

CPL | Architecture Engineering Planning 50 FRONT ST. SUITE 202 NEWBURGH, NY 12550 CPLteam.com

PROJECT INFORMATION

13940.18 Client Name

Project Number

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT

Project Address 405 Union Avenue, New Windsor, NY 12553

SED Number

44-16-00-01-0-039-011

PROJECT ISSUE SCHEDULE

1 09/21/21 BID ADDENDA 1

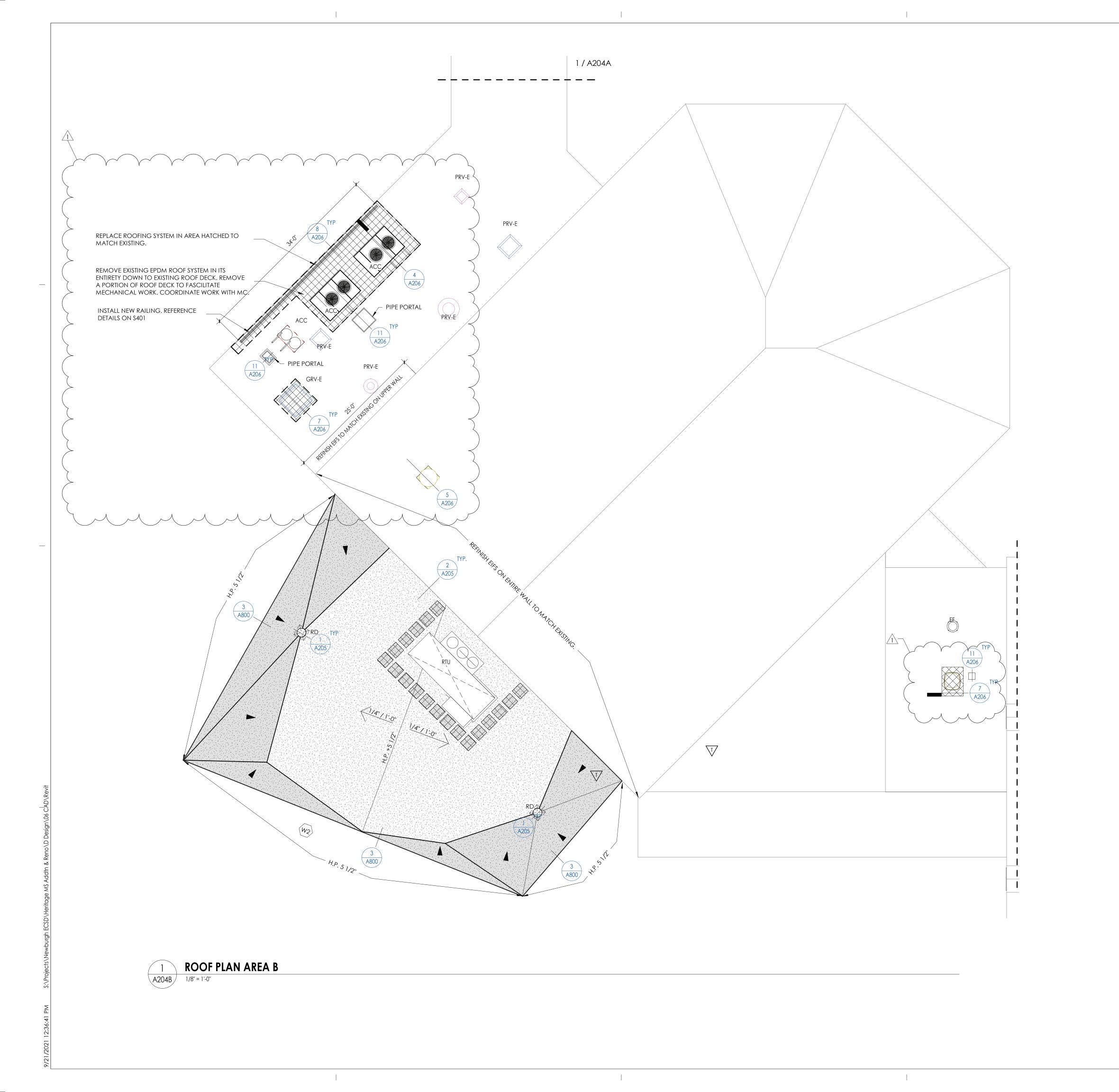
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Drawn By CPL CPL

GROUND FLOOR AREA A - NEW **WORK PLAN**



ROOF PLAN GENERAL NOTES

- 1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF MATERIALS. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL CONDITITONS PRIOR TO THE COMMENCEMENT OF WORK.
- 2. REFER TO ALL DRAWINGS IN THE SET FOR LOCATIONS OF ALL ROOF PENETRATIONS. PROVIDE FRAMING AS REQUIRED.
- 3. CONTRACTOR SHALL PAINT ALL ROOF FASTENERS EXPOSED TO VIEW AT UNDERSIDE OF DECK TO MATCH.
- 4. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE BROOM
- CLEAN AT THE END OF EACH DAY. 5. ALL WOOD BLOCKING USED SHALL BE PRESSURE TREATED.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL ROOF DRAINS AND CUTTING THE HOLES IN THE DECK FOR ANY DRAINS AND PROVIDING STRUCTURAL
- 7. THE ROOF ELEVATIONS SHOWN ON THE PLAN ARE SHOWN TO ESTABLISH RELATIVE HEIGHTS OF THE INDIVIDUAL ROOFS.
- 8. NO WEEP HOLES SHALL BE COVERED OR PLUGGED AS A RESULT OF THE ROOFING WORK, UNLESS OTHERWISE DIRECTED.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN WATER TIGHTNESS AND PROVIDE PROTECTION AT ANY/ALL OPENINGS IN THE ROOF LEFT AT THE END OF EACH DAY.
- 10. PROVIDE CRICKETS FOR WATER DIVERSION AT ALL CURBS, RAILS, ETC. WHICH RUN PERPENDICULAR TO THE SLOPE OF THE INSULATION/SLOPED STRUCTURE.
- 11. ALL ROOF TOP UNITS SHALL BE MOUNTED ON 16" MIN. INSULATED METAL CURBS. PROVIDE TAPERED INSULATION CRICKETS AS REQUIRED TO SHED WATER. WOOD BLOCKING SHALL BE PROVIDED SO CURBS ARE 8" ABOVE FINISHED ROOF SURFACE.
- 12. THE MINIMUM INSULATION THICKNESS SHALL BE 5.5". SLOPE OF TAPERED INSULATION TO BE A MINIMUM OF 1/4" PER FOOT FOR NEW CONSTRUCTION AND 1/8" PER FOOT OVER EXISTING STRUCTURE.

ROOF PLAN LEGEND

ROOF DRAIN W/ SECONDARY

SLOPED INSULATION ROOF CRICKET. PROVIDE 1/2"/ 1'-0" POSITIVE DRAINAGE

SLOPED INSULATION HIGH POINT (MIN. 5 1/2")



MECH. CURB (W/ CRICKET), PROVIDE FLASHING PER ROOF MANUFACTURER'S DETAILS



ROOF SLOPE



2'-0" x 2'-0" ROOF MEMBRANE WALKWAY SYSTEM



NEW EPDM ROOF SYSTEM AS SPECIFIED

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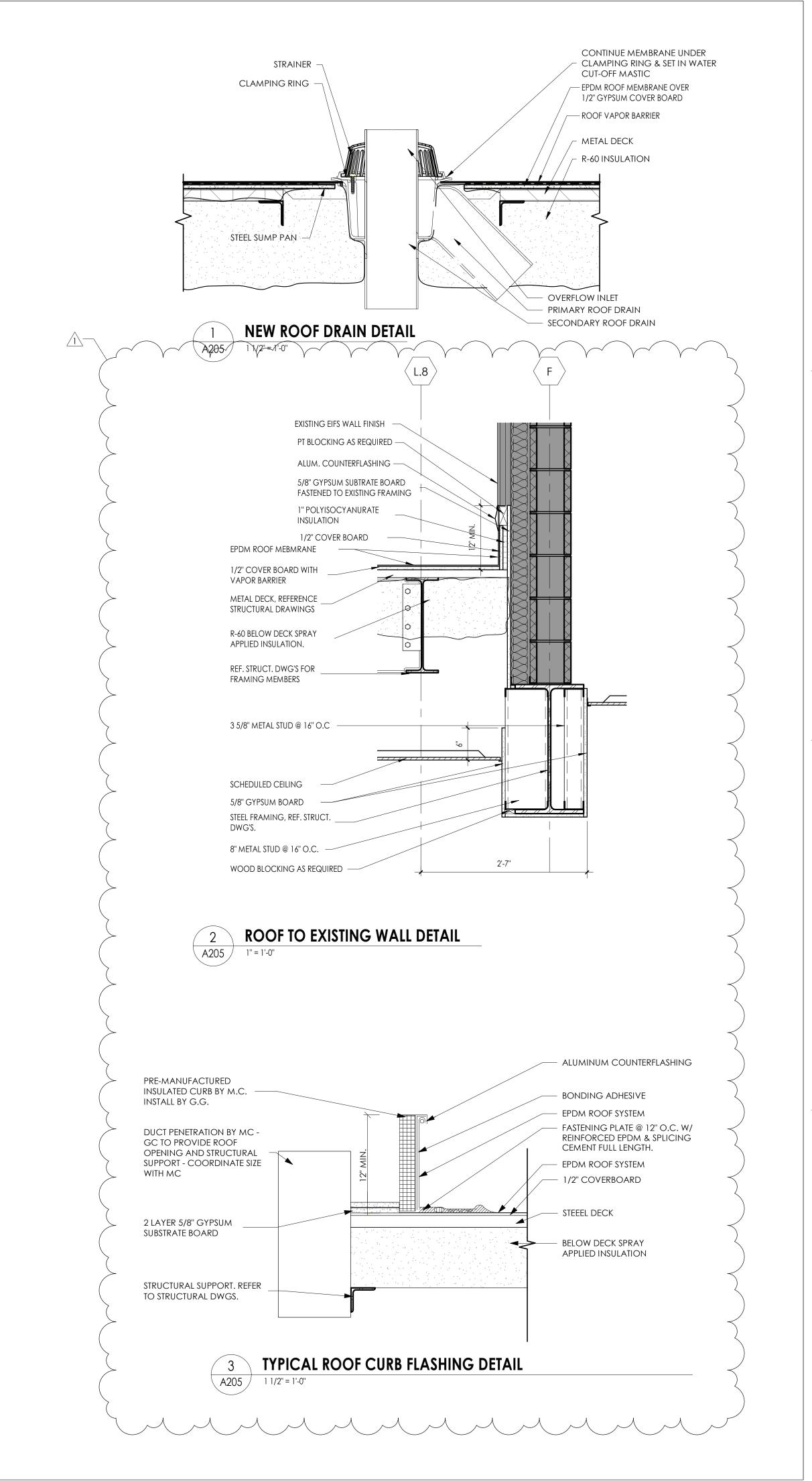
KEYPLAN AREA B
NTS

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CPL CPL Drawing Title ROOF PLAN AREA B





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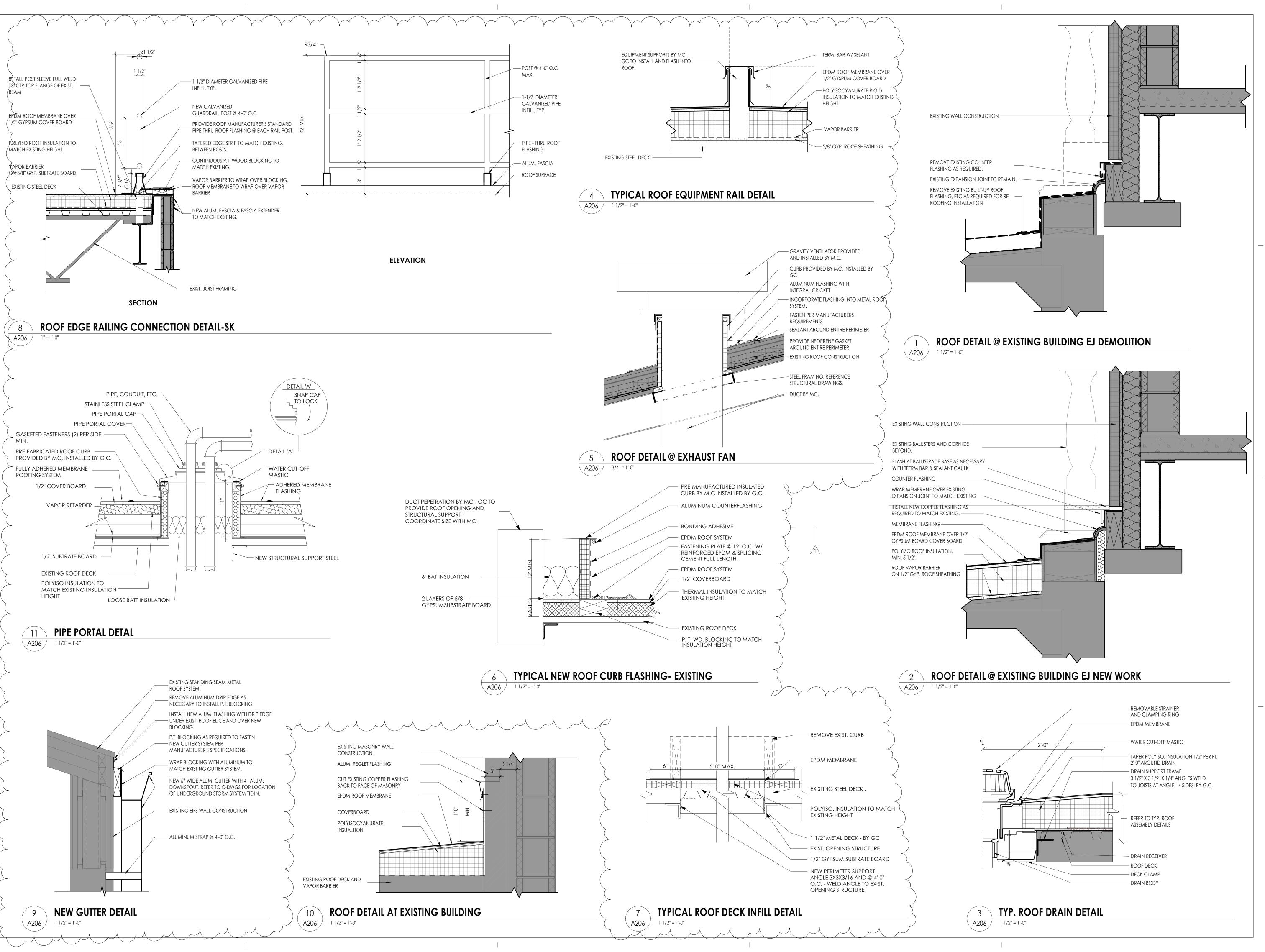
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Drawing Title

ROOF DETAILS AT NEW ROOF

CPL

HMS A 205



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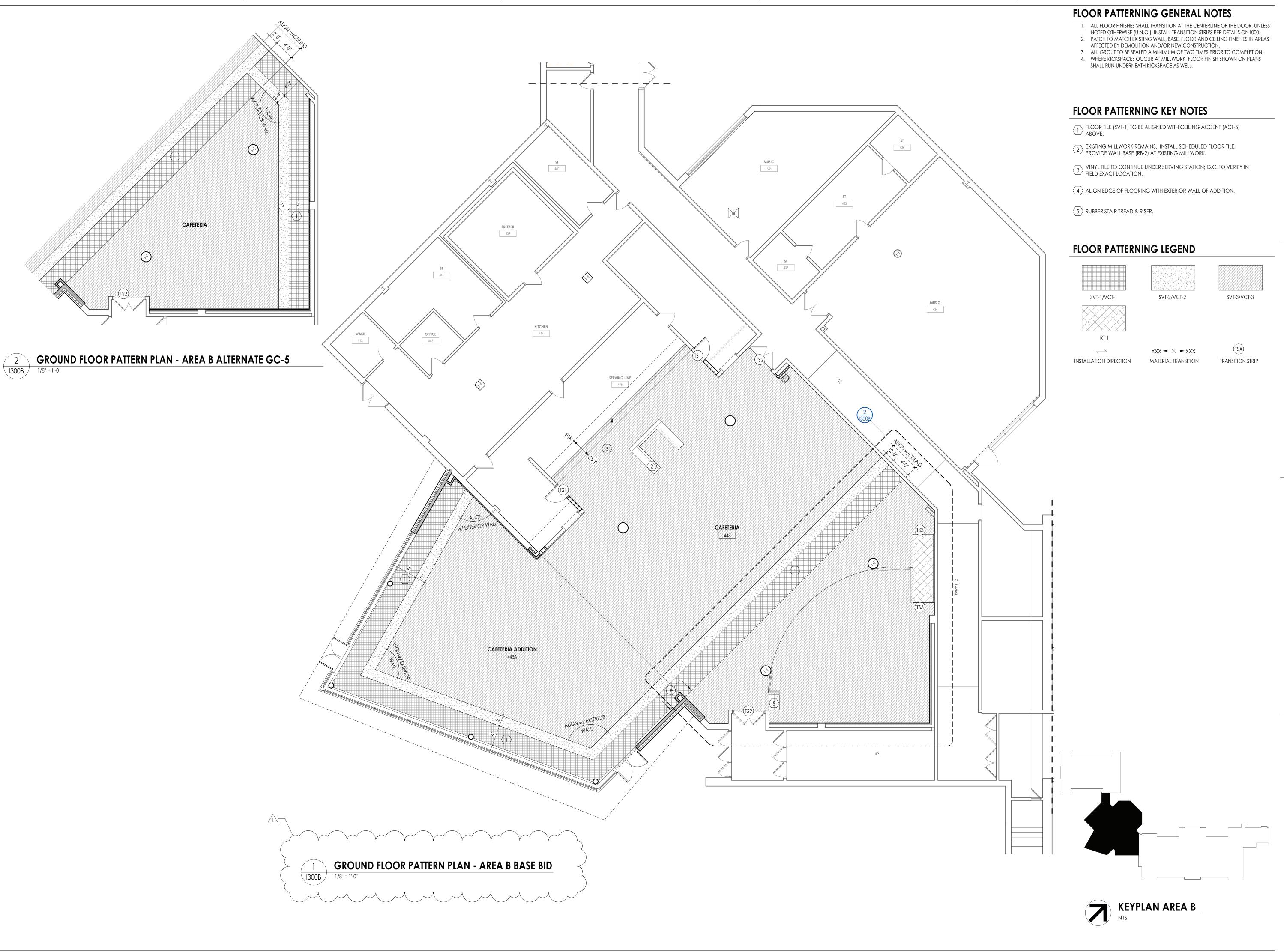
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Author Checker
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ROOF DETAILS AT EXISTING ROOF

HMS A206



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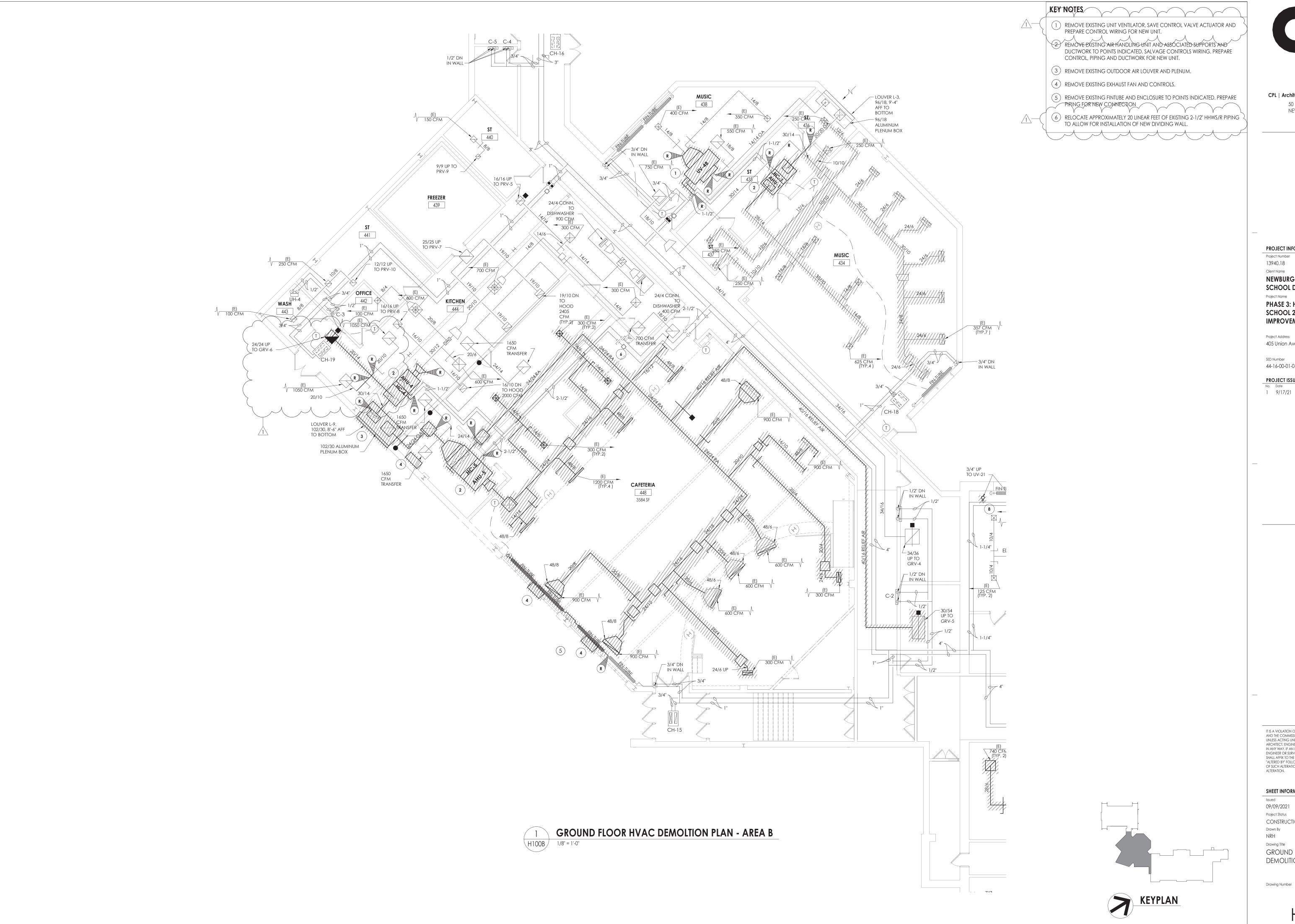
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GROUND FLOOR AREA B -FLOOR PATTERNING PLAN



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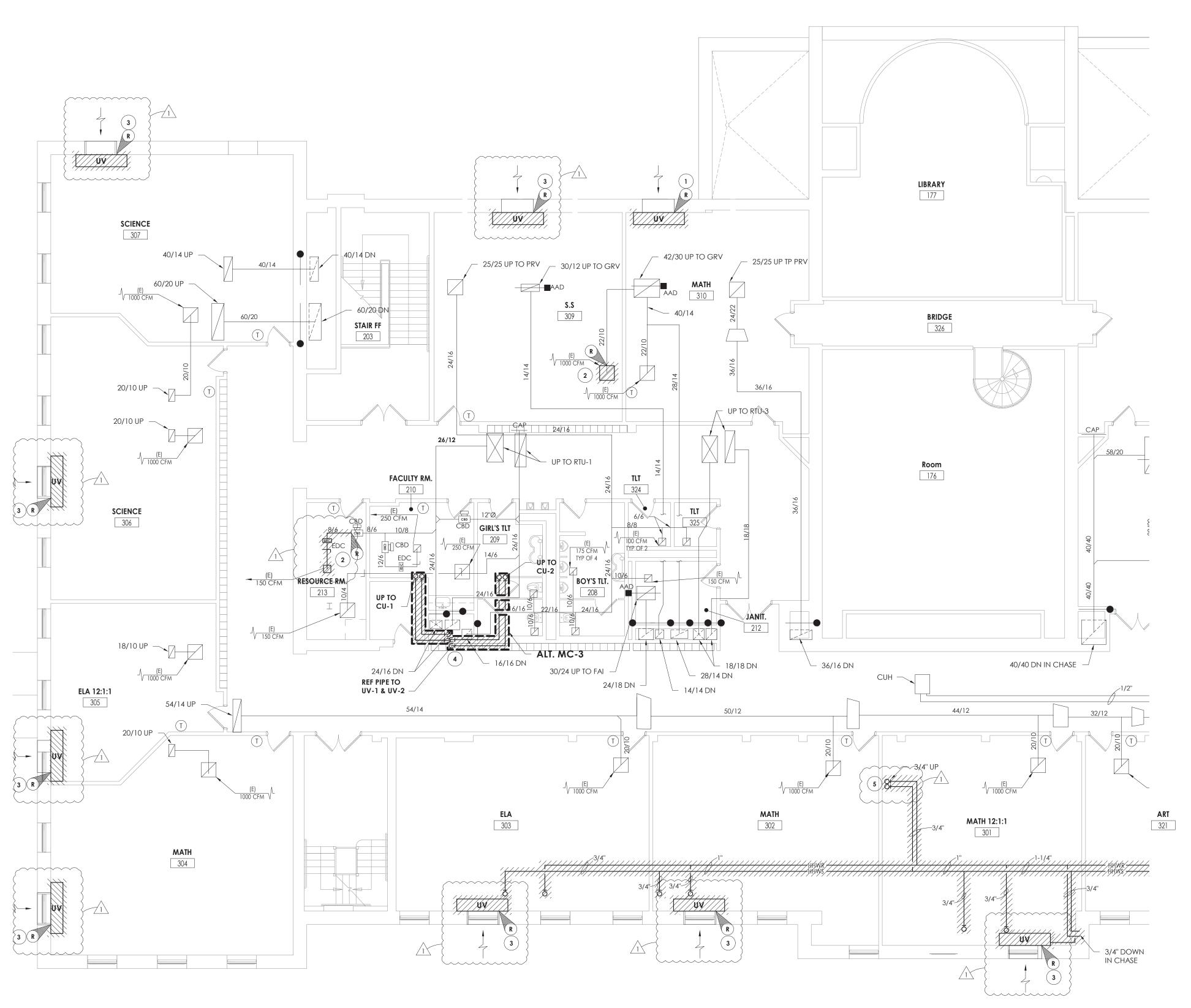
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GROUND FLOOR HVAC

DEMOLITION PLAN - AREA B

H100B



KEY NOT

REMOVE EXISTING UNIT VENTILATOR AND OUTDOOR AIR LOUVER. SAVE CONTROLS AND CONTROL WIRING.

REMOVE DUCTWORK TO POINT INDICATED AND PREPARE DUCTWORK FOR NEW CONNECTION.

DUCTWORK FOR NEW CONNECTION.

REMOVE EXISTING UNIT VENTILATOR. SAVE CONTROL VALVE

ACTUATOR AND PREPARE CONTROL WIRING FOR EXTENSION TO

REMOVE EXISTING REFRIGERANT LINES IN ENTIRETY.

NEW UNIT. OUTDOOR AIR LOUVER TO REMAIN.

REMOVE PIPING TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.

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KEYPLAN

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NRH JJM

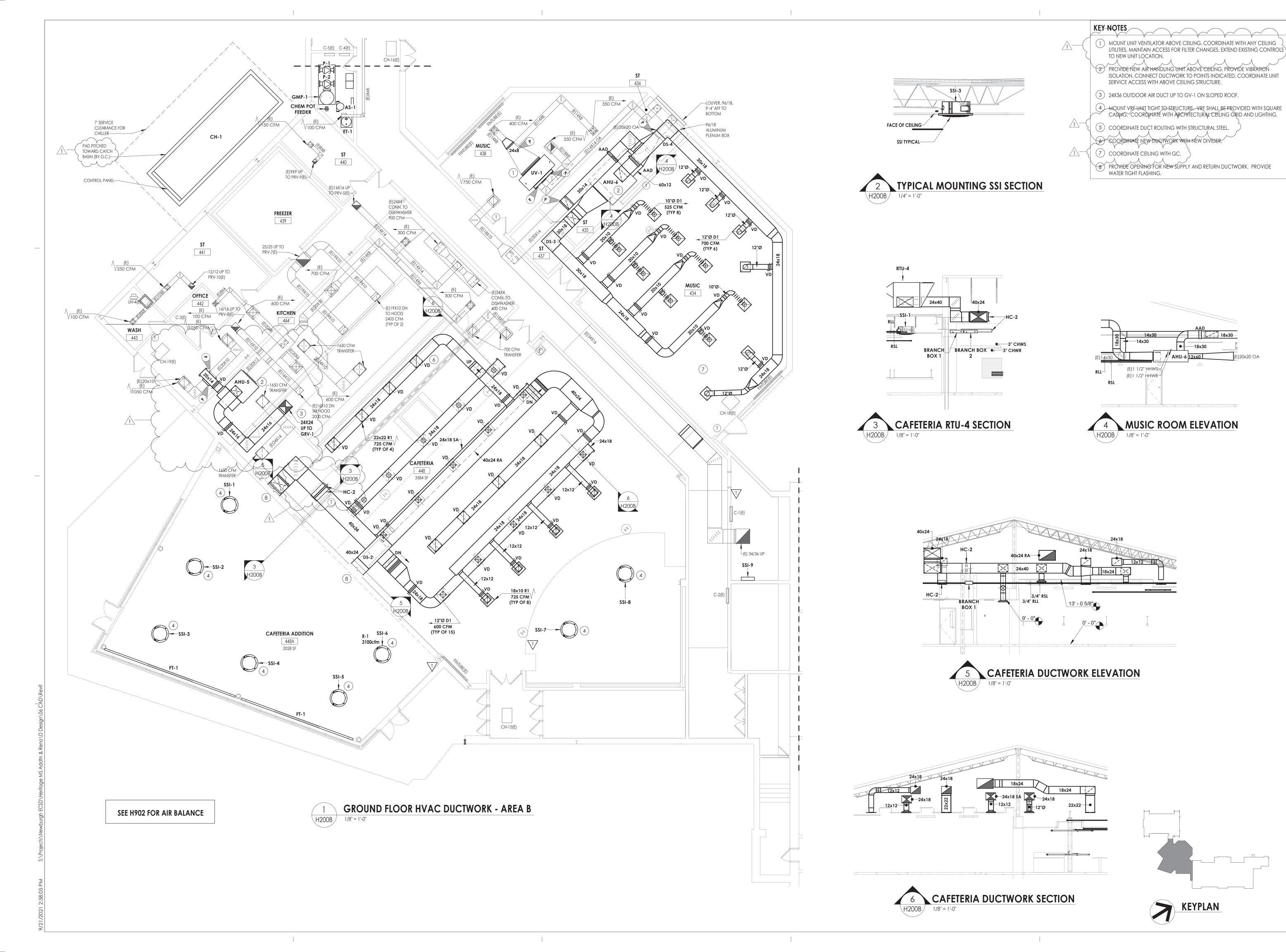
Drawing Title

SECOND FLOOR HVAC

DEMOLITION PLAN - AREA C

HMS H102C

SECOND FLOOR HVAC DEMOLTION PLAN - AREA C
H102C 1/8" = 1'-0"



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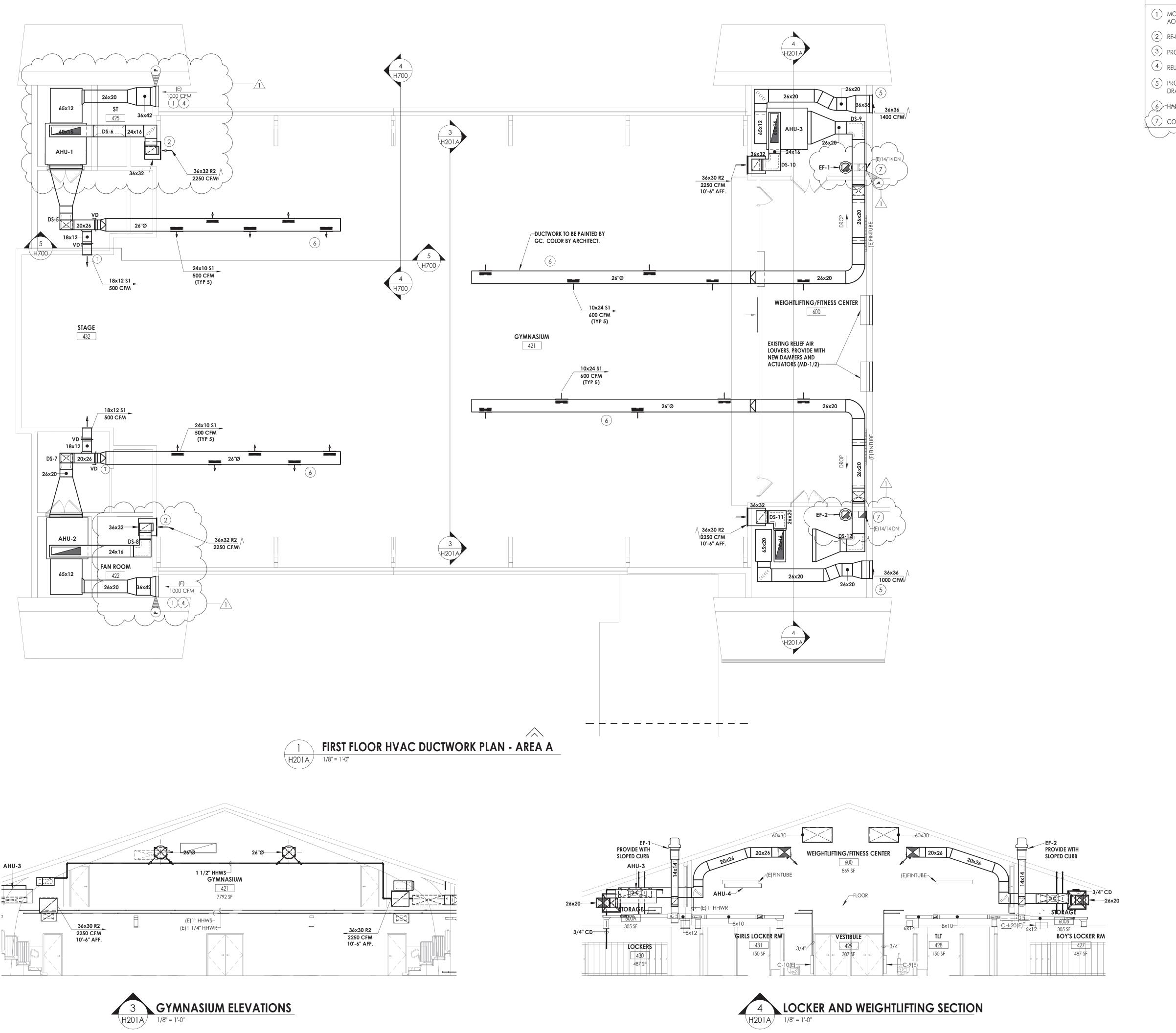
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NRH GROUND FLOOR HVAC

DUCTWORK PLAN - AREA B

H200B





MOUNT AIR HANDLING UNIT 12" ABOVE FINISHED FLOOR. MAINTAIN EQUIPMENT ACCESS REQUIREMENTS. EXTEND EXISTING CONTROLS TO NEW UNIT.

2 RE-USE EXISTING OPENING IN WALL, PROVIDE GRILLE.

3 PROVIDE NEW RETURN AIR LOUVER. COLOR BY ARCHITECT.

4 REUSE EXISTING 36"×42" SUPPLY AIR LOUVER.

5 PROVIDE NEW OUTDOOR AIR LOUVER. PROVIDE WITH BIRDSCREEN AND DRAINABLE BLADES.

6 HANG DUCTWORK WITH CABLE.

7 CONNECT NEW FAN TO EF WITH 14"X14" DUCTWORK.

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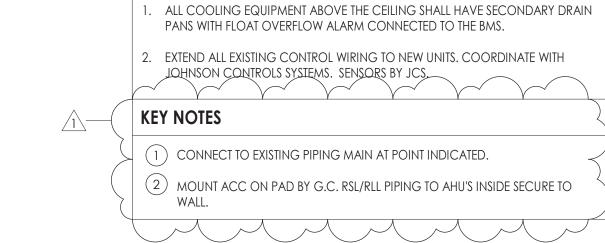
Drawing Title

FIRST FLOOR HVAC DUCTWORK

PLAN - AREA A

ing Number

HMS H201A



GENERAL NOTES



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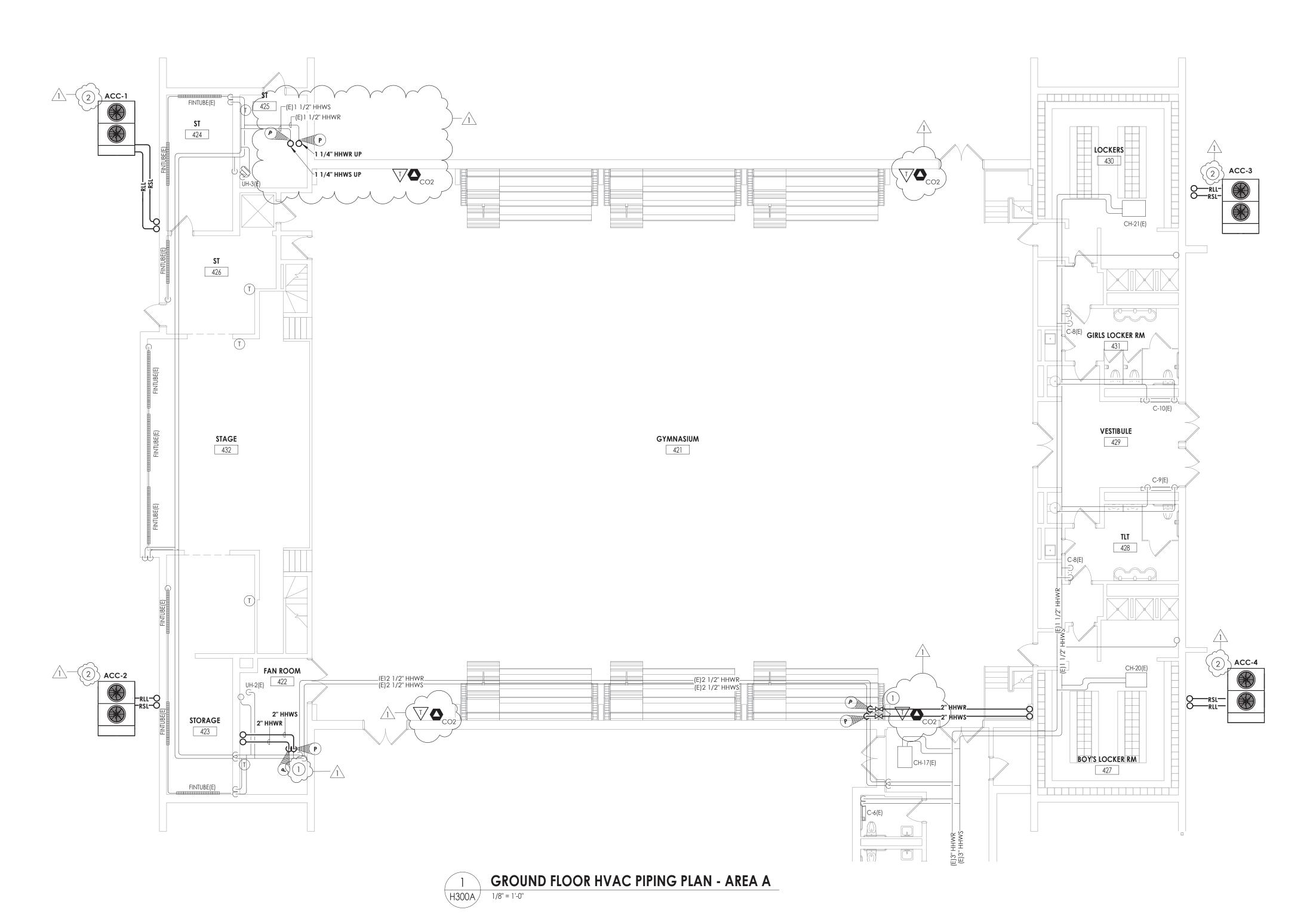
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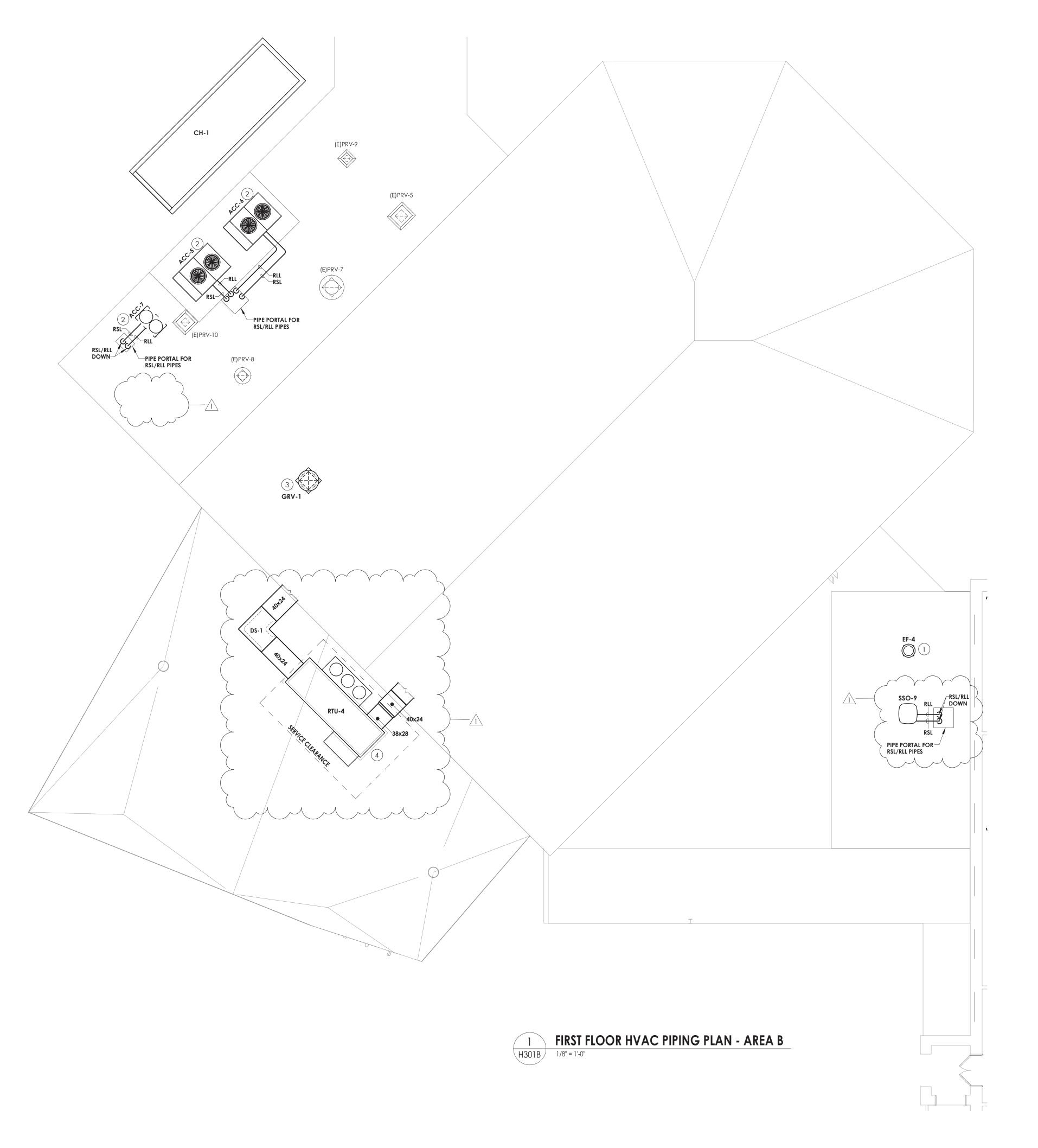
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NRH JJM GROUND FLOOR HVAC PIPING PLAN - AREA A





GENERAL NOTES

- 1. ALL COOLING EQUIPMENT ABOVE THE CEILING SHALL HAVE SECONDARY DRAIN PANS WITH FLOAT OVERFLOW ALARM CONNECTED TO THE BMS.
- 2. EXTEND ALL EXISTING CONTROL WIRING TO NEW UNITS. COORDINATE WITH JOHNSON CONTROLS SYSTEMS. SENSORS BY JCS.

KEY NOTES

- 1) INSTALL NEW RELIEF FAN ON EXISTING CURB.
- (2) PROVIDE NEW RAILS WITH VIBRATION ISOLATION FOR NEW CONDENSING UNIT.
- 3) PROVIDE NEW GRAVITY INTAKE AND SLOPED CURB. FIELD VERIFY ROOF SLOPE.
- 4 PROVIDE NEW ROOFTOP UNIT WITH 12" CURB.



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FIRST FLOOR HVAC PIPING PLAN -AREA B

GENERAL NOTES

- 1. ALL COOLING EQUIPMENT ABOVE THE CEILING SHALL HAVE SECONDARY DRAIN PANS WITH FLOAT OVERFLOW ALARM CONNECTED TO THE BMS.
- 2. EXTEND ALL EXISTING CONTROL WIRING TO NEW UNITS, COORDINATE WITH JOHNSON CONTROLS SYSTEMS. SENSORS BY JCS.

KEY NOTES

- 1) CONNECT NEW PIPING TO EXISTING PIPING AT POINTS INDICTAED. RE-INSULATE ANY EXISTING PIPING AT CONNECTED LOCATIONS.
- 2 CONNECT TO EXISTING TEMPERATURE CONTROLS.



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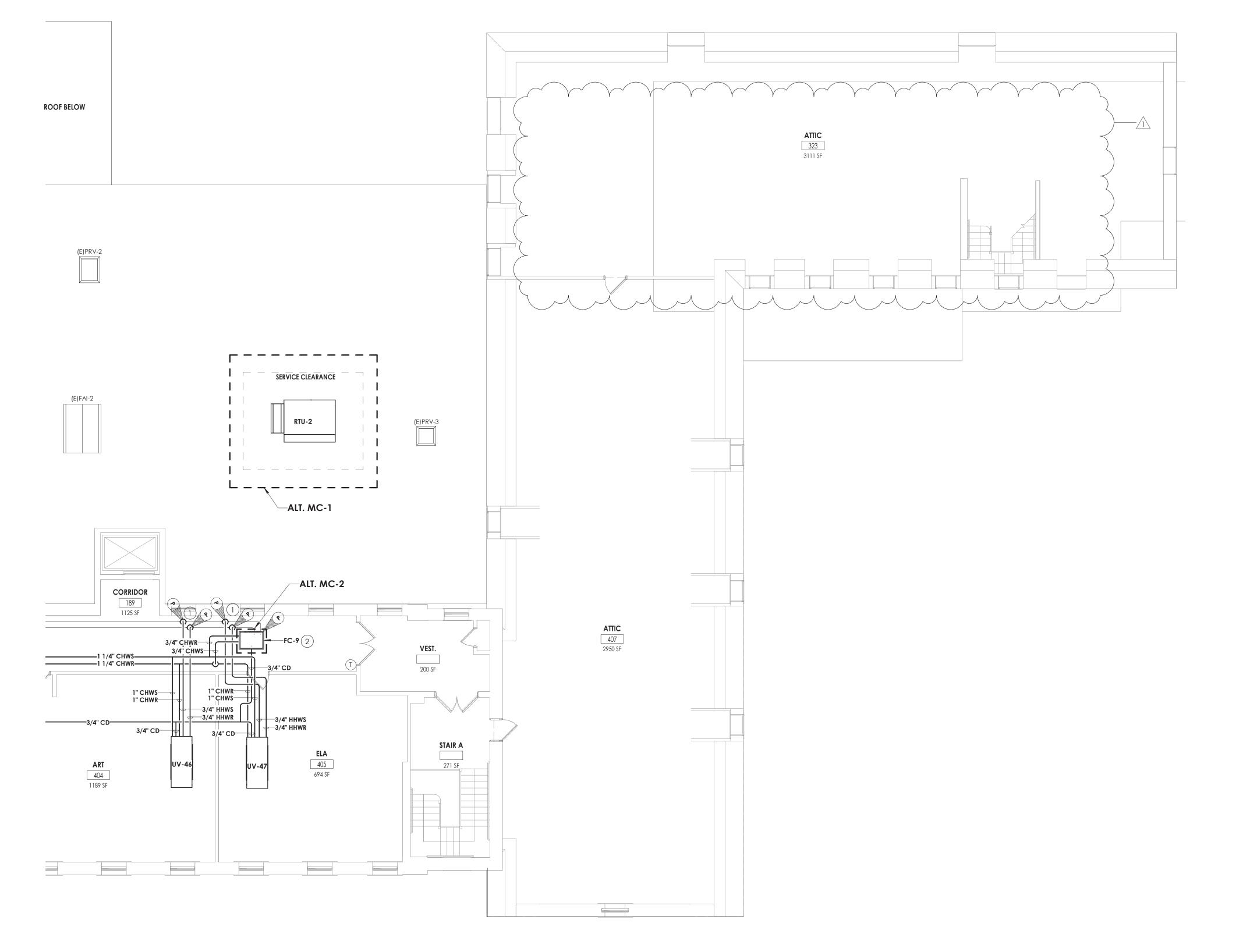
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KEYPLAN



1 THIRD FLOOR HVAC PIPING PLAN - AREA D

1/8" = 1'-0"

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Drawing Title

THIRD FLOOR HVAC PIPING PLAN - AREA D

Prawing Number HMS

													ROO	F TOP	ENEF	RGY RE	COVER	Y UNI	Γ									
			0.4	- ^	D.4		С	OOLING CO	IL			S	UPPLY FAN				E)	HAUST FAN			TOTAL MOULON/FD	TOTAL MADIL ON /ED	OPERATING		FLEOTE		TVDIOAL LINIT MEO	
MARK	LOCATION	AREA SERVED	(CFM)	(CFM)	(CFM)	TOTAL MBI	H SENS MBH	EAT	LAT	AMB	FAN TYPE	E.S.P. (IN. WC)	RPM	BHP	HP	FAN TYPE	E.S.P. (IN. WC)	RPM	ВНР	HP	TOTAL MBH SAVED SUMMER	TOTAL MBH SAVED WINTER	WEIGHT (LBS)	FILTERS	ELECTF REQUIRE V/Ø/HZ FLA		TYPICAL UNIT MFG & MODEL NO.	REMARKS:
RTU-4	CAFÉ ROOF	CAFETERIA	9100	6000	6000	486	320	79.7	54.07	75	PLENUM	1	1760	11.89	15	PLENUM	0.5	1760	9.39	10	183	511	3780	MERV 13	208/360 195	207	AAON RN-025-8-0- EB09-EJK	1,2,3,4
REMARKS:		OUNTED AND WIRED				,	FACTORY WIF			SWITCH,								•							·	•		

2. ECM CONDENSER FAN, HEAT PRESSURE CONTROL WITH SIGHT GLASS. REMOTE SAFETY SHUTDOWN TERMINAL. H JOHNSON CONTROLS FACILITY EXPLORER.

3. TERMINAL STRIP FOR BMS CONTROL OF FA	AN AND DAMPERS. COMPATIBLE WITH
4. DOUBLE WALL, R-13 FOAM INSULATION. S	TAINLESS STEEL DRAIN PAN.

		Al	R SEP	ARATO	R SCH	EDULE		
MARK	LOCATION	SERVED	GPM	WEIGHT (LBS)	DIA. (IN)	LNG. (IN)	STRAINER SQ. IN. FA	/ I V V
AS-1	CHILLER PUMP ROOM	CHILLED WATER	300	579	18	44	6	B&G R-6F
REMARKS:	1. 30% PROPYLENE GI	LYCOL.						

				PUM	PSCHE	DULE			
MARK	LOCATION	SERVICE	GPM	HD	EL	ECTRICAL DA	TA	TYPICAL UNIT MFG	REMARKS:
IVIAIXIX	LOCATION	SLITVICE	GFIVI	(FT.) `	HP) VOLTS	PH	& MODEL NO.	INLIVIATING.
P-1	STORAGE	CHILLED	300	80 /	15	208	3 >	B&G E-1510 3BD <	1,2,3
	423	WATER	000		10	200		Bas 2 1010 0BB	1,2,0
P-2	STORAGE	CHILLED	300	80	15	208	3	B&G E-1510 3BD	1,2,3
F-2	423	WATER	300	00		200	\ \ \	B&G E-1310 3BB	1,2,3
REMARKS:	1. 30% PROP	YLENE GLYC	OL.		7 . 7				7
İ	2. SUCTION D	DIFFUSER.				1	7		
1	3. WALL MOU	INTED VFD UI	NIT DISCONN	ECT.			`		\/1\

			VRF FA	N COIL U	NITS		1	
MARK	TOTAL AIRFLOW CFM	NOM.HEATING CAPACITY BTU/HR	NOM.COOLING CAPACITY BTU/HR	WEIGHT (LBS)	POWER (Ø/V/HZ)	AMPS	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
SSI-1	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-2	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-3	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-4	1500	27000	24000	47	1 / 208 / 60	- 0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-5	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-6	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-7	1500	27000	24000	47	1 / 208 / 60	0.28) SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-8	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5
SSI-9	250-430	21500	15000	23.4	1 / 208 / 60		SAMSUNG - AR12TSFABWKNCV	1,2,3,4,5
REMARKS:	1. UNIT MOUNTED	O AND WIRED DISCON	NECT.					
	2. BAC NET INTER	RGRATION TO BMS, JC	HNSON CONTROLS FA	CILITY EXPLORE	₹.			
	3. COLOR WHITE 4. DRAIN PAN LEV 5. CONDENSATE I	VEL SESORS.	/1\			1		

	•	EXPA	NSION	TANK S	SCHED	ULE		
MARK	LOCATION	SERVED	ACCEPT. GAL.	DIA (IN.)	HEIGHT (IN.)	WEIGHT FULL (LBS.)	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
ET-1	CHILLER PUMP ROOM	CHILLED WATER	79	20	58	992	TACO CA-300	1,2
REMARKS:	1. REMOVABLE BLADE	ER TYPE						1
	2. CHARGE TO 12PSI.							
	3. 30% PROPYLENE GL	YCOL.						

	-		:	-			:	÷		:	-
					FIN TUI	BE SCI	HEDUL	E			
MARK	BTU/FT.	GPM	TUBE	FINS /	EWT	EAT		ENCLOSUR	Ε	TYPICAL UNIT MFG	REMARKS:
IVIARK	BIU/FI.	GPIVI	SIZE (IN.)	FT.	(°F)	(°F)	H (IN.)	D (IN.)	STYLE	& MODEL NO.	REWARKS.
FT-1	720	5	3/4	40	180	65	10-3/4	6-1/16	PEDESTAL	STERLING JVB	1,2,3,4
REMARKS:	1. CONTROI	VALVES AB	OVE THE CEI	LING.	1	I .	1	1			-
	2. COLOR B	Y ARCHITEC	Т.								
	3. ELEMENT	LENGTH LIS	STED ON PLAN	NS. CAT - 662	89C RETURN						
	4. COORDIN	IATE HEIGHT	WITH ELECT	RICAL DEVIC	ES.						

						C	HILLE	R SCH	EDULE	•					
	NOMINAL	0/ DDOD		С	HILLED WATE	R		REFRIG	ERANT	EL	ECTRICAL D	ATA	WEIGHT	TYDICAL LINUT MEC	
MARK	CAPACITY (TONS)	% PROP GLYCOL	FLOW (GPM)	DELTA P (FT)	IPLV	EWT (°F)	LWT (°F)	REF. TYPE.	CHARGE (LB)	VOLTS/Ø	MCA	МОР	WEIGHT (LBS)	TYPICAL UNIT MFG & MODEL NO.	REMARKS
CH-1	180	30	270	17.42	20.516	56.97	42.00	134A	420.00	230/3	654	800	15700	TRANE-ACRB1805B	1,2,3,4
REMARKS:				DISCONNE	-										
	THE SCH	EDULED RE	FRIGERANT	CHARGE IS	A MANUFAC	TURERS ES	TIMATE, CO	ORDINATE TI	HE CORREC	T CHARGE B	ASED ON F	IELD CONDITI	ONS.		

FIVE YEAR COMPRESSOR WARRANTY. 4. HEAT TRACED EVAPORATOR BARREL AND EXTERIOR PIPING. HEAT TRACE SHALL BE ON SEPARATE 120V/20AMP CIRCUIT.

2. PROVIDE WITH 1" MERV 7 FILTERS 3. 30% PROPYLENE GLYCOL COOLING COIL.

CONDENSATE PUMP. 5. ALTERNATE NO. MC-2

						FAN	I COIL	UNIT SO	CHEDU	LE						
MARK	TYPE	LOCATION	MAX CFM		COOLING				HEATING		14/55	ELI	ECTRICAL DA	TA	TYPICAL UNIT MFG	REMARKS:
IVIARK	ITPE	LOCATION	IVIAX CFIVI	MBH	GPM	WPD	MBH	EWT (°F)	WATER ∆T	GPM	WPD FT WC	WATTS	VOLTS	PHASE	& MODEL NO.	REWARKS:
FC-1	DUCTED	159 CUSTODIAN	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-2	CEILING RECESSED	GROUND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4
FC-3	CEILING RECESSED	GROUND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-4	CEILING RECESSED	1ST FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-5	CEILING RECESSED	1ST FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-6	CEILING RECESSED	2ND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-7	CEILING RECESSED	2ND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-8	CEILING RECESSED	1ST FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-9	CEILING RECESSED	3RD FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-10	DUCTED	105B SCHOOL PYCHOLOGIST	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4
FC-11	CEILING RECESSED	3RD FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5

								AIR	HAND	LING	UNIT S	SCHED	ULE								
							COOLING	MBH				HOT WA	TER HEATING	G COIL DATA			SUPPLY	AN MOT	OR DATA		
MARK	ROOM SERVED	CFM	MIN. OA CFM	EXT. SP W.C.	TOTAL	SENS	ROWS	EAT °F DB/WB	LAT °F DB/WB	МВН	EWT	LWT	EAT °F	LAT °F	GPM	WPD FT-W.C.	BHP/HP	RPM	VOLTS/Θ	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
AHU-1	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4,5
AHU-2	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4,5
AHU-3	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4
AHU-4	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4
AHU-5	KITCHEN	2600	500	1	98.3	70.57	6	80/67	56.1/44.7	128.7	180	127	60.4/56.6	105.4/71.3	5	0.3	1.68/4	1552	208/3/60	AAON:H3-CRB-8-0-162C-12F	1,2,3,4,5
AHU-6	MUSIC	4200	1500	1.2	185.6	129.7	6	85.4/70.2	57.8/56.3	266.4	180	122.3	47.9/47.9	104.2/68.5	9.5	0.7	3.12/4	1901	208/3/60	AAON: H3-DRB-8-0-162C-12F	1,2,3,4,5
REMARKS:	1. FACTORY MOUNTED A	ND WIRE	D DISCONNECT	T. ALL UNITS	SHALL BE	SINGLE POINT	CONNECT	ON.	•	'		•		•			•				•

ATTIC CLASSROOM EA INLINE

INLINE

INLINE

INLINE

6250

4000

7250

0.75

816

1038

945

CLASSROOM EA

CLASSROOM EA

CLASSROOM EA

4. SPRING ISOLATORS.

REMARKS: 1. FACTORY MOUNTED AND WIRED DISCONNECT. 2. HINGED BASE AND BIRD SCREEN.

4. PROVIDE WITH SLOPPED CURBS.

3. ALTERNATE MC-5.

2. DAMPER ACTUATORS BY MANUFACTURER. FULLY MODULATING ACCUATORS. MERV 13 FILTERS. MAGNEHELIC HAUGE CLOG FILTER SWITCH. THERMAL EXPANSION VALVES. 3. CONNECT TO EXISTING JOHNSON CONTROLS, FACILITY EXPLORER.

RF-6

4. VIBRATION ISOLATION.

FINISH

WHITE

REGISTERS, GRILLES, AND DIFFUSERS

TYPE

LAY-IN

STEEL DUCT GRILLE WHITE

STEEL DUCT GRILLE WHITE

LAY-IN

WALL GRILLE WHITE

APPLICATION MATERIAL

SUPPLY

RETURN/EA

RETURN/EA

2. CONCEALED MOUNTING.

4. INSULATED BACK PAN.

REMARKS: 1. OPPOSED BLADE DAMPER.

STEEL

STEEL

STEEL

3. SINGLE DEFLECTION, BLADES PARALLEL TO LENGTH.

D1

D2

S1

5. CONTROLS RELOCATED BY OTHERS FROM EXISTING UNIT.

DESIGN EQUIP.

PRICE SPD

PRICE SDG

PRICE HCD

PRICE PDR

PRICE 90

REMARKS

4

1,3

2,3

						HOT	WATE	R COIL	SCHE	DULE				
				AIR DATA				WATER	R DATA		MEO 0175		TVDIOAL LINUT MEO	
MARK S	SERVICE	CFM	TEMF	P (°F)	MAX APD	MIN.	GPM	TEM	P (°F)	MAX APD	MFG SIZE HXL (IN.)	ROWS	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
		CFIVI	ENT	LVG	(IN. WC)	MBH	GPIVI	ENT	LVG	(IN. WC)	TIXE (IIV.)		a MODEL NO.	
HC-1	SF-9	2250	-2	70	0.76	174,960	18.8	180	160	3.8	15X22	2	CAPITAL COIL W8-2215-12B-HCA-R	1,2
HC-2	RTU-4	9100	-2	70	0.56	707,616	70.8	180	160	4.5	46X30	4	CAPITAL COIL	1
REMARKS: 1.	TUBE OD 0.	625, TUBE S	SPACING 1.50	X1.299										

					FAN	SCHE	DULE					
MARK	LOCATION	SERVICE	TYPE	CFM	SP	RPM		ELECTRICA			TYPICAL UNIT MFG	REMARK
IVIAIXIX	LOCATION		1176	CI IVI	IN W.G.	IXFIVI	HP	VOLTS	PHASE	AMPS	& MODEL NO.	INLIVIATOR
EF-1	GYM	LOCKER ROOM EXHAUST	CENTRIFUGAL	1500	0.75	1457	.25	115	1	3.8	GREENHECK G-100-VG	1,2,4
EF-2	GYM	LOCKER ROOM EXHAUST	CENTRIFUGAL	1500	0.75	1457	.25	115	1	3.8	GREENHECK G-100-VG	1,2,4
EF-3	ROOF	CLASSROOM EXHAUST	CENTRIFUGAL	2000	0.5	948	1/2	208	1	5.4	GREENHECK GB-161	1,2
EF-4	ROOF	MUSIC ROOM	CENTRIFUGAL	1400	1	1725	1/2	208	1	5.4	GREENHECK G-123-A	1,2
EF-5	ROOF	CLASSROOM EXHAUST	CENTRIFUGAL	1250	1	1725	1/2	208	1	4.9	GREENHECK G-123-1	1,2
EF-6	ROOF	CLASSROOM EXHAUST	CENTRIFUGAL	4500	1	1102	2	208	1	12	GREENHECK G-200	1,2
SF-1	ATTIC	CLASSROOM OA	INLINE	10000	1.5	824	5	208	3	16.7	GREENHECK BSQ-300	1
SF-2	ATTIC	CLASSROOM OA	INLINE	3750	0.4	539	1/2	208	3	2.4	GREENHECK BSQ-240	1
SF-3	ATTIC	CLASSROOM OA	INLINE	8750	1.5	1147	5	208	3	16.7	GREENHECK BSQ-240	1
SF-4	-	-	-	-	-	-	-	-	-	-	NOT USED	-
SF-5	-	-	-	-	-	-	-	-	-	-	NOT USED	-
SF-6	ATTIC	CLASSROOM OA	INLINE	7000	0.75	875	2	208	3	7.5	GREENHECK BSQ-240	1
SF-7	ATTIC	CLASSROOM OA	INLINE	7500	1	964	3	208	3	10.6	GREENHECK BSQ-240	1
SF-8	ATTIC	CLASSROOM OA	INLINE	6750	1.5	1012	5	208	3	16.7	GREENHECK BSQ-240	1
SF-9	TECH	CLASSROOM OA	INLINE	2250	0.5	992	1/2	208	1	5.4	GREENHECK BSQ-160	1,3
RF-1	ATTIC	CLASSROOM EA	INLINE	13750	1.25	675	7-1/2	208	3	24.2	GREENHECK BSQ-360	1
RF-2	ATTIC	CLASSROOM EA	INLINE	3750	0.8	949	1-1/2	208	3	6.6	GREENHECK BSQ-200	1
RF-3	ATTIC	CLASSROOM EA	INLINE	3750	0.4	539	1/2	208	3	2.4	GREENHECK BSQ-240	1
RF-4	ATTIC	CLASSROOM EA	INLINE	2500	0.25	585	1/3	208	3	2.4	GREENHECK BSQ-200	1
					1							

						ELECT	RICAL DATA	A		OPERATING		
MARK	LOCATION	SERVES	NOMINAL TONS	FA	AN	COMF	PRESSOR	VOLT/Ø	MCA	WEIGHT	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
				NO.	HP	QTY	RLA	VOLITO	IVICA	(LBS.)		
ACC-1	GYM	AHU-1	13	2	.75	2	20.4	208/3	59	1141	AAON CFA-013-B-A-8-DC00K	1,3
ACC-2	GYM	AHU-2	13	2	.75	2	20.4	208/3	59	1141	AAON CFA-013-B-A-8-DC00K	1,3
ACC-3	GYM	AHU-3	13	2	.75	2	20.4	208/3	59	1141	AAON CFA-013-B-A-8-DC00K	1,3
ACC-4	GYM	AHU-4	13	2	.75	2	20.4	208/3	59	1141	AAON CFA-013-B-A-8-DC00K	1,3
ACC-5	KITCHEN ROOF	AHU-5	8	2	1/3	2	16.1	208/3	39	1078	AAON CFA-009-B-A-8-DC00K	1,3,4
ACC-6	KITCHEN ROOF	AHU-6	15	2	.75	2	25	208/3	66	1143	AAON CFA-015-B-A-8-DC00K	1,3,4
AOC-7	KITCHEM ROOF	\$81-4 THRU 8	16	2	620W	2	28	208/3	\7 3 \	763	SAMSUNG AM192HXVAFH2AA	1,2,3,4
SSO-9	KITCHEN ROOF	SSI-9	1 _A	1	_λ 40W	1 _,	9.2	208/1	12.5	70.8	SAMSUNG AR12TSFABWKXÇV	1,2

1250 0.25 623 1/4 208 3 2.4

1-1/2

208

208

208

CPL | Architecture Engineering Planning 50 FRONT ST. SUITE 202 NEWBURGH, NY 12550

CPLteam.com

PROJECT INFORMATION

Project Number 13940.18

NEWBURGH ENLARGED CITY SCHOOL DISTRICT

PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT

Project Address 405 Union Avenue, New Windsor, NY 12553

SED Number 44-16-00-01-0-039-011

GREENHECK BSQ-160

GREENHECK BSQ-240

GREENHECK BSQ-200

GREENHECK BSQ-240

7.5

6.6

10.6

PROJECT ISSUE SCHEDULE

1 9/17/21 BID ADDENDUM #1

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION 09/09/2021 12" = 1'-0" Project Status CONSTRUCTION DOCUMENTS Drawn By NRH

HVAC SCHEDULES

Drawing Title

											IIT \/Eb	TIL A TO	COLLED										
									,	וט	AII AFN	IILAIO	R SCHED	ULE									
MARK	ROOM SERVES	OA FAN	EA FAN	UNIT TYPE	CFM	EXT. SP.	MCA ELEC	TRICAL VOLT/Ø	MIN. OA CFM	OA °F	NTER RA °F	FWT °F	HW EAT °F	COIL CAPACI	MBH	GPM	EWT °F	EAT °F	W COIL CAPAC	OITY MBH	GPM	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
UV-1	438	_	-	HORIZONTAL	1500	0.625	5.9	120/1	600	5	72	180	45.2	95	81049.5	4.2	45	79.8	56	38734.5	6.7	MAGICAIRE MAUH	1,2,4,5,6
UV-2	105	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	550	5	72	180	35.2	95	64937.3	3.3	45	81.6	56	27776.0	4.8	MAGICAIRE MAUH	1,2,4,5,6
UV-3	105A	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	450	5	72	180	41.9	95	57667.8	3.0	45	80.4	56	26474.0	4.5	MAGICAIRE MAUH	1,2,4,5,6
UV-4	106	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	4.6	MAGICAIRE MAUH	1,2,4,5,6
UV-5	104	(E)GRV-2	EF-6	HORIZONTAL	1500	0.625	5.9	120/1	675	5	72	180	41.9	95	86501.6	4.5	45	80.4	56	39711.0	6.8	MAGICAIRE MAUH	1,2,4,5,6,8
UV-6	101	(E)GRV-2	EF-5	HORIZONTAL	1000	0.625	5	120/1	525	5	72	180	36.8	95	63119.9	3.3	45	81.3	56	27450.5	4.7	MAGICAIRE MAUH	1,2,4,5,6,8
UV-7	114	SF-3	EF-6	HORIZONTAL	1500	0.625	5.9	120/1	675	5	72	180	41.9	95	86501.6	4.5	45	80.4	56	39711.0	6.8	MAGICAIRE MAUH	1,2,4,5,6,8
UV-8	113A	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	550	5	72	180	35.2	95	64937.3	3.3	45	81.6	56	27776.0	4.8	MAGICAIRE MAUH	1,2,4,5,6
UV-9		SF-3	RF-1	HORIZONTAL	1000		5			5	72	180	35.2	95	64937.3	3.3	45		56		5.7	MAGICAIRE MAUH	
UV-10				HORIZONTAL			5			5	72						45					MAGICAIRE MAUH	
UV-11										-													
UV-12										-													
UV-13										-													
UV-14							1			-													
UV-15							-			-													
UV-16							_			-													
UV-17 UV-18 (NOT USED)	209 SF-1 RF-1 HORIZONTAL 1000 0.625 5 120/1 500 5 72 180 40.2 95 59485.1 3.1 45 80.7 56 22795.5 5.5 MAGICARE MAJH 1.2.4.5.6 1.2.4.5 1.																						
UV-19 (NOT 03ED)	11 \$7-3 \$7-2 CARGONIA \$7-20 \$9-50 \$5-7 \$7-10 \$7-5 \$7-2 \$1-10 \$1-25 \$5-7 \$1-10 \$1-25 \$1																						
UV-20	7 114 93 97 600 109																						
UV-21	14																						
UV-22	150 P.																						
UV-23										-													
UV-24								_		-		-											
UV-25	14 93 84 SCHENORIA 2021 265 34 721 473 5 72 800 41 7 50 862114 43 43 45 804 30 8077 5 48 MORCHAR MIRE 12-5-6-6 12-5 13 13 13 14 14 14 14 14																						
UV-26	114 9-3 9-4 SECTION 1200 ASC 2-7 1201 ASC 2-7 1201 ASC																						
UV-27	14 93 94																						
UV-28	14 933 844 CAPPITON 1200 863 59 190 475 5 79 190 419 50 865 140 864 36 877100 481 MACCARRIVATE 124.54 127.75 140		1,2,4,5,6																				
UV-29	118 583 864 MORRONIAN 1000 6073 5 7091 565 6 77 110 557 864 59933 53 48 81 56 77726 57 MAGCARRAMINI 124.66 124.67 124.66 124.67 124.66 124.67 124.66 124.67 124.66 124.67 124.66 124.67 124.66 124.67 124.66 124.67 124.66 124.67 124.66 124.67 124.66 124.67 124.66 124.67 124.66 124.67 1																						
UV-30	12 SF-8 FF HORSOPIAL 1032 10.0																						
UV-31	193 543 541 1-09000 193																						
UV-32	138 58-5																						
UV-33	198 67-5 76-1 105000744 2000 2,622 8 1201 470 87 72 120 40.5 68 871217 30 45 85 45 45 45 45 45 45																						
UV-34	111 97 3 97 2 10 18 20 14 10 10 10 10 10 10 10 10 10 10 10 10 10																						
UV-35	10 573 376																						
UV-36	110 97-5 PS-1																						
UV-37	100 553 R51 MORGOTAL 1000 0.252 S 1201 470 S 72 130 0.5 95 S1227 30 45 80.5 52724 5.5 MAGCAR MARIN 12.5.55 1																						
UV-38	112 68-5 18-1 -406COLIA, 100 0.026 8 7001 575 5 72 700 34.5 99 618028 32 45 61.0 59 277250 5.6 AMAGCARRIMA, AMAGCARRIMA																						
UV-39	9 1138 58-3 58-1																						
UV-40	The color of the																						
UV-41	1188 958 751 HABEROLIA 1000 0.255 5 7201 500 5 77 150 552 79 667375 5.5 74 74 74 74 74 74 74 7																						
UV-43										-							_						
UV-45										-													
UV-46					_					5							_						
UV-47		$\overline{}$			$\overline{}$	$\overline{}$		-		5													
UV-48	/ I V I	V	V -	V	/ //		Y 5		- V	Y 5	1												
REMARKS:	()				_		ROM EXISTING			NEW UNIT.	15 12	100	55.5	/ / /	01002.0	JZ		01.0	- 50	2, 120.0	0.0	140 TOTO THE INFOUR	1,2,4,0,0
	2. COMPEN	SATE PUMP(LI	TTLE GHANTVO	CC-208, DRAIN PAM	HALÁRM. 🖍						J												
	4. ECM MO	TORS.								\													
	5. MERV 14	FILTERS.																					
	6. MOUNTED	ABOVE THE	CEILING.							\bigwedge_{1}													
	7. FLOOR M	OUNTED, PRO	OVIDE WITH NE	EW LOUVER AND LI	NTLE.					_ 1 \													
	8. ALTERNAT	ENO MO 2																					

				DUST COLI	LECTOR S	CHEDULI	E - ALTERI	NATE NO.	MC-5					
MARK	MANUFACTURER	MODEL	SERVICE	DESIGN AIRFLOW			FAN BLOWER				SHAKER	MOTOR		REMARKS:
IVIARN	WANUFACTURER	MODEL	SERVICE	DESIGN AIRFLOW	ESP. (IN.WG)	RPM	HP	ENCL.	V/PH/HZ	RPM	HP	ENCL.	V/PH/HZ	REWARNS.
DC-1	STERNVENT	DKPD 36007-2	TECH 08	2250 CFM	8	3450	7.5	TEFC	208/3/60	1150	1/3	TEFC	208/3/60	1,2,3,4,5,6
REMARKS:	1. BLOWER MOTOR S	SHALL BE AMCA "C" S	PARK RESISTANT C	ONSTRUCTION.										
	2. FACTORY MOUNT	ED AND WIRED NEMA	4 MAGNETIC START	ERS FOR BLOWER ANI	D SHAKER.									

3. TWO 55-GALLON DRUMS FOR DUST COLLECTION.

4. EXPLOSION RELIEF DOOR. 5. DUST SWITCH SYSTEM FOR INTERLOCKING DUST COLLECTOR OPERATION WITH SHOP EQUIPMENT.

6. FLAMEX SPARK SUPPRESION SYSTEM.

			LOUV	ER SCHE	DULE			
MARK	LOCATION	SERVICE	FREE AREA (SQ. FT.)	CFM	SP (IN. WG)	SIZE W&H (IN.)	TYPICAL UNIT MFG. & MODEL NO.	REMARKS
L-1	GYM	AHU-3	4.2	1400	0.15	36x36	RUSKIN ELF375D	1,2,3,
L-2	GYM	AHU-4	4.2	1400	0.15	36x36	RUSKIN ELF375D	1,2,3

2. DRAIN GUTTERS IN BLADES. 3. 4" DEEP, 37-1/2 DEGREE BLADES.

											:					
					ROO	FTOP A	AIR CO	NDITIO	NING L	INIT S	CHEDU	II F				
				CLIDDI									FLECT	DICAL		
		NOM		SUPPL	Y FAN						1	1	ELECT	RICAL	TYPICAL LINIT MEG	
MARK	LOCATION	-	CEM	OA CEM	ESP	DUD / UD	TOTAL	SENS	EAT	°F	I A T°E	VMD oE	VOLTIG	MCA		REMARKS:
		OFLOOR 12 4400 1100 1.2 3.8/5 127 109	MBH	DB	WB	LAIF	AIVID F	VOLITE	MCA	a MODEL NO.						
RTU-1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$															
RTU-2	LOCATION NOM. TONS CFM OA CFM ESP (IN. W.C.) BHP / HP TOTAL SENS MBH DB WB LAT°F AMB°F VOLT/Ø MCA TYPICAL UNIT MFG & MODEL NO.															
RTU-3	SUPPLY FAN DX COOLING ELECTRICAL TYPICAL UNIT MFG & MODEL NO. REMARKS: SUPPLY FAN DB WB LAT°F AMB°F VOLT/Ø MCA M															
REMARKS:	1. 14" INSULATE	D CURB. ALL	UNIT CONTR	OL ACTUAT	ORS FROM E	XISTING UNIT	RELOCATED	BY OTHERS	TO NEW UNI	Г.)						
\wedge	2. FACTORY MO	UNTED\AND \	WIRED DISCO	NNECT. 2" P	REFILTER, 4"	' MERY∕\14 FIL	TER. 🖊	~ \	~ \lambda	~ 5						
/1\/	3. DOUBLE WAS	/ — \	/ — \	/ - \						/						
	4. ALTERNATE N	•														

						SOUND A	TTENU	ATOR S	SCHEDULE									
											[OYNAMI	C INSER	RTION LO	OSS (DB	5)		
MARK	SERVES	CFM	WIDTH (IN)	HEIGHT (IN)	LENGTH (IN)	AIR DIRECTION	VELOCITY (FPM)	PD (IN. H2O)	TYPICAL UNIT MFG & MODEL NO.	63	125	250	500	1K	2K	4K	8K	REMARKS:
DS-1	RTU-1	9100	40	24	80	SUPPLY	1365	0.12	ERM80/4A	9	13	20	32	35	34	29	25	1,2,3
DS-2	RTU-1	9100	40	24	80	RETURN	1365	0.12	RM80/XB	9	12	17	25	17	13	11	10	1,2,3
DS-3	AHU-6	4200	30	14	45	SUPPLY	1440	0.13	ERM45/2A	7	10	16	21	26	26	23	20	1,2,3
DS-4	AHU-6	4200	30	14	45	RETURN	1440	0.13	ERM45/2A	7	11	19	23	27	26	22	20	1,2,3
DS-5	AHU-1	3500	26	20	48	SUPPLY	969	0.09	ERM48/1B	7	12	21	27	36	35	30	26	1,2,3
DS-6	AHU-1	2250	24	16	48	RETURN	844	0.05	ERM48/1A	7	11	19	25	31	31	26	23	1,2,3
DS-7	AHU-2	3500	26	20	48	SUPPLY	969	0.09	ERM48/1B	7	12	21	27	36	35	30	26	1,2,3
DS-8	AHU-2	2250	24	16	48	RETURN	844	0.05	ERM48/1A	7	11	19	25	31	31	26	23	1,2,3
DS-9	AHU-3	3500	26	20	48	SUPPLY	969	0.09	ERM48/1B	7	12	21	27	36	35	30	26	1,2,3
DS-10	AHU-3	2250	24	16	48	RETURN	844	0.05	ERM48/1A	7	11	19	25	31	31	26	23	1,2,3
DS-11	AHU-4	3500	26	20	48	SUPPLY	969	0.09	ERM48/1B	7	12	21	27	36	35	30	26	1,2,3
DS-12	AHU-4	2250	24	16	48	RETURN	844	0.05	ERM48/1A	7	11	19	25	31	31	26	23	1,2,3
REMARKS:	1. GALVANIZEI 2. INLET: 2" SL 3. VERIFY SIZE	IP, OUTLET	*	F LINER, FIBI	ERGLASS		,				1		1					

		GR	AVITY VEN	TILATOR S	CHEDULE			
MARK	LOCATION	SERVICE	THROAT AREA (SQ. FT.)	ROOF OPENING (IN)	AIR FLOW (CFM)	SP (IN. W.G.)	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
GRV-1	ROOF	CAFETERIA	4	26.5X26.5	1900	0.06	GREENHECK GRSI-24	1,2
REMARKS:	1. WIRE MESH E	BIRD SCREEN. D SLOPED CURB.						

4. FACTORY MOUNTED AND WIRED DISCONNECT.

		G	SLYCOL	FEED SYS	TEM		
MARK	PRESSURE RANGE (PSI)	CAPACITY GAL	V/PH/HZ	DIMENSIONS (WXDXH) IN	WEIGHT	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
GMP-1	10-70	50	110/1/60	34X34X45	134	WESSELS COMPANY GMP-13050	1,2,3,4
REMARKS:	1. ALARM KIT WITH PANEI	L AND FLOAT				,	
	2. FILL THE SYSTEM FULL	. TO 30% PROF	PYLENE GLYCOL				
	3. INTERNAL PRV.						

CPL | Architecture Engineering Planning 50 FRONT ST. SUITE 202 NEWBURGH, NY 12550 CPLteam.com

PROJECT INFORMATION

13940.18

Project Number

Client Name **NEWBURGH ENLARGED CITY** SCHOOL DISTRICT

Project Name PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL **IMPROVEMENT PROJECT**

Project Address 405 Union Avenue, New Windsor, NY 12553

SED Number 44-16-00-01-0-039-011

 PROJECT ISSUE SCHEDULE

 No.
 Date
 Description

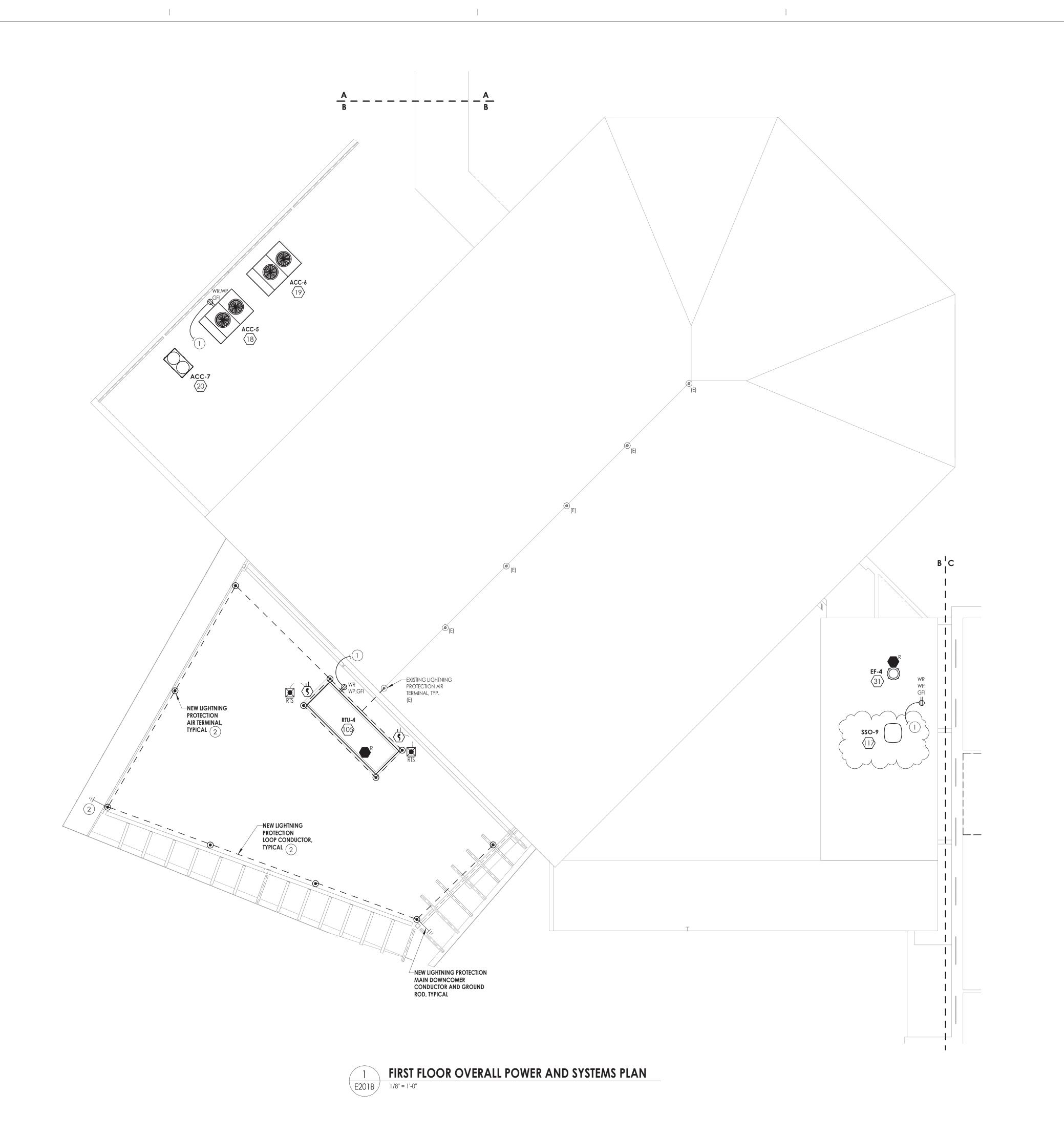
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 9/17/21
 BID ADDENDUM #1

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION Issued

09/09/2021 12" = 1'-0" Project Status CONSTRUCTION DOCUMENTS Drawn By NRH

Drawing Title HVAC SCHEDULES



GENERAL NOTES:

- A. FIXTURES, DEVICES, AND EQUIPMENT LABELED AS "(E)" ARE EXISTING AND ARE SHOWN FOR REFERENCE ONLY. ALL OF THESE DEVICES SHALL REMAIN OPERATIONAL FOLLOWING CONSTRUCTION.
- B. EQUIPMENT DESIGNATED WITH A NUMBER INSIDE OF A HEXAGON ARE SCHEDULED ON DRAWING E900. REFER TO EQUIPMENT WIRING SCHEDULE FOR BREAKER AND CIRCUITING INFORMATION.
- C. DISCONNECT SWITCHES AND STARTER DEVICES ASSOCIATED WITH HVAC EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR. INCLUDE AN ADDITIONAL 10' OF CIRCUITING IN PRICING FOR INSTANCES WHERE A DISCONNECT MAY NOT BE MOUNTED DIRECTLY ON UNIT. E.C. IS RSPONSIBLE TO WIRE BOTH LINE AND LOAD SIDES OF DISCONNECT.
- D. UPDATE PANELBOARD DIRECTORIES TO REFLECT CHANGES MADE TO CIRCUITS WITH LOAD(S) AND ROOM(S) SERVED. LABEL ANY UNUSED BREAKER AS SPARE AND TURN TO OFF POSITION.
- E. FIRE ALARM SCOPE OF THIS PROJECT INCLUDES INSTALLING A NEW SIMPLEX 4100ES PANEL TO SERVE NEW AND RENOVATED AREAS WHILE MAINTAINING EXISTING SIMPLEX 4020 PANEL. ALL EXISTING DEVICES REMOVED IN THE DEMOLITION PHASE OF THE PROJECT SHALL BE REMOVED FROM THE SYSTEM PROGRAMMING OF THE 4020 PANEL. NEW INITIATION AND NOTIFICATION DEVICES SHOWN SHALL BE CONNECTED TO AND COMPATIBLE WITH THE NEW SIMPLEX 4100ES FIRE ALARM CONTROL PANEL LOCATED IN CUSTODIAN ROOM 50. PROVIDE NEW NOTIFICATION APPLIANCE CIRCUIT PANELS (WITH SMOKE DETECTOR WITHIN 5') WITH BATTERIES WHERE REQUIRED TO ACCOMMODATE NEW NOTIFICATION DEVICES. LOCATE SAID NAC PANEL IN A STORAGE OR ELEC/MECH ROOM, AND WIRE TO NEAREST AVAILABLE PANELBOARD WITH (2)#12, #12 GND. IN 3/4" CONDUIT. FOR PRICING PURPOSES, ASSUME 150' PER CIRCUIT. PROVIDE 20/1 CIRCUIT BREAKER AS REQUIRED.
- ALARM INITATION DEVICES SHOWN SHALL NOT BE LOCATED IN DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.
- G. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3'-6" BUT LESS THAN 4'-0" ABOVE FINISHED FLOOR.

F. FIRE ALARM SPACING SHALL COMPLY WITH NFPA 72 REQUIREMENTS. ALL FIRE

- H. FOR PUBLIC MODE, WALL MOUNTED VISUALS AND AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR.
- I. THE MINIMUM REQUIRED CANDELA LEVEL IS INDICATED ADJACENT TO NEW VISUAL DEVICES. IF NOT INDICATED, MINIMUM ALLOWABLE SETTING IS 15 CANDELA.
- J. ACTIVATION OF BUILDING FIRE ALARM SYSTEM SHALL AUTOMATICALLY SHUT DOWN ALL FANS ASSOCIATED WITH HVAC UNITS IN THE BUILDING AS REQUIRED BY LOCAL, STATE, AND NATIONAL CODES. PROVIDE FIRE ALARM SHUT DOWN RELAYS IN EACH UNIT.
- K. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL NFPA 72 REQUIREMENTS. ANY ALTERED CIRCUIT(S) SHALL HAVE ALL FIRE ALARM INITIATION DEVICES TESTED IN THEIR ENTIRETY AND 10% OF NEIGHBORING ZONE/LOOP DEVICES.
- L. PROVIDE 8" ROUND, FLUSH MOUNTED, WHITE CEILING SPEAKERS WHERE SHOWN. NEW SPEAKERS SHALL BE CONNECTED TO AND COMPATIBLE WITH EXISTING BUILDING PUBLIC ADDRESS SYSTEM. EXPAND EXISTING SYSTEM WITH ADDITIONAL AMPLIFIERS AS REQUIRED AT HEAD END LOCATION FOR A COMPLETE OPERATIONAL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH OWNER.
- M. ALL CABLING ABOVE ACCESSIBLE CEILINGS SHALL BE SUPPORTED VIA J-HOOK. J-HOOKS SHALL NOT EXCEED 5'-0" SPACING. ALL CABLING ABOVE INACCESSIBLE SPACES AND CEILINGS OPEN TO STRUCTURE SHALL BE IN CONDUIT.
- N. ALL EXPOSED RACEWAY SHALL BE PAINTED TO MATCH CEILING/WALL FINISH. CONTRACTOR SHALL USE APPROVED PAINT COLOR/TYPE.
- O. NEW CARBON MONOXIDE DETECTORS SHALL BE ADDRESSABLE AND BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.

KEY NOTES:

- WIRE NEW GFI ROOFTOP SERVICE RECEPTACLE TO NEAREST 120V CONVENIENCE RECEPTACLE CIRCUIT IN CAFETERIA SPACE BELOW. WIRE WITH (2)#12, #12 GND. IN 1/2" CONDUIT.
- 2 PROVIDE EXTENSION TO EXISTING LIGHTNING PROTECTION SYSTEM.
- INSTALLATION SHALL INCLUDE: AIR TERMINALS, MAIN CONDUCTORS (DOWNCOMERS, ROOF LOOP CONDUCTORS, CONNECTION CONDUCTORS, AND GROUND LOOP CONDUCTORS), GROUND RODS, AND ALL CONNECTIONS. DOWNCOMERS TO BE INSTALLED IN 1" PVC CONDUIT AND ARE TO BE CONCEALED WITHIN BUILDING BLOCK OR STRUCTURE. GROUND ROD TO BE 3/4" X 10' MINIMUM COPPER CLAD STEEL ROD, MINIMUM 2 FEET FROM BUILDING. STEEL FRAMING OF BUILDING SHALL BE TIED INTO LIGHTNING PROTECTION SYSTEM.



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SHEET INFORMATION Issued

09/06/2021 AS NOTED
Project Status

CONSTRUCTION DOCUMENTS
Drawn By Checked By

RJD ARM

Drawing Title
FIRST FLOOR POWER AND
SYSTEMS PLAN - AREA B

bwing Number

HMS E201B

ITEAC "	84 A P-15	B	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				G SCHEDULE	DDE 4 1/25	BA11=1	01501115	BEAT A PICE
ITEM #	MARK AHU-1	Room Location STORAGE 604	VOLTS 208 V	PH 3	HP	FLA 8.0 A	(3) #12, #12G IN 3/4"C	15/3	P-10	2,4,6	REMARKS
2	AHU-2 AHU-3	STORAGE 606 STORAGE 600A	208 V 208 V	3		8.0 A 8.0 A	(3) #12, #12G IN 3/4"C (3) #10, #10G IN 3/4"C	15/3 15/3	P-10 P-9	8,10,12 8,10,12	1
4	AHU-4	STORAGE 600B	208 V	3		8.0 A	(3)#12, #12G IN 3/4"C	15/3	P-9	14,16,18	1
5	AHU-5 AHU-6	KITCHEN STORAGE 435	208 V 208 V	3		8.0 A 8.0 A	(3)#12, #12G IN 3/4"C (3)#12, #12G IN 3/4"C	15/3 15/3	PK-1 PK-1	2,4,6 8/10,12	1,6
7	SSI-9 RTU-1	SECURITY OFFICE ROOF	208 V 208 V	1 3		0.3 A 54.0 A	(2)#12, #12G IN 3/4"C (3)#4, #8G IN 1-1/4"C	20/2	P-9 MSB _A	28,30	1, 7, 19 д 1, 2, 5, 9 Г
9	RTU-2	ROOF	208 V	3		54.0 A	(3)#4, #8G IN 1-1/4"C	90/3	MSB		1,2,5,9
10	RTU-3 PUMP P-1	ROOF PUMP ROOM 423	208 V 208 V	3	15 HP	54.0 A 48.3 A	(3)#4,#8G IN 1-1/4"C (3)#4, #8G IN 1-1/4"C	90/3	MSB P-9	1,3,5	1, 5, 9
12	PUMP P-2	PUMP ROOM 423	208 V	3	15 HP	48.3 A	(3)#4, #8G IN 1-1/4"C	90/3	P-9	7,9,11	1
13 14	FC-1 ACC-1	CUSTODIAN ROOM 159 EXTERIOR AT GRADE	120 V 208 V	3		1.0 A 57.0 A	(2)#12, #12G/N 3/4"C (3)#4, #8G IN 1-174"C	20/1 80/3	P3, SEC. 1 P-10	1,3,5	1, 5, 18
15 16	ACC-2 ACC-3	EXTERIOR AT GRADE EXTERIOR AT GRADE	208 V 208 V	3		57.0 A 57.0 A	(3)#4, #8G IN 1-1/4"C (3)#4, #8G IN 1-1/4"C	80/3 80/3	P-10 P-10	7,9,11 13,15,17	1
17	ACC-4	EXTERIOR AT GRADE	208 V	3		57.0 A	(3)#4, #8G IN 1-1/4"C	80/3	P-10	19,21,23	1
18 19	ACC-5 ACC-6	KITCHEN ROOF KITCHEN ROOF	208 V 208 V	3		38.0 A 63.0 A	(3) #8, #10G IN 1"C (3) #4, #8G IN 1-1/4"C	50/3 90/3	P-9 P-9	19,21,23 25,27,29	1
20	ACC-7 EF-2	KITCHEN ROOF STORAGE 600B	208 V	3	1/4 HP	70.0 A	(3)#4, #8G IN 1-1/4"C	90/3	P-9 P-9	31,33,35	1
21	SSI-1	CAFETERIA 448	120 V 208 V	1	1/4 ПР	3.8 A 0.3 A	(3)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1 15/2	P-9 P-9	2,4	1, 7
23 24	SSI-2 SSI-3	CAFETERIA 448	208 V 208 V	1		0.3 A 0.3 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	15/2 15/2	P-9 P-9	2,4	1, 7
25	SSI-4	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4"C	15/2	P-9	2,4	1, 7
26 27	SSI-5 SSI-6	CAFETERIA 448 CAFETERIA 448	208 V 208 V	1		0.3 A 0.3 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	15/2 15/2	P-9 P-9	2,4 2,4	1, 7
28	CH-1	EXTERIOR GRADE STORAGE 600A	208 V 120 V	3	1 / A LID	560.0 A 2	SETS OF (3) #500, #1/0G IN 3-1/2"C	800/3	DP-HVAC P-8	-	1, 17
29 30	EF-1 EF-3	ROOF	208 V	1	1/4 HP 1/2 HP	5.4 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1 20/2	P-11	16,18	1, 5
31 32	EF-4 EF-5	ROOF ROOF	208 V 208 V	1	1/2 HP 1/2 HP	5.4 A 4.9 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/2	P3, SEC. 2 P-11	38,40 16,18	1, 8
33	EF-6	ROOF	208 V	1	2 HP	12.0 A	(2)#12, #12G IN 3/4"C	20/2	P-11	20,22	1
34 35	FC-2 UV-1	GROUND FLOOR CORRIDOR MUSIC 438	120 V 120 V	1		1.0 A 4.7 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P-1A P-8	14	1, 2, 15, 18
36	UV-2	ROOM 105	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P1, SEC. 1	32	1, 10, 18
37 38	UV-3 UV-4	ROOM 105A CORRIDOR - GROUND	120 V 120 V	1		4.0 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1 20/1	P1, SEC. 1 P1, SEC. 1	32 32	1, 10, 18 1, 10, 18
39 40	UV-5 UV-6	ROOM 104 ROOM 101	120 V 120 V	1		4.7 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1 20/1	P1, SEC. 1 P1, SEC. 1	33 35	1, 2, 5, 18 1, 2, 5, 18
41	UV-7	ROOM 114	120 V	1		4.0 A 4.7 A	(2)#12, #12G IN 3/4°C	20/1	P-2	-	1, 2, 5, 18
42 43	UV-8 UV-9	ROOM 113A ROOM 113B	120 V	1		4.0 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P2, SEC. 2 P2, SEC. 2	35 35	1, 10, 18 1, 10, 18
44	UV-10	ROOM 112	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P2, SEC. 2	35	1, 10, 18
45 46	UV-11 UV-12	ROOM 109 ROOM 110	120 V 120 V	1		4.0 A 4.7 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P2, SEC. 2 P2, SEC. 2	33 33	1,10, 18
47 48	UV-13 UV-14	ROOM 111 ROOM 206	120 V 120 V	1		4.7 A 4.0 A	(2)#12, #12G IN 3/4"C	20/1 20/1	P2, SEC. 2 P3, SEC. 1	33 35	1, 10, 18 1, 10, 18
49	UV-15	ROOM 204	120 V	1		4.0 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P3, SEC. 1	35	1, 10, 18
50 51	UV-16 UV-17	ROOM 203 ROOM 202	120 V 120 V	1		4.0 A 4.7 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P3, SEC. 1 P3, SEC. 1	35 20	1, 10, 18 1, 10, 18
53	UV-19	ROOM 209	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P4, SEC. 2	40	1, 8, 18
54 55	UV-20 UV-21	ROOM 215 ROOM 214	120 V 120 V	1		4.0 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P4, SEC. 2 P4, SEC. 2	9	1, 10, 18 1, 10, 18
56	UV-22	ROOM 216	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P4, SEC. 2	9	1, 10, 18
57 58	UV-23 UV-24	ROOM 212 ROOM 213	120 V 120 V	1		4.0 A 4.7 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P4, SEC. 2 P4, SEC. 1	40 19	1, 8, 18
59 60	UV-25 UV-26	ROOM 210 ROOM 306	120 V 120 V	1		4.0 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1 20/1	P4, SEC. 2 P5, SEC. 1	40 17	1, 8, 18 1,10, 18
61	UV-27	ROOM 305	120 V	1		3.7 A	(2)#12, #12G IN 3/4°C	20/1	P5, SEC. 1	17	1,10, 18
62	UV-28 UV-29	ROOM 304 ROOM 309	120 V	1		4.7 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1 P5, SEC. 1	33 20	1,8,18
64	UV-30	ROOM 310	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1	20	1, 10, 18
65 66	UV-31 UV-32	ROOM 303 ROOM 302	120 V 120 V	1		4.0 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1 P5, SEC. 1	22 22	1,10, 18 1, 10, 18
67 68	UV-33 UV-34	ROOM 311 ROOM 312	120 V 120 V	1		4.0 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1 20/1	P6, SEC. 2 P6, SEC. 2	18 18	1, 10, 18 1,10, 18
69	UV-35	ROOM 301	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1	22	1, 10, 18
70 71	UV-36 UV-37	ROOM 321 ROOM 320	120 V 120 V	1		3.7 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P6, SEC. 1 P6, SEC. 2	29 18	1, 11, 18
72	UV-38	ROOM 318	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P6, SEC. 1	27	1, 10, 18
73 74	UV-39 UV-40	ROOM 317 ROOM 316	120 V 120 V	1		4.0 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P6, SEC. 1 P6, SEC. 1	27 27	1, 10, 18 1, 10, 18
75 76	UV-41 UV-42	ROOM 313 ROOM 314	120 V 120 V	1		4.0 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1 20/1	P-11 P-11	14	1, 18 1, 18
77	UV-43	ROOM 315	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P-11	14	1, 18
78 79	UV-44 UV-45	ROOM 307 ROOM 402	120 V	1		4.0 A 4.7 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1 P7	20 29	1, 10, 18 1, 10, 18
80	UV-46	ROOM 404	120 V	1		4.7 A	(2)#12, #12G IN 3/4"C	20/1	P7	18	1, 10, 18
81 82	UV-47 UV-48	ROOM 405 ROOM 401	120 V 120 V	1		4.0 A 4.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1	P7 P7	18 29	1, 10, 18 1, 10, 18
83 84	FC-5 SF-1	FIRST FLOOR CORRIDOR ATTIC	120 V 208 V	1 3	5 HP	1.0 A 16.7 A	(2)#12, #12G IN 3/4"C (3)#8, #10G IN1"C	20/1 35/3	P4, SEC. 1 P-11	20 31,33,35	1, 2, 16, 18
85	SF-2	ATTIC	208 V	3	1/2 HP	2.4 A	(3)#12, #12G IN 3/4"C	20/3	P-11	25.27,29	1
86 89	SF-3 SF-6	ATTIC ATTIC	208 V 208 V	3	5 HP 2 HP	16.7 A 7.5 A	(3)#8, #10G IN 1"C (3)#12, #12G IN 3/4"C	35/3 20/3	P-11 P-11	2,4,6 7,9,11	1
90	SF-7	ATTIC	208 V	3	3 HP	10.6 A	(3)#12, #12G IN 3/4"C	20/3	P-11	13,15,17	1
91 92	SF-8 RF-1	ATTIC ATTIC	208 V 208 V	3	5 HP 7-1/2 HP	16.7 A 24.2 A	(3)#8, #10G IN 1"C (3)#8, #10G IN 1"C	35/3 50/3	P-11 P-11	1,3,5 37,39,41	1
93 94	RF-2 RF-3	ATTIC ATTIC	208 V 208 V	3	1-1/2 HP	6.6 A 2.4 A	(3)#12, #12G IN 3/4"C (3)#12, #12G IN 3/4"C	20/3 20/3	P-11 P-11	25,27,29 25,27,29	1
95	RF-4	ATTIC	208 V	3	1/3 HP	2.4 A	(3)#12, #12G IN 3/4"C	20/3	P-11	8,10,12	1
96 97	RF-5 RF-6	ATTIC ATTIC	208 V 208 V	3	1/4 HP 2 HP	2.4 A 7.5 A	(3)#12, #12G IN 3/4"C (3)#12, #12G IN 3/4"C	20/3	P-11 P-11	8,10,12 19,21,23	1 1
98	RF-7	ATTIC	208 V	3	1-1/2 HP	6.6 A	(3)#12, #12G IN 3/4"C	20/3	P-11	28,30,32	1
99 100	RF-8 DC-1 FAN MOTOR	ATTIC EXTERIOR AT GRADE	208 V 208 V	3	3 HP 7.5 HP	10.6 A 25.3 A	(3)#12, #12G IN 3/4"C (3)#8, #10G IN 1"C	20/3 50/3	P-11 PT-2	34,36,38 3,5,7	1, 2, 4, 8, 14
101 102	DC-1 SHAKER MOTOR EJECTOR PUMP EP-1	EXTERIOR AT GRADE BOILER ROOM	208 V 120 V	3	1/3 HP	2.5 A 7.2 A	(3) #12, #12G IN 3/4"C (2) #12, #12G IN 3/4"C	20/3	PT-2 P1, SEC. 1	32,34,36 41	1, 2, 4, 8
103	EJECTOR PUMP EP-2	BOILER ROOM	120 V	1	1/3 HP	7.2 A	-	-	-	-	3, 8,12
104 105	GMP-1 RTU-4	PUMP ROOM CAFETERIA ROOF	120 V 208 V	1 3	1/3 HP	7.2 A 195.0 A	(2)#12, #12G IN 3/4"C (3)#500, #2G IN 3-1/2"C	20/1 250/3	P-9 MSB	6 -	1
106	SSI-7	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4"C	15/2	P-9	2,4	1, 7
107 108	SSI-8 SF-9	CAFETERIA 448 TECH ROOM 113B	208 V 208 V	1	1/2 HP	0.3 A 5.4 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	15/2 20/2	P-9 PT-2	2,4 38,40	1, 7
109	FC-6	SECOND FLOOR CORRIDOR	120 V	1		1.0 A	(2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1	31	1, 2, 8
110 111	FC-7 FC-8	SECOND FLOOR CORRIDOR FIRST FLOOR CORRIDOR	120 V 120 V	1		1.0 A 1.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1 20/1	P6, SEC. 1 P-3A	25 22	1, 2, 16 1, 2, 15, 18
112 113	FC-9 FC-10	THIRD FLOOR CORRIDOR GROUND FLOOR CONF. ROOM	120 V 120 V	1		1.0 A 1.0 A	(2)#12, #12G IN 3/4"C (2)#12, #12G IN 3/4"C	20/1 20/1	P7	18	1, 2, 5, 18 1, 15, 18
114	FC-11	THIRD FLOOR CORRIDOR	120 V	1		1.0 A	(2)#12, #12G IN 3/4"C	20/1	P-1A P7	14 30	1, 2, 5, 18
115	FC-3 FC-4	GROUND FLOOR CORRIDOR FIRST PLOOR CORRIDOR	120 V	1		1.0 A	(2)#12, #12G IN 3/4"C (2)#T2, #12GW 3/4"C	20/1	P2, SEC. 1	24	1, 2, 8, 18
116 γ		ROOF	208 V	1	Y	9.8 A	(2)#12, #12G (3) 4"C (2) #12, #12G (3) 4"C	20/2	P-9	28,30	1, 4, 10, 18

GENERAL NOTES:

- A. UNLESS NOTED OTHERWISE, PROVIDE NEW CIRCUIT BREAKER IN PANELBOARD FOR EQUIPMENT AS SCHEDULED. BREAKER SHALL BE U.L. LISTED AND LABELED FOR USE IN PANELBOARD. INTERRUPTING RATING OF BREAKER SHALL MATCH PANELBOARD.
- B. REVISE PANELBOARD DIRECTORY WITH NEW CIRCUIT LOADS ADDED. REFER TO IDENTIFICATION SPECIFICATION SECTION.

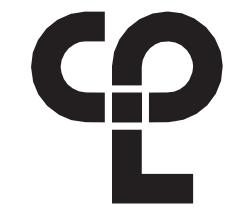
REMARKS:

- 1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE MOUNTING, AND LINE/LOAD SIDE CONNECTIONS OF DISCONNECT AND/OR STARTER DEVICE ASSOCIATED WITH UNIT. MEANS OF DISCONNECT AND/OR STARTER DEVICE ASSOCIATED WITH UNIT PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.
- 2. EQUIPMENT AND ASSOCIATED BREAKER AND BRANCH CIRCUIT WIRING ARE PART OF AN ALTERNATE. REFER TO AREA POWER AND SYSTEMS PLANS AND MECHANICAL NEW WORK PLANS.
- 3. PROVIDE 20A GFI RECEPTACLE FOR EQUIPMENT CORD CONNECTED PUMP AS SHOWN ON POWER AND SYSTEMS PLAN.
- 4. PROVIDE EXTERIOR SAFETY DISCONNECT AS SHOWN ON POWER PLAN.
- 5. WIRE TO EXISTING BRANCH CIRCUIT LEFT FROM DEMOLITION OF HVAC UNIT IN SAME LOCATION. SPLICE AND EXTEND EXISTING CIRCUIT WITH WIRING NOTED.
- 6. PROVIDE NEW BREAKER IN SPACE LEFT FROM DEMOLITION OF HVAC OCP. PANEL PK-1 IS A 400A CUTLER-HAMMER PRL1 PANEL.
- 7. PROVIDE 120V POWER IN J-BOX AT EACH SSI UNIT FOR CONNECTION TO UNIT REMOTE CONDENSATE PUMP. WIRE ALL (9) SSI PUMP CONNECTIONS TOGETHER WITH (2) #12, #12 GND IN 1/2" CONDUIT AND WIRE TO PANEL P-9, CIRCUIT 15.
- 8. PROVIDE NEW BREAKER IN EXISTING PANELBOARD. PANEL IS A 208/120V CUTLER-HAMMER PRL1 PANEL.
- 9. EXISTING FEEDER WILL BE REUSED FOR NEW EQUIPMENT. BREAKER WILL BE REPLACED AS PART OF THE MSB REPLACEMENT.
- 10. WIRE TO SPARE 20/1 BREAKER IN PANEL LEFT FROM DEMOLITION OF UV'S.
- 11. WIRE TO EXISTING BRANCH CIRCUIT LEFT IN ROOM FROM DEMOLITION OF UV. NOTE THAT OTHER EXISTING TO REMAIN CEILING HEATERS WILL CONTINUE TO SHARE THIS CIRCUIT.
- 12. PROVIDE NEW GFI RECEPTACLE AND BRANCH CIRCUIT AS NOTED FOR NEW EP-1.
- 13. REMOVE EXISTING DUPLEX RECEPTACLE. INSTALL NEW GFI RECEPTACLE AND CONNECT TO EXISTING BRANCH CIRCUIT WIRING.
- 14. INSTALL NEW DUST COLLECTOR FAN MOTOR BREAKER IN SPACE LEFT FROM DEMOLITION OF OLD DUST COLLECTOR.
- 15. BREAKER NOTED IS AN EXISTING SPARE, UNUSED 20A/1P BREAKER IN PANEL.
- 16. EXISTING 20/1 BREAKER IN PANEL WITH SHARED CORRIDOR HVAC UNITS.
- 17. PROVIDE 20A, 120V CIRCUIT FOR HEAT TRACE ON EXTERIOR PIPING AND EVAPORATOR. WIRE TO PANEL P-9, CIRCUIT 17. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL HEAT TRACE AND ELECTRICAL CONTRACTOR SHALL MAKE ALL WIRING TERMINATIONS.
- 18. WHRE ASSOCIATED REMOTE CONDENSATE PUMP TO BRANCH WIRING SERVING ASSOCIATED UV/FC HVAC UNIT. WHRE WITH (2) #12, #12 GND IN 1/2" CONDUNT.
- 19. OUTDOOR UNIT SSO-9 SHALL PROVIDE 208V SINGLE PHASE POWER TO INDOOR UNIT SSI-9 VIA #14 AWGx3 INTERCONNECT CABLE. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CABLE.

		LUMINAIRE SCHEDULE			
TYPE	DESCRIPTION	MANUFACTURER	MODEL	LOAD	COMMENTS
E1	UNIVERSAL MOUNT DIE-CAST ALUMINUM EXIT SIGN WITH WHITE FINISH, RED LETTERS, EMERGENCY BATTERY UNIT, AND SELF-DIAGNOSTICS	DUAL-LITE	SE-S-R-W-E-I	3 VA	7
L1	RECESSED 2X4 EDGE-LIT FLAT PANEL WITH 0-10V DIMMING, FROSTED LENS, AND SWITCHABLE LUMEN OUTPUT	COLUMBIA LIGHTING	CFP24-55/41/3440	40 VA	1, 3
L2	4' LONG, EXTERIOR WALL MOUNTED FIXTURE WITH 12" FIXED ARM MOUNTING, 2,000 LUMEN OUTPUT, ALUMINUM FINISH, INTEGRAL OCCUPANCY SENSOR WITH DAYLIGHT DIMMING CONTROL, AND BATTERY BACK UP EMERGENCY UNIT	ARCHITECTURAL AREA LIGHTING	RND-4-5-4K8-AS-DL-UNV-PSS-F12-NXOSW-EM	25 VA	9
L3	RECESSED 2X2 EDGE-LIT FLAT PANEL WITH 4072 LUMEN OUTPUT, 0-10V DIMMING, AND FROSTED LENS	COLUMBIA LIGHTING	CFP22-4040 (PLD10M-PLRTS)	40 VA	1, 2
L4-4'	4' LINEAR PENDANT WITH 3-9/16" DIAMETER ALUMINUM HOUSING, CABLE MOUNTING, SATINE LENS, 0-10V DIMMING, AND 1126 LUMENS PER FOOT	SELUX	PL9LR-1C45-940-SD-C-04'-WH-U-DIM (EMR)	44 VA	2, 4, 10
L4-8'	8' LINEAR PENDANT WITH 3-9/16" DIAMETER ALUMINUM HOUSING, CABLE MOUNTING, SATINE LENS, 0-10V DIMMING, AND 1126 LUMENS PER FOOT	SELUX	PL9LR-1C45-940-SD-C-08' RUN-WH-U-DIM (EMR)	89 VA	2, 4, 10
L4-12'	12' LINEAR PENDANT WITH 3-9/16" DIAMETER ALUMINUM HOUSING, CABLE MOUNTING, SATINE LENS, 0-10V DIMMING, AND 1126 LUMENS PER FOOT	SELUX	PL9LR-1C45-940-SD-C-12' RUN-WH-U-DIM	133 VA	4
L5	48" DIAMETER RING PENDANT WITH CUSTOM COLOR (BLUE) METAL OUTER BODY, MATTE WHITE ACRYLIC INNER DIFFUSER, DIRECT/INDIRECT DISTRIBUTION, 0-10V DIMMING, 7773 LUMEN OUTPUT, AND CABLE MOUNTING	CAMMAN LIGHTING	P2410-48-LH-40K-CLV-MV-WM-STBD-ACC (REM)	69 VA	2, 5
L6	18" DIAMETER PENDANT WITH MATTE WHITE METAL OUTER BAND, FLAT WHITE ACRYLIC BOTTOM LENS, 0-10V DIMMING, CABLE MOUNTING, AND 4027 LUMEN OUTPUT	CAMMAN LIGHTING	P1003-18-LH-40K-CLV-MV-WM-STBD-AC	63 VA	5
L7	4" WIDE RECESSED PERIMETER LUMINAIRE WITH 645 LUMEN/FOOT OUTPUT, 7W/FT, SATIN ACRYLIC REGRESSED LENS, GRID MOUNTNG, AND 0-10V DIMMING	DAY-O-LITE	WPPL-4-SI-40-SO-XFT-G-W		6
L8	RECESSED 1X4 EDGE-LIT FLAT PANEL WITH 5500 LUMEN OUTPUT, 0-10V DIMMING, AND FROSTED LENS	COLUMBIA LIGHTING	CFP14-5540 (PLD10M-PLRTS)	50 VA	1, 2
S	EXISTING SALVAGED LUMINAIRE RE-INSTALLED			40 VA	8

COMMENTS:

- 1. FIXTURE SHALL BE DLC QUALIFIED WITH A MINIMUM 5 YEAR WARRANTY.
- 2. WHERE NOTED ON PLAN AS "/EM" OR "/NL", PROVIDE FIXTURE WITH EMERGENCY BATTERY BACK-UP UNIT TO PROVIDE A MINIMUM OF 90 MINUTES OF ILLUMINATION. PROVIDE ASSOCIATED REMOTE TEST SWITCH AND CHARGE INDICATOR MODULE. INSTALL IN SINGLE GANG RECESSED BOX ADJACENT TO FIXTURE.
- 3. SET INITIAL LUMEN OUTPUT OF SWITCHABLE FIXTURE TO 4100.
- 4. FINAL END CAP COLOR TO BE DETERMINED AT SUBMITTAL TIME.
- 5. PROVIDE FINISH COLOR SAMPLES FOR FINAL OUTER RING SELECTION. PROVIDE SAMPLES OF PAL (ALUMINUM), PMW (MATTE WHITE), PSG (SATIN GOLD), AND PBL (SIGNAL BLUE). INCLUDE COST OF A CUSTOM COLOR TO MATCH SCHOOL BLUE IN QUOTE.
- 6. PERIMETER FIXTURE SHALL BE WALL TO WALL BETWEEN ROOM CORNERS AND COLUMNS. CONTRACTOR SHALL VERIFY FINAL LENGTHS IN FIELD PRIOR TO FINAL ORDERING OF FIXTURES. COORDINATE WITH GENERAL CONTRACTOR DURING INSTALLATION.
- 7. PROVIDE EXIT SIGN FIXTURE WITH EMERGENCY BATTERY BACK-UP UNIT TO PROVIDE A MINIMUM OF 90 MINUTES OF ILLUMINATION.
- 8. FIXTURE TO BE RE-INSTALLED IN NEW CEILING GRID. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY FIXTURE AND/OR LENS THAT WAS DAMAGED DURING REMOVAL/REINSTALLATION. FIXTURE AND/OR LENS SHALL BE OF MATCHING STYLE AS REMOVED EQUIPMENT.
- 9. FIXTURE FINISH SHALL MATCH NEW ALUMINUM WINDOW AND DOOR TRIM. PROVIDE COLOR SAMPLE WITH SUBMITTAL.
- 10. "EMR" INVERTER EMERGENCY UNITS WILL BE PROVIDED FOR FIXTURES NOTED. MOUNT ABOVE DROP CEILING AT FIXTURE.



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PROJECT INFORMATION

13940.18

NEWBURGH ENLARGED CITY
SCHOOL DISTRICT

Project Name
PHASE 3: HERITAGE MIDDLE
SCHOOL 2019 CAPITAL
IMPROVEMENT PROJECT

Project Address 405 Union Avenue, New Windsor, NY 12553

SED Number

PROJECT ISSUE SCHEDULE

1 9/17/21 BID ADDENDUM #1

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

09/06/2021 AS NOTED
Project Status

CONSTRUCTION DOCUMENTS
Drawn By Checked By

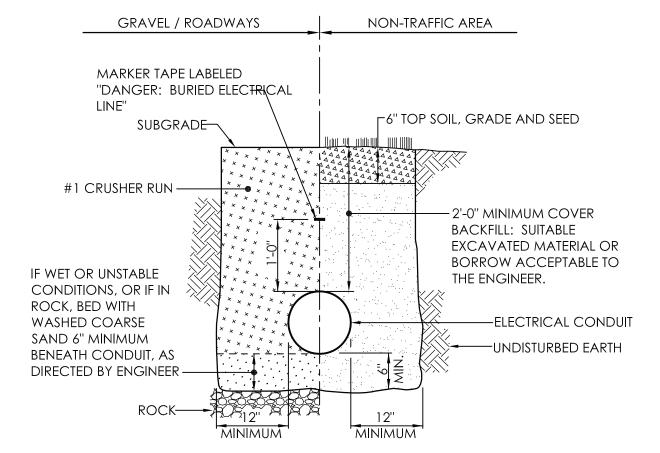
RJD ARM

Drawing Title
EQUIPMENT WIRING AND
LUMINAIRE SCHEDULES

umber HMS

PAN	EL NAME: P-10			PANE	L LOCA	TION: S	TORA	GE RO	OM 606	Revised: 07/15/21	
										Notes:	
		VOL	TS	AMPS	PHASE	# CCTS	LUGS	BKR		22KAIC RATING	3
		208/1	20	400	3	30		350A			
	DESCRIPTION	BREAKER	LII	NE 1	LIN	IE 2	LIN	IE 3	BREAKER	DESCRIPTION	
1			57	8							2
3	ACC-1	80/3			57	8			15/3	AHU-1	4
5							57	8	1		6
7			57	8							8
9	ACC-2	80/3			57	8			15/3	AHU-2	10
11							57	8	1		12
13			57	4.5					20/1	HVAC SERVICE RECEPT.	14
15	ACC-3	80/3			57				20/1	SPARE	16
17							57		20/1	SPARE	18
19			57						20/1	SPARE	20
21	ACC-4	80/3			57					SPACE	22
23							57			SPACE	24
25										SPACE	26
27	SPARE	20/3								SPACE	28
29									1 1	SPACE	30
			24	18.5	2	44	2	44			

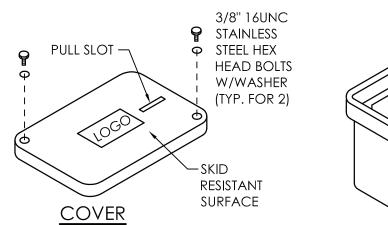
PANE	L NAME: P-11			PANE	L LOCA	TION:	Attic			Revised: 08/11/21	
										Notes:	
		VOL	ГЅ	AMPS	PHASE	# CCTS	LUGS	BKR		22KAIC Rating	g
		208/1	20	225	3	42		225			
	DESCRIPTION	BREAKER	LIN	NE 1	LIN	NE 2	LIN	E 3	BREAKER	DESCRIPTION	
1			16.7	16.7							
3	SF-8	35/3			16.7	16.7			35/3	SF-3	
5							16.7	16.7			
7			7.5	4.8							
9	SF-6	20/3			7.5	4.8			20/3	RF-4, RF-5	
11							7.5	4.8]		
13			10.6	12					20/1	UV-41, UV-42, UV-43	
15	SF-7	20/3			10.6	10.3			20/2	550 555	
17							10.6	10.3	20/2	EF-3, EF-5	
19			7.5	12					00/0		_
21	RF-6	20/3			7.5	12			20/2	EF-6	
23							7.5	1.5	20/1	ROOF SERVICE RECEPT.	
25			11.4	10.5					20/1	HVAC SERVICE RECEPT.	
27	SF-2, RF-2, RF-3	20/3			11.4	6.6					-
29							11.4	6.6	20/3	RF-7	
31			16.7	6.6					1		
33	SF-1	35/3			16.7	10.6				-	-
35							16.7	10.6	20/3	RF-8	
37			24.2	10.6					1		
39	RF-1	50/3			24.2				20/1	SPARE	_
41							24.2		20/1	SPARE	-
			16	67.8	15	5.6	14	 5 1			-

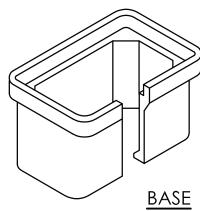


NOTES:

- 1) ALL MATERIAL PLACED IN GRAVEL/ROADWAY AREAS SHALL BE COMPACTED IN MAXIMUM
- 2) THIS TRENCH DETAIL SHALL INCLUDE THE REQUIREMENTS COMMON TO MORE THAN ONE SECTION OF DIVISION 2 OF THE SPECIFICATIONS.







CLARITY OF COMPONENTS AND WIRING. IT IS NOT INTENDED TO SHOW EVERY SCENARIO IN DIFFERENT

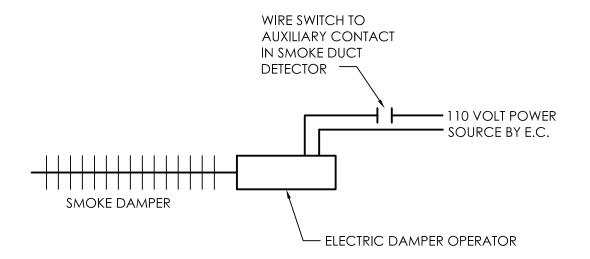
TYPE SPACES. CONTRACTOR SHALL BE RESPONSIBLE

TO PROVIDE ALL MATERIALS REQUIRED TO PROVIDE THE QUANTITY OF CONTROL ZONES, CIRCUITS, AND

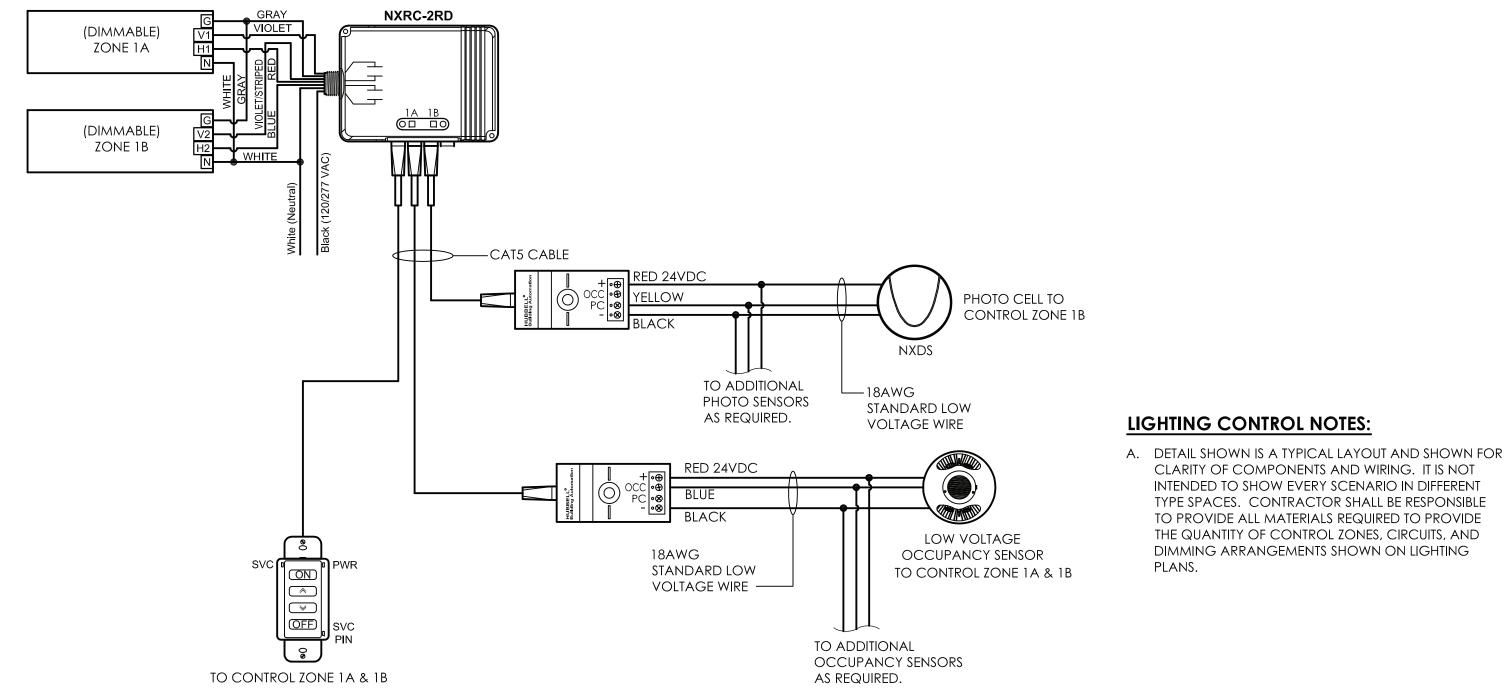
DIMMING ARRANGEMENTS SHOWN ON LIGHTING

- 1. PROVIDE QUAZITE OPEN BOTTOM POLYMER HANDHOLE OR EQUAL.
- 2. COORDINATE DEPTH OF HANDHOLES WITH FIELD CONDITIONS. HANDHOLES TO BE LOCATED IN NON-TRAFFIC GRASS AREAS WITH TOP FLUSH WITH FINISHED GRADE.
- 3. PROVIDE 12" MINIMUM CRUSHED STONE BELOW HANDHOLE FOR DRAINAGE.
- 4. FILL AND COMPACT THE SOIL AROUND THE HANDHOLE TO GRADE LEVEL WITH THE COVER ON THE ENCLOSURE.

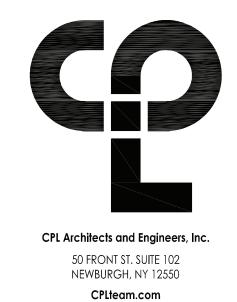








TYPICAL LIGHTING CONTROL DIAGRAM



PROJECT INFORMATION

13940.18

Project Number

Client Name NEWBURGH ENLARGED CITY SCHOOL DISTRICT

PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT

Project Address 405 Union Avenue, New Windsor, NY 12553

SED Number

44-16-00-01-0-039-011 REVISION SCHEDULE

1 9/17/21 BID ADDENDUM #1

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SHEET INFORMATION

09/06/2021 **AS NOTED** CONSTRUCTION DOCUMENTS RJD

ELECTRICAL DETAILS AND PANELBOARD SCHEDULES