	MECHANIC	CAL LEGEN	(NOT ALL SYMBOLS MAY BE USED)			MECHANICAL	LEGEND	(NOT ALL SYMBOLS MAY BE
	DUC	TWORK				PIPING		
SYMBOL / ABBREVIATION	DESCRIPTION	SYMBOL / ABBREVIATION	DESCRIPTION	SYMBOL /	ABBREVIATION	DESCRIPTION	SYMBOL / ABBREVIATION	DESCRIPTION
	RECTANGULAR SUPPLY DUCT - UP	12"X12" FACE 24"X24" FACE		—CHR—	CHR	CHILLED WATER RETURN		GATE VALVE
	RECTANGULAR SUFFLY DUCT - UF	sx	SUPPLY DIFFUSER AND AIR QUANTITY. BLANK OUTS INDICATE THROW IN THIS DIRECTION.	—CHS—	CHS	CHILLED WATER SUPPLY	• <u> </u>	BALL VALVE
	RECTANGULAR SUPPLY DUCT - DOWN		(X DENOTES TYPE. SEE NOTE 1 OF AIR DISTRIBUTION DEVICE SCHEDULE)	—PCHR—	PCHR	PRIMARY CHILLED WATER RETURN	h F	BUTTERFLY VALVE
			RETURN GRILLE AND AIR QUANTITY	—PCHS—	PCHS	PRIMARY CHILLED WATER SUPPLY		CONTROL VALVE, 2 WAY
	RECTANGULAR RETURN / EXHAUST DUCT - UP		(X DENOTES TYPE) EXHAUST GRILLE AND AIR QUANTITY					
			(X DENOTES TYPE) LAMINAR FLOW SUPPLY DIFFUSER AND AIR	—CWR— —CWS—	CWR CWS	CONDENSER WATER RETURN CONDENSER WATER SUPPLY		CHECK VALVE - SWING CHECK VALVE - WAFER
	RECTANGULAR RETURN / EXHAUST DUCT - DOWN	$\sum_{100SX} \sum_{100SX}$	FLOW QUANTITY (X DENOTES TYPE)	—HWR—	HWR	HEATING WATER RETURN		STRAINER
			LINEAR SLOT DIFFUSER AND AIR FLOW QUANTITY	—HWS—	HWS	HEATING WATER SUPPLY		STRAINER & BLOWDOWN VAI
	ROUND SUPPLY DUCT - UP	100	SCREENED OPENING AND AIR FLOW QUANTITY	— D —		DRAIN LINE		BALANCING VALVE
	ROUND SUPPLY DUCT - DOWN	AT-XX-XX	SOUND ATTENUATOR	—HPS—	HPS	HIGH PRESSURE STEAM		PRESSURE REDUCING VALVE
			HEATING COIL WITH IDENT.	—HPR—	HPR	HIGH PRESSURE CONDENSATE RETURN	<u>À</u>	OS & Y VALVE
	ROUND RETURN / EXHAUST DUCT - UP		ELECTRIC HEATING COIL WITH IDENT.	—MPS—	MPS	MEDIUM PRESSURE STEAM	Å 4	PRESSURE RELIEF VALVE
				—MPR—	MPR	MED. PRESSURE CONDENSATE RETURN		
	ROUND RETURN / EXHAUST DUCT - DOWN		AIR TERMINAL UNIT WITH IDENT. & MAX CFM			LOW PRESSURE STEAM		UNION PIPE GUIDE
				— LPR— — PCR—	PCR	PUMPED CONDENSATE RETURN	× ¥	PIPE GOIDE PIPE ANCHOR
	OVAL SUPPLY DUCT - UP		AIR TERMINAL UNIT WITH IDENT., MIN AND MAX CFM	–FSHRR–	FSHRR	FOOD SERVICE HEAT REJECTION RETURN		FLEXIBLE CONNECTOR
				-FSHRS-	FSHRS	FOOD SERVICE HEAT REJECTION SUPPLY		THERMOMETER WELL
	OVAL SUPPLY DUCT - DOWN		CHILLED BEAM WITH IDENT. & CFM	—GCHS—	GCHS	GLYCOL CHILL WATER SUPPLY	 	PETE'S PLUG
	OVAL RETURN / EXHAUST DUCT - UP	CFM ¹	AIRFLOW TRANSFER RATE AT DOOR	—GCHR—	GCHR	GLYCOL CHILL WATER RETURN	IID ID	VALVE WITH BLIND FLANGE
				—GHWS—	GHWS	GLYCOL HEATING WATER SUPPLY		CAP/PLUG
	OVAL RETURN / EXHAUST DUCT - DOWN	AD	ACCESS DOOR	—GHWR—	GHWR	GLYCOL HEATING WATER RETURN	Π	STEAM TRAP
		AFF	ABOVE FINISHED FLOOR	—GTS—	GTS	GEOTHERMAL SUPPLY	T _{EOM}	END OF MAIN DRIP
	FIRE DAMPER	ATC	AUTOMATIC TEMPERATURE CONTROL PANEL	—GTR—	GTR	GEOTHERMAL RETURN		PRESSURE REDUCING STAT
		BDD		—HPWS—	HPWS	HEAT PUMP WATER SUPPLY		PRESSURE GAUGE
	SMOKE DAMPER	BOD BOP	BOTTOM OF DUCT BOTTOM OF PIPE	—HPWR— —FOR—	FOR	HEAT PUMP WATER RETURN FUEL OIL RETURN	PRV	THERMOMETER PRESSURE REDUCING VALV
		CS	COLD DECK SUPPLY	—FOS—	FOS	FUEL OIL SUCTION	PR	PRESSURE RELIEF VALVE
	COMBINATION FIRE/SMOKE DAMPER	DDC	DIRECT DIGITAL CONTROL	—FOV—	FOV	FUEL OIL VENT	PRS	PRESSURE REDUCING STAT
		DE	DISHWASHER EXHAUST	-RHGB-	RHGB	REFRIGERANT HOT GAS BYPASS		
	MANUAL VOLUME DAMPER	EA	EXHAUST AIR		RL	REFRIGERANT LIQUID		
	MOTORIZED DAMPER	FD	FIRE DAMPER	RS	RS	REFRIGERANT SUCTION		
		FSD	COMBINATION FIRE/SMOKE DAMPER	RV	RV	RELIEF VENT		
	AIR FLOW MONITORING STATION	GE	GREASE EXHAUST			DIRECTION OF FLOW		
		HE	HOOD EXHAUST			REDUCER		
	DIFFERENTIAL PRESSURE SENSOR	HS	HOT DECK SUPPLY ISOLATION EXHAUST			SLOPE PIPE DOWN IN THIS DIRECTION		
		LE	LAB EXHAUST			ELBOW DOWN		
	STATIC PRESSURE SENSOR	ML	MARINE LIGHT	TEE F		BRANCH PIPE CONNECTION		
		MVD	MANUAL VOLUME DAMPER			TEE - OUTLET DOWN		
	CARBON DIOXIDE DETECTOR	OA	OUTSIDE AIR			TEE - OUTLET UP		
	CARBON MONOXIDE DETECTOR	OBD	OPPOSED BLADE DAMPER					
		PE	PHARMACY EXHAUST	Γ	МЕ	CHANICAL DEMO		TES
	DUCT SENSOR	RA	RETURN AIR					ILJ
		SA SD	SUPPLY AIR SMOKE DAMPER					
	TRAVERSE DUCT TEST AND BALANCE	SD	SCREENED OPENING			NT AS FOLLOWS: (OAHU-1 & AH-T3). RECOR		
¥		SWR	SIDEWALL REGISTER			JECT AREAS. RECORD AND SUBMIT TO ARC		LLES, REGISTERS, AND
	HUMIDIFIER WITH IDENTIFICATION	SWG	SIDEWALL GRILLE			ONTRACTOR'S RESPONSIBILITY TO VERIFY T KISTING DUCT AND PIPING, ETC. BEFORE DE		
		TG	TRANSFER GRILLE		DISCREPANCIES B	ETWEEN PLANS AND ACTUAL FIELD CONDITION OF DEMOLITION WORK.		
	TRANSITION	UNO	UNLESS NOTED OTHERWISE		D. REMOVE THE INDIC	ATED HVAC ITEMS AS SHOWN ON PLANS. TH		
					RELATED MATERIA	L. IF THE OWNER WISHES TO UTILIZE THE EX O AN ON-SITE LOCATION DESIGNATED BY TH	KISTING EQUIPMENT, CONTI E OWNER. ALL EQUIPMENT	RACTOR SHALL MOVE REFUSED BY OWNER
			MOUNTED CONTROL DEVICES		SHALL BE DISPOSE SHALL NOT BE ABA	D OF IN A MANNER ACCEPTABLE BY LOCAL . NDONED IN PLACE.	URISDICTION. ITEMS SHOV	VN TO BE REMOVED
	RADIUS ELBOW	0				TIGHT ALL POINTS AT WHICH DUCTWORK IS		RK THAT WILL REMAIN.
		®	HUMIDISTAT OR HUMIDITY SENSOR PRESSURE MONITOR			AINING DUCTWORK TO MAINTAIN VAPOR BAF		
	SQUARE THROAT ELBOW WITH TURNING	-	CARBON DIOXIDE SENSOR		F. CAP AND SEAL WA MAINTAIN VAPOR E	TER TIGHT ALL POINTS WHICH PIPING IS REM ARRIER.	IUVED. RE-INSULATE REMA	
	VANES		CARBON MONOXIDE SENSOR			IN WALLS WITH LIKE MATERIALS TO MAINTAII PIPING, ETC. HAVE BEEN REMOVED.	N THE INTEGRITY OF THE W	ALL WHERE AIR
			MULTI-POINT MONITOR			LL VERIFY CLEARANCE REQUIREMENTS AND		W DUCTWORK BEFORF
т п п	BRANCH DUCT CONNECTION	(MPM-X)			FABRICATION BEG	NS AS RISES AND DROPS MAY BE NECESSA	RY DUE TO EXISTING FIELD	CONDITIONS.
	RECTANGULAR OR ROUND BRANCH. RECTANGULAR TRUNK. MVD REQUIRED	(MPM-X) (EPO)	EMERGENCY POWER OFF					
	RECTANGULAR OR ROUND BRANCH. RECTANGULAR TRUNK. MVD REQUIRED TO AIR DEVICES		EMERGENCY POWER OFF		AND DUCT SMOKE	LL VERIFY ALL EXISTING TO REMAIN FIRE, SM DETECTORS IN THE PROJECT AREA ARE IN F	ROPER WORKING CONDITI	
	RECTANGULAR OR ROUND BRANCH. RECTANGULAR TRUNK. MVD REQUIRED		EMERGENCY POWER OFF		AND DUCT SMOKE NOTIFY ENGINEER	DETECTORS IN THE PROJECT AREA ARE IN F AND OWNER OF ANY EXISTING EQUIPMENT F	PROPER WORKING CONDITIE	ON. CONTRACTOR TO
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NUMBER	
M001	MECHANICAL - LEG
M002	MECHANICAL - SCH
M003	MECHANICAL - SCH
M004	MECHANICAL - SCH
MD104	MECHANICAL - LEV
MD105	MECHANICAL - LEV
M102	MECHANICAL - LEVI
M103	MECHANICAL - LEVI
MH104	MECHANICAL - LEVI
MP104	MECHANICAL - LEVI
M105	MECHANICAL - LEVI
M106	MECHANICAL - ROC
MP107	MECHANICAL - OVE
M501	MECHANICAL - DET
M502	MECHANICAL - DET
M503	MECHANICAL - DET
M504	MECHANICAL - DET
M601	MECHANICAL - HW
M701	MECHANICAL - OAH
M702	MECHANICAL - EF C
M703	MECHANICAL - EX A

MECHANICAL GENERAL NOTES

- AND ALL BUILDING SERVICES.
- INSTALLED.
- OCCURS IN THE SYSTEM DESIGN.
- 230700 FOR DUCT INSULATION REQUIREMENTS.
- INSTALLED.

- MAINTAIN THE INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING.

- WITH NFPA 90A AND LOCAL CODES.
- IN ACCORDANCE WITH THE CEILING TYPE.
- COMPONENT PARTS.

- PANEL.
- INSTALLATION.

- BE MOUNTED 8" ABOVE FINISHED FLOOR TO THE BOTTOM OF THE FRAME.
- ASSESSMENT PLAN AND OTHER CONSTRUCTION RELATED PROCESSES.
- ROOF AND 72" ABOVE FINISHED GRADE.



A. COMMISSIONING SHALL BE PROVIDED FOR THIS PROJECT PER THE IECC CHAPTER C408. THE COMMISSIONING AND TEST AND BALANCE AGENT SHALL BE DESIGNATED BY THE OWNER AND BE RESPONSIBLE FOR TASKS SPECIFIED BY IECC C408.2.1 AS WELL AS THE TEST AND BALANCE SPECIFICATIONS. MECHANICAL, TEST AND BALANCE, CONTROLS, AND ELECTRICAL CONTRACTORS SHALL PROVIDE SUPPORT FOR THE COMMISSIONING AND TEST AND BALANCE AGENT AS REQUIRED BY THE COMMISSIONING PLAN.

SHEET INDEX

SHEET NAME
GENDS, INDEX & NOTES
HEDULES & NOTES
HEDULES
HEDULES
VEL 4 PLAN - DEMOLITION
VEL 5 PLAN - DEMOLITION
VEL 2 PLAN
VEL 3 PLAN
VEL 4 PLAN - DUCTWORK
VEL 4 PLAN - PIPING
VEL 5 PLAN - DUCT & PIPING
OF PLAN - DUCT & PIPING
'ERALL ROOF PLAN - PIPING
TAILS
TAILS
TAILS
TAILS
/ PIPING SCHEMATIC
HU CONTROLS
CONTROLS
AHU & REHEAT COIL CONTROLS

A. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS,

B. PROVIDE HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED EQUIPMENT. HOUSEKEEPING PAD SIZE AND FLOOR DRAIN LOCATIONS SHALL BE COORDINATED WITH THE SIZE AND LOCATION OF EXACT EQUIPMENT TO BE

C. STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE

D. ALL DUCTWORK SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS IN INCHES. REFER TO SPECIFICATION SECTION

E. MAJOR EQUIPMENT SHOWN ON THE PLANS AND ELEVATIONS ILLUSTRATE THE GENERAL ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EACH SYSTEM COMPONENT USING MANUFACTURER CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ADJUSTMENTS IN EQUIPMENT PLACEMENT AND CONNECTION IN ORDER TO ACCOMMODATE THE EXACT EQUIPMENT TO BE

F. SUPPORTS, ANCHOR BOLTS, AND HANGERS FOR ALL EQUIPMENT SPECIFIED IN DIVISION 23 SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT SPECIFIED IN DIVISION 23 SHALL BE PART OF THE SCOPE OF WORK OF DIVISION 23.

G. DIFFUSERS, REGISTERS, AND GRILLES SHOWN ON THE MECHANICAL DRAWINGS SHALL BE IN ACCORDANCE WITH THE AIR DISTRIBUTION DEVICE SCHEDULE AND SPECIFICATIONS. BRANCH DUCTS TO AIR DEVICES SHALL BE IN ACCORDANCE WITH THE SCHEDULE UNLESS NOTED OTHERWISE.

H. FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN DUCTWORK PENETRATIONS THROUGH RATED PARTITIONS, WALLS, BARRIERS, FLOORS, AND SHAFTS IN ACCORDANCE WITH THE PROJECT APPLICABLE BUILDING CODES. DAMPERS SHALL MEET THE REQUIREMENTS OF THE FIRE/SMOKE RATING AND BE "U.L." LABELED. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATIONS AND RATINGS OF ALL WALLS AND FLOORS.

PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRESAFED TO

J. DUCTWORK AND PIPING 4" AND LARGER ROUTED PARALLEL TO A RATED WALL SHALL BE INSTALLED WITH A MINIMUM 6" CLEARANCE TO ALLOW FOR INSPECTION OF WALL PENETRATIONS.

K. DUCTWORK STORED ON-SITE AWAITING INSTALLATION SHALL REMAIN PROPERLY SEALED AND PROTECTED. OPEN ENDS OF DUCTWORK SHALL BE CAPPED AND SEALED AFTER INSTALLATION.

L. SMOKE DETECTORS SHALL BE LOCATED AS INDICATED ON THE MECHANICAL PLANS AND IN CONFORMANCE

M. CEILING DIFFUSER LOCATIONS SHALL BE AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

N. CEILING DIFFUSERS, REGISTERS AND GRILLES SHALL BE FURNISHED WITH MOUNTING FRAMES AND FEATURES

O. PIPING CONNECTIONS TO AIR HANDLING UNIT COILS AND MAJOR EQUIPMENT TO BE FABRICATED WITH ISOLATION VALVES, FLANGES, AND/OR UNIONS POSITIONED TO ALLOW REMOVAL AND SERVICE OF THE

P. THERMOMETER WELLS AND PRESSURE GAUGES SHALL BE INSTALLED ON THE TOP OR SIDE OF HORIZONTAL PIPING IN ORDER TO RETAIN GAUGE FLUID AND BE EASILY READ FROM THE FLOOR.

Q. PROVIDE EXPANSION JOINT AT EACH PIPE AND DUCT CROSSING AN INTERIOR BUILDING EXPANSION JOINT.

R. PROVIDE MANUAL BALANCING/VOLUME DAMPERS AT ALL LOW PRESSURE BRANCH TAKE-OFFS TO DIFFUSERS AND GRILLES FROM SUPPLY, RETURN AND EXHAUST MAINS AND SUB-MAINS, AND AT ALL LOW PRESSURE DUCT SPLITS OR SUB-MAIN TAKE-OFFS. DAMPERS SHALL BE INSTALLED ABOVE AN ACCESSIBLE CEILING OR ACCESS

S. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES. REFER TO SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.

T. MAINTAIN ACCESSIBILITY OF ALL EQUIPMENT, DAMPERS, CONTROL PANELS, VALVES, AND OTHER DEVICES. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PRIOR TO

U. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE. V. WHERE WORK IN RENOVATED AREAS AFFECTS SYSTEMS IN OTHER AREAS OF THE BUILDING, THE CONTRACTOR

SHALL COORDINATE THIS WORK WITH THE OWNER. THIS WORK SHALL BE DONE TO FIT THE BUILDING OPERATIONAL SCHEDULE AND MINIMIZE DISRUPTION/ DISCOMFORT TO OCCUPIED AREAS. PROVIDE MINIMUM 48 HOURS WRITTEN NOTICE WITH ANTICIPATED DURATION OF OUTAGE.

W. COORDINATE WITH ALL TRADES FOR REQUIRED CEILING REMOVAL IN EXISTING BUILDING. NOTIFY THE ARCHITECT AND OWNER PRIOR TO COMMENCING REMOVAL. REMOVE ONLY THAT PORTION OF CEILING NECESSARY TO ACCESS AND COMPLETE THE NEW WORK. UPON COMPLETION OF THE ABOVE CEILING WORK, CEILING IS TO BE REINSTALLED. REPLACE ANY DAMAGED CEILING TILES WITH NEW TILES TO MATCH EXISTING. X. UNLESS OTHERWISE NOTED ON PLANS, LOW RETURN AIR AND LOW EXHAUST AIR GRILLES/REGISTERS SHALL

Y. CONTRACTOR SHALL COMPLY WITH THE ARCHITECT AND/OR OWNER PROVIDED INFECTION CONTROL RISK

Z. OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 25 FEET AWAY FROM PLUMBING VENTS, EXHAUST VENTS, AND OTHER SOURCES OF NOXIOUS FUMES AND/OR ODORS. INTAKES SHALL BE A MINIMUM OF 36" ABOVE FINISHED

MECHANICAL COMMISSIONING AND TEST AND BALANCE COORDINATION





(713) 784-8211 FAX: (713) 952-8655 www.ssr-inc.com **TEXAS FIRM REGISTRATION #: F-2874** SSR Project #: 20230850



AIR DISTRIBUTION DEVICE SCHEDULE

GENERAL NOTES:

1. PROVIDE MOUNTING STYLE BASED ON CEILING TYPE INDICATED ON THE REFLECTED CEILING PLANS.

2. ALL AIR DISTRIBUTION DEVICES SHALL HAVE A MAXIMUM NC RATING OF 25. 3. IN AREAS WITH LAY-IN CEILINGS, PROVIDE LISTED PANEL SIZE.

4. IN AREAS WITH HARD CEILINGS, PROVIDE SURFACE MOUNTED TYPE AIR DISTRIBUTION DEVICE AT LISTED FACE SIZE WITHOUT PANEL.

5. ALL AIR DEVICES LOCATED IN INACCESSIBLE HARD CEILINGS SHALL BE PROVIDED WITH VOLUME DAMPERS (YOUNG REGULATOR TYPE).

6. CONTRACTOR SHALL PAINT THE INTERIOR OF RETURN/EXHAUST SQUARE TO ROUND TRANSITIONS AND PLENUMS FLAT BLACK. 7. PROVIDE TRANSITION AS REQUIRED FOR DUCT AND DEVICE CONNECTION.

8. RUNOUT DUCTS FOR RETURN/EXHAUST GRILLES SIZED AT MAXIMUM VELOCITY OF 600 FPM.

9. CEILING DIFFUSERS ARE 4-WAY THROW UNLESS NOTED OTHERWISE. INCREASE NECK SIZE ONE STEP FOR 2-WAY THROW AND PROVIDE BLANK OFF PLATES AS REQUIRED. 10. FACE, NECK, AND RUNOUT SIZES FOR SIDEWALL GRILLES ARE THE NOMINAL DUCT SIZE.

11. REFER TO SPECIFICATION SECTION 233700 FOR ADDITIONAL REQUIREMENTS.

	CFM R	RANGE					FACE	NECK	RUNOUT	PANEL	
DESIGNATION	MIN.	MAX.	MANUFACTURER	MODEL	ТҮРЕ	LOCATION	SIZE (IN.)	SIZE (IN.)	SIZE (IN.)	SIZE (IN.)	REMARKS
R4/E4	0	90	TITUS	OMNI	SQ. PLAQUE FACE	CEILING	24x24	6 DIA.	6 DIA./8x4	24x24	С
R4/E4	95	190	TITUS	OMNI	SQ. PLAQUE FACE	CEILING	24x24	8 DIA.	8 DIA./10x6	24x24	С
R4/E4	195	320	TITUS	OMNI	SQ. PLAQUE FACE	CEILING	24x24	10 DIA.	10 DIA./12x8	24x24	С
R4/E4	325	450	TITUS	OMNI	SQ. PLAQUE FACE	CEILING	24x24	12 DIA.	12 DIA./14x10	24x24	С
R4/E4	455	650	TITUS	OMNI	SQ. PLAQUE FACE	CEILING	24x24	14 DIA.	14 DIA./16x10	24x24	С
R5/E5	0	17050	TITUS	30RFS	HEAVY DUTY FIXED BLADE 3/8 INCH BLADE SPACING - 38 DEG. FILTER GRILLE (PROVIDE NO FILTER)	SIDEWALL	SEE FLOOR PLANS	SEE FLOOR PLANS	SEE FLOOR PLANS	N/A	D,E
S4	0	90	TITUS	OMNI	SQ. PLAQUE FACE	CEILING	24x24	6 DIA.	6 DIA./8x4	24x24	B,C
S4	95	190	TITUS	OMNI	SQ. PLAQUE FACE	CEILING	24x24	8 DIA.	8 DIA./10x6	24x24	B,C
S4	195	320	TITUS	OMNI	SQ. PLAQUE FACE	CEILING	24x24	10 DIA.	10 DIA./12x8	24x24	B,C
S4	325	450	TITUS	OMNI	SQ. PLAQUE FACE	CEILING	24x24	12 DIA.	12 DIA./14x10	24x24	B,C
S4	455	650	TITUS	OMNI	SQ. PLAQUE FACE	CEILING	24x24	14 DIA.	14 DIA./16x10	24x24	B,C
S5	0	21700	TITUS	300R	DOUBLE DEFLECTION 3/4 INCH BLADE SPACING W/BLADES PARALLEL TO LONG DIMENSION	SIDEWALL	SEE FLOOR PLANS	SEE FLOOR PLANS	SEE FLOOR PLANS	N/A	B,C
S6	0	120	TITUS	TLF-AA	LAMINAR FLOW	CEILING	24x24	7 DIA.	8 DIA./8x6	24x24	A,C
S6	125	240	TITUS	TLF-AA	LAMINAR FLOW	CEILING	24x48	10 DIA.	10 DIA./12x8	24x48	A,C
S6	245	300	TITUS	TLF-AA	LAMINAR FLOW	CEILING	24x72	12 DIA.	12 DIA./14x10	24x60	A,C
S6	305	360	TITUS	TLF-AA	LAMINAR FLOW	CEILING	24x72	12 DIA.	12 DIA./14x10	24x72	A,C

ELECTRIC AIR TERMINAL UNIT SCHEDULE

GENERAL NOTES:

. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

120V CCT AND PILOT LIGHT. 3. AIRFLOW SWITCH

 DOOR DISCONNECT SWITCH . MAGNETIC CONTACTOR.

SCR PROPORTIONAL CONTROL

. MAXIMUM REQUIRED INLET STATIC PRESSURE SHALL NOT EXCEED 0.7 INCHES WC. 3. MAXIMUM INLET VELOCITY = 2200 FPM.

TRANSITION AT BOX FROM DUCT RUNOUT SIZE SHOWN TO BOX INLET SIZE.

		OCC. COOLING	OCC. HEATING	OCC. MIN.	UNOCC.	INLET SIZE	DUCT RUNOUT	AIR PD	EAT	LAT			07500		SOUND	MAX NC	MAX NC		
DESIGNATION	AHU	MAX (CFM)	MAX (CFM)	(CFM)	(CFM)	(IN.)	SIZE (IN.)	(IN. WC)	(° F)	(° F)	HEATER KW	VOLT/PH	STEPS	CONTROLS	ATTENUATOR	DISCHARGE	RADIATED	_	REMARKS
ATU-4-1	OAHU-1	200	200	200	200	5	6	0.50	55	95	2.5	277/1	1 STEP	SCRA-DAT	No	18	15	1-9	
ATU-4-2	OAHU-1	200	200	200	200	5	6	0.50	55	95	2.5	277/1	1 STEP	SCRA-DAT	No	18	15	1-9	
ATU-4-3	OAHU-1	200	200	200	200	5	6	0.50	55	95	2.5	277/1	1 STEP	SCRA-DAT	No	18	15	1-9	
ATU-4-4	OAHU-1	230	230	230	230	5	6	0.50	55	95	3	277/1	1 STEP	SCRA-DAT	No	18	15	1-9	
ATU-4-5	OAHU-1	180	180	180	180	5	6	0.50	55	95	2.5	277/1	1 STEP	SCRA-DAT	No	18	15	1-9	
ATU-4-6	OAHU-1	180	180	180	180	5	6	0.50	55	95	2.5	277/1	1 STEP	SCRA-DAT	No	18	15	1-9	
ATU-4-7	OAHU-1	220	220	220	220	5	6	0.50	55	95	3	277/1	1 STEP	SCRA-DAT	No	18	15	1-9	
ATU-4-8	OAHU-1	200	200	200	200	5	6	0.50	55	95	2.5	277/1	1 STEP	SCRA-DAT	No	18	15	1-9	
ATU-4-9	OAHU-1	200	200	200	200	5	6	0.50	55	95	2.5	277/1	1 STEP	SCRA-DAT	No	18	15	1-9	
ATU-4-10	OAHU-1	200	200	200	200	5	6	0.50	55	95	2.5	277/1	1 STEP	SCRA-DAT	No	18	15	1-9	
ATU-4-11	OAHU-1	200	200	200	200	5	6	0.50	55	95	2.5	277/1	1 STEP	SCRA-DAT	No	18	15	1-9	
ATU-4-12	OAHU-1	200	200	200	200	5	6	0.50	55	95	2.5	277/1	1 STEP	SCRA-DAT	No	18	15	1-9	

REMARKS:

GENERAL NOTES:

. ISOLATION CURB SHALL PROVIDE CLEARANCE FOR CONDENSATE TRAP INSTALLATION AS DETAILED.

. REFER TO PLANS FOR OVERALL AHU SIZE, COMPONENTS AND ARRANGEMENT. 3. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

. SEE FILTER SCHEDULE FOR FILTER REQUIREMENTS.

5. PERFORMANCE REQUIREMENTS AT SENSIBLE OA CONDITIONS (95F DB/78.0F WB) ARE 499.1 MBH TOTAL, AND 265.5 MBH SENSIBLE. , UNIT PERFORMANCE SELECTED FOR OPERATION AT 4500 ACFM. BUT SHALL BE BALANCED TO PROVIDE 3660 ACFM at 4.2 BHP.

	LOW, OUTSIDE AIR CFM															COOL	ING COIL																		
DESIGNATION	AREA SERVED	MANUF	MODEL	TYPE MEDIUM, OF		MAX	CFM/ E FAN (V	ESP TSP (IN. (IN. WG) WG)		TYPE	DIA (IN.)	RPM	DRIVE		BHP HI EA) (EA	N. P MC) VOL ⁻ /PH	T TYPE		EP FL	UID CFI	MAX. FACE VEL. (FPM)	EDB/ EWB (° F)	LDB/ LWB (° F)	SENSIBLE CAPACITY (MBTU/HR)	TOTAL CAPACITY (MBTU/HR)	EWT I (°F)	LWT (°F) GP	M ROWS & FPI		MAX. WATER PD (FT HD)	FLUID CFI	MAX FAC VEL (FPN	E EAT (°F) (
OAHU-1	LEVEL 4	TEMTROL	ITF	EXT LOW	3,660 4	4,500 2	2225 2	2.4 5.33	2	BI	14	3480	DIRECT	2 2	2.8 5.8	5 6.3	3 12.3	480/3	3 VFD	2 Y	′ES Cł	HW 450	0 429	95.0/78.0	52.0/52.0	199.4	379.6	42	57.9 47.	.5 6/11	0.74	10.53	HHW 450	0 429	30.5

																<u> </u>											
GENERAL NOTE	S:			FAN TYI	PES:		WHEEL	TYPES:				STARTE	ER TYPES / AG	CESS:		ACCES	SORIES:				19. ROOF CU	RB (12" HIGH)	l.			F	REMAR
1. MOTOR H.P. SI	HALL COMPLY WITH ASHF	RAE 90.1.		BVS - BE	ELTED VENT S	ET.	AF - AIR	FOIL.				MAG-X-L	L - COMBINAT	ION MAGNE	TIC	1. LINEI	D HOUSING	.			20. WALL CU	RB.					A. EXPI
2. BHP SHALL BE	NO GREATER THAN 90%	OF THE MOTOR H.P.		CEILING	- CEILING MC	UNTED FAN.	BI - BACI	WARD IN	ICLINE.			ACROSS	S THE LINE S	ARTER.		2. DOUI	BLE WALL H	HOUSING.			21. COPLANE	R SILENCER.				E	3. UL 7
3. CFM AT SITE E	LEVATION OF 100 FT. STA	TIC PRESSURE AT SE	A LEVEL.	MF - MIX	ED FLOW FAN	۱.	FC - FOF	WARD CI	URVED.			MMS - N	ANUAL MOT	OR STARTEI	٦.	3. WEA	THERPROC	OF HOUSING.			22. INLET AIF	RFLOW STRAIG	GHTENER.			[DUCT A
				PRE - PO	OWER ROOF E	XHAUSTER.	ESP - EX	TERNAL	STATIC F	PRESSUR	Ξ.	VFD - VA	ARIABLE FRE	QUENCY DF	RIVE.	4. OSH/	A BELT GUA	ARD.			23. INLET AN	D OUTLET RE	GAIN ATTENU	ATORS.		C	C. UL L
				PROP -	PROPELLER.		TS - MAX	(. TIP SPE	ED (RPN	1).		EP - EM	ERGENCY PC	WER.		5. MOT	OR COVER.				24. FAN ROLI	LOUT EQUIPM	IENT.				D. STAI
				PRS - PO	OWER ROOF S	SUPPLY FAN.										6. FAN	CAGE WITH	WALL SLEE	VE.			TIC BELT TENS					e. Alui
				PRV - PO	OWER ROOF V	ENTILATOR.										7. ACCE	ESS DOOR.						ONTROLLER (,			CON
						CENTRIFUGAL.											SING DRAIN						ONTROLLER (,		G. REV
					BE AXIAL.												T SCREEN.						IN FAN HOUSII	`	,		I. DISC
						IFUGAL (INLINE).											TLET SCRE						IN FAN HOUSI	`	,		. TEAO
					PBLAST DILUT	ION FAN.										-	-	LUMINUM INL		S.			IC AIRFLOW M				. TEFC
				VA - VA	NE AXIAL.													UTLET DAMP	ERS.				MUNICATED N	· · ·			K. HIGH
																		T DAMPERS.				`	ES DIRTY FILT	,			. DISC
																		ET DAMPER		_		•	ES DIRTY FILT	,			Л. REF
																		RFLY DISCHA	RGE DAMPER	र.			CH IN MOTOR S		DTED		N. PRO
																	ET BELL.						ANSFORMER I	MOTORSTA	RIER.		D. SPA
																	FLET CONE	-									P. PRO
																18. HIG	HVELOCIT	Y DISCHARG	E CONE, 3,00	U FPM.	37. FACTORY	/ NEMA 3R DIS	SCONNECT.			C	Q. PRO
DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	TYPE	CFM	ESP		WHEEL					MOTOR				dB 63 Hz	dB 125 Hz	dB 250 Hz	dB 500 Hz	dB 1000 Hz	dB 2000 Hz	dB 4000 Hz	dB 8000 Hz	dB LwA	MAX.	OPE
DESIGNATION	SERVICE	MANUFACIURER		ITPE	CFIVI	(IN. WG)	TYPE	SIZE	TS	BHP	MIN. HP	RPM	VOLTAGE	PHASE	STARTER	EP	IN / OUT	IN / OUT	IN / OUT	IN / OUT	IN / OUT	IN / OUT	IN / OUT	IN / OUT	IN / OUT	SONES	OPE
		GREENHECK	FJI-12-BI-X	BVS	1,220	1.2	BI	12	5,588	0.44	1	1725	115	1	ATL	YES	77/88	78/85	74/83	72/77	71/71	66/68	62/64	57/58	75/79	17.1	
EF-4-1	NEG PRESS RM EXH	GREENNEUN		0.0																							
EF-4-1 EF-4-2	NEG PRESS RM EXH NEG PRESS RM EXH	GREENHECK	FJI-12-BI-X	BVS	880	1.0	BI	12	4,689	0.26	3/4	1725	115	1	ATL	YES	75/85	75/81	71/77	68/72	68/66	61/62	57/58	52/53	71/74	12.5	

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REMARKS:

- A. FIELD EXTERNALLY INSULATED PLENUM/BACK PAN B. MANUFACTURER PROVIDED EXTERNAL INSULATION.
- C. MANUFACTURER PROVIDED BACK PLENUM WITH NECK OPENING SIZES AS INDICATED.
- D. HEAVY DUTY CONSTRUCTION.
- E. PROVIDE WITH HINGED FRAME.

100% OUTSIDE AIR HANDLING UNIT SCHEDULE

A. SUPPLY FAN TOTAL STATIC PRESSURE (TSP) INCLUDES SCHEDULED DIRTY FILTER LOSS. B. BRAKE HP FOR SUPPLY FANS SHALL BE NO GREATER THAN 85% OF THE MOTOR HP.

C. DRAIN PAN IN FAN SECTIONS FOR DRAW THRU CONFIGURATIONS.

D. PROVIDE PREMIUM EFFICIENT MOTOR(S).

E. EXTERNAL STATIC PRESSURE PERTAINS TO DUCTWORK AND EXTERNAL COMPONENTS ONLY. F. AHU SHALL HAVE N+1 FANS CAPABLE OF PROVIDING 3660 CFM AND HAVE AUTOMATIC DAMPERS TO CLOSE OFF DISABLED FAN.

G. OAHU-1 SHALL HAVE A 36" DEEP PIPING VESTIBULE THE LENGTH OF THE UNIT. SHIPPED LOOSE AND INSTALLED PER MANUFACTUERS DIRECTIONS BY MC. H. PROVIDE A SPRING ISOLATED CURB FOR THIS UNIT.

I. WITH AIRFLOW, ACCESS PANELS SHALL BE ON THE RIGHT-HAND SIDE OF THE UNIT AND COIL CONNECTIONS ON THE LEFT-HAND SIDE. J. THE VFDS SHALL BE FACTORY INSTALLED IN A NEMA 3X RATED ENCLOSURE. VENTILATED FROM THE AHU. K. PROVIDE UV RESOURCES UVC ARRAY AND CONTROLLER OR APPROVED EQUAL. L. PROVIDE WIND-RATED CURB PER SPECIFICATIONS.

HHW 4500 429 52 68.3 81.6 150 130 8.3 1/6 0.05 0.47

FAN SCHEDULE

AIR MOVING EQUIPMENT OPERATION DURING CONSTRUCTION

- OPENINGS IN THE WORK AREA.
- C. THE CONTRACTOR SHALL REMOVE ALL FILTERS USED DURING CONSTRUCTION AND REPLACE THEM WITH NEW FILTERS PRIOR TO TEST AND BALANCE WORK AND PRIOR TO SUBSTANTIAL COMPLETION.
- D. IF THE DUCTWORK AND/OR EQUIPMENT IS FOUND TO BE CONTAMINATED AT ANY POINT DURING CONSTRUCTION, AN INDEPENDENT NADCA CERTIFIED CONTRACTOR SHALL BE RETAINED TO CLEAN THE DUCTWORK AND/OR EQUIPMENT AT THE CONTRACTORS EXPENSE.
- . SYSTEM OPERATING TEMPERATURES SHALL BE MAINTAINED TO AVOID CONDENSATION ON DUCTWORK AND EQUIPMENT SURFACES. NEW OR EXISTING INSULATION FOUND DAMAGED SHALL BE REPLACED.
- PRESSURE RELATIONSHIPS IN CONSTRUCTION AREAS ADJACENT TO OCCUPIED AREAS. G. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- - DIRECTED BY THE ICRA REPORT.

- THE USE OF NEW OR EXISTING AIR HANDLING UNITS, FANS, OR OTHER PERMANENT AIR MOVING EQUIPMENT DURING CONSTRUCTION IS PROHIBITED UNLESS APPROVED BY THE OWNER. IF APPROVED FOR USE DURING CONSTRUCTION, THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:
- A. THE CONTRACTOR SHALL PROTECT THE INTERIOR OF ALL DUCTWORK, AIR HANDLING UNITS, AND OTHER EQUIPMENT FROM THE ACCUMULATION OF DIRT AND DUST AND OTHER CONTAMINANTS. IF THE PERMANENT EQUIPMENT CANNOT BE ADEQUATELY PROTECTED, TEMPORARY AIR MOVING/ CONDITIONING EQUIPMENT AND DISTRIBUTION SYSTEMS SHALL BE UTILIZED AS REQUIRED FOR FINISHING TRADES.
- B. PROVIDE TEMPORARY FILTERS ON ALL RETURN AND EXHAUST AIR GRILLES, OPEN DUCTWORK, AND TRANSFER
- . COORDINATE USE OF AIR HANDLING EQUIPMENT WITH ICRA PLAN. IF APPLICABLE. MAINTAIN REQUIRED

INFECTION CONTROL RISK ASSESSMENT NOTES

A. CONTRACTOR SHALL OBTAIN FROM THE OWNER A COPY OF THE INFECTION CONTROL RISK ASSESSMENT (ICRA) PREPARED FOR THIS PROJECT. CONTRACTOR SHALL REVIEW THE REQUIREMENTS IN THE REPORT AND PERFORM ALL WORK IN ACCORDANCE WITH THOSE REQUIREMENTS. CONTRACTOR SHALL STRICTLY ADHERE TO THE LIMITS OF THE CONSTRUCTION AREA, AND WHERE PHASING APPLIES SHALL ADHERE TO THE PHASING PLAN. ANY WORK OUTSIDE THE CONSTRUCTION AREA SHALL BE COORDINATED WITH THE OWNER AND PERFORMED IN ACCORDANCE WITH THE ICRA REPORT, UNDER THE SUPERVISION OF THE OWNER'S REPRESENTATIVE OR OTHER DESIGNATED ICRA COMMITTEE OFFICER.

B. TO THE EXTENT THAT IT IS REQUIRED BY THE ICRA, THE CONTRACTOR SHALL ENDEAVOR TO MAINTAIN EXISTING LEVELS OF INDOOR AIR QUALITY IN AREAS SURROUNDING AND ADJACENT TO THE CONSTRUCTION WORK ZONE AND ELSEWHERE IN THE FACILITY. IT SHOULD BE ANTICIPATED THAT THE ICRA REPORT WILL REQUIRE MEASURES TO THIS EFFECT INCLUDING ERECTION OF CONSTRUCTION ZONE BARRIERS AND PROVISION OF NEGATIVE AIR PRESSURE IN THE CONSTRUCTION ZONE RELATIVE TO OTHER AREAS OF THE FACILITY.

C. IN ADDITION TO THE MEETING THE REQUIREMENTS OF THE ICRA REPORT, THE CONTRACTOR AT A MINIMUM SHALL PROVIDE EQUIPMENT AND COMPONENTS NECESSARY TO CREATE A NEGATIVE PRESSURE IN THE CONSTRUCTION WORK ZONE RELATIVE TO ADJACENT AREA. EXISTING HVAC SYSTEMS AND COMPONENTS SHALL NOT BE USED FOR THIS FUNCTION, UNLESS SPECIFICALLY APPROVED BY THE OWNER'S INFECTION CONTROL OFFICER. THE CONCEPT AND ALL ASPECTS OF THIS WORK SHALL BE DONE IN ACCORDANCE WITH THE ICRA REQUIREMENTS AND AT A MINIMUM AS FOLLOWS:

1. VERIFY ALL EXISTING DUCTWORK WHICH PASSES THROUGH THE CONSTRUCTION ZONE, AND IS TO REMAIN, IS SEALED AND PROTECTED DURING THE CONSTRUCTION DURATION.

2. AIR REMOVED FROM THE CONSTRUCTION ZONE SHALL BE FILTERED AND/OR DISCHARGED AS

3. PRESENT THE NEGATIVE AIR PRESSURE PLAN TO THE OWNER FOR APPROVAL BY THE INFECTION CONTROL COMMITTEE.

4. PROVIDE MEANS TO MONITOR AND VERIFY NEGATIVE PRESSURE IS BEING MAINTAINED IN ACCORDANCE WITH THE ICRA REPORT, AND PROVIDE DOCUMENTATION TO THE OWNER AS REQUIRED.

D. COORDINATE IN ADVANCE ANY REQUIRED EQUIPMENT SHUTDOWN WITH THE OWNER, AND VERIFY BEFORE SHUTDOWN THAT EXISTING OR DESIRED AIR PRESSURE RELATIONSHIPS WILL NOT BE ADVERSELY AFFECTED.

> STARTER... VFD.

MMS (MANUAL MOTOR STARTER). MAG-X-L (COMBINATION MAGNETIC X-LINE STARTER).

Suite 200

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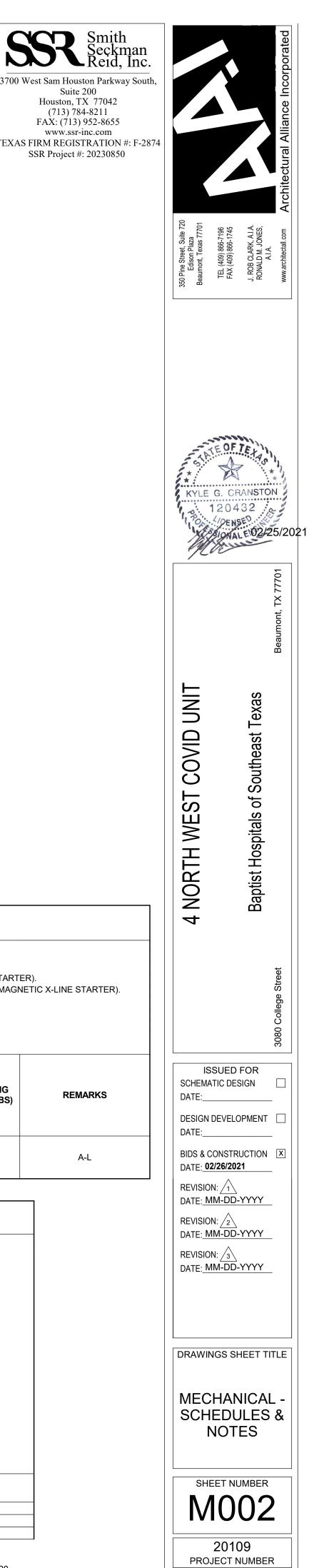
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SSR Project #: 20230850

PRE-HEATING COIL ISOLATION OPERATING MAX. REMARKS MAX. WEIGHT (LBS) TYPE AT LAT CAPACITY EWT LWT F) (°F) (MBTU/HR) (°F) (°F) GPM & ROWS & FPI WATER AIR PD PD (IN. WG) (FT. HD) 0.5 65.3 182.4 150 130 18.5 1/10 0.09 4.03 **RE-HEATING COIL** 2" SPRING 4,029 A-L

MARKS: EXPLOSION PROOF MOTOR WITH NON-SPARKING WHEEL AND DRIVE ASSEMBLY. UL 762 LISTING WITH GREASE TROUGH, HINGED FAN ACCESS, CT ADAPTIVE PLATE AND CURB EXTENSION TO MAINTAIN INCHES ABOVE THE ROOF. JL LISTED FOR SMOKE CONTROL SYSTEM. STAINLESS STEEL SHAFT AND HARDWARE. ALUMINUM WHEEL AND HOUSING. CONCRETE INERTIA BASE (TYPE C). REVERSIBLE MOTOR. DISCONNECT SHALL HAVE CONTACTS FOR REMOTE VFD OPERATION. EAO MOTOR. EFC MOTOR. HIGH WIND RATED FAN AND ASSEMBLY. DISCHARGE STACK SHALL BE SELF SUPPORTING. REFER TO STRUCUTRAL PLANS FOR ADDITIONAL DISCHARGE STACK SUPPORT REQUIREMENTS. PROVIDE WITH EPOXY COATING COMPLIANT WITH ASTM B117 SPARK RESISTANT TYPE B CONSTRUCTION. PROVIDE WITH SPRING ISOLATORS. PROVIDE WITH SHAFT GROUNDING RING. OPERATING WEIGHT (LBS) ACCESSORIES REMARKS 3.4.5.8.11.16.18.19.28.30.36.37 D,E,H,J,K,L,M,N,O,P,Q 290 3,4,5,8,11,16,18,19,28,30,36,37 D,E,H,J,K,L,M,N,O,P,Q 299 3,4,5,8,11,16,18,19,28,30,36,37 D,E,H,J,K,L,M,N,O,P,Q



401 - OEIMI-I						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		0.12	20		0	
4	62 - RR	EXHAL	JST - TOILETS (PRIV	ATE) - CONTINU	JOUS EXHAUST	- 3	9	0	0		0	
462 - SEMI-I	PRIVATE PAT RM		NR - NO R	REQUIREMENT		22	20	0.12	26		0	
4	63 - RR	EXHAL	JST - TOILETS (PRIV	ATE) - CONTINU	JOUS EXHAUST	- 3	9	0	0		0	
463 - SEMI-I	PRIVATE PAT RM		NR - NO R	REQUIREMENT		22	20	0.12	26		0	
4	64 - RR	EXHAU	JST - TOILETS (PRIV	ATE) - CONTINU	JOUS EXHAUST	- 3	9	0	0		0	
464 - SEMI-I	PRIVATE PAT RM		NR - NO R	REQUIREMENT		22	20	0.12	26		0	
CC	RRIDOR		GENERAL	- CORRIDORS		1,3	51	0.06	81		0	
	EVS		EXHAUST - J	IANITOR CLOSE	T	2	1	0	0		0	
NURS	E STATION		OFFICE - C	OFFICE SPACE		19	2	0.06	12		5	
so	ILED RM		EXHAUST - SOILEI	D LAUNDRY STO	ORAGE	7	8	0	0		0	
3. IF DUCT RUN 4. INLET STATIO 5. IF HEATING (6. CONTROL V/	LET VELOCITY AT BOX FROM IOUT EXCEEDS C PRESSURE F CAPACITY CAN ALVE SHALL BE	= 2100 FPM. DUCT RUNOUT S 12 FEET IN LENG REQUIRED TO OPE NOT BE MET, ELIN 5 SIZED FROM GPI 5 FOR ADDITIONA	GTH, INCREASE RI ERATE ATU AND H MINATE COIL FRO M LISTED ON THE	UNOUT DIAME IEATING COIL M ATU AND PI	ETER 2". . SHALL NOT I ROVIDE SEP#	ÉXCEED 0.7" V ARATE DUCT N	NOUNTE	ED HEATING	COIL TO M	SHALL EET SC	CHEDU	
DESIGNATION	AHU	OCC. COOLING MAX (CFM)	OCC. HEATING MAX (CFM)	OCC. MIN. (CFM)	UNOCC. (CFM)	INLET SIZE (IN.)		T RUNOUT ZE (IN.)	AIR PD (IN. W.C.)	EAT (° F)	LAT (°F)	
DESIGNATION ATU-4-13	AHU OAHU-1					-						

451 - RR	EXHAUST - TOILETS (PRIVATE) - CONTINUOUS EXHAUST
451 - SEMI-PRIVATE PAT RM	NR - NO REQUIREMENT
452 - RR	EXHAUST - TOILETS (PRIVATE) - CONTINUOUS EXHAUST
452 - SEMI-PRIVATE PAT RM	NR - NO REQUIREMENT
453 - RR	EXHAUST - TOILETS (PRIVATE) - CONTINUOUS EXHAUST
453 - SEMI-PRIVATE PAT RM	NR - NO REQUIREMENT
454 - RR	EXHAUST - TOILETS (PRIVATE) - CONTINUOUS EXHAUST
454 - SEMI-PRIVATE PAT RM	NR - NO REQUIREMENT
457 - RR	EXHAUST - TOILETS (PRIVATE) - CONTINUOUS EXHAUST
457 - SEMI-PRIVATE PAT RM	NR - NO REQUIREMENT
458 - RR	EXHAUST - TOILETS (PRIVATE) - CONTINUOUS EXHAUST
458 - SEMI-PRIVATE PAT RM	NR - NO REQUIREMENT
459 - RR	EXHAUST - TOILETS (PRIVATE) - CONTINUOUS EXHAUST
459 - SEMI-PRIVATE PAT RM	NR - NO REQUIREMENT
460 - RR	EXHAUST - TOILETS (PRIVATE) - CONTINUOUS EXHAUST
460 - SEMI-PRIVATE PAT RM	NR - NO REQUIREMENT
461 - RR	EXHAUST - TOILETS (PRIVATE) - CONTINUOUS EXHAUST
461 - SEMI-PRIVATE PAT RM	NR - NO REQUIREMENT
462 - RR	EXHAUST - TOILETS (PRIVATE) - CONTINUOUS EXHAUST
462 - SEMI-PRIVATE PAT RM	NR - NO REQUIREMENT
463 - RR	EXHAUST - TOILETS (PRIVATE) - CONTINUOUS EXHAUST
463 - SEMI-PRIVATE PAT RM	NR - NO REQUIREMENT
464 - RR	EXHAUST - TOILETS (PRIVATE) - CONTINUOUS EXHAUST
464 - SEMI-PRIVATE PAT RM	NR - NO REQUIREMENT
CORRIDOR	GENERAL - CORRIDORS
EVS	EXHAUST - JANITOR CLOSET
NURSE STATION	OFFICE - OFFICE SPACE

SPACE NUMBER - NAME

D. UNCORRECTED OUTDOOR AIR INTAKE FLOW (Vou) = 904 CFM

B. OCCUPANT DIVERSITY (D) = 1 C. DIVERSIFIED POPULATION = 25

1. SYSTEM VENTILATION SUMMARY FOR UNIT OAHU-1 A. TOTAL POPULATION (Ps) = 25

NEXT LARGER SIZE MOTOR AND INCLUDE IN PUMP. QUOTE GENERAL NOTES: 1. FILTERS MERV 14 AND BELOW SHALL BE RATED IN ACCORDANCE WITH ASHRAE 52.2 - 2012. 95% FILTERS SHALL BE TESTED BY THE DOP METHOD. FILTERS ABOVE 95% SHALL BE RATED ALL CHANGES TO STARTERS & ELECTRICAL WORK. IN ACCORDANCE WITH IEST RP-CC001.3 SCAN STANDARD. 3 - MAG-X-L STARTERS PROVIDED BY DIVISION 26 2. FURNISH WITH SIDE LOADING FILTER FRAME. 3. FURNISH WITH UNIVERSAL FRONT LOADING TYPE 8 FILTER FRAME. MOTOR 4. FURNISH WITH FRONT LOADING HEPA FILTER FRAME WITH GEL SEALS. IMPELLR MIN 5. PROVIDE ONE DWYER MAGNEHELIC GAUGE OF APPROPRIATE RANGE ACROSS EACH FILTER TYPE AND RA MFR & HEAD DIA. IDENT SERVICE SIZE TYPE GPM EFF REMARKS VOLTS / 6. QUANTITIES AND MAXIMUM FACE VELOCITY SHALL MATCH FILTER FRAME FREE AREA WITHOUT SPACERS. MODEL (FT) RPM STARTER BHP <u>(</u>%) (IN) 7. REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS. PHASE MAX FACE PREHEAT COIL BELL & GOSSETT HWCP-1 1AAB INLINE 19 3.5 0.222 3600 120/1 ECM 19 43 1.0 DESIGNATION SYSTEM MANUFACTURER MODEL NUMBER TYPE VELOCITY EFFICI (OAHU-1) SERIES e-90 (FPM) REHEAT COIL BELL & GOSSETT (OAHU-1) ecocirc PF-1 PANEL-PRE 500 OAHU-1 CAMFIL 30/30 4700 ECM HWCP-2 20-18 INLINE 8 7.5 51 0.6 120/1 1 FF-1 OAHU-1 CAMFIL DURAFIL ES V-BAMK 500

B. SEE CONTROL DRAWINGS FOR OPERATIONAL SEQUENCE.

MANUFACTURER

ENVIRCO

E. PRIMARY AIR FLOW (Vps) = 4500 CFM

G. VENTILATION EFFICIENCY (Ev) = 0.912

AREA

OUTDOOR

AIR RATE

(Ra)

CFM/FT2

0

0.12

0

0.12

0

0.12

0

0.12

0

0.12

0

0.12

0

0.12

0

0.12

0

0.12

F. AVERAGE OUTDOOR AIR FRACTION (Xs) = 0.247

C. UNIT MOUNTED DISCONNECT SWITCH.

CONTROL WITH ANALOG OUTPUTS

ZONE

AREA

(Az)

FT2

38

221

38

221

39

221

39

245

38

190

41

190

38

239

39

218

39

220

FLOOR

REMARKS:

DESIGNATION

FFU-1

GENERAL NOTES: 1 - SCHEDULED MOTOR HP IS MINIMUM ACCEPTABLE 2 - MOTORS SHALL BE NON-OVERLOADING. IF ANY POINT ON THE PUMP CURVE EXCEEDS THE SCHEDULED HP, GO TO THE PUMP SCHEDULE

REMARKS: 1. FLANGED CONNECTION, CAST IRON BODY, FRACTIONAL HORSEPOWER CIRCULATOR

-OWNERSHIP OF DRAWINGS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF ARCHITECTURAL ALLIANCE INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF ARCHITECTURAL ALLIANCE INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF ARCHITECTURAL ALLIANCE INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF ARCHITECTURAL ALLIANCE INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF ARCHITECTURAL ALLIANCE INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF ARCHITECTURAL ALLIANCE INCORPORATED.

SIZE (IN.)

3/4"

ELIMINATE COIL FROM ATU AND PROVIDE SEPARATE DUCT MOUNTED HEATING COIL TO MEET SCHEDULED CAPACITY. INDEPENDENTLY INSTALL COIL AND INSULATE DUCT AND COIL. COMPLY WITH

OPERATE ATU AND HEATING COIL SHALL NOT EXCEED 0.7" W.C. MAXIMUM COIL VELOCITY SHALL NOT EXCEED 700 FPM. GPM LISTED ON THE APPROVED AIR TERMINAL UNIT SUBMITTAL. CONTROL VALVES SHALL BE MODULATING 2-WAY UNLESS NOTED OTHERWISE.

BTUH

0.67 55 85 39240 2 2.3

ROWS

NAL INFORMATION.

VENTILATION CODE

OCCUPANCY CATEGOR

FAN FILTER UNIT SCHEDULE A. SEE SPECIFICATIONS FOR CONSTRUCTION, FINISH, FILTER, ACCESSORIES AND CONTROLS. E. PROVIDE 12" DUCT COLLARS F. INSULATED PLENUM ON TOP OF U G. PROVIDE 3/8" CHALLENGE PORTS D. UNIT MOUNTED FAN SPEED CONTROLLER WITH UNIVERSAL CARD FOR DDC FAN SPEED H. PROVIDE DRYWALL ADAPTER FRA

MAXIMUM

CFM

(FPM)

350

PEOPLE

OUTDOOR

AIR RATE

(Rp) CFM/PERSO

N

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

5

0

DESIGN

CFM

@90 FPM

SEE PLAN

DESIGN

POPULATION

(Pz)

PEOPLE

2

0

2

0

2

0

2

0

1

0

0

2

0

2

0

2

0

2

0

2

0

0

4

0

GPM

AIR TERMINAL UNITS SCHEDULE

ZONE

UNIT FACE

SIZE

2X2

DEFAULT

ZONE

POPULATION

PEOPLE

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

1

0

MODEL NUMBER

MAC10 LEDC RSRC

DEFAULT

OCCUPANT

DENSITY

#/1000 FT2

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

AREA

AIRFLOW

CFM

0

27

0

26

0

26

0

29

0

23

0

23

0

29

0

26

0

26

OUTDOOR

AREA

(SQ. FT.)

2.3

ZONE AIR

ON

EFFECTIV...

(Ez)

0.0

1.0

0.0

1.0

0.0

1.0

0.0

1.0

0.0

1.0

0.0

1.0

0.0

1.0

0.0

1.0

0.0

1.0

0.0

1.0

0.0

1.0

0.0

1.0

0.8

0.0

0.8

0.8

TYPE

HEPA

H. MINIMUM OUTDOOR AIR INTAKE FLOW (Vot) = 991 CFM

BREATHING

AIRFLOW

(Vbz)

CFM

0

67

0

67

0

67

0

74

0

57

0

57

0

72

0

66

0

66

0

66

0

66

0

66

81

0

32

0

ZONE OUTDOOR DISTRIBUTI

I. DESIGN OUTDOOR AIR INTAKE FLOW = 3660 CFM

PEOPLE

OUTDOOR

AIRFLOW

CFM

0

40

0

41

0

41

0

45

0

34

0

34

0

43

0

40

0

40

0

40

0

40

0

40

0

0

20

0

PIPE RUNOUT | EWT | LWT | WATER DT | WATER PD

(°F) (°F) (°F) (°F) (FT. HD.)

150 117 34 2.5

TYPE н T1



SSR Project #: 20230850 **TEMPERATURE SENSOR LEGEND**

GENERAL NOTES: 1. REFER TO EQUIPMENT SCHEDULES FOR SENSOR TYPE.

2. REFER TO SPECIFICATIONS FOR SENSOR TYPES APPEARING ON FLOOR PLANS BUT NOT LISTED IN THIS SCHEDULE. 3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LOCAL ADJUSTMENT	LCD DISPLAY	FLUSH MTD	UNOCC. OVERRIDE	REMARKS
NO	YES	NO	NO	
YES	YES	NO	NO	

AIR FILTER SCHEDULE

ACK.	
3	

CIENCY	MERV	INITIAL RESISTANCE (IN. WC.)	FINAL RESISTANCE (IN. WC.)	FILTER DEPTH	REMARKS	
-	8A	0.27	0.5	4	1,5,6,7	
-	14A	0.29	1	12	1,5,6,7	

J. 6 ACH FOR PATIENT ROOMS ARE PROVIDED BY HEPA FILTRATION RECIRCULATION FAN FILTER UNITS PER TX. ADMIN. CODE TITLE 25 CHAPER 133 TABLE 3 NOTE 12

S P OF UNIT. PORTS ACCESSIBLE ER FRAMES.	FROM FACE	J. PROVIDE ECM K. PROVIDE ROO	I. PROVIDE WASHABLE PRE-FILTER J. PROVIDE ECM FANS K. PROVIDE ROOMSIDE REPLACEABLE MOTORS AND FILTERS L. BACNET CARD FOR FILTER LOADING STATUS.						
FILTER									
EFFICIENCY	MERV	UN	IT ELECTRIC	CAL	REMARKS				
EFFICIENCI	IVIERV	WATTS	FLA	VOLT/PH					
99.99%	17	145	2.75	120/1	A, B, C, D, F, H, I, J, K, L				
	•								

VENTILATION CODE SUMMARY SCHEDULE (OAHU-1)

ZONE DUTDOOR AIRFLOW	ZO PRIMARY MAX		ZONE VENTILATION EFFICIENCY	REMARKS
(Voz)	(Vr		(Evz)	KEIMAKKS
CFM	CFM	CFM		
0	0 0		0.000	
67	200	200	0.912	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0	0	0.000	
67	200	200	0.912	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0	0	0.000	
67	200	200	0.912	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0	0	0.000	
74	230	230	0.925	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0	0	0.000	
57	180	180	0.930	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0	0	0.000	
57	180	180	0.930	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0	0	0.000	
72	220	220	0.920	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0	0	0.000	
66	200	200	0.917	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0	0	0.000	
66	200	200	0.917	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0	0	0.000	
66	200	200	0.917	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0	0	0.000	
66	200	200	0.917	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0	0	0.000	
66	200	200	0.917	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
101	900	900	1.134	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0	0	0.000	
39	300	300	1.116	ZONE OUTDOOR AIRFLOW PER TX ADMIN. CODE TITLE 25 CHAPTER 133
0	0 50 50		0.000	

TH MAXIMUM AIR PRESSURE DROP	AND WATER PRESSURE DROP	AIR VALVE HEATING COIL ASSEMBLY.

CONTROL		SOUND ATT.	NOISE CF	RITERIA	TEMP.	REMARKS			
	TYPE	SOUND ATT.	DISCHARGE	RADIATED	SENSOR TYPE	REWIARKS			
	2-WAY VALVE	No	24	30	T1				

SSSR Sgeckman Site 200 Another 200 Houston, TX 77042 (713) 784-8211 FAX: (713) 952-8655 www.ssr-inc.com TEXAS FIRM REGISTRATION #: F-2874 SSR Project #: 20230850 SEND	350 Pine Street, Suite 720 Edison Plaza Beaumont, Texas 77701 TEL (409) 866-7196 FAX (409) 866-7196 J. ROB CLARK A.I.A.	RONALD M. JONES, A.I.A. www.architectall.com Architectural Alliance Incorporated
REMARKS	KYLE G. CRAN 120432	2/25/2021
TERS		Beaumont, TX 77701
REMARKS . H, I, J, K, L 12 S		Be
IN. CODE TITLE 25 CHAPTER 133		3080 College Street
IN. CODE TITLE 25 CHAPTER 133 IN. CODE TITLE 25 CHAPTER 133	ISSUED FOR SCHEMATIC DESIGN DATE: DESIGN DEVELOPM DATE: BIDS & CONSTRUCT DATE: 02/26/2021 REVISION: 1 DATE: MM-DD-YYY REVISION: 2 DATE: MM-DD-YYY REVISION: 3 DATE: MM-DD-YYY	R I ENT ION X YY
N. CODE TITLE 25 CHAPTER 133	DRAWINGS SHEE	TTITLE
IL ASSEMBLY.	MECHANIC SCHEDUL SHEET NUME MOO	ES
	20109	



HEALTHCARE CODE SUMMARY SCHEDULE (OAHU-1)

NOTES:

1. DATA IN THIS TABLE IS ONLY PROVIDED FOR SPACES WITH A SPECIFIC HEALTHCARE CODE FUNCTION.

2. BLANK FIELDS FOR SPACES WITH A SPECIFIC HEALTHCARE CODE FUNCTION INDICATE NO REQUIREMENT BY THE HEALTHCARE CODE. . SYSTEM MINIMUM OUTDOOR AIR QUANTITY IS CALCULATED BY THE VENTILATION RATE PROCEDURE OF ASHRAE STANDARD 62.1 AS ALLOWED BY ASHRAE STANDARD 170-2017 SECTION 7.1.a.6.ii. THE REQUIRED MINIMUM OUTDOOR AIR CHANGE RATES FOR EACH SPACE ARE... ZONE OUTDOOR AIRFLOW (Voz) IN THE VENTILATION RATE PROCEDURE CALCULATIONS AND ARE INCLUDED IN THE OUTSIDE AIR QUANTIY FOR EACH SYSTEM. THE VENTILATION RATE PROCEDURE DOES NOT PROVIDE A MEANS OF DETERMINING ACTUAL ZONE (SPACE) OUTDOO ... REFER TO THE VENTILATION CODE SUMMARY SCHEDULE FOR VENTILATION RATE PROCEDURE CALCULATION RESULTS.

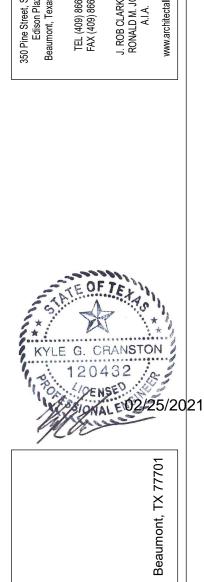
4. PER INTERPRETATION IC 170-2013-14 OF ANSI/ASHRAE/ASHE STANDARD 170-2013, THE RATIO OF MINIMUM OUTDOOR AIR AIR CHANGE RATE TO MINIMUM TOTAL AIR CHANGE RATE DOES NOT ESTABLISH THE MINIMUM SYSTEM OUTDOOR AIR QUANTITY.

SPACE NUMBER - NAME	FUNCTION OF SPACE	RELATI TO AD	SURE ONSHIP JACENT EAS		INIMUM DOOR ACH		IIMUM AL ACH	EXHA DIR	OOM AIR AUSTED ECTLY DOORS	RECIRO BY ME	AIR CULATED EANS OF M UNITS	REL	SIGN ATIVE MIDITY (%)	TEMPE	SIGN RATURE oF)	REMARKS
		REQ'D	ACTUAL	REQ'D	ACTUAL	REQ'D	ACTUAL	REQ'D	ACTUAL	REQ'D	ACTUAL	REQ'D	ACTUAL	REQ'D	ACTUAL	
451 - RR	SERVICE - BATHROOM	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.5	Y	Y	N	Ν	NR	20 - 50	75	70 - 75	
451 - SEMI-PRIVATE PAT RM	NURSING - AIRBORNE INFECTION ISOLATION ROOM	NEGATIVE	NEGATIVE	2	NOTES 3 & 4	12	7.2	Y	Y	N	N	NR	20 - 50	70 - 75	70 - 75	
452 - RR	SERVICE - BATHROOM	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.5	Y	Y	N	Ν	NR	20 - 50	75	70 - 75	
452 - SEMI-PRIVATE PAT RM	NURSING - AIRBORNE INFECTION ISOLATION ROOM	NEGATIVE	NEGATIVE	2	NOTES 3 & 4	12	7.3	Y	Y	N	Ν	NR	20 - 50	70 - 75	70 - 75	
453 - RR	SERVICE - BATHROOM	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.3	Y	Y	N	Ν	NR	20 - 50	75	70 - 75	
453 - SEMI-PRIVATE PAT RM	NURSING - AIRBORNE INFECTION ISOLATION ROOM	NEGATIVE	NEGATIVE	2	NOTES 3 & 4	12	7.3	Y	Y	N	Ν	NR	20 - 50	70 - 75	70 - 75	
454 - RR	SERVICE - BATHROOM	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.3	Y	Y	N	Ν	NR	20 - 50	75	70 - 75	
454 - SEMI-PRIVATE PAT RM	NURSING - AIRBORNE INFECTION ISOLATION ROOM	NEGATIVE	NEGATIVE	2	NOTES 3 & 4	12	7.1	Y	Y	N	Ν	NR	20 - 50	70 - 75	70 - 75	
457 - RR	SERVICE - BATHROOM	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.5	Y	Y	N	N	NR	20 - 50	75	70 - 75	
457 - SEMI-PRIVATE PAT RM	NURSING - AIRBORNE INFECTION ISOLATION ROOM	NEGATIVE	NEGATIVE	2	NOTES 3 & 4	12	7.0	Y	Y	N	Ν	NR	20 - 50	70 - 75	70 - 75	
458 - RR	SERVICE - BATHROOM	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.6	Y	Y	N	Ν	NR	20 - 50	75	70 - 75	
458 - SEMI-PRIVATE PAT RM	NURSING - AIRBORNE INFECTION ISOLATION ROOM	NEGATIVE	NEGATIVE	2	NOTES 3 & 4	12	7.0	Y	Y	N	Ν	NR	20 - 50	70 - 75	70 - 75	
459 - RR	SERVICE - BATHROOM	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.5	Y	Y	N	Ν	NR	20 - 50	75	70 - 75	
459 - SEMI-PRIVATE PAT RM	NURSING - AIRBORNE INFECTION ISOLATION ROOM	NEGATIVE	NEGATIVE	2	NOTES 3 & 4	12	7.3	Y	Y	N	Ν	NR	20 - 50	70 - 75	70 - 75	
460 - RR	SERVICE - BATHROOM	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.3	Y	Y	N	Ν	NR	20 - 50	75	70 - 75	
460 - SEMI-PRIVATE PAT RM	NURSING - AIRBORNE INFECTION ISOLATION ROOM	NEGATIVE	NEGATIVE	2	NOTES 3 & 4	12	7.0	Y	Y	N	Ν	NR	20 - 50	70 - 75	70 - 75	
461 - RR	SERVICE - BATHROOM	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.3	Y	Y	N	Ν	NR	20 - 50	75	70 - 75	
461 - SEMI-PRIVATE PAT RM	NURSING - AIRBORNE INFECTION ISOLATION ROOM	NEGATIVE	NEGATIVE	2	NOTES 3 & 4	12	7.3	Y	Y	N	Ν	NR	20 - 50	70 - 75	70 - 75	
462 - RR	SERVICE - BATHROOM	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.3	Y	Y	N	Ν	NR	20 - 50	75	70 - 75	
462 - SEMI-PRIVATE PAT RM	NURSING - AIRBORNE INFECTION ISOLATION ROOM	NEGATIVE	NEGATIVE	2	NOTES 3 & 4	12	7.3	Y	Y	N	Ν	NR	20 - 50	70 - 75	70 - 75	
463 - RR	SERVICE - BATHROOM	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.3	Y	Y	N	Ν	NR	20 - 50	75	70 - 75	
463 - SEMI-PRIVATE PAT RM	NURSING - AIRBORNE INFECTION ISOLATION ROOM	NEGATIVE	NEGATIVE	2	NOTES 3 & 4	12	7.3	Y	Y	N	Ν	NR	20 - 50	70 - 75	70 - 75	
464 - RR	SERVICE - BATHROOM	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.3	Y	Y	N	Ν	NR	20 - 50	75	70 - 75	
464 - SEMI-PRIVATE PAT RM	NURSING - AIRBORNE INFECTION ISOLATION ROOM	NEGATIVE	NEGATIVE	2	NOTES 3 & 4	12	7.3	Y	Y	N	Ν	NR	20 - 50	70 - 75	70 - 75	
CORRIDOR	NURSING - PATIENT CORRIDOR	NR	POSITIVE	NR	NOTES 3 & 4	2	4.4	NR	Ν	NR	Ν	NR	20 - 50	NR	70 - 75	
EVS	SERVICE - JANITOR'S CLOSET	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	11.1	Y	Y	N	Ν	NR	20 - 50	NR	70 - 75	
NURSE STATION	ADMINISTRATIVE - ADMINISTRATIVE AND SUPPORT SERVICE	NR	POSITIVE	NR	NOTES 3 & 4	2	10.4	NR	Ν	NR	Ν	MIN 30	20 - 50	68 - 73	70 - 75	
SOILED RM	SERVICE - SOILED LINEN (SORTING AND STORAGE)	NEGATIVE	NEGATIVE	NR	NOTES 3 & 4	10	10.3	Y	Y	N	Ν	NR	20 - 50	NR	70 - 75	

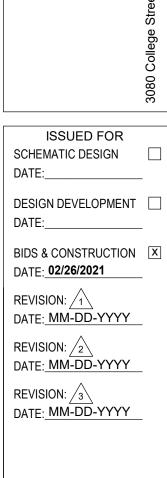
Load Summary (Spaces)																					
				Cooling											Heat	ing					
Zana Numban	Curses Number Name		Envel	оре	Peo	ple	Lights	Equip	ment	Total (Int	ernal	Tot	tal	Envelope	Peo	ple	Lights	Equip	ment	To	tal
Zone Number	Space Number - Name	Area	Sensi	Latent	Sensi	Latent		Sensi	Latent	Sensible	Latent	Sensi	Latent	Sensible	Sensi	Latent	Sensi	Sensi	Latent	Sensi	
		ft2	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
001	451 - RR	38	3				110		-	110	-	113		-4		-	110			106	
001	451 - SEMI-PRIVATE PA	221	687		500	400	468	1,768	500	2,736	900	3,422	900	-889	500	400	468	1,768	500	1,847	900
002	452 - RR	38	3				110			110		113		-4			110			106	
002	452 - SEMI-PRIVATE PA	221	687		500	400	467	1,768	500	2,735	900	3,421	900	-889	500	400	467	1,768	500	1,846	900
003	453 - RR	39	3				113			113		116		-4			113			109	
003	453 - SEMI-PRIVATE PA	221	687		500	400	467	1,768	500	2,735	900	3,421	900	-889	500	400	467	1,768	500	1,846	900
004	454 - RR	39	3				113			113		116		-4			113			109	
004	454 - SEMI-PRIVATE PA	245	684		500	400	518	1,768	500	2,786	900	3,471	900	-882	500	400	518	1,768	500	1,904	900
005	457 - RR	38	3				110			110		113		-4			110			106	
005	457 - SEMI-PRIVATE PA	190	1,705		250	200	401	1,768	500	2,419	700	4,124	700	-906	250	200	401	1,768	500	1,513	700
006	458 - RR	41	3				119			119		122		-4			119			115	
006	458 - SEMI-PRIVATE PA	190	1,705		250	200	401	1,768	500	2,419	700	4,124	700	-906	250	200	401	1,768	500	1,513	700
007	459 - RR	38	3				110			110		113		-4			110			106	
007	459 - SEMI-PRIVATE PA	239	1,767		250	200	506	1,768	500	2,524	700	4,291	700	-1,032	250	200	506	1,768	500	1,491	700
008	460 - RR	39	3				113			113		116		-4			113			109	
008	460 - SEMI-PRIVATE PA	218	1,485		500	400	460	1,768	500	2,728	900	4,213	900	-870	500	400	460	1,768	500	1,858	900
009	461 - RR	39	3				113			113		116		-4			113			109	
009	461 - SEMI-PRIVATE PA	220	1,494		500	400	466	1,768	500	2,733	900	4,228	900	-889	500	400	466	1,768	500	1,845	900
010	462 - RR	39	3				113			113		116		-4			113			109	
010	462 - SEMI-PRIVATE PA	220	1,494		500	400	466	1,768	500	2,733	900	4,228	900	-889	500	400	466	1,768	500	1,845	900
011	463 - RR	39	3				113			113		116		-4			113			109	
011	463 - SEMI-PRIVATE PA	220	1,494		500	400	466	1,768	500	2,733	900	4,228	900	-889	500	400	466	1,768	500	1,845	900
012	464 - RR	39	3	-			113			113	-	116		-4			113			109	_
012	464 - SEMI-PRIVATE PA	220	1,494		500	400	466	1,768	500	2,733	900	4,228	900	-889	500	400	466	1,768	500	1,845	900
013	CORRIDOR	1,351	65				4,242			4,242		4,307		-96			4,242			4,146	
013	EVS	21	1				31			31		32		-2			31			29	
013	NURSE STATION	192	13		1,000	800	531	1,635		3,166	800	3,178	800	-19	1,000	800	531	1,635		3,147	800
014	SOILED RM	78	5				114			114		120		-8			114			107	



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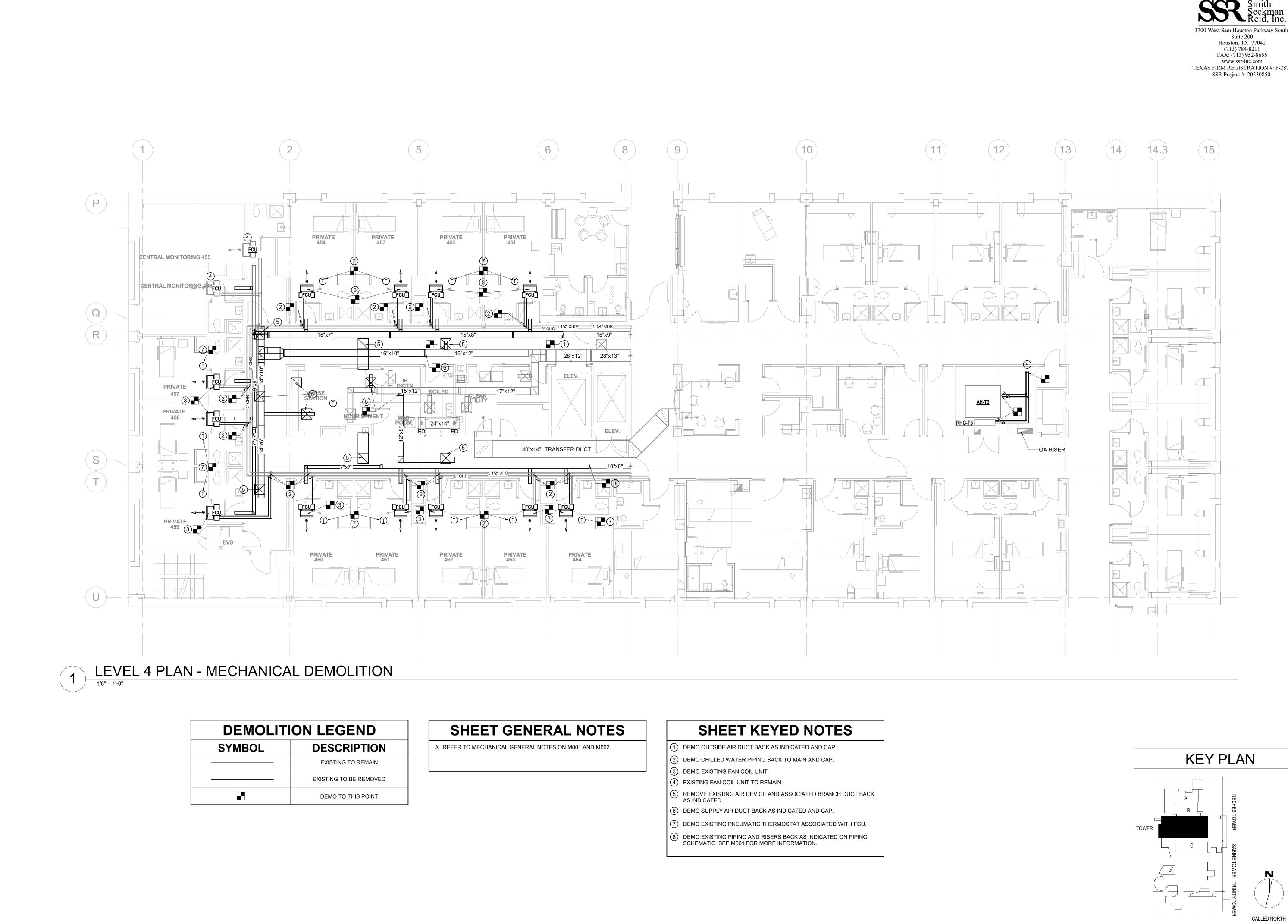




DRAWINGS SHEET TITLE

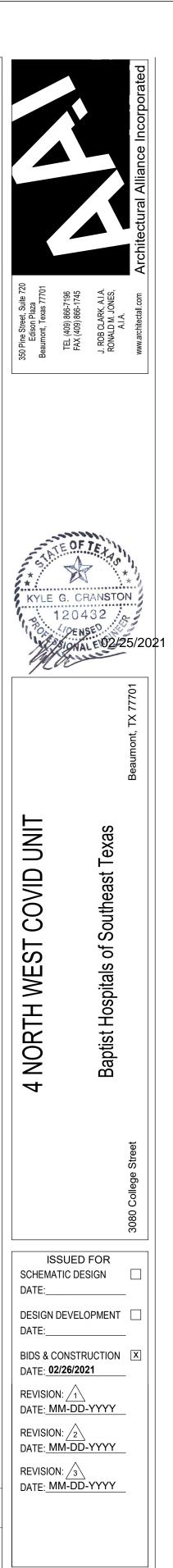
MECHANICAL -SCHEDULES







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DRAWINGS SHEET TITLE

MECHANICAL

LEVEL 4 PLAN

- DEMOLITION

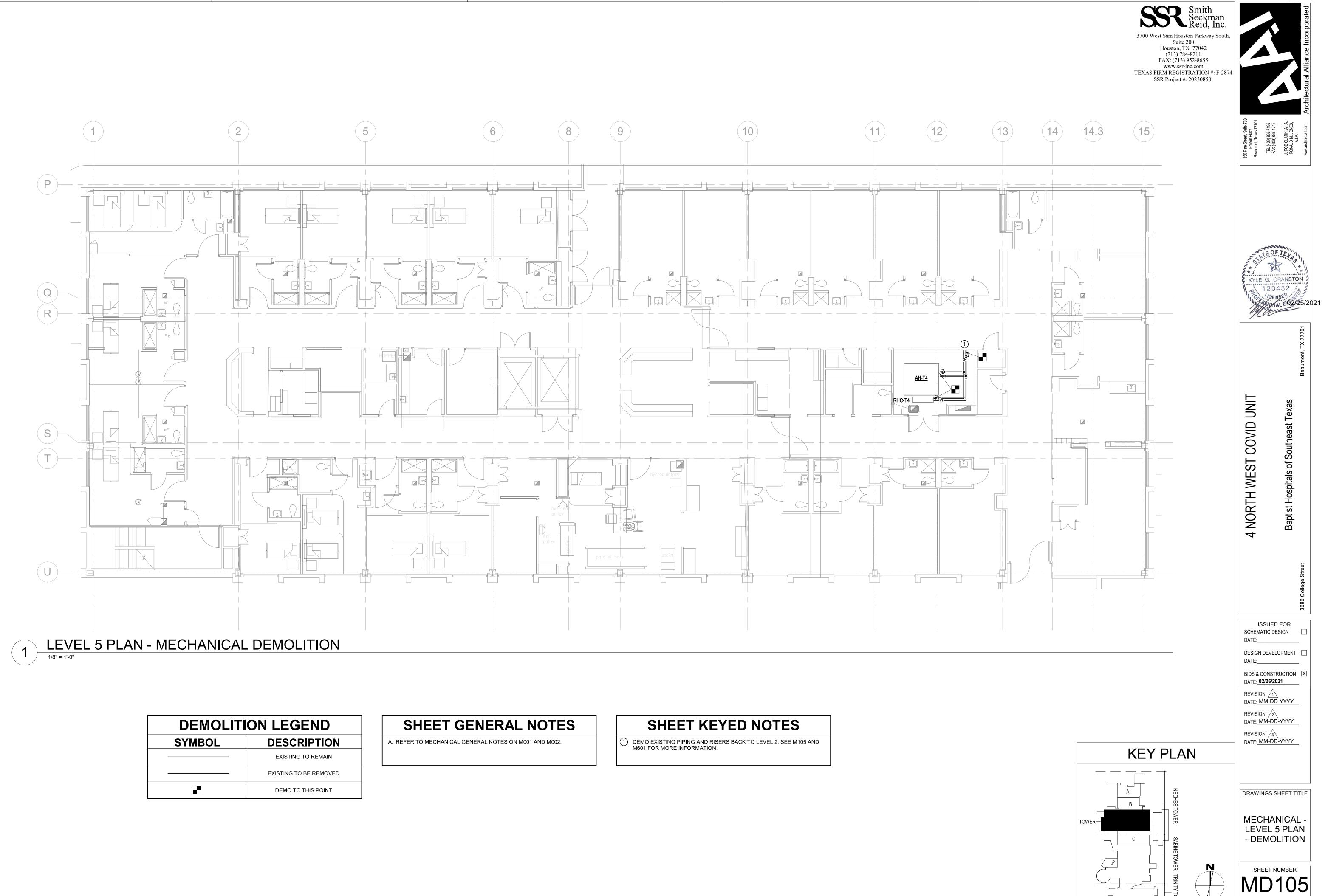
SHEET NUMBER

MD104

20109

PROJECT NUMBER

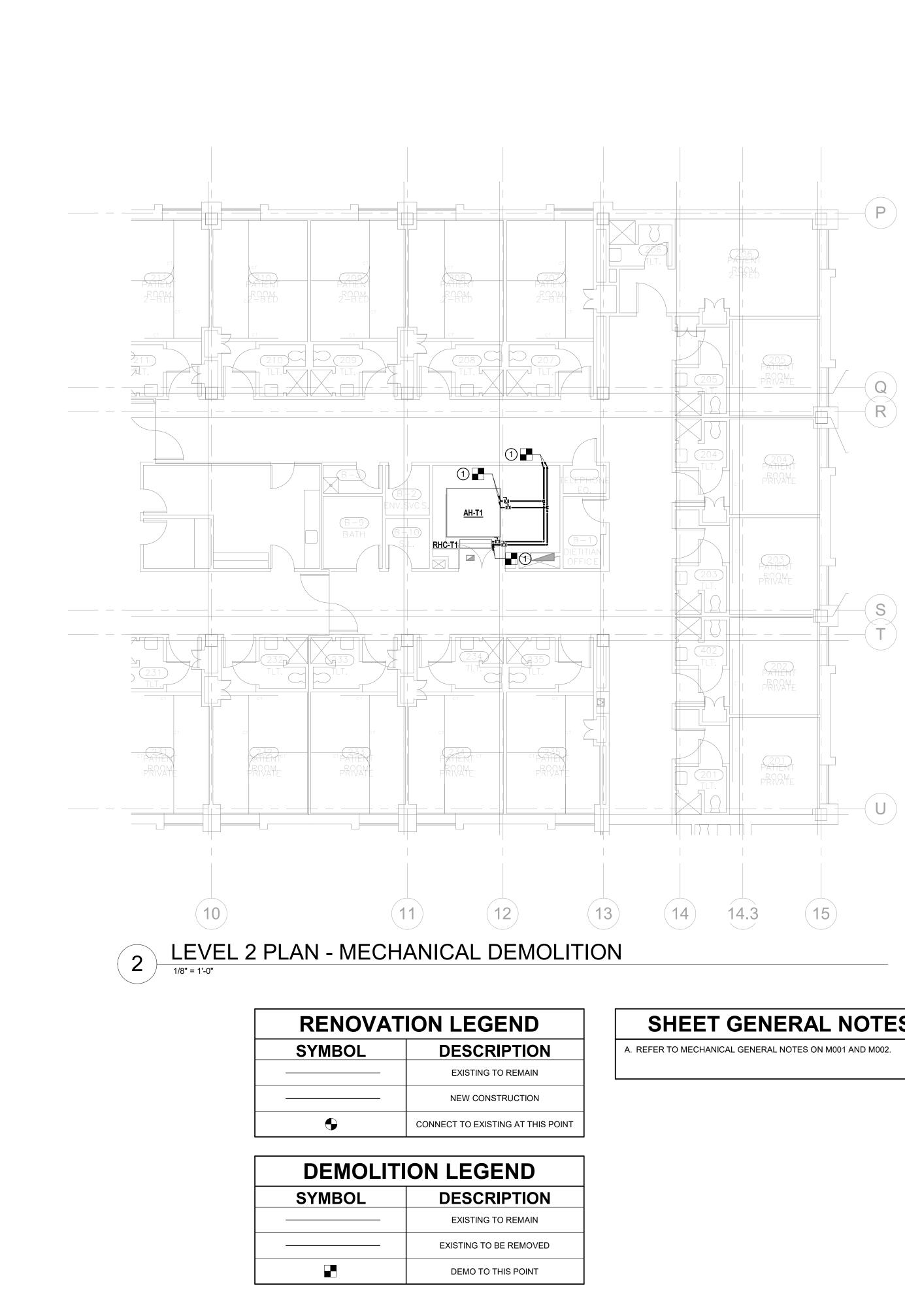
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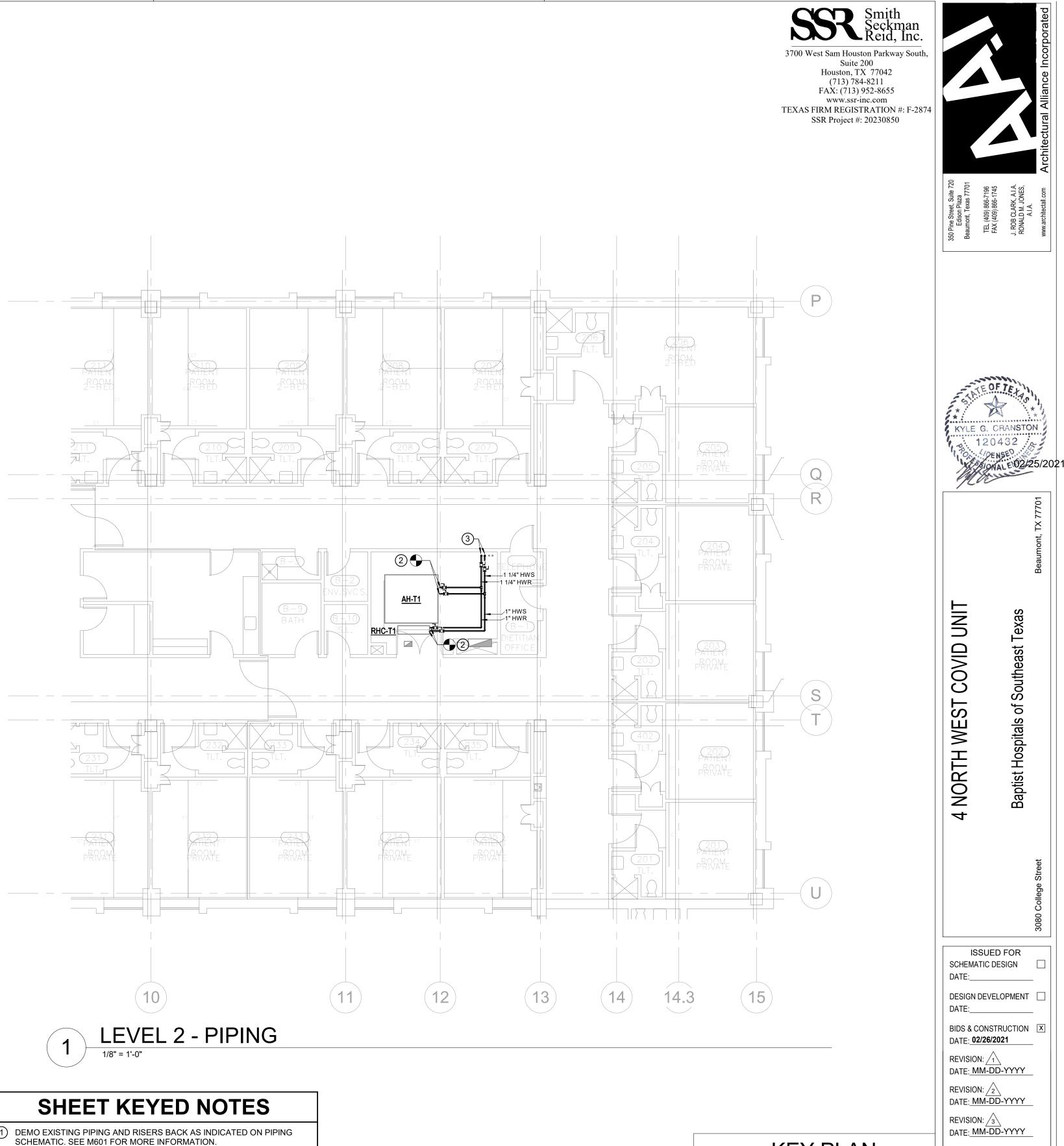
DEMOLITI	DEMOLITION LEGEND						
SYMBOL	DESCRIPTION						
	EXISTING TO REMAIN						
	EXISTING TO BE REMOVED						
	DEMO TO THIS POINT						

CALLED NORTH PROJECT NUMBER

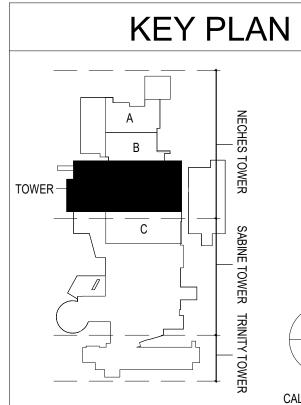
20109



SHEET GENERAL NOTES



- PROVIDE NEW HEATING HOT WATER PIPING TO EXISTING AIR HANDLING UNIT AND EXISTING REHEAT COIL PER SCHEMATIC ON M601.
- NEW 2-1/2" HEATING HOT WATER SUPPLY AND RETURN PIPE RISERS PER SCHEMATIC ON M601.



CALLED NORTH

Ν

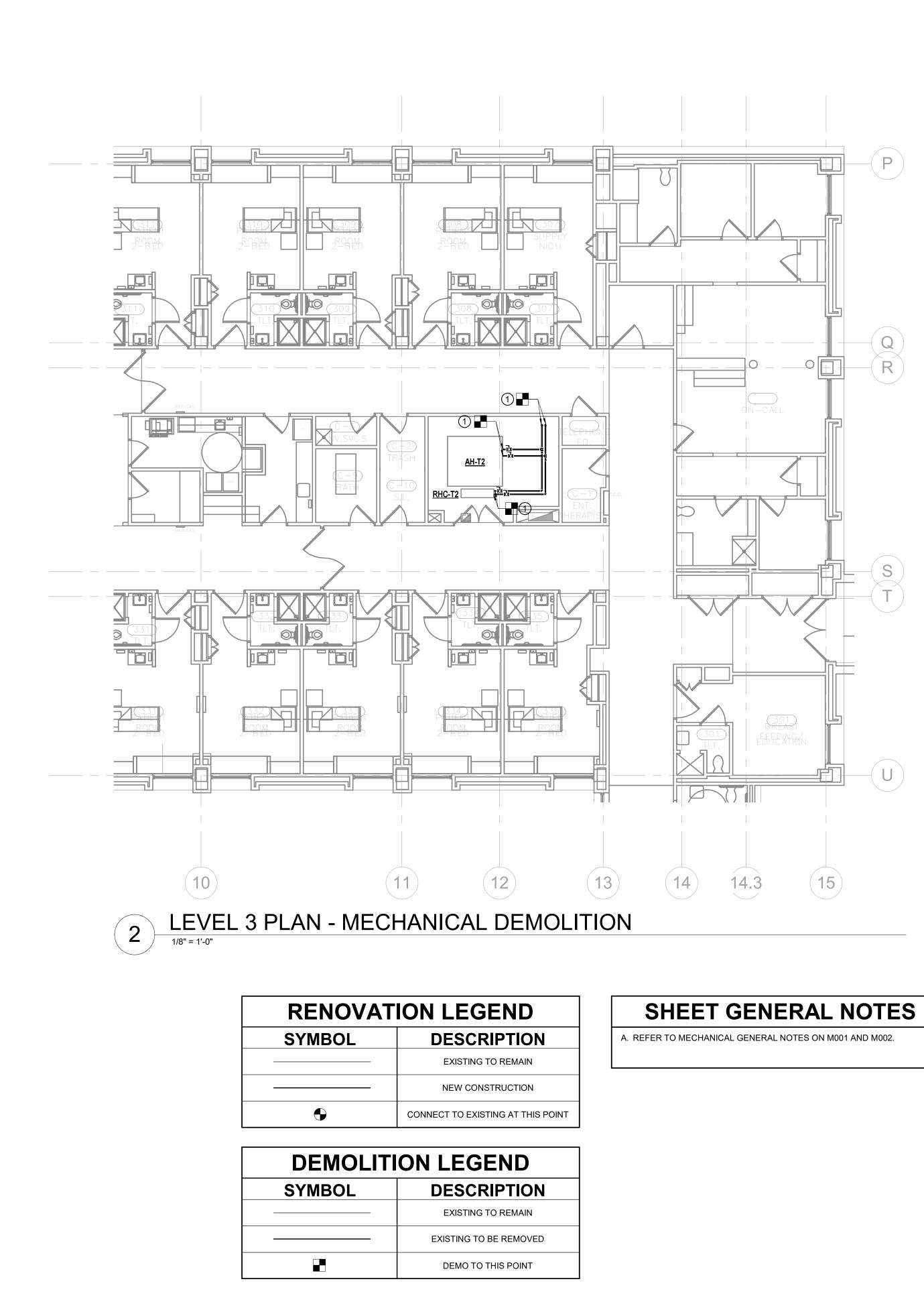
DRAWINGS SHEET TITLE

MECHANICAL LEVEL 2 PLAN

SHEET NUMBER

M102

20109



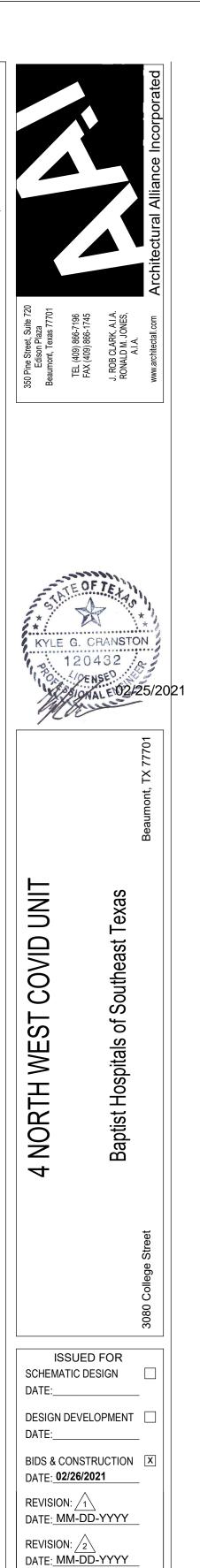
_____<u>IE</u> 2^R992Hb] 🗖 🛄 RHC-T2 ____ 10 (11) LEVEL 3 - PIPING 1 1/8" = 1'-0"

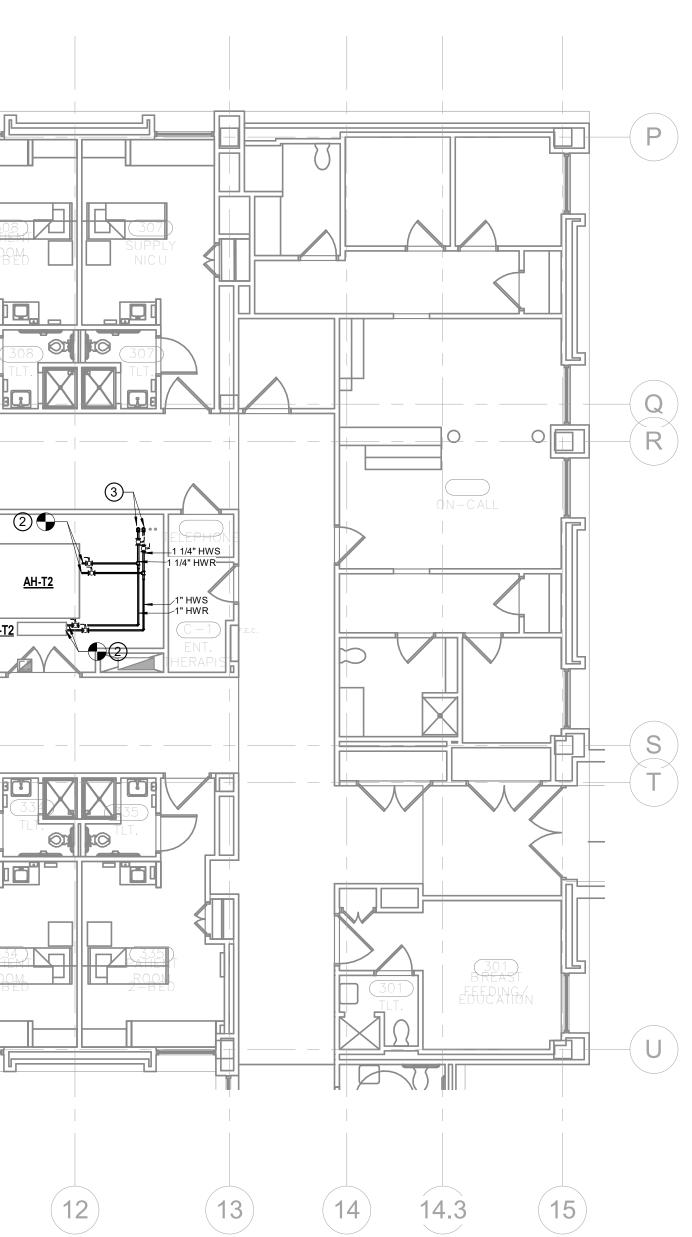
SHEET KEYED NOTES

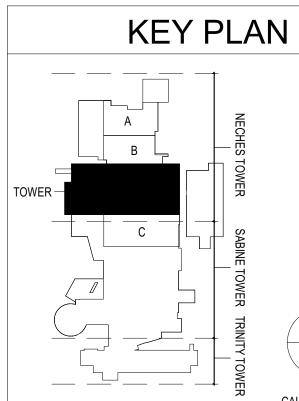
- 1 DEMO EXISTING PIPING AND RISERS BACK AS INDICATED ON PIPING SCHEMATIC. SEE M601 FOR MORE INFORMATION.
-) PROVIDE NEW HEATING HOT WATER PIPING TO EXISTING AIR HANDLING UNIT AND EXISTING REHEAT COIL PER SCHEMATIC ON M601.
- 3) NEW 2" HEATING HOT WATER SUPPLY AND RETURN PIPE RISERS PER SCHEMATIC ON M601.



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CALLED NORTH

N

REVISION: 3

DATE: MM-DD-YYYY

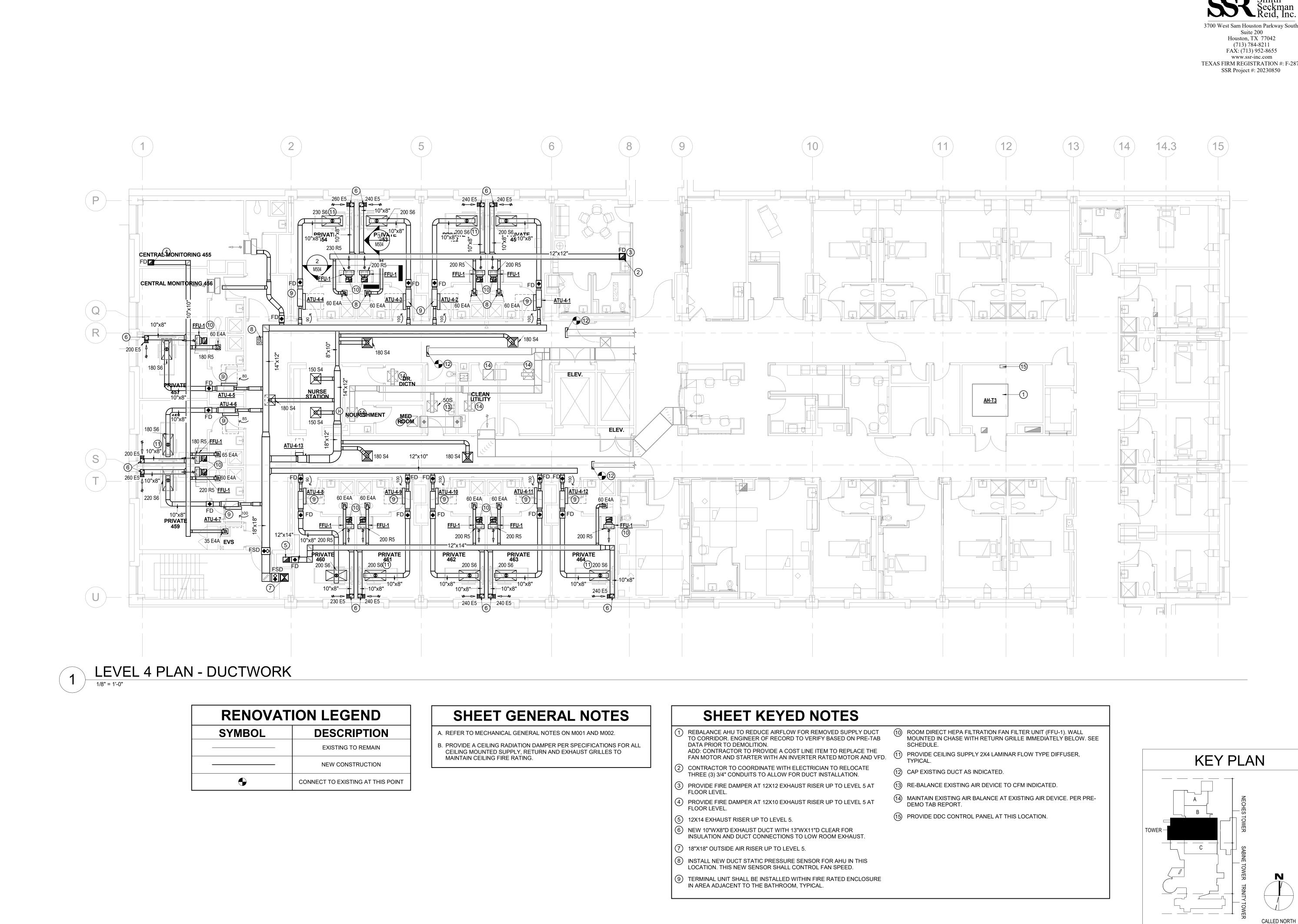
DRAWINGS SHEET TITLE

MECHANICAL LEVEL 3 PLAN

SHEET NUMBER

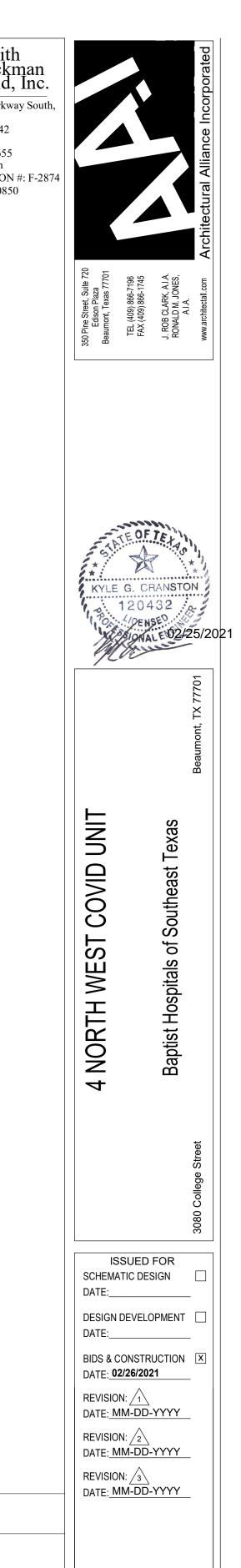
M103

20109



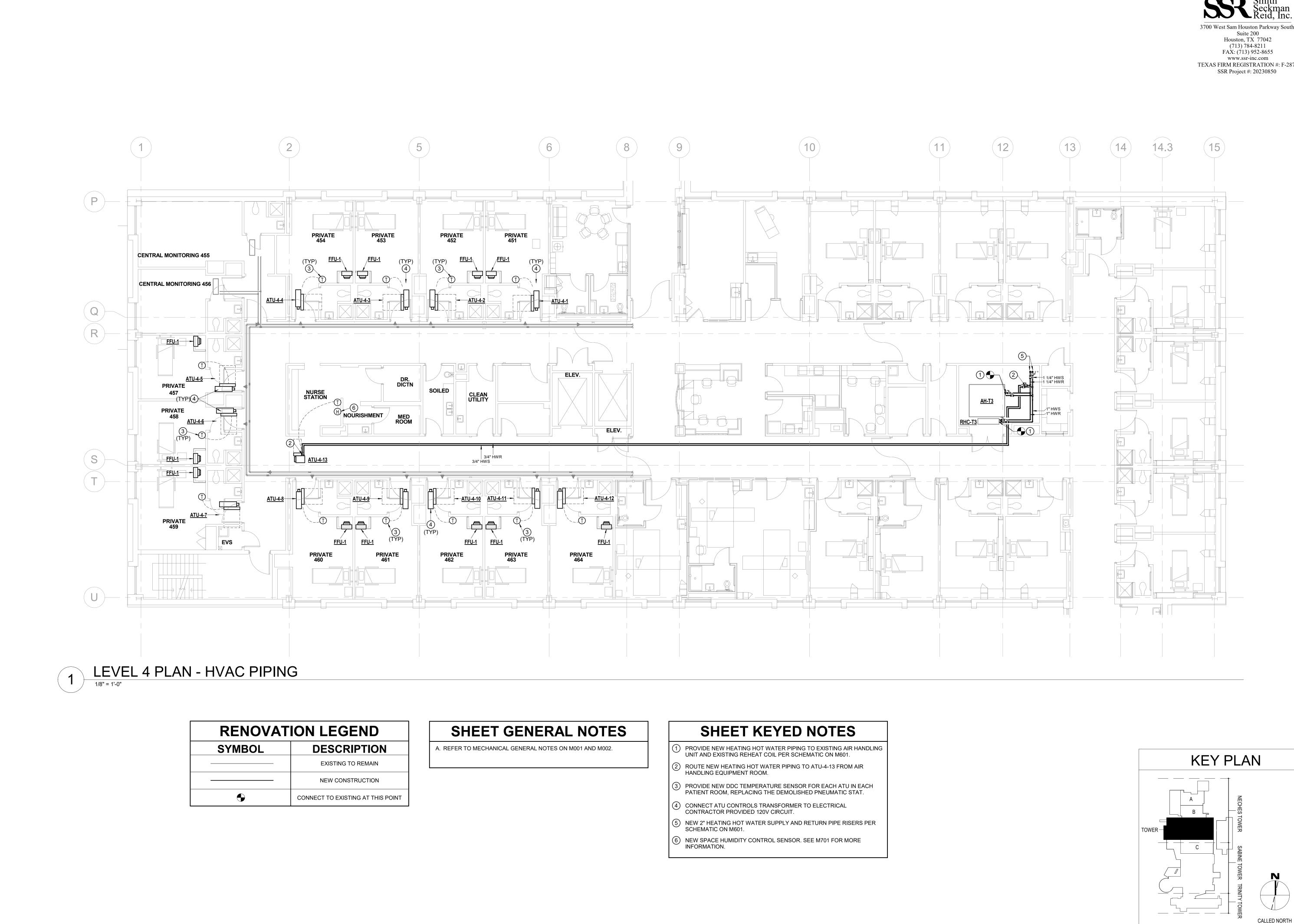


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DRAWINGS SHEET TITLE

MECHANICAL

LEVEL 4 PLAN

- PIPING

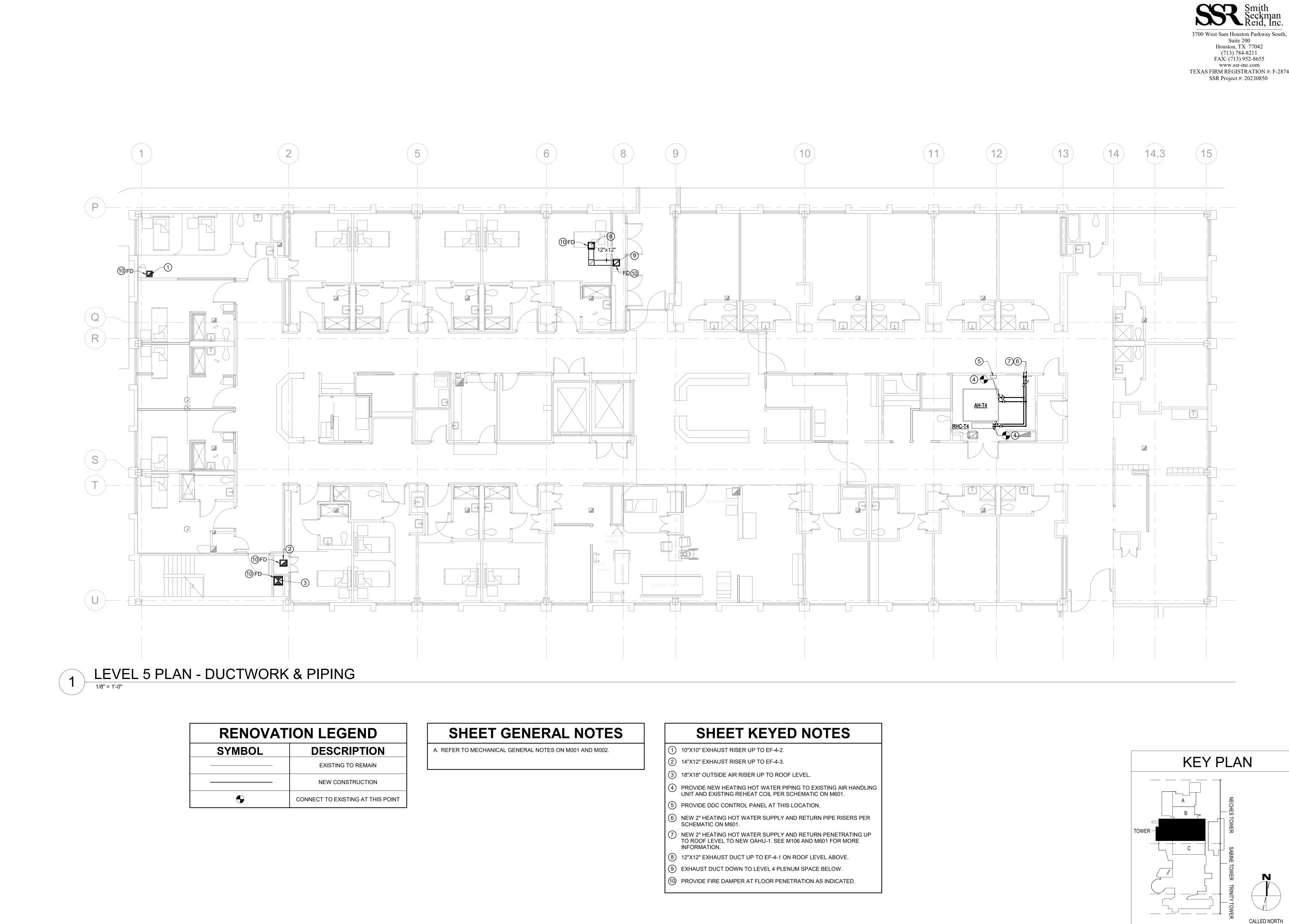
SHEET NUMBER

MP104

20109

PROJECT NUMBER

N

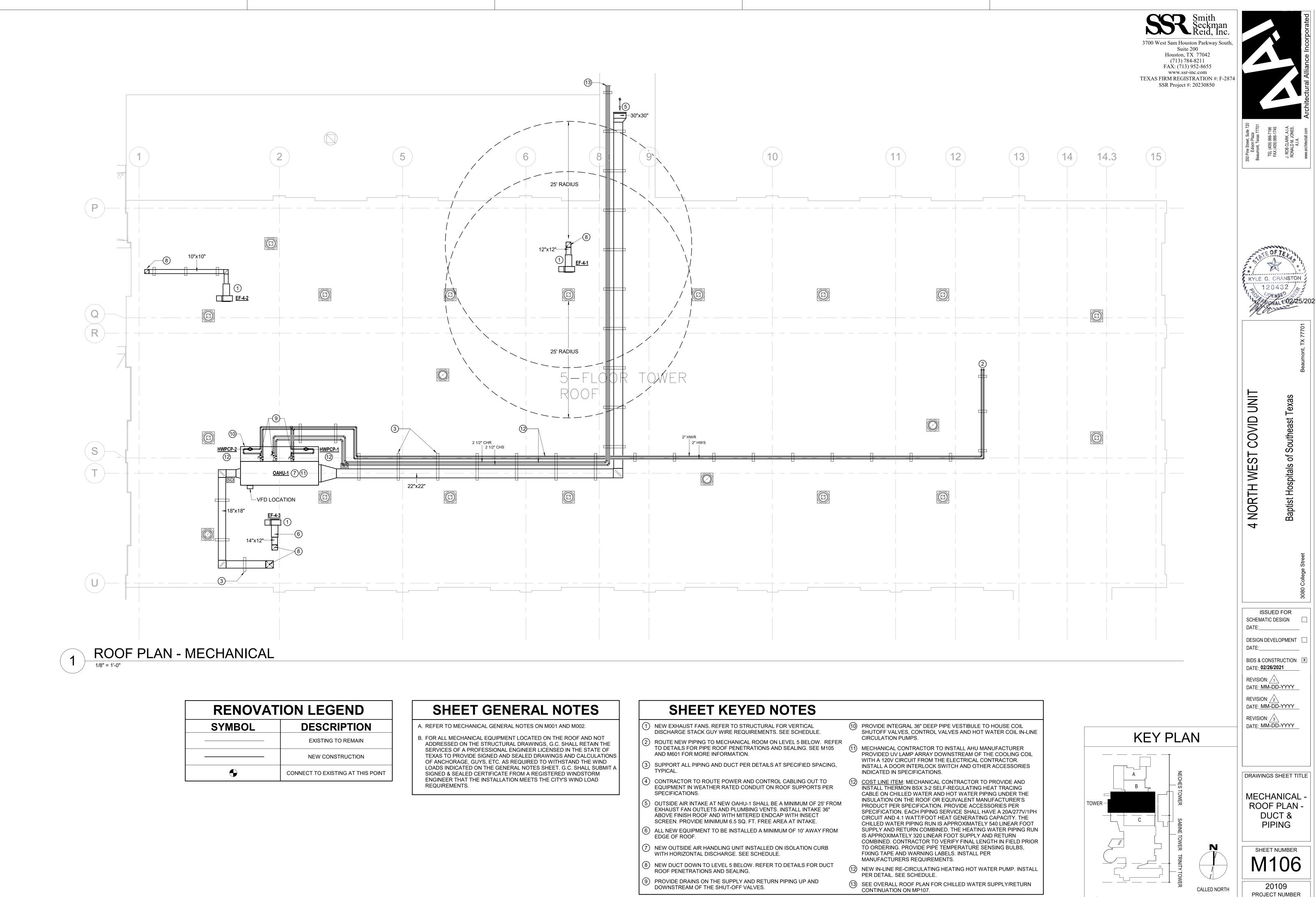


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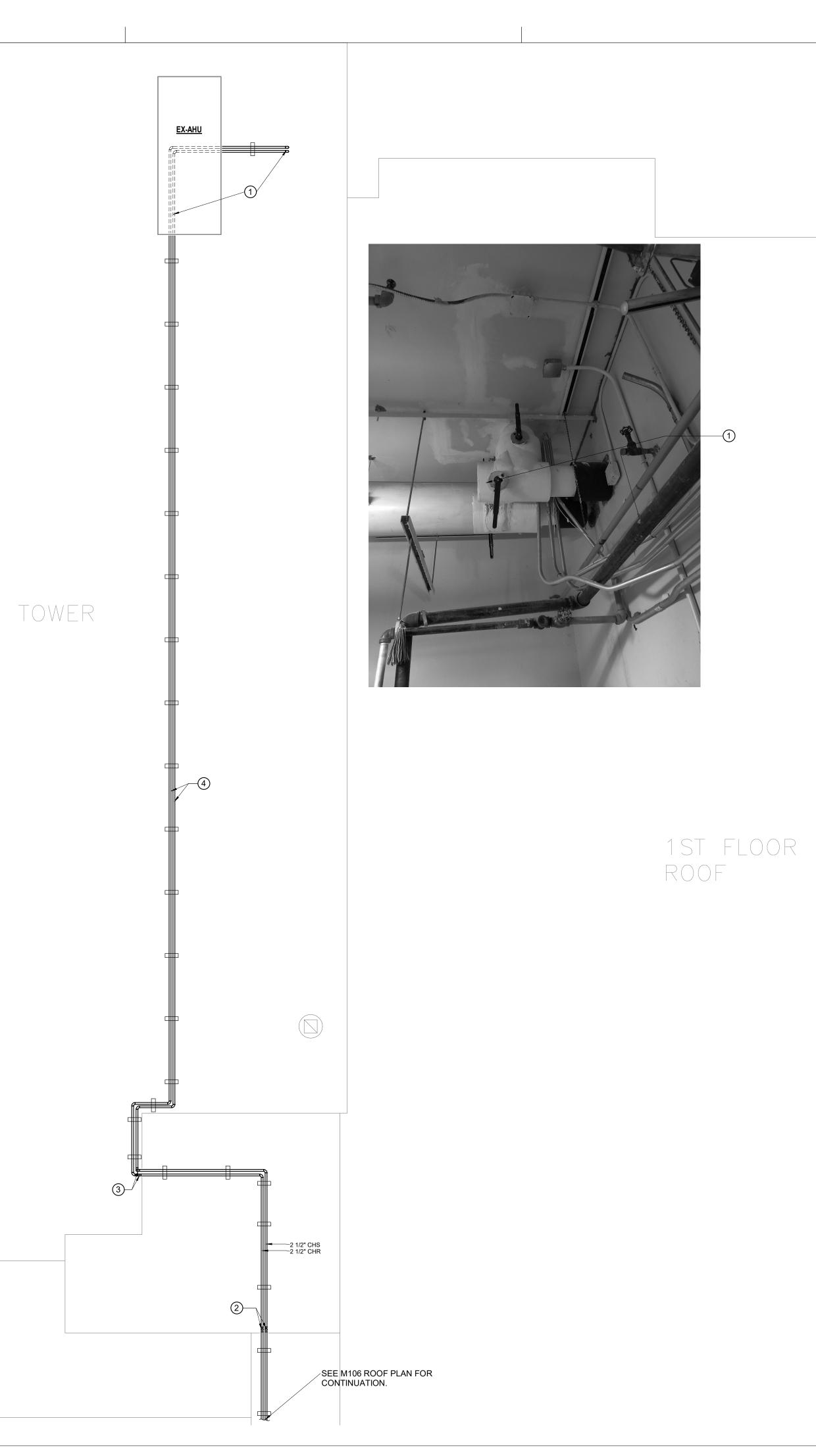


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KYLE G.	CRANSTON 0432 ENSE MALE 02/25/2	2021
	Beaumont, TX 77701	
4 NORTH WEST COVID UNIT	Baptist Hospitals of Southeast Texas	
	3080 College Street	,
SCHEMATIC DATE:		
DATE:		
DATE: 02/20 REVISION: 2	1	
DATE: 02/20 REVISION: 2 DATE: MM- REVISION: 2	6/2021	
DATE: 02/20 REVISION: 2 DATE: MM- REVISION: 2 DATE: MM-	5/2021 DD-YYYY 2 DD-YYYY	
DATE: 02/20 REVISION: 2 DATE: MM- REVISION: 2 DATE: MM- REVISION: 2 DATE: MM-	6/2021	
DATE: 02/20 REVISION: 2 DATE: MM- REVISION: 2 DATE: MM- REVISION: 2 DATE: MM- DATE: MM-	5/2021	Ē
DATE: 02/20 REVISION: 2 DATE: MM- REVISION: 2 DATE: MM- REVISION: 2 DATE: MM- CORAWING: MECH ROOF DU PI	5/2021 DD-YYYY DD-YYYY DD-YYYY 3 DD-YYYY S SHEET TITLI ANICAL - PLAN - JCT &	Ē







SSR Smith Seckman Reid, Inc. 3700 West Sam Houston Parkway South, Suite 200 Houston, TX 77042 (713) 784-8211 FAX: (713) 952-8655 www.ssr-inc.com TEXAS FIRM REGISTRATION #: F-2874 SSR Project #: 20230850

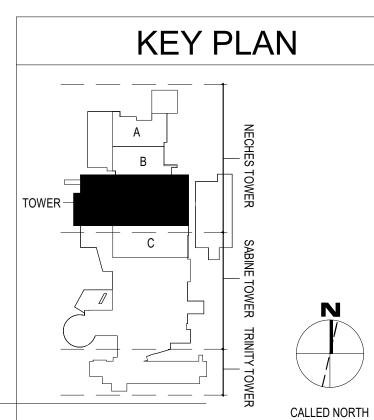
RENOVATION LEGEND							
SYMBOL	DESCRIPTION						
	EXISTING TO REMAIN						
	NEW CONSTRUCTION						
\bullet	CONNECT TO EXISTING AT THIS POINT						

SHEET GENERAL NOTES

A. REFER TO MECHANICAL GENERAL NOTES ON M001 AND M002.

SHEET KEYED NOTES

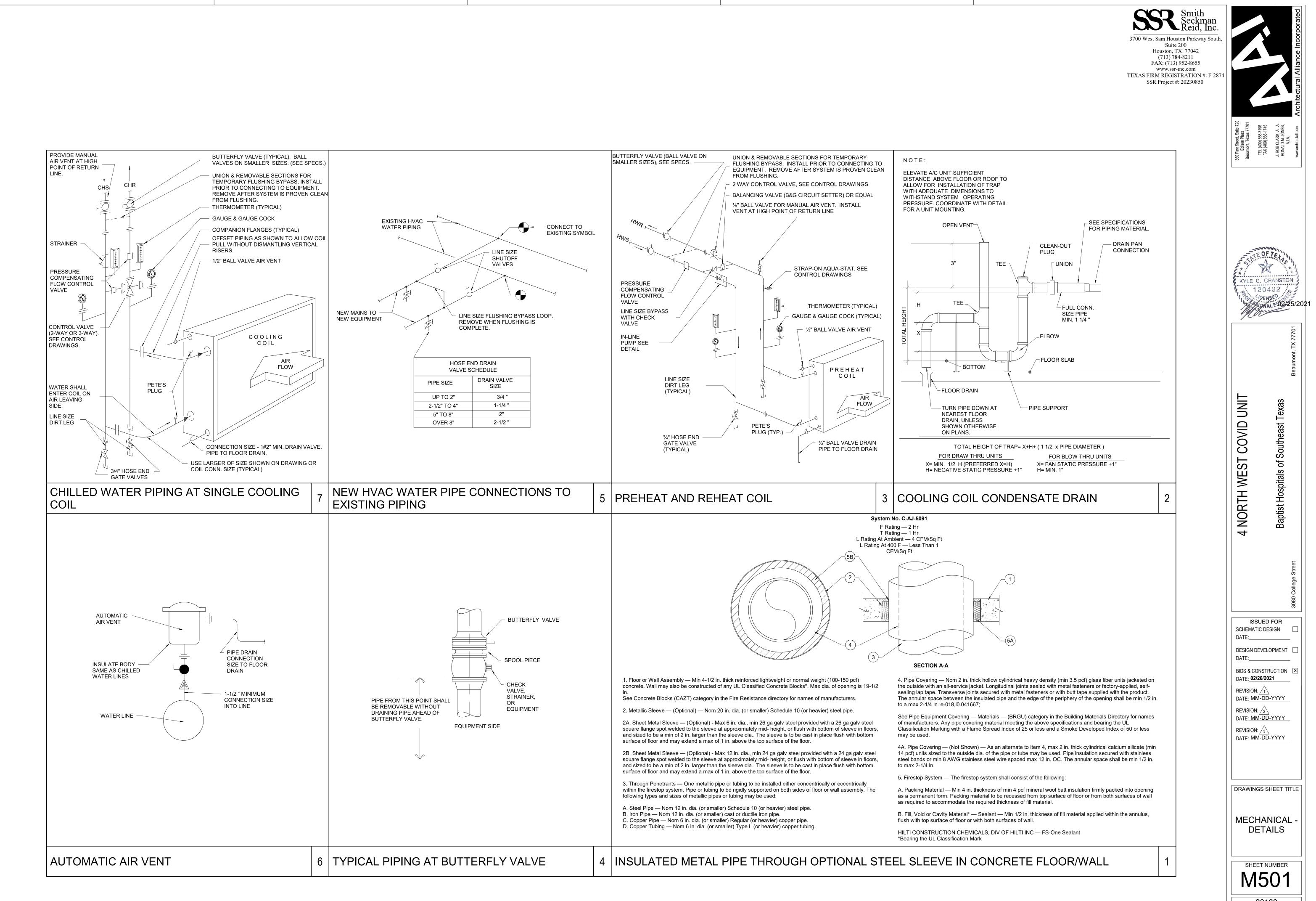
- 1 ROUTE PIPING UNDERNEATH EXISTING AHU SUPPORT STRUCTURE ON ROOF LEVEL DOWN TO MECHANICAL ROOM AND TIE-IN NEW CHILLED WATER SUPPLY/RETURN TO EXISTING AT BLIND FLANGE. SEE PICTURE (THIS SHEET) FOR REFERENCE.
- (2) PIPE DROP DOWN TO 5TH FLOOR ROOF. PROVIDE VERTICAL PIPE SUPPORTS PER DETAIL.
- 3 PIPE RISE UP TO ELEVATOR TOWER ROOF. PROVIDE VERTICAL PIPE SUPPORTS PER DETAIL.
- (4) <u>COST LINE ITEM</u>: CHILLED WATER HEAT TRACING INDICATED ON SHEET M106 CONTINUES ON THIS SHEET UNTIL PIPING ENTERS THE BUILDING THROUGH THE CEILING.

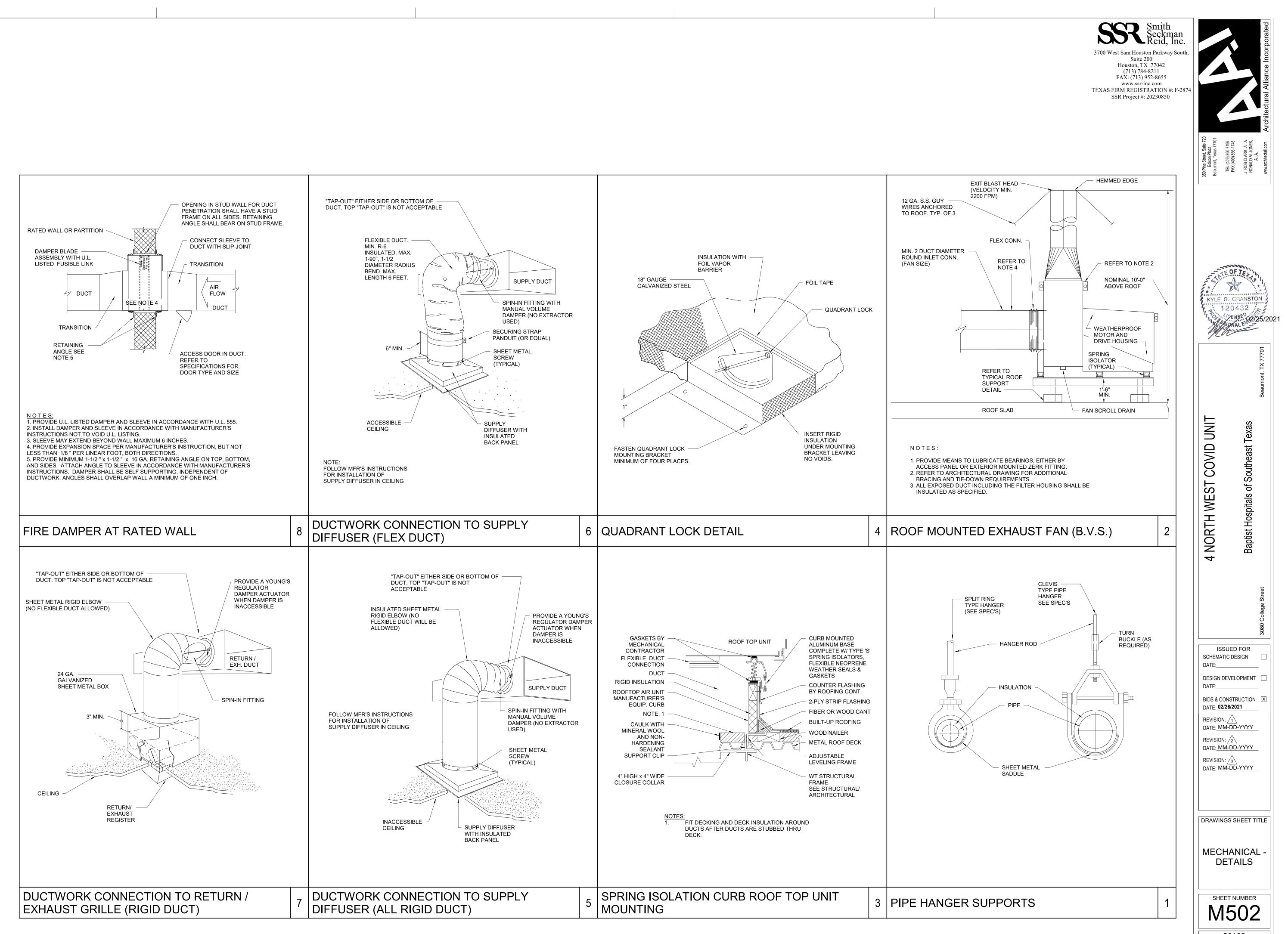


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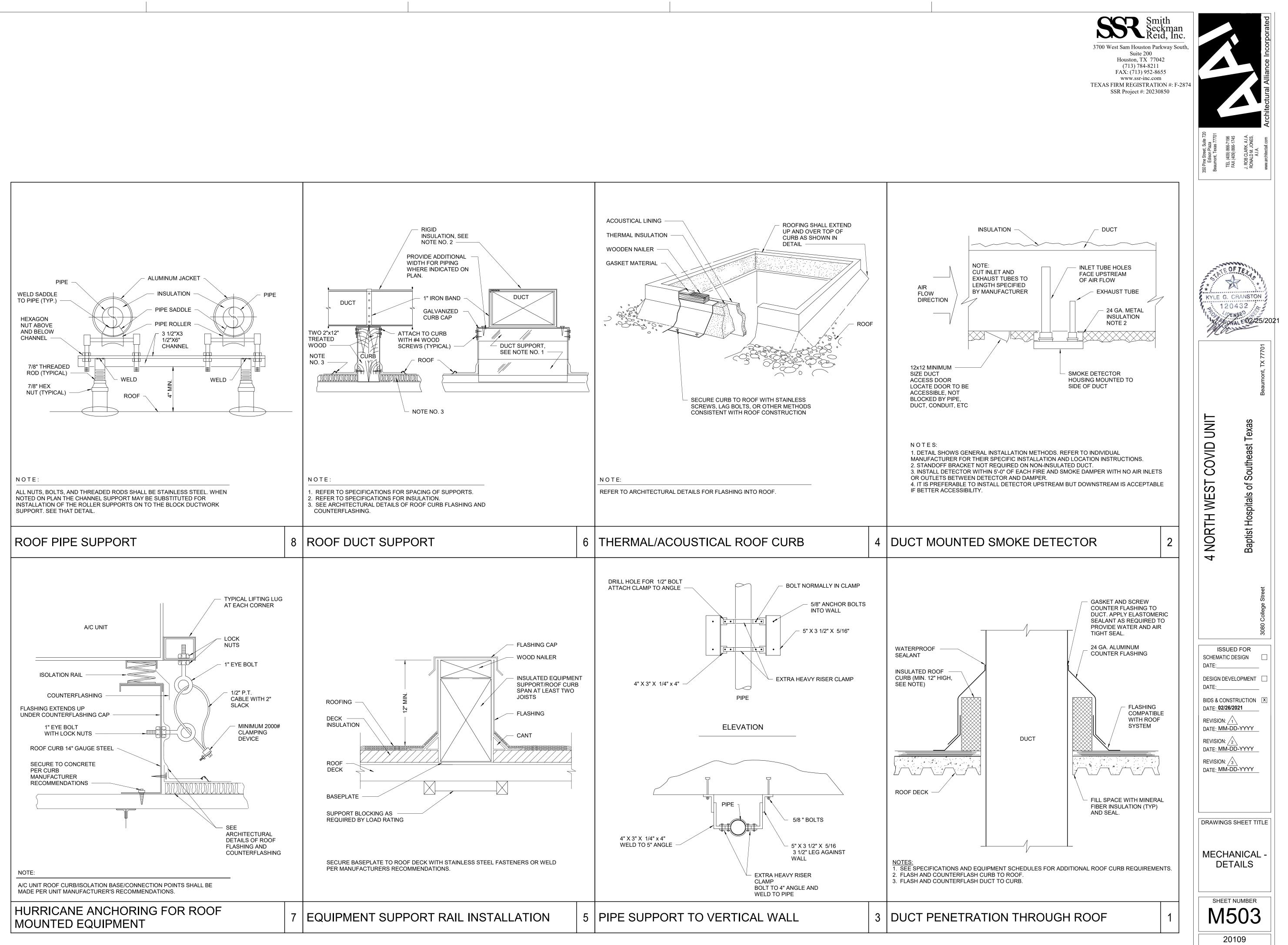




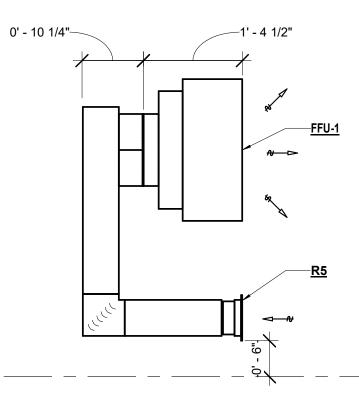


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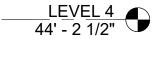


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TYPICAL WALL MOUNTED FFU SECTION VIEW 3 3/4" = 1'-0"

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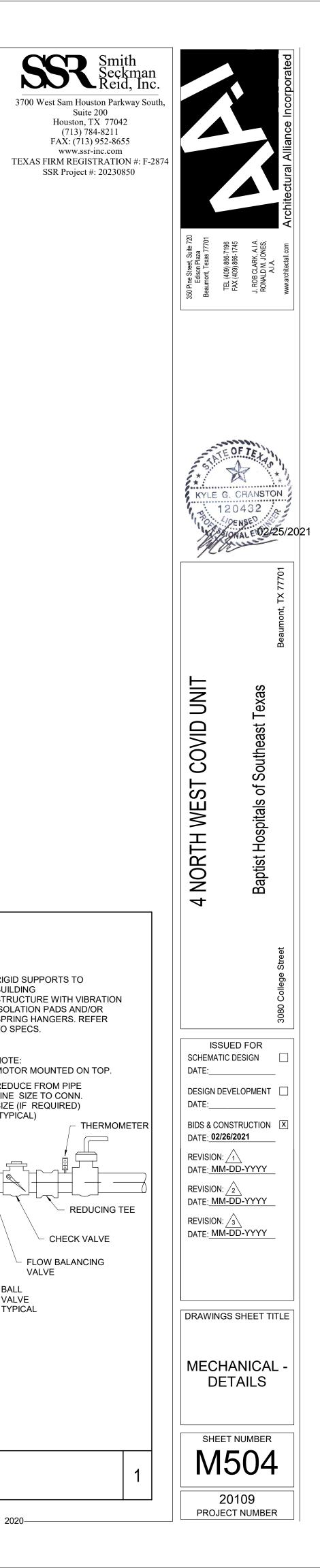
LEVEL 4 44' - 2 1/2"



TYPICAL WALL MOUNTED FFU FRONT VIEW 3/4" = 1'-0"

1' - 11 5/8"

14"x6"___



RIGID SUPPORTS TO BUILDING STRUCTURE WITH VIBRATION ISOLATION PADS AND/OR SPRING HANGERS. REFER TO SPECS.

MOTOR MOUNTED ON TOP.

 \square

- REDUCING TEE

CHECK VALVE

- FLOW BALANCING

VALVE

- BALL VALVE TYPICAL -----

REDUCE FROM PIPE LINE SIZE TO CONN. SIZE (IF REQUIRED) (TYPICAL)

NOTE:

1/2"

IN-LINE CIRCULATING PUMP

BUTTERFLY VALVE (TYPICAL) (BALL VALVE IF LESS THAN 2 1/2" SIZE)

REDUCING TEE

COMPANION FLANGE TYPE CONNECTIONS (INSTALL PIPE SO PUMP CAN BE

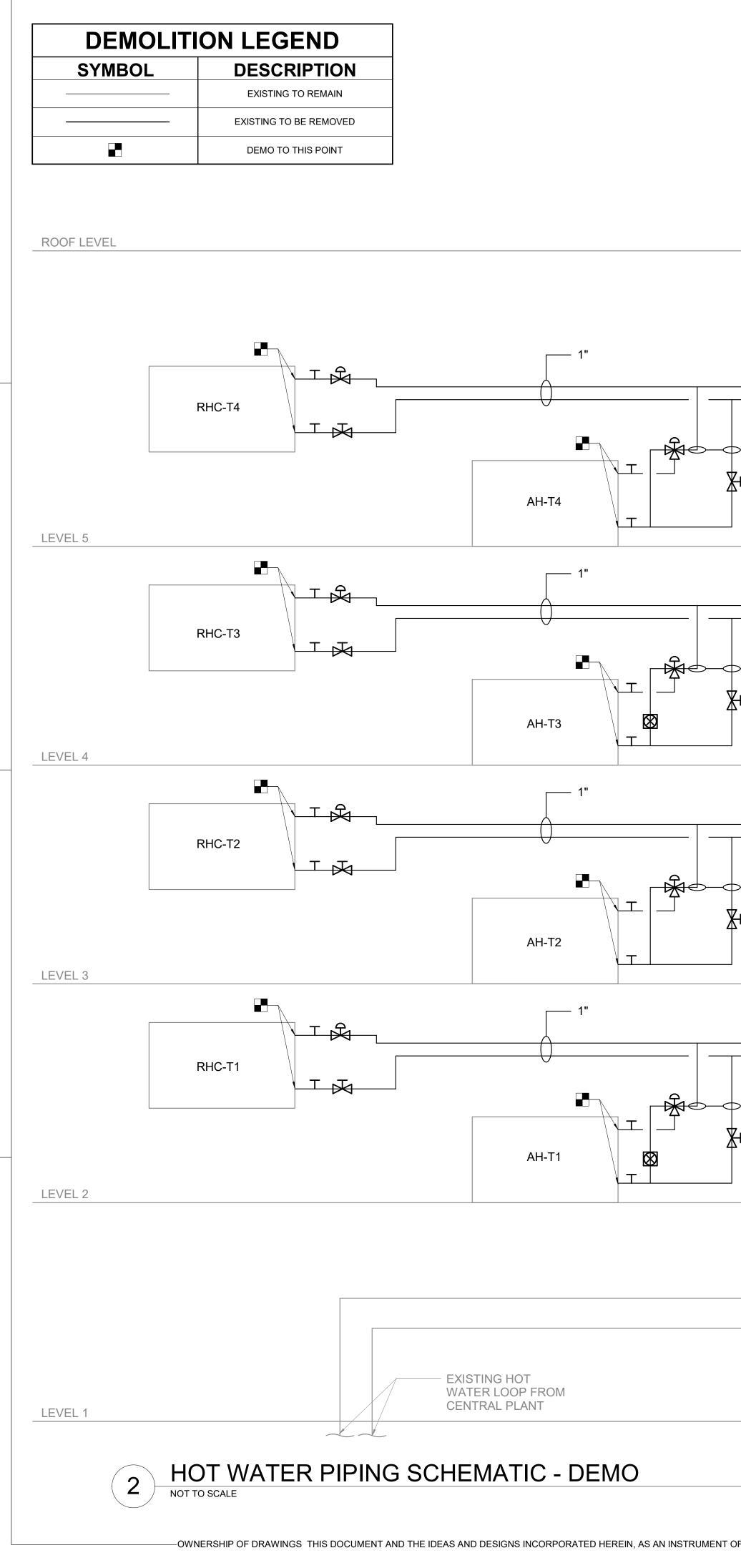
REMOVED FOR REPAIR) ——

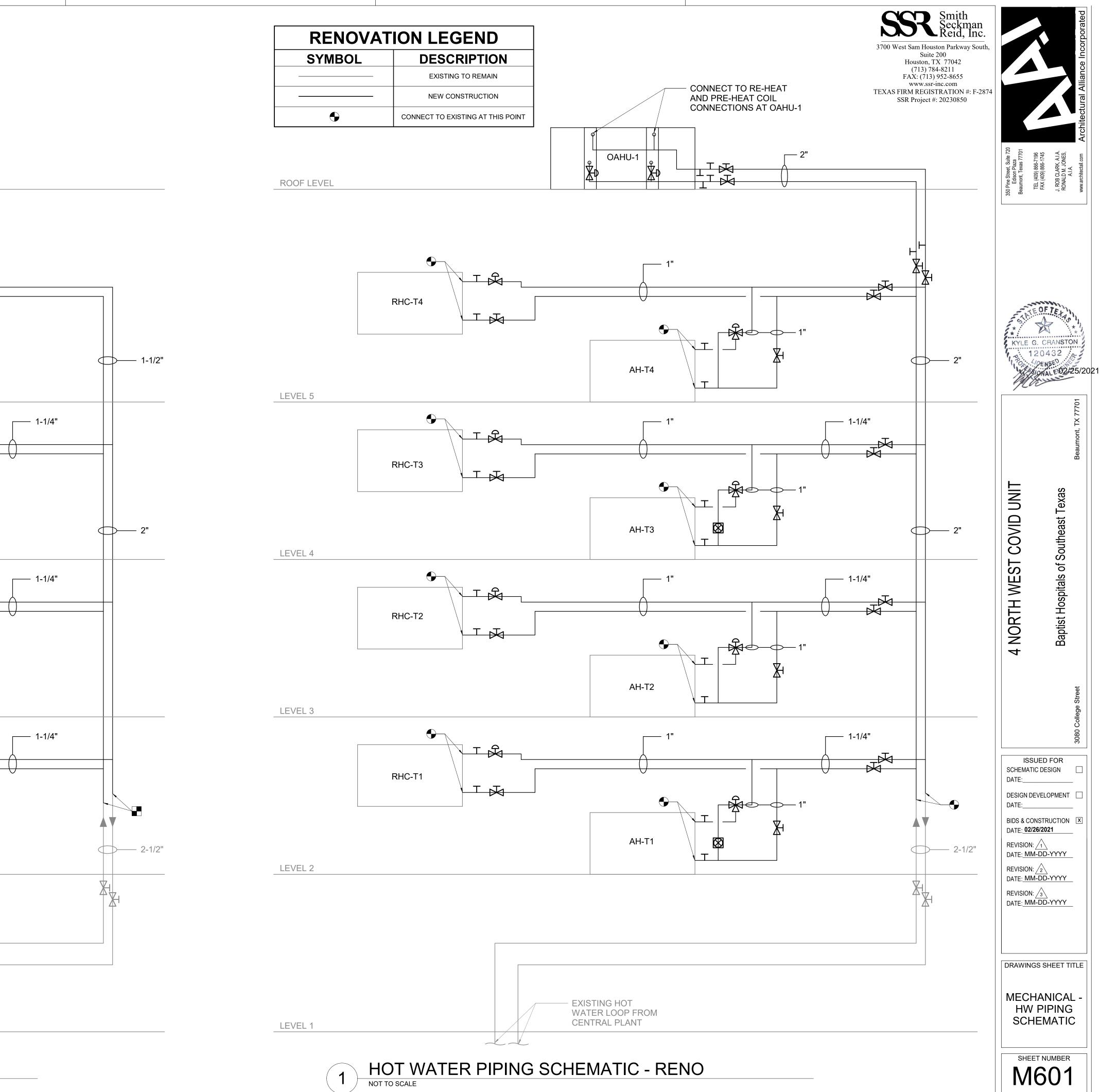
THERMOMETER

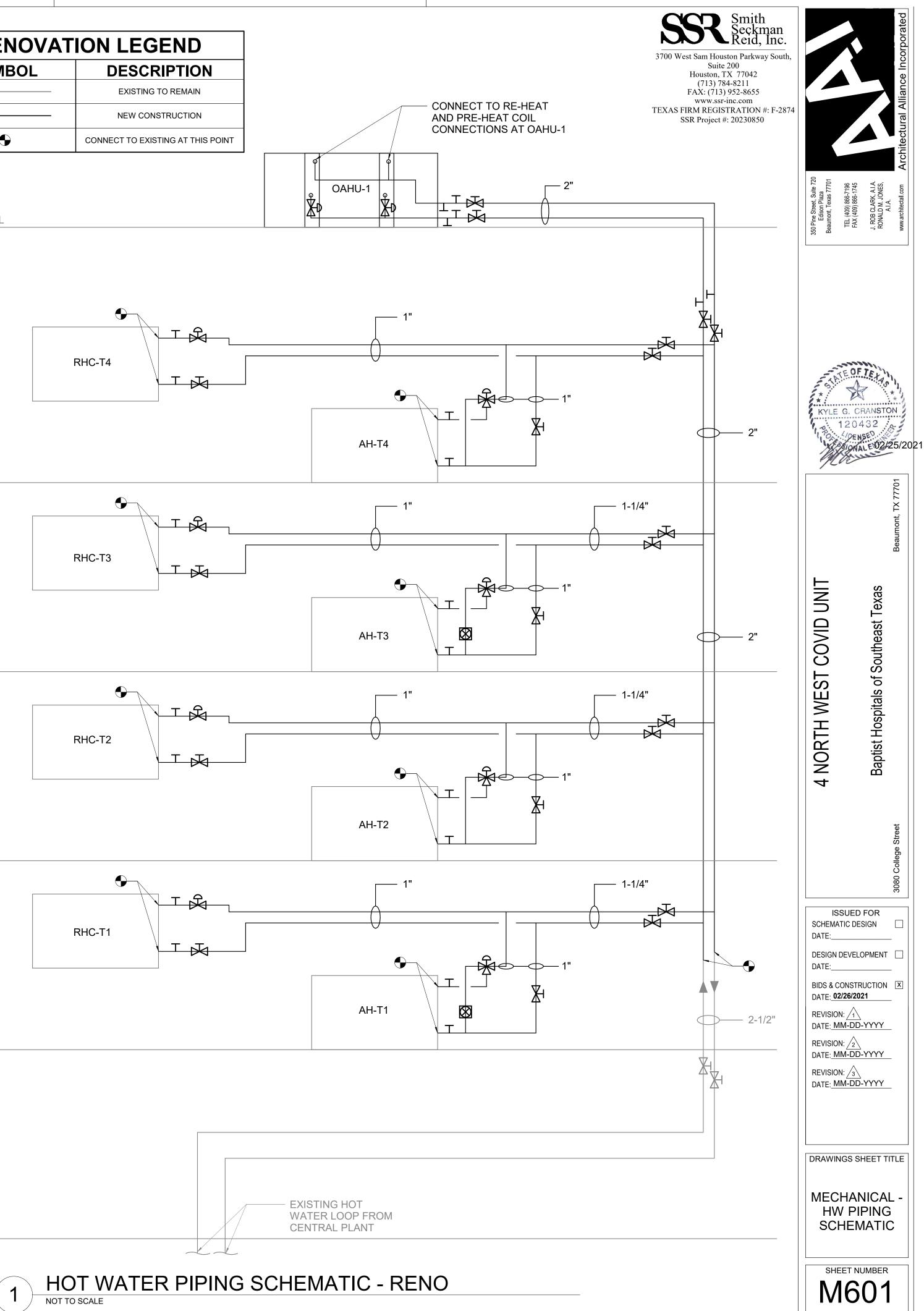
MOTOR

FLOW — 关

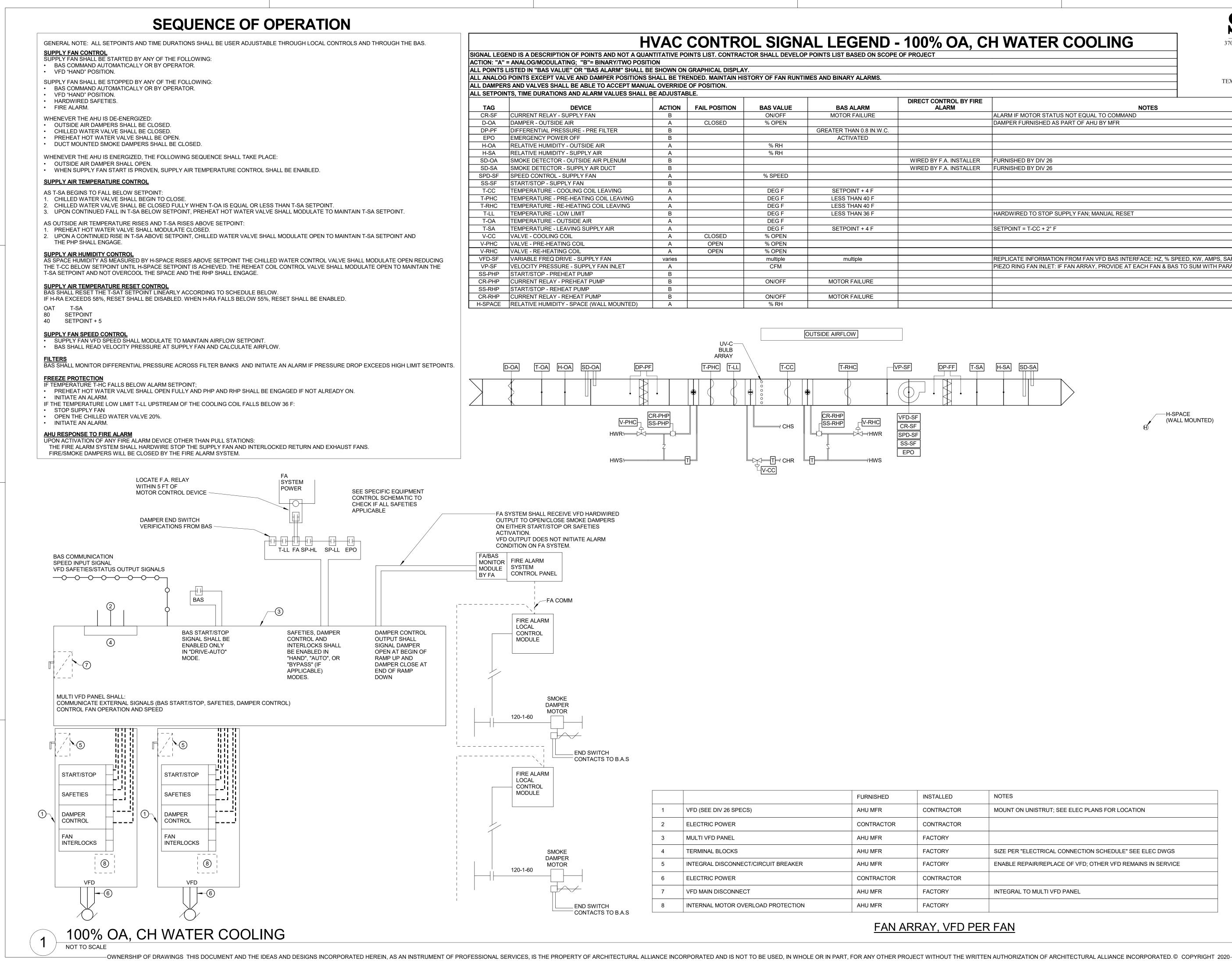
GAUGE AND
 1/4" SHUT-OFF
 COCK







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		FURNISHED	INSTALLED
1	VFD (SEE DIV 26 SPECS)	AHU MFR	CONTRACTOR
2	ELECTRIC POWER	CONTRACTOR	CONTRACTOR
3	MULTI VFD PANEL	AHU MFR	FACTORY
4	TERMINAL BLOCKS	AHU MFR	FACTORY
5	INTEGRAL DISCONNECT/CIRCUIT BREAKER	AHU MFR	FACTORY
6	ELECTRIC POWER	CONTRACTOR	CONTRACTOR
7	VFD MAIN DISCONNECT	AHU MFR	FACTORY
8	INTERNAL MOTOR OVERLOAD PROTECTION	AHU MFR	FACTORY

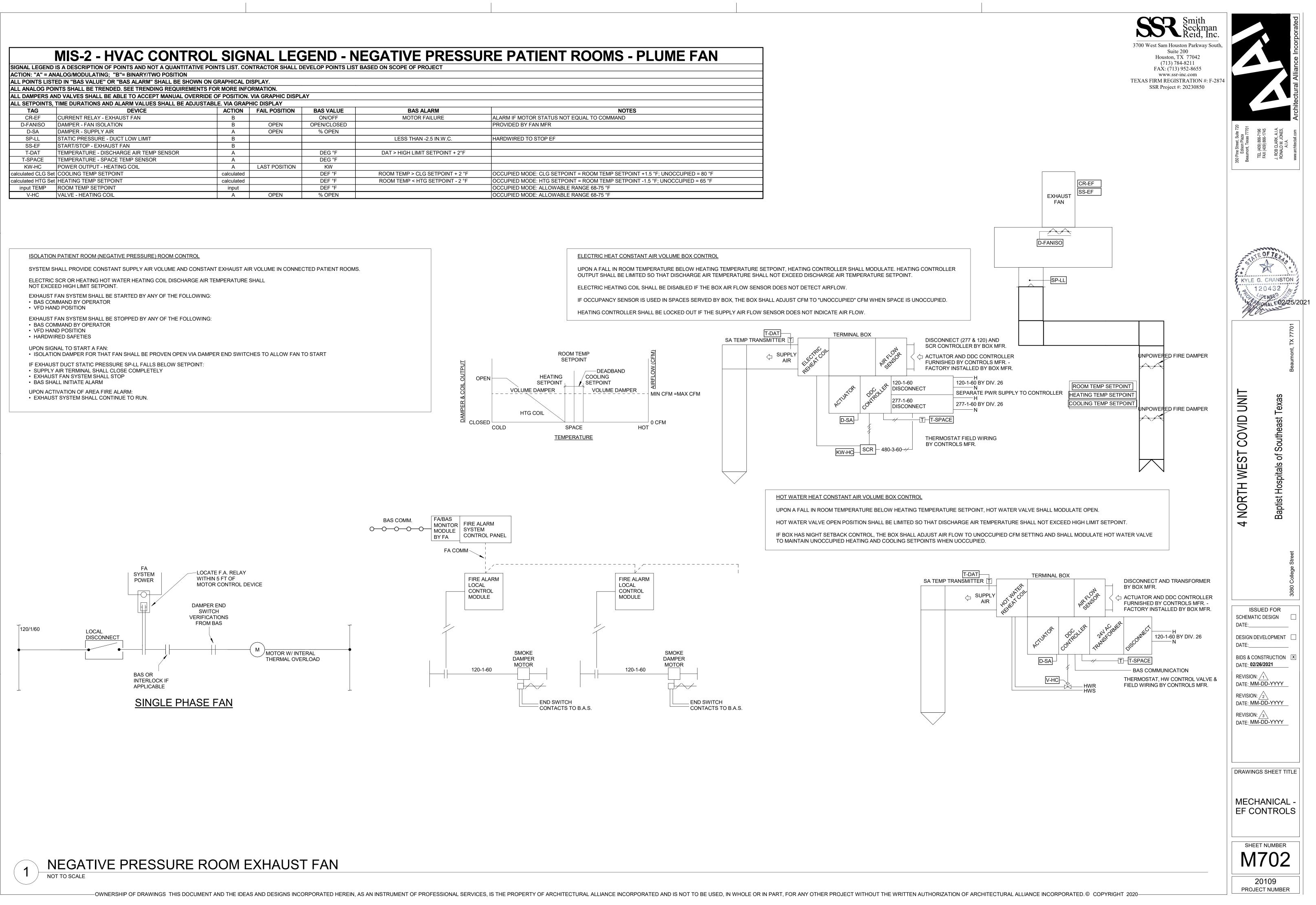
SSR Smith Seckman Reid, Inc.
3700 West Sam Houston Parkway South, Suite 200

Houston, TX 77042 (713) 784-8211 FAX: (713) 952-8655 www.ssr-inc.com **TEXAS FIRM REGISTRATION #: F-287** SSR Project #: 20230850

	SSR Project #: 2023085
E	
	NOTES
	ALARM IF MOTOR STATUS NOT EQUAL TO COMMAND
	DAMPER FURNISHED AS PART OF AHU BY MFR
२	FURNISHED BY DIV 26
२	FURNISHED BY DIV 26
	HARDWIRED TO STOP SUPPLY FAN; MANUAL RESET
	SETPOINT = T-CC + 2° F
	REPLICATE INFORMATION FROM FAN VFD BAS INTERFACE: HZ, % SPEED, KW, AMPS, SAFETIES, FAULTS
	PIEZO RING FAN INLET: IF FAN ARRAY, PROVIDE AT EACH FAN & BAS TO SUM WITH PARAGON SUMMING PANEL

NOTES
MOUNT ON UNISTRUT; SEE ELEC PLANS FOR LOCATION
SIZE PER "ELECTRICAL CONNECTION SCHEDULE" SEE ELEC DWGS
ENABLE REPAIR/REPLACE OF VFD; OTHER VFD REMAINS IN SERVICE
INTEGRAL TO MULTI VFD PANEL

IS SCHEMA DATE:	4 NORTH WEST COVID UNIT	KYLE BROAD	350 Pine Street, Suite 720 Edison Plaza Beaumont, Texas 77701
		1204	TEL (409) 866-7196 FAX (409) 866-1745
SIGN	Baptist Hospitals of Southeast Texas	RANST	J. ROB CLARK, AJ.A. RONALD M. JONES,
3080 College Street	Bear	Beaumont, TX 77701	www.architectural Alliance Incorporated



E PRESSURE PATIENT ROOMS - PLUME FAN				
OF PROJECT				
BAS ALARM	NOTES			
TOR FAILURE	ALARM IF MOTOR STATUS NOT EQUAL TO COMMAND			
	PROVIDED BY FAN MFR			
THAN -2.5 IN.W.C.	HARDWIRED TO STOP EF			
LIMIT SETPOINT + 2°F				
> CLG SETPOINT + 2 °F	OCCUPIED MODE: CLG SETPOINT = ROOM TEMP SETPOINT +1.5 °F; UNOCCUPIED = 80 °F			
< HTG SETPOINT - 2 °F	OCCUPIED MODE: HTG SETPOINT = ROOM TEMP SETPOINT -1.5 °F; UNOCCUPIED = 65 °F			
	OCCUPIED MODE: ALLOWABLE RANGE 68-75 °F			
	OCCUPIED MODE: ALLOWABLE RANGE 68-75 °F			



SEQUENCE OF OPERATION

GENERAL NOTE: ALL SETPOINTS AND TIME DURATIONS SHALL BE USER ADJUSTABLE.

SUPPLY AIR TEMPERATURE CONTROL

AS T-SA BEGINS TO FALL BELOW SETPOINT: 1. CHILLED WATER VALVE SHALL BEGIN TO CLOSE.

 CHILLED WATER VALVE SHALL BE CLOSED FULLY WHEN T-OA IS EQUAL OR LESS THAN T-SA SETPOINT.
 UPON CONTINUED FALL IN T-SA BELOW SETPOINT PREHEAT HOT WATER VALVE SHALL MODULATE TO DIRECT WATER TO THE COIL AND CLOSE OFF THE BYPASS TO MAINTAIN T-SA SETPOINT.

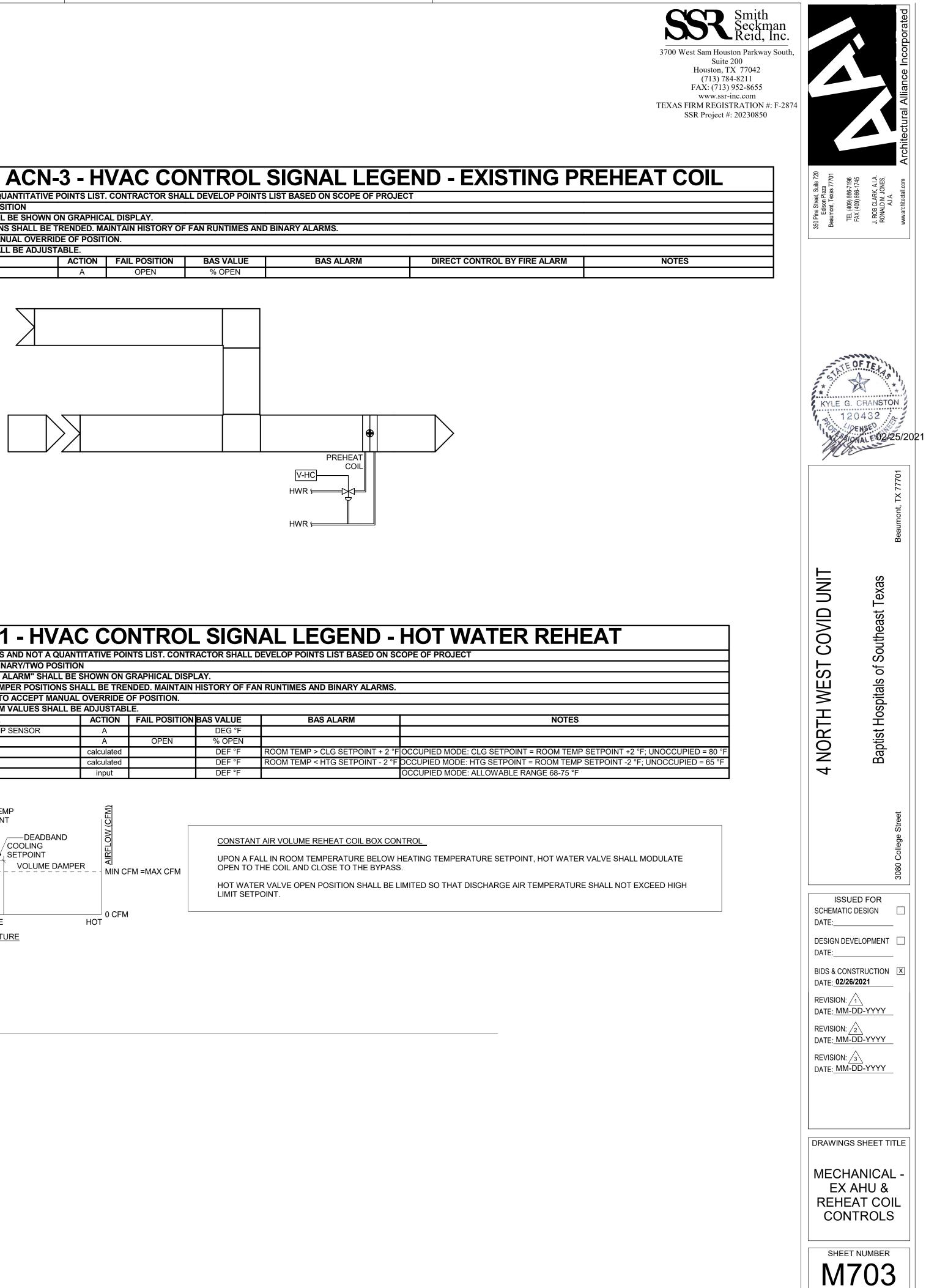
AS OUTSIDE AIR TEMPERATURE RISES AND T-SA RISES ABOVE SETPOINT: 1. PREHEAT HOT WATER VALVE SHALL MODULATE CLOSED TO THE COIL AND DIRECT WATER TO THE BYPASS. 2. THE PREHEAT COIL VALVE SHALL BE FULLY CLOSED TO THE COIL AND OPEN TO THE BYPASS WHEN THE SUPPLY FAN IS OFF.

FREEZE PROTECTION

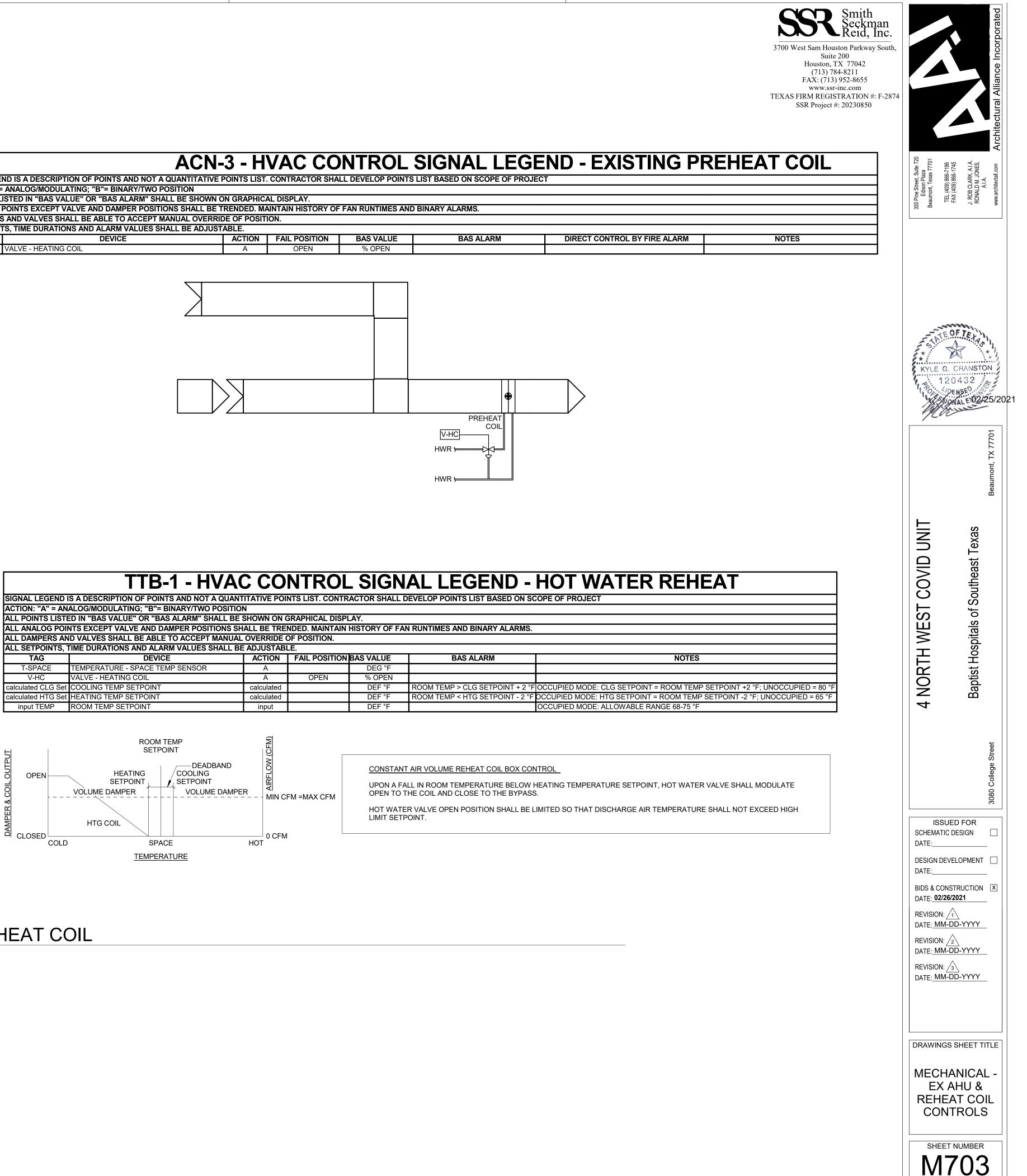
IF TEMPERATURE T-HC FALLS BELOW ALARM SETPOINT; • PREHEAT HOT WATER VALVE SHALL OPEN FULLY TO THE COIL AND CLOSE THE BY-PASS.

• INITIATE AN ALARM. IF THE TEMPERATURE LOW LIMIT T-LL UPSTREAM OF THE COOLING COIL FALLS BELOW 36 F: • OPEN THE CHILLED WATER VALVE 20%.

SIGNAL LEGE	ND IS A DESCRIPTION OF POINTS AND NOT A QUANTITATIVE F	POINTS LIST.	CONTRACTOR SHA	LL DEVELOP POINTS	LIST BASED		
ACTION: "A" =	ANALOG/MODULATING; "B"= BINARY/TWO POSITION	-					
ALL POINTS L	ISTED IN "BAS VALUE" OR "BAS ALARM" SHALL BE SHOWN C	ON GRAPHIC	AL DISPLAY.				
ALL ANALOG	POINTS EXCEPT VALVE AND DAMPER POSITIONS SHALL BE T	RENDED. MA	AINTAIN HISTORY OF	FAN RUNTIMES AND) BINARY ALA		
ALL DAMPERS AND VALVES SHALL BE ABLE TO ACCEPT MANUAL OVERRIDE OF POSITION.							
ALL SETPOINTS, TIME DURATIONS AND ALARM VALUES SHALL BE ADJUSTABLE.							
TAG	DEVICE	ACTION	FAIL POSITION	BAS VALUE	В		
V-HC	VALVE - HEATING COIL	A	OPEN	% OPEN			



	TTB-1 - HVA		_		
	S A DESCRIPTION OF POINTS AND NOT A QUA		NISLIST. CONTI	RACTOR SHALL	DEVELOP POINT
	ALOG/MODULATING; "B"= BINARY/TWO POSIT				
	ED IN "BAS VALUE" OR "BAS ALARM" SHALL E				
ALL ANALOG POI	NTS EXCEPT VALVE AND DAMPER POSITIONS	SHALL BE TRE	NDED. MAINTAIN	HISTORY OF F	AN RUNTIMES AN
ALL DAMPERS AN	ID VALVES SHALL BE ABLE TO ACCEPT MANU	JAL OVERRIDE (OF POSITION.		
ALL SETPOINTS, 7	TIME DURATIONS AND ALARM VALUES SHALL	. BE ADJUSTABI	E.		
TAG	DEVICE	ACTION	FAIL POSITION	BAS VALUE	BA
T-SPACE	TEMPERATURE - SPACE TEMP SENSOR	А		DEG °F	
V-HC	VALVE - HEATING COIL	А	OPEN	% OPEN	
	COOLING TEMP SETPOINT	calculated		DEF °F	ROOM TEMP >
calculated CLG Set		calculated		DEF °F	ROOM TEMP <
	HEATING TEMP SETPOINT	ouroundtou			





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