#### **GENERAL NOTES**

- ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE NEW YORK STATE ENERGY CODE, INTERNATIONAL MECHANICAL CODE, ASHRAE GUIDELINES, SMACNA, COUNTY GUIDELINES, NEC, NATIONAL STANDARD PLUMBING CODE, AND ALL OTHER APPLICABLE CODES, ORDINANCES, ETC. ADOPTED BY THE STATE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- MECHANICAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SAFE WORKING CONDITIONS AND SHALL OBSERVE ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND THE OWNER. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL APPLY. CARE SHALL BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR STRUCTURES.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES AND JOB SITE CONDITIONS INCLUDING SAFETY. CONSTRUCTION SHALL BE PERFORMED IN SUCH A MANNER TO PROTECT WORKMEN, OCCUPANTS AND THE PUBLIC FROM INJURY AND ADJOINING PROPERTY SHALL BE PROTECTED FROM DAMAGE BY USE OF SCAFFOLDING, UNDERPINNING OR OTHER APPROVED METHOD. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM HIS OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- MECHANICAL CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A CLEAN, DEBRIS FREE CONDITION. THE DUST RESULTING FROM REMOVALS SHALL BE CONTROLLED SO AS TO PREVENT ITS SPREAD TO OCCUPIED PORTIONS OF THE BUILDING AND TO AVOID CREATION OF A NUISANCE IN THE SURROUNDING
- MECHANICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, APPROVALS, ETC. PRIOR TO COMMENCING WORK AND SHALL SECURE CERTIFICATE OF OCCUPANCY UPON
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL EXCESS MATERIAL OFF SITE IN AN APPROVED MANNER. THE OWNER SHALL BE CONSULTED PRIOR TO DISPOSAL OF ANY EXCESS MATERIALS AT THE COMPLETION OF THE PROJECT.
- UPON COMPLETION OF WORK, ALL EXCESS MATERIAL, DEBRIS, ETC. SHALL BE REMOVED AND THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
- ALL WORK SHALL BE SCHEDULED IN COMPLIANCE WITH THE OWNER'S REQUIREMENTS FOR THE USE OF THE EXISTING FACILITY.
- MECHANICAL CONTRACTOR SHALL FURNISH ALL EQUIPMENT THAT MAY BE REQUIRED TO PERFORM THE WORK INDICATED IN A SAFE AND ORDERLY MANNER, AND AS NECESSARY FOR A PROPER OPERATIONAL
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND TEMPORARY SUPPORT OF ANY UTILITIES ENCOUNTERED DURING THE COURSE OF HIS WORK AND TO ENSURE THE OWNER'S
- FACILITY TO BE OPERATIONAL. MECHANICAL CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS, CONDITIONS
- AND ADDRESS ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FILLING AND CLEANING

AND ELEVATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES

UPON COMPLETION OF WORK. MECHANICAL CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS. ALL WRITTEN OR

DIMENSIONED INFORMATION TAKES PRECEDENCE OVER THE DRAWING.

- MECHANICAL CONTRACTOR SHALL SUBMIT, WHERE REQUIRED BY THE ARCH/ENGR, SHOP DRAWINGS AND SUBMITTALS FOR APPROVAL PRIOR TO THE START OF FABRICATION OF THOSE ITEMS. THIS INCLUDES ALL EQUIPMENT, SCHEMATIC DUCTWORK AND PIPING LAYOUT, MECHANICAL ROOM LAYOUT, ETC. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL EQUIPMENT ETC. WILL FIT (WITH PROPER MAINTENANCE CLEARANCES) AT ALL LOCATIONS. REVIEW OF SHOP DRAWINGS/SUBMITTALS BY THE ARCH/ENGR DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING THE CURRENT MODEL NUMBERS. TYPE, & FEATURES OF ALL EQUIPMENT'S & MATERIALS.
- MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT WITH CERTIFICATES OF INSURANCE PRIOR TO STARTING THE WORK.
- MECHANICAL CONTRACTOR SHALL SHALL BE RESPONSIBLE FOR SHORING AND BRACING OF EXISTING STRUCTURES AS NEEDED TO COMPLETE THE NEW WORK.
- 17. ALL MANUFACTURER'S MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC, SHALL BE HANDLED AND INSTALLED IN ACCORDANCE TO WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS WHERE BRAND NAMES AND MANUFACTURED PRODUCTS ARE CALLED FOR, APPROVED EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE SUBSTITUTED WITH WRITTEN PERMISSION OF THE ARCHITECT AND THE OWNER. WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN IN ADVANCE TO BE OF LIKE AND OF EQUAL OR BETTER QUALITY.
- ALL CHANGES SHALL BE REQUESTED IN WRITING AND MAY ONLY BE APPROVED IN WRITING BY THE ARCHITECT/ENGINEER AND THE OWNER PRIOR TO ANY CHANGES BEING MADE.
- THE ARCHITECT/ENGINEER HAS THE RIGHT TO REJECT ANY PORTION OF WORK THAT IS POORLY INSTALLED, DOES NOT MEET INDUSTRY STANDARD, UNAUTHORIZED, OR WORK DONE CONTRARY TO THE THE INTENT OF THE CONTRACT DOCUMENTS. SUCH WORK SHALL BE REPLACED, REPAIRED OR REMOVED AT THE CONTRACTOR'S EXPENSE.
- MECHANICAL CONTRACTOR SHALL GUARANTEE ALL HIS WORK AND THE WORK OF HIS SUBCONTRACTORS FOR A PERIOD ONE (1) YEAR AFTER RECEIVING FINAL ACCEPTANCE AND DO ALL REPAIR WORK AND REPLACEMENT AS NECESSARY DURING THAT PERIOD AT THE CONTRACTOR'S
- IN NO EVENT SHALL STRUCTURAL MEMBERS BE CUT OR DRILLED WITHOUT THE WRITTEN APPROVAL OF A
- ENGINEER/OWNER MAY ASK THE MECHANICAL CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS & SUBMITTALS OF ANY/ALL PARTS OF THIS PROJECT WHICH THE ENGINEER/OWNER DEEMS NECESSARY

#### **ABBREVIATIONS**

&	=	AND	HVAC	=	HEAT/VENT/AIR COND
@	=	AT			
	=	CENTER LINE	ID	=	INSIDE DIAMETER (DIM)
Ø	=	DIAMETER OR ROUND	IN	=	INCH
Ø	_	DIAWLILIC ON NOOND	INSUL	=	INSULATION
A D) /		A DOVE	IIVOOL		INCOLATION
ABV	=	ABOVE	LANI	_	IANITOD
AC	=	AIR CONDITIONING UNIT	JAN	=	JANITOR
ACC	=	AIR COOLED CONDENSING UNIT			
AD	=	ACCESS DOOR	LSD	=	LINEAR SLOT DIFFUSER
ADD'L	=	ADDITIONAL			
ADJ	=	ADJUSTABLE	MAX	=	MAXIMUM
AHU	=	AIR HANDLING UNIT	MD	=	MOTORIZED DAMPER
ALT	=	ALTERNATE	MECH	=	MECHANICAL
ALI	_	ALILINAIL	MEP	=	MECHANICAL/ELECTRICAL/PLUMBING
DD	_	DACEBOARD	MFR	=	MANUFACTURER
BB	=	BASEBOARD	MIN	=	MINIMUM
BDD	=	BACK DRAFT DAMPER			
BLDG	=	BUILDING	MISC	=	MISCELLANEOUS
BOD	=	BOTTOM OF DUCT	MO	=	MASONRY OPENING
BOS	=	BOTTOM OF STEEL			
			N.A.	=	NOT APPLICABLE
CD	=	CONDENSATE DRAIN	NK	=	NECK SIZE
CH	=	CABINET HEATER	NTS	=	NOT TO SCALE
			1110		NOT TO COME
CL	=	CLOSET	O 4	_	OLITCIDE AID
CLG	=	CEILING	OA	=	OUTSIDE AIR
CO	=	CARBON MONOXIDE	OC	=	ON CENTER
COL	=	COLUMN	OD	=	OUTSIDE DIAMETER
CONST	R=	CONSTRUCTION	OPG	=	OPENING
CONT	=	CONTINUOUS			
CORR		CORRIDOR	R	=	RISER
CTR	=	CENTER	RA	=	RETURN AIR
CV			RAD	=	RADIUS
	=	CONVECTOR	RAG	=	RETURN AIR GRILLE
CW	=	COLD WATER			
			RAR	=	RETURN AIR REGISTER
DET	=	DETAIL	RM	=	ROOM
DIA	=	DIAMETER	RTU	=	ROOF TOP HV/HVAC UNIT
DIM	=	DIMENSION			
DN	=	DOWN	SA	=	SUPPLY AIR
DSD	=	DUCT SMOKE DETECTOR	SAD	=	SUPPLY AIR DIFFUSER
DWG	=	DRAWING	SAR	=	SUPPLY AIR REGISTER
DVVO	_	DIAWING	SD	=	SMOKE DETECTOR
_^		FAOLI	SECT		SECTION
EA	=	EACH	SP	=	SUMP PUMP
EAR	=	EXHAUST AIR REGISTER			
EF	=	EXHAUST FAN	SPEC		SPECIFICATION
ELEC	=	ELECTRIC	STD	=	STANDARD
<b>ENGR</b>	=	ENGINEER (ING)	STG	=	STORAGE
EQ	=	EQUAL			
EQUIP	=	EQUIPMENT	TG	=	TRANSFER AIR GRILLE
		Eddi MEITT	TOD	=	TOP OF DUCT
FAI	=	FRESH AIR INTAKE	TX	=	TOILET EXHAUST
			TYP	=	TYPICAL
FC	=	FLEXIBLE CONNECTION	1 11	_	TITIOAL
FCU	=	FAN COIL UNIT			LINUTLIEATED
FD	=	FIRE DAMPER	UH	=	UNIT HEATER
FF	=	FINISHED FLOOR	UTIL	=	UTILITY ROOM
FLR	=	FLOOR			
FP	=	FIRE PROTECTION	VD	=	VOLUME DAMPER
FSD	=	FIRE/SMOKE DAMPER	VG	=	GAS VENT LINE
. 00		THE SWICKE BY WILL EX	VFD	=	VARIABLE FREQUENCY DRIVE
GA	=	GAUGE	VIF	=	VERIFY IN FIELD
			V 11		VERMI HALIELD
GALV	=	GALVANIZED	۱۸//	_	\\/\TL
GPM	=	GALLONS PER MINUTE	W/	=	WITH
			W/O	=	WITHOUT
			WMS	=	WIRE MESH SCREEN
			WT	=	WEIGHT

	= SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND AND CFM INDICATED ON PLANS
	= 3-WAY SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND AND CFM INDICATED ON PLANS.
	= 2-WAY SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND AND CFM INDICATED ON PLANS.
<b>→</b>	= RETURN AIR REGISTER (RAR) WITH NECK SIZE AND CFM INDICATED ON PLANS
~~ <u> </u>	= EXHAUST AIR REGISTER (EAR); GRAVITY RELIEF GRILLE (GRG) WITH NECK SIZE AND CFM INDICATED ON PLANS
	= SUPPLY AIR WALL REGISTER/GRILLE (SAR) WITH NECK SIZE AND CFM INDICATED ON PLANS
<b>-</b> √-	= RETURN AIR WALL REGISTER (RAR) WITH NECK SIZE AND CFM INDICATED ON PLAN
OR <u>W"XD"</u>	= INDICATES HARD DUCT WITH INTERNAL LINING (DIMENSIONS ARE INSIDE CLEAR WIDTH & DEPTH)
OR W" X D"	= INDICATES HARD DUCT (DIMENSIONS ARE INSIDE CLEAR WIDTH & DEPTH)
	= INDICATES FLEXIBLE DUCT (DIMENSIONS ARE INSIDE CLEAR DIAMETER; LENGTH NOT TO EXCEED FOUR (4) FEET (IN COMMONS AREA ONLY)
	= DUCT TURN UP (SUPPLY, RETURN, EXHAUST)
	= DUCT TURN DOWN (SUPPLY, RETURN, EXHAUST)

= DUCT SMOKE DETECTOR WITH ACCESS DOOR

= INDICATES NEW WALL MOUNTED THERMOSTAT

= FIRE DAMPER WITH ACCESS DOOR

FSD/AD = FIRE/SMOKE DAMPER WITH ACCESS DOOR

= BACK DRAFT DAMPER

= MOTORIZED DAMPER

= CO2 SENSOR

— = PIPE TURN UP

---- = REFRIGERANT PIPING

= PIPE TURN DOWN

= VOLUME DAMPER

#### H.V.A.C. GENERAL NOTES

- PROCURE AND PAY ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT THE WORK SHOWN. OBTAIN AND PAY FOR ALL FEES.
- COMPLY WITH ALL FEDERAL, STATE AND MUNICIPAL LAWS AND CODES, ORDINANCES, RULES AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIALS TO BE USED OR ACTIONS OF THOSE EMPLOYED.
- GUARANTEE H.V.A.C. SYSTEMS FOR A PERIOD OF ONE YEAR FROM OWNER'S ACCEPTANCE TO BE FREE FROM DEFECTS AND REPAIR OR REPLACE, AT NO COST TO OWNER, FAILURES OR DEFECTS.
- 4. H.V.A.C. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL HIS DEBRIS.
- BALANCE AIR AND WATER SYSTEMS TO QUANTITIES INDICATED. CONTRACTOR TO SUBMIT SIX (6) SETS OF AIR, WATER AND UNIT BALANCING REPORT TO ARCH./ENGR./OWNER PRIOR TO FINAL ACCEPTANCE OF THE
- BIDDERS FOR THIS WORK SHALL VISIT THE PREMISES AND CAREFULLY EXAMINE ALL EXISTING CONDITIONS
- BEFORE SUBMITTING BIDS. NOT ALL EXISTING CONDITIONS HAVE BEEN IDENTIFIED ON DRAWINGS. CONTRACTOR SHALL NOTIFY ARCH. & ENGR. OF ALL DISCREPANCIES PRIOR TO SUBMITTING BID.

PROPERTY AND ALL OTHER INFORMATION NECESSARY TO PROPERLY CARRY OUT THE WORK.

THE CONTRACTOR SHALL, WITH THE APPROVAL OF THE ENGINEER AND WITHOUT ADDITIONAL COST TO THE OWNER. MAKE ALL NECESSARY CHANGES OR MODIFICATIONS TO LOCATIONS AS MAY BE NECESSARY TO SUIT REQUIREMENTS AND CONDITIONS FOR THE PROPER AND CONVENIENTLY ACCESSIBLE LOCATIONS OF ALL

ALL BIDDERS SHALL ALSO FAMILIARIZE THEMSELVES WITH THE MEANS OF ENTRANCE AND EXIT AT THE

- SMALL DETAILS ARE NOT USUALLY SHOWN OR SPECIFIED BUT ALL MATERIALS & COMPONENTS NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OR WORK SHALL BE FURNISHED AND INSTALLED AT NO
- THE CONTRACTOR SHALL NOTE THAT ALL SERVICE CONNECTIONS MAY NOT BE SHOWN IN TRUE POSITIONS. EACH BIDDER IS CAUTIONED, THEREFORE, TO VERIFY SAME WITH FIELD CONDITIONS.
- 11. CONTRACTOR SHALL CHECK FOR INTERFERENCE AND VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OR INSTALLATION OF PIPING AND DUCTWORK.
- 12. IF AN ITEM OF EQUIPMENT OTHER THAN THE ITEM(S) SPECIFIED IS APPROVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COST ARISING OUT OF ADDITIONAL OR CHANGED GENERAL CONSTRUCTION AND MECHANICAL WORK REQUIRED TO ACCOMMODATE THE SUBSTITUTED EQUIPMENT.
- ALL EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS AND RECOMMENDATIONS
- CONTRACTOR TO SUBMIT SIX (6) SETS OF DUCT AIR LEAKAGE TESTING REPORT FOR REVIEW.
- PROVIDE ONE SET OF SPARE FILTERS FOR ALL INSTALLED HV/HVAC UNITS.

ADDITIONAL COST.

- PROVIDE TWO YEAR MAINTENANCE SERVICE FOR ALL INSTALLED HV/HVAC/MECHANICAL SYSTEMS. THIS INCLUDES A MINIMUM OF THREE PERIODIC SERVICE VISITS TO INSPECT, TEST & CHECK ALL COMPONENTS OF HVAC/HV UNITS AND ANY ADDITIONAL VISITS REQUIRED IF ANY HVAC/HV UNIT FAILS. ALL NECESSARY BELT ALIGNMENTS, PROPER OPERATIONS OF ALL DAMPERS, ETC IS INCLUDED IN THIS SCOPE OF WORK.
- PROVIDE FIRE DAMPERS/ACCESS DOORS AT ALL DUCT PENETRATIONS THROUGH CORRIDORS, SLABS AND OTHER RATED PARTITIONS, IRRESPECTIVE OF WHETHER IT IS INDICATED ON THE DRAWINGS OR NOT.
- PROVIDE FIRE STOPPING AROUND ALL OPENINGS FOR DUCT, PIPING, CONDUIT, ETC. PENETRATIONS THROUGH CORRIDORS, SLABS AND OTHER RATED PARTITIONS.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTAINER SERVICES AND LABOR TO KEEP THE
- CONTRACTOR TO PROVIDE NEW WALL MOUNTED THERMOSTATS FOR ALL AHU'S, RTU'S, VAV BOXES, CABINET HEATERS. UV'S FCU'S. AC UNITS. ETC. IRRESPECTIVE OF WHETHER THEY ARE INDICATED ON ALL DRAWINGS OR NOT. CONTRACTOR TO INDICATE THERMOSTAT LOCATIONS ON ALL SHOP DRAWINGS.PROVIDE TAMPER PROOF ENCLOSURES FOR ALL THERMOSTATS LOCATED IN PUBLIC SPACES.
- CONTRACTOR TO NOTE THAT BOTH DWGS. & SPECS. ARE COLLECTIVELY A PART OF BID REQUIREMENTS. IN CASE OF ANY DIFFERENCES BETWEEN VARIOUS DWGS. OR BETWEEN DWGS. & SPECS, THE MOST STRINGENT REQUIREMENT WILL PREVAIL.
- CONTRACTOR TO SUBMIT SIX (6) SETS OF OPERATION & MAINTENANCE MANUALS, INCLUDING A SUMMARY SHEET OF ALL EQUIPMENT MFRS/MODEL #/SERIAL #'S, SHOP DRAWING SUBMITTALS, WARRANTY INFORMATION, **O&M MANUALS, PROJECT INFORMATION, CONTACT DETAILS & AS-BUILT DRAWINGS.**
- CONTRACTOR TO PROVIDE SIX (6) SETS AND AN ELECTRONIC COPY OF AS-BUILT DRAWINGS OF THE ENTIRE
- PROVIDE PROPER IDENTIFICATION TAGS, ARROWS, AND LABELS FOR ALL EQUIPMENT INCLUDING RTUS, DUCTWORK, PIPING, VALVES, ELECTRICAL PANELS, ETC.
- CONTRACTOR TO PROVIDE A MINIMUM OF TWO (2) TRAINING SESSIONS (TWO HOURS EACH) THAT ARE TO BE VIDEOTAPED FOR THE OWNERS USE, TO OWNER'S MAINTENANCE STAFF ON PROPER OPERATION, MAINTENANCE & COMMON TROUBLE-SHOOTING GUIDELINES FOR ALL NEW EQUIPMENT.

### H.V.A.C. MATERIALS

#### EQUIPMENT:

REFER TO SCHEDULES FOR UNIT MANUFACTURER, SIZE, AND CAPACITY DATA

#### DUCTWORK:

- INDOOR SUPPLY, RETURN AND EXHAUST DUCTWORK, EXCEPT AS INDICATED BELOW, SHALL BE GALVANIZED STEEL CONSTRUCTION. WEIGHTS AND CONSTRUCTION DETAIL SHALL BE IN ACCORDANCE WITH THE LATEST ASHRAE GUIDE AND/OR SMACNA STANDARDS.
- SHOWER AREAS EXHAUST AND OUTDOOR AIR INTAKE DUCTWORK SHALL BE ALUMINUM CONSTRUCTION, CLASS "A" SEALED
- FLEXIBLE DUCTWORK: SHALL NOT EXCEED FOUR (4) FEET IN LENGTH (IN COMMONS BUILDING ONLY). FOR ANY HORIZONTAL FLEX DUCT BRANCH TO A CEILING DIFFUSER, FURNISH A 90° BRACE TO MAINTAIN A LONG RADIUS ELBOW TO THE DIFFUSER ("TITUS" MAKE, MODEL
- FIRE DAMPER: GREENHECK MAKE, MODEL FD-150 TYPE B (BLADES OUT OF AIRSTREAM), 1-1/2 HOUR RATED (UNLESS OTHERWISE NOTED) UL-555 LABELED DAMPER WITH STANDARD FRAME OR APPROVED EQUAL. PROVIDE WITH A RETAINING ANGLE AND AN ACCESS DOOR.

### PIPING:

- GAS PIPING: SHALL BE SCHEDULE #40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS (PIPE SIZE 2" AND SMALLER) AND WELDED FITTINGS (PIPE SIZE 2-1/2" AND LARGER)
- CONDENSATE DRAIN PIPING: SHALL BE HARD COPPER TYPE "L" WITH WROUGHT COPPER REFRIGERANT PIPING: SHALL BE HARD COPPER TYPE "K" WITH WROUGHT COPPER FITTINGS.

#### INSULATION:

- EXTERNAL DUCT INSULATION: 1" THICK, MIN. 1.5 LB. DENSITY FLEXIBLE FIBERGLASS DUCT INSULATION WITH REINFORCED FOIL FACED FLAME RESISTANT KRAFT VAPOR BARRIER, ADHERED TO DUCT W/ SEALED LAPS AND TAPED JOINTS.
- INTERNALLY LINED DUCT: 1" THICK, MIN. 1.0 LB. DENSITY RIGID INSULATION ADHERED TO DUCT. DUCTS WIDER THAN 12" TO HAVE WELDED PINS AND WASHERS. DUCT DIMENSIONS AS INDICATED ARE CLEAR INSIDE DUCT DIMENSIONS. \
  - ALL SUPPLY & RETURN AIR DUCTWORK SHALL BE INTERNALLY LINED FOR A MIN. OF 25' TO AND FROM ANY RTU OR AHU.
  - ALL SUPPLY AIR DUCTWORK SHALL BE INTERNALLY LINED FOR A MINIMUM OF 15' DOWNSTREAM OF ALL VAV BOXES

DUCT INSULATION NOTE: PROVIDE A MINIMUM 6" OVERLAP WHERE INTERNAL INSULATION ENDS

- AND EXTERNAL INSULATION BEGINS. ALL CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK CLOSED-CELL
- ELASTOMERIC INSULATION ("AP ARMAFLEX BLACK LAPSEAL" OR EQUAL). FRESH AIR INTAKE AND EXPOSED DUCT: 1" THICK, MIN. 2 LB. DENSITY RIGID FIBERGLASS DUCT
- INSULATION WITH FOIL FACING VAPOR BARRIER FASTENED WITH WELDED CLIPS, CEMENTED JOINTS WITH ALUMINUM TAPE.
- OUTDOOR DUCTWORK INSULATION: ALL OUTDOOR DUCTWORK SHALL BE ALUMINUM CONSTRUCTION AND PROVIDED WITH BOTH 2" THICK, 6LB. DENSITY ACOUSTIC LINING WITH IAQ LINER AS WELL AS EXTERNAL INSULATION (MIN. 1.5" THICK AND 6 LB DENSITY). EXTERNAL INSULATION SHALL BE SLOPED (MIN. 1/4" PÈR FOOT) ON ALL UPWARD FACING HORIZONTAL SURFACES TO EFFECTIVELY DRAIN WATER OFF OF THE DUCTWORK. ALL DUCT CONNECTION JOINTS ETC SHALL BE GALVANIZED STEEL. DUCTWORK SHALL BE CLASS "A" SEALED AS PER SMACNA. PROVIDE SOLVENT BASED OUTDOOR DUCT SEALANT, RESISTANT TO UV LIGHT, UL 734 LISTED, WATER RESISTANT AS PER SMACNA. PROVIDE 2MM THICK ALUMINIZED FACED LOADED LIMP VINYL SHEET LAGGING WRAPPED AROUND THE DUCT AND FASTENED WITH ADHESIVE TAPE AND BANDS FOR A WATER TIGHT CONSTRUCTION WHICH MEETS CLASS 1 REQUIREMENTS FOR SMOKE DEVELOPMENT AND FLAME SPREAD RATINGS. SUBMIT VINYL SHEET LAGGING SAMPLE FOR APPROVAL BEFORE INSTALLATION. (TYPICAL FOR ALL OUTDOOR DUCTWORK ON THIS

#### AIR DEVICES:

- SAD TITUS MAKE, MODEL OMNI
- RAR TITUS MAKE, MODEL 4FL EAR - TITUS MAKE, MODEL 4FL
  - ALL CEILING DIFFUSERS LOCATED IN ACOUSTIC CEILING GRID SHALL BE PROVIDED WITH FRAME TYPE FOR GRID MOUNTING. IF THE TILE IS SMALLER THAN TILE SIZE.
  - THE DIFFUSER SHALL BE PROVIDED WITH FRAME TYPE FOR CEILING TYPE. ALL CEILING DIFFUSERS LOCATED IN GYPSUM BOARD AND/OR CONCEALED SPLINE CEILINGS SHALL BE PROVIDED WITH FRAME TYPE FOR SURFACE MOUNTING

PROVIDE FACTORY INSTALLED 90° BLANK-OFF PLATE(S) IN ALL 2 AND 3 WAY

- COLOR OF AIR OUTLETS/INLETS SHALL MATCH THE CEILING COLOR.
- ALL AIR OUTLETS/INLETS TOILETS, CORRIDORS, AND KITCHEN SHALL BE ALUMINUM CONSTRUCTION

### **ACCESS DOORS**

FURNISH AND INSTALL ACCESS DOORS AT ALL LOCATIONS WHERE VALVES, DAMPERS, CONTROLS, VENTS, DRAINS, ETC. ARE TO BE INSTALLED ABOVE OR BEHIND ANY INACCESSIBLE SURFACE (GYPSUM BOARD, CMU, ETC.), IRRESPECTIVE OF WHETHER THEY ARE INDICATED ON ALL DRAWINGS OR NOT. ACCESS DOORS SHALL BE A SUITABLE SIZE TO MAINTAIN, OPERATE, REPAIR, AND REPLACE ALL EQUIPMENT. ACCESS DOORS SHALL BE FACTORY PRIMED AND PAINTED TO MATCH THE SURFACE IN WHICH THEY ARE INSTALLED.

#### MECHANICAL DRAWING LIST Drawing# | Title MECHANICAL NOTES, SYMBOLS & ABBREVIATIONS IL WEST LEVEL 0 MECHANICAL PLAN IL WEST LEVEL 1 MECHANICAL PLAN IL WEST LEVEL 2 MECHANICAL PLAN IL WEST LEVEL 3 MECHANICAL PLAN IL WEST LEVEL 4 MECHANICAL PLAN IL WEST ROOF MECHANICAL PLAN IL EAST LEVEL 0 MECHANICAL PLAN IL EAST LEVEL 1 MECHANICAL PLAN IL EAST LEVEL 2 MECHANICAL PLAN IL EAST LEVEL 3 MECHANICAL PLAN IL EAST LEVEL 4 MECHANICAL PLAN M2.12 IL EAST ROOF MECHANICAL PLAN M2.13 **ENLARGED UNIT PLANS** M2.14 ENLARGED UNIT PLANS ENLARGED UNIT PLANS M2.16 ENLARGED UNIT PLANS **ENLARGED UNIT PLANS ENLARGED UNIT PLANS** ENLARGED PARTIAL FLOOR PLANS IL WEST BUILDING MECHANICAL VRF ZONING PLAN IL EAST BUILDING MECHANICAL VRF ZONING PLAN MECHANICAL SCHEDULES MECHANICAL SCHEDULES M6.03 MECHANICAL DETAILS MECHANICAL CONTROL DIAGRAMS

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SENIOR LIVING AT PURCHASE COLLEGE

AT. **S** – BRO, PUR

# hord coplan macht

ARCHITECTURE LANDSCAPE ARCHITECTURE

PLANNING INTERIOR DESIGN

> LICENSE NUMBER: 090385 EXPIRATION DATE: 10/31/23



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no. date revision **BROADVIEW - SENIOR LIVING AT PURCHASE** COLLEGE - IL BUILDINGS

4.1308.01 4/30/2021

Project Number

1/8" = 1'-0"

MECHANICAL NOTES, SYMBOLS & ABBREVIATIONS

PERMIT / GMP SET

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SENIOR LIVING





SENIOR LIVING

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SENIOR LIVING

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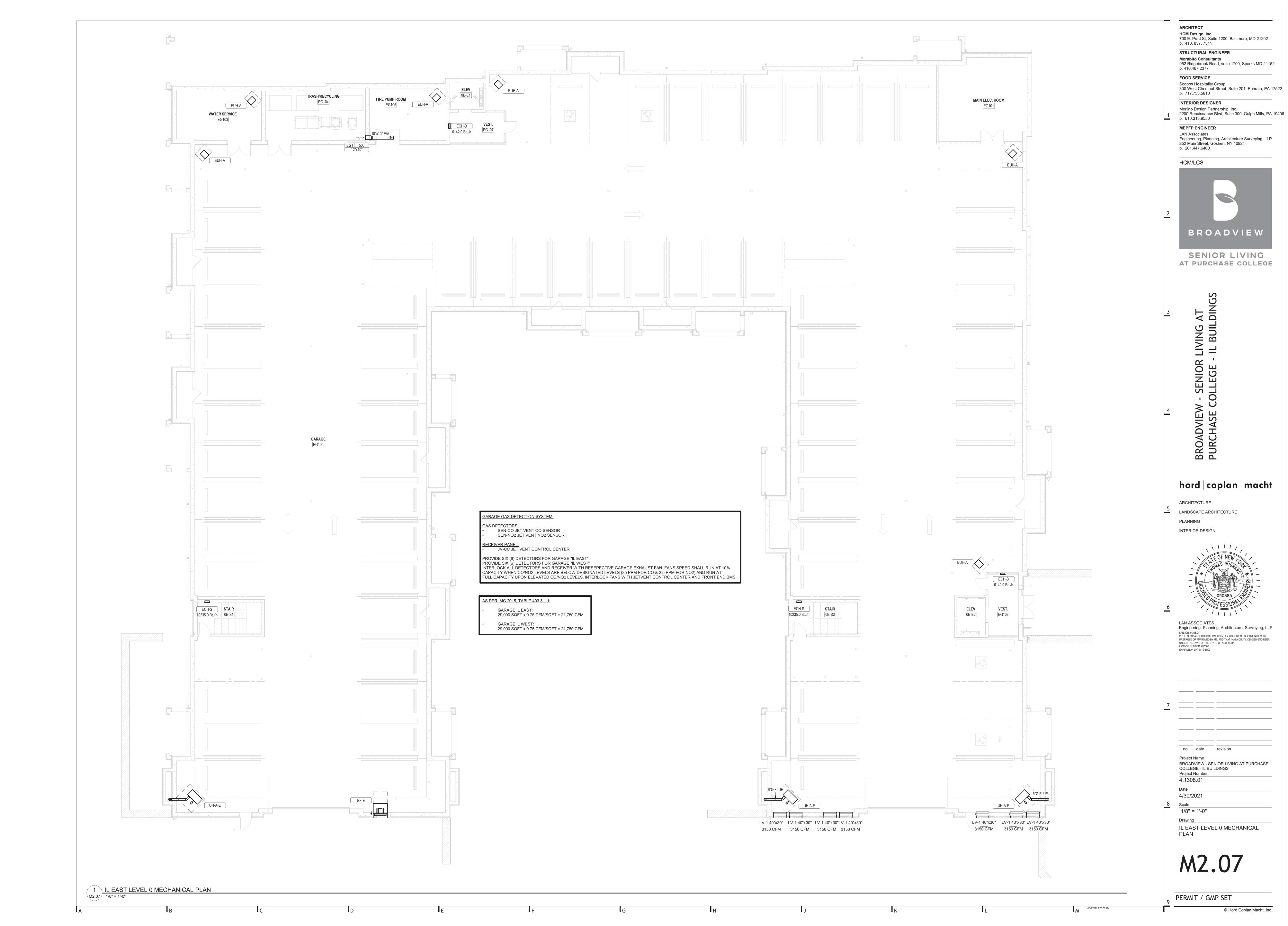


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Merlino Design Partnership, Inc. 2200 Renaissance Blvd, Suite 300, Gulph Mills, PA 19406 p. 610.313.9550



SENIOR LIVING

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LANDSCAPE ARCHITECTURE

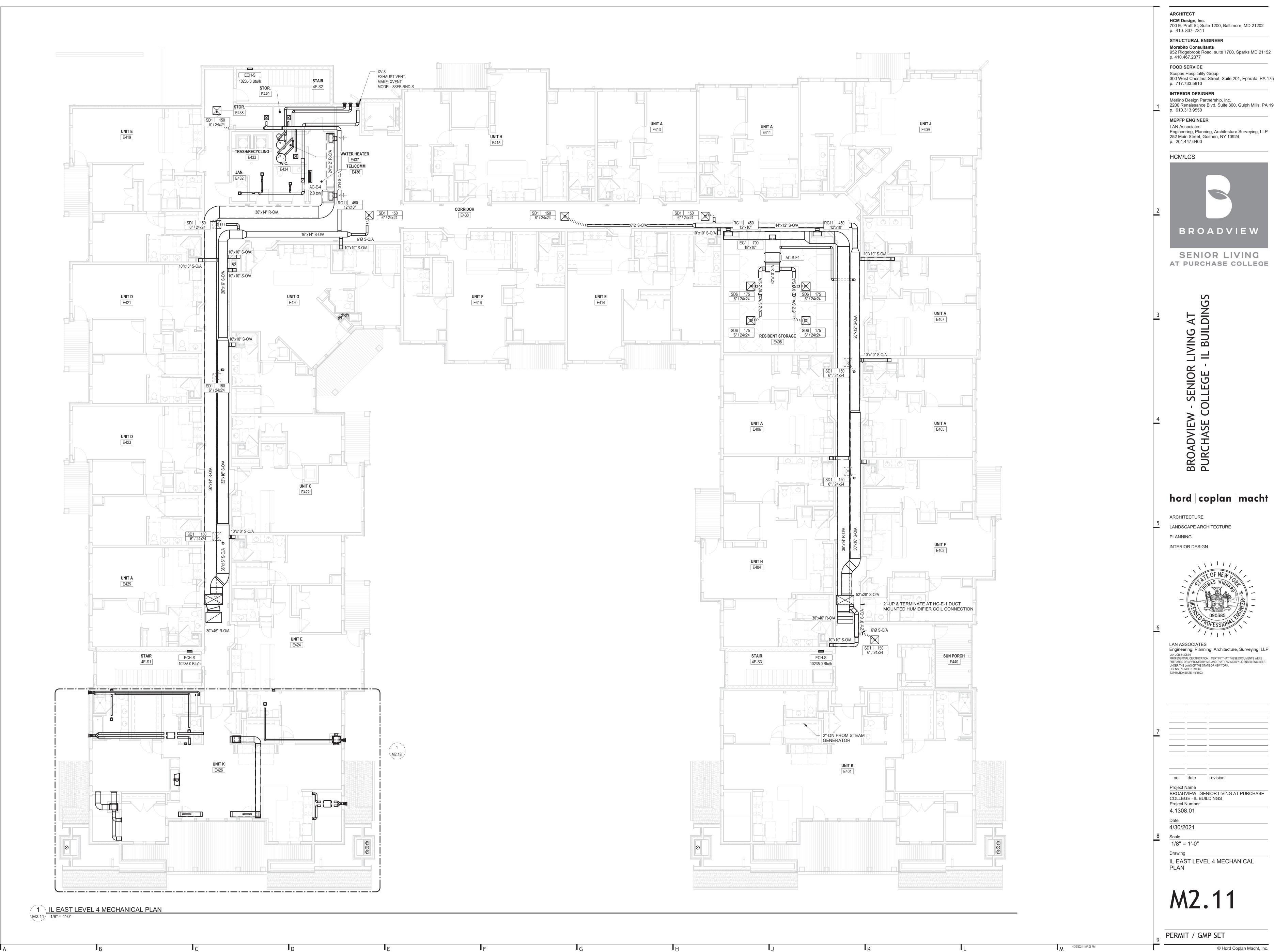


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LICENSE NUMBER: 090385
EXPIRATION DATE: 10/31/23

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no.	date	revision

Project Name
BROADVIEW - SENIOR LIVING AT PURCHASE
COLLEGE - IL BUILDINGS

IL EAST LEVEL 3 MECHANICAL PLAN



ARCHITECT **HCM Design, Inc.** 700 E. Pratt St, Suite 1200, Baltimore, MD 21202 p. 410. 837. 7311

STRUCTURAL ENGINEER **Morabito Consultants** 952 Ridgebrook Road, suite 1700, Sparks MD 21152 p. 410.467.2377

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INTERIOR DESIGNER Merlino Design Partnership, Inc. 2200 Renaissance Blvd, Suite 300, Gulph Mills, PA 19406 p. 610.313.9550

**MEPFP ENGINEER** 



SENIOR LIVING AT PURCHASE COLLEGE

- SENIOR LIVING AT OLLEGE - IL BUILDINGS

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LICENSE NUMBER: 090385
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Project Name
BROADVIEW - SENIOR LIVING AT PURCHASE
COLLEGE - IL BUILDINGS

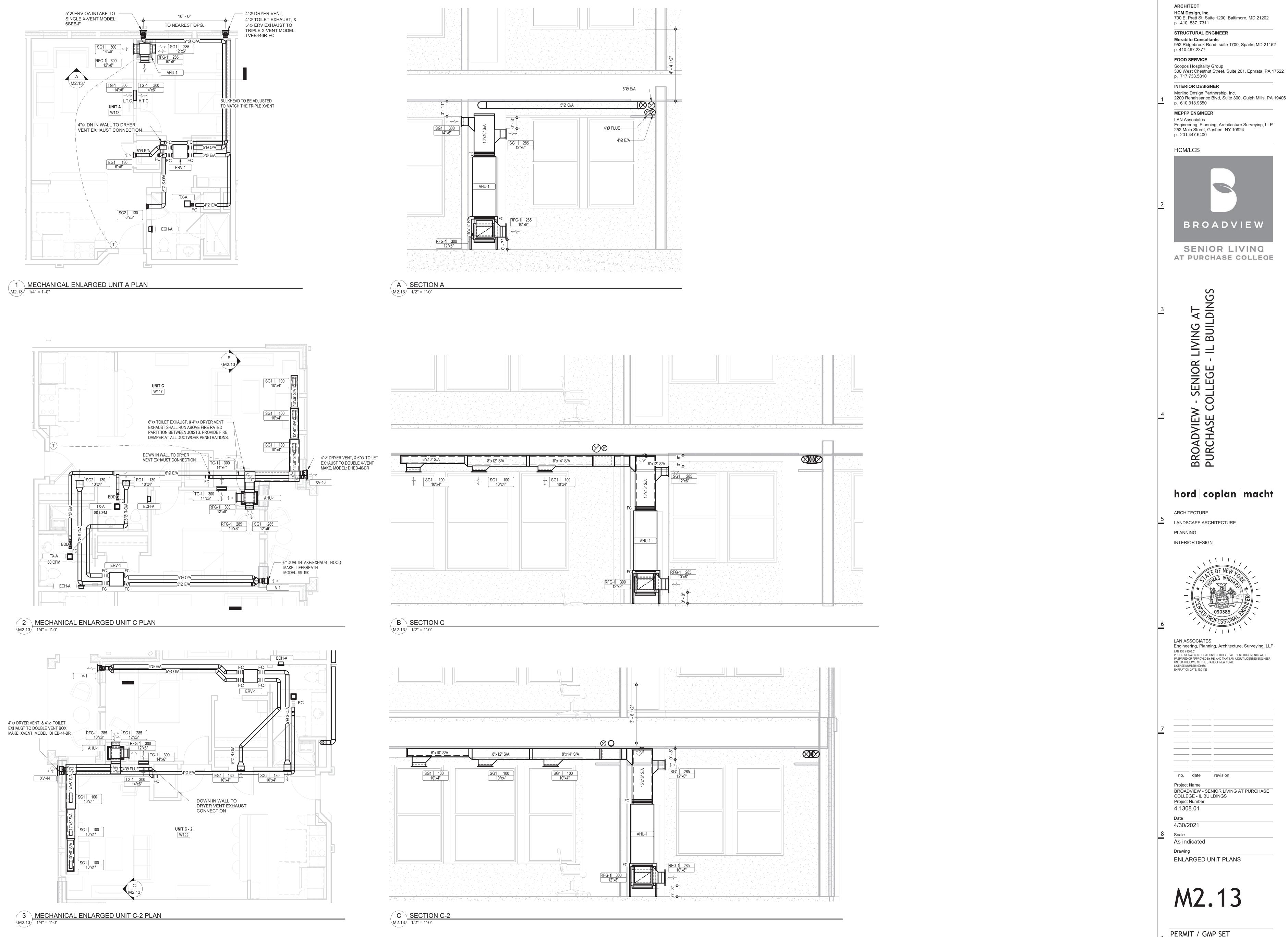
Project Number 4.1308.01

4/30/2021

IL EAST LEVEL 4 MECHANICAL PLAN

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**MEPFP ENGINEER** 

Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924 p. 201.447.6400



SENIOR LIVING AT PURCHASE COLLEGE

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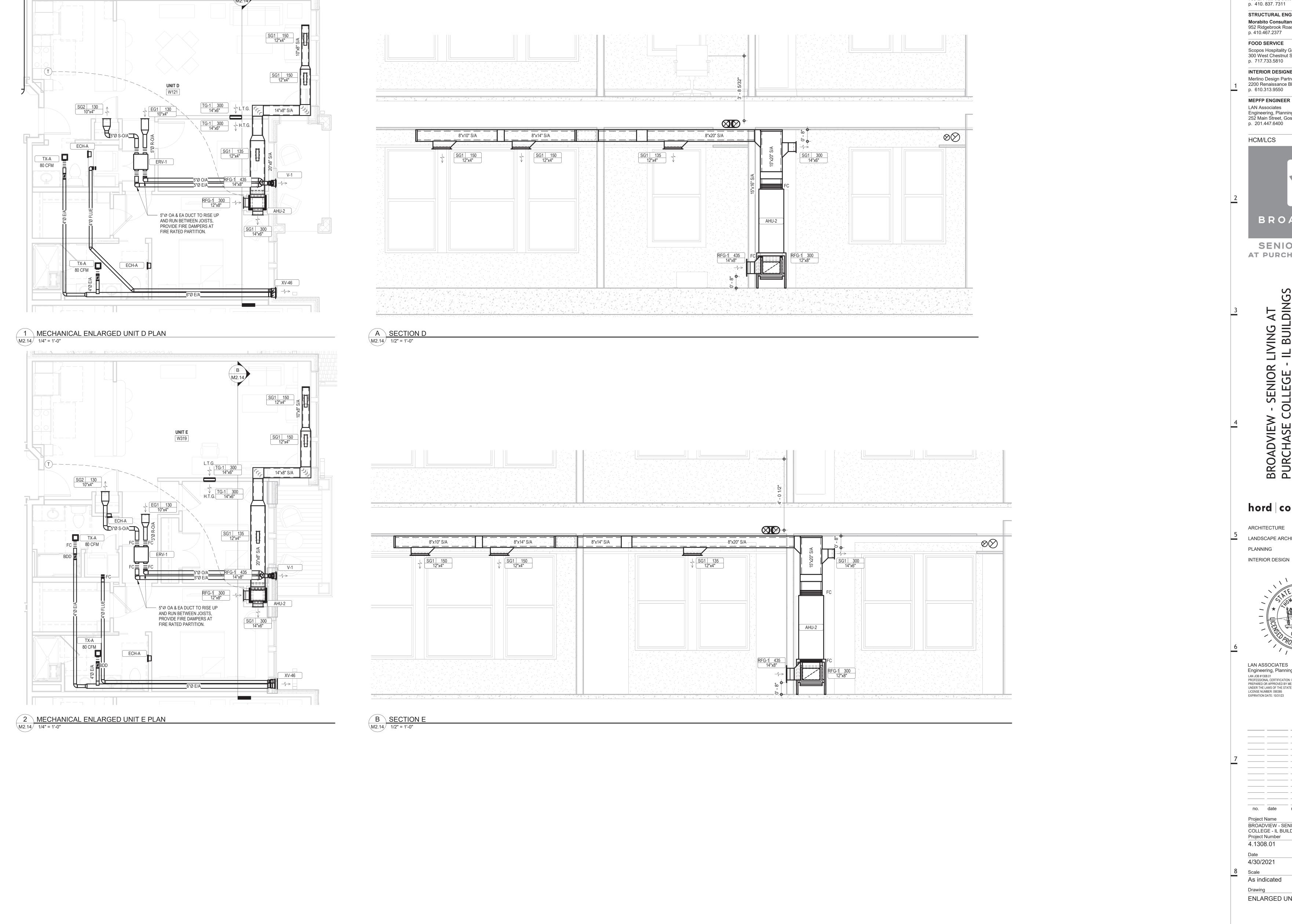
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SENIOR LIVING AT PURCHASE COLLEGE

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Project Name
BROADVIEW - SENIOR LIVING AT PURCHASE
COLLEGE - IL BUILDINGS Project Number 4.1308.01

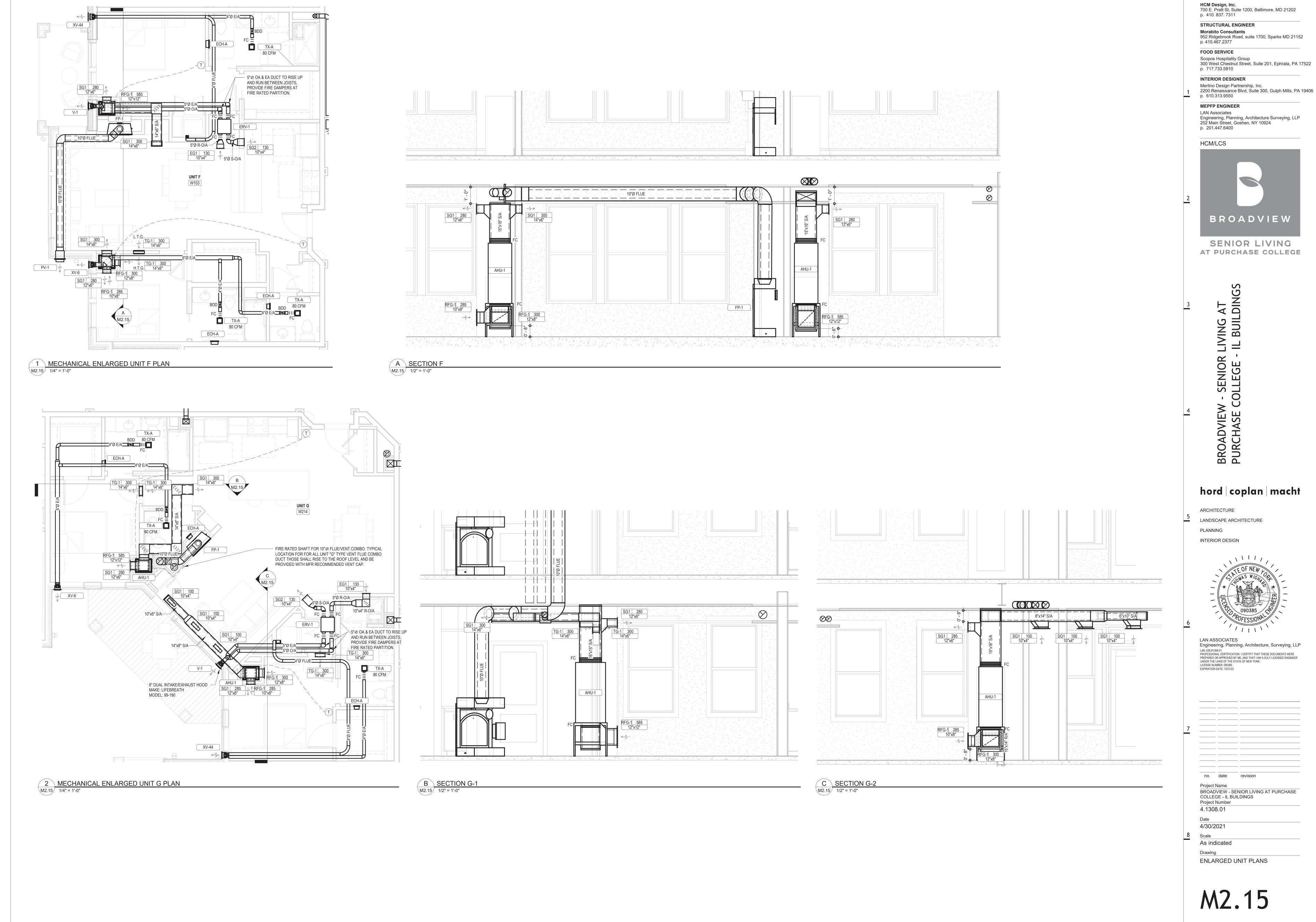
Date 4/30/2021

Scale
As indicated

ENLARGED UNIT PLANS

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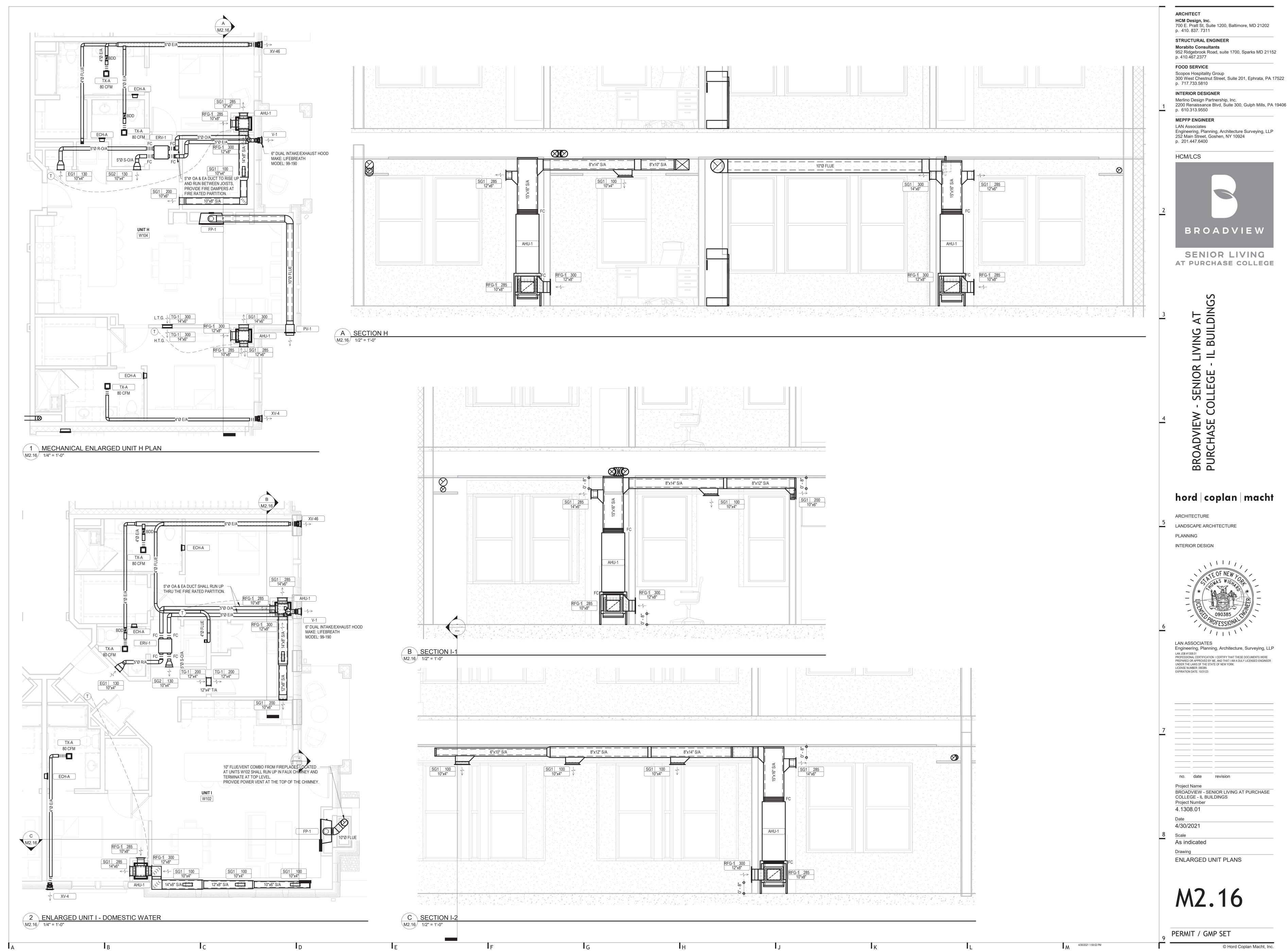


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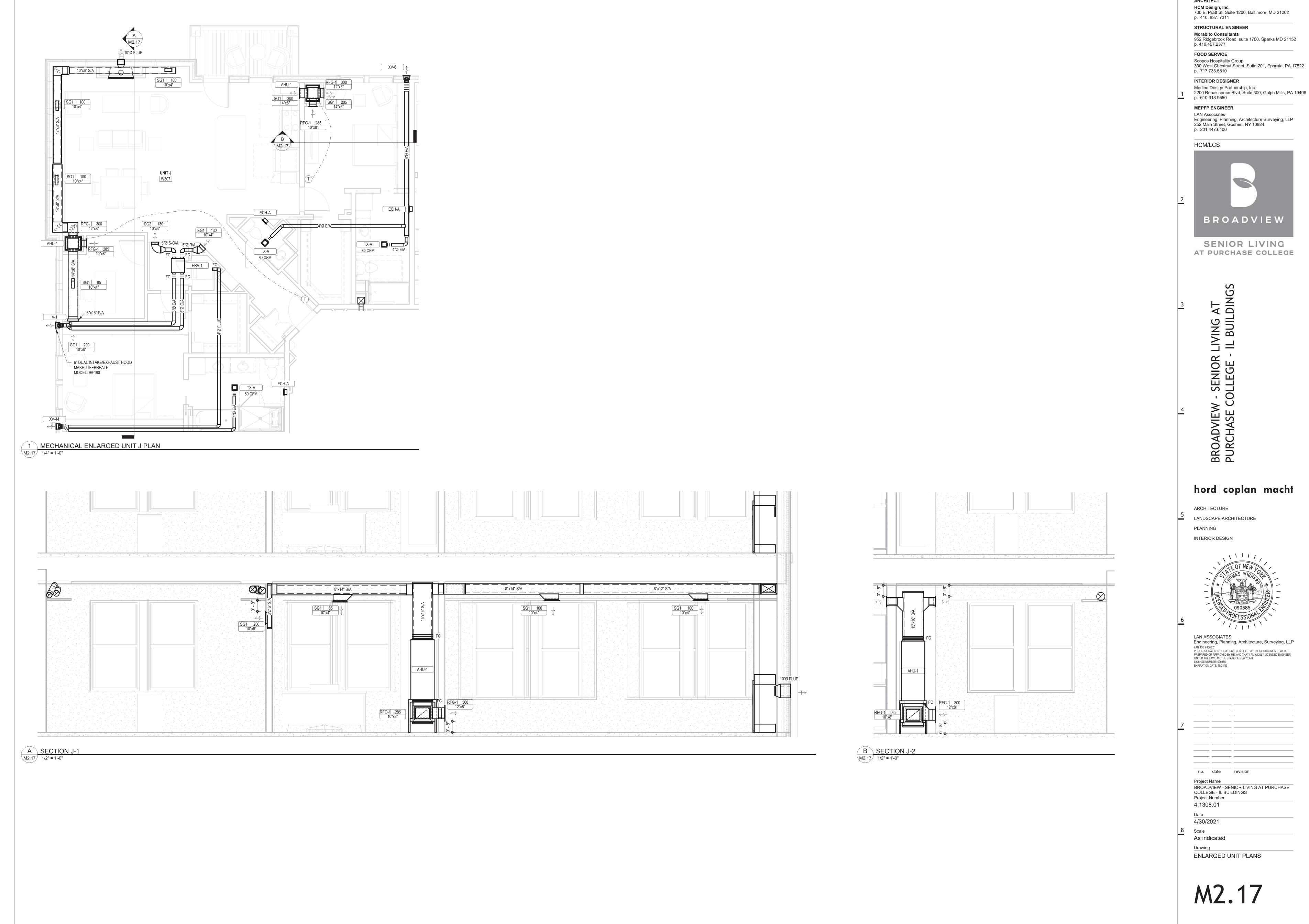
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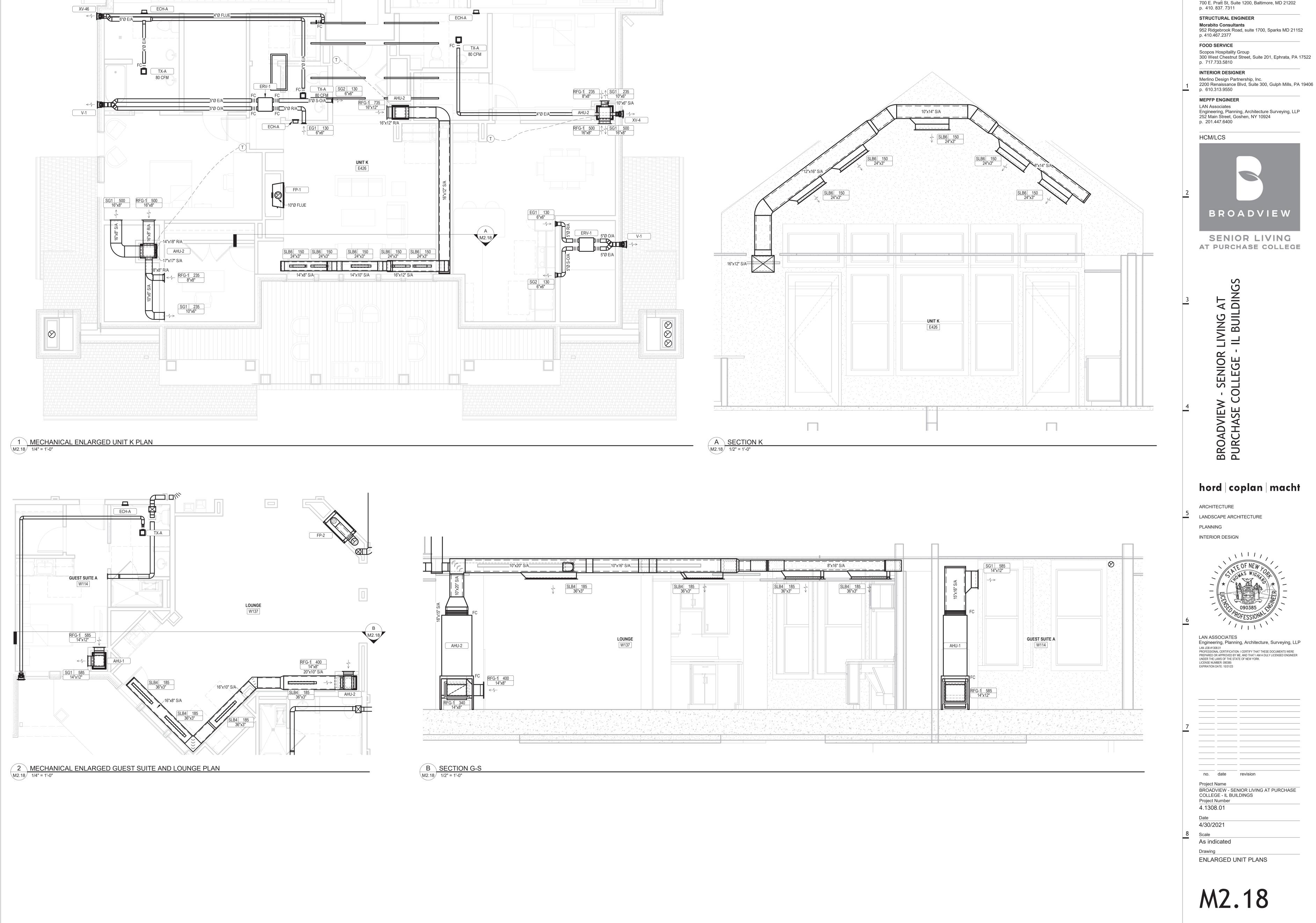
BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - IL BUILDINGS



**ARCHITECT** 

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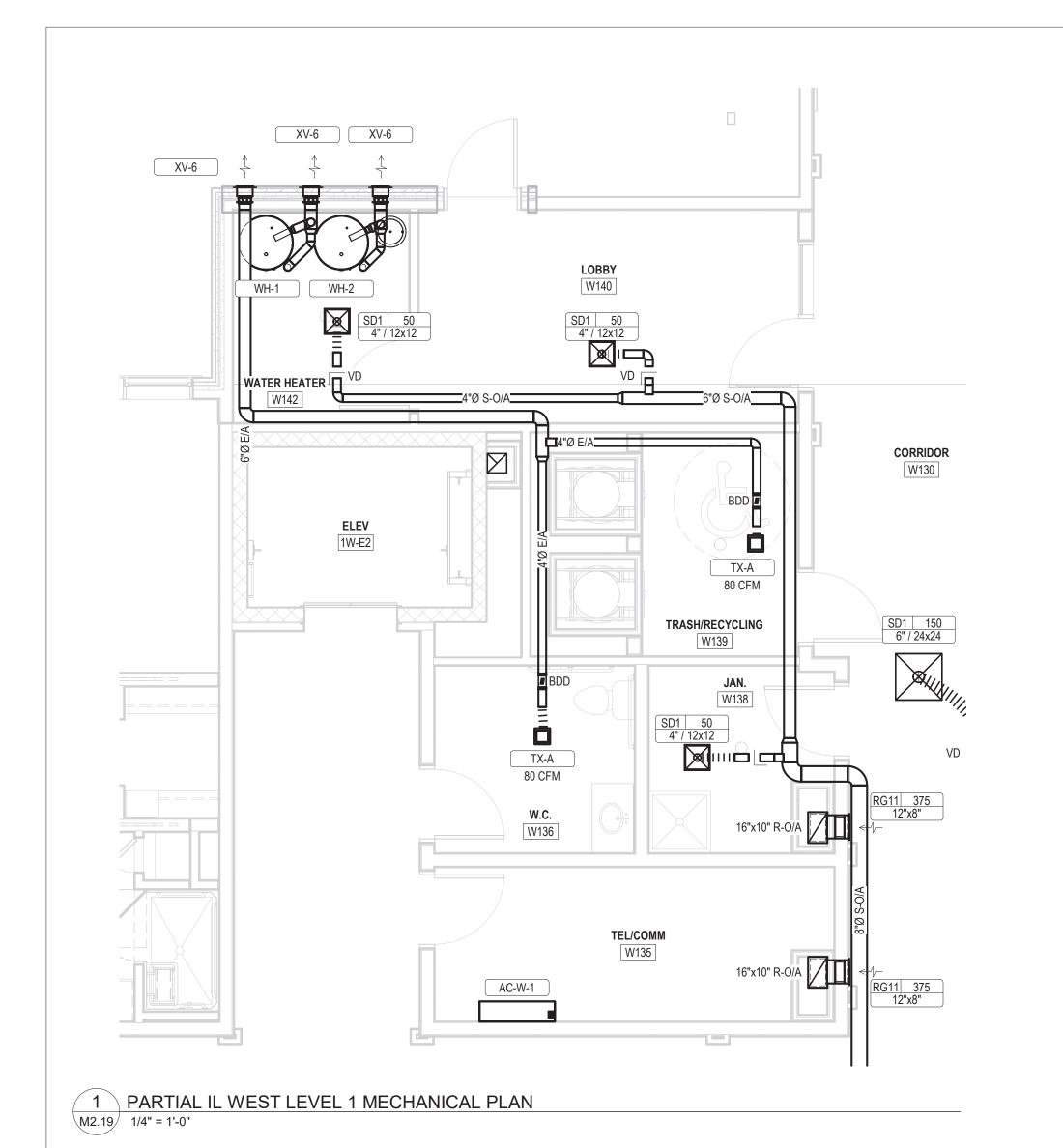


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Project Name
BROADVIEW - SENIOR LIVING AT PURCHASE
COLLEGE - IL BUILDINGS

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2 PARTIAL IL WEST LEVELS 2 THRU 4 MECHANICAL PLAN M2.19 1/4" = 1'-0"

XV-6

SD1 50 4" / 12x12

WATER HEATER

2W-E2

CORRIDOR

W230

\_\_\_\_\_\_XV-6

10"x10" E/A

W236

AC-W-2

XV-8

80 CFM

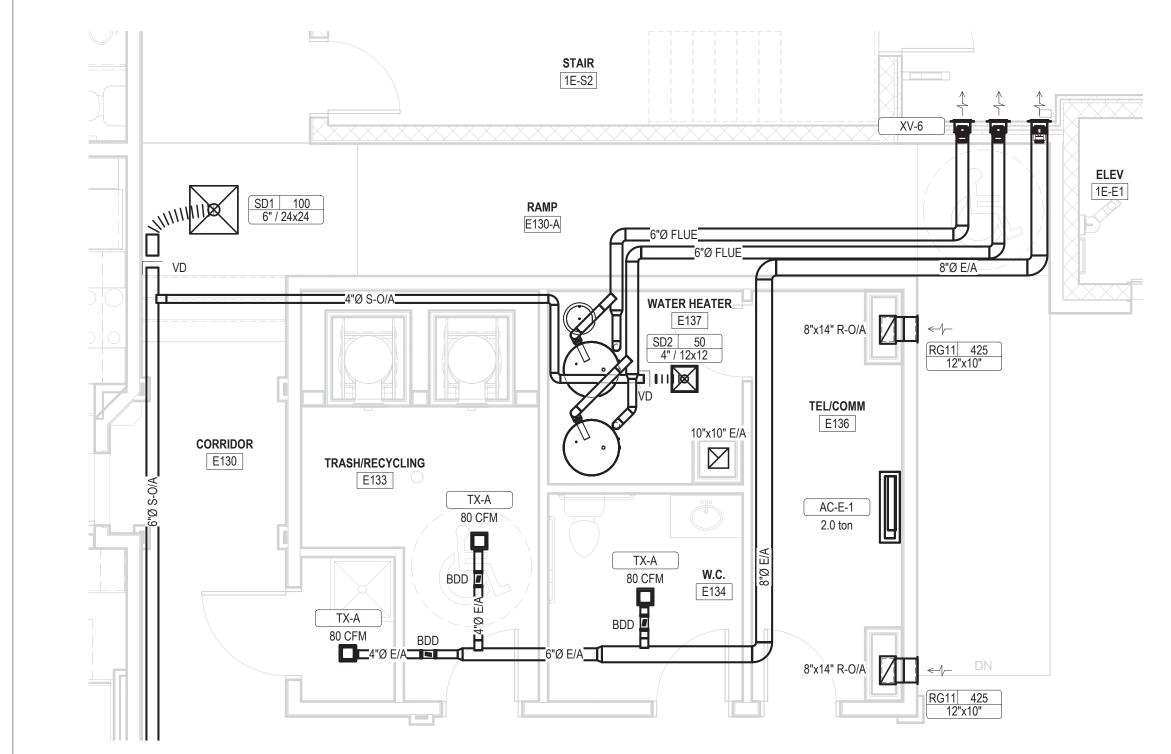
TRASH/RECYCLING

STOR.

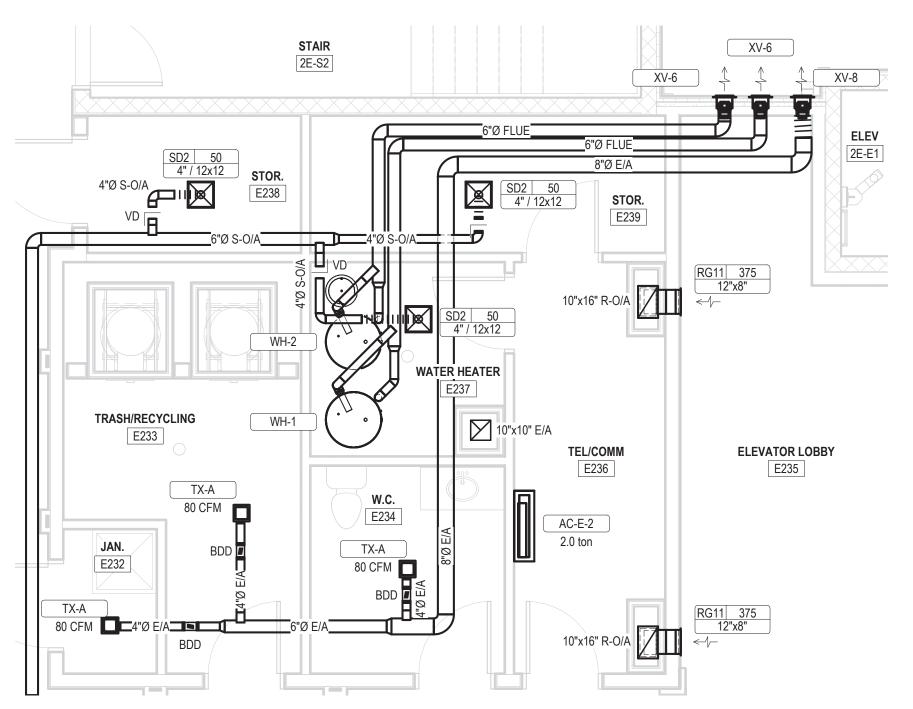
W238

22"x12" R-O/A

SD1 150 6" / 24x24



3 PARTIAL IL EAST LEVEL 1 MECHANICAL PLAN
M2.19 1/4" = 1'-0"



4 PARTIAL IL EAST LEVELS 2 THRU 4 MECHANICAL PLAN
1/4" = 1'-0"

ARCHITECT

FOOD SERVICE

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STRUCTURAL ENGINEER

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**MEPFP ENGINEER** LAN Associates

Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924 p. 201.447.6400

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SENIOR LIVING AT PURCHASE COLLEGE

- SENIOR LIVING AT OLLEGE - IL BUILDING

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LICENSE NUMBER: 090385
EXPIRATION DATE: 10/31/23

no. date revision BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - IL BUILDINGS

Project Number 4.1308.01

Date 4/30/2021

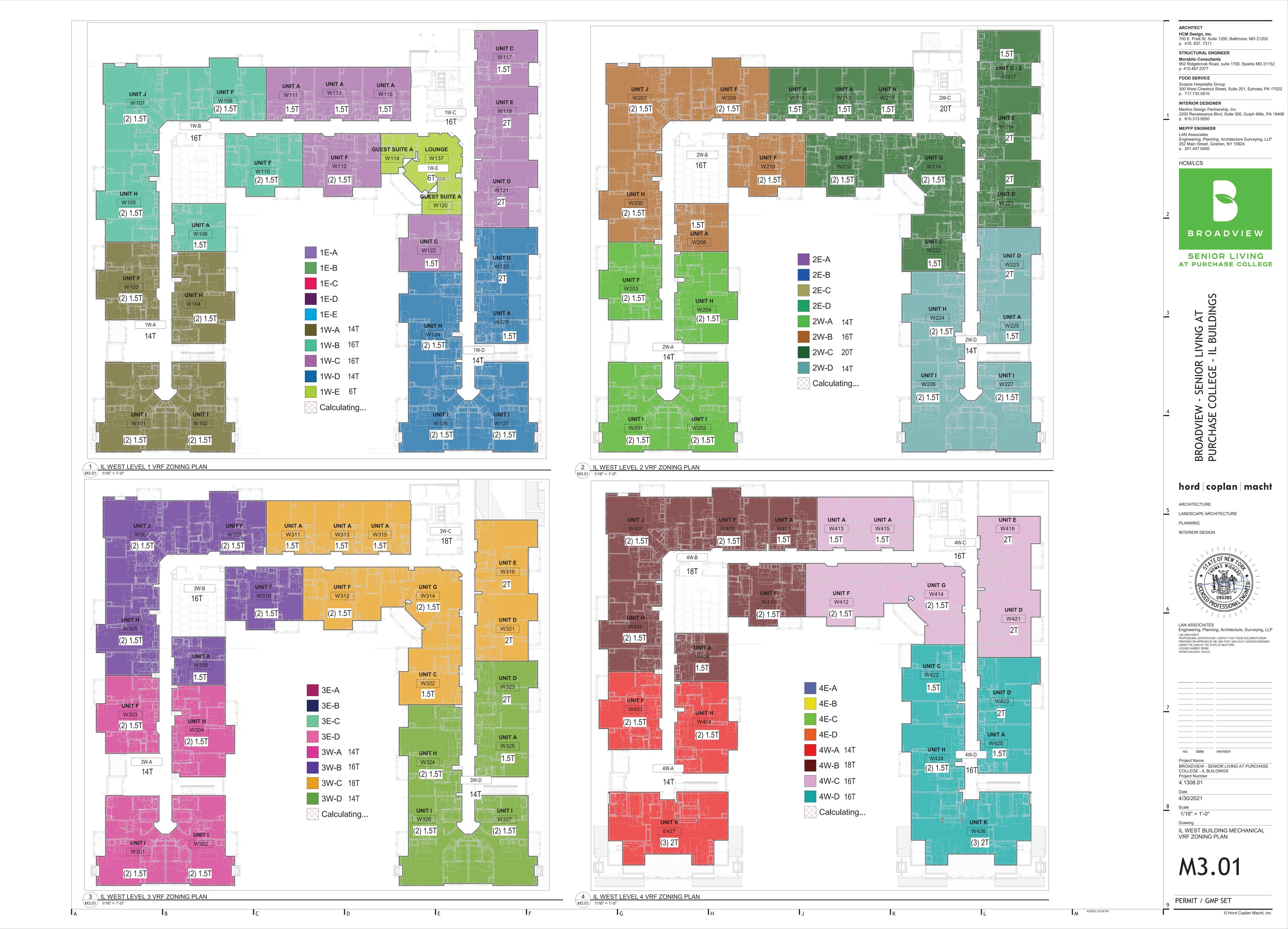
Scale 1/4" = 1'-0"

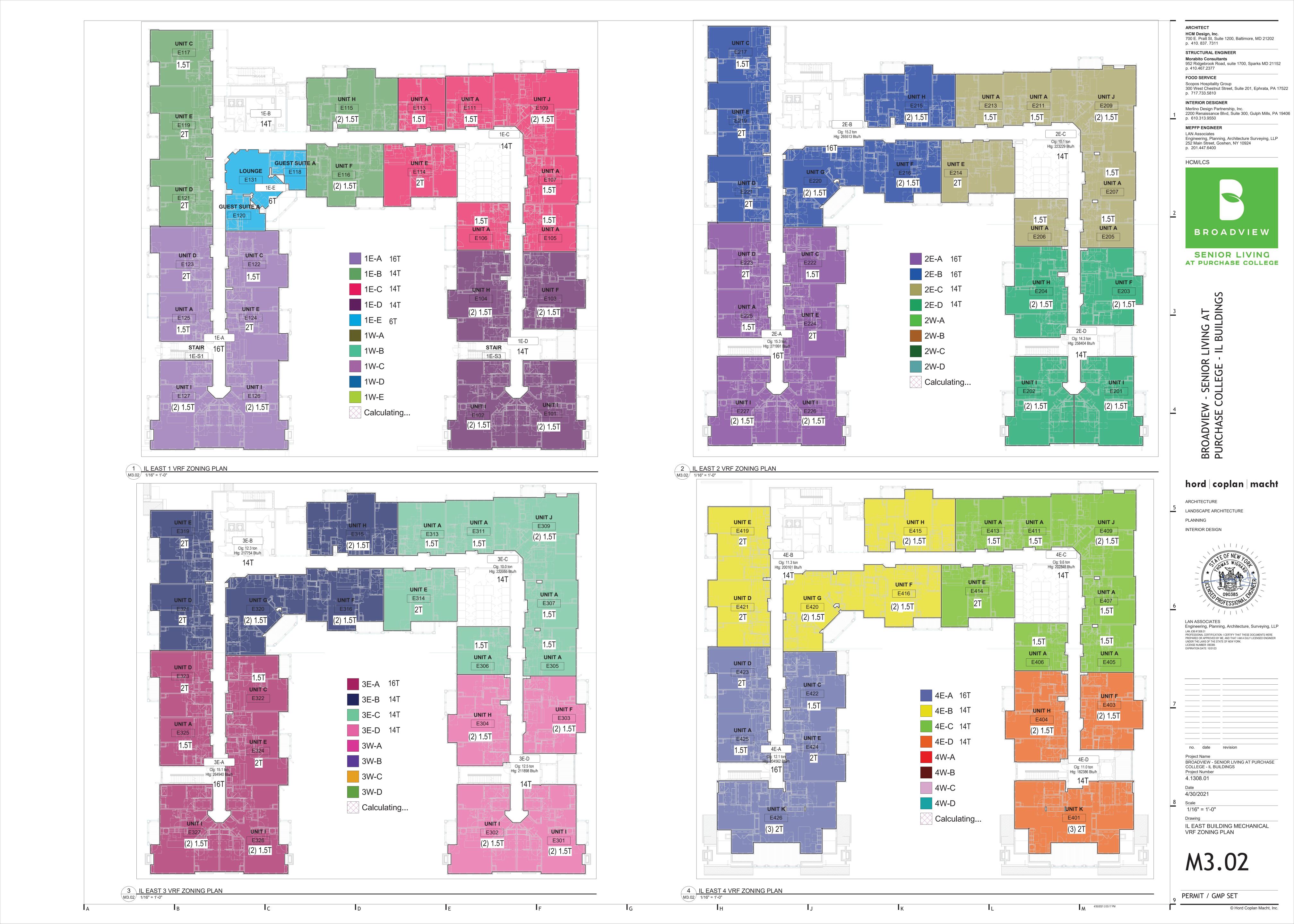
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### PACKAGED ROOFTOP GAS-FIRED HEATING & DX COOLING UNIT SCHEDULE

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				SUPPLY	MIN.		SUPPLY	FAN DAT			[	OX COOLIN	G				AS HEATING						ENERGY REC	OVERY WHEE	L		OMPRESSOR	COND.	FANS	POWER E	XHAUST FAN	EL	ECTRICA	AL DATA	EFFICIE	NCY	UNIT	APPROX. UNIT		
TAG NO.	AREA SERVED	MFGR.	MODEL No.	(CFM)	OUTDOOR AIR (CFM)	EXT S	P BHP	MHP	VED	COOLING	COOLING	EADB E	AWB LADE	B LAWB	INPUT C	OUTPUT (MBH)	EAT LAT	(°F) PR	IIN GAS	COOL EADB EAWB	.ING		HEATING	RECOVEREI COOLING (TMBH)	D RECOVERED HEATING (MBH)	ON O	D. RLA / LRA	NO	AMPS	NO N	HP VED	V/PH/F	17 N	MCA MO	P EE	·R	FILTER DIMENSIONS (L x W x H) (IN)	APPROX. UNIT WEIGHT (LBS)	REFRIGERANT TYPE	REMARKS
						(IN)	Di II	101111	VID	(TMBH)	(SMBH)	(°F)	(°F) (°F)	(')	(MBH)	(IVIBIT)	(°F)	(1)	LOCOTE	EADB EAWB	LADB LAWB	EADB E	EAWB LADB LAWB	(TMBH)	(MBH)	140	7. REXY EIGH	110.	7 tivii C	110.	THE VIE	V/1 11/1	12			.1 \	(L X VV X H) (IIV)			
RTU-E-1	IL EAST CORRIDORS	TRANE	OADG017C1- DAB10AG00	3,600	3,600	1	2.14	3.0	YES	209.9	125.2	82	69.2 50.5	50.1	250	200	47.1 98	.5 7" -	· 14" W.C.	95.0 78.0	82.1 69.2	10	8.6 47.1 42.6	124.14	216.51	2	(2) 27.6 / (2) 191	2	4.2	1	3.0 YES	208/3/6	30 8	89.6 110	18.8	8 M	MERV 13 219 x 95 x 68	4,180	R410A	SEE NOTES
RTU-E-2	IL EAST CORRIDORS	TRANE	OADG017C1- DAB10AG00	3,600	3,600	1	2.14	3.0	YES	209.9	125.2	82	69.2 50.5	50.1	250	200	47.1 98	.5 7" -	· 14" W.C.	95.0 78.0	82.1 69.2	10	8.6 47.1 42.6	124.14	216.51	2	(2) 27.6 / (2) 191	2	4.2	1	3.0 YES	208/3/6	60 8	89.6 110	18.8	8 M	MERV 13 219 x 95 x 68	4,180	R410A	SEE NOTES
RTU-W-1	IL WEST CORRIDORS	TRANE	OADG017C1- DAB10AG00	3,600	3,600	1	2.14	3.0	YES	209.9	125.2	82	69.2 50.5	50.1	250	200	47.1 98.	.5 7" -	· 14" W.C.	95.0 78.0	82.1 69.2	10	8.6 47.1 42.6	124.14	216.51	2	(2) 27.6 / (2) 191	2	4.2	1	3.0 YES	208/3/6	60 8	89.6 110	18.8	8 M	MERV 13 219 x 95 x 68	4,180	R410A	SEE NOTES
RTU-W-2	IL WEST CORRIDORS	TRANE	OADG017C1- DAB10AG00	3,600	3,600	1	2.14	3.0	YES	209.9	125.2	82	69.2 50.5	50.1	250	200	47.1 98	.5 7" -	· 14" W.C.	95.0 78.0	82.1 69.2	10	8.6 47.1 42.6	124.14	216.51	2	(2) 27.6 / (2) 191	2	4.2	1	3.0 YES	208/3/6	8 06	89.6 110	18.8	8 M	MERV 13 219 x 95 x 68	4,180	R410A	SEE NOTES

ALL UNITS SHALL BE PROVIDED W/ MODULATING GAS HEAT CONTROL. TURN DOWN RATIO IS 10:1 ALL MOTORS SHALL BE PREMIUM EFFICIENCY TYPE.

PROVIDE W/ CONDENSER FAN COIL HAIL GUARDS, NON-FUSED DISCONNECT SWITCH, FACTORY INSTALLED UV LIGHTS IN THE SUPPLY AIR STREAM, & GFI CONVENIENCE OUTLET FOR EACH UNIT.

ALL UNIT SHALL BE PROVIDED W/ SPRING VIBRATION ISOLATION ROOF CURBS. INTERNAL AUTOMATIC TEMPERATURE CONTROLS SHALL BE PROVIDE, MOUNT, AND WIRE ALL EXTERNAL COMPONENTS. ALL UNITS SHALL BE TIED INTO NEW BUILDING MANAGEMENT SYSTEM (BMS). REFER TO ATC DIAGRAMS AND SPECIFICATIONS. ALL UNITS SHALL BE PROVIDED WITH VARIABLE SPEED COMPRESSOR ON THE LEAD CIRCUIT.

ALL UNITS SHALL BE PROVIDED W/ DUAL ENTHALPY FULLY MODULATING POWER EXHAUST ECONOMIZER CONTROLS W/ STATI-TRAC BUILDING PRESSURIZATION, OUTDOOR AIR HOOD, EXHAUST DISCHARGE DAMPERS & HOOD.

ALL SHALL BE PROVIDED W/ FULLY MODULATING POWER EXHAUST ECONOMIZER FAN, ECONOMIZER HOOD & DAMPERS. ALL UNITS SHALL BE PROVIDED W/ 2" MERV 13 FILTERS & TWO (2) SETS OF SPARE FILTERS OF ALL TYPES. ELECTRICAL SUBCONTRACTOR TO PROVIDE DUCT SMOKE DETECTOR IN RETURN AIR DUCT MAIN FOR EACH UNIT. INTERLOCK RTUs WITH FIRE ALARM SYSTEM. RTUs SHALL BE SHUT DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM.

UNIT SHALL BE PROVIDED WITH SINGLE POINT POWER CONNECTION.

PROVIDE MODULATING HOT GAS REHEAT FOR ALL UNITS.

PROVIDE W/ A S.S. FLUE VENT EXTENSION FOR EACH UNIT. PROVIDE TWO-YEARS PART & LABOR WARRANTY FROM THE MANUFACTURER, 5 YEARS WARRANTY ON THE COMPRESSORS.

### ENIEDOV DECOVEDY VENITILATOD COLEDI II E

				INEKG	ΥK	(ECO)	VERY VENI	ILATUR SC	HED	ULE	•			
				_									(LIFEBREATH	AS STANDARD)
							ENERGY RECO	OVERY WHEEL	FAN	DATA		UNIT	ELECTRICAL	
UNIT No.	QTY	AREAS SERVED	MFG'R.	MODEL No.	SA	EXHAUST	SENSIBLE EFFICIENCY	TOTAL EFFICIENCY			APPROX. UNIT WT.	DIMENSIONS	LLLOTRICAL	REMARKS
UNIT NO.	QII	AREAS SERVED	WIFG K.	MODEL NO.	(CFM)	AIR (CFM)	AT	AT	EXT. S.P."	WATTS	(LBS)	(LxWxH) (IN.)	V/PH/HZ	KEIVIAKKS
						(3111)	32°F	90°F			()		V/1 11/112	
ERV-1	178	ALL UNITS	LIFEBREATH	120ERV-ECM	109	110	73%	52%	0.4	74	67	20-3/4 x 19-3/8 x 9-3/4	120/1/60	SEE NOTES

NOTES:
1. PROVIDE HINGED ACCESS DOORS, NON-FUSED DISCONNECT SWITCH, MOTORIZED DAMPERS.

2. ALL MOTORS SHALL BE PREMIUM EFFICIENCY TYPE. 3. THE UNIT SHALL HAVE HUMIDITY CONTROL.

4. THE UNIT SHALL HAVE A 99-DXPL02 WALL CONTROL. 5. THE UNIT SHALL HAVE A 99-EAG8 TECHGRILLE.

			TOILET EXHA	AUST F	FAN	SCHE	EDULE

					OILE		4051 F				(BRAUN AS STANDARD)
NIT No.	QTY	AREA SERVED	LOCATION	CFM S.P. LOSS (IN)	ELECTRI AMPS	CAL DATA V-PH-Hz	DIMENSIONS (LxWxH) (ln.)	OUTLET DUCT	UNIT WEIGHT (LBS)	MANUFACTURER & MODEL	REMARKS
TX-A	443	ALL UNITS	CEILING MTD	80 0.10	1.6	120/1/60	8 x 8-1/4 x 5-3/4	4"	15	BRAUN 761BN	SEE NOTES

NOTES: INLINE, CEILING MOUNTED FAN WITH LIGHT FIXTURE. USE AS BATHROOM EXHAUST. PROVIDE LEED CERTIFIED BACKDRAFT DAMPER, HANGING SUPPORTS WITH VIBRATION ISOLATORS, AND DISCONNECT SWITCH. PROVIDE SEPARATE WALL SWITCH IN SAME GANG BOX AS LIGHT SWITCH.

## OUTDOOR AIR-COOLED VRF HEAT RECOVERY CONDENSING UNIT SCHEDULE

				<u> </u>				•	•		•				( MITS	<del></del> <u>SUBISHI</u> AS STANDARD
TAG	LOCATION	ZONES SERVED	UNITS SERVED	COOLING (TMBH)	HEATING (TMBH)	AMBIENT TEMP (°F)	SUCTION TEMP (°F)	ELECTRICAL DATA V - Ph - Hz	MCA	МОР	EER	DIMENSIONS (H x W x D) (In.)	APPROX. WEIGHT (Lbs)	MODEL	MANUFACTERER	NOTES
CU-E-A1	EAST ROOF	ZONE A LEVEL 1 EAST	REFER TO DWG. M3.02	192	215	-13 / 126		460 - 3 - 60	30	40	11.3	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP192YNU-A	MITSUBISHI	SEE NOTES BELOV
CU-E-B1	EAST ROOF	ZONE B LEVEL 1 EAST	REFER TO DWG. M3.02	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELOV
CU-E-C1	EAST ROOF	ZONE C LEVEL 1 EAST	REFER TO DWG. M3.02	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELOV
CU-E-D1	EAST ROOF	ZONE D LEVEL 1 EAST	REFER TO DWG. M3.02	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELOV
CU-E-E1	EAST ROOF	ZONE E LEVEL 1 EAST	REFER TO DWG. M3.02	72	80	-13 / 126		460 - 3 - 60	10	30	13.4	71-5/8 x 36-1/4 x 29-5/32	552	PURY-EP72YNU-A	MITSUBISHI	SEE NOTES BELOV
CU-E-A2	EAST ROOF	ZONE A LEVEL 2 EAST	REFER TO DWG. M3.02	192	215	-13 / 126		460 - 3 - 60	30	40	11.3	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP192YNU-A	MITSUBISHI	SEE NOTES BELOV
CU-E-B2	EAST ROOF	ZONE B LEVEL 2 EAST	REFER TO DWG. M3.02	192	215	-13 / 126		460 - 3 - 60	30	40	11.3	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP192YNU-A	MITSUBISHI	SEE NOTES BELO
CU-E-C2	EAST ROOF	ZONE C LEVEL 2 EAST	REFER TO DWG. M3.02	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELOV
CU-E-D2	EAST ROOF	ZONE D LEVEL 2 EAST	REFER TO DWG. M3.02	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELO
CU-E-A3	EAST ROOF	ZONE A LEVEL 3 EAST	REFER TO DWG. M3.02	192	215	-13 / 126		460 - 3 - 60	30	40	11.3	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP192YNU-A	MITSUBISHI	SEE NOTES BELO
CU-E-B3	EAST ROOF	ZONE B LEVEL 3 EAST	REFER TO DWG. M3.02	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELO
CU-E-C3	EAST ROOF	ZONE C LEVEL 3 EAST	REFER TO DWG. M3.02	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELO
CU-E-D3	EAST ROOF	ZONE D LEVEL 3 EAST	REFER TO DWG. M3.02	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELO
CU-E-A4	EAST ROOF	ZONE A LEVEL 4 EAST	REFER TO DWG. M3.02	192	215	-13 / 126		460 - 3 - 60	30	40	11.3	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP192YNU-A	MITSUBISHI	SEE NOTES BELC
CU-E-B4	EAST ROOF	ZONE B LEVEL 4 EAST	REFER TO DWG. M3.02	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELO
CU-E-C4	EAST ROOF	ZONE C LEVEL 4 EAST	REFER TO DWG. M3.02	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELO
CU-E-D4	EAST ROOF	ZONE D LEVEL 4 EAST	REFER TO DWG. M3.02	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-A1	WEST ROOF	ZONE A LEVEL 1 WEST	REFER TO DWG. M3.01	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-B1	WEST ROOF	ZONE B LEVEL 1 WEST	REFER TO DWG. M3.01	192	215	-13 / 126		460 - 3 - 60	30	40	11.3	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP192YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-C1	WEST ROOF	ZONE C LEVEL 1 WEST	REFER TO DWG. M3.01	192	215	-13 / 126		460 - 3 - 60	30	40	11.3	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP192YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-D1	WEST ROOF	ZONE D LEVEL 1 WEST	REFER TO DWG. M3.01	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-E1	WEST ROOF	ZONE E LEVEL 1 WEST	REFER TO DWG. M3.01	72	80	-13 / 126		460 - 3 - 60	10	30	13.4	71-5/8 x 36-1/4 x 29-5/32	552	PURY-EP72YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-A2	WEST ROOF	ZONE A LEVEL 2 WEST	REFER TO DWG. M3.01	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-B2	WEST ROOF	ZONE B LEVEL 2 WEST	REFER TO DWG. M3.01	192	215	-13 / 126		460 - 3 - 60	30	40	11.3	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP192YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-C2	WEST ROOF	ZONE C LEVEL 2 WEST	REFER TO DWG. M3.01	240	250	-13 / 126		460 - 3 - 60	37	50	10.5	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP240YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-D2	WEST ROOF	ZONE D LEVEL 2 WEST	REFER TO DWG. M3.01	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-A3	WEST ROOF	ZONE A LEVEL 3 WEST	REFER TO DWG. M3.01	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-B3	WEST ROOF	ZONE B LEVEL 3 WEST	REFER TO DWG. M3.01	192	215	-13 / 126		460 - 3 - 60	30	40	11.3	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP192YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-C3	WEST ROOF	ZONE C LEVEL 3 WEST	REFER TO DWG. M3.01	216	243	-13 / 126		460 - 3 - 60	33	50	10.9	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP216YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-D3	WEST ROOF	ZONE D LEVEL 3 WEST	REFER TO DWG. M3.01	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-A4	WEST ROOF	ZONE A LEVEL 4 WEST	REFER TO DWG. M3.01	168	188	-13 / 126		460 - 3 - 60	26	40	11.2	71-5/8 x 68-29/32 x 29-5/32	807	PURY-EP168YNU-A	MITSUBISHI	SEE NOTES BELC
CU-W-B4	WEST ROOF	ZONE B LEVEL 4 WEST	REFER TO DWG. M3.01	216	243	-13 / 126		460 - 3 - 60	33	50	10.9	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP216YNU-A	MITSUBISHI	SEE NOTES BELO
CU-W-C4	WEST ROOF	ZONE C LEVEL 4 WEST	REFER TO DWG. M3.01	192	215	-13 / 126		460 - 3 - 60	30	40	11.3	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP192YNU-A	MITSUBISHI	SEE NOTES BELO
CU-W-D4	WEST ROOF	ZONE D LEVEL 4 WEST	REFER TO DWG. M3.01	192	215	-13 / 126		460 - 3 - 60	30	40	11.3	71-5/8 x 68-29/32 x 29-5/32	918	PURY-EP192YNU-A	MITSUBISHI	SEE NOTES BELO

### NOTES: PROVIDE WITH LOW AMBIENT CONTROL TO 0°F, PATE EQUIPMENT ROOF SUPPORT, INTERLOCK WITH ASSOCIATED AC UNITS.

NOTES: PROVIDE WITH LOW AMBIENT CONTROL TO 0°F, PATE EQUIPMENT ROOF SUPPORT, INTERLOCK WITH RESPECTIVE AIR CONDITIONING UNIT.

	STO	RAGE C		SETS	S OL	JTDC	OR	HEA <sup>-</sup>	ΓΕ	U	MF	) C	CONDENS	SING	UNIT SC	HEDU	ILE
																	( <u>MITSUBISHI</u> AS STANDARD)
TAG	LOCATION	UNIT SERVED	UNIT SERVED		HEATING (TMBH)	AMBIENT TEMP (°F)	SUCTION TEMP (°F)	ELECTRICAL DATA V - Ph - Hz	MCA	МОР	SEER	EER	DIMENSIONS (HxWxD) (IN.)	APPROX WEIGHT (Lbs)	MODEL	MFR	NOTES
CU-E-5	REFER TO PLANS	STORAGE CLOSETS	AC-S-E	96	108	126/-13	45	208 - 3 - 60	60	85	26.7	14.1	71 5/8 x 48 7/8 x 29 1/4	622	PUHY-EP96TNU-A-BS	MITSUBISHI	SEE NOTES BELOW
CU-W-5	REFER TO PLANS	STORAGE CLOSETS	AC-S-W	96	108	126/-13	45	208 - 3 - 60	60	85	26.7	14.1	71 5/8 x 48 7/8 x 29 1/4	622	PUHY-EP96TNU-A-BS	MITSUBISHI	SEE NOTES BELOW

							G	ARAC	GE EXH	AUS <sup>-</sup>	T FAN SO	CHEDULE	
													(GREENHECK AS STANDARD)
LINII	ΓNo. AREA SERVED	LOCATION	CFM	ESP. (IN)		ELECTR	RICAL DATA		DIMENSIONS	WEIGHT	MANUFACTURER	MODEL	REMARKS
OINI	I NO. AREA SERVED	LOCATION	CFIVI	ESF. (IIV)	BHP	MHP	RPM	V-PH-Hz	(LxHxD) (In.)	(LBS)	WANDFACTORER	MODEL	REMARKS
EF	E GARAGE IL EAST	GARAGE IL EAST WALL	22,000	0.5	5.7	7.5	1,750	208/3/60	44.25 x 44.25 x 23	197	GREENHECK	AER-E36C-316-A	WALL MOUNTED PROPELLER FAN. USE AS GARAGE EXHAUST. PROVIDE VFD, WALL COLLAR, BACKDRAFT DAMPER, MOTOR SIDE GUARD, WALL HOUSING, BIRDSCREEN AND
EF	W GARAGE IL WEST	GARAGE IL WEST	22,000	0.5	5.7	7.5	1,750	208/3/60	44.25 x 44.25 x 23	197	GREENHECK	AER-E36C-316-A	DISCONNECT SWITCH. INTERLOCK WITH WALL MOUNTED CO/NO2 SENSOR SYSTEM. ALL FANS SHALL RUN AT 10% DURING NORMAL OPERATION 24/7 AND INCREASE SPEED AS

					G	ARA	AGE	TRAS	SH ROO	MS E	XHAUS	T FAN SC	CHEDULE (GREENHECK AS STANDARD)
UNIT No.	AREA SERVED	LOCATION	CFM	ESP. (IN)	BHP	ELECTR MHP	RICAL DATA RPM	V-PH-Hz	DIMENSIONS (LxWxH) (In.)	WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
EF-T-E	TRASH/RECYC. EG102	EAST ROOF	500	0.5	0.08	1/10	1,587	115/1/60	17 x 17 x 27	29	GREENHECK	G-90-VG	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN. USE AS TRASH ROOM EXHAUST. PROVIDE VARI-GREEN CONTROLS, BACKDRAFT DAMPER, FIRE DAMPERS WITH ACCESS
EF-T-W	TRASH/RECYC. WG102	WEST ROOF	500	0.5	0.08	1/10	1,587	115/1/60	17 x 17 x 27	29	GREENHECK	G-90-VG	DOORS AT SLAB PENETRATIONS. 24 INCH HIGH CANTED ROOF CURB, INSECT SCREEN AND DISCONNECT SWITCH. FAN SHALL RUN 24/7.

### APARTMENTS INDOOR VRF AC DUCTED / HEAT RECOVERY TERMINAL UNIT SCHEDULE

																			(	WITSOBISHI AS STANDAND)
TAG	ROOM SERVED	QTY	LOW-HIGH (CFM)		COO	LING		HEATING TMBH	REFRIG TYPE	PIPE CC	NNECTION	ONS (In.)	ELECTRI	CAL DAT	A	DIMENSIONS (H x W x D)	APPROX. WEIGHT	MODEL	MANUFACTERER	NOTES
			(CI WI)	TMBH	EADB	EADB	EAWB	ווטווו	III	RS	RL	COND.	V - Ph - Hz	MCA	MOP	(ln.)	(Lbs)			
AHU-1	REFER TO PLANS	220	410-585	18	95	80	67	20	R-410A	1/2"	1/4"	3/4"	208 - 1 - 60	3	15	50-1/4 x 17 x 21-5/8	113	PVFY-P18NAMU-E1	MITSUBISHI	SEE NOTES BELOW
AHU-2	REFER TO PLANS	44	515-735	24	95	80	67	27	R-410A	5/8"	3/8"	3/4"	208 - 1 - 60	3	15	50-1/4 x 17 x 21-5/8	113	PVFY-P24NAMU-E1	MITSUBISHI	SEE NOTES BELOW

2. PROVIDE W/ WALL-MOUNTED REMOTE CONTROLLERS W/ OCCUPANCY SENSORS FOR AC UNITS IN ALL ROOMS 3. PROVIDE W/ PROPER REFRIGERANT CHARGE FOR ALL UNITS.

4. REFER TO DWG. FOR VRF SYSTEM & ASSOCIATED ACCUs. REFER TO SPEC. SECTION FOR ADDITIONAL INFORMATION. 5. INTERNAL AUTOMATIC TEMPERATURE CONTROLS SHALL BE PROVIDED BY ATC CONTRACTOR. THE ATC CONTRACTOR SHALL SHIP THE DDC CONTROLS FOR ALL UNITS TO THE UNIT MANUFACTURER FOR FACTORY MOUNTING. THE ATC CONTRACTOR SHALL PROVIDE, MOUNT AND WIRE ALL EXTERNAL COMPONENTS. ALL UNITS SHALL BE TIED INTO THE NEW BUILDING MANAGEMENT SYSTEM (BMS). REFER TO ATC DIAGRAMS AND SPECIFICATIONS.

# ELECTRICAL ROOMS SPLIT AIR-CONDITIONING UNIT SCHEDULE

													(MITOODIOTII AO OTANDAND)
TAG	LOCATION	COOLING (BTUH)	ESP INCH W.G.	ELECTRICAL DATA V - Ph - Hz	CFM HIGH / LOW	MCA	МОР	SEER	DIMENSIONS (LxDxH) (IN.)	APPROX. WEIGHT (Lbs)	MODEL	MANUFACTERER	NOTES
AC-E-1	EAST BLDG. LEVEL 1 ELEC. ROOM	24,000	0	208 - 1 - 60	775 / 570	0.6	15	17.3	51 x 18.5 x 14.25	46	PKA-A24KA7	MITSUBISHI	SEE NOTES BELOW
AC-E-2	EAST BLDG. LEVEL 2 ELEC. ROOM	24,000	0	208 - 1 - 60	775 / 570	0.6	15	17.3	51 x 18.5 x 14.25	46	PKA-A24KA7	MITSUBISHI	SEE NOTES BELOW
AC-E-3	EAST BLDG. LEVEL 3 ELEC. ROOM	24,000	0	208 - 1 - 60	775 / 570	0.6	15	17.3	51 x 18.5 x 14.25	46	PKA-A24KA7	MITSUBISHI	SEE NOTES BELOW
AC-E-4	EAST BLDG. LEVEL 4 ELEC. ROOM	24,000	0	208 - 1 - 60	775 / 570	0.6	15	17.3	51 x 18.5 x 14.25	46	PKA-A24KA7	MITSUBISHI	SEE NOTES BELOW
AC-W-1	WEST BLDG. LEVEL 1 ELEC. ROOM	24,000	0	208 - 1 - 60	775 / 570	0.6	15	17.3	51 x 18.5 x 14.25	46	PKA-A24KA7	MITSUBISHI	SEE NOTES BELOW
AC-W-2	WEST BLDG. LEVEL 2 ELEC. ROOM	24,000	0	208 - 1 - 60	775 / 570	0.6	15	17.3	51 x 18.5 x 14.25	46	PKA-A24KA7	MITSUBISHI	SEE NOTES BELOW
AC-W-3	WEST BLDG. LEVEL 3 ELEC. ROOM	24,000	0	208 - 1 - 60	775 / 570	0.6	15	17.3	51 x 18.5 x 14.25	46	PKA-A24KA7	MITSUBISHI	SEE NOTES BELOW
AC-W-4	WEST BLDG. LEVEL 4 ELEC. ROOM	24,000	0	208 - 1 - 60	775 / 570	0.6	15	17.3	51 x 18.5 x 14.25	46	PKA-A24KA7	MITSUBISHI	SEE NOTES BELOW

PROVIDE WALL MOUNTED THERMOSTAT WITH TAMPER PROOF ENCLOSURE, WALL MOUNTING BRACKET, PROPER REFRIGERANT CHARGE. INTERLOCK WITH RESPECTIVE CONDENSING UNIT. UNIT TO BE POWERED OFF THE OUTDOOR UNIT. PROVIDE WITH MINI CONDENSATE PUMP. PROVIDE WITH CONDENSATE DRAIN WATER-LEVEL DETECTOR SWITCH TO PREVENT ANY DAMAGE TO ANY BUILDING COMPONENT AS A RESULT OF OVERFLOW FROM THE EQUIPMENT PRIMARY DRAIN.

## ELECTRICAL ROOMS OUTDOOR AIR-COOLED CONDENSING UNIT SCHEDULE

TAG	LOCATION	UNIT SERVED	COOLING (TMBH)	AMBIENT TEMP (°F)	SUCTION TEMP (°F)	ELECTRICAL DATA V - Ph - Hz	MCA	МОР	SEER	EER	DIMENSIONS (HxWxD) (IN.)	APPROX. WEIGHT (Lbs)	MODEL	MFR	NOTES
CU-E-1	EAST BUILDING ROOF WELL	AC-E-1	24.0	95	45	208 - 1 - 60	19	25	17.3	10.2	37-5/16 x 37-7/16 x 14-5/8	151	PUY-A24NHA7-BS	MITSUBISHI	SEE NOTES BELOW
CU-E-2	EAST BUILDING ROOF WELL	AC-E-2	24.0	95	45	208 - 1 - 60	19	25	17.3	10.2	37-5/16 x 37-7/16 x 14-5/8	151	PUY-A24NHA7-BS	MITSUBISHI	SEE NOTES BELOW
CU-E-3	EAST BUILDING ROOF WELL	AC-E-3	24.0	95	45	208 - 1 - 60	19	25	17.3	10.2	37-5/16 x 37-7/16 x 14-5/8	151	PUY-A24NHA7-BS	MITSUBISHI	SEE NOTES BELOW
CU-E-4	EAST BUILDING ROOF WELL	AC-E-4	24.0	95	45	208 - 1 - 60	19	25	17.3	10.2	37-5/16 x 37-7/16 x 14-5/8	151	PUY-A24NHA7-BS	MITSUBISHI	SEE NOTES BELOW
CU-W-1	WEST BUILDING ROOF WELL	AC-W-1	24.0	95	45	208 - 1 - 60	19	25	17.3	10.2	37-5/16 x 37-7/16 x 14-5/8	151	PUY-A24NHA7-BS	MITSUBISHI	SEE NOTES BELOW
CU-W-2	WEST BUILDING ROOF WELL	AC-W-2	24.0	95	45	208 - 1 - 60	19	25	17.3	10.2	37-5/16 x 37-7/16 x 14-5/8	151	PUY-A24NHA7-BS	MITSUBISHI	SEE NOTES BELOW
CU-W-3	WEST BUILDING ROOF WELL	AC-W-3	24.0	95	45	208 - 1 - 60	19	25	17.3	10.2	37-5/16 x 37-7/16 x 14-5/8	151	PUY-A24NHA7-BS	MITSUBISHI	SEE NOTES BELOW
CU-W-4	WEST BUILDING ROOF WELL	AC-W-4	24.0	95	45	208 - 1 - 60	19	25	17.3	10.2	37-5/16 x 37-7/16 x 14-5/8	151	PUY-A24NHA7-BS	MITSUBISHI	SEE NOTES BELOW
NOTES: F	ROVIDE WITH LOW AMBIENT	CONTRO	DL TO 0°F, F	PATE EQUI	PMENT RO	OF SUPPORT	, INTE	RLOC	K WIT	H RES	PECTIVE AIR CONDITIO	NING UNIT	-		

### STORAGE CLOSETS INDOOR HEAT PUMP AIR HANDLING UNIT SCHEDULE

TAG	LOCATION	UNIT	COOLING (BTUH)	HEATING (BTUH)	ESP INCH W.G.	ELECTRICAL DATA V - Ph - Hz	CFM HIGH / LOW	MCA MC	OP SE	ĒR	DIMENSIONS (WxDxH) (IN.)	APPROX. WEIGHT (Lbs)	MODEL	MANUFACTERER	NOTES
AC-S-E1	EAST BLDG. LEVEL 1 STORAGE CLOSET	CU-E-5	24,000	28,000	0.6	208 - 1 - 60	740 / 475	2.6 1	5 16	.6 4	43-1/4 x 28-7/8 x 9-7/8	31	PEAD-A24AA7	MITSUBISHI	SEE NOTES BELOW
AC-S-E2	EAST BLDG. LEVEL 2 STORAGE CLOSET	CU-E-5	24,000	28,000	0.6	208 - 1 - 60	740 / 475	2.6 1	5 16	.6 4	43-1/4 x 28-7/8 x 9-7/8	31	PEAD-A24AA7	MITSUBISHI	SEE NOTES BELOW
AC-S-E3	EAST BLDG. LEVEL 3 STORAGE CLOSET	CU-E-5	24,000	28,000	0.6	208 - 1 - 60	740 / 475	2.6 1	5 16	.6 4	43-1/4 x 28-7/8 x 9-7/8	31	PEAD-A24AA7	MITSUBISHI	SEE NOTES BELOW
AC-S-E4	EAST BLDG. LEVEL 4 STORAGE CLOSET	CU-E-5	24,000	28,000	0.6	208 - 1 - 60	740 / 475	2.6 1	5 16	.6 4	43-1/4 x 28-7/8 x 9-7/8	31	PEAD-A24AA7	MITSUBISHI	SEE NOTES BELOW
AC-S-W1	WEST BLDG. LEVEL 1 STORAGE CLOSET	CU-W-5	24,000	28,000	0.6	208 - 1 - 60	740 / 475	2.6 1	5 16	.6 4	43-1/4 x 28-7/8 x 9-7/8	31	PEAD-A24AA7	MITSUBISHI	SEE NOTES BELOW
AC-S-W2	WEST BLDG. LEVEL 2 STORAGE CLOSET	CU-W-5	24,000	28,000	0.6	208 - 1 - 60	740 / 475	2.6 1	5 16	.6 4	43-1/4 x 28-7/8 x 9-7/8	31	PEAD-A24AA7	MITSUBISHI	SEE NOTES BELOW
AC-S-W3	WEST BLDG. LEVEL 3 STORAGE CLOSET	CU-W-5	24,000	28,000	0.6	208 - 1 - 60	740 / 475	2.6 1	5 16	.6 4	43-1/4 x 28-7/8 x 9-7/8	31	PEAD-A24AA7	MITSUBISHI	SEE NOTES BELOW
AC-S-W4	WEST BLDG. LEVEL 4 STORAGE CLOSET	CU-W-5	24,000	28,000	0.6	208 - 1 - 60	740 / 475	2.6 1	5 16	.6 4	43-1/4 x 28-7/8 x 9-7/8	31	PEAD-A24AA7	MITSUBISHI	SEE NOTES BELOW

CONDENSATE PUMP. PROVIDE WITH CONDENSATE DRAIN WATER-LEVEL DETECTOR SWITCH TO PREVENT ANY DAMAGE TO ANY BUILDING COMPONENT AS A RESULT OF OVERFLOW FROM THE EQUIPMENT PRIMARY

**ARCHITECT** HCM Design, Inc. 700 E. Pratt St, Suite 1200, Baltimore, MD 21202

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HCM/LCS

REQUIRED WITH THE CO/NO2 DETECTION SYSTEM. (TYP. FOR ALL FANS)

p. 201.447.6400



SENIOR LIVING AT PURCHASE COLLEGE

# hord coplan macht

ARCHITECTURE LANDSCAPE ARCHITECTURE

INTERIOR DESIGN

EXPIRATION DATE: 10/31/23



Engineering, Planning, Architecture, Surveying, LLF PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF NEW YORK. LICENSE NUMBER: 090385

BROADVIEW - SENIOR LIVING AT PURCHASE

**COLLEGE - IL BUILDINGS** Project Number 4.1308.01

1/8" = 1'-0"

MECHANICAL SCHEDULES

4/30/2021 1:59:59 PM

PERMIT / GMP SET

				VEN	TILA	TION	INDE	X		
ROOM NAME & NUMBER	UNIT SERVED	FLOOR AREA (Sq Ft)	MAX OCCUPANTS	REQUIRED OA CFM/SqFt	REQUIRED OA for SPACE	REQUIRED OA per PERSON	OA For OCCUPANTS	MIN OA REQUIRED	DESIGN OA (CFM)	REMARKS
GUEST SUITE A	DOAS-E/W	304	2	0.06	19	5	10	29	50	TYPICAL FOR ALL GUEST SUITES
UNIT A	ERV-1	640	2	0.06	39	5	10	49	130	TYPICAL FOR ALL UNIT A APARTMENTS
UNIT C	ERV-1	829	2	0.06	50	5	10	60	130	TYPICAL FOR ALL UNIT C APARTMENTS
UNIT C-2	ERV-1	829	2	0.06	50	5	10	60	130	TYPICAL FOR ALL UNIT C-2 APARTMENTS
UNIT D	ERV-1	964	2	0.06	58	5	10	68	130	TYPICAL FOR ALL UNIT D APARTMENTS
UNIT E	ERV-1	1,050	3	0.06	63	5	15	78	130	TYPICAL FOR ALL UNIT E APARTMENTS
UNIT F	ERV-1	1,116	3	0.06	67	5	15	82	130	TYPICAL FOR ALL UNIT F APARTMENTS
UNIT G	ERV-1	1,260	3	0.06	76	5	15	91	130	TYPICAL FOR ALL UNIT G APARTMENTS
UNIT H	ERV-1	1,277	3	0.06	77	5	15	92	130	TYPICAL FOR ALL UNIT H APARTMENTS
UNIT I	ERV-1	1,329	3	0.06	80	5	15	95	130	TYPICAL FOR ALL UNIT I APARTMENTS
UNIT J	ERV-1	1,591	3	0.06	96	5	15	111	130	TYPICAL FOR ALL UNIT J APARTMENTS
UNIT K	ERV-1	1,875	3	0.06	113	5	15	128	260	TYPICAL FOR ALL UNIT K APARTMENTS
RESIDENT STORAGE	DOAS-E/W	777	-	0.12	93	-	-	93	100	TYPICAL FOR ALL RESIDENT STORAGE AREAS
CORRIDOR	DOAS-E/W	3662	-	0.06	220	-	-	220	1550	TYPICAL FOR ALL CORRIDORS

	APAF	RTMENT	TS E	ELECTR	RIC C	ABINE	T HEATE	ER UI	NIT SC		E DM-PAK AS STANDARD
TAG	G LOCATION	TYPE	QTY.	HEATING	ELECT	RICAL DATA	DIMENSIONS (WxDxH) (In.)	APPROX WEIGHT	MODEL	MANUFACTERER	NOTES
1710	200/111011		ζ	(BTUH)	KW	V / Ph / Hz	(VVXDXIII)	(Lbs)		W. W. CO. P. CO. P. C. C.	
ECH-A	REFER TO PLANS	WALL RECESSED	421	3,415	1	208 / 1 / 60	9" x 4" x 12"	7	CS102TW-C	COM-PAK	SEE NOTES BELOW

		FII	RF PI	LACE PO	WFR VF	NT S	SCHEDU	l F	
			· <b>`</b> - · ·		***				(HEART & HOME AS STANDARD)
UNIT No.	LOCATION	QTY	UNIT SERVED	ELECTRICAL DATA V-PH-Hz	DIMENSIONS (LxHxD) (ln.)	WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
PV-1	UNITS F, & H	56	FP-1	120/1/60	15.5 x 14 x 19.625	25	HEART & HOME	PVLP-SLP	SEE NOTES
PV-2	UNITS I, K, AND LOUNGE	22	FP-1 & 2	120/1/60	14"Ø x 13.625	25	HEART & HOME	PVV-SLP	SEE NOTES

NOTES:

1. MODEL PVLP-SLP IS A LOW PROFILE SIDE WALL POWER VENT. INTERLOCK WITH ASSOCIATED FIREPLACE CONTROL PANEL. POWER VENT SHALL BE DUCTED/WIRED PER ALL MFR. GUIDELINES. PROVIDE WALL COLLAR, VENT CAP, & ALL REQUIRED OPTIONS/ACCESSORIES FOR A FULLY OPERABLE SYSTEM.

2. MODEL PVV-SLP IS A VERTICAL ROOFTOP POWER VENT. INTERLOCK WITH ASSOCIATED FIREPLACE CONTROL PANEL. POWER VENT SHALL BE DUCTED/WIRED PER ALL MFR. GUIDELINES. PROVIDE VENT TERMINATION CAP, STORM COLLAR, & ALL REQUIRED OPTIONS/ACCESSORIES FOR A FULLY OPERABLE SYSTEM.

		F	ROOF	F N	10L	JNT	ED STE	EAM	GEN	NERATOR	AND	DUCT	MOUN	ITED HU	<b>JMIDIFIE</b>	ER SCHE	DUL	Ε		
																				( <u>CONDAIR</u> AS STANDARD)
TAG	LOCATION	UNIT SERVED	CFM	EAT	EA RH	I LA RH	HUMIDIFIER CAPACITY		GAS	DATA		ELECTRICAL DA	ATA	DUCT DIMENSIONS	DISPERSION	DIMENSIONS	APPROX WEIGHT	MODEL	MANUFACTERER	REMARKS
TAG	LOCATION	ONIT SERVED	CI W	(°F)	(%)	(%)	(LB/HR)	INPUT (CFH)	VENT Ø (IN.)	MIN-MAX PRESSURE (IN.W.C.)	AMPS	POWER (KW)	V / Ph / Hz	(LxW) (ln.)	MODEL NO.	(LxWxH) (In.)	(Lbs)	WODLE	IVIANOI ACTENER	KLIVIANKO
SG-IL-E1	IL EAST BLDG. ROOF	RTU-E-1	3,600	72	3.13	40	100	140	3"	4.5-9			120 / 1 / 60	52"x26"	SAM-e 48"	49.7 x 21.5 x 54.3	556	GSTC-100	CONDAIR	GAS FIRED STEAM GENERATOR, SEE NOTES BELOW.
SG-IL-E2	IL EAST BLDG. ROOF	RTU-E-2	3,600	72	3.13	40	100	140	3"	4.5-9			120 / 1 / 60	52"x26"	SAM-e 48"	49.7 x 21.5 x 54.3	556	GSTC-100	CONDAIR	GAS FIRED STEAM GENERATOR, SEE NOTES BELOW.
SG-IL-W1	IL WEST BLDG. ROOF	RTU-W-1	3,600	72	3.13	40	100	140	3"	4.5-9			120 / 1 / 60	52"x26"	SAM-e 48"	49.7 x 21.5 x 54.3	556	GSTC-100	CONDAIR	GAS FIRED STEAM GENERATOR, SEE NOTES BELOW.

NOTES:
PROVIDE AIR PRESSURE SWITCH, DUCT MOUNTED ON/OFF HIGH LIMIT HUMIDSTAT, 2" COPPER STEAM PIPE WITH LONG RADIUS ELBOWS AND MIN. 2" MINERAL FIBER INSULATION WITH FACTORY APPLIED ASJ, WALL MOUNTED MODULATING HUMIDITY CONTROLLER WITH ELECTRONIC DISPLAY AND ADJUSTABLE BUTTONS, ADJUSTABLE RANGE FROM 10-90% RH, SELECTABLE OUTPUT SIGNALS, 2%-10% PROPORTIONAL BAND AND DRY CONTACT OUTPUT, MULTISTEAM, INTERNAL DRAIN COOLER, DUCT MOUNTED HUMIDITY SENSOR AND BACnet INTERFACE TO NEW BUILDING MANAGEMENT SYSTEM.

							GA	AS FIF	RED	TINU	HEATER	SCHE	DUL	≣	( <u>MODINE</u> AS STANDARD)
TAG LOCATION	QTY.	CFM	HEAT THROW	INPUT	G/ OUTPUT	AS HEATIN TEMP	VENT	MIN-MAX	HP	ELECTRIC DATA	DIMENSIONS (W x H x D)	APPROX WEIGHT	MODEL	MANUFACTERER	NOTES
200/11011	<b>Q</b>	0.111	(FT.)	(MBH)	(MBH)	RISE (°F)	PIPE Ø (IN.)	PRESSURE (IN.W.C.)		Volt-Ph-Hz	(In.)	(Lbs)	MODEL	WATERLER	116126
UH-A-E GARAGE EG-100	3	5,280	65	350	287	50	6"	7-14"	1/2	115 - 1 -60	42.5 x 35 x 39.5	310	PTP-350	MODINE	SEE NOTES BELOW
UH-A-W GARAGE WG-100	3	5,280	65	350	287	50	6"	7-14"	1/2	115 - 1 -60	42.5 x 35 x 39.5	310	PTP-350	MODINE	SEE NOTES BELOW

NOTES:
CEILING HUNG UNIT HEATER. PROVIDE ALL REQUIRED HANGERS, SUPPORTS. PROVIDE MIN. TWO STAGE HEATING, DIRECT SPARK IGNITION, 100% SHUT-OFF WITH CONTINOUS RETRY. INTERLOCK WITH SMOKE DETECTION SYSTEM, AND BMS.

			Е	ELEC	TRIC	UNIT	HEATEF	RSCH	EDU	LE	
											( <u>QMARK</u> AS STANDARD)
TAG	LOCATION	THERMOSTAT	QUANTITY		LECTRICAL	_ DATA	DIMENSIONS (LxWxH) (In.)	APPROX WEIGHT	MODEL	MANUFACTERER	NOTES
				AMPS	WATTS	V / Ph / Hz		(Lbs)			
EUH-A	GARAGE	WALL MOUNTED	8	14.5	3000	208 / 1 / 60	14 x 7-1/2 x 16	24	MUH0381	QMARK	SEE NOTE(S) BELOW
NOTES: 0	CEILING HUNG UN	NIT HEATER. PROVID	E HANGING	SUPPORTS	, DISCONNE	CT SWITCH, DOU	IBLE POLE LINE BRE	AK THERMOS	STAT W/ OFF	OPTION. COORDINA	ATE WITH G.C.

		ELE	ECT	RIC CA	BINE	T HEA	TER UN	IT SC	HEDU	JLE	( <u>BERKO</u> AS STANDARD)
TAG	LOCATION	TYPE	QTY.	HEATING	ELECT	RICAL DATA	DIMENSIONS (WxDxH) (In.)	APPROX WEIGHT	MODEL	MANUFACTERER	NOTES
				(BTUH)	KW	V / Ph / Hz		(Lbs)			
ECH-B	REFER TO PLANS	WALL RECESSED	4	6,142	1.8	120 / 1 / 60	15.75 " x 4" x 19.25"	25	FRC1812F	BERKO	SEE NOTES BELOW
ECH-S	ALL STAIRS	WALL RECESSED	24	10,235 / 5,120	3 / 1.5	208 / 1 / 60	15.75 " x 4" x 19.25"	25	FRC4024F	BERKO	SEE NOTES BELOW

(DI AGNA AID AG GTANDADD	HEDULE	VIII SCF	יוט מכ	ICATIO	URIF	AIR P			
(PLASMA AIR AS STANDARD									
NOTES	DIMENSIONS (LxWxH) (IN)	AMPS (mA)	MAX RATED CFM	QTY OF IONIZERS ON BAR	MODEL	MAKE	QTY	LOCATION	TAG
SEE NOTES BELOW	18 x 0.5 x 3.5	90	3,750	3	PB-018	PLASMA AIR	4	ALL DOAS UNITS	AP-1

NOTES:

1. BASIS OF DESIGN: PLASMA AIR.

2. AP SHALL BE FIELD INSTALLED AND WIRED TO THE EXISTING EQUIPMENT ON THE AIR INLET SIDE OF COOLING COIL. (A SEPARATE POWER FEED IS NOT

3. IF CONTRACTOR SUBSTITUTES BASIS OF DESIGN WITH ANOTHER MANUFACTURER, CONTRACTOR SHALL COORDINATE ALL ELECTRICAL & MECHANICAL CHANGES. 4. BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.

5. ALL MANUFACTURERS MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER UL OR ETL. 6. IONIZATION SYSTEM SHALL HAVE BEEN TESTED AND CERTIFIED BY UL 2998 AS AN OZONE FREE DEVICE.

ROOF

7. UNIT LENGTH SHALL BE SIZED TO MATCH COIL WIDTH (VIF). 8. ALL UNITS SHALL BE FACTORY MOUNTED ON ASSOCIATED RTUS. ACTUAL BARS NOT SHOWN ON PLANS.

ARCHITECT **HCM Design, Inc.** 700 E. Pratt St, Suite 1200, Baltimore, MD 21202 p. 410.837.7311 STRUCTURAL ENGINEER **Morabito Consultants** 

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p. 717.733.5810 INTERIOR DESIGNER Merlino Design Partnership, Inc. 2200 Renaissance Blvd, Suite 300, Gulph Mills, PA 19406

952 Ridgebrook Road, suite 1700, Sparks MD 21152

**MEPFP ENGINEER** LAN Associates

p. 610.313.9550

HCM/LCS

GAS FIRED STEAM GENERATOR,

SEE NOTES BELOW.

SAM-e 48" 49.7 x 21.5 x 54.3 556 GSTC-100 CONDAIR

Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924 p. 201.447.6400



SENIOR LIVING AT PURCHASE COLLEGE

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ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING INTERIOR DESIGN



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Project Number 4.1308.01

4/30/2021

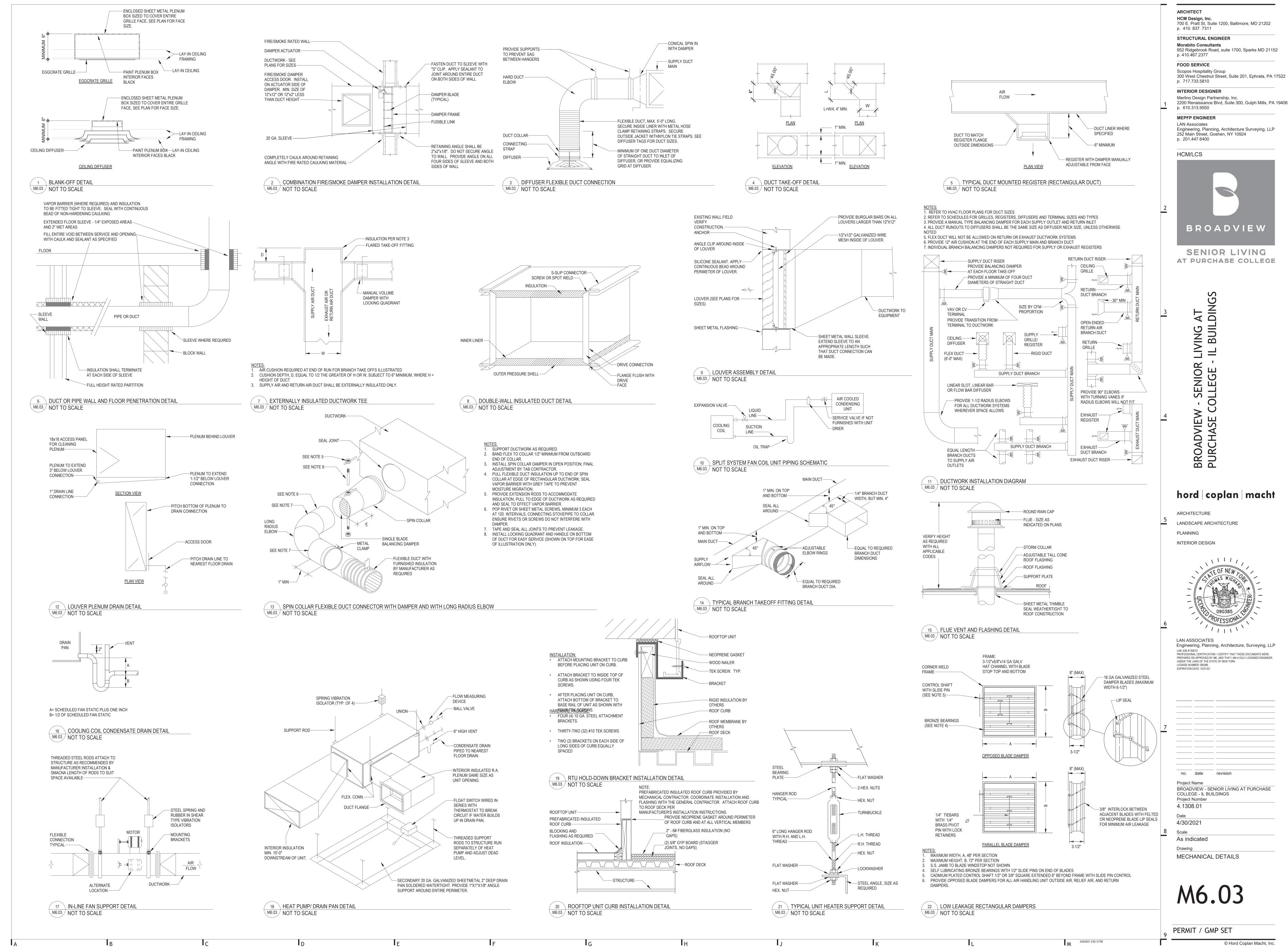
1/8" = 1'-0" MECHANICAL SCHEDULES

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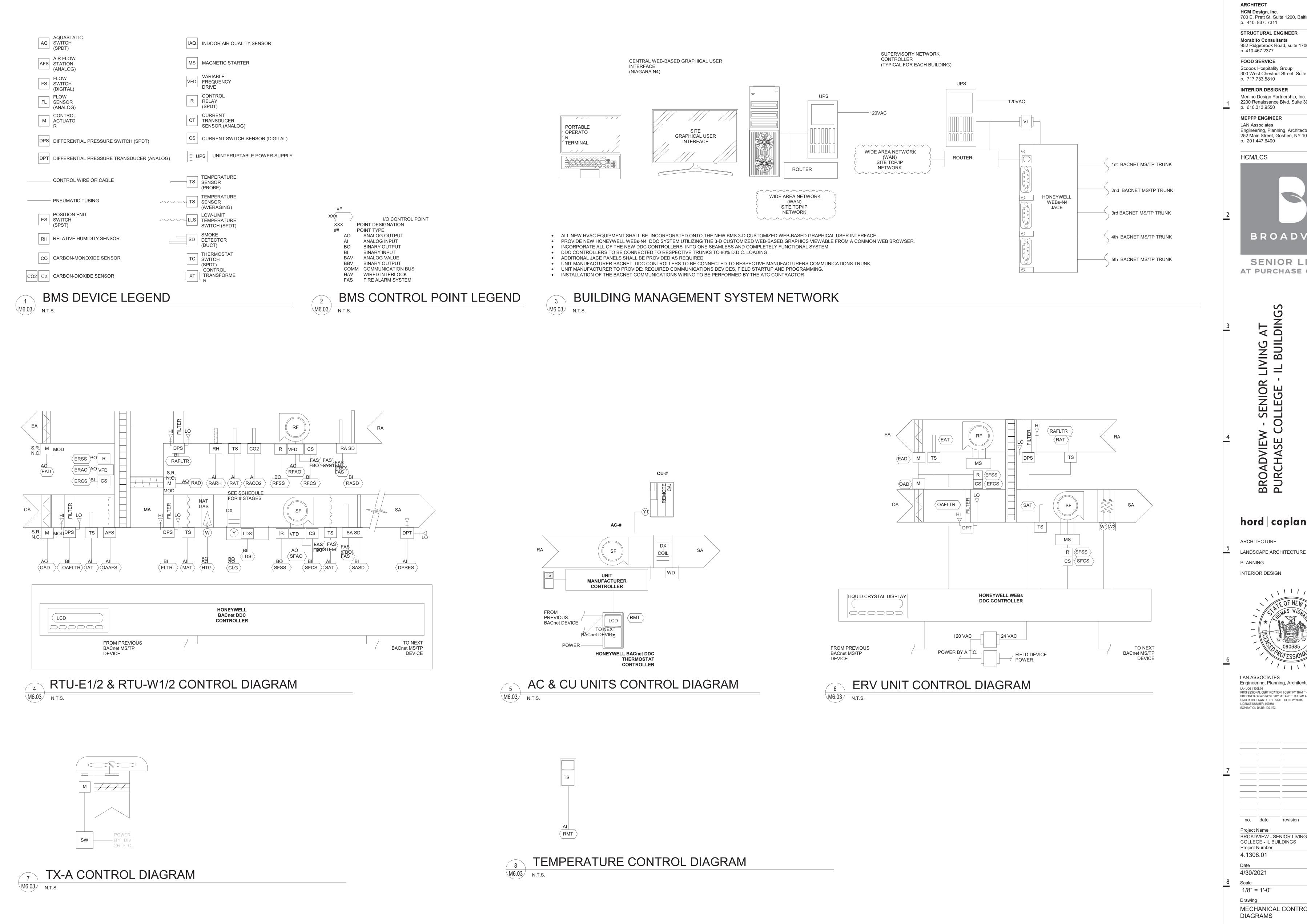


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BROADVIEW

SENIOR LIVING AT PURCHASE COLLEGE

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ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING

INTERIOR DESIGN



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no. date revision BROADVIEW - SENIOR LIVING AT PURCHASE

COLLEGE - IL BUILDINGS Project Number 4.1308.01

4/30/2021 Scale 1/8" = 1'-0"

MECHANICAL CONTROL DIAGRAMS

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