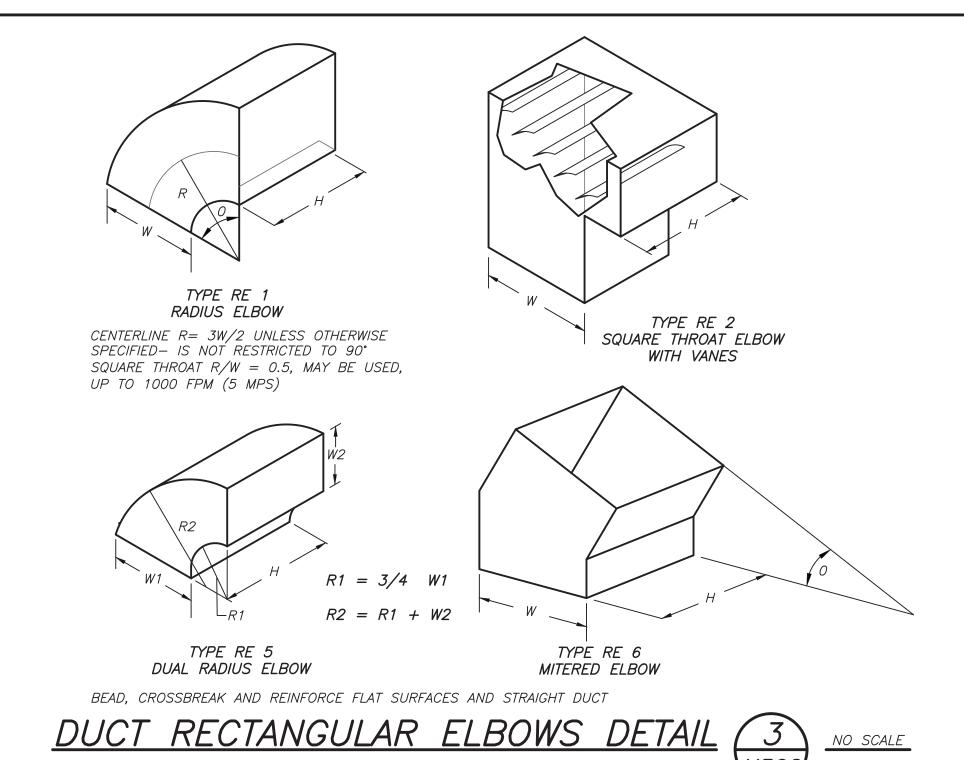
TYPE 2

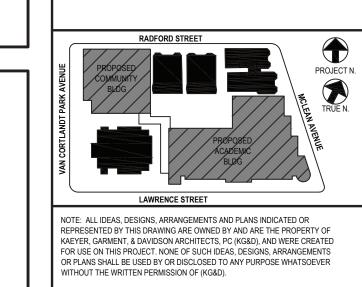
* S—SLIP OR U CLIP OPTIONAL
ALL SUCH CONNECTIONS TO BE
SEALED ———

D2 = 4" (102MM) MIN. D3 = 4" (102MM) MIN.

TYPE 4A

TYPE 4B





WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY

BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENCED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW.

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4 11/01/2021 ISSUED TO BID 3 07/14/2021 CONSTRUCTION DOCS-NYSED 2 12/15/2020 DESIGN DEVELOPMENT 1 08/31/2020 SCHEMATIC DESIGN

No. Date Issue

Sheet Title

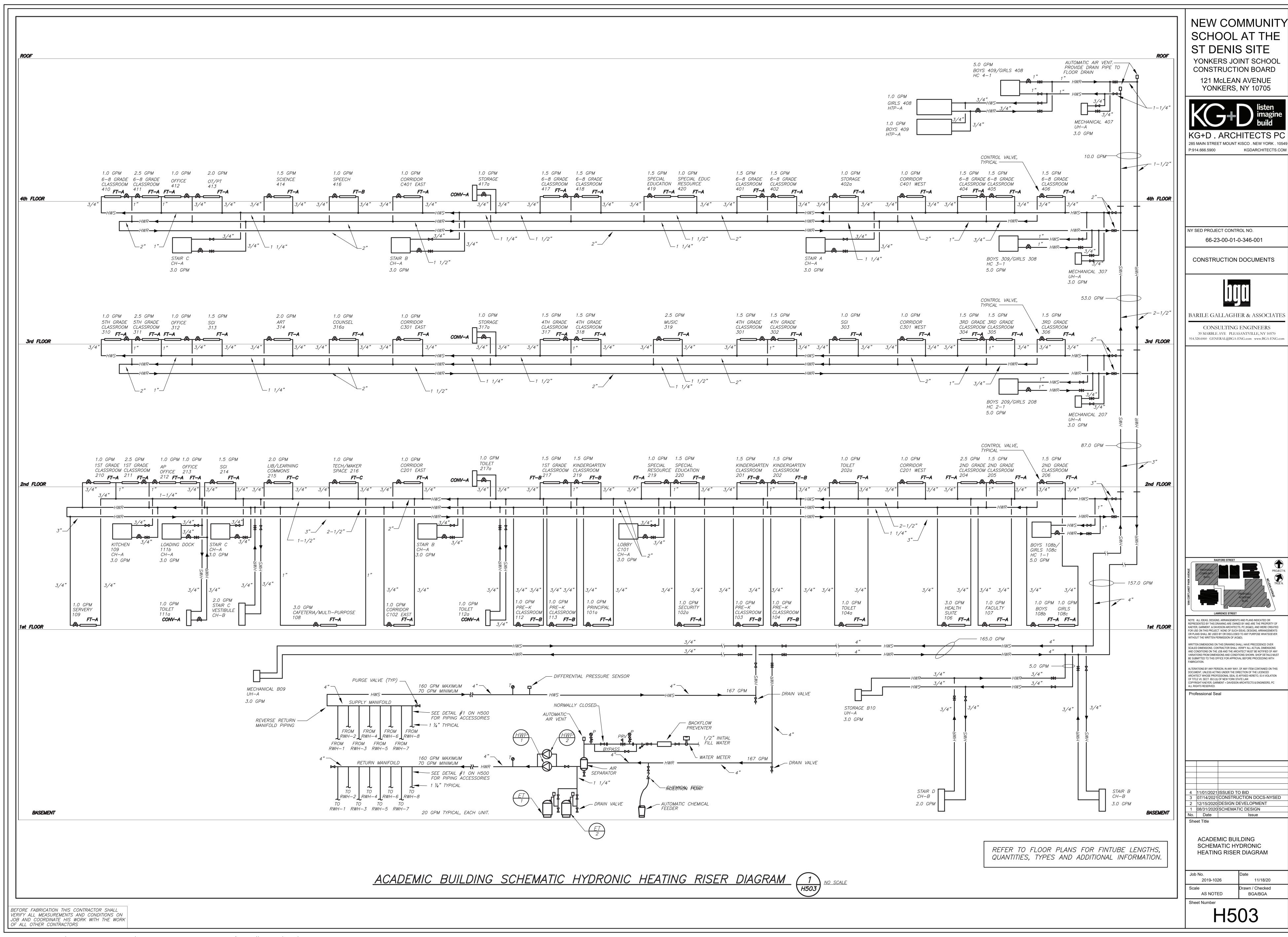
DETAILS

2019-1026 11/18/20 Orawn / Checked AS NOTED BGA/BGA Sheet Number

H502

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DBE: TAB: Layout1 - C:\Users\SAcierno\AppData\Local\Temp\AcPublish_9492\201700H502.dwg - DATE: Nov 03, 2021 - 4:08pm



YONKERS JOINT SCHOOL



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