MECHANICAL ABBREVIATIONS:

AD	ACCESS DOOR
AFC	ABOVE FALSE CEILING
AFF	ABOVE FINISHED FLOOR
AL	ACOUSTICAL LINING
BDD	BACK DRAFT DAMPER
BG	BOTTOM GRILLE
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CD	CEILING DIFFUSER
CG	CEILING GRILLE
COD	CLEAN OUT DOOR
CR	CEILING REGISTER
CFM	CUBIC FEET OF AIR PER MINUTE
CP	CONDENSATE DRAIN
EL	ELEVATION
EF	EXHAUST FAN
ERV	ENERGY RECOVERY VENTILATOR
FD	FIRE DAMPER AND ACCESS DOOR
FSD	FIRE SMOKE DAMPER AND ACCESS DOOR
FCU	FAN COIL UNIT
FC	FLEXIBLE CONNECTION
HC	HEATING COIL
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE STEAM CONDENSATE RETURN
MBH	THOUSAND BTU'S PER HOUR
NK	NECK (AS RELATED TO DUCT & DIFFUSER)
NIC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OAD	OUTSIDE AIR DAMPER
OAI	OUTSIDE AIR INTAKE
OED	OPEN END DUCT WITH WMS
RA	RETURN AIR
SD	SMOKE DAMPER AND ACCESS DOOR
SA	SOUND ATTENUATOR
TEF	TOILET EXHAUST FAN
TW	THERMOMETER WELL
TD	TRANSFER DUCT
TO	TRANSFER OPENING
TG	TOP GRILLE
TR	TOP REGISTER
TRG	TRANSFER GRILLE
TRR	TRANSFER REGISTER
FTR	FIN TUBE RADIATOR
MD	MOTORIZED DAMPER
HL	HEATING LOAD IN MBH
AL	ACTIVE LENGTH IN FEET
LTGS	LOW TEMPERATURE GLYCOL SUPPLY
LTGR	LOW TEMPERATURE GLYCOL RETURN

MECHANICAL SYMBOL LIST:

- EXISTING WORK TO REMAIN (WORK SHOWN IN LIGHT)
- EXISTING WORK TO BE REMOVED
- NEW WORK (WORK SHOWN IN DARK)
- CONNECT NEW TO EXISTING
- POINT OF DISCONNECTION
- TS — TEMPERATURE SENSOR
- TB — BACNET THERMOSTAT
- TS H — COMBINATION TEMPERATURE SENSOR/HUMIDITY SENSOR
- T — THERMOSTAT (SPACE) DIGITAL
- T — THERMOSTAT (DUCT)
- H — HUMIDISTAT
- P — DIFFERENTIAL PRESSURE SENSOR
- S — SWITCH
- Fz — FREEZESTAT
- SUPPLY AIR OUTLET, 4 WAY
- EXHAUST AND RETURN DIFFUSER
- SUPPLY AIR DIFFUSER
- DUCT SECTION UNDER POSITIVE PRESSURE
- DUCT SECTION UNDER NEGATIVE PRESSURE (RETURN)
- DUCT SECTION UNDER NEGATIVE PRESSURE (EXHAUST)
- DUCTWORK GOING UP
- DUCTWORK GOING DOWN
- SOUND LINING IN DUCT
- SD — SMOKE DAMPER WITH DUCT ACCESS DOOR. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE ACCESS DOORS IN INACCESSIBLE LOCATIONS
- S — FIRE SMOKE DETECTOR
- FSD — FIRE SMOKE DAMPER WITH DUCT ACCESS DOOR. COORDINATE WITH GC TO PROVIDE ACCESS DOORS AT ACCESSIBLE LOCATION.
- FD — FUSIBLE LINK FIRE DAMPER WITH ACCESS DOOR. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE ACCESS DOORS IN INACCESSIBLE LOCATIONS
- 18 x 12 — DUCT SIZE - FIRST SIZE INDICATES PLAN SIZE
- A.D. — ACCESS DOOR IN DUCT
- DUCT FLEXIBLE CONNECTION
- VD — VOLUME DAMPER
- SPIN-IN FITTING WITH VOLUME DAMPER
- L — LOUVER DOOR
- U — TRANSFER AIR THRU UNDERCUT
- THERMOMETER
- BDD — BACK DRAFT DAMPER
- RETURN REGISTER
- SUPPLY REGISTER
- Z-DUCT
- RETURN GRILL WITH FLEX BOOT DUCT

NOTE:
ALL ABBREVIATIONS AND SYMBOLS MAY NOT APPEAR ON THE DRAWINGS FOR THIS PROJECT.

MECHANICAL PIPING SYMBOL LIST:

- CHILLED WATER SUPPLY
- CHILLED WATER RETURN
- HOT WATER SUPPLY
- HOT WATER RETURN
- THERMOMETER
- S/R — HOT WATER SUPPLY OR RETURN RISER; RISER NUMBER
- AHU XX — EQUIPMENT TYPE; EQUIPMENT NUMBER
- PUMP
- STRAINER 'Y' TYPE WITH BLOWDOWN VALVE
- PIPE UP
- PIPE DOWN
- COMBINATION BALANCING & SHUT-OFF VALVE
- SHUT-OFF VALVE
- SHUT-OFF VALVE WITH CAPPED DRAIN FITTING
- THROTTLING VALVE
- CHECK VALVE
- CIRCUIT SETTER VALVE
- AUTOMATIC 2-WAY CONTROL VALVE
- AUTOMATIC 3-WAY CONTROL VALVE
- ELECTRIC CONTROL VALVE
- CONTROL VALVE STATION
- EJ — PIPE EXPANSION JOINT
- UNION
- ECCENTRIC REDUCER
- RELIEF VALVE
- BUTTERFLY VALVE
- PLUG FOR PRESSURE GAUGE & THERMOMETER CONNECTION
- THERMOMETER
- MANUAL AIR VENT
- A — AUTOMATIC AIR VENT
- PRESSURE GAUGE
- PRESSURE RELIEF VALVE
- ARROW INDICATES DIRECTION OF FLOW
- COLD WATER MAKE UP LINE
- A — AIR LINE
- V — VENT LINE
- PD — PUMPED CONDENSATE DRAIN
- D — DRAIN LINE
- ARROW INDICATES DIRECTION OF FLOW
- DP — DIFFERENTIAL PRESSURE TRANSMITTER
- SD — SUCTION DIFFUSER
- M — MOTORIZED VALVE
- CALIBRATED BALANCING VALVE

GENERAL CONSTRUCTION NOTES:

1. THE INTENT OF THE CONTRACT DOCUMENTS IS TO ALLOW FOR THE PERFORMANCE OF THE WORK. EVERY ITEM NECESSARILY REQUIRED MAY NOT BE SPECIFICALLY MENTIONED OR SHOWN. UNLESS EXPRESSLY STATED, ALL SYSTEMS AND EQUIPMENT SHALL BE COMPLETED AND APPROPRIATELY OPERABLE. FURNISH AND INSTALL ALL SPECIFIED AND APPROPRIATE ITEMS, AND ALL INCIDENTAL, ACCESSORY, AND OTHER ITEMS NOT SPECIFIED BUT REQUIRED FOR A COMPLETE AND FINISHED ASSEMBLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS, AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE CONTRACTOR SHALL SUBMIT THEM, IN WRITING, TO THE ENGINEER AND IS RESPONSIBLE FOR OBTAINING A WRITTEN CLARIFICATION FROM THE ENGINEER BEFORE PROCEEDING WITH WORK IN QUESTION, OR RELATED WORK.
3. EXECUTE WORK IN ACCORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, FEDERAL CODES, MANUFACTURER'S RECOMMENDATIONS, NFPA AND ASME.
4. ALL INSTALLED PLUMBING, MECHANICAL, AND ELECTRICAL EQUIPMENT SHALL OPERATE QUIETLY AND FREE OF VIBRATION.
5. ALL MATERIALS SHALL BE NEW, UNUSED, AND OF THE HIGHEST QUALITY IN EVERY RESPECT UNLESS OTHERWISE NOTED. MANUFACTURED MATERIALS AND EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS, U.O.N.
6. VERIFY IN THE FIELD, THAT NO CONFLICTS EXIST WHICH WOULD PROHIBIT THE LOCATION OF ANY AND ALL MECHANICAL, TELEPHONE, ELECTRICAL, LIGHTING, PLUMBING, AND SPRINKLER EQUIPMENT (TO INCLUDE ALL REQUIRED PIPING, DUCTWORK, AND CONDUIT) AND THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF ABOVE EQUIPMENT ARE PROVIDED.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF SAME WHICH MAY BE DAMAGED, LOST OR STOLEN, WITHOUT ADDITIONAL COSTS TO THE OWNER.
8. ALL WELDING/BURNING WORK SHALL BE PROPERLY VENTILATED AND PURGED.
9. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTS, CONDUITS, PIPING AND FIXTURES. LOCATIONS OF ALL ITEMS SHOWN IN THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. DO NOT SCALE DRAWINGS. CONTRACTOR IS RESPONSIBLE TO SUBMIT SHOP DRAWINGS AFTER COORDINATION WITH OTHER TRADES AND VERIFYING FIELD CONDITIONS. THE CONTRACTOR MAY OBTAIN THE CAD FILES FOR THE FLOOR PLANS AND REFLECTED CEILING PLANS FROM THE ARCHITECT MUST GENERATE OWN SHOP DRAWINGS ON CAD FOR M-E-P-FP TRADES BASED ON THE FIELD CONDITIONS AND /OR COORDINATION WITH OTHER TRADES. EQUIPMENT LOCATIONS, ROUTING OF DUCTWORK, PIPING AND ELECTRICAL WIRES, CONDUITS AND CABLES, ETC. SHALL SECURE THE BEST CONDITIONS AND RESULTS AND SHALL BE DETERMINED BY THE CONTRACTOR AT THE PROJECT. SHOP DRAWINGS SHALL HAVE THE APPROVAL OF THE ARCHITECT/ENGINEER BEFORE PROCUREMENT AND INSTALLATION OF ANY ITEM.
10. THIS CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ELECTRICAL INSTALLATION TO PREVENT CONFLICT WITH CLEARANCES AND MAINTENANCE SPACE REQUIREMENTS OF ELECTRICAL EQUIPMENT. MECHANICAL EQUIPMENT, DUCT WORK, PIPING OR SUPPORTS FOR MECHANICAL EQUIPMENT SHALL NOT BE INSTALLED IN THE DEDICATED ELECTRICAL SPACE ABOVE ELECTRICAL EQUIPMENT, INCLUDING SWITCHBOARDS, PANELBOARDS, TRANSFORMERS AND CONTROL PANELS. DEDICATED ELECTRICAL SPACE IS THE SPACE DIRECTLY ABOVE THE ELECTRICAL EQUIPMENT EQUAL IN WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT AND FROM THE TOP OF THE ELECTRICAL EQUIPMENT TO THE STRUCTURAL DECK OF FLOOR ABOVE. SIMILARLY, MECHANICAL EQUIPMENT, DUCTWORK, PIPING OR SUPPORTS FOR MECHANICAL EQUIPMENT SHALL NOT BE INSTALLED IN THE DEDICATED WORKING SPACE DIRECTLY IN FRONT OF THE ELECTRICAL EQUIPMENT, MINIMUM 30" WIDE OR EQUAL IN WIDTH OF THE ELECTRICAL EQUIPMENT, 3'-0" DEEP AND FROM FLOOR TO THE STRUCTURAL DECK OF FLOOR ABOVE OR THE CEILING.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS REQUIRED UNDER THIS APPLICATION IN ACCORDANCE WITH CHAPTER 17 AND THE APPLICABLE SECTIONS OF THE NYS CONSTRUCTION CODE ARE LISTED IN THE FOLLOWING TABLES. SPECIAL INSPECTIONS FOR PORTIONS OF THE WORK THAT ARE FILED UNDER SEPARATE APPLICATION ARE NOT LISTED HERE AND ARE TO BE LISTED ON THOSE APPLICATIONS BY THE CONTRACTOR'S APPLICANT OF RECORD.

THE "AUTHORITY" SHALL BE RESPONSIBLE FOR THE FOLLOWING SPECIAL INSPECTIONS:

FIRE-RESISTANT PENETRATIONS AND JOINTS	ASTM E2174, ASTM E814, UL 1479	BC 1705.17,

BUILDING DEPARTMENT NOTES

1. HEATING SYSTEM DESIGN AS PER 2020 NYS 2020 MECHANICAL AND BUILDING CODE.
2. FIRE STOPPING FOR PIPES AND DUCTS PASSING THROUGH FIRE RATED CONSTRUCTION SHALL COMPLY WITH 2020 NYS BC CHAPTER 07.
3. ALL MECHANICAL PLANS COMPLY WITH 2020 NYS MC SECTION 106.
4. SPACING OF HANGERS AND SUPPORTS SHALL CONFORM WITH NYS 2020 MC 305.

SUMMARY OF WORK :

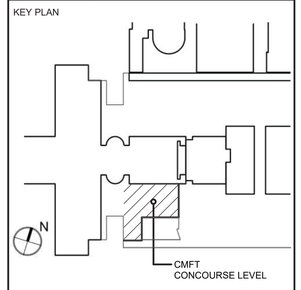
THE PROJECT SCOPE OF WORK INCLUDE THE FOLLOWING :

1. PROVIDE FOUR (4) FAN COIL UNIT
2. DUCT WORK (SUPPLY, RETURN, FRESH AIR & EXHAUST)
3. PROVIDE TWO (2) ENERGY RECOVERY VENTILATOR UNITS
4. PROVIDE FOUR (4) SOUND ATTENUATION DEVICE FOR FAN COIL UNITS
5. CHILLED WATER PIPES AND VALVES PER CONTRACT DOCUMENTS
6. HOT WATER PIPES AND VALVES PER CONTRACT DOCUMENTS
7. CONTROL INTEGRATION OF NEW FAN COIL UNITS AND ENERGY RECOVERY VENTILATOR INTO EXISTING BMS

ISSUE:
BID DOCUMENTS

NO.	DATE	REVISION

KEY PLAN



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Trophy Point Construction Services
4588 South Park Avenue, Blasdell, NY 14219

PROJECT:

Renovations to Relocate Admissions for
Rehab of Administration Bldg - Phase 1A
SUCF #291036-01

1906
SUNY Purchase College
Purchase, NY 10577

DRAWING TITLE:

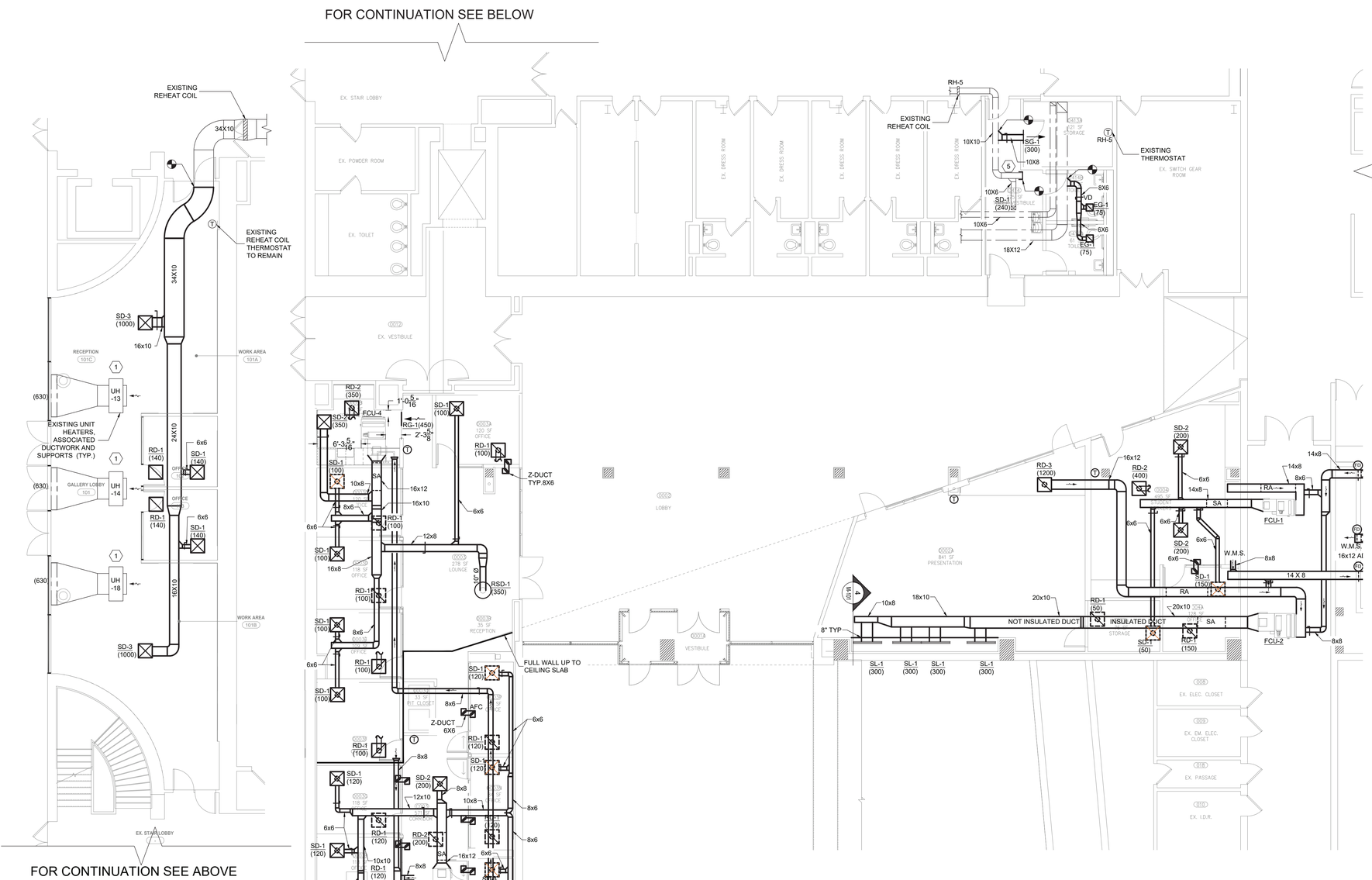
HVAC SYMBOL, ABBREVATION AND NOTES

SCALE:
As indicated

DATE:
12 JUNE 2023

DRAWING NO.:
M001.00

STATE OF NEW YORK · JESSICA N. ADAMSKI · 087174 · LICENSED PROFESSIONAL ENGINEER

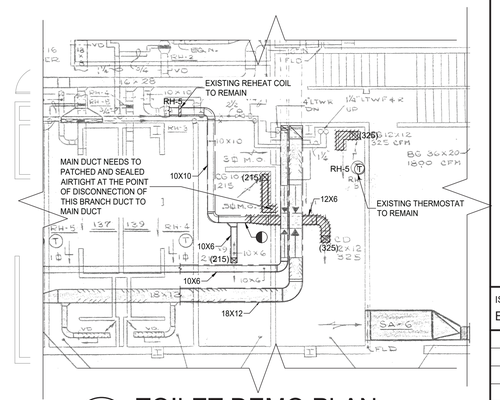


1 M101 HVAC CONCOURSE LEVEL DEMO AND NEW DUCTWORK PLAN

1/8" = 1'-0"

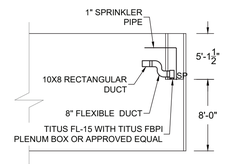
SHEET NOTE:

1. ALL CONTROL SYSTEMS, WIRING, PIPING, AND DUCTWORK ASSOCIATED WITH UH-13, UH-14, UH-18 SHALL REMAIN IN PLACE, PROTECTED AND OPERATIONAL THROUGH-OUT THE COURSE OF CONSTRUCTION.
2. RETURN GRILL TO BE CONNECTED TO FLEXABOOT, WHICH WILL THEN TRANSFER AIR TO ZEE-DUCT THROUGH CEILING SPACE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER DETAILS.
4. CONTRACTOR SHALL PROVIDE FULL FACE INSULATED PLENUM BOX 26"X26" BEHIND LOUVER.
5. CONTRACTOR SHALL PROVIDE END CAP



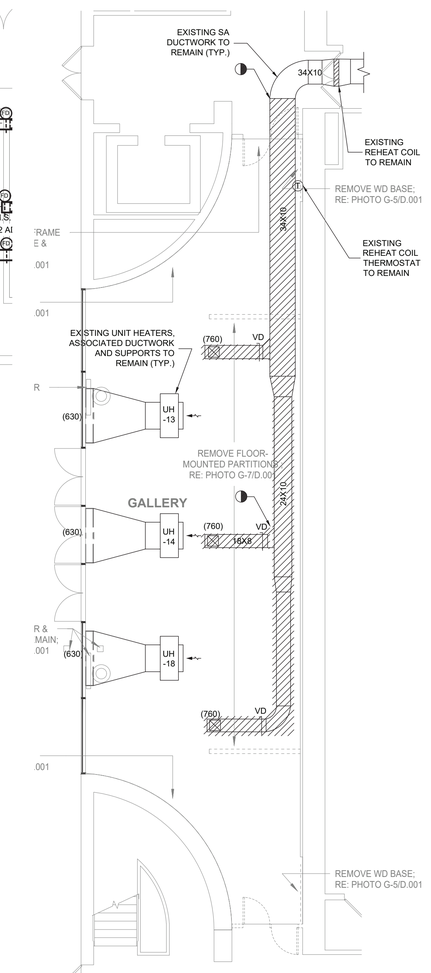
2 M101 TOILET DEMO PLAN

1/8" = 1'-0"



4 M101 SECTION

1/8" = 1'-0"



3 M101 GALLERY AREA DEMO PLAN

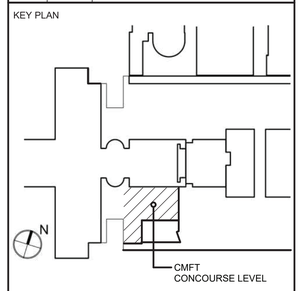
1/8" = 1'-0"

06/08/2023

ISSUE:
BID DOCUMENTS

NO.	DATE	REVISION

KEY PLAN



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PROJECT:

Renovations to Relocate Admissions for
Rehab of Administration Bldg - Phase 1A
SUCF #291036-01
1906
SUNY Purchase College
Purchase, NY 10577

DRAWING TITLE:

HVAC CONCOURSE LEVEL DEMO AND NEW DUCTWORK PLAN

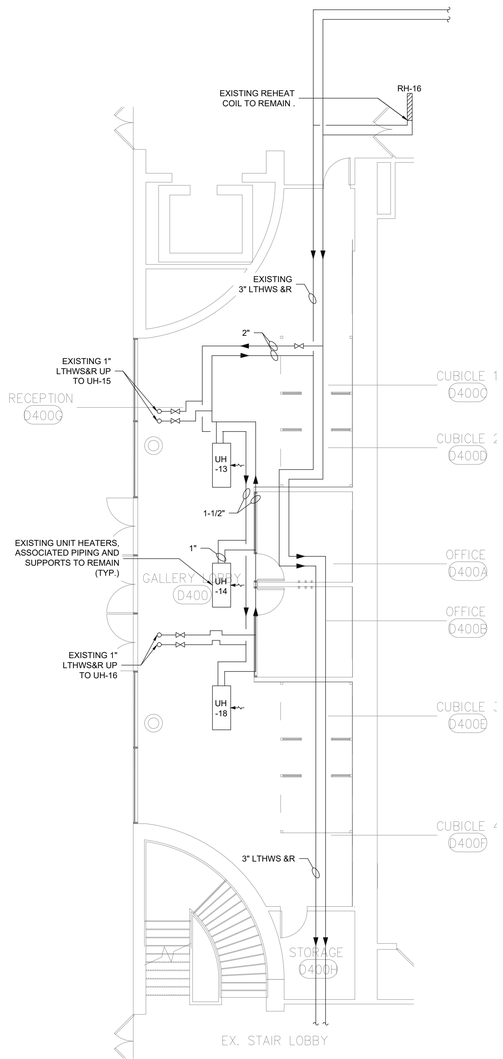
SCALE:
As indicated

DATE:
12 JUNE 2023

DRAWING NO.:
M101.00

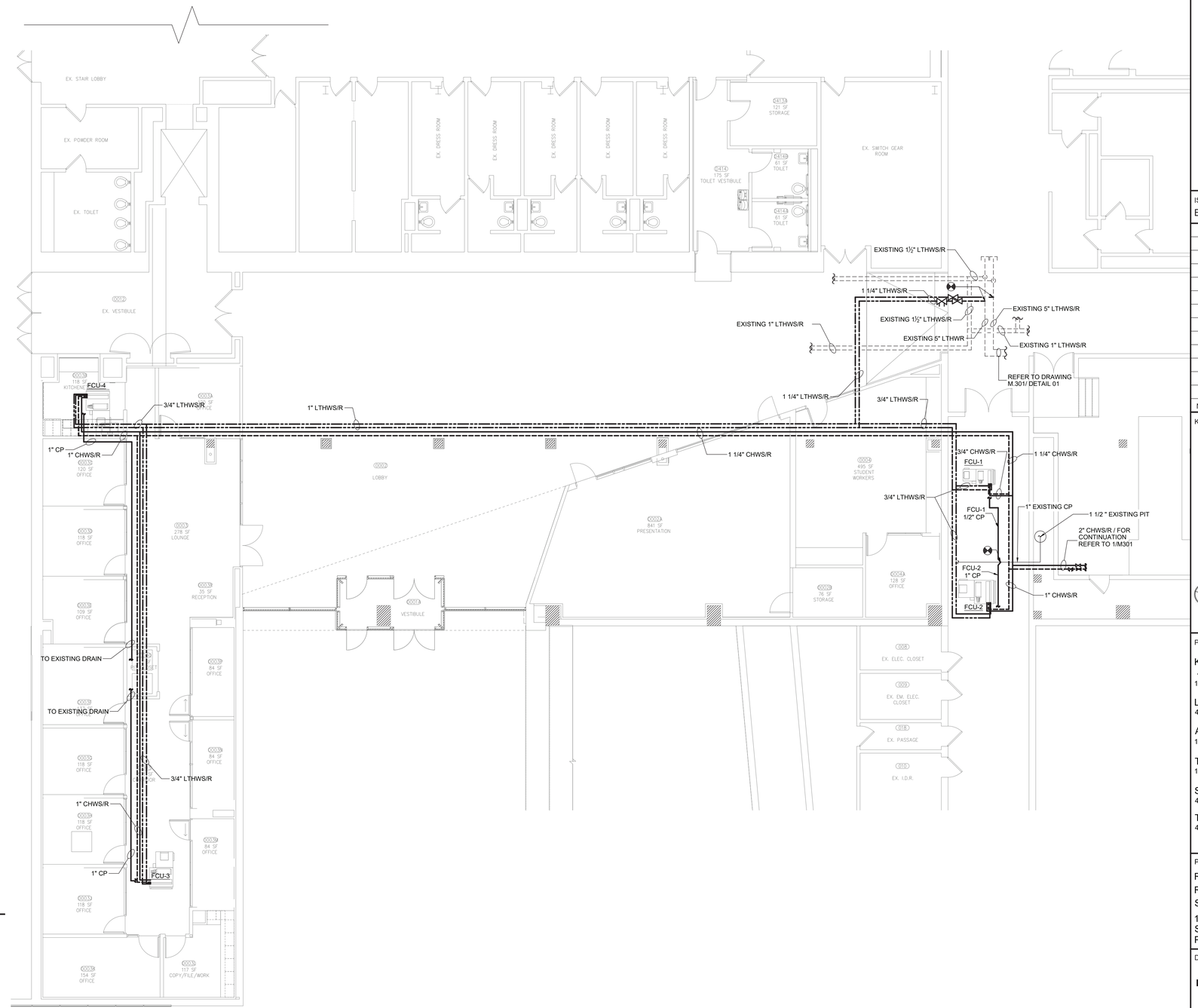
STATE OF NEW YORK · TERESA K. AGARWAL · No. 071159 · LICENSED PROFESSIONAL ENGINEER

A & J PROJECT No. 2301



2 M201 GALLERY AREA EXISTING PIPING PLAN (REFERENCE ONLY)

1/8" = 1'-0"



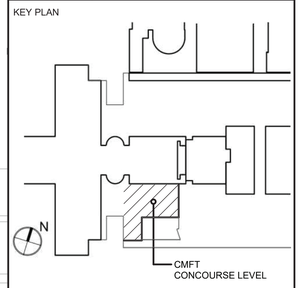
1 M201 HVAC CONCOURSE LEVEL PIPING PLAN

1/8" = 1'-0"

ISSUE:
BID DOCUMENTS

NO.	DATE	REVISION

KEY PLAN



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SUCF #291036-01

1906
SUNY Purchase College
Purchase, NY 10577

DRAWING TITLE:

HVAC CONCOURSE LEVEL PIPING PLAN

SCALE:
As indicated

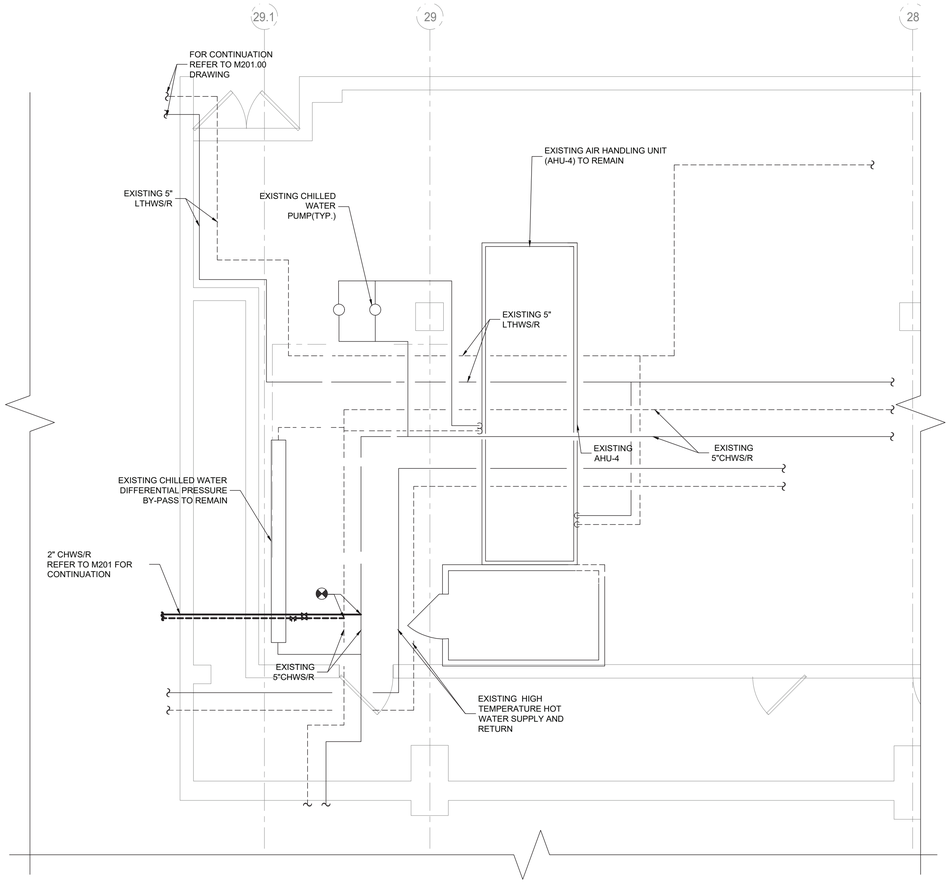
DATE:
12 JUNE 2023

DRAWING NO.:
M201.00

STATE OF NEW YORK · KENDRA K. AGUIRRE · LICENSED PROFESSIONAL ENGINEER · No. 077178

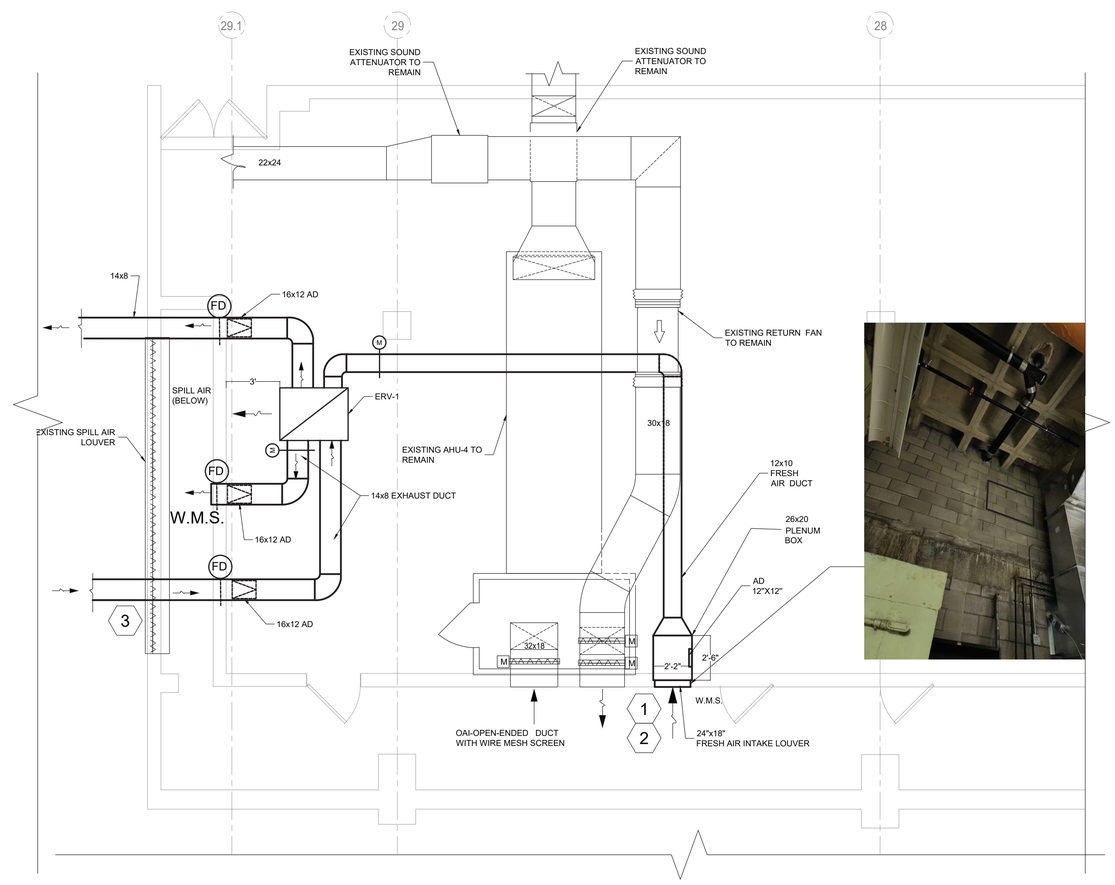
06/08/2023

A & J PROJECT No. 2301



1 / M301 ENLARGED MECHANICAL PIPING PART PLAN

scale = 1/4"=1'-0"



2 / M301 ENLARGED MECHANICAL DUCTWORK PART PLAN

scale = 1/4"=1'-0"

SHEET NOTE:

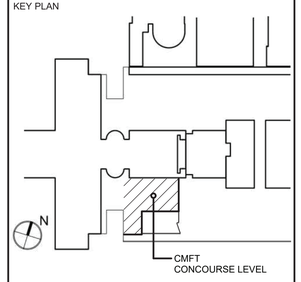
1. REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER DETAILS.
2. CONTRACTOR SHALL PROVIDE FULL FACE INSULATED PLENUM BOX BEHIND LOUVER.
3. CONTRACTOR SHALL CREATE AN OPENING BY CUTTING AN EXISTING LOUVER. CONTRACTOR IS RESPONSIBLE TO FABRICATE RAILING/FRAMING AROUND AN OPENING.

06/08/2023

ISSUE:
BID DOCUMENTS

NO.	DATE	REVISION

KEY PLAN



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SUCF #291036-01

1906
SUNY Purchase College
Purchase, NY 10577

DRAWING TITLE:

ENLARGED MECHANICAL PLAN

SCALE:
As indicated

DATE:
12 JUNE 2023

DRAWING NO.:
M301.00

STATE OF NEW YORK · JASON A. ALARIO · No. 071210 · LICENSED PROFESSIONAL ENGINEER

A & J PROJECT No. 2301

FAN COIL UNIT SCHEDULE

BASED ON TRANE OR APPROVED EQUAL.

UNIT TAG	SERVICE ROOM	MODEL NUMBER	FAN: AIR VOLUME CFM	FAN: OUTSIDE AIR CFM	FAN: E.S.P. IN. H20	FAN: HP	FAN: ELECTRICAL SUPPLY VOLTS/PHASE/Hz	FAN: WATTS	FAN: AMPS	FAN: FAN SPEED RPM	COOLING WATER COIL: TOTAL CAPACITY BTUH	COOLING WATER COIL: SENSIBLE CAPACITY BTUH	COOLING WATER COIL: ENTERING DB/WB °F	COOLING WATER COIL: LEAVING DB/WB °F	COOLING WATER COIL: NUMBER OF ROWS	COOLING WATER COIL: ENTERING WATER °F	COOLING WATER COIL: LEAVING WATER °F	COOLING WATER COIL: FLOW RATE GPM	COOLING WATER COIL: WATER P.D. FT.H20	HEATING WATER COIL: FLOW RATE GPM	HEATING WATER COIL: WATER T-IN / T-OUT	HEATING WATER COIL: HEATING BTUH	HEATING WATER COIL: AIR FLOW CFM	HEATING WATER COIL: AIR T-IN / T-OUT	WEIGHT LBS	REMARKS
FCU-1	EAST SIDE	BCHE018	600	200	0.75	0.5	208/3/60	204	2.4	1496	22680	17300	81.7/67.6	55/54.23	-	45	50.24	8.65	10.72	2.7	180/160	27216	600	53/95	152.2	
FCU-2	ORIENTATION	BCHE036	1200	400	0.75	1	208/3/60	665	4.6	1693	47300	36200	82.9/68.8	55/54.43	-	45	54.21	10.24	15.43	5.8	180/160	58320	1200	50/95	230.2	
FCU-3	WEST-NORTH SIDE	BCHE036	1200	300	0.75	1	208/3/60	820	4.6	1771	40380	32600	79.20/65.30	54/53.33	-	45	53.32	9.78	14.22	4.5	180/160	45360	1200	60/95	230.2	
FCU-4	WEST-SOUTH SIDE	BCHE036	1200	300	0.75	1	208/3/60	820	4.6	1771	40380	32600	79.20/65.30	54/53.33	-	45	53.32	9.78	14.22	4.4	180/160	43416	1200	61.50/95	230.2	

ENERGY RECOVERY VENTILATION SCHEDULE

BASED ON "GREEN HECK" OR APPROVED EQUAL.

UNIT NO.	MODEL NO.	LOCATION	DIMENSIONS (L X W X H) (INCH)	APPROX. WEIGHT (LB)	QTY.	FAN DATA: SUPPLY-AIR AIRFLOW: FRESH AIR CFM	SUPPLY-AIR AIRFLOW: ESP	SUPPLY-AIR AIRFLOW: MOTOR HP	SUPPLY-AIR AIRFLOW: VFD	SUPPLY-AIR AIRFLOW: RPM	EXHUAST-AIR AIRFLOW: EXHAUST AIR CFM	EXHUAST-AIR AIRFLOW: ESP	EXHUAST-AIR AIRFLOW: MOTOR HP	EXHUAST-AIR AIRFLOW: VFD	EXHUAST-AIR AIRFLOW: RPM	ENERGY RECOVERY DATA: SUMMER/COOLING: OUTDOOR AIR: DRY BULB	SUMMER/COOLING: OUTDOOR AIR: WET BULB	SUMMER/COOLING: SUPPLY AIR: DRY BULB	SUMMER/COOLING: SUPPLY AIR: WET BULB	SUMMER/COOLING: RETURN AIR: DRY BULB	SUMMER/COOLING: RETURN AIR: WET BULB	WINTER/HEATING: OUTDOOR AIR: DRY BULB	WINTER/HEATING: OUTDOOR AIR: WET BULB	WINTER/HEATING: FRESH AIR: DRY BULB	WINTER/HEATING: FRESH AIR: WET BULB	WINTER/HEATING: ROOM AIR: DRY BULB	WINTER/HEATING: ROOM AIR: WET BULB	ELECTRICAL DATA: V-PH-HZ	ELECTRICAL DATA: MOP(A)	ELECTRICAL DATA: MCA	FILTER DATA: OUT DOOR AIR: TYPE	OUT DOOR AIR: SIZE (IN)	OUT DOOR AIR: RATING	ROOM AIR: TYPE	ROOM AIR: SIZE (IN)	ROOM AIR: RATING	REMARKS
ERV-1	MINIVENT - 750	EAST SIDE MECH ROOM	45.9 X 35.3 X 24.2	240	1	600	1	3/4	NO	1725	600	1	3/4	NO	1725	94	77.7	78.9	66.4	75.0	62.5	10	7.7	58.2	47.4	72.0	55.8	208-1-60	15	12.5	PLEATED	2",1-16X20	MERV-8	PLEATED	2",1-16X20	MERV-8	SEE NOTES 1
ERV-2	MINIVENT - 750	WEST SIDE	45.9 X 35.3 X 24.2	240	1	600	1	3/4	NO	1725	600	1	3/4	NO	1725	94	77.7	78.9	66.4	75.0	62.5	10	7.7	58.2	47.4	72.0	55.8	208-1-60	15	12.5	PLEATED	2",1-16X20	MERV-8	PLEATED	2",1-16X20	MERV-8	SEE NOTES 1

NOTES:

1. PROVIDE ERV UNIT WITH REMOTE ON/OFF CONTROLER. CONTROLLER SHALL HAVE CAPABILITY TO RECEIVE ON/OFF SIGNAL FROM BAS SYSTEM.
2. PROVIDE UNIT WITH INTEGRAL FROST CONTROL SYSTEM. UPON DETECTION OF THE FROST UNIT SHALL BE CAPABLE TO PERFORM THE FROST PROTECTION OPERATION.

AIR OUTLETS AND INLETS

BASIS OF DESIGN: TITUS

TYPE DESIGNATION	SERVICE	SPECIFICATION TYPE	MAX CFM	FACE SIZE (INCHES)	NECK SIZE (INCHES)	MODEL NUMBER	USE	NOISE CRITERIA AT MAX CFM	REMARKS
	CEILING DIFFUSER	SD-1	0-200	24x24	6"Ø	TMSA	SEE PLANS	25	SEE NOTES 1, 2
	CEILING DIFFUSER	SD-2	201-350	24x24	8"Ø	TMSA	SEE PLANS	28	SEE NOTES 1, 2
	CEILING DIFFUSER	SD-3	900-1000	24X24	15"Ø	TMSA	SEE PLANS	31	SEE NOTES 1, 2
	CEILING RETURN	RD-1	0-200	24X24	6"Ø	TMSA	SEE PLANS	25	SEE NOTES 1, 2
	CEILING RETURN	RD-2	201-350	24X24	8"Ø	TMSA	SEE PLANS	28	SEE NOTES 1, 2
	SUPPLY REGISTER	SG-1	0-114	6X6	-	300 RS	SEE PLANS	15	SEE NOTES 1,2,3
	LINEAR SLOT DIFFUSER SUPPLY	SL-1	300-400	-	8"Ø	FL-15	SEE PLANS	16	SEE NOTES 1,2,3
	CEILING RETURN	RD-3	1200	24X24	16"Ø	TMSA	SEE PLANS	28	SEE NOTES 1, 2
	ROUND SUPPLY DIFFUSER	RSD-1	315-550	22Ø	12"Ø	TMRA	SEE PLANS	18	SEE NOTES 1,2,3
	RETURN REGISTER	RG-1	149-745	-	24X10	350 R	SEE PLANS	14	SEE NOTES 1,2,3
	EXHAUST REGISTER	EG-1	0-76	6X6	12X12	23 R	SEE PLANS	19	SEE NOTES 1,2,3

NOTES:

1. ALL DIFFUSERS & REGISTERS: CONTRACTOR SHALL COORDINATE WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS TO ENSURE PROPER AIR DEVICE BORDER SELECTION .
2. COORDINATE COLOR/FINISH WITH ARCHITECT.
3. 3/4" SPACING, 35 DEGREE DEFLECTION.

SOUND ATTENUATOR SCHEDULE

BASIS OF DESIGN: VIBRO ACOUSTIC

TAG	QUANTITY	SYSTEM	TYPE (NOTE 1)	AIR FLOW CFM	FACE VELOCITY FPM	IDEAL DP IN.W.G (NOTE 3)	LENGTH	Octave Band - Hz/Dynamic Insertion Loss (dB): 63	125	250	500	1000	2000	4000	8000	MODEL NUMBER	REMARKS
FCU-1 DISCHAGE	1	FAN COIL UNIT	RD	600	+738	0.09	36	5	8	14	18	20	17	13	10	RD-MLV-F3	-
FCU-1 RETURN	1	FAN COIL UNIT	RD	600	-738	0.08	60	5	12	20	29	29	21	14	12	RD-MHV-F3	-
FCU-2,3&4 DISCHAGE	3	FAN COIL UNIT	RD	1200	+949	0.08	48	4	8	14	18	19	15	13	10	RD-MV-F2	-
FCU-2 RETURN	1	FAN COIL UNIT	RD	1200	-949	0.06	72	5	12	19	25	23	17	14	11	RD-MV-F2	-

NOTES:

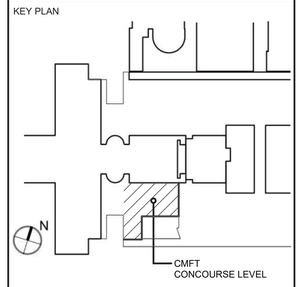
1. TYPE R - RECTANGULAR D - DISSIPATIVE
2. VELOCITY SHOWN IS +(FORWARD FLOW) OR - (REVERSE FLOW) AS DEFINED BY ASTM E477-20 .
3. IDEAL PRESSURE DROP AS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY .
4. PRESSURE DROP PER ASTM E477-20 PLUS SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.

06/08/2023

ISSUE:
BID DOCUMENTS

NO.	DATE	REVISION

KEY PLAN



PROJECT TEAM:

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Trophy Point Construction Services
4588 South Park Avenue, Blasdell, NY 14219

PROJECT:

Renovations to Relocate Admissions for
Rehab of Administration Bldg - Phase 1A
SUCF #291036-01

1906
SUNY Purchase College
Purchase, NY 10577

DRAWING TITLE:

HVAC SCHEDULES

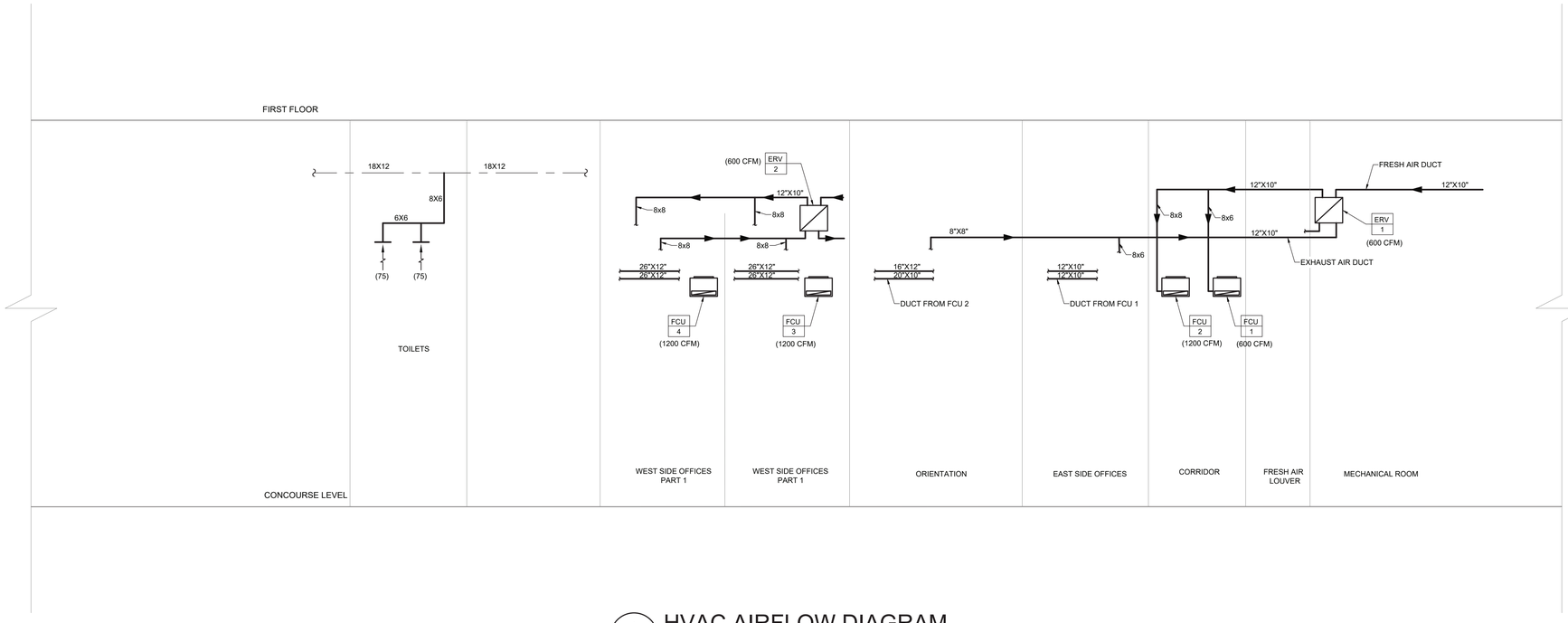
SCALE:
As indicated

DATE:
12 JUNE 2023

DRAWING NO.:
M401.00

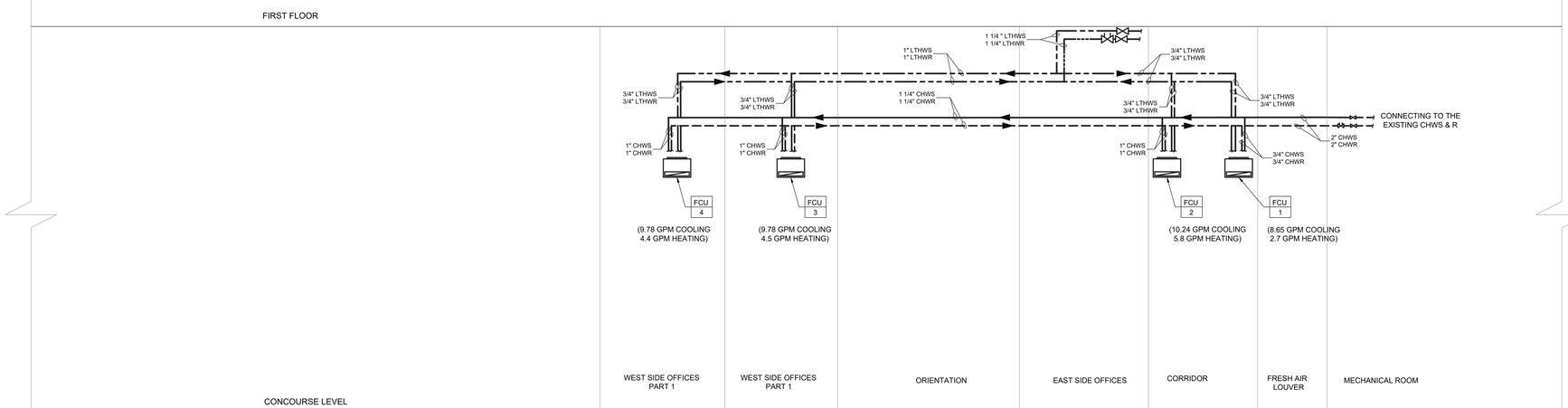
STATE OF NEW YORK · KENDRA K. AGUINAL · No. 071719 · LICENSED PROFESSIONAL ENGINEER

A & J PROJECT No. 2301



1 M501.00 HVAC AIRFLOW DIAGRAM

N.T.S.



2 M501.00 HVAC CHILLED & HOT WATER RISER DIAGRAM

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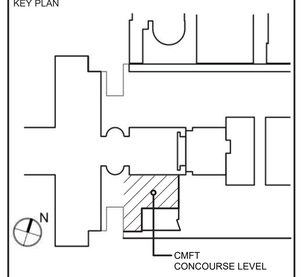
KEY PLAN



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SUCF #291036-01

1906
SUNY Purchase College
Purchase, NY 10577

DRAWING TITLE:

HVAC AIRFLOW AND HOT WATER RISER DIAGRAM

SCALE:
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STATE OF NEW YORK · SANDRA R. AGARWAL · NO. 071718 · LICENSED PROFESSIONAL ENGINEER

06/08/2023

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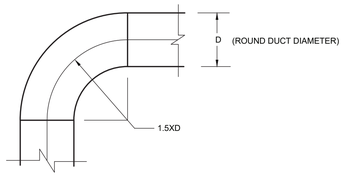
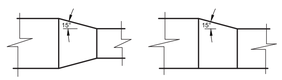


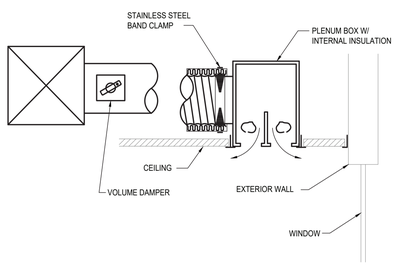
1 M601 ROUND ELBOW

N.T.S.



2 M601 TRANSITIONS DETAIL

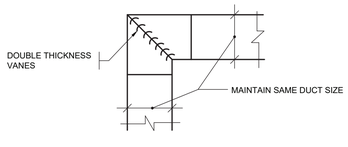
N.T.S.



NOTE: WHERE VOLUME DAMPERS ARE INACCESSIBLE DUE TO CEILING TYPE AND/OR DAMPER LOCATION, PROVIDE REMOTE DAMPER OPERATOR. COORDINATE CEILING TYPES WITH ARCHITECTURAL REFLECTED CEILING PLAN.

3 M601 LINEAR DIFFUSER DETAIL

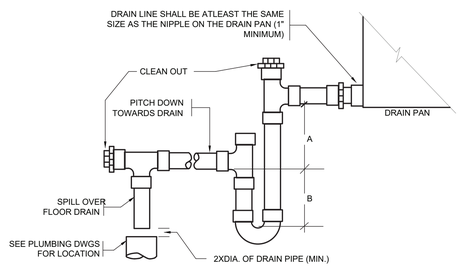
N.T.S.



ELBOWS 8" AND SMALLER SHALL BE RADIUS ELBOWS ONLY.

4 M601 SQUARE ELBOW WITH TURN VANES

N.T.S.

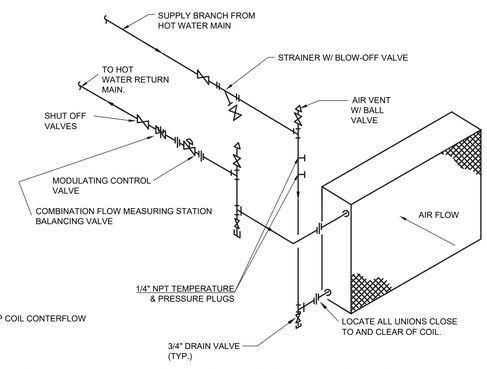


UNIT TYPE	A	B
DRAW THRU	X"	1.5X"
BLOW THRU	1"MIN	2X"

Where X=Static pressure in pan

5 M601 FCU DRAIN TRAP DETAIL

N.T.S.

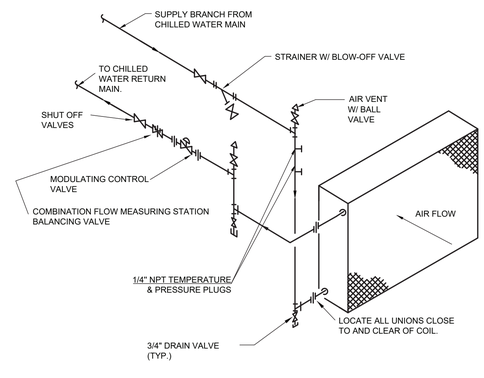


NOTE:

1. HOOK UP COIL CONTERFLOW

6 M601 FCU HEATING COIL CONNECTION DETAIL

N.T.S.

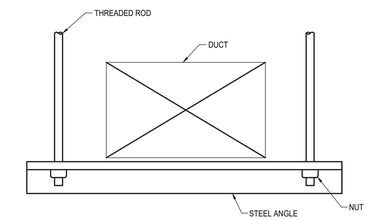


NOTE:

1. HOOK UP COIL CONTERFLOW

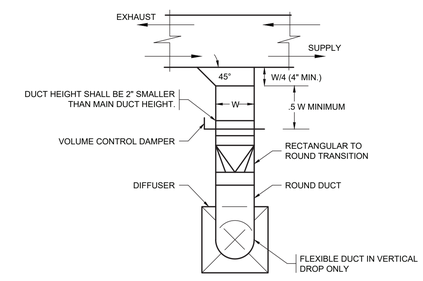
7 M601 FCU COOLING COIL CONNECTION DETAIL

N.T.S.



8 M601 DUCT TRAPEZE HANGER DETAIL

N.T.S.



9 M601 CEILING DIFFUSER CONNECTION DETAIL

N.T.S.

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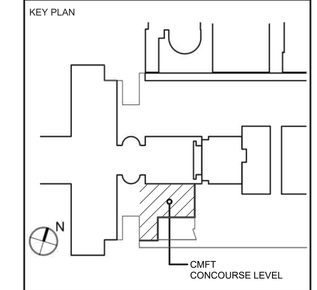
KEY PLAN



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SUCF #291036-01

1906
SUNY Purchase College
Purchase, NY 10577

DRAWING TITLE:

HVAC STANDARD DETAILS 1 OF 2

SCALE:
As indicated

DATE:
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DRAWING NO.:
M601.00

STATE OF NEW YORK · DIANA K. ACARREY · No. 071158 · LICENSED PROFESSIONAL ENGINEER

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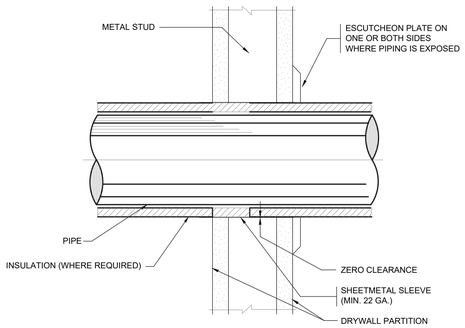
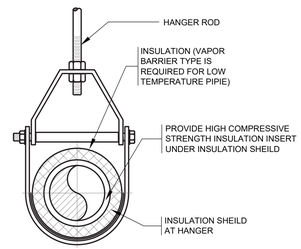
A & J PROJECT No. 2301



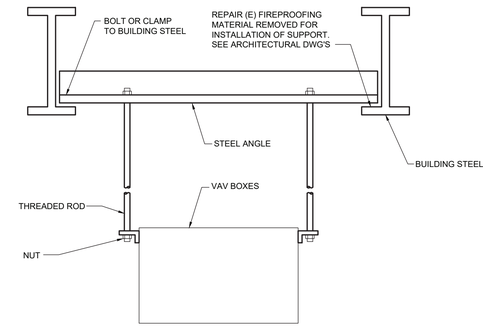
1 M602 PIPE PENETRATION IN INTERIOR WALL/FLOOR/CEILING

N.T.S.



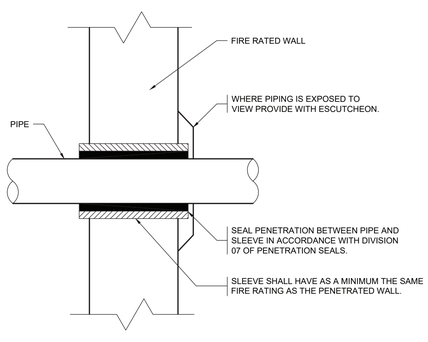
2 M602 ADJUSTABLE CLEVIS HANGER DETAIL

N.T.S.

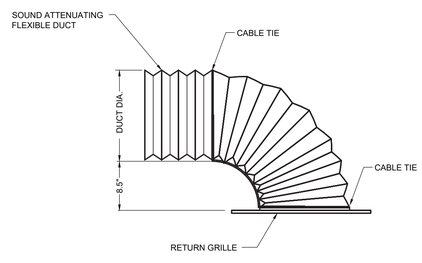


3 M2.01 ERV / FCU SUPPORT DETAIL

N.T.S.



4 M602 DETAIL OF PIPE PENETRATION THRU RATED WALL SHOWN (SLAB PENETRATION SIMILAR)



5 M602 FLEX-A- BOOT RETURN GRILLE

N.T.S.

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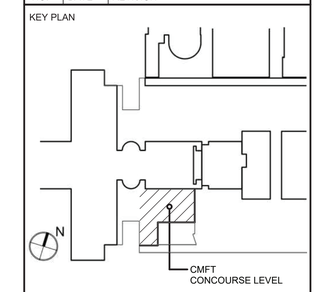

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PROJECT:

Renovations to Relocate Admissions for
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SUCF #291036-01

1906
SUNY Purchase College
Purchase, NY 10577

DRAWING TITLE:

HVAC STANDARD DETAILS 2 OF 2

SCALE:
As indicated

DATE:
12 JUNE 2023

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M602.00

STATE OF NEW YORK · KENDRA K. AGNEW · No. 077178 · LICENSED PROFESSIONAL ENGINEER

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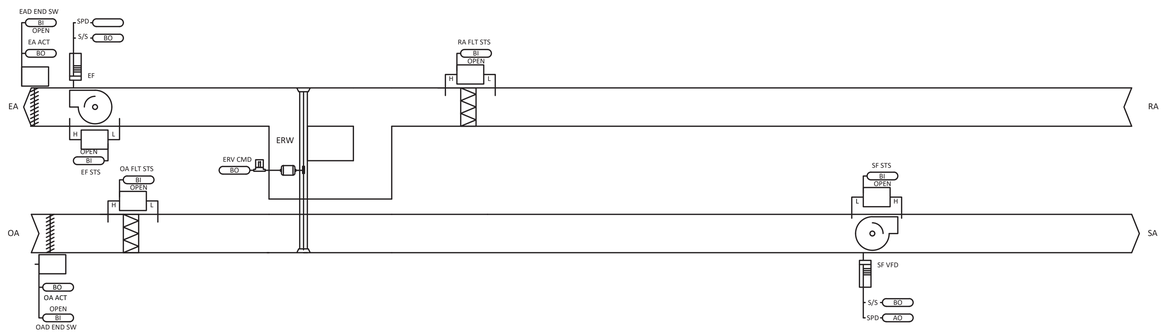

1
M701

TYPICAL CONTROL ENERGY RECOVERY VENTILATOR

N.T.S.

SEQUENCE OF OPERATIONS
ERV FLOW

BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE ERV REMOTE CONTROLLER THE ON/OFF SIGNAL.

ON/OFF OPERATION:
REMOTE CONTROLLER SHALL RECEIVE ON/OFF SIGNAL BASED ON THE STATUS OF THE CONNECTED FAN COIL UNITS TO TURN ERV ON/OFF. THE ERV SHALL BE ENERGIZED WHEN ANY ONE OF THE FAN COIL UNIT IS SCHEDULED TO BE ENERGIZED.

INTERLOCK THE ON/OFF OPERATION OF THE ERV TO THE MOTORIZED DAMPER IN OUTDOOR AIR INTAKE DUCTWORK. BOTH THE OUTDOOR AIR INTALE MOTORIZED DAMPER AND EXHAUST AIR MOTORIZED DAMPER SHALL TURN ON/OFF WITH ERV BEING TURNED ON/OFF.

TIMED FROST PROTECTION:
ERV SHALL BE PROVIDED WITH MANUFACTURER PROVIDED FROST PROTECTION CONTROLLER INTEGRAL TO THE UNIT. THE FROST PROTECTION MODE SHALL OPERATE BASED ON THE PRESSURE DIFFERENTIAL OF AIR UP-STREAM (SUPPLY AIR SIDE) AND DOWN-STREAM (EXHAUST AIR SIDE) OF THE ENERGY RECOVERY WHEEL. DURING THIS OPERATION THE OA DAMPER SHALL CLOSE AND THE ERV'S EXHAUST FAN SHALL BEMAIN ENERGIZED TO UTILIZE RETURN AIR TO PREVENT THE FROST CONDITIONS ON WHEEL. CONTRACTOR IS FULLY RESPONSIBLE TO COORDINATE WITH MANUFACTURER AND PROVIDE THE REQUIRED DIFFERENTIAL PRESSURE SENSOR ON THESE ERV TO FACILITATE THIS MODE OF OPERATION.

ERV FLOW - SYSTEM POINTS LIST

CONTROLLER: EXISTING ATC FIELD INSTALLED UNIT CONTROLLER	POINT TYPE								ALARMS					
SYSTEM POINT DESCRIPTION	GRAPHIC	HARDWARE INPUT	HARDWARE OUTPUT	SOFTWARE POINT	HARDWIRE INTERLOCK	WIRELESS	NETWORK	DEFAULT VALUE	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
DISCHARGE AIR TEMPERATURE	X	AI							X	X			X	
ENERGY WHEEL LEAVING OUTDOOR AIR TEMPERATURE	X	AI							X	X			X	
EXHAUST AIR TEMPERATURE	X	AI							X	X			X	
MIXED AIR TEMPERATURE LOCAL	X	AI												
OUTDOOR AIR RELATIVE HUMIDITY LOCAL	X	AI												
OUTDOOR AIR TEMPERATURE LOCAL	X	AI												
RETURN AIR TEMPERATURE LOCAL	X	AI							X	X			X	
RETURN DUCT/SPACE PRESSURE	X	AI												
EXHAUST FAN STATUS OPEN	X	BI												
OUTDOOR AIR DAMPER POSITION STATUS OPEN	X	BI												
RETURN AIR DIRTY FILTER ALARM OPEN	X	BI									X			
SUPPLY FAN STATUS OPEN	X	BI												
ENERGY WHEEL EXHAUST AIR BYPASS DAMPER COMMAND	X		AO											
ENERGY WHEEL OUTSIDE AIR BYPASS DAMPER COMMAND	X		AO											
EXHAUST FAN SPEED OUTPUT COMMAND	X		AO											
SUPPLY FAN SPEED COMMAND	X		AO											
ENERGY WHEEL COMMAND	X		BO											
EXHAUST FAN START STOP COMMAND	X		BO											
EXHAUST/RETURN DAMPER COMMAND	X		BO											
OUTDOOR AIR DAMPER COMMAND	X		BO											
SUPPLY FAN START STOP COMMAND	X		BO											
UNOCCUPIED COOLING SETPOINT				X				80.0 deg. F						
UNOCCUPIED HEATING SETPOINT				X				65.0 deg. F						
DISCHARGE AIR COOLING SETPOINT				X				55.0 deg. F						
DISCHARGE AIR HEATING SETPOINT				X				80.0 deg. F						
RETURN DUCT/SPACE PRESSURE SETPOINT				X				1.00 inches of W.C.						
POWER EXHAUST FAN VFD SETPOINT				X				80%						
CONDENSER COIL TEMPERATURE SETPOINT	X			X				105.0 deg. F						
BAS COMMUNICATION STATE	X			X										
EVAPORATOR LEAVING TEMPERATURE SETPOINT				X				53.0 deg. F	45.0 deg. F	75.0 deg. F				

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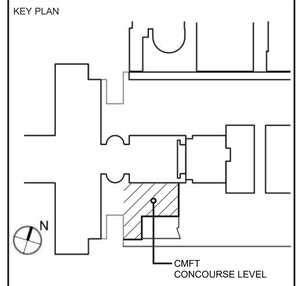
KEY PLAN



PROJECT TEAM:

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PROJECT:
Renovations to Relocate Admissions for
Rehab of Administration Bldg - Phase 1A
SUCF #291036-01

1906
SUNY Purchase College
Purchase, NY 10577

DRAWING TITLE:

HVAC SEQUENCE OF OPERATION 1 OF 2

SCALE:
As indicated

DATE:
12 JUNE 2023

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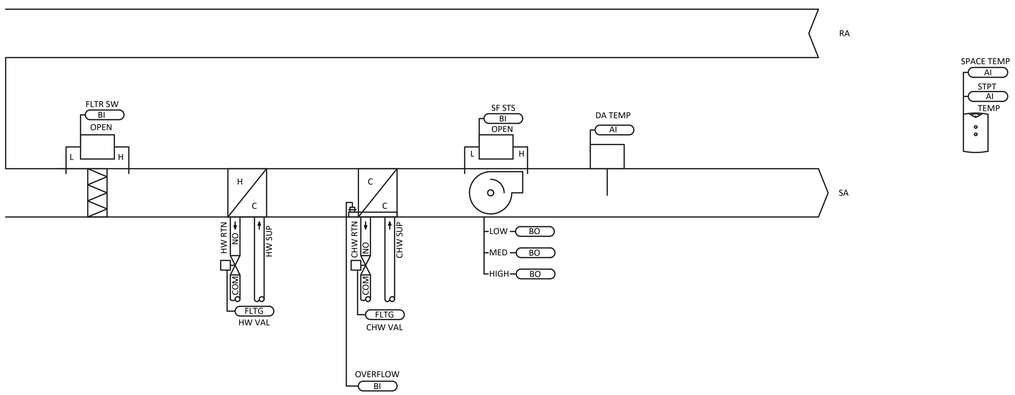
M701.00

STATE OF NEW YORK · KENDRA K. ALDRICH · No. 071719 · LICENSED PROFESSIONAL ENGINEER

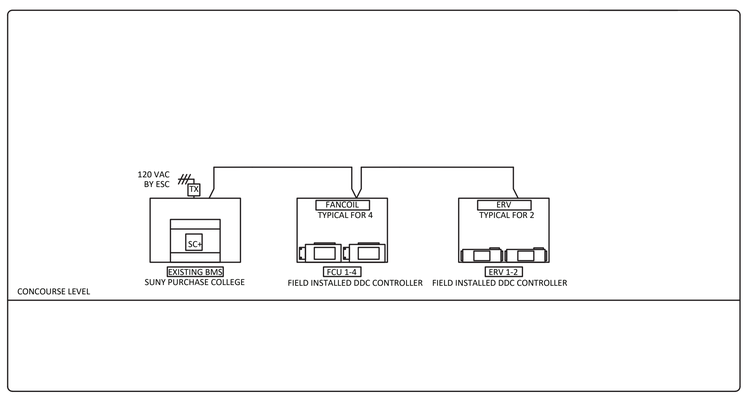
06/08/2023

A & J PROJECT No. 2301



1 M702 TYPICAL CONTROL FAN COIL UNITS

N.T.S.



2 M702 NETWORK CONTROL DIAGRAM

N.T.S.

SEQUENCE OF OPERATIONS

FCU Flow

BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED / UNOCCUPIED AND HEAT / COOL MODES BASED ON SCHEDULES . IF COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

OCCUPIED MODE:
DURING OCCUPIED PERIODS THE FCU SUPPLY FAN SHALL RUN CONTINUOUSLY, THE CHILLED WATER AND HOT WATER VALVES SHALL OPEN AND CLOSE TO MAINTAIN THE ACTIVE SPACE TEMPERATURE SETPOINT. WHEN THE FCU IS SCHEDULED TO BE OCCUPIED, THE ERV'S UNIT CONTROLLER SHALL ALSO INITIATE THE UNIT TO PROVIDE REQUIRED VENTILATION TO EACH SPACE.

UNOCCUPIED HEATING MODE:
WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START AND THE HOT WATER VALVE SHALL OPEN.
WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F(ADJ.) PLUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND THE HOT WATER VALVE SHALL CLOSE.

UNOCCUPIED COOLING MODE:
WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START, AND THE CHILLED WATER VALVE SHALL OPEN.
WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F (ADJ.) MINUS THE UNOCCUPIED DIFFERENTIAL OF 2.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND THE CHILLED WATER VALVE SHALL CLOSE.

OPTIMAL START:
THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME,OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.

PRE-COOL MODE:
DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

OPTIMAL STOP:
THE BAS SHALL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS. WHEN THE OPTIMAL STOP MODE IS ACTIVE THE UNIT CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE TO THE SPACE TEMPERATURE OFFSET SETPOINT.

SUPPLY FAN OPERATION:
THE SUPPLY FAN SHALL CYCLE ON DEMAND DURING THE UNOCCUPIED MODE. WHEN THE CONTROLLER TRANSITIONS TO THE OCCUPIED MODE, THE SUPPLY FAN SHALL START AT HIGH SPEED BEFORE AUTOMATICALLY TRANSITIONING TO CONTINUOUS OPERATION TO MAINTAIN THE DESIRED CFM SETPOINT.. THE SUPPLY FAN STATUS SHALL BE MONITORED BY A DIFFERENTIAL PRESSURE SWITCH. IF THE SUPPLY FAN FAILS THE FAN SHALL BE COMMANDED OFF AND AN ALARM WILL BE ANNUNCIATED AT THE BAS. IF THE SUPPLY FAN FAILS THE FAN SHALL BE COMMANDED OFF AND AN ALARM SHALL BE ANNUNCIATED AT THE BAS. A MANUAL RESET SHALL BE REQUIRED TO RESTART THE FAN.

CONDENSATE OVERFLOW MONITORING:
IF THE CONDENSATE LEVEL REACHES THE TRIP POINT, A CONDENSATE OVERFLOW ALARM SHALL BE ANNUNCIATED AT THE BAS. TO PREVENT THE CONDENSATE DRAIN PAN FROM OVERFLOWING AND CAUSING WATER DAMAGE TO THE BUILDING THE FAN SHALL BE DISABLED AND THE CHILLED WATER VALVE SHALL CLOSE.

FCU FLOW - SYSTEM POINTS LIST

CONTROLLER: EXISTING ATC FIELD INSTALLED UNIT CONTROLLER	POINT TYPE						
SYSTEM POINT DESCRIPTION	GRAPHIC	HARDWARE INPUT	HARDWARE OUTPUT	SOFTWARE POINT	HARDWIRE INTERLOCK	NETWORK	DEFAULT VALUE
DISCHARGE AIR TEMPERATURE LOCAL	X	AI					
SPACE TEMPERATURE LOCAL	X	AI					
SPACE TEMPERATURE SETPOINT LOCAL	X	AI					
CONDENSATE OVERFLOW DETECTION LOCAL	X	BI					
SUPPLY FAN STATUS LOCAL		BI					
FAN SPEED HI			BO				
FAN SPEED LO			BO				
FAN SPEED MED			BO				
CHILLED WATER VALVE	X		FLTG				
HOT WATER VALVE	X		FLTG				
OCCUPIED COOLING SETPOINT				X			74.0 deg. F
OCCUPIED HEATING SETPOINT				X			70.0 deg. F
UNOCCUPIED COOLING SETPOINT				X			85.0 deg. F
UNOCCUPIED HEATING SETPOINT				X			60.0 deg. F
DISCHARGE AIR TEMPERATURE CONTROL POINTS				X			45.0 deg. F-150.0 deg. F

ISSUE:
BID DOCUMENTS

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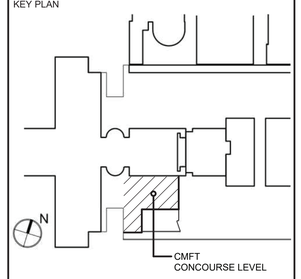

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