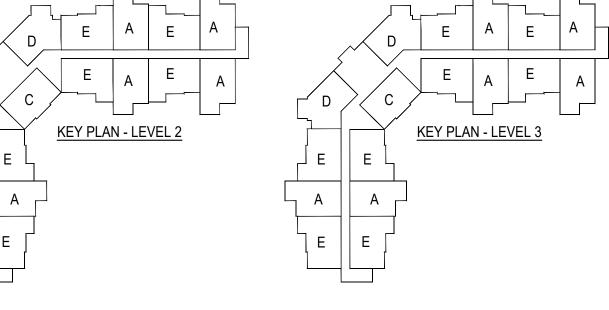
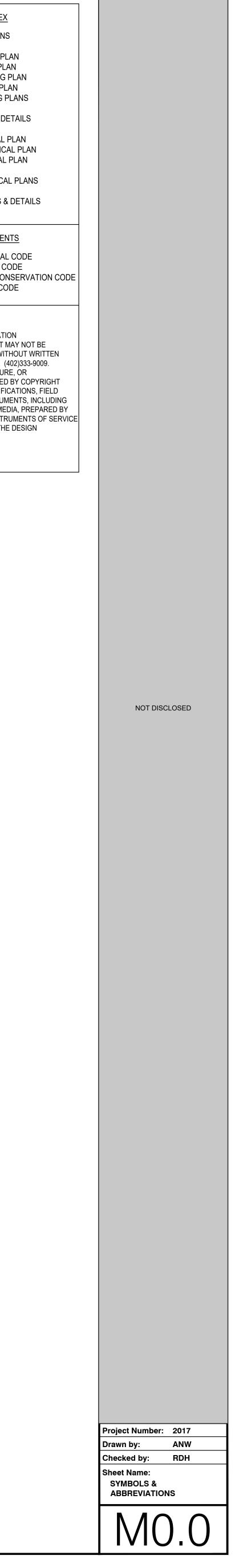
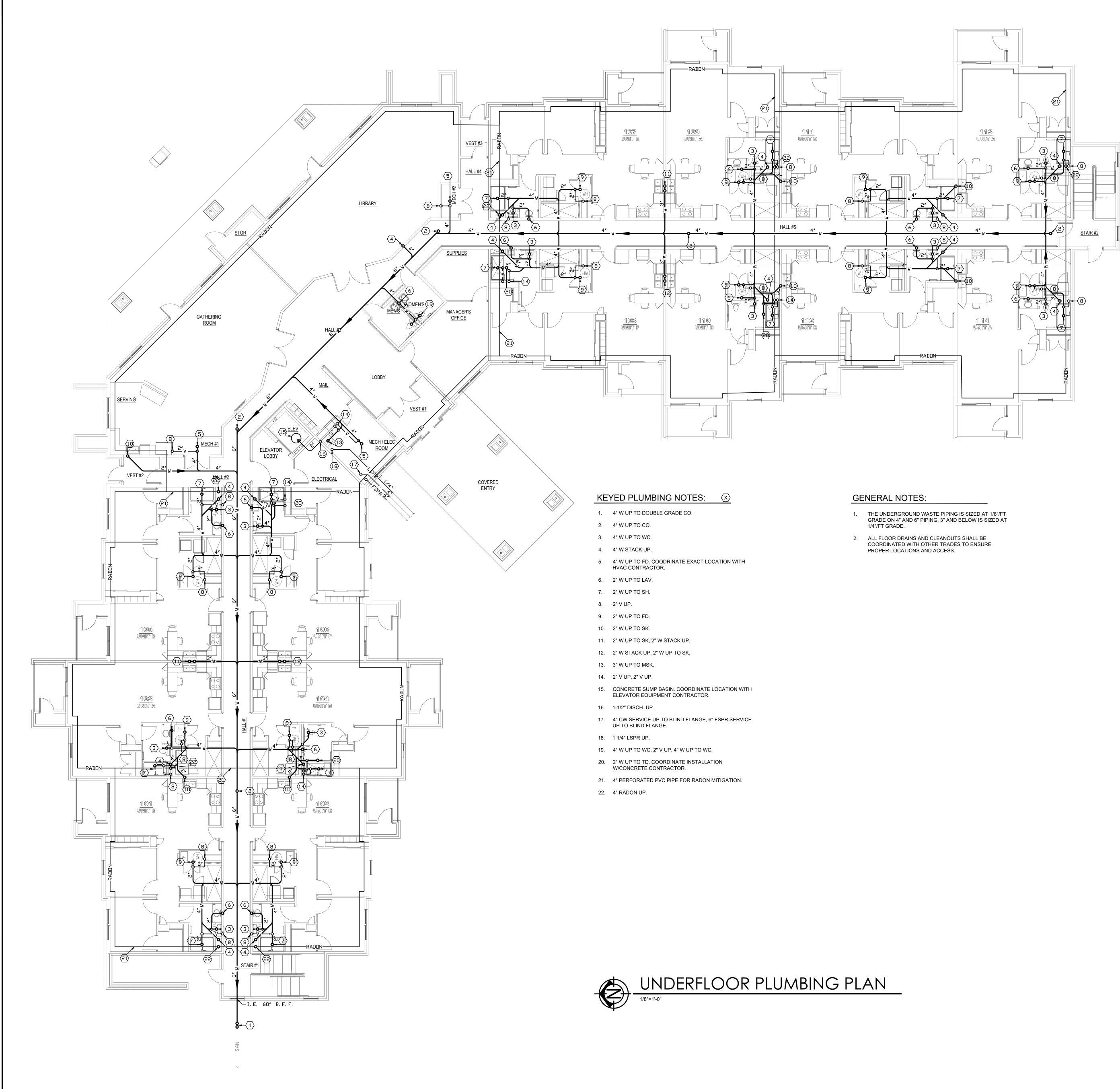
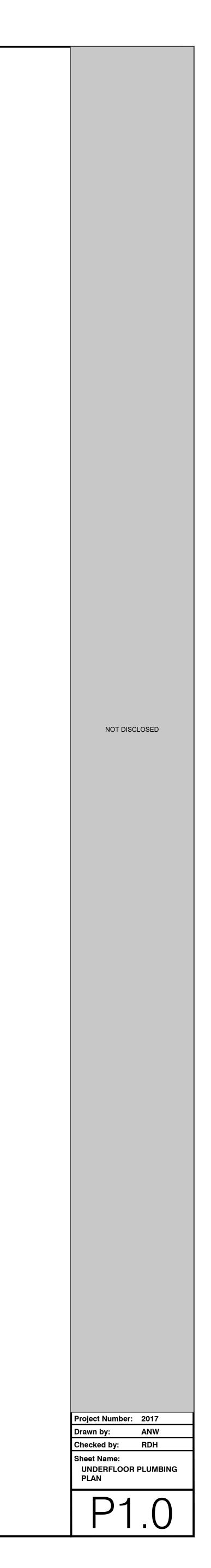
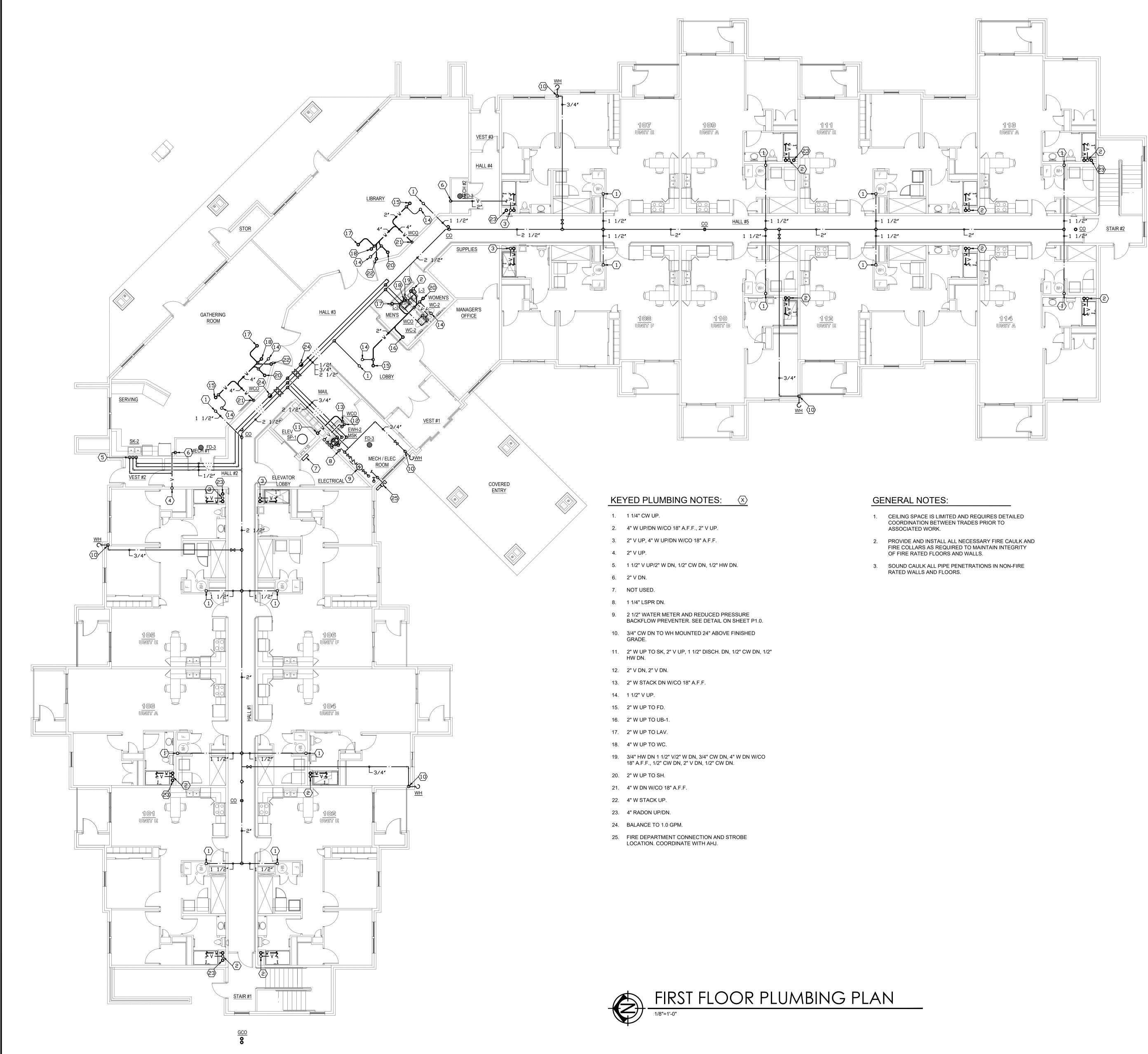
SYMBOL ABBREV	/. DESCRIPTION	SYMBOL & DESCRIPTION SY	MBOL DESCRIPTION			ABBREVIATIONS				DRAWING INDEX
CW	COLD WATER		SUPPLY/OUTSIDE AIR DUCT UP (S/A OR O/A) SUPPLY/OUTSIDE AIR ROOF/FLOOR PENETRAT	AF AIRFOIL TION AC-X AIR COMPRESSOR	DDVAV DUAL DUCT VARIABLE AIR VOLUME DC-X DUST COLLECTOR	HDPE H	IGH DENSITY POLYETHYLENE ORSE POWER	PVC	CONDITIONING POLYVINYL CHLORIDE	M0.0 SYMBOLS & ABBREVIATION
	HOT WATER RECIRCULATED HOT WATER		SUPPLY/OUTSIDE AIR DUCT DOWN (S/A OR O/A RETURN AIR DUCT UP (R/A)	A) A/C AIR CONDITIONING ACCU-X AIR COOLED CONDENSING UNIT		н-х н	OUR UMIDIFIER	PDU-X PIV	POOL DEHUMIDIFICATION UNIT POST INDICATOR VALVE	P1.0 UNDERFLOOR PLUMBING PL P1.1 FIRST FLOOR PLUMBING PL
A — A A AV	AIR ACID VENT	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	 RETURN AIR ROOF/FLOOR PENETRATION RETURN AIR DUCT DOWN (R/A) 	AHU-X AIR HANDLING UNIT AIR PD AIR PRESSURE DROP	ERAD-X ELECTRIC BASEBOARD RADIATOR EFT-X ELECTRIC FIN TUBE			PWR PF-X	POWER PRE FILTER	P1.2 SECOND FLOOR PLUMBING P1.3 THIRD FLOOR PLUMBING PL
AW AW CD	ACID WASTE CONDENSATE		EXHAUST AIR DUCT UP (E/A) EXHAUST AIR ROOF/FLOOR PENETRATION	AS-X AIR SEPARATOR ATU AIR TERMINAL UNIT AMB AMBIENT	ERH-X ELECTRIC RADIANT HEATER EUH-X ELECTRIC UNIT HEATER EL/ELEV ELEVATION	IH-X II	SIDE DIAMETER TAKE HOOD TERNAL STATIC PRESSURE	PHC-X PD P-X	PREHEAT COIL PRESSURE DROP PLUMBING FIXTURE	P1.4 TYPICAL ROOM PLUMBING F
CHR — CHR — CHR — CHS — CHS	CHILLED WATER RETURN CHILLED WATER SUPPLY		EXHAUST AIR DUCT DOWN (E/A)	ANSI AMERICAN NATIONAL STANDAR	DS INSTITUTE ERV-X ENERGY RECOVERY VENTILATOR		LOWATT	PRV-X P-X	PRESSURE REDUCING VALVE PUMP	P2.0 PLUMBING SCHEDULES & D
CWR CWR CWS CWS	CONDENSER WATER RETURN CONDENSER WATER SUPPLY	 BALANCE VALVE CHECK VALVE 	 S ROUND DUCT SECTION UP S ROUND DUCT ROOF/FLOOR PENETRATION 	REFRIGERATION AND AIR COND ENGINEERS	EQUIP EQUIPMENT	KES K	LOWATT HOUR TCHEN EQUIPMENT SUPPLIER	PROP	PROPELLER	M1.1 SECOND FLOOR MECHANICAL M1.2 THIRD FLOOR MECHANICAL
DI DI DI DI DI DS DS	DEIONIZED WATER DOWNSPOUT (RAINWATER)	5. CONTROL VALVE	S ROUND DUCT SECTION DOWN 1. WIDTH DIMENSION 2. DEPTH DIMENSION	AMP AMPERE ANG ANGLE	ECU-X EVAPORATIVE CONDENSING UNIT EVAP EVAPORATOR		TCHEN EXHAUST FAN	R-X RHC-X	REGISTER REHEAT COIL	M1.3 ROOF MECHANICAL PLAN M1.4 TYPICAL ROOM MECHANICA
	DUAL WATER RETURN DUAL WATER SUPPLY	7. THERMOMETER	2. DEPTH DIMENSION	A AREA AD-X AIR DOOR APPROX APPROXIMATE	EXH EXHAUST EA EXHAUST AIR EF-X EXHAUST FAN		TCHEN HOOD EAVING AIR TEMPERATURE	RLFA RV-X REQ'D	RELIEF AIR RELIEF VALVE REQUIRED	M2.0 MECHANICAL SCHEDULES 8
FORFOR FOSFOS	FUEL OIL RETURN FUEL OIL SUPPLY	9. MANUAL AIR VENT	DUCT DROP IN DIRECTION	AUX AUXILIARY ATM ATMOSPHERE	EH-X EXHAUST HOOD EXIST EXISTING	LWT L	EAVING AIR TEMPERATURE EAVING WATER TEMPERATURE ENGTH	RA RD	RETURN AIR ROOF DRAIN	
FOV FOV	FUEL OIL VENT	10. UNION 11. STRAINER W/DRAIN VALVE	2 2. WIDTH DIMENSION 3 3. DEPTH DIMENSION	AVG AVERAGE	ET-X EXPANSION TANK ESP EXTERNAL STATIC PRESSURE	LTG L	GHTING NEAR DIFFUSER	RF-X RPM	RETURN FAN REVOLUTIONS PER MINUTE RELATIVE HUMIDITY	CODE REQUIREMEN 2015 INTERNATIONAL MECHANICAL
— FSPR — FSPR — G — G	FIRE SPRINKLER NATURAL GAS LINE (FIRM)	12. TOP CONNECTION TEE W/ELBOW 13. BOTTOM CONNECTION TEE W/ELBOW	TYPICAL DUCT TURN	BI BACKWARD INCLINED BIBC BACKWARD INCLINED BACKWAR		LP L	NEAR FEET QUID PROPANE	RTU-X	ROOFTOP UNIT ROOM	2015 INTERNATIONAL MECHANICAL 2015 INTERNATIONAL PLUMBING C 2015 INTERNATIONAL ENERGY COI
GI — GI — GI — HG — HG	GREASE INTERCEPTOR HOT GAS			BODBOTTOM OF DUCTBOJBOTTOM OF JOIST	FCU-X FAN COIL UNIT FPB-X FAN POWERED BOX	L-X L	DCKED ROTOR AMPS DUVER	SCHED SEN	SCHEDULE SENSOR	2015 INTERNATIONAL BUILDING CO
HPR HPR HPR HPR HPS	HIGH PRESSURE STEAM RETURN HIGH PRESSURE STEAM SUPPLY	16. FLOW METER FITTING 17. PIPE ANCHOR	TYPICAL DUCT TURN WITH	B-XBOILERBHPBREAK HORSE POWERBTUBRITISH THERMAL UNIT	FTFEETFPMFEET PER MINUTEFPSFEET PER SECOND	LPS L	OW PRESSURE CONDENSATE OW PRESSURE STEAM OUNDS	SIM SWSI	SIMILAR SINGLE WHEEL SINGLE INLET	NOTICE
HWR HWR HWR	HEATING WATER RETURN HEATING WATER SUPPLY	18. BALANCE VALVE W/FLOW METER FITTING	<-→ 1. CONICAL TAKE-OFF	BLDG BUILDING	FT-X FIN TUBE FF-X FINAL FILTER		000 BTU'S	SA-X SD SPEC(S)	SOUND ATTENUATOR STORM DRAIN PIPING SPECIFICATIONS	THIS DOCUMENT AND ANY INFORMAT CONTAINED WITHIN THIS DOCUMENT
IG IG IG IG LPG LPG	NATURAL GAS LINE (INTERRUPTIBLE) LIQUIFIED PETROLEUM GAS	20. PIPE CAP, PLUG OR CLEANOUT 21. FLOAT AND THERMOSTATIC TRAP	2. BRANCH DUCT INTO SIDE OF MAIN DUCT	CUH-X CABINET UNIT HEATER	FLT-X FLASH TANK FLR FLOOR	MAX N	ANUFACTURER AXIMUM	SQ STD	SQUARE STANDARD	REPRODUCED IN PART OR WHOLE WI PERMISSION OF RDH ENGINEERING, UNAUTHORIZED COPYING, DISCLOSU
— LPR — LPR — LPS — LPS	LOW PRESSURE STEAM RETURN LOW PRESSURE STEAM SUPPLY	22. PRESSURE AND TEMPERATURE TEST PORT	TYPICAL SQUARE TO ROUND TRANSITION	C TO C CENTER TO CENTER CL CENTER LINE	FC-XFAN COILFCFORWARD CURVED	MA N	AXIMUM CIRCUIT AMPACITY AKE-UP AIR	SUCT SP	SUCTION STATIC PRESSURE SUPPLY AIR	CONSTRUCTION USE ARE PROHIBITED LAWS. ALL REPORTS, PLANS, SPECIF
LSPR LSPR MPR MPR	LAWN SPRINKLER MEDIUM PRESSURE STEAM RETURN	24. EXPANSION JOINT 25. FLEX CONNECTOR	FLEXIBLE DUCT CONNECTION (CANVAS) 1. MOTORIZED DAMPER	CENT CENTRIFUGAL CF-X CHEMICAL FEED SYSTEM CHR CHILLED WATER RETURN	FA FREE AREA / FIRE ALARM FOT-X FUEL OIL TANK	MECH N	AKE-UP AIR UNIT ECHANICAL ECHANICAL CONTRACTOR	SF-X	SUPPLY FAN	DATA, AND NOTES AND OTHER DOCU ALL DOCUMENTS ON ELECTRONIC ME THE DESIGN PROFESSIONAL AS INST
MPS MPS MPS	MEDIUM PRESSURE STEAM SUPPLY NON POTABLE COLD WATER	26. PRESSURE AND TEMPERATURE RELIEF VALVE	2. FIRE DAMPER 2. 3. 3. SMOKE DAMPER	CHS CHILLED WATER RETORN CHS CHILLED WATER SUPPLY CH-X CHILLER	FLA FULL LOAD AMPS F-X FURNACE	MPC N	EDIUM PRESSURE CONDENSATE EDIUM PRESSURE STEAM	TEMP TD	TEMPERATURE TEMPERATURE DIFFERENCE TERMINAL UNIT	SHALL REMAIN THE PROPERTY OF TH PROFESSIONAL.
- NP · - NPHW	NON POTABLE HOT WATER	27. THREE WAY CONTROL VALVE 28. CONTINUATION SYMBOL	1. BACKDRAFT DAMPER 2. STATIC PRESSURE SENSOR	CPVC CHLORINATED POLYVINYL CHLO	ORIDE GAL GALLONS GPM GALLONS PER MINUTE	MIN N	INIMUM ISCELLANEOUS	TU-X TUR T-STAT	TERMINAL UNIT TERMINAL UNIT REHEAT THERMOSTAT	
− NP·· − NPRHW − 0 − 0 0	V NON POTABLE RECIRCULATED HOT WATER OXYGEN	29. PIPE DOWN 1. 30. PIPE UP	2. [S] 3. 3. FIRE/SMORE DAMPER	CO CLEANOUT CMPR COMPRESSOR	GALV GALVANIZED G GAS	MV-X M MTD M	IXING VALVE OUNTED	TK TONS	THICK 12000 BTU	
ORD ORD ORD RL RL	OVERFLOW DRAIN REFRIGERANT LIQUID	SPLASH BLOCK	E	CRAC-X COMPUTER ROOM AIR CONDITIE	GA GAUGE		OUNTING	TSP TYP	TOTAL STATIC PRESSURE TYPICAL	
−−− RS −−− RS −−− S · −−− SCW	REFRIGERANT SUCTION SOFT COLD WATER	CONNECTION TO EXISTING		CP-X CONDENSATE PUMP CDU CONDENSER UNIT CU-X CONDENSING UNIT	GC GENERAL CONTRACTOR GEN GENERATOR GH-X GRAVITY HOOD	NC N	OMINAL ORMALLY CLOSED / NOISE CRITERIA ORMALLY OPEN / NUMBER	UL UH-X	UNDERWRITERS LABORATORY UNIT HEATER UNIT VENTILATOR	
→ S · · · → SHW → S · · · → SRHW	SOFT HOT WATER SOFT RECIRCULATED HOT WATER	POINT OF DISCONNECT O CO CO		CUHP-X CONDENSING UNIT HEAT PUMP	G-X GRILLE	N/A N	OT APPLICABLE OT IN CONTRACT	UNO	UNLESS NOTED OTHERWISE	
SD SD SD TW TW	STORM DRAIN TEMPERED WATER		G-X X"/X" CFM XXX RETURN GRILLE TAG	CCC-X CLOSED CIRCUIT COOLER (FLU CC-X COOLING COIL			EUTRAL AIR	VAR VAV	VARIABLE VARIABLE AIR VOLUME VARIABLE FREQUENCY DRIVE	
V — V V VAC	VENT VACUUM	Ø FD FLOOR DRAIN ① Ø FS FLOOR SINK ⑦	THERMOSTAT	CT-X COOLING TOWER CU FT CUBIC FEET	HE-X HEAT EXCHANGER HP-X HEAT PUMP		UTSIDE AIR N CENTER	VFD-X VERT V	VARIABLE FREQUENCY DRIVE VERTICAL VOLT	
w w w	WASTE ABOVE GRADE WASTE BELOW FLOOR	→ HB HOSE BIBB	VTHERMOSTAT W/LOCKING COVERVNNNIGHT THERMOSTAT	CFM CUBIC FEET PER MINUTE CU IN CUBIC INCH	HPWR HEAT PUMP WATER RETURN HPWS HEAT PUMP WATER SUPPLY		VERFLOW STORM DRAIN PIPING VERFLOW ROOF DRAIN	VOL	VOLUME WATER GAUGE	
	WASTE BELOW GRADE	$ \begin{array}{c c} & & WCO & WALL CLEANOUT \\ \hline & & FCO & FLOOR CLEANOUT \\ \end{array} $	P A RECESSED STAT (ASPIRATING) P HUMIDISTAT	DEG DEGREE DP DEPTH / DEEP	HTR HEATER HTG HEATING HC-X HEATING COIL		ACKAGED TERMINAL A/C ACKAGED TERMINAL HEAT PUMP	WPD W	WATER GAUGE WATER PRESSURE DROP WATT / WIDTH	
		DCO DOUBLE CLEANOUT (\$ X)	OCCUPIED-UNOCCUP. SWITCH KEYED NOTES	DIA DIAMETER D-X DIFFUSER	HVAC HEATING, VENTILATING AND AIR CONDITIONING	PPM P	ARTS PER MILLION ERPENDICULAR	WT WB	WEIGHT WET BULB TEMPERATURE	
		TD TRENCH DRAIN		DX DIRECT EXPANSION DISC DISCONNECT	HWR HEATING WATER RETURN	PH P PLBG P	HASE _UMBING	YD	YARD	
		O RD ROOF DRAIN	REVISION NOTE NUMBER	DWG DRAWING DB DRY BULB (Temperature)	HWS HEATING WATER SUPPLY HGT HEIGHT		LUMBING CONTRACTOR LUMBING, HEATING, VENTILATION AND A			
GENERAL NOTES:		THICKNESS SHALL BE 4". PAD SHALL EXTEND BEYOND THI A MINIMUM OF 4" ON EACH SIDE. IT SHALL BE THE RESPON	· · · · · · · · · · · · · · · · · · ·		FOR INSTALLATION OF NEW HVAC SYSTEMS, WITH THE OWNER'S REPRESENTATIVE PRIOR TO SHUTDOWN.	<u>GENERAL PLUN</u>	IBING NOTES:		WHERE APPROPRIATE ALL OF THE PLUI DRAWINGS. DETAILS MAY OR MAY NOT E	
	CTOR IS RESPONSIBLE FOR ANY CUTTING AND R MECHANICAL INSTALLATION. PATCHING MUST	THE MC TO COORDINATE SIZE AND LOCATION OF CONCRE HOUSEKEEPING PADS.	TE 1. DO NOT RUN DUCTWORK REQUIRED CLEARANCE S	ABOVE ELECTRICAL PANELS OR IN CODE SPACES. COORDINATE ALL ROUTING WORK 19	9. LOCATE ALL MECHANICAL EQUIPMENT (HEAT PUMPS, MAKE-UP AIR	CONSTRUCT A	ALL LABOR, MATERIALS AND EQUIPMENT NECE COMPLETE OPERATIONAL PLUMBING SYSTEM FO	OR THE ENTIRE	WITH SYMBOLS OR KEYED NOTES. ANY TO INSTALL THE PLUMBING SYSTEM WIT	CHANGES RESULTING FROM FAILURE HOUT USING THE INCLUDED DETAILS
	REQUIRED FOR ALL VALVES, TRAPS, DAMPERS,	15. WHEN MECHANICAL WORK (HVAC, SHEET METAL, FIRE PR ETC.) IS SUBCONTRACTED. IT SHALL BE THE MC'S RESPON		ORDINATE LOCATION OF DUCTWORK IN	UNITS, ETC.) FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS CONTROLS AND VALVING, AS REQUIRED BY MANUFACTURER'S	, PROJECT AS SI AND PERMITS.	IOWN ON THESE DRAWINGS, INCLUDING ALL NE	CESSARY FEES		
CONTROLS, ETC., IN HA	ARD SURFACE CEILINGS. ACCESS PANELS SHALL AND INSTALLED BY THE MC. COORDINATE EXACT	COORDINATE SUBCONTRACTED, IT SHALL BE THE MC'S RESPOR COORDINATE SUBCONTRACTORS AND THE ASSOCIATED (WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CON	CONTRACTS. CEILING SPACE WITH ALI	L TRADES PRIOR TO FABRICATION AND	INSTALLATION AND OPERATION REQUIREMENTS AND/OR BY CODE.		IRE INSTALLATION SHALL CONFORM TO THE MO JIREMENTS OF THE INTERNATIONAL MECHANICA		9. THE DRAWINGS AND SPECIFICATI SUPPLEMENT EACH OTHER AND SHALL I UNIT WITH THE ITEMS SHOWN ON ONE A	BE INTERPRETED AS AN INTEGRAL
LOCATIONS WITH ARCH		PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CON WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FO	TRACT OR	RK CONSTRUCTION, SEE DETAILS IN DRAWING	DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION	INTERNATIONA	PLUMBING CODE, AND ALL OTHER APPLICABLE DES AND REGULATIONS IN EFFECT AT THE DATE	CITY, COUNTY	FURNISHED AND INSTALLED AS THOUGH	
REQUIRED TO INSTALL	LS AND EQUIPMENT AND PERFORM ALL LABOR COMPLETE AND OPERABLE MECHANICAL	PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SH BROUGHT TO THE ATTENTION OF THE MC, WHOSE DECISI	ON SHALL BE		REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENT FOR THESE ITEMS.	3. PRIOR T	D FABRICATION AND INSTALLATION THE CONTRA		TO A PORTION OR ANY PORTION OF THE	
REQUIRED BY CODE.	D ON THE DRAWINGS, AS SPECIFIED AND AS	FINAL.	CONFLICTS HAVE BEEN F	BE FABRICATED UNTIL ALL COORDINATION RESOLVED. 2	1. ALL MAKE-UP AIR UNITS SHALL OPERATE WITHOUT MOISTURE CARRYOVER.	EQUIPMENT WI	HE INSTALLATION OF ALL PLUMBING PIPING, DU(TH PLUMBING PIPING, PLUMBING EQUIPMENT, AL R TRADES INCLUDING BUT NOT LIMITED TO THE I	L DUCTWORK,	REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.	DRAWINGS AND STRUCTURAL
	T DRAWINGS FOR MECHANICAL WORK (HVAC AND MATIC AND ARE INTENDED TO CONVEY SCOPE	FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY F DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCAT	IXED BY 5. CAP ENDS OF ALL INSTA	LLED DUCTWORK DURING CONSTRUCTION TO AND FOREIGN OBJECTS FROM ENTERING THE 2	2. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH	CONTRACTOR,	ELECTRICAL CONTRACTOR, GENERAL CONTRAC HIRED DIRECTLY BY THE OWNER WHERE CONFL	TOR AND ANY	11. ANY PART OF THIS INSTALLATION DAMAGED DURING CONSTRUCTION SHA	
AND GÉNERAL ARRANO	GEMENT ONLY.	NECESSARY TO SECURE THE BEST CONDITIONS AND RES DETERMINED BY THE PROJECT SITE CONDITIONS AND SH	ALL HAVE THE		ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.		HALL BE RESOLVED PRIOR TO INSTALLATION.	-	THE CONTRACTOR AT NO ADDITIONAL C	OST TO THE OWNER.
ACCORDANCE WITH M	CAL EQUIPMENT AND APPURTENANCES IN ANUFACTURERS' RECOMMENDATIONS,	APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. SCALE DRAWINGS.	DO NOT 6. BRANCH DUCT SIZES AR NOTED OTHERWISE.	E THE SAME AS DIFFUSER NECK SIZE, UNLESS 2	3. IN CORRIDORS WHERE CEILING DEVICES AND AIR DIFFUSERS ARE	EXTENT OF TH	WINGS SHOW THE GENERAL DESIGN ARRANGE SYSTEM. IT SHALL BE THE WORK OF THE CONT	RACTOR TO	THE EQUIPMENT MANUFACTURER'S REC	COMMENDATIONS. PROVIDE ALL
	TS, AND APPLICABLE CODES AND REGULATIONS.	17. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROF INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING. DU		CLEAR DOORS AND WINDOWS.	INDICATED BETWEEN THE SAME LIGHT FIXTURES, INSTALL BOTH DEVICES AT THE QUARTER POINTS BETWEEN THE SAME FIXTURE.	SYSTEM COMP	GHT ALTERATIONS AS MAY BE NECESSARY TO N ETE AND OPERATIONAL IN ACCORDANCE WITH DEVIATIONS, SUCH AS CHANGES IN COMPONEN	THE DESIGN	FITTINGS, TRANSITIONS, VALVES AND O REQUIRED FOR A COMPLETE, WORKABL	
ARCHITECTURAL, PLUM	MBING, STRUCTURAL, CIVIL, ELECTRICAL WORK, R CONTRACT DOCUMENT DRAWINGS.	AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE AND INSTALLED BY THE MC.	FURNISHED 8. ALL DUCTWORK DIMENS	IONS, AS SHOWN ON THE DRAWINGS, ARE 2- SIONS AND DUCT SIZE SHALL BE INCREASED TO	4. UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM SENSORS AT 4-0" (CENTERLINE) A.F.F. NOTIFY THE ENGINEER OF ANY ROOMS WHERE		NTITIES OR MATERIAL, REQUIRE PRIOR APPROV	,	13. ALL MOTORS REQUIRED SHALL B CONTRACTORS. ALL MOTOR STARTING B	
-,	COMPLETED BEFORE ANY MECHANICAL	18. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUF	COMPENSATE FOR DUCT		THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS QUESTION ON LOCATION.	A 5. ALL PLU	MBING INFORMATION IS NOT SHOWN ON THE PLU		ORIGINAL EQUIPMENT, SHALL BE FURNIS CONTRACTOR.	
	GINSULATION IS APPLIED.	DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBF INSTALLATION.	ATION FREE 9. PROVIDE ALL 90° SQUAR VANES UNLESS OTHERW	E ELBOWS WITH DOUBLE RADIUS TURNING VISE INDICATED. 2	5. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE EC. TH	IE INFORMATION	E CONTRACTOR SHALL BE RESPONSIBLE FOR C ON ALL OTHER CONSTRUCTION DOCUMENTS INC	LUDING	14. THE CONTRACTOR IS RESPONSIE	LE FOR PLUMBING EQUIPMENT
DEVICES IN ACCESSIBL	TURE, PRESSURE, AND FLOW MEASURING LE LOCATIONS WITH STRAIGHT SECTION OF PIPE ND DOWNSTREAM AS RECOMMENDED BY THE	19. ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTED FR STRUCTURAL STEEL SHALL BE COORDINATED WITH GENE		NECTIONS IN ALL DUCTWORK SYSTEMS EXHAUST) CONNECTED TO HEAT PUMPS, FANS,	MC SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR I DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WIT MANUFACTURER'S PRINTED INSTRUCTIONS.	Н	L, STRUCTURAL, MECHANICAL AND ELECTRICAL		CHECK-IN SAFEKEEPING AND DAMAGE.	
MANUFACTURER FOR		CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BE	TRUSSES, OR AND OTHER EQUIPMENT	WHICH REQUIRES VIBRATION ISOLATION.	6. MC TO MAKE CUTS IN FLOOR FOR PENETRATIONS OF DUCTWORK.	SMALL SCALE (OF THE DRAWINGS ARE DIAGRAMINATIC. BECAUS OF THE DRAWINGS, THEY DO NOT SHOW EVERY (SESSARY FOR THE COMPLETE INSTALLATION IN -	OFFSET, BEND	THE FINISHED FLOOR ELEVATION.	
OF THE ASSOCIATED A	AND BALANCING AGENCY SHALL BE A MEMBER NR BALANCE COUNCIL (AABC) OR THE NATIONAL	MEETING MSS STANDARDS. WELDING TO STRUCTURAL ME SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL	EMBERS CONNECTION TO THE EC	QUIPMENT UNLESS OTHERWISE INDICATED.	MECHANICAL DUCT PENETRATIONS TO BE IN SLAB ONLY. DO NOT CUT OR DAMAGE CONCRETE JOIST STEMS.		LOCATIONS FOR PLUMBING EQUIPMENT AND PILCOORDINATED WITH THE ARCHITECTURAL, MEC		16. CONTRACTOR TO VERIFY INVERT SIZES OF ALL EXISTING PIPING TO BE CO	-)
AND BALANCING SHALI	NCING BUREAU (NEBB). TESTING, ADJUSTING, L BE PERFORMED IN ACCORDANCE WITH THE		THE UNDERSIDE OF THE	TED, ALL DUCTWORK IS OVERHEAD, TIGHT TO STRUCTURE, WITH SPACE FOR INSULATION IF			ND ELECTRICAL DRAWINGS.			
AABC STANDARDS.	E ITEMS OF THE SAME TYPE OF EQUIPMENT ARE	20. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALI SUPPORTED FROM METAL DECK.		T SHALL NOT EXCEED 3-0" AND NOT FORM AN		LOCAL SITE CO	OUTING OF WASTE AND WATER SERVICE IS DEP NDITIONS AND MODIFICATIONS IN EQUIPMENT C ON OF EQUIPMENT MAY VARY DEPENDING ON LC	ONNECTIONS.	APPLICABLE CODES. FLOOR CLEANOUTS AREAS.	ANCE WITH THE REQUIREMENTS OF S SHALL BE LOCATED OUT OF TRAFFIC
	UCT OF ONE MANUFACTURER SHALL BE USED.	21. ALL ROOF MOUNTED EQUIPMENT CURBS FOR EQUIPMENT THE MC SHALL BE FURNISHED BY THE MC AND INSTALLED	PROVIDED BY ANGLE GREATER THAN 4				TMENT AND CITY REQUIREMENTS.	JOAL OODL,	18. LOCATE ALL PLUMBING VENTS AT	LEAST 3 FEET ABOVE OR 10 FEET
CONFORM TO ASTM 31	AILING, AND PLACEMENT OF CONCRETE SHALL 5 AND ACI 318. CONCRETE SHALL CONFORM TO	22. LOCATIONS AND SIZES OF ALL FLOOR, ROOF, AND WALL C	PENINGS AROUND OBSTRUCTIONS	LUDING DIVIDED DUCTS AND TRANSITIONS S, SHALL BE PROVIDED AT NO ADDITIONAL		8. DETAILS	THE CONTRACTOR IS RESPONSIBLE TO REVIEW	V AND USE	AWAY FROM ALL OUTSIDE AIR INTAKES	
ENTITLED "CONSTRUC"	WORK SHALL CONFORM TO ACI 318, PART TION REQUIREMENTS." COMPRESSIVE STRENGTH	SHALL BE COORDINATED WITH ALL OTHER TRADES INVOL								,
CONCRETE SHALL BE E	,000 PSI. TOTAL AIR CONTENT OF EXTERIOR BETWEEN 5 AND 7 PERCENT OF VOLUME. SLUMP AND 4 INCHES. CONCRETE SHALL BE CURED FOR	 ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPINO ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR APPROVED EQUAL. 	TO 3M OR SMOKE DETECTORS, FIR	S IN DUCTWORK TO PROVIDE ACCESS FOR ALL E DAMPERS, SMOKE DAMPERS, VOLUME , COILS, AND OTHER ITEMS LOCATED IN THE				AEA	FIXTURES.	L BE LISTED AND I ARFI FD RY ΔΝ
7 DAYS AFTER PLACEN	IENT.	24. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND	DUCTWORK WHICH REQU	UIRE SERVICE AND/OR INSPECTION.		E A E		A E ,	APPROVED TESTING AGENCY.	
DRAWINGS COORDINA	IPMENT CONNECTIONS WITH MANUFACTURER'S TE AND PROVIDE ALL DUCT AND PIPING		ADJUSTMENT, AND MAIN	S IN DUCTWORK FOR OPERATION, ITENANCE OF ALL FANS, VALVES, AND	$\begin{bmatrix} & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & $	C <u>KEY PLAN - LEVEL</u>			PIPE LOCATIONS WHERE VALVE CLOSUF	
FURNISHED EQUIPMEN	ED FOR FINAL EQUIPMENT CONNECTIONS TO IT. FIELD VERIFY AND COORDINATE ALL DUCT NS BEFORE FABRICATION.	 ALL WORK SHALL COMPLY WITH LOCAL CODES, INTERNAT BUILDING CODE, UNIFORM AND INTERNATIONAL MECHANI AND NFPA. 	CAL CODE,	T. DR DUCTWORK GAUGES, BRACING, HANGERS,		L			CAUSE WATER HAMMER OR RESULT IN E MOVEMENT.	EAGESSIVE PIPE VIBRATION OR
	NS BEFORE FABRICATION.		16. SEE SPECIFICATIONS FO AND OTHER REQUIREME	, , , ,					22. THE CONTRACTOR SHALL OPERA ALL ASPECTS TO THE ENGINEER AND/OF	TE THE SYSTEM AND DEMONSTRATE R OWNER, TO PROVE IT'S
ELECTRIC CODE AND D	DIVISION 16 OF THE SPECIFICATION.		17. PROVIDE VOLUME DAMP DIFFUSERS OR REGISTE	ER IN ALL BRANCH TAKEOFFS CONNECTING TO RS.			└╷╒╎╎╒╷┘		OPERATIONAL.	
	EPING PADS TO SUIT MECHANICAL EQUIPMENT NSTALLED BY THE MC. MINIMUM CONCRETE PAD			E OF SHUTDOWN FOR EXISTING HVAC SYSTEMS,		_J			23. INSTALL 4" AND LARGER SANITAR SMALLER SIZES AT 1/4" PER FOOT.	Y PIPING AT 1/8" PER FOOT SLOPE,
									24. DO NOT INSTALL HW AND CW SUF	PPLY PIPING IN ATTIC SPACE OR
									SPACES SUBJECT TO FREEZING. 25. COORDINATE EXACT LOCATION C	F FIXTURES AND DRAINS WITH
									ARCHITECTURAL DRAWINGS.	
									26. PROVIDE 3" MINIMUM VENT THRU BELOW BUILDING INSULATION.	ROOF. INCREASE VENT LINE SIZE 12"

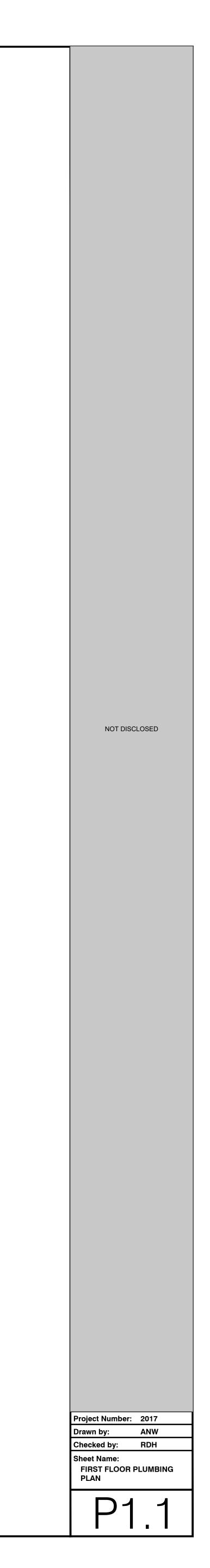


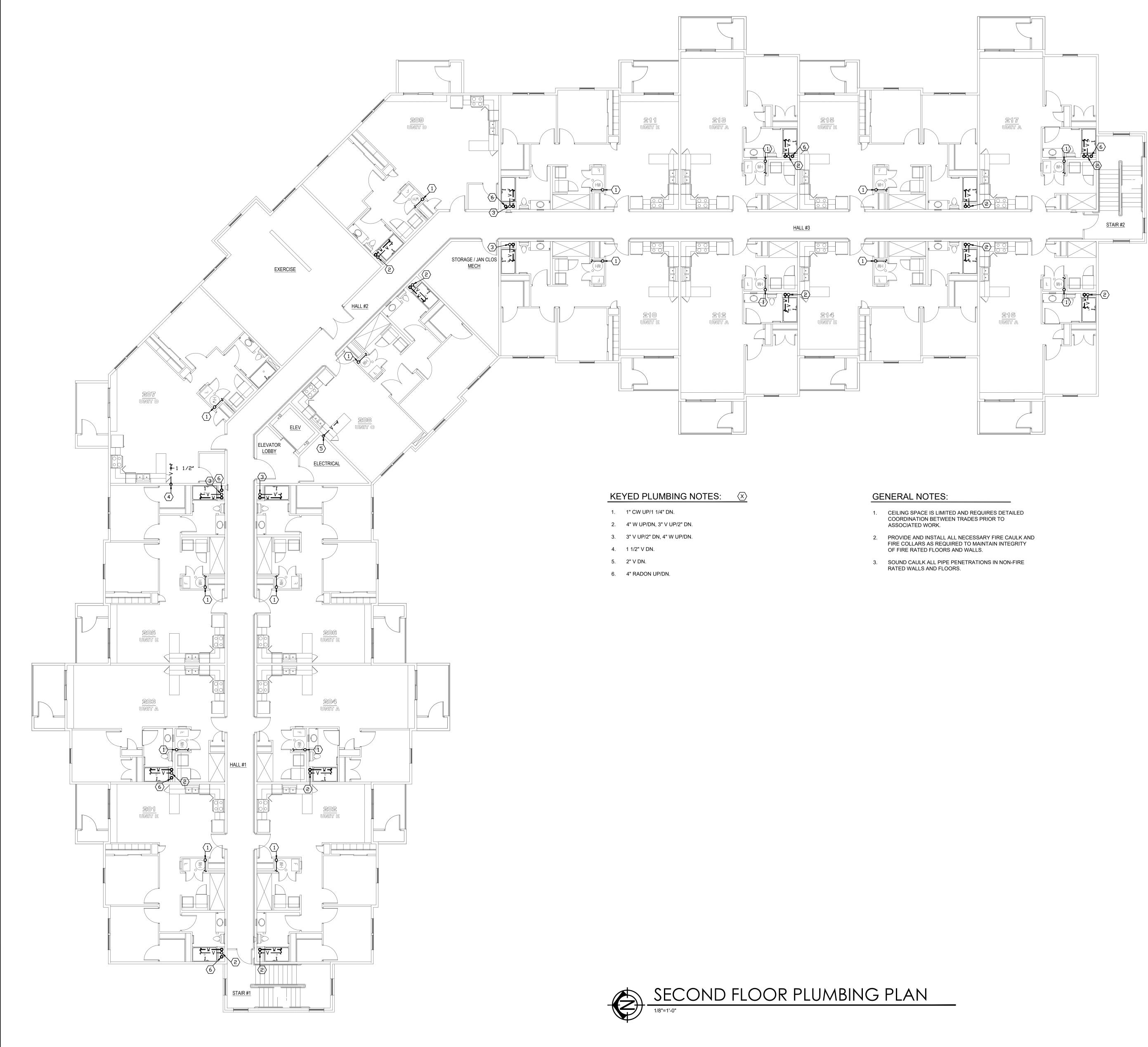


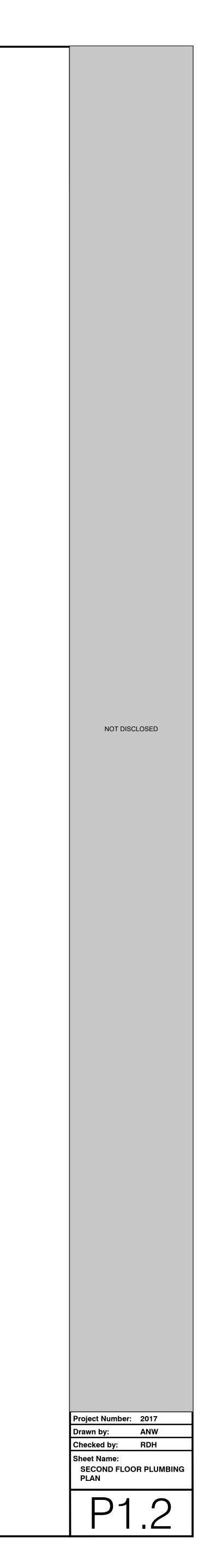


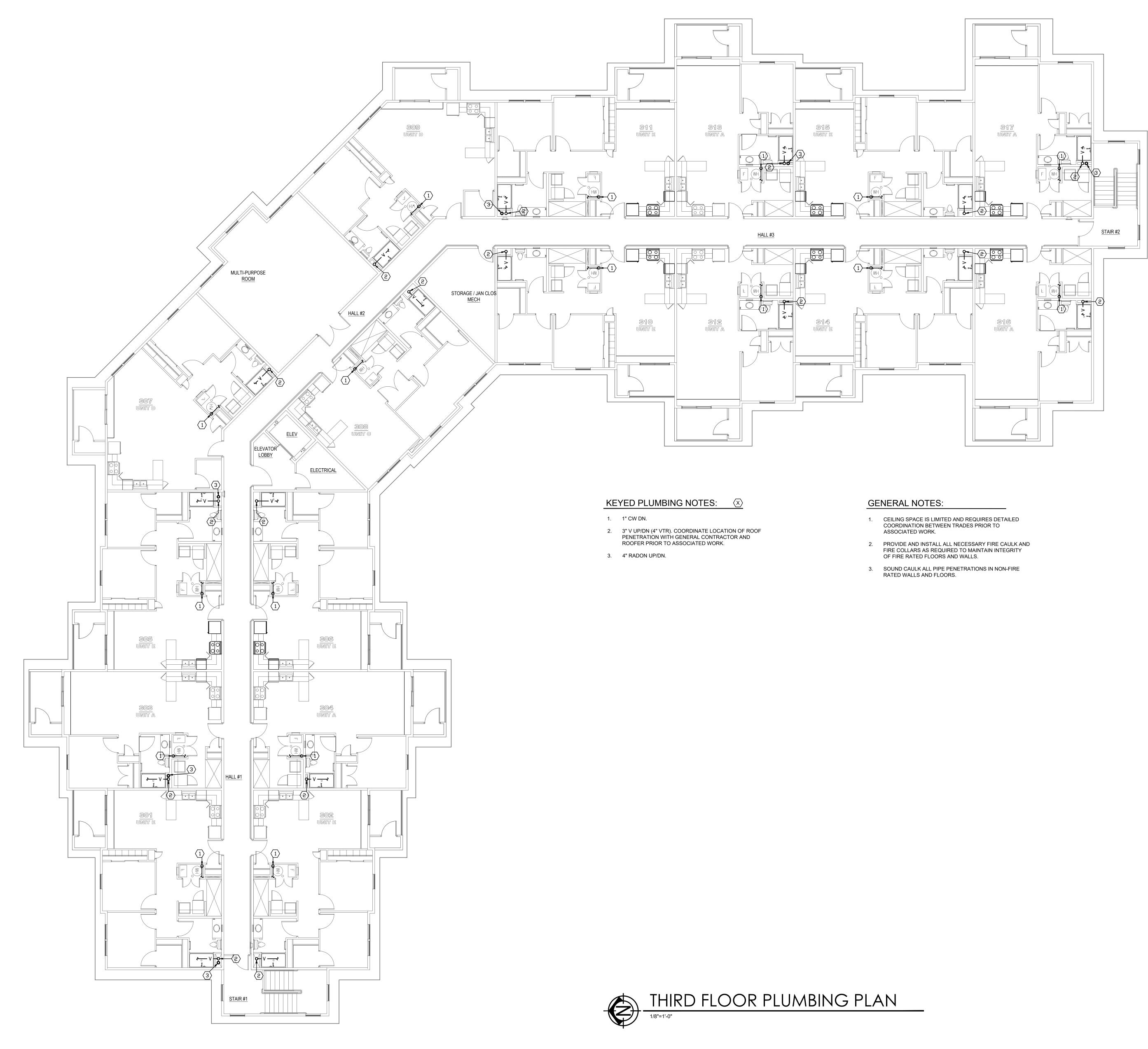


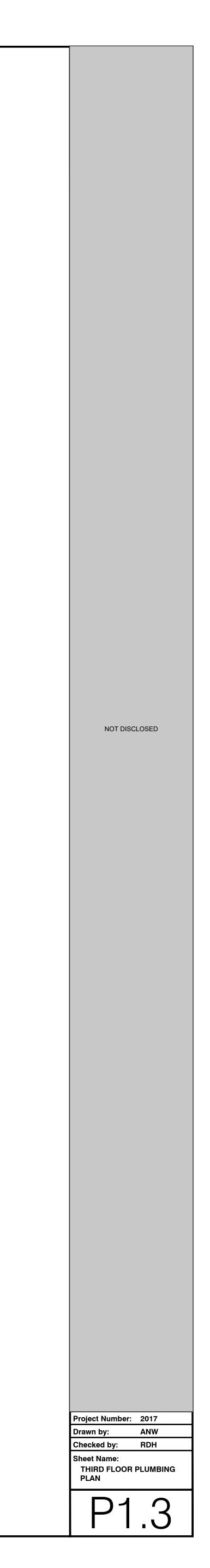


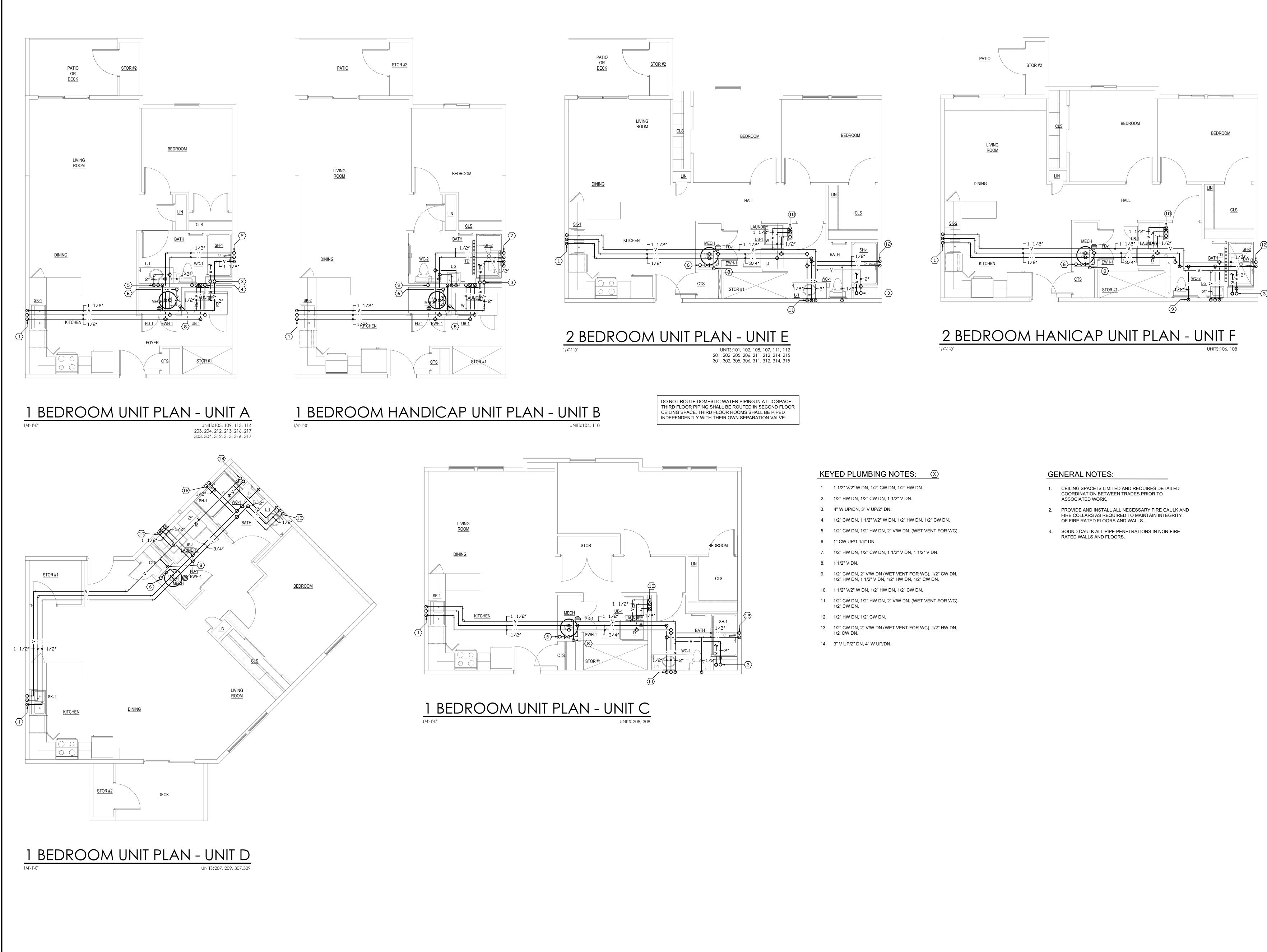


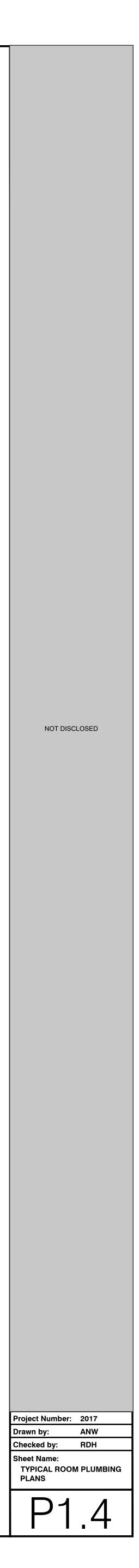


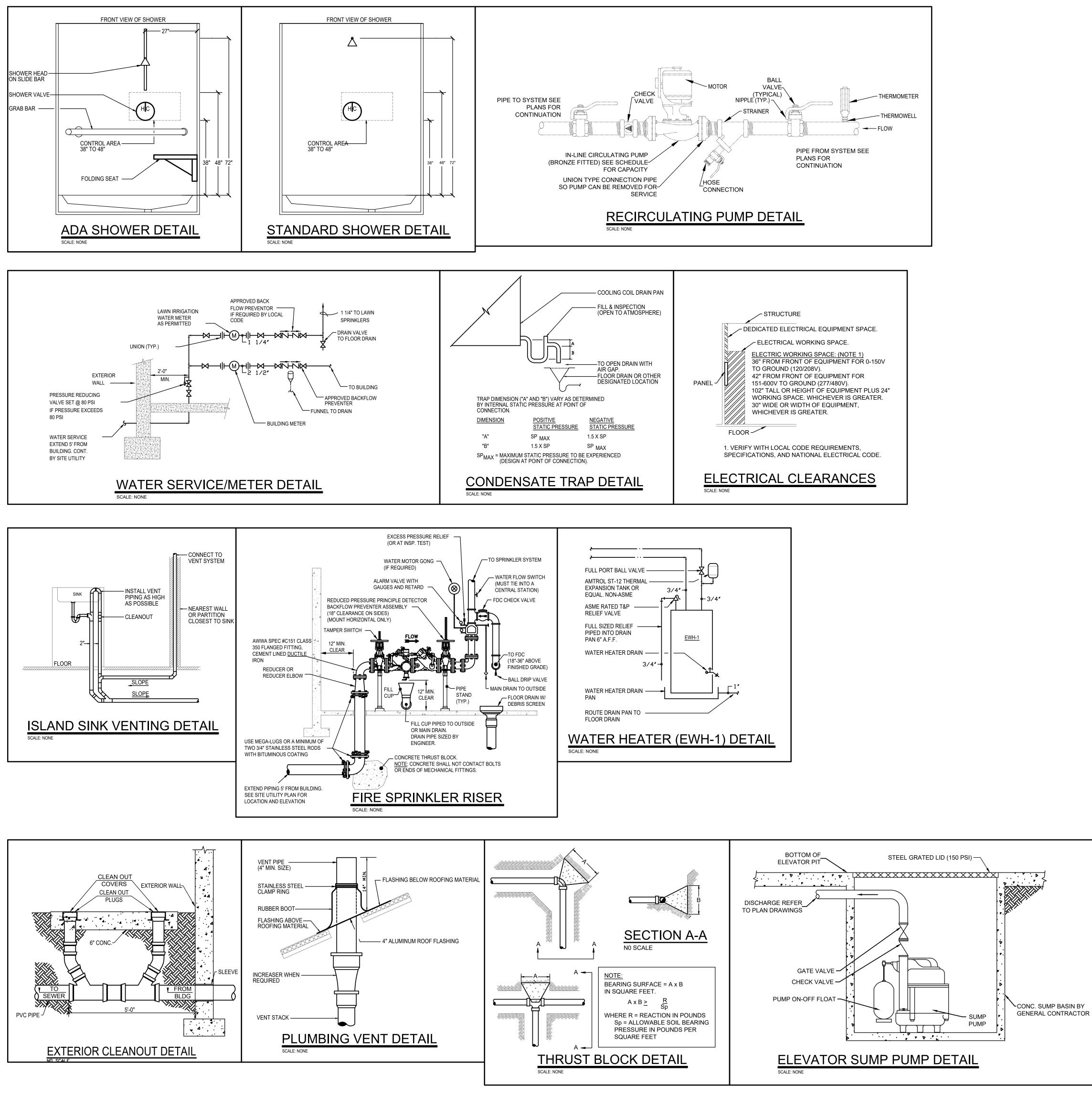












FIXTURE SYMBOL	TYPE	MANUFACTURER	MODEL NO.	TRIM	SUPPLIES	WASTE	REMARKS
WC-1	WATER CLOSET FLUSH TANK FLOOR MOUNT - ADA	MANSFIELD	137-161 ALTO SERIES		BRASSCRAFT KTCR19 STOP 649 ESCHUTEON		CHURCH SEAT MODEL 380SLOW TRIP LEVER TO WIDE SIDE OF S
WC-2	WATER CLOSET FLUSH TANK FLOOR MOUNT - ADA	MANSFIELD	137-161 ALTO SERIES		BRASSCRAFT KTCR19 STOP 649 ESCHUTEON		CHURCH SEAT MODEL 9400CT TRIP LEVER TO WIDE SIDE OF S
L-1	LAVATORY DROP IN CHINA	MANSFIELD	249-4 MAVERICK SERIES	MOEN L4621 FAUCET	BRASSCRAFT KTCR19 STOPS S1-20 SUPPLIES 649 ESCHUTEONS	METAL POP UP ASSEMBLY (INC. W/ FAUCET), 1 1/2" BRASS P-TRAP	P-TRAP SHALL BE 17 GA. FRONT OVERFLOW
L-2	LAVATORY WALL HUNG CHINA - ADA	MANSFIELD	2008-4 WALNUT KNOLL SERIES	MOEN L4621 FAUCET	BRASSCRAFT KTCR19 STOPS S1-20 SUPPLIES 649 ESCHUTEONS	METAL POP UP ASSEMBLY, 1 1/2" BRASS P-TRAP	P-TRAP SHALL BE 17 GA. TRUBRO TRAP WRAP ASSEMBLY
L-3	LAVATORY WALL HUNG - ADA	MANSFIELD	2008-4 WALNUT KNOLL SERIES	MOEN L4621 FAUCET FAUCET W/PLUGGED DRAIN HOLE & GRID DRAIN	BRASSCRAFT KTCR19 STOPS S1-20 SUPPLIES 649 ESCHUTEONS	METAL GRID DRAIN ASSEMBLY, OFFSET WASTE, 1 1/2" BRASS P-TRAP	P-TRAP SHALL BE 17 GA. TRUBRO TRAP WRAP ASSEMBLY
SK-1	SINK - STAINLESS STEEL 2-COMPARTMENT	DAYTON	DSE23321 4-HOLE	MOEN 7430 BADGER 5 DISPOSAL	BRASSCRAFT KTCR19 STOPS S1-20 SUPPLIES 649 ESCHUTEONS	CUP STYLE BASKET STRAINER, DISPOSAL WASTE, 1 1/2" BRASS P-TRAP	P-TRAP SHALL BE 17 GA. DISPOSAL ASSEMBLY. ISE BADG DISPOSAL OR EQUAL. DISHWAS LOOP DISHWASHER DRAIN AS H
SK-2	SINK - STAINLESS STEEL 2-COMPARTMENT - ADA	DAYTON	D23321 4-HOLE	MOEN 7430 BADGER 5 DISPOSAL	BRASSCRAFT KTCR19 STOPS S1-20 SUPPLIES 649 ESCHUTEONS	CUP STYLE BASKET STRAINER, DISPOSAL WASTE, 1 1/2" BRASS P-TRAP	P-TRAP SHALL BE 17 GA. DISPOSAL ASSEMBLY. ISE BADG DISPOSAL OR EQUAL. DISHWAS LOOP DISHWASHER DRAIN AS H
SH-1	SHOWER	HAMILTON BATHWARE	G 6233 IBS	MOEN L2352 SHOWER VALVE & TRIM KIT		2" SHOWER DRAIN ASSEMBLY	INCLUDE OPTIONAL GRAB BAR I INCLUDE FACTORY INSTALLED (
SH-2	SHOWER - ADA	HAMILTON BATHWARE	G 6233 IBS	MOEN 8342 ADA 3 FUNCTION SHOWER SYSTEM		2" SHOWER DRAIN ASSEMBLY; TRENCH DRAIN OUTSIDE OF SHOWER	INCLUDE OPTIONAL FACTORY S STEEL GRAB BARS, FOLD UP SE DAM, REMOVABLE THRESHOLD HELD SHOWER/FAUCET/MIXING
UB-1	LAUNDRY BOX	GUY GRAY	FR-12	FIRE RATED BOX			SINGLE LEVER W/HAMMER ARRI
WH	WALL HYDRANT	WOODFORDe	MODEL 67				INTEGRAL VACUUM BREAKER LOOSE KEYED OPERATOR COORDINATE LENGTH W/ WALL
FD-1	FLOOR DRAIN	SIOUX CHIEF	822-NR HALO SERIES				NICKEL BRONZE ROUND STRAIN PROVIDE LEVELING SHIMS AS N
FD-2	FLOOR DRAIN	SIOUX CHIEF	832-NR SERIES				NICKEL BRONZE ROUND STRAIN PROVIDE LEVELING SHIMS AS N
FD-3	FLOOR DRAIN	SIOUX CHIEF	860-4Pi SERIES				CAST IRON ROUND STRAINER
FCO	FLOOR CLEANOUT	SIOUX CHIEF	834-NR SERIES				NICKEL BRONZE ROUND COVER PROVIDE LEVELING SHIMS AS N
FSK	FLOOR SINK	SIOUX CHIEF	860-293 SERIES				NICKEL BRONZE 1/2 GRATE
GCO	GRADE CLEANOUT	SIOUX CHIEF	851-24i SERIES				CAST IRON ROUND COVER
WCO	WALL CLEANOUT	SIOUX CHIEF	873 SERIES				BRASS PLUG , 6" COVER
HB	HOSE BIBB	WOODFORD	101P				INTEGRAL VACUUM BREAKER
TD	TRENCH DRAIN	ZURN	ZS880-48-ZS			2" WASTE CONNECTION	STAINLESS STEEL SLOTTED GR

REMARKS:

1. ALL FIXTURES INCLUDING FAUCET TRIM SHALL BE CAULKED. TOILETS AND OTHER FIXTURES ON TILE SHALL BE CAULKED W/CLEAR CAULK.

2. FIXTURES SHALL BE INSTALLED AS RECOMMENDED BY MANUFACTURER INCLUDING MORTOR BEDS FOR SOAKING TUBS, BATHBAYS AND SHOWERS IF RECOMMENDED.

3. COORDINATE FLOORING/THRESHOLD HEIGHT REQUIREMENTS FOR ADA SHOWERS WITH GENERAL CONTRACTOR PRIOR TO ASSOCIATED WORK.

4. SHOWER DRAINS SHALL BE INSTALLED WITH 100% SILICONE. COMPRESSION STYLE SHOWER DRAIN ASSEMBLIES ARE NOT ACCEPTABLE FOR FOR THIS PROJECT.

5. THE INTEGRITY OF THE FIRE RATED WALLS AND CEILINGS SHALL BE MAINTAINED AT ALL TIMES. THIS CONTRACTOR IS RESPONSIBLE FOR

FIRE CAULKING/SEALING/SOUND CAULKING AS REQUIRED TO COMPLETE THEIR SCOPE OF WORK.

6. FLOOR DRAINS SHALL HAVE A PROTECTIVE WATER-PROOF SEAL AROUND THE DRAIN TO PREVENT FLUIDS FROM LEAKING FROM UPPER LEVEL

INTO THE UNIT BELOW. COORDINATE WITH FLOORING CONTRACTOR PRIOR TO ASSOCIATED WORK. 7. THE FIXTURE STOPS AND SUPPLIES LISTED ABOVE SHALL BE CHROME 1/4 TURN BALL STYLE STOPS WITH CHROME METAL ESCUTEONS TRIM

RINGS (CAULKED TO WALL) AND FLEXIBLE BRAIDED STAINLESS STEEL SUPPLY TUBES OF APPROPRIATE LENGTH TO SERVE FIXTURE.

8. INSTALL ALL ADA FIXTURES PER MFG RECOMMENDED HEIGHTS AND LOCATIONS.

9. FD-1 SIOUX CHEIF HALO FLOOR DRAINS SHALL BE USED ON ALL 2ND AND 3RD FLOOR LOCATIONS.

WA	ATER I	HEATE	R SC	HED	OULE	1					
UNIT	MFG.	MODEL NO.	CAPACITY	INPUT	OPER	FIRST HOUR	RECOVERY @	ELECTRI	CAL	SHIP. WT.	F
NO.			GALLONS	WATTS	EFF (%)	RATING GPH	90° RISE	V/PH	FLA	(LBS)	
EWH-1	A.O. SMITH	ENT-50	50	4500	100	62	21	208/1	21.6	125	
EWH-2	A.O. SMITH	ENJ-30 LOWBOY	26	4500	100	43	21	208/1	21.6	125	

REMARKS:

ASME T&P RELIEF VALVE. 2. WATER HEATING SYSTEM SHALL HAVE AN AMTROL ST-12 OR EQUAL NON-ASME THERMAL EXPANSION TANK. VERIFY EXPANSION TANK AIR PRESSURE IS EQUAL TO INCOMING WATER PR). WATER HEATING SYSTEM SHALL HAVE AN AMTROL ST-12 OR EQUAL NON-ASME THERMAL EXPANSION TANK. VERIFY EXPANSION TANK AIR PRESSURE IS EQUAL TO INCOMING WATER PR

4. INSTALL WATER HEATER IN AN ALUMINUM DRAIN PAN. ROUTE DRAIN PAN OUTLET TO FLOOR DRAIN. . UNIT SHALL BE MOUNTED ABOVE MOP SINK ON A HOLDRITE MODEL 30-SWHP-WM WALL MOUNT PLATFORM OR EQUAL. ROUTE PLATFORM DRAIN AND T&P RELIEF VALVE DOWN TO MOP

PUMP SCHEDULE

PUMP	MANUFACTURER	MODEL	DESCRIPTION	STYLE	SIZE	MIN. FLUID	GPM	HEAD	MOTC	R		ELEC.		SUCTION	DISCH	Ī
NO.		NO.				TEMP. (F)		(FT)	MHP	BHP	RPM	VOLTS	PH	SIZE	SIZE	
P-1	TACO	006-PNP	RECIRC	INLINE		110°	2	7	1/40			120	1	1/2	1/2	I
SP-1	ZOELLER	940-0012	SUMP PUMP	SUMP		N/A	50	15	4/10			120	1	N/A	1 1/2	Ī
REMA	RKS:															
	VIDE WITH AOUAS	ΤΔΤ														

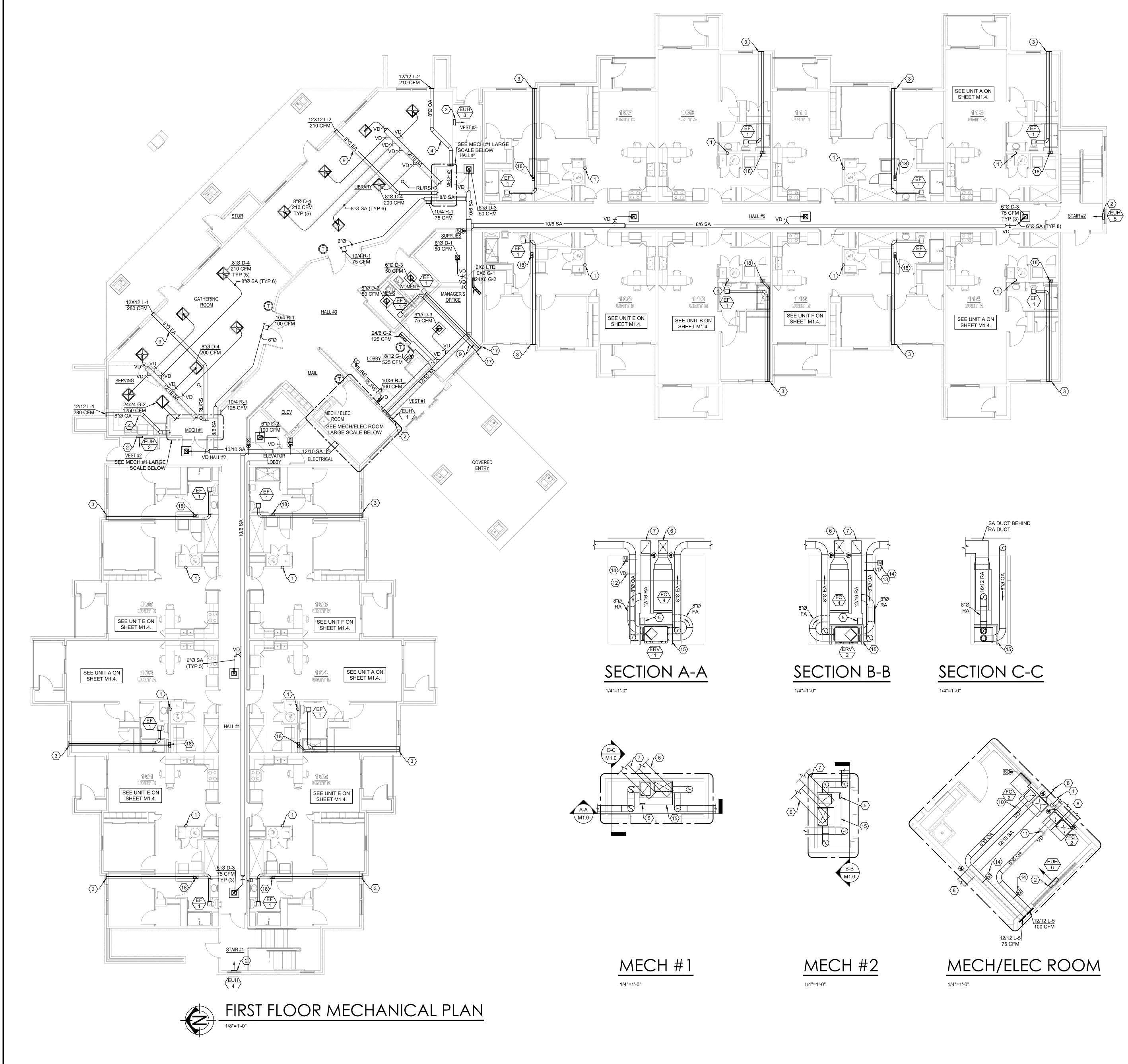
. PROVIDE WITH AQUASTAT. . PROVIDE WITH PLUG AND CORD.

. PROVIDE WITH INTEGRAL TIME CLOCK.

PROVIDE ZOELLER CHECK VALVE FOR PUMP DISCHARGE PIPING. . PROVIDE WITH ZOELLER OIL MINDER CONTROL SYSTEM WITH BUILT-IN AUDIBLE AND VISUAL ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR REMOTE ALARM. 5. PROVIDE WITH OIL MINDER POWER CABLE, PROBE CABLE AND HIGH LIQUID ALARM CABLE LENGTH AS REQUIRED IN CONDUIT FOR PUMP.

. PROVIDE WITH WATERTIGHT SLEEVE FOR PUMP. . PROVIDE WITH HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE FOR PUMP.

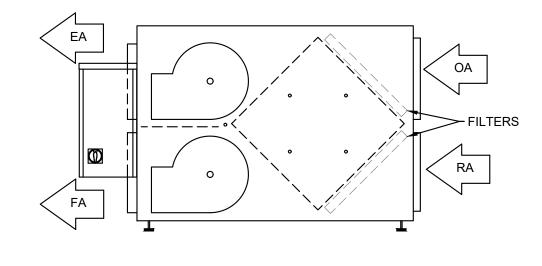
VT TALL	
TALL	
Y	
Y	
GER 5XP SHER CONN. HIGH AS POS.	
GER 5XP	
HER CONN. HIGH AS POS. BACKING	
GRAB BARS	
AT, FLEXIBLE AND HAND VALVE ASSY.	
ESTORS	
DEPTH NER	
IECESSARY NER IECESSARY	
2	
IECESSARY	
ATE OLLAR	
	NOT DISCLOSED
EMARKS	
,2,4	
,3,5	
RESSURE. RESSURE.	
SINK.	
EMARKS	
,2,3 ,5,6,7,8	
	Project Number: 2017
	Drawn by: ANW Checked by: RDH
	Sheet Name: PLUMBING SCHEDULE &
	DETAILS
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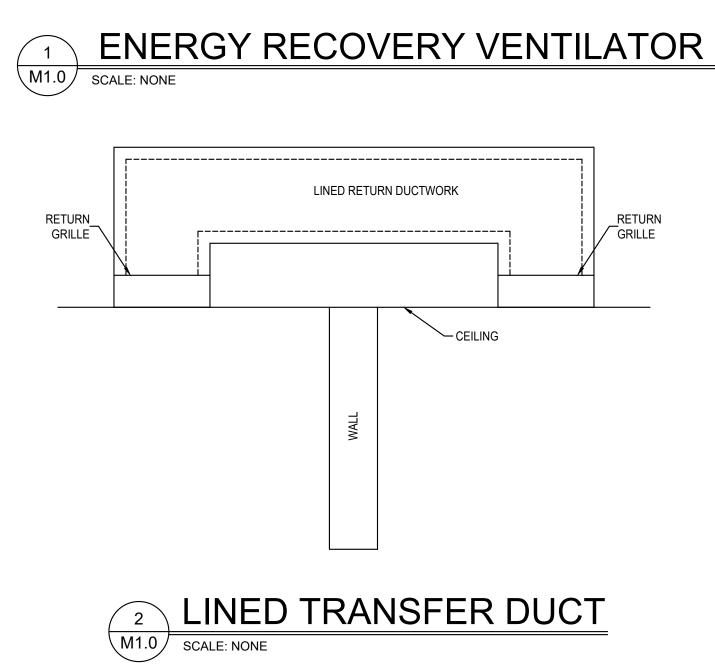
- 1. RL/RS LINES FROM AIR HANDLER TO MATCHED HEAT PUMP ON ROOF.
- 2. MOUNT UNIT HEATER IN WALL. COORDINATE ELEVATION AND LOCATION WITH ARCHITECTURAL.
- 3. ROUTE 6" RESTROOM EXHAUST AND 4" DRYER EXHAUST OUT THROUGH BRICK VENT SIMILAR TO XVENT BOX DHEB-S. PAINT VENT TO MATCH ADJACENT MATERIAL. INSULATE RESTROOM EXHAUST DUCT WITH 2" FOIL-FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL. INSULATE DRYER EXHAUST DUCT WITH 2" FOIL-FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL.
- 4. INSULATE OUTDOOR AIR DUCT WITH 2" FOIL-FACED FIBERGLASS INSULATION.
- 5. ERV TIME CLOCK. MOUNT ON ANGLE IRON PLATFORM IN FRONT OF THE RETURN DUCTWORK.
- 6. 12/16 SA IN JOIST SPACE.
- 7. 12/16 RA IN JOIST SPACE.
- 8. SEE FULL PLAN ABOVE FOR CONTINUATION.
- 9. INSULATE EXHAUST AIR DUCT WITH 2" FOIL-FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL.
- 10. BALANCE OA TO 75 CFM.
- 11. BALANCE OA TO 100 CFM.
- 12. BALANCE OA TO 280.
- 13. BALANCE OA TO 210.
- 14. LOW VOLTAGE MOTORIZED DAMPER. INTERLOCK DAMPER WITH ASSOCIATED FAN COIL UNIT. WHEN FAN COIL IS ENERGIZED THE DAMPER SHALL BE OPEN. WHEN FAN COIL IS DE-ENERGIZED, THE DAMPER SHALL CLOSE.
- 15. 1-1/2" x 1-1/2" x 1/8" ANGLE IRON FRAME.
- 16. NOT USED.
- 17. ROUTE 6" RESTROOM EXHAUST OUT THROUGH BRICK VENT SIMILAR TO XVENT BOX 6SEB-BR. PAINT VENT TO MATCH ADJACENT MATERIAL. INSULATE EXHAUST DUCT WITH 2" FOIL-FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL.
- 18. 4" DRYER EXHAUST DN TO DRYERBOX MODEL 425 DRYER BOX OR EQUIVALENT. SEE DETAIL 9 ON SHEET M2.0.

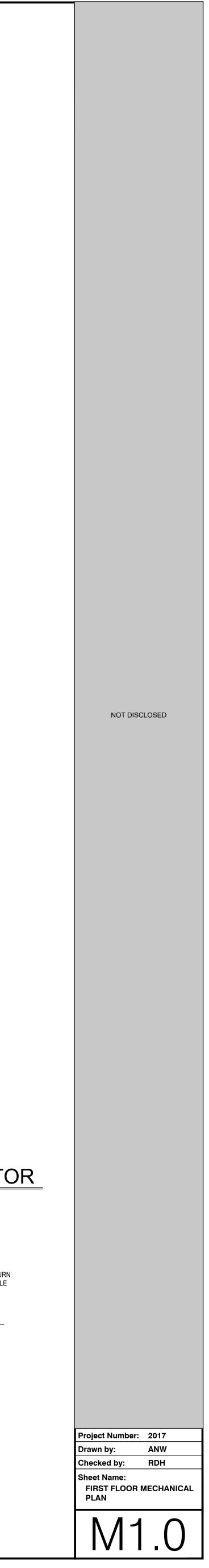
GENERAL NOTES:

- 1. REFER TO MANUFACTURING RECOMMENDATIONS FOR LINE SET SIZING. PROVIDE ALL ACCESSORIES AS REQUIRED BY MANUFACTURER FOR COMPLETE OPERATIONAL SYSTEM. INCLUDE ANY ACCESSORIES ASSOCIATED WITH LONG LENGTH APPLICATIONS.
- 2. MECHANICAL CONTRACTOR SHALL FIELD COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER REQUIREMENTS.
- 3. COORDINATE DUCT ROUTING AND HEIGHTS WITH GENERAL CONTRACTOR. VERIFY ALL CLEARANCES BEFORE STARTING WORK.
- 4. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENT AND LOCAL CODES.
- 5. ALL FURNACES AND WATER HEATERS TO BE INSTALLED IN ACCORDANCE WITH LOCAL MECHANICAL AND PLUMBING CODES. INCLUDING CLEARANCE FOR OPERATION AND SERVICING.
- 6. ALL PENETRATIONS THROUGH RATED CEILING TO BE PROTECTED WITH CEILING RADIATION DAMPER SIMILAR TO SOUTHWARH METAL MFG CO MODEL 59F CRD



FRONT VIEW



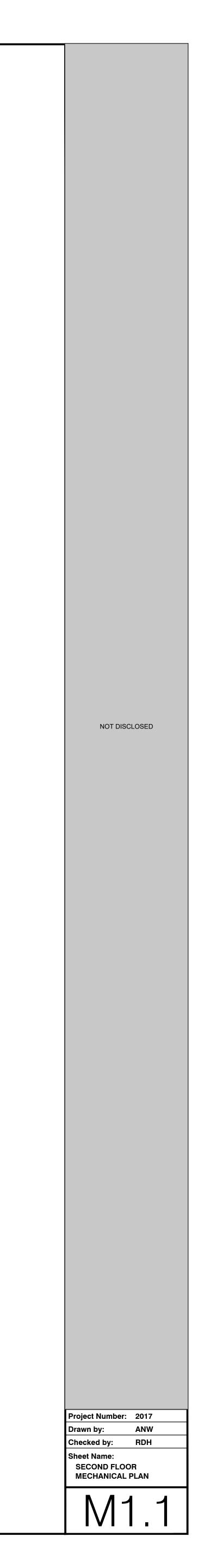


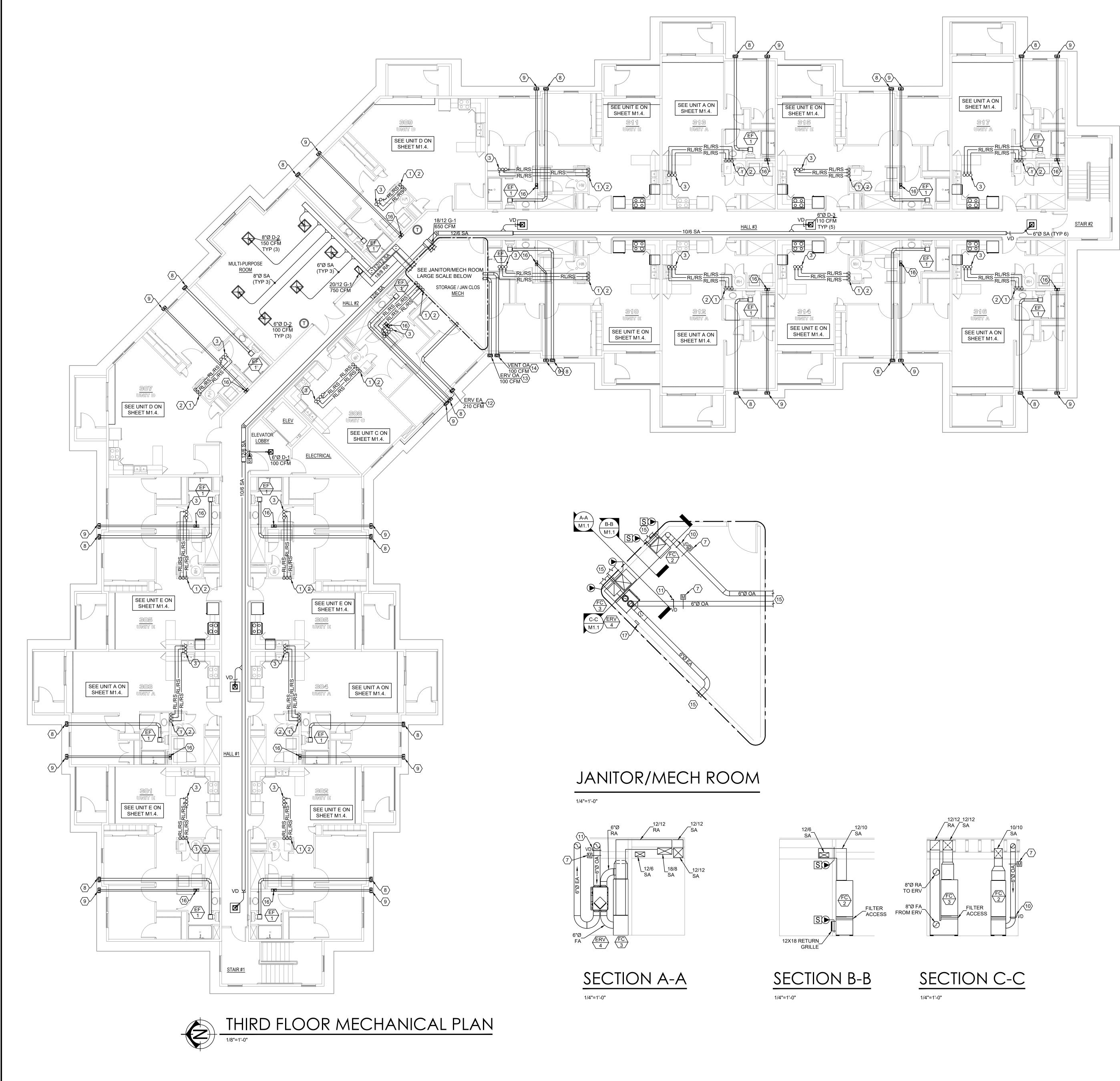


- 1. RL/RS LINES FROM AIR HANDLER TO MATCHED HEAT PUMP ON ROOF.
- 2. RL/RS LINES FROM AIR HANDLER BELOW TO MATCHED HEAT PUMP ON ROOF.
- 3. ROUTE 6" RESTROOM EXHAUST AND 4" DRYER EXHAUST OUT THROUGH BRICK VENT SIMILAR TO XVENT BOX DHEB-S. PAINT VENT TO MATCH ADJACENT MATERIAL. INSULATE RESTROOM EXHAUST DUCT WITH 2" FOIL-FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL. INSULATE DRYER EXHAUST DUCT WITH 2" FOIL-FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL.
- 4. BALANCE OA TO 210 CFM.
- 5. BALANCE OA TO 100 CFM.
- 6. LOW VOLTAGE MOTORIZED DAMPER. INTERLOCK DAMPER WITH ASSOCIATED FAN COIL UNIT. WHEN FAN COIL IS ENERGIZED THE DAMPER SHALL BE OPEN. WHEN FAN COIL IS DE-ENERGIZED, THE DAMPER SHALL CLOSED.
- 7. SEE FULL PLAN ABOVE FOR CONTINUATION.
- 8. 4" DRYER EXHAUST DN TO DRYERBOX MODEL 425 DRYER BOX OR EQUIVALENT. SEE DETAIL 9 ON SHEET M2.0.
- 9. INSULATE OUTDOOR AIR DUCT WITH 2" FOIL-FACED FIBERGLASS INSULATION.
- 10. INSULATE EXHAUST AIR DUCT WITH 2" FOIL-FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL.
- 11. MOUNT ERV ON WALL, SEE SECTION A-A. 12. ERV TIME CLOCK.

GENERAL NOTES:

- 1. REFER TO MANUFACTURING RECOMMENDATIONS FOR LINE SET SIZING. PROVIDE ALL ACCESSORIES AS REQUIRED BY MANUFACTURER FOR COMPLETE OPERATIONAL SYSTEM. INCLUDE ANY ACCESSORIES ASSOCIATED WITH LONG LENGTH APPLICATIONS.
- 2. MECHANICAL CONTRACTOR SHALL FIELD COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER REQUIREMENTS.
- 3. COORDINATE DUCT ROUTING AND HEIGHTS WITH GENERAL CONTRACTOR. VERIFY ALL CLEARANCES BEFORE STARTING WORK.
- 4. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENT AND LOCAL CODES.
- 5. ALL FURNACES AND WATER HEATERS TO BE INSTALLED IN ACCORDANCE WITH LOCAL MECHANICAL AND PLUMBING CODES. INCLUDING CLEARANCE FOR OPERATION AND SERVICING.
- 6. ALL PENETRATIONS THROUGH RATED CEILING TO BE PROTECTED WITH CEILING RADIATION DAMPER SIMILAR TO SOUTHWARH METAL MFG CO MODEL 59F CRD

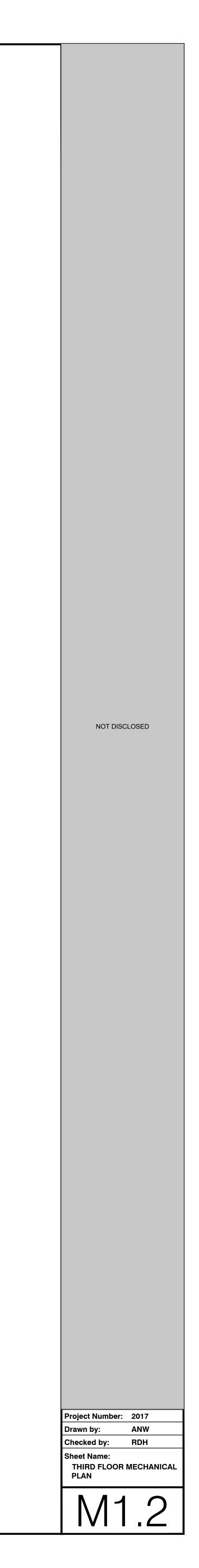


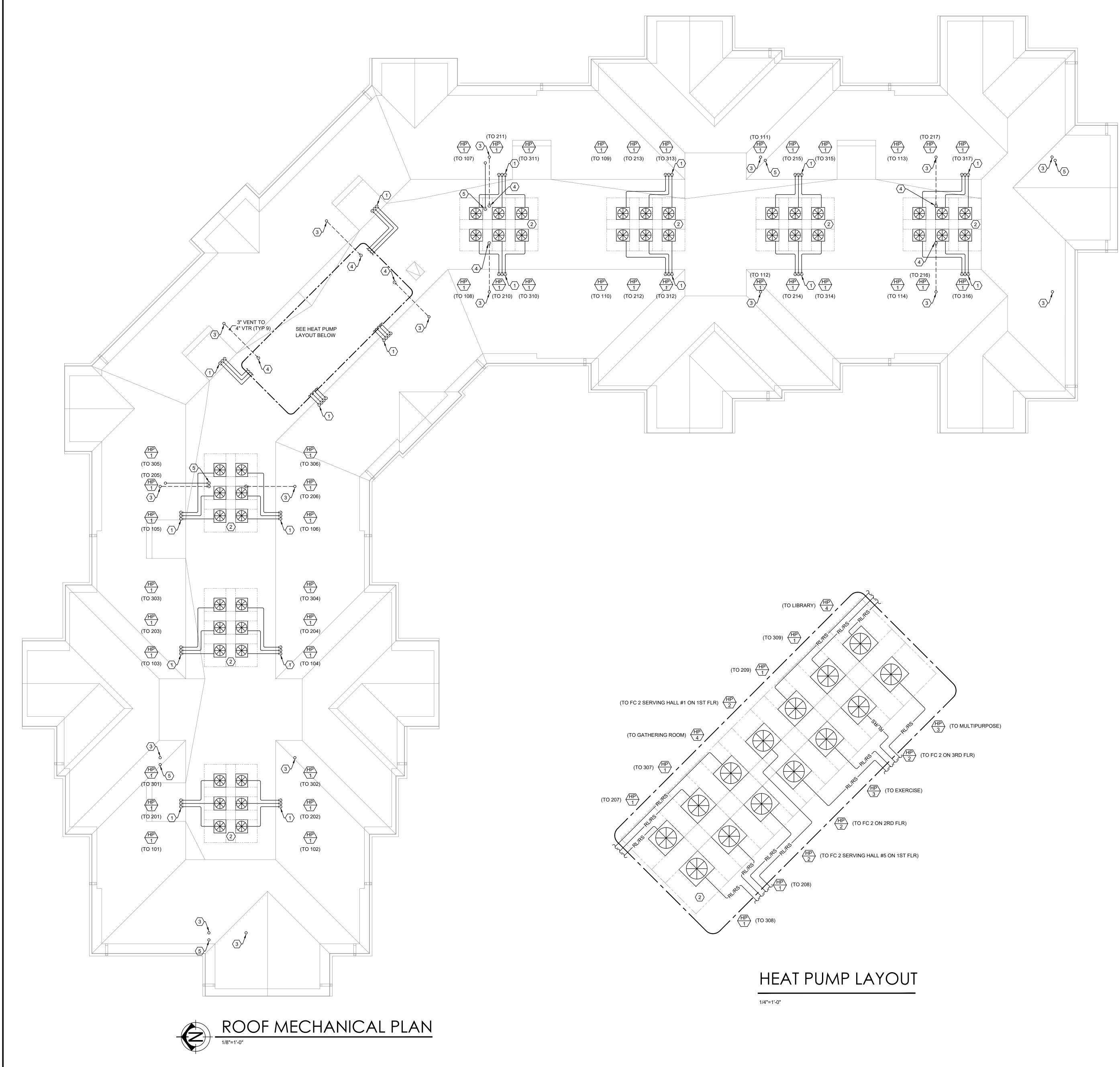


- 1. RL/RS LINES FROM AIR HANDLER TO MATCHED HEAT PUMP ON ROOF.
- 2. RL/RS LINES FROM AIR HANDLER(S) BELOW TO MATCHED HEAT PUMP ON ROOF.
- 3. RL/RS LINES ROUTED THROUGH ATTIC TO ROOF MOUNTED HEAT PUMPS. ROUTE UP THROUGH PARAPET
- WALL. 4. NOT USED.
- 5. MOUNT BOTTOM OF G-1 AT 6" A.F.F.
- 6. INSULATE OA DUCT WITH 3" FOIL-FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL .
- 7. LOW VOLTAGE MOTORIZED DAMPER. INTERLOCK DAMPER WITH ASSOCIATED FAN COIL UNIT. WHEN FAN COIL IS ENERGIZED THE DAMPER SHALL BE OPEN. WHEN FAN COIL IS DE-ENERGIZED, THE DAMPER SHALL CLOSED.
- 8. 6" RESTROOM EXHAUST. EXHAUST THROUGH EVE MOUNTED EXHAUST VENT SIMILAR TO DEFLECTOR MODEL #EVE/6. PAINT TO MATCH COLOR OF ADJACENT MATERIAL. INSULATE DUCT WITH 2" FOIL FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL.
- 9. 4" DRYER EXHAUST. EXHAUST THROUGH EVE MOUNTED EXHAUST VENT SIMILAR TO DEFLECTOR MODEL #EVE/6. PAINT TO MATCH COLOR OF ADJACENT MATERIAL. INSULATE DUCT WITH 2" FOIL-FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL.
- 10. BALANCE OA TO 100 CFM.
- 11. BALANCE OA TO 150 CFM.
- 12. 6" ERV EXHAUST. EXHAUST THROUGH EVE MOUNTED EXHAUST VENT SIMILAR TO DEFLECTOR MODEL #EVE/6. PAINT TO MATCH COLOR OF ADJACENT MATERIAL. INSULATE DUCT WITH 2" FOIL FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL.
- 13. 6" ERV OA INTAKE. INTAKE THROUGH EVE MOUNTED VENT SIMILAR TO DEFLECTOR MODEL #EVE/6. PAINT TO MATCH COLOR OF ADJACENT MATERIAL. INSULATE DUCT WITH 2" FOIL FACED FIBERGLASS INSULATION.
- 14. 6" VENTILATION INTAKE. INTAKE THROUGH EVE MOUNTED VENT SIMILAR TO DEFLECTOR MODEL #EVE/6. PAINT TO MATCH COLOR OF ADJACENT MATERIAL. INSULATE DUCT WITH 2" FOIL FACED FIBERGLASS INSULATION.
- 15. SEE FULL SCALE PLAN ABOVE FOR CONTINUATION.
- 16. 4" DRYER EXHAUST DN TO DRYERBOX MODEL 425 DRYER BOX OR EQUIVALENT. SEE DETAIL 9 ON SHEET M2.0.
- 17. ERV TIME CLOCK.

GENERAL NOTES:

- REFER TO MANUFACTURING RECOMMENDATIONS FOR LINE SET SIZING. PROVIDE ALL ACCESSORIES AS REQUIRED BY MANUFACTURER FOR COMPLETE OPERATIONAL SYSTEM. INCLUDE ANY ACCESSORIES ASSOCIATED WITH LONG LENGTH APPLICATIONS.
- MECHANICAL CONTRACTOR SHALL FIELD COORDINATE 2 WITH ELECTRICAL CONTRACTOR FOR ALL POWER REQUIREMENTS.
- 3. COORDINATE DUCT ROUTING AND HEIGHTS WITH GENERAL CONTRACTOR. VERIFY ALL CLEARANCES BEFORE STARTING WORK.
- 4. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENT AND LOCAL CODES. 5. ALL FURNACES AND WATER HEATERS TO BE INSTALLED
- IN ACCORDANCE WITH LOCAL MECHANICAL AND PLUMBING CODES. INCLUDING CLEARANCE FOR OPERATION AND SERVICING.
- 6. ALL PENETRATIONS THROUGH RATED CEILING TO BE PROTECTED WITH CEILING RADIATION DAMPER SIMILAR TO SOUTHWARH METAL MFG CO MODEL 59F CRD

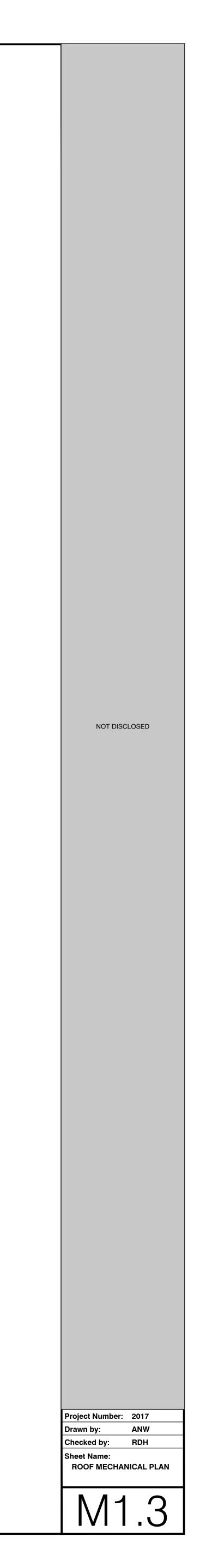


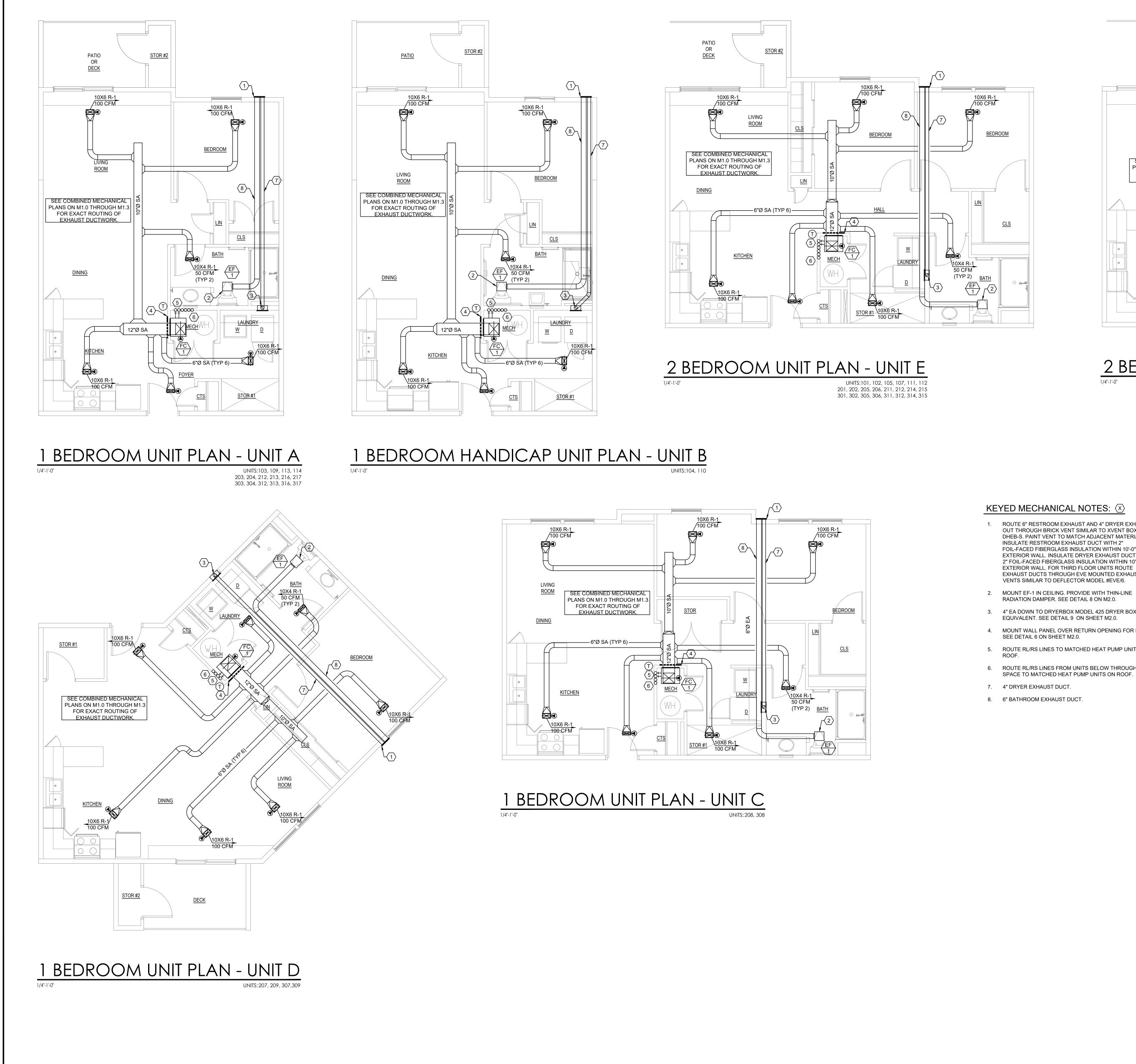


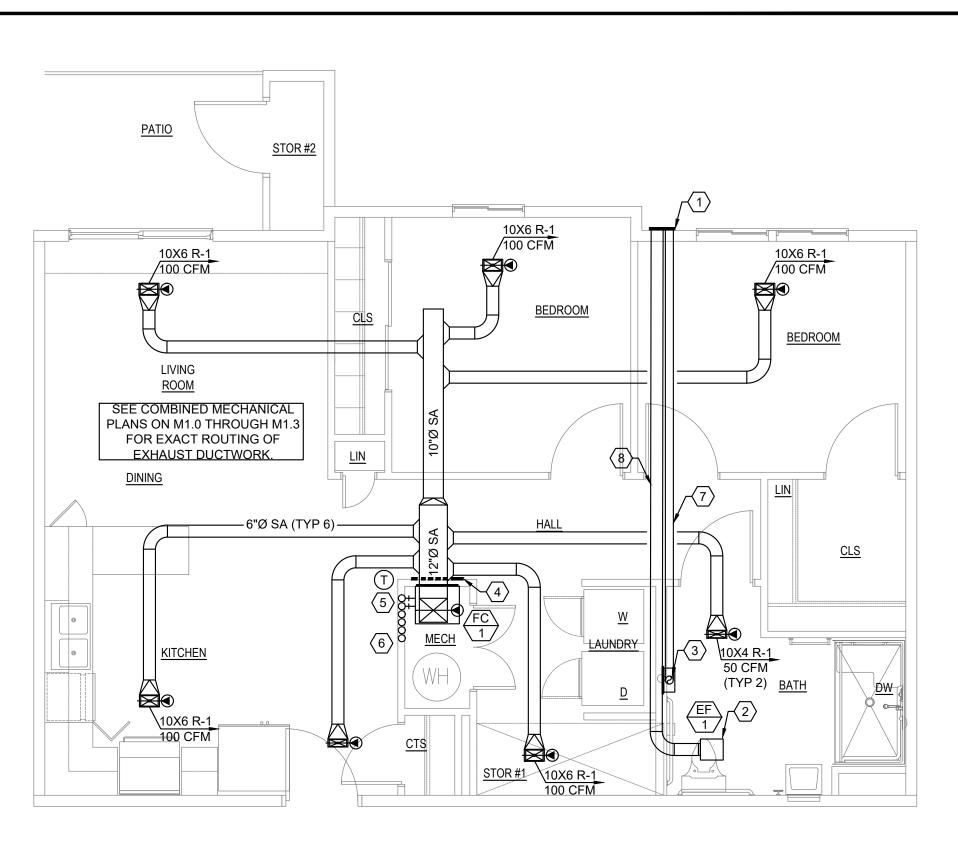
- 1. RL/RS LINES DOWN. ROUTE LINES THROUGH PARAPET WALL. FLASH WALL PENETRATION WITH "QUICKFLASH" LINESET FLASHING MODEL A/C U-C OR EQUIVALENT. SEAL ALL PENETRATIONS WEATHER TIGHT.
- 2. MOUNT GROUPED HEAT PUMPS ON ROOFTOP HOUSEKEEPING PAD WITH INTEGRAL LEVELING ADJUSTMENT.
- 4" VENT THROUGH ROOF. SEAL PENETRATION WEATHER TIGHT. SEE THIRD FLOOR PLUMBING PLAN ON P1.4 FOR CONTINUATION.
- 4. 3" V DN. SEE THIRD FLOOR PLUMBING PLAN ON P1.4 FOR CONTINUATION.
- 5. 4" RADON DN. SEAL PENETRATION WEATHER TIGHT.

GENERAL NOTES:

1. REFER TO MANUFACTURING RECOMMENDATIONS FOR LINE SET SIZING.





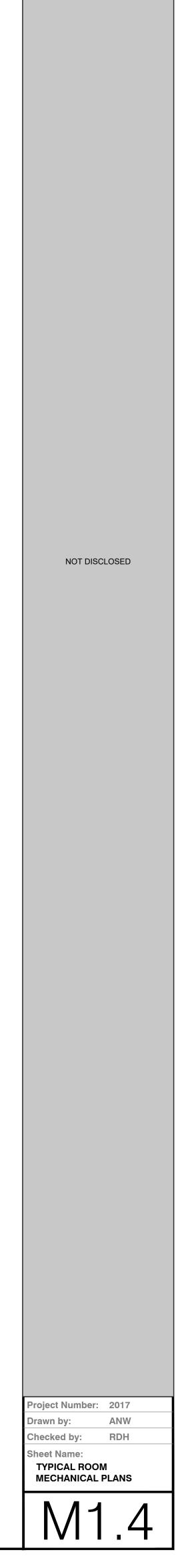


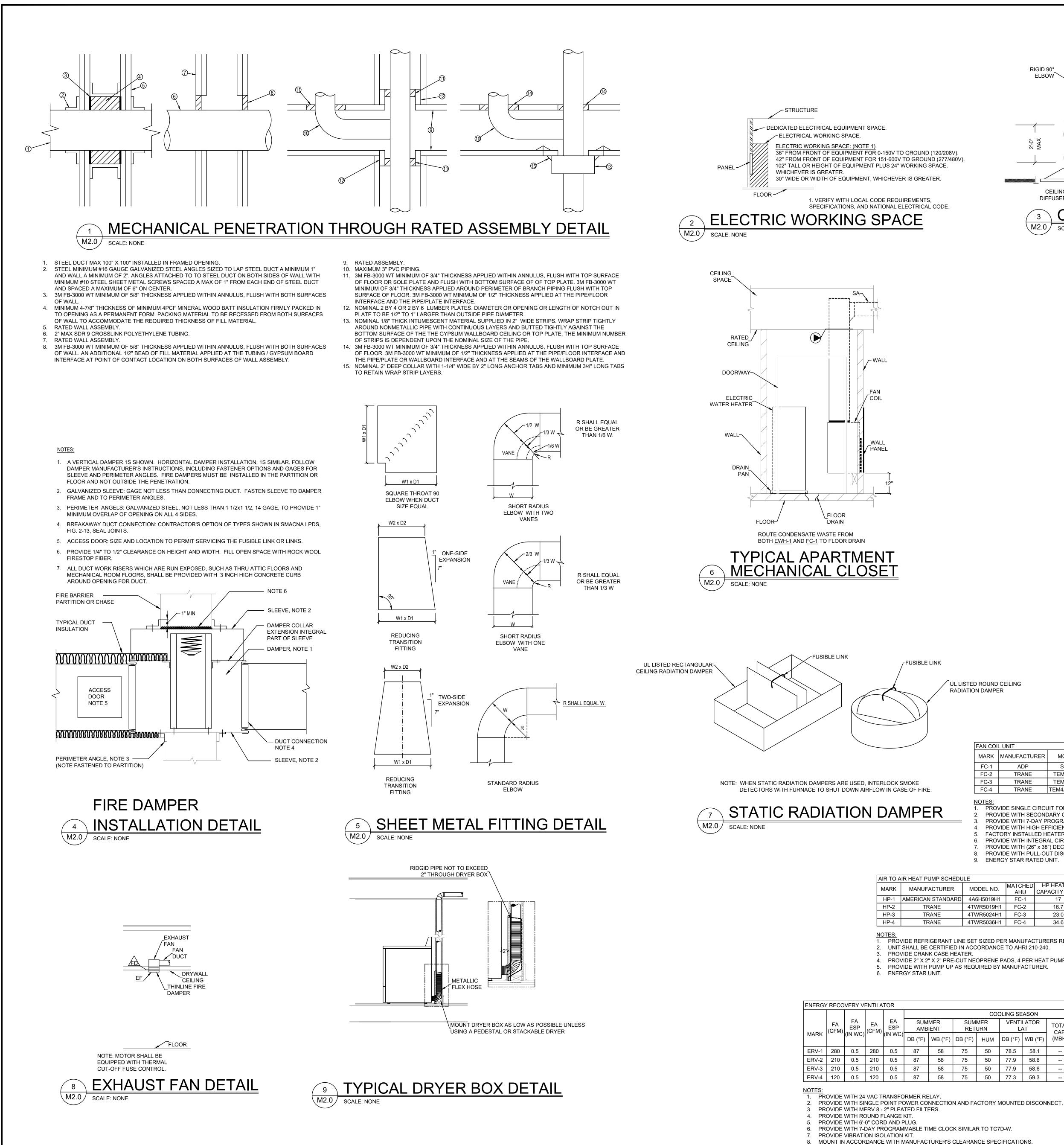


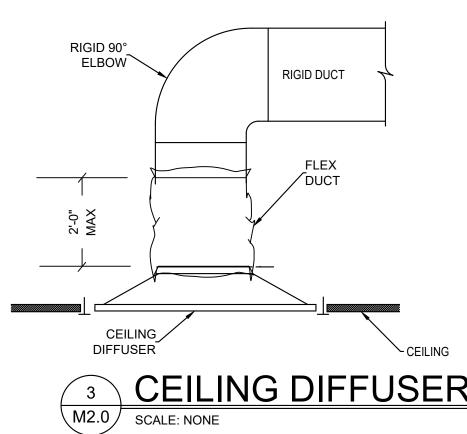
- 1. ROUTE 6" RESTROOM EXHAUST AND 4" DRYER EXHAUST OUT THROUGH BRICK VENT SIMILAR TO XVENT BOX DHEB-S. PAINT VENT TO MATCH ADJACENT MATERIAL. INSULATE RESTROOM EXHAUST DUCT WITH 2" FOIL-FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL. INSULATE DRYER EXHAUST DUCT WITH 2" FOIL-FACED FIBERGLASS INSULATION WITHIN 10'-0" OF EXTERIOR WALL. FOR THIRD FLOOR UNITS ROUTE EXHAUST DUCTS THROUGH EVE MOUNTED EXHAUST VENTS SIMILAR TO DEFLECTOR MODEL #EVE/6.
- 2. MOUNT EF-1 IN CEILING. PROVIDE WITH THIN-LINE RADIATION DAMPER. SEE DETAIL 8 ON M2.0.
- 3. 4" EA DOWN TO DRYERBOX MODEL 425 DRYER BOX OR EQUIVALENT. SEE DETAIL 9 ON SHEET M2.0.
- 4. MOUNT WALL PANEL OVER RETURN OPENING FOR FC-1.
- 5. ROUTE RL/RS LINES TO MATCHED HEAT PUMP UNIT ON
- 6. ROUTE RL/RS LINES FROM UNITS BELOW THROUGH
- 8. 6" BATHROOM EXHAUST DUCT.

GENERAL NOTES:

1. ALL DUCTWORK IS TO BE ROUTED IN TRUSS SPACE. 2. ALL PENETRATIONS THROUGH RATED CEILING TO BE PROTECTED WITH CEILING RADIATION DAMPER SIMILAR TO SOUTHWARK METAL MFG CO MODEL 59F CRD.







V	ENTII	LATION	REQI	JIREME	NTS (A	ASHR/	AE)							
	F	ROOM /	AREA	N	SIZ (SQ			™ / FT	PE	OPLE	CFM / PERSO		REQUIRED AIRFLOW (CFM)	
_		UND FLC			23			06		0	0		142	
	THIF	OND FLC	DR HA	LLS	16 16	19	0.	06 06		0	0		97 97	
	GA			OM	92 70	22 00		06 30	_	30 15	7.5 0		280 210	
	MAN	LIBRA NAGER'		ICE	93 12	39 25		06 06		30 1	5 5		206 13	
	М	IULTIPU STOR		E	70 12			06 12		15 0	5 0		117 15	
T HE	ATER	R - ELEC	TRIC							1				
		LOCAT		CF	-M	KW			PH		S OF DES			
UH-1 UH-2 UH-3		VEST VEST VEST	#2	10 10 10	00	1.8 1.8 1.8	120 120 120	0	1 1 1	QMA	RK CW-3 [^] RK CW-3 [°] RK CW-3 [°]	180F	1, 2, 3	
UH-4 UH-5		STAIF	R #1	10	00	3.0 3.0	208	8	1 1	QMA	RK CW-34 RK CW-34	104F	1, 2, 3	
UH-6		MECH/		10		3.0	208		1		RK CW-34			
PRC	OVIDE	E WITH I E WITH I	DISCO	ONNEC ⁻	T SWIT	CH.								
	DVIDE	E WITH 2	2" DEI	EP SEM	II-RECE	ESSED	D MOU	NTIN	G FRAM	ME SIMI	LAR TO M		EL #CWH3S2.	
S	USE	E	CFN	A I	X PD H ₂ 0)	S W	SIZE (IN	1) D		BASIS C	F DESIG	N	NOTES	
	ERV-		280 210	0	0.05	24 18	18 18	4	_		RTECH F			
	ERV-	-3	210 150	0	.05	18 12	18 12	4	UNIT	ED ENE	RTECH F	L-D-	4 1	
		OORS	100		.05	12	12	4	_		RTECH F			
OVIDE	E WIT	TH INSEC	CT SC	REEN.										
				I		F • · ·				1	+0++			
CHIN HP		AN COIL			DB (°F		B (°F)		J. OF CUITS	REFR TYPE	(MBF	ITY	NOTES	
IP-1 P-2		FC-1 FC-2		300 350	55 55		54 54		1 1	R-410 R-410	17.8	;	1	
P-3 P-4		FC-3 FC-4		750 250	55 55		54 54		1 1	R-410 R-410		5	1	
ASE[000	OLING C	OIL II	N FAN C		NIT.								
RILLE	ES													
IAX N		AMPER	(Y/N)	FRAM	e type		FINISH	I	BAS	SIS OF E	ESIGN		NOTES	
20 20		N			FACE	_	WHITE WHITE				00, 12X12 00, 24X24	_	1, 3, 4 1, 3, 4	
20 20		N		LA	Y-IN Y-IN		WHITE		KRUE	GER 14	00, 12X12		1, 4 1, 4	
15 25		Y N		SUR	FACE				KR		880H	_	1, 2, 3, 4 1, 4	NOT DISCLOSED
	DATA AN RF 700	PM DRI TYI	PE	VATTS 20	FLA 0.65	V 120		SON	IES		DF DESIG ECK SP-E		NOTES 1-5	
TAIL TRAC	CTOR		IG KIT	, AND I	BACKD	RAFT	DAMP	ER.						
VOLT	ГР	R ELEC		VV	MCA	TOT. AMF	AL PS M	10CF		S) NC			NUMBER	
208 208 208	-	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3	·	47.4 45 45	-		60 45 45	90 12 12	0 1-	6, 9 6, 9 6, 9	90	849014 10672 22637	
208		1 4.			94	-		100	15		6, 9		27467	
AL CA M	OPI	w FL/	A HS	PF SEE	ER CO)P	REF.		OPER. /T.(LBS) NOT	TES A	.HRI	NUMBER	
2 2 2 2	20 20	 	8. 8.	5 15	5 -	-	R410A R410A		170 170	1-	6	90	849014 10672	
	25 30						R410A R410A	_	180 220	1- 1-			22637 27467	
SEN CA (MB	P. H)	TOTAL EFF. 67%	V 120	PH	FLA 3.3		A OR HP EA 0.2				GN (I	EIGH _BS) _80		
4.	5	67% 72% 72%	120) 1	3.3 3.3 3.3	0.2	0.2	R	ENEWA	AIRE EV AIRE EV	240	80 70 70	1-9 1-9 1-9	
2.0		78%	120		1.5	0.1	0.1					70	1-9	Project Number: 2017
														Drawn by: ANW Checked by: RDH
														Sheet Name: MECHANICAL DETAILS & SCHEDULES

	Ŀ	VEN	TILATION	REQU	REM	ENTS	(ASHR	AE)]	
	F		ROOM /			5	SIZE Q FT)	CF	™ / FT	PE	OPLE	CFM / PERSON		REQUIRED	
	-	GR	OUND FLC	OR H	ALLS		2367		.06		0	0	N	(CFM) 142	
	F		COND FLC				1619 1619	-	.06		0	0	+	97 97	
	-	G	ATHERIN		M	_	922 700	-	.06 .30		30 15	7.5 0		280 210	
	-		LIBRA	RY	05		939	0.	.06	;	30	5		206	
	F			RPOSE	-		125 700	0.	.06		1 15	5		13 117	
.		- ^	STOR/				125	0.	.12		0	0		15	
	MARI		R - ELECI		C	CFM	ELEC [.] KW			ATA PH	BASI	S OF DESI	GN	NOTES	
	EUH-		VEST VEST		-	100	1.8 1.8	120	0	1 1		RK CW-31 RK CW-31		1, 2, 3 1, 2, 3	
	EUH-	.3	VEST	#3		100 100 100	1.8 3.0	120	0	1 1 1	QMA	RK CW-31	80F	1, 2, 3	
	EUH-	·5	STAIR MECH/E	#2	-	100 100 100	3.0 3.0	20	8	1	QMA	RK CW-34	04F	1, 2, 3	
	DTES: I. PR	20//1	DE WITH N				1								
2	2. PR	ROVIE	DE WITH D	DISCO	NNEC	CT SW	ITCH.						DDE	L #CWH3S2.	
J۷	ERS									1					
Rk	<		SE	CFM	(11	AX PD N H ₂ 0)	W	SIZE (IN	D					NOTES	
.1 2		ER	V-1 V-2	280 210		0.05	24 18	18 18	4	UNIT	ED ENE	RTECH FL	D-4	1	
.3 .4 5	-	ER	V-3 V-4	210 150		0.05	18 12	18 12	4	UNIT	ED ENE	ERTECH FL ERTECH FL	D-4	k 1	
5 <u>=</u> S				100	-1	0.05	12	12	4	ιυΝΙΤΙ	ENE עב	ERTECH FL	U-4	1	
Ρ	κυνιε	JE W	ITH INSEC	∕ i SCF	κΕΕΝ										
	атснії		FAN COIL				EAT		NUT	. OF	REFR	TOTA			
111	HP-1		FAN COIL SERVES FC-1		-M 00	DB (° 55	°F) W	B (°F) 54	CIRC	UITS	REFR TYPE R-410	(MBH)		NOTES	
	HP-1 HP-2 HP-3		FC-1 FC-2 FC-3	6	50 50 50	55 55 55	;	54 54 54		1 1 1	R-410 R-410 R-410	17.8		1 1 1	
	HP-3 HP-4		FC-3 FC-4		50 50	55 55		54 54		1	R-410 R-410			1	
DE	CASE	ED CO	DOLING C	OIL IN	FAN	COIL	UNIT.								
) GRILI	LES													
D	MAX	NC	DAMPER	(Y/N)	FRAM	ЛЕ ТҮР	PE	FINISH	ł	BAS	IS OF E	DESIGN		NOTES	
	20 20		N N			RFACE RFACE		WHITE WHITE				00, 12X12 00, 24X24		1, 3, 4 1, 3, 4	
	20 20		N			AY-IN AY-IN		WHITE WHITE				00, 12X12 00, 24X24		1, 4	NOT DISCLOSED
	 15 25	5	Y N		SU	RFACE	Ξ	WHITE	<u> </u>	KR	UEGER	880H	,	1, 2, 3, 4 1, 4	NOT DISCLOSED
	FAN SP	N DA		/=		 								NOTES	
1 \ 0.:	WG)	-AN F 70	0 DIRE	PE	ATTS 20	6 FLA			SONE	ES		ECK SP-B		1-5	
E C(SE CON DETAII ONTRA	L. ACTC	R.	0.1	A • • •	\ D • -									
	I ISOLA SEB.	4110I 	N HANGIN	,KIT ى	AND	BACK		DAMP	′ER.	_	_		_		
— Н			DR ELEC PH AMF		,	MCA	TOT AM		IOCP	WEIG (LB		DTES AF		NUMBER	
1 1	208 208	8 8	1 1.7 1 1.3	, - } -	-	47.4 45	-		60 45	90 120) / / / 0 1-	6, 9	901	349014 10672	
1 1	208 208		1 1.3 1 4.1			45 94	-		45 100	120 150		·6, 9 ·6, 9		22637 27467	
	RICAL							DEE		PER.			ייםר .		
	MCA N 12	20		8.5		16	COP 	REF. R410A	W1	Г.(LBS) 170	1-	-6	2018	NUMBER 349014	
	12 14 18	20 25 30	 	8.5 8.5 8.5		15 15 15	 	R410A R410A R410A		170 180 220	1- 1- 1-	-6	992	10672 22637 27467	
1	-					I	I_					1	2]	
					EI E1		AL DAT	Δ							
AL		ENS. AP.	TOTAL	v			мот	OR HP	ВА	ASIS O	F DESI		IGH1 BS)	NOTES	
>. ⊣) 1	(M	IBH)	EFF.		Pł		FA	EA							
4 ; ;	4	7.0 4.5 4.5	67% 72% 72%	120 120 120	1	3.3	3 0.1	0.2 0.1 0.1	RE	NEWA	IRE EV IRE EV	240 7	30 70 70	1-9 1-9 1-9	
]		4.5 2.0	72% 78%	120 120	1	_		0.1	-		IRE EV		70 70	1-9 1-9	Project Number: 2017
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															Sheet Name: MECHANICAL DETAILS &
															SCHEDULES

	VENT	TLATION	REQL	JIREME								RE	QUIRED	
		ROOM /			(SC	IZE Q FT)	SC	FM / Q FT	PE		CFM / PERSON	AI	RFLOW (CFM)	
	SEC		DOR H	ALLS	16	367 619	0	.06 .06		0	0		142 97	
		ATHERIN	IG RO		9	619 122 100	0	.06 .06 .30	_	0 30 15	0 7.5		97 280 210	
		LIBRA	ARY		9	39	0	.06	_	30	0 5		206	
		ANAGER' MULTIPU STOR	RPOS		7	25 '00 25	0	.06 .06 .12		1 15 0	5 5 0		13 117 15	
UN					· · · · ·									
	MARK EUH-1	LOCA ⁻			=м 20	ELEC KW 1.8	TRIC C	,	ATA PH 1		S OF DESI		NOTES 1, 2, 3	
	EUH-2 EUH-3	VEST	#2	1(00 00 00	1.8 1.8	12	0	1 1	QMA	RK CW-318 RK CW-318	30F	1, 2, 3 1, 2, 3	
	EUH-4 EUH-5	STAIF STAIF	R #2	1(00 00	3.0 3.0	20 20	8	1 1	QMA	RK CW-340 RK CW-340)4F	1, 2, 3 1, 2, 3	
	EUH-6 DTES: PROVIE			1		3.0	20 AND IN	I	1 RAI TH	1	RK CW-340 тат	J4F	1, 2, 3	
2.	. PROVIE	DE WITH	DISCO	NNEC	T SWI	TCH.					LAR TO MC	DDEL	#CWH3S2.	
			051	. MA	X PD		SIZE (II	N)					NOTEO	
MARK	ER'	V-1	CFN 280		H ₂ 0)	W 24	H 18	D 4	UNIT	ED ENE	RTECH FL	-D-4	NOTES	
L-2 L-3 L-4	ER' ER' ER'	V-3	210 210 150	C).05).05).05	18 18 12	18 18 12	4 4 4	UNIT	ED ENE	RTECH FL RTECH FL RTECH FL	-D-4	1 1 1	
L-5	CORRI		150 100).05).05	12	12 12	4	-		RTECH FL		1	
<u> </u>	ROVIDE WI	TH INSE	CT SC	REEN.										
К	TCHING	FAN COI				EAT		NI	J. OF	REFR	TOTAL			
	HP-1	SERVES		FM -	DB (°f 55		/B (°F) 54			REFR TYPE R-410	(MBH)		NOTES	
	HP-2 HP-3	FC-2 FC-3	7	350 750	55 55		54 54		1	R-410 R-410	23.8		1	
	HP-4	FC-4		250	55 COIL L	 NIIT	54		1	R-410	36		1	
	GRILLES					, I I I I .								
C PD .)	MAX NC	DAMPER	(Y/N)	FRAM	E TYP	E	FINISH	1	BAS	SIS OF D	ESIGN	N	DTES	
	20 20	N			FACE		WHITE				00, 12X12		, 3, 4	
	20 20 20	N N N		LA	Y-IN Y-IN		WHITE	-	KRUE	GER 14(00, 21721 00, 12X12 00, 24X24		1, 4 1, 4	NOT DISCLOSED
	15 25	Y N		SUR	FACE		WHITE		KR		880H	1,	2, 3, 4 1, 4	NOT DISCLOSED
ESI (IN W 0.2	/G) FAN F		PE	/ATTS 20	FLA 0.65			SON	ES		DF DESIGN ECK SP-B9		NOTES	
SEE D AL CO	E CONTRO DETAIL. INTRACTO ISOLATION SEB.	R.	IG KIT	, AND	BACKI	DRAFT	DAMF	PER.						
	VOLT			VV	MCA	TOT AM	PS	ИОСР 60		GHT S) NC			IMBER	
1 1 1	208 208 208	1 1. 1 1. 1 1. 1 1.	3		47.4 45 45	-		60 45 45	90 12 12	0 1- 0 1-	6, 9 6, 9	20184 9010 9922	672 637	
1	208	1 4.	1		94	-		100	15	υ 1-	6, 9	9127	467	
	MCA MOP	W FL	A	PF SEI		OP	REF.	W	OPER. T.(LBS	<i>,</i>			IMBER	
1 1	122012201425	 	· 8.	5 1: 5 1:	5	 	R410A R410A R410A	\ \	170 170 180	1- 1- 1-	6 6	20184 9010 9922	672 637	
1	18 30		. 8.	5 1	5		R410A		220	1-	6	9127	467	
													1	
OT ^ '	OFNO			ELEC							\\//=-1	GHT		
OTAL CAP. MBH)	SENS. CAP. (MBH)	TOTAL EFF.	V	PH	FLA		EA	B	ASIS C	F DESI		GHT 3S)	NOTES	
10.4 6.6	7.0 4.5	67% 72%	120 120) 1	3.3 3.3	0.1	0.1	RE	ENEWA	AIRE EV	240 7	60 70	1-9 1-9	
6.6 2.9	4.5 2.0	72% 78%	120 120		3.3 1.5	_	_	-		AIRE EV:		'0 '0	1-9 1-9	Project Number: 2017
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														Sheet Name: MECHANICAL DETAILS & SCHEDULES

 				-			-	
	MATCHING	FAN COIL	0514	EA	٩T	NU. OF	REFR	
MARK	HP	SERVES	CFM	DB (°F)	WB (°F)	CIRCUITS	TYPE	CAP (N
CC-1	HP-1	FC-1	600	55	54	1	R-410	
CC-2	HP-2	FC-2	650	55	54	1	R-410	1
CC-3	HP-3	FC-3	750	55	54	1	R-410	2
CC-4	HP-4	FC-4	1250	55	54	1	R-410	

		VEN	ITILATION F	REQUIREM	ENTS (A	ASHRAE)							
			ROOM / A	AREA	SIZ (SQ	ZE FT)	CFM / SQ FT	PEC	OPLE	CFM / PERSON	REQUIRED AIRFLOW (CFM)		
			COND FLO		23 16	67 19	0.06 0.06		0 0	0	142 97		
			HIRD FLOO GATHERING	B ROOM	-	22	0.06 0.06	;	0 30	0 7.5	97 280		
			EXERC LIBRAF	RY	93	00 39	0.30 0.06		15 30	0 5	210 206		
		N	MANAGER'S MULTIPUR	POSE	70	25 00	0.06		1 15	5	13 117		
	Γι		STORA ER - ELECT		12	25	0.12		0	0	15		
		MARK	LOCATI		FM –		V	PH		S OF DESIGI			
	-	EUH-1 EUH-2	VEST	#2 1	00	1.8	120 120	1	QMAF	RK CW-3180 RK CW-3180 RK CW-3180	F 1, 2, 3		
	-	EUH-3 EUH-4 EUH-5	VEST : STAIR STAIR	#1 1	00 00 00 00 00 00 00 00 00 00 00 00 00	3.0	120 208 208	1 1 1	QMAF	RK CW-3180 RK CW-3404 RK CW-3404	F 1, 2, 3		
		EUH-6 OTES:	MECH/E		00		208	1		RK CW-3404			
	-	1. PROV 2. PROV	IDE WITH M IDE WITH D IDE WITH 2'	ISCONNEC	CT SWIT	CH.					DEL #CWH3S2.		
	LOUV												
	MAR		JSE	CFM (II	AX PD N H ₂ 0)	SIZE	I D				NOTES		
	L-1 L-2 L-3	El	RV-1 RV-2 RV-3	210	0.05 0.05 0.05	24 18 18 18 18 18	8 4	UNIT	ED ENE	RTECH FL-D RTECH FL-D RTECH FL-D	0-4 1		
	L-4 L-5	El	RV-4 RIDORS	150	0.05 0.05	12 12 12 12	2 4	UNIT	ED ENE	RTECH FL-D RTECH FL-D	0-4 1		
	<u>NOTE</u> 1.		VITH INSEC	T SCREEN									
	COIL - DX]		
		ATCHING HP	FAN COIL SERVES	CFM	DB (°F	EAT		J. OF CUITS	REFR TYPE	TOTAL CAPACITY (MBH)	NOTES		
	CC-1 CC-2	HP-1 HP-2	FC-1 FC-2	600 650	55 55	54 54		1	R-410 R-410	17 17.8	1		
	CC-3 CC-4	HP-3 HP-4	FC-3 FC-4	750 1250	55 55	54 54		1	R-410 R-410	23.8 36	1		
	<u>NOTES:</u> 1. PROVID			DIL IN FAN	COIL UI	NIT.							
	, REGISTERS, AN												
D-1	(IN W.G.)	MAX NC	DAMPER (IE TYPE	E FIN			IS OF D	ESIGN 0, 12X12	NOTES 1, 3, 4		
D-1 D-2 D-3	0.10	20 20 20	N N N	SUF	RFACE RFACE AY-IN	WH WH WH	ITE	KRUE	GER 140	0, 12X12 0, 24X24 0, 12X12	1, 3, 4 1, 3, 4 1, 4		
D-3 D-4 R-1	0.10	20 20 15	N N Y	LA	AY-IN AY-IN RFACE	WH WH WH	ITE	KRUE		0, 24X24	1, 4 1, 4 1, 2, 3, 4	NOT DISCLOSE	D
G-1 G-2	0.05	25 15	N N	SUF	RFACE	WH WH	ITE	KRL	JEGER S	S480H	1, 4		
FC EXH FC EXH WITH THER INE RADIATIO HT SWITCH E RAL DISCON CAP SIMILAF HE KW ST T 10	TYPE CFM (IN AUST 75 0 AUST 75 0 AMAL CUT-OFF FU ON DAMPER, SEE BY ELECTRICAL C INECT, VIBRATION R TO XVENT BOX EATER ELEC AGES VOLT 1 208 1	21 7 SE CONTR DETAIL. ONTRACT N ISOLATIO 6SEB. MOT VOLT 208	RPM DRIV TYP 00 DIREC OR. DN HANGING	E WATTS CT 20 G KIT, AND	0.65 BACKD MCA 47.4	120	MOCP 60	ES 2 GI 2 GI 2 UEIC (LB3 90	REENHE	-9 20	RI NUMBER 01849014		
T 7.21 T 7.21 T 14.4	1 208 1 1 208 1 1 208 1	208 208 208	1 1.3 1 1.3 1 4.1		45 45 94	- - -	45 45 100	120 120 150) 1-6	3, 9 9	0010672 0922637 0127467		
<u> </u>				<u> </u>]		
LL.													
INDOOR EA (DB/WB)(°F		MCA MOR	기 W FLA	_		OP RE		OPER. /T.(LBS)	_				
80/67 80/67 80/67	208 1 208 1 208 1 208 1	12 20 12 20 14 25		8.5 1 8.5 1	15 -	R41 R41 R41	10A 10A	170 170 180	1-6	3 9	01849014 0010672 0922637		
80/67	208 1	14 25 18 30			_	R41 R41		180 220	1-6		127467		
HEATING S	SEASON			ELEC	TRICAL	DATA							
VENTI	ILATOR AT CAP.	CAP.		V PH		MOTOR		ASIS O	F DESIG	SN WEIG			
5 46.8	WB (°F) (MBH) 38.5 10.4	7.0	67%	120 1		0.2 0			IRE EV3				
5 50.4 5 50.4 5 54.9	41.3 6.6 41.3 6.6 44.6 2.9	4.5 4.5 2.0	72% 72% 78%	120112011201	3.3 3.3 1.5	0.1 0).1 RI	ENEWA	IRE EV2 IRE EV2 IRE EV2	240 70	1-9		-
<u> </u>	2.9	2.0	, 0 /0		<u> </u>		KI	<u>v</u> vvA	. LVZ	10	<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	Project Number: 201 Drawn by: AN	w
												Checked by: RDI Sheet Name:	
												MECHANICAL DETA SCHEDULES	.1L
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									VEN				SIZE	CFM					
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	R RETURN THROUGH WALL.	ER RETURN THROUGH WALL. TAIR TEMP AMB AIR TEMP INDOOR EAT ELECTRICAL TIG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH MCA MOP W FLA HSPF SEER COP REF. OPER. 37 95 80/67 208 1 12 20 8.5 16 R410A 170 1-6 201849014 37 95 80/67 208 1 12 20 8.5 15 R410A 170 1-6 9010672 37 95 80/67 208 1 14 25 8.5 15 R410A 180 1-6 9922637	ER RETURN THROUGH WALL. FAIR TEMP AMB AIR TEMP INDOOR EAT ELECTRICAL ITG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH MCA MOP W FLA HSPF SEER COP REF. OPER. 37 95 80/67 208 1 12 20 8.5 16 R410A 170 1-6 201849014 37 95 80/67 208 1 12 20 8.5 15 R410A 170 1-6 9010672 37 95 80/67 208 1 14 25 8.5 15 R410A 180 1-6 9922637	IRTEMP[ANB AIR TEMP] INDOOR EAT ELECTRICAL 3(FETURN THROUGH WALL. 1(FETWRN THROUGH WALL.	500 0.25 1/3 DIREC 550 0.50 1/4 DIREC	Г 10 Г 7.21	1 208 1 208	1	208 208	1 1.7 1 1.3	/ - 3 -	47.4 45	-	6	60 15	90 · 120 1-	1-9 20 ·6, 9 9	9010672	
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VINCE HEATING SEASON ELECTRICAL DATA MOTOR HP BASIS OF DESIGN WEIGHT (LBS) NOTES VTER WINTER VENILATOR LAT TOTAL CAP. (MBH) SENS. CAP. (MBH) TOTAL CAP. (MBH) V PH FLA MOTOR HP BASIS OF DESIGN WEIGHT (LBS) NOTES VB (*f) DB (*f) WB (*f) VB (*f) VB (*f) 70 35 50.4 41.3 6.6 4.5 72% 120 1 3.3 0.1 0.1 RENEWAIRE EV240 70 1.9 -10 70 35 50.4 41.3 6.6 4.5 72% 120 1 3.3 0.1 0.1 RENEWAIRE EV240 70 1.9 -10 70 35 50.4 41.3 6.6 4.5 72% 120 1 3.3 0.1 0.1 RENEWAIRE EV240 70 1.9 -10 70 35 54.9 44.6 2.9 2.0 78% 120 1 3.3 0.1	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$																MECHANICAL DETAI
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RADIATION DAMPER

FAN COI	LUNIT																				
MARK	MANUFACTURER	MODEL NO.	MATCHED			FAN	DRIVE		HEATER	RELEC		MO	tor ei	EC		MCA	TOTAL	MOCP	WEIGHT	NOTES	
MAINN	MANULACTORER	MODEL NO.	HP UNIT		(IN.WG)	HP		kW	STAGES	VOLT	PH	VOLT	PH	AMPS	W	MCA	AMPS	WOOF	(LBS)	NOTES	
FC-1	ADP	SK792510	HP-1	600	0.25	1/3	DIRECT	10	1	208	1	208	1	1.7		47.4	-	60	90	1-9	
FC-2	TRANE	TEM4A0B24S21	HP-2	650	0.50	1/4	DIRECT	7.21	1	208	1	208	1	1.3		45	-	45	120	1-6, 9	
FC-3	TRANE	TEM4A0B24S21	HP-3	750	0.50	1/4	DIRECT	7.21	1	208	1	208	1	1.3		45	-	45	120	1-6, 9	
FC-4	TRANE	TEM4A0C42S21SA	HP-4	1250	0.50	1/2	DIRECT	14.4	1	208	1	208	1	4.1		94	-	100	150	1-6, 9	

PROVIDE SINGLE CIRCUIT FOR ELECTRIC HEAT. 2. PROVIDE WITH SECONDARY OVERFLOW SWITCH.

PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT. 4. PROVIDE WITH HIGH EFFICIENCY ECM MOTOR.

5. FACTORY INSTALLED HEATER PACKAGE. 6. PROVIDE WITH INTEGRAL CIRCUIT BREAKER(S).

7. PROVIDE WITH (26" x 38") DECORATIVE WALL PANEL OVER 8. PROVIDE WITH PULL-OUT DISCONNECT. 9. ENERGY STAR RATED UNIT.

ATCHED	HP HEATING	INDOOR AIR	AMB AIR TEMP	AMB AIR TEMP	INDOOR EAT	ELECTRICAL						цере	OFFD			OPER.	NOTES	
AHU	CAPACITY (MBH)	(°F)	HTG (°F)	COOLING (°F)	(DB/WB)(°F)	VOLTS PH		H MCA MOP		W	FLA	порг	SEER	COP	REF.	WT.(LBS)	NOTES	
FC-1	17	65	37	95	80/67	208	1	12	20			8.5	16		R410A	170	1-6	
FC-2	16.7	65	37	95	80/67	208	1	12	20			8.5	15		R410A	170	1-6	
FC-3	23.0	65	37	95	80/67	208	1	14	25			8.5	15		R410A	180	1-6	Γ
FC-4	34.6	65	37	95	80/67	208	1	18	30			8.5	15		R410A	220	1-6	
	AHU FC-1 FC-2 FC-3	AHU CAPACITY (MBH) FC-1 17 FC-2 16.7 FC-3 23.0	AHU CAPACITY (MBH) (°F) FC-1 17 65 FC-2 16.7 65 FC-3 23.0 65	AHU CAPACITY (MBH) (°F) HTG (°F) FC-1 17 65 37 FC-2 16.7 65 37 FC-3 23.0 65 37	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) FC-1 17 65 37 95 FC-2 16.7 65 37 95 FC-3 23.0 65 37 95	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) FC-1 17 65 37 95 80/67 FC-2 16.7 65 37 95 80/67 FC-3 23.0 65 37 95 80/67	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) VOLTS FC-1 17 65 37 95 80/67 208 FC-2 16.7 65 37 95 80/67 208 FC-3 23.0 65 37 95 80/67 208	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH FC-1 17 65 37 95 80/67 208 1 FC-2 16.7 65 37 95 80/67 208 1 FC-3 23.0 65 37 95 80/67 208 1	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH MCA FC-1 17 65 37 95 80/67 208 1 12 FC-2 16.7 65 37 95 80/67 208 1 12 FC-3 23.0 65 37 95 80/67 208 1 14	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH MCA MOP FC-1 17 65 37 95 80/67 208 1 12 20 FC-2 16.7 65 37 95 80/67 208 1 12 20 FC-3 23.0 65 37 95 80/67 208 1 14 25	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH MCA MOP W FC-1 17 65 37 95 80/67 208 1 12 20 FC-2 16.7 65 37 95 80/67 208 1 12 20 FC-3 23.0 65 37 95 80/67 208 1 14 25	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH MCA MOP W FLA FC-1 17 65 37 95 80/67 208 1 12 20 FC-2 16.7 65 37 95 80/67 208 1 12 20 FC-3 23.0 65 37 95 80/67 208 1 14 25	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH MCA MOP W FLA HSPF FC-1 17 65 37 95 80/67 208 1 12 20 8.5 FC-2 16.7 65 37 95 80/67 208 1 12 20 8.5 FC-3 23.0 65 37 95 80/67 208 1 14 25 8.5	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH MCA MOP W FLA HSPF SEER FC-1 17 65 37 95 80/67 208 1 12 20 8.5 16 FC-2 16.7 65 37 95 80/67 208 1 12 20 8.5 15 FC-3 23.0 65 37 95 80/67 208 1 14 25 8.5 15	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH MCA MOP W FLA HSPF SEER COP FC-1 17 65 37 95 80/67 208 1 12 20 8.5 16 FC-2 16.7 65 37 95 80/67 208 1 12 20 8.5 16 FC-3 23.0 65 37 95 80/67 208 1 14 25 8.5 15	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH MCA MOP W FLA HSPF SEER COP REF. FC-1 17 65 37 95 80/67 208 1 12 20 8.5 16 R410A FC-2 16.7 65 37 95 80/67 208 1 12 20 8.5 16 R410A FC-3 23.0 65 37 95 80/67 208 1 14 25 8.5 15 R410A	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH MCA MOP W FLA HSPF SEER COP REF. WT.(LBS) FC-1 17 65 37 95 80/67 208 1 12 20 8.5 16 R410A 170 FC-2 16.7 65 37 95 80/67 208 1 12 20 8.5 16 R410A 170 FC-3 23.0 65 37 95 80/67 208 1 14 25 8.5 15 R410A 170 FC-3 23.0 65 37 95 80/67 208 1 14 25 8.5 15 R410A 180	AHU CAPACITY (MBH) (°F) HTG (°F) COOLING (°F) (DB/WB)(°F) VOLTS PH MCA MOP W FLA HSPF SEER COP REF. WT.(LBS) NOTES FC-1 17 65 37 95 80/67 208 1 12 20 8.5 16 R410A 170 1-6 FC-2 16.7 65 37 95 80/67 208 1 12 20 8.5 16 R410A 170 1-6 FC-3 23.0 65 37 95 80/67 208 1 14 25 8.5 15 R410A 170 1-6 FC-3 23.0 65 37 95 80/67 208 1 14 25 8.5 15 R410A 180 1-6

NOTES: 1. PROVIDE REFRIGERANT LINE SET SIZED PER MANUFACTURERS RECOMMENDATIONS.

4. PROVIDE 2" X 2" X 2" PRE-CUT NEOPRENE PADS, 4 PER HEAT PUMP UNIT.

COOLING SEASON							HEATING SEASON											RICAL	DATA			
SUM RET	MER URN			TOTAL SENS. CAP. CAP.		TOTAL	WINTER AMBIENT		WINTER RETURN		VENTILATOR LAT		TOTAL CAP.	SENS. CAP.	TOTAL	V	PH		MOTOR HP		BASIS OF DESIGN	
8 (°F)	HUM	DB (°F)	WB (°F)	(MBH)	(MBH)	EFF.	DB (°F)	WB (°F)	DB (°F)	ним	DB (°F)	WB (°F)	(MBH)	(MBH)	EFF.	V	гп	ILA	FA	EA		
75	50	78.5	58.1	-	1.1	47%	-10	-10	70	35	46.8	38.5	10.4	7.0	67%	120	1	3.3	0.2	0.2	RENEWAIRE EV300	
75	50	77.9	58.6	-	0.7	53%	-10	-10	70	35	50.4	41.3	6.6	4.5	72%	120	1	3.3	0.1	0.1	RENEWAIRE EV240	
75	50	77.9	58.6	-	0.7	53%	-10	-10	70	35	50.4	41.3	6.6	4.5	72%	120	1	3.3	0.1	0.1	RENEWAIRE EV240	
75	50	77.3	59.3		0.9	59%	-10	-10	70	35	54.9	44.6	2.9	2.0	78%	120	1	1.5	0.1	0.1	RENEWAIRE EV200	

9. COOLING SEASON CAPACITY ONLY CONSIDERS SENSIBLE LOADS DUE TO DRY OUTDOOR CONDITIONS, PER MANUFACTURER.