

SHEET NAMING CONVENTION

M-001A

2 DIGIT DISCIPLINE DESIGNATOR (IF ONLY ONE LETTER IS USED, THE SECOND LETTER IS REPLACED WITH A DASH "-" AS A PLACEHOLDER)**

1 DIGIT SHEET TYPE DESIGNATOR
0 - GENERAL
1 - PLANS
2 - ELEVATIONS
3 - SECTIONS
4 - ENLARGED PLANS
5 - DETAILS
6 - SCHEDULES AND DIAGRAMS
7 - VARIES
8 - VARIES
9 - 3D VIEWS (ISO, PERSPECTIVES)

1 DIGIT AREA DESIGNATOR (AREA DESIGNATOR ONLY USED WHEN PLANS ARE SUBDIVIDED INTO AREAS.)

2 DIGIT SEQUENTIAL # (01-99) (FIRST DIGIT INDICATES PLAN TYPE, SECOND DIGIT INDICATES FLOOR)

POOL CAPACITIES

POOL AREA	4,569 SQUARE FEET
POOL VOLUME	155,530 GALLONS
SURGE TANK VOLUME	4,620 GALLONS
TOTAL CIRCULATED WATER	160,150 GALLONS
POOL FLOW RATE FOR 4 HOUR TURNOVER	668 GPM
ADDED FLOW TO DHU-1 FOR HEAT RECOVERY	70 GPM
TOTAL FLOW THROUGH FILTER	738 GPM
NUMBER OF PUMPS	2
FLOW PER PUMP	370 GPM
FILTER FLOW RATE PER SQUARE FOOT OF FILTER	1.4 GPM
TOTAL FILTER AREA	529 SQUARE FEET

GENERAL MECHANICAL NOTES

- INSTALLATION OF HVAC WORK SHALL BE COORDINATED WITH OTHER TRADES BEFORE ANY INSTALLATION IS MADE. DUCTWORK SHOWN ON PLANS IS SCHEMATIC. DUCTWORK SHALL BE INSTALLED TIGHT TO STRUCTURE. ALL TRANSITIONS, ELBOWS, ETC. REQUIRED TO AVOID CONFLICTS & MAXIMIZE CEILING HEIGHTS. EQUIPMENT, PIPING OR DUCTWORK INTERFERING WITH OTHER TRADES SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE MECHANICAL AND ELECTRICAL SUCH THAT MECHANICAL PIPING AND EQUIPMENT IS NOT LOCATED OVER OR ABOVE ANY ELECTRICAL, COMMUNICATIONS, OR DATA EQUIPMENT.
- AT START OF CONSTRUCTION PREPARE TYPED LISTS OF EQUIPMENT THAT ARE SUPPLIED REQUIRING ELECTRICAL WORK, AND SEND LISTS TO THE ELECTRICAL CONTRACTOR FOR REVIEW AND COORDINATION.
- WRITTEN DIMENSIONS ON DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S APPROVED CLEARANCE, UNIFIED FACILITIES CRITERIA, AND INTERNATIONAL BUILDING CODE / INTERNATIONAL MECHANICAL CODE.
- INSTALLATION OF EQUIPMENT SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT WITHOUT NECESSITATING REMOVAL OR MODIFICATION TO OTHER PIPING, WIRING, OR EQUIPMENT.
- PROVIDE HOUSEKEEPING PADS FOR MECHANICAL EQUIPMENT.
- BRANCH VALVES AND DRAINS SHALL BE PROVIDED TO ENABLE ISOLATING A SECTION FOR MAINTENANCE WITHOUT SHUTTING DOWN ENTIRE SYSTEM.
- MANUFACTURER NAME AND MODEL NUMBERS ARE BASIS OF DESIGN AND ARE SHOWN FOR INFORMATION ONLY. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
- SPECIFICATIONS TAKE PRECEDENCE OVER DRAWINGS. HOWEVER, ITEMS SHOWN ON DRAWING BUT NOT IN THE SPECIFICATIONS ARE REQUIRED WITHIN THE PROJECT SCOPE. IN ADDITION, SPECIFIC ITEMS SHOWN ON THE DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS IN CASES WHERE THE SPECIFICATION HAS OPTIONS.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S APPROVED PUBLISHED LITERATURE.
- NOT ALL MECHANICAL ABBREVIATIONS SHOWN WILL BE USED FOR THIS PROJECT.

SCOPE OF WORK

- REMOVE, REPLACE AND RELOCATE POOL WATER PUMPS.
- REMOVE AND REPLACE SAND FILTER AND ASSOCIATED PIPING AND VALVES. CHANGE TO REGENERATIVE TYPE FILTER AND ASSOCIATED PIPING.
- REMOVE AND REPLACE THE DUAL FLOAT VALVE AT THE END OF THE DRAIN LINE IN THE SURGE TANK. SET NEW VALVE TO MAINTAIN PROPER WATER LEVEL IN THE SURGE TANK.
- SERVICE THE DEHUMIDIFICATION UNIT AND VERIFY PROPER POWER AND OPERATION OF THE UNIT.
- COMMISSION THE POOL CONTROL SYSTEM TO VERIFY PROPER OPERATION AND CHEMICAL INJECTION TO THE POOL WATER.
- ADD A BACK UP UV LIGHT FILTER.
- REMOVE AND REPLACE THE CONDENSATE PUMP CP-1 AT THE DEHUMIDIFICATION UNIT.
- BALANCE ALL WATER FLOWS AND PUMPS ASSOCIATED WITH THE POOL WATER.

PUMP SCHEDULE

TAG	LOCATION	SERVICE	PUMP					MOTOR		BASIS OF DESIGN	NOTES	
			FLOW (GPM)	TOTAL DYNAMIC HEAD (FT Wg)	DIAMETER		RPM	HP	ELECT. @ 60 Hz			
					SUCTION INLET (in.)	DISCHARGE OUTLET (in.)			VOLTS			PHASE
PWP-1	FILTER RM	POOL WATER FILTRATION	675	70	5	4	1760	20	460	3	GRUNDFOS LC40957	1
PWP-2	FILTER RM	POOL WATER FILTRATION	675	70	5	4	1760	20	460	3	GRUNDFOS LC40957	1
CP-1	OUTSIDE NEAR DH-1	PUMPING CONDENSATE	50	5	1 1/2	1 1/2	-	0.33	120	1	BARNES SP33LT	-

NOTES:
1. MANUFACTURER TO PROVIDE VFD FOR BOTH PUMPS.

REGENERATIVE FILTER SCHEDULE

TAG	LOCATION	SERVICE	DIAMETER (IN)	FILTER AREA SQ.FT.	FILTER FLOW GPM/SQ.FT.	MOD I CONTROLLER ELEC DATA		BASIS OF DESIGN	NOTES
						VOL	Amps		
PF-1	FILTER RM	POOL WATER FILTRATION	40"	519.2	1.4	120	17	PADDOCK PPEC 500S	

UV LIGHT SCHEDULE

TAG	LOCATION	SERVICE	POWER OUTPUT (WATTS)	GPM MAX	FLANGE SIZE	MOD I CONTROLLER ELEC DATA		BASIS OF DESIGN	NOTES
						VOL	Amps		
UV-2	FILTER RM	POOL WATER FILTRATION	3000	794	8 IN	480	13	PROMINENT 1X3A	

ELECTRICAL DATA FOR FILTER ACCESORIES

TAG	FUNCTION	SERVICE	ELECT. @ 60 Hz	
			VOLTS	AMPS
AC-1	AIR COMPRESSOR @ 5HP	POOL WATER FILTRATION	460	7.5
AD-1	AIR DRYER	POOL WATER FILTRATION	120	6
VFD-1	VARIABLE FLOW DRIVE	PUMP CONTROL	460	21
VFD-2	VARIABLE FLOW DRIVE	PUMP CONTROL	460	21

RAYMOND
SINCE 1992
MECHANICAL GENERAL NOTES AND DESIGN CRITERIA

DESIGNED BY: C. HANING
SUBMITTED BY: L. PREISS
DATE: 11 JUNE 2021
PROJECT CODE: 1184.013

DRAWN BY: V. NARALASETTI
CHECKED BY: C. HANING

SCALE: As indicated
PLOT DATE:
PLOT TIME:

DESCRIPTION OF REVISION

DATE

#

BY

CHKD

JOHNSON PARK POOL RENOVATION
1781 Ebenezer Road SW, Conyers, Georgia 30094

MECHANICAL GENERAL NOTES AND DESIGN CRITERIA

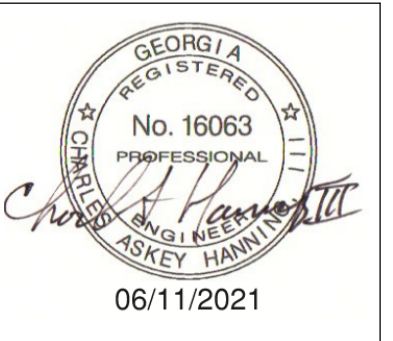


PLATE NUMBER:
M-001
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GENERAL MECHANICAL ABBREVIATIONS

@	AT	H	HEIGHT
&	AND	HGRH	HOT GAS REHEAT
AFF	ABOVE FINISHED FLOOR	HP	HEAT PUMP
A/C	ABOVE CEILING	HR	HOUR
AC	AIR CONDITIONER	HRP	HEAT RECOVERY PUMP
AD	AUTOMATIC DAMPER	HRPW	HEAT RECOVERY POOL WATER
ADJ	ADJUSTABLE	HSPF	HEATING SEASONAL PERFORMANCE FACTOR
AFMS	AIRFLOW MEASURING STATION	HTG	HEATING
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	HTR	HEATER
AHU	AIR HANDLING UNIT	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
AMB	AMBIENT	HWB	HOT WATER BOILER
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION	HX	HEAT EXCHANGER
ARCH	ARCHITECT, ARCHITECTURAL	HZ	HERTZ
AS	AIR SEPARATOR	IMC	INTERNATIONAL MECHANICAL CODE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS	IN	INCH, INCHES
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	IN WC	INCHES WATER COLUMN
AUX	AUXILIARY	IN WG	INCHES WATER GAUGE
AWS	AMERICAN WELDING SOCIETY	IPLV	INTEGRATED PART LOAD VALUE
AWG	AMERICAN WIRE GAUGE	KW	KILOWATTS
B	BOILER	L	LENGTH, LOUVER (WALL)
BD	BACKDRAFT DAMPER	LAT	LEAVING AIR TEMPERATURE
BLDG	BUILDING	LBS	POUNDS
BOD	BOTTOM OF DUCT	LBF/IN2	POUNDS FORCE PER SQUARE INCH
B/F	BELOW FLOOR	LWT	LEAVING WATER TEMPERATURE
B/S	BELOW SLAB	MAX	MAXIMUM
BT	BUFFER TANK	MBH	1000 BRITISH THERMAL UNITS
BTU, BTUH	BRITISH THERMAL UNITS, BTUs PER HOUR	MCA	MINIMUM CIRCUIT AMPACITY
CA	COMBUSTION AIR INTAKE	MERV	MINIMUM EFFICIENCY REPORTING VALUE
CAV	CONSTANT AIR VOLUME	MECH	MECHANICAL
CD	CONDENSATE DRAIN	MFR, MFG	MANUFACTURER, MANUFACTURING
CFM	CUBIC FEET PER MINUTE	MIN	MINIMUM
CH	CHILLER	MOCP, MOP	MAXIMUM OVER CURRENT PROTECTION
CHWR	CHILLED WATER RETURN	MOD	MOTOR OPERATED DAMPER
CHWS	CHILLED WATER SUPPLY	MSS	MANUFACTURER'S STANDARDIZATION SOCIETY
CLG	COOLING	MTD	MOUNTED
CMU	CONCRETE MASONRY UNIT	MUV	MAKE-UP WATER (POTABLE/ DOMESTIC)
CO	CLEANOUT	MVD	MANUAL VOLUME DAMPER
CO2	CARBON DIOXIDE	NC	NOISE CRITERIA
CONC	CONCRETE	N.C.	NORMALLY CLOSED
CONN	CONNECT, CONNECTING, CONNECTION	NO.	NUMBER
CONT	CONTINUED	N.O.	NORMALLY OPEN
COP	COEFFICIENT OF PERFORMANCE	NPLV	NET PART LOAD VALUE
CP	CONDENSATE PUMP UNIT	NTS	NOT TO SCALE
COR	CONTRACTING OFFICER'S (OWNER'S) REPRESENTATIVE	OA	OUTSIDE AIR
CT	COOLING TOWER	OD	OUTSIDE DAMPER
CU	CONDENSING UNIT	PCVL	PRE COAT VENT LINE
CWR	CONDENSER WATER RETURN	PD	PRESSURE DROP
CWS	CONDENSER WATER SUPPLY	PF	POOL FILTER
D	DEPTH	PH	PHASE
DB, Tdb	DRY BULB (TEMPERATURE)	PLBG	PLUMBING
dBA	DECIBELS	PPM	PARTS PER MILLION
DDC	DIRECT DIGITAL CONTROLS	PRV	PRESSURE RELIEF VALVE
DEG. F (°F)	DEGREES FAHRENHEIT	PWP	POOL WATER PUMP
DF	DESTRATIFICATION FAN	QTY	QUANTITY
DH	DEHUMIDIFIER	RH	RELATIVE HUMIDITY, ROOF HOOD
DHU	DEHUMIDIFICATION UNIT	RHG	REFRIGERANT HOT GAS
DIA	DIAMETER	RL	REFRIGERANT LIQUID
DIV	DIVISION	RM	ROOM
DN	DOWN	RPM	REVOLUTIONS PER MINUTE
DP, PD	DIFFERENTIAL PRESSURE, PRESSURE DROP	SA	SUPPLY AIR
DSCU	DUCTLESS SPLIT CONDENSING UNIT	SD	SMOKE DAMPER, SMOKE DETECTOR
DSHF	DUCTLESS SPLIT HEAT PUMP	SEER	SEASONAL ENERGY EFFICIENCY RATIO
DSS	DUCTLESS SPLIT SYSTEM (INDOOR UNIT)	SF	SUPPLY FAN
DWG	DRAWING	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
DX	DIRECT EXPANSION	SP	STATIC PRESSURE
EA	EXHAUST AIR	SS	STAINLESS STEEL
EAT	ENTERING AIR TEMPERATURE	TSTAT	THERMOSTAT
EER	ENERGY EFFICIENCY RATIO	TEMP	TEMPERATURE
EF	EXHAUST FAN	TP	TEMPERATURE/ PRESSURE TEST PORT
EFF	EFFICIENCY	TYP	TYPICAL
ELEC	ELECTRICAL	UH	UNIT HEATER
ERU	ENERGY RECOVERY UNIT	UL	UNDERWRITER'S LABORATORY
ERV	ENERGY RECOVERY VENTILATOR	UMCS	UTILITY MONITORING AND CONTROL SYSTEM
ET	EXPANSION TANK	V	VOLTAGE, VOLTS
ESP	EXTERNAL STATIC PRESSURE	VAV	VARIABLE AIR VOLUME
EUH	ELECTRIC UNIT HEATER	VD	VOLUME DAMPER
EWT	ENTERING WATER TEMPERATURE	VELO	VELOCITY
EXT	EXTERIOR	VFD	VARIABLE FREQUENCY DRIVE
EXH	EXHAUST	VSD	VARIABLE SPEED DRIVE
EXST, (E)	EXISTING	W	WATT(S)
FCU	FAN COIL UNIT	W/	WITH
FD	FIRE DAMPER	W/O	WITHOUT
FFE	FINISHED FLOOR ELEVATION	WB, Twb	WET BULB (TEMPERATURE)
FLA	FULL LOAD AMPS	WD	WIDE, WIDTH
FT	FOOT, FEET	WMS	WIRE MESH SCREEN
FT WG	FEET WATER GAUGE		
FV	FLUE VENT		
GA	GAGE		
GC	GENERAL CONTRACTOR		
GPM	GALLONS PER MINUTE		

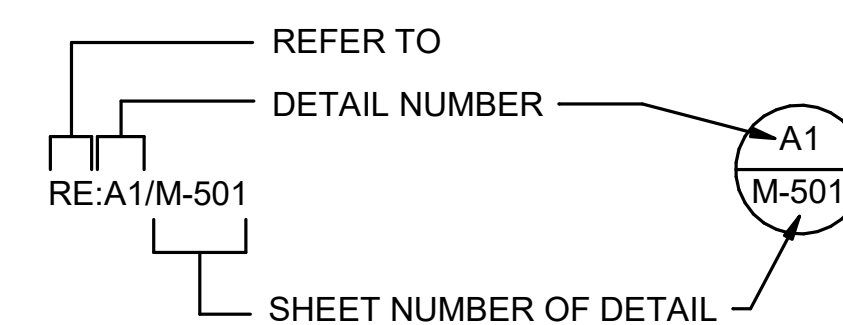
PIPING LEGEND

— CD —	CONDENSATE DRAIN
— CHWR —	CHILLED WATER RETURN
— CHWS —	CHILLED WATER SUPPLY
— CWR —	CONDENSER WATER RETURN
— CWS —	CONDENSER WATER SUPPLY
— HWR —	HEATING HOT WATER RETURN
— HWS —	HEATING HOT WATER SUPPLY
— RHG —	REFRIGERANT HOT GAS
— RL —	REFRIGERANT LIQUID
— RS —	REFRIGERANT SUCTION
—	ELBOW UP
—	ELBOW DOWN
—	RISE OR DROP
—	BRANCH BOTTOM CONNECTION
—	BRANCH TOP CONNECTION
—	TEE OUTLET UP
—	TEE OUTLET DOWN
—	PIPE CAP
—	DIRECTION OF FLOW
—	DIRECTION OF SLOPE DOWN
—	CONCENTRIC REDUCER
—	ECCENTRIC REDUCER
—	UNION
—	PIPE FLANGE
—	PIPE ANCHOR (PA)
—	PIPE GUIDE (PG)
—	EXPANSION JOINT
—	STRAINER WITH BLOWDOWN VALVE, CAP, AND CHAIN
—	GATE VALVE
—	BALL VALVE
—	FLOW MEASURING/BALANCING/SHUT-OFF VALVE
—	CHECK VALVE
—	BUTTERFLY VALVE
—	PRESSURE REDUCING VALVE
—	PRESSURE/TEMPERATURE TAP WITH BALL VALVE
—	FLOW METER
—	PRESSURE SWITCH
—	PLUG VALVE
—	MANUAL AIR VENT
—	AUTOMATIC AIR VENT
—	T&P RELIEF VALVE
—	PRESSURE GAUGE WITH GAUGE COCK
—	THERMOMETER
—	FLEXIBLE CONNECTION
—	CLEANOUT
—	FLOOR CLEANOUT
—	WATER METER
—	FLEXIBLE PIPE CONNECTION

MISCELLANEOUS LEGEND

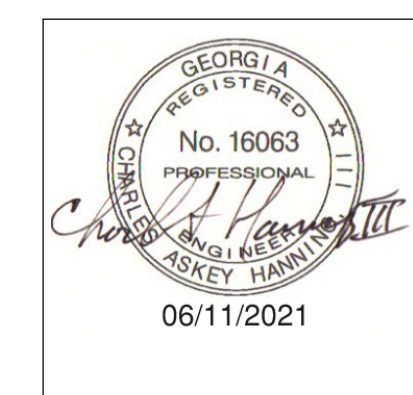
	SUPPLY AIR DIFFUSER - FLOW ARROWS INDICATE AIR PATTERN. NO FLOW ARROWS SHOWN INDICATES 4-WAY PATTERN.
	RETURN AIR DEVICE
	EXHAUST AIR DEVICE
	REMOTE CONTROLLER (VRF SYSTEM)
	THERMOSTAT
	HUMIDISTAT
	THERMOSTAT/ HUMIDISTAT
	START/ STOP SWITCH
	DUCT SMOKE DETECTOR
	FIRESTAT
	TEMPERATURE SENSOR
	HUMIDITY SENSOR
	STATIC PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	CARBON MONOXIDE SENSOR
	CARBON DIOXIDE SENSOR
	AIR QUALITY SENSOR
	120 VOLT STAND BY POWER JUNCTION BOX PROVIDED BY THE ELECTRICAL CONTRACTOR JUNCTION BOX IS DEDICATED FOR USE BY THE CONTROLS CONTRACTOR.
	VARIABLE FREQUENCY DRIVE
	CONTROL WIRING
	ROUND
	OVAL OR FLAT OVAL
	SERVICE CLEARANCE

DRAWING REFERENCE KEY



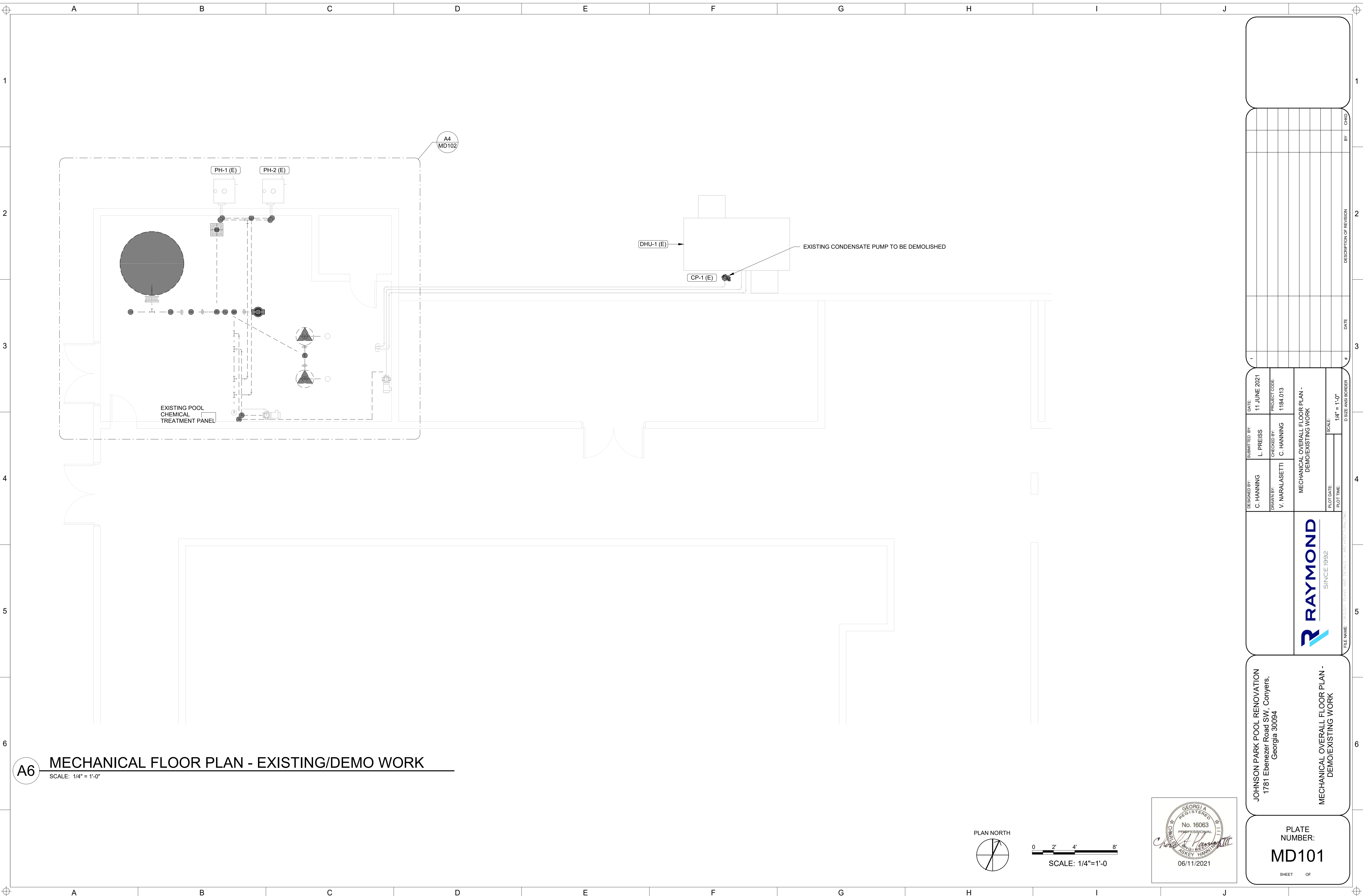
DEMOLITION KEY

	DEMOLISHED
	CONNECT TO EXISTING
	DISCONNECT FROM EXISTING

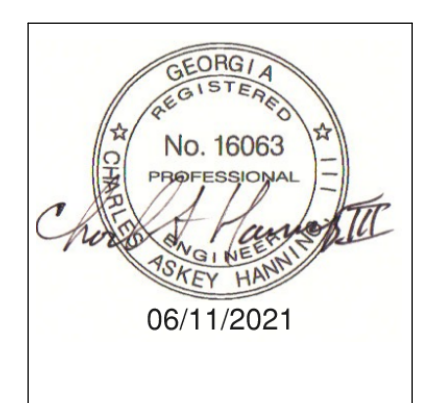
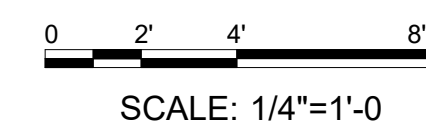
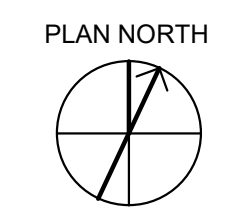


DATE: 11 JUNE 2021	PROJECT CODE: 1184-013
SUBMITTED BY: L. PREISS	CHECKED BY: C. HANNING
DESIGNED BY: C. HANNING	DRAWN BY: V. NARALASETTI
MECHANICAL ABBREVIATIONS AND LEGENDS	
SCALE: 1/2" = 1'-0"	DATE: _____
PLOT DATE: _____	PLOT TIME: _____
RAYMOND SINCE 1992	
JOHNSON PARK POOL RENOVATION 1781 Ebenezer Road SW, Conyers, Georgia 30094	
MECHANICAL ABBREVIATIONS AND LEGENDS	
PLATE NUMBER: M-002	
SHEET OF	

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A6 MECHANICAL FLOOR PLAN - EXISTING/DEMO WORK
 SCALE: 1/4" = 1'-0"



JOHNSON PARK POOL RENOVATION
 1781 Ebenezer Road SW, Conyers,
 Georgia 30094



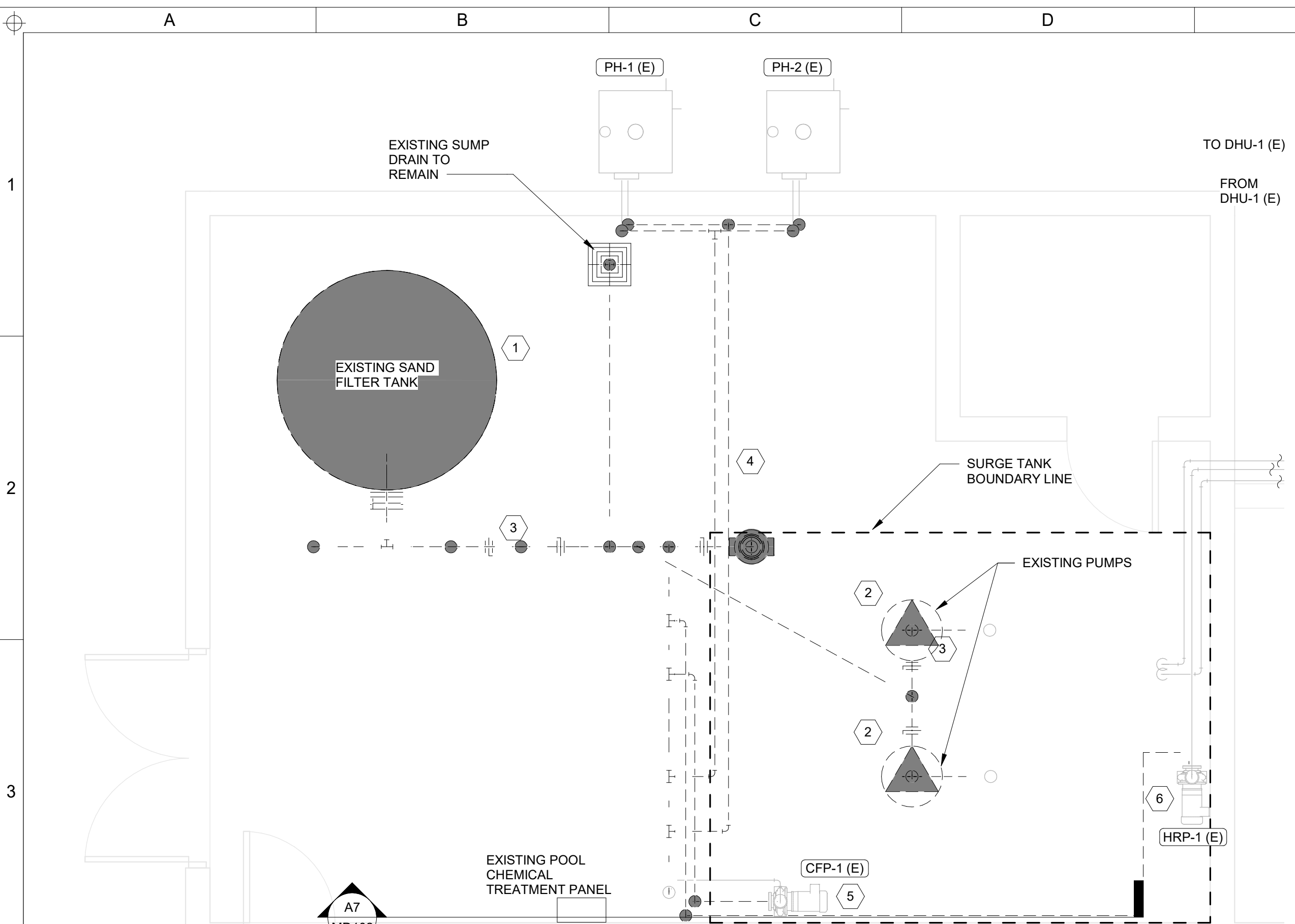
DESIGNED BY: C. HANNING
 CHECKED BY: V. NARALASETTI
 SUBMITTED BY: L. PREISS
 DATE: 11 JUNE 2021
 PROJECT CODE: 1184.013

#	DATE	DESCRIPTION OF REVISION	BY	CHKG
1				

MECHANICAL OVERALL FLOOR PLAN -
 DEMO/EXISTING WORK

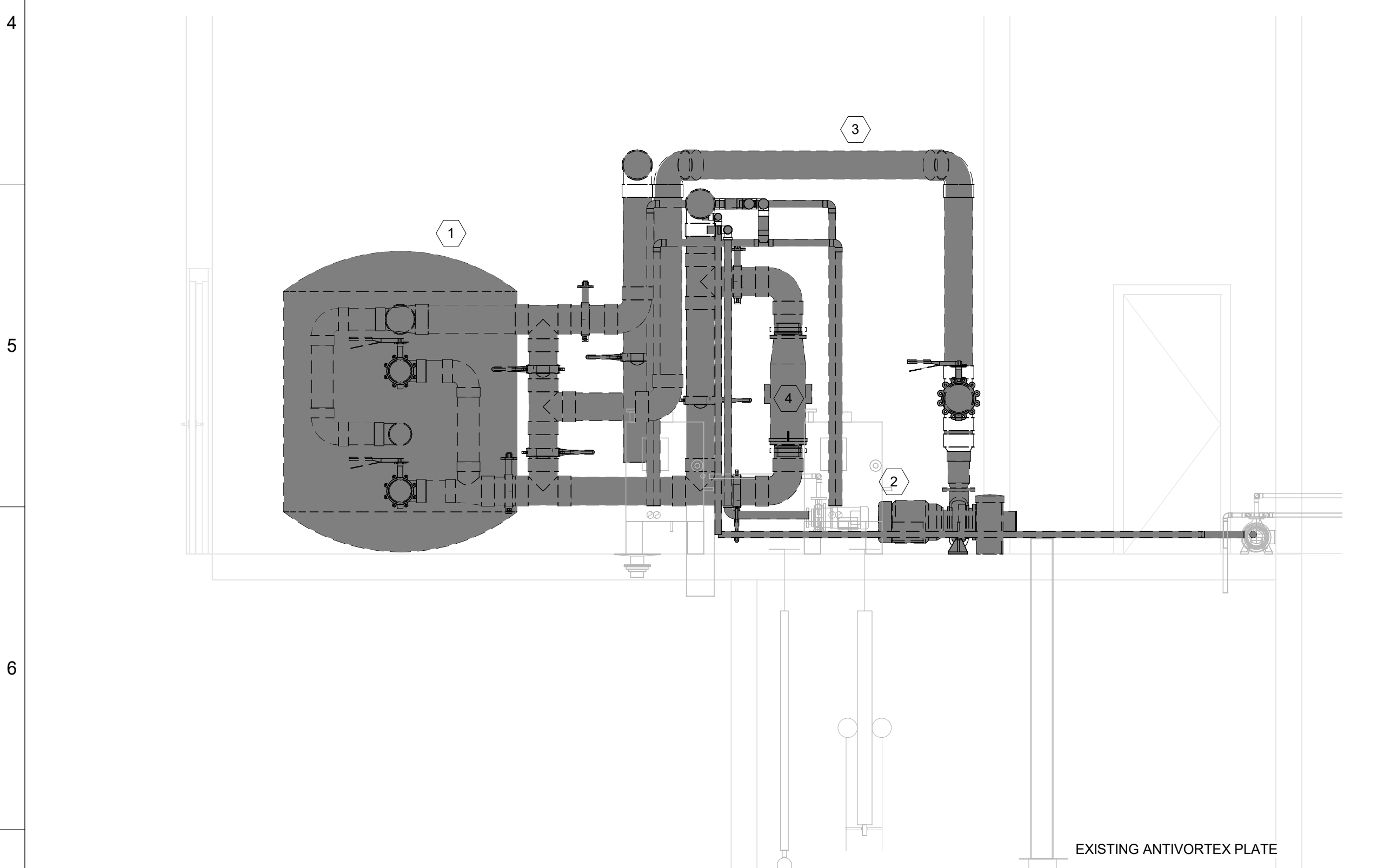
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MD101

SHEET OF



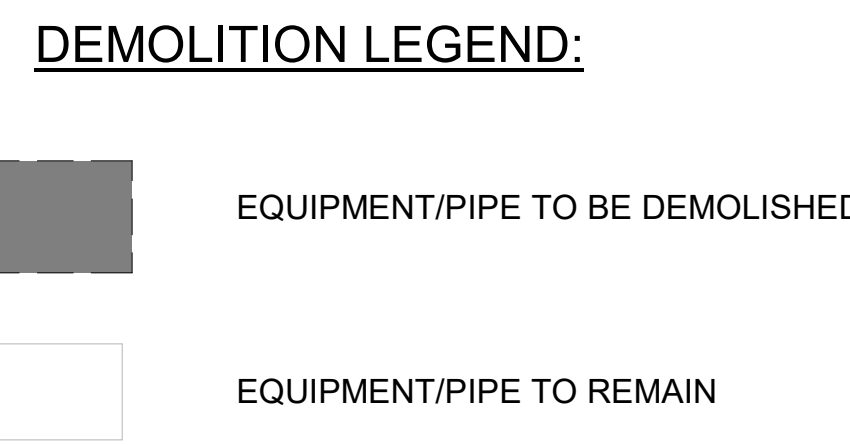
A4 MECHANICAL ENLARGED PIPING FLOOR PLAN - EXISTING/DEMO WORK

SCALE: 3/8" = 1'-0" 0 1' 2' 4' 6'



A7 MECHANICAL PIPING SECTION VIEW - EXISTING/DEMO WORK

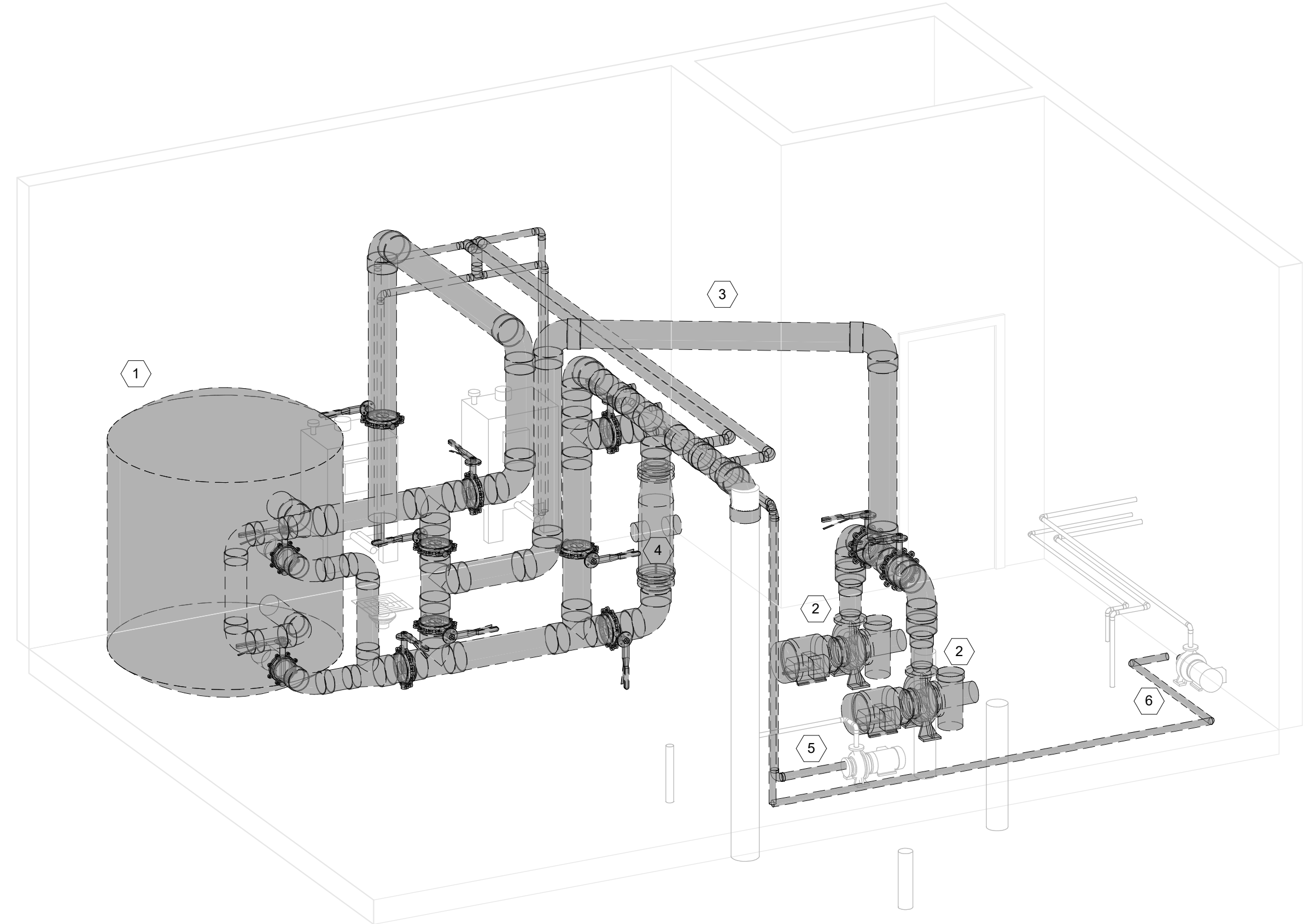
SCALE: 3/8" = 1'-0" 0 1' 2' 4' 6'



SHEET NOTES:

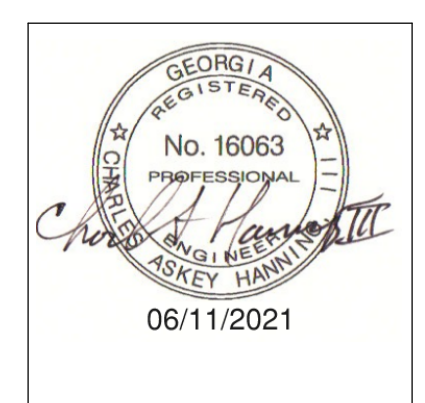
- REFER TO M-001 FOR MECHANICAL GENERAL NOTES AND DESIGN CRITERIA.

- # KEYNOTES:**
- REMOVE EXISTING SAND FILTER AND ASSOCIATED CONNECTIONS.
 - REMOVE EXISTING PUMP, BASKET STRAINER AND ASSOCIATED CONNECTIONS.
 - REMOVE PIPING, PIPING ACCESSORIES, AND BUTTERFLY VALVES AS SHOWN (IN GRAY).
 - EXISTING UV FILTER TO BE REMOVED AND REINSTALLED. SEE MH101 FOR NEW LOCATION.
 - REMOVE PIPING TO EXISTING CFP-1. DISCHARGE PIPING TO POOL WATER DROP TO REMAIN.
 - REMOVE PIPING TO EXISTING HRP-1. DISCHARGE PIPING TO EXISTING DHU-1 AND RETURN PIPE FROM EXISTING DHU-1 ARE TO REMAIN.
 - EXISTING CONDENSATE PUMP CP-1 TO BE REMOVED AND REPLACED. EXISTING PIPING TO AND FROM CP-1 TO REMAIN AS MUCH AS POSSIBLE.



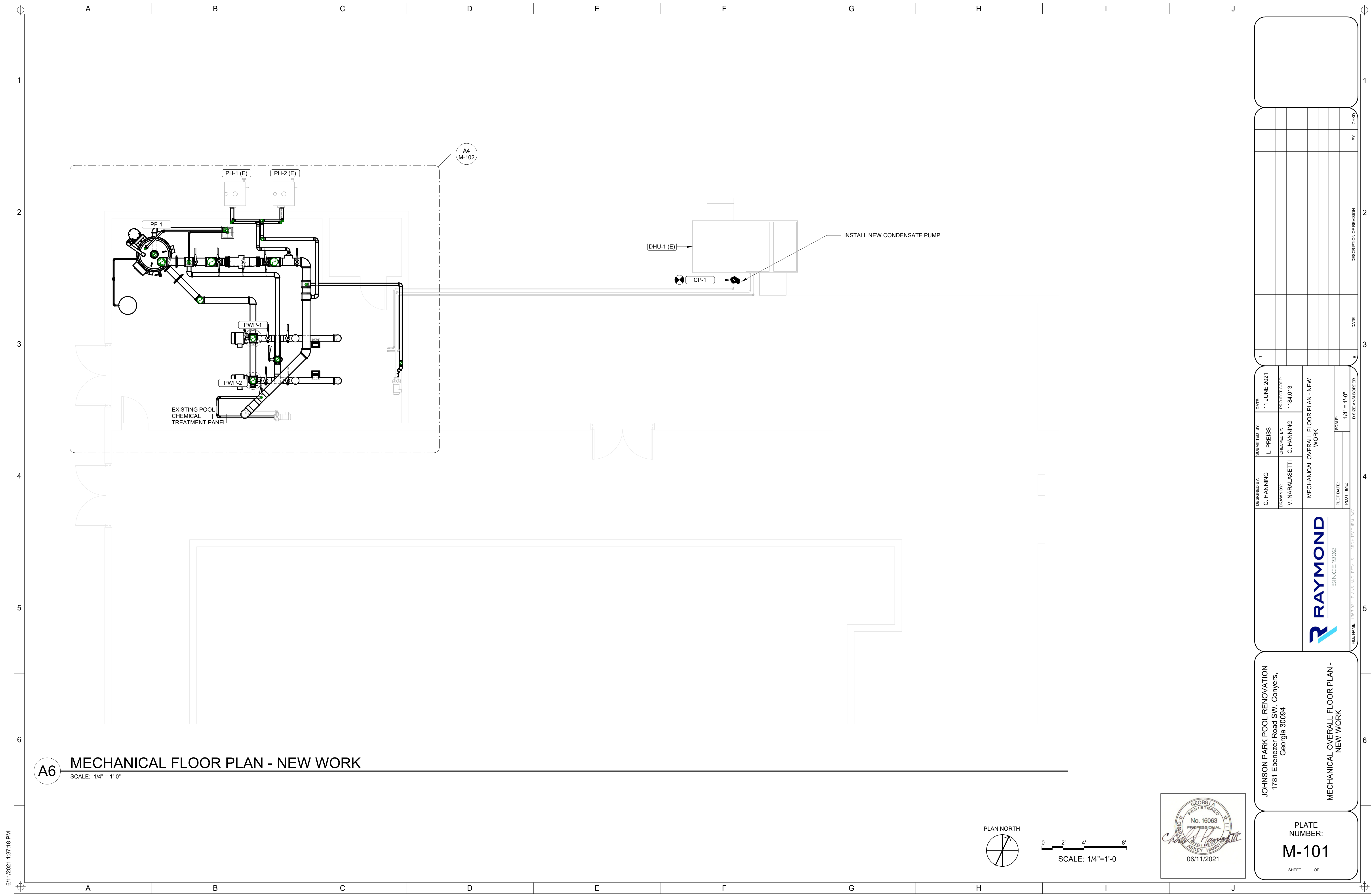
E7 MECHANICAL PIPING 3D VIEW - EXISTING/DEMO WORK

SCALE: N.T.S.



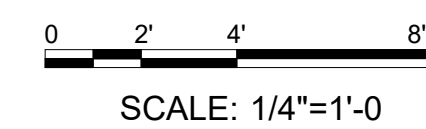
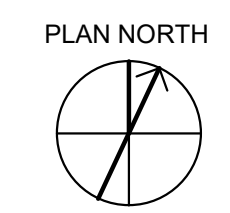
DATE: 11 JUNE 2021		PROJECT CODE: 1184.013		MECHANICAL ENLARGED VIEWS - EXISTING/DEMO WORK	SCALE: As Indicated D SIZE ANSIBORDER
DESIGNED BY: C. HANNING	CHECKED BY: L. PREISS	DRAWN BY: V. NARALASETTI	PROJECT CODE: 1184.013		
SUBMITTED BY: L. PREISS		DATE: 11 JUNE 2021		MECHANICAL ENLARGED VIEWS - EXISTING/DEMO WORK	SCALE: As Indicated D SIZE ANSIBORDER
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JOHNSON PARK POOL RENOVATION 1781 Ebenezer Road SW, Conyers, Georgia 30094		MECHANICAL ENLARGED VIEWS - EXISTING/DEMO WORK		PLATE NUMBER: MD102	
RAYMOND SINCE 1992		MECHANICAL ENLARGED VIEWS - EXISTING/DEMO WORK		SHEET OF	

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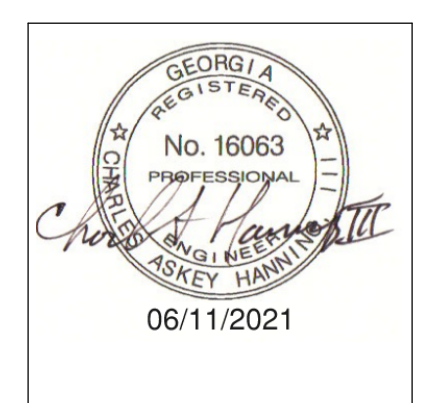


A6 MECHANICAL FLOOR PLAN - NEW WORK

SCALE: 1/4" = 1'-0"



SCALE: 1/4"=1'-0



JOHNSON PARK POOL RENOVATION
1781 Ebenezer Road SW, Conyers,
Georgia 30094

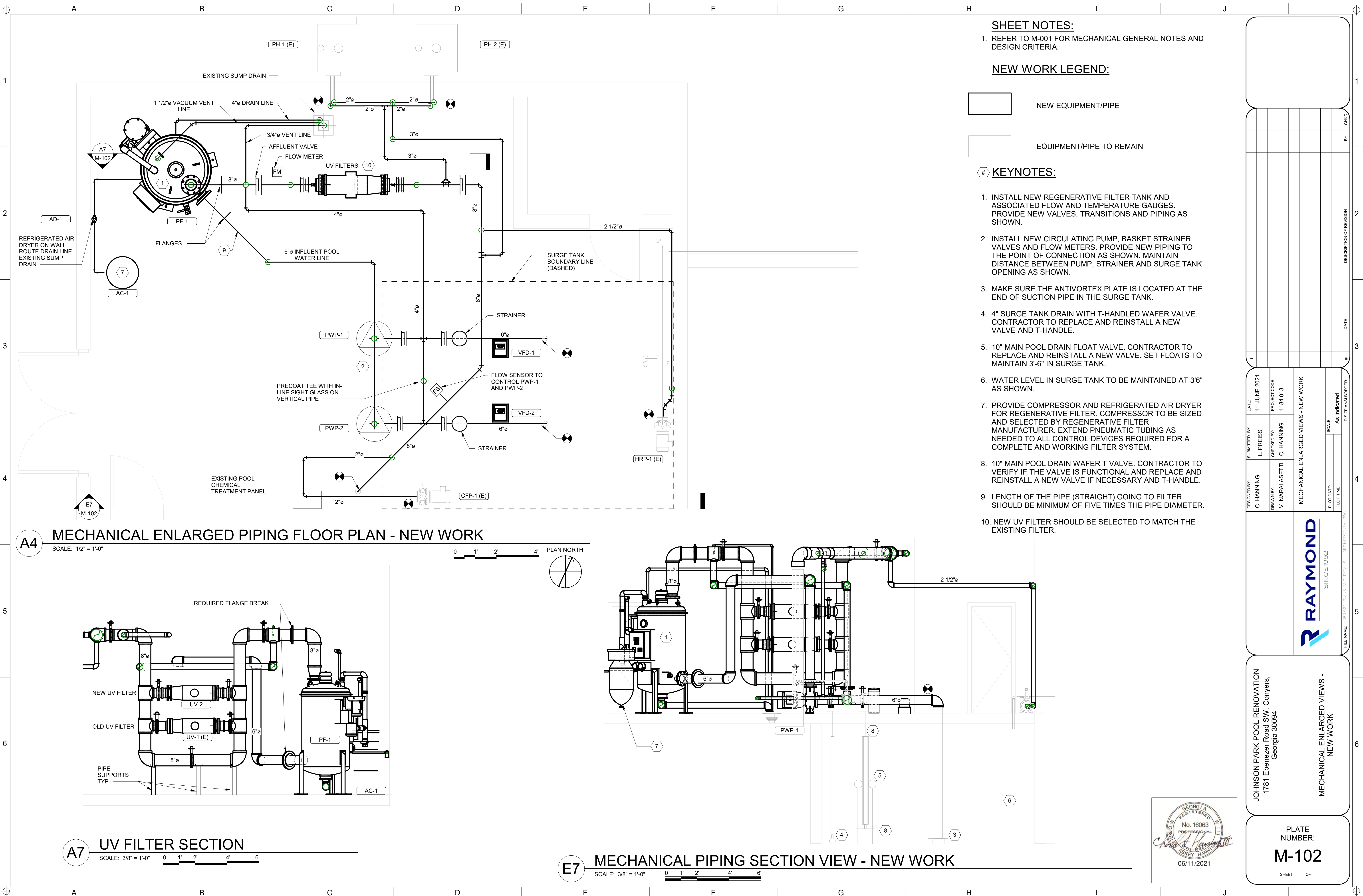
MECHANICAL OVERALL FLOOR PLAN -
NEW WORK

PLATE
NUMBER:
M-101

SHEET OF

DESIGNED BY: C. HANNING	SUBMITTED BY: L. PREISS	DATE: 11 JUNE 2021
DRAWN BY: V. NARALASETTI	CHECKED BY: C. HANNING	PROJECT CODE: 1184-013
MECHANICAL OVERALL FLOOR PLAN - NEW WORK		
PLOT DATE:	SCALE: 1/4" = 1'-0"	#
PLOT TIME:	D SIZE ANSI BORDER	DATE
		DESCRIPTION OF REVISION
		BY
		CHKG

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SHEET NOTES:

- REFER TO M-001 FOR MECHANICAL GENERAL NOTES AND DESIGN CRITERIA.

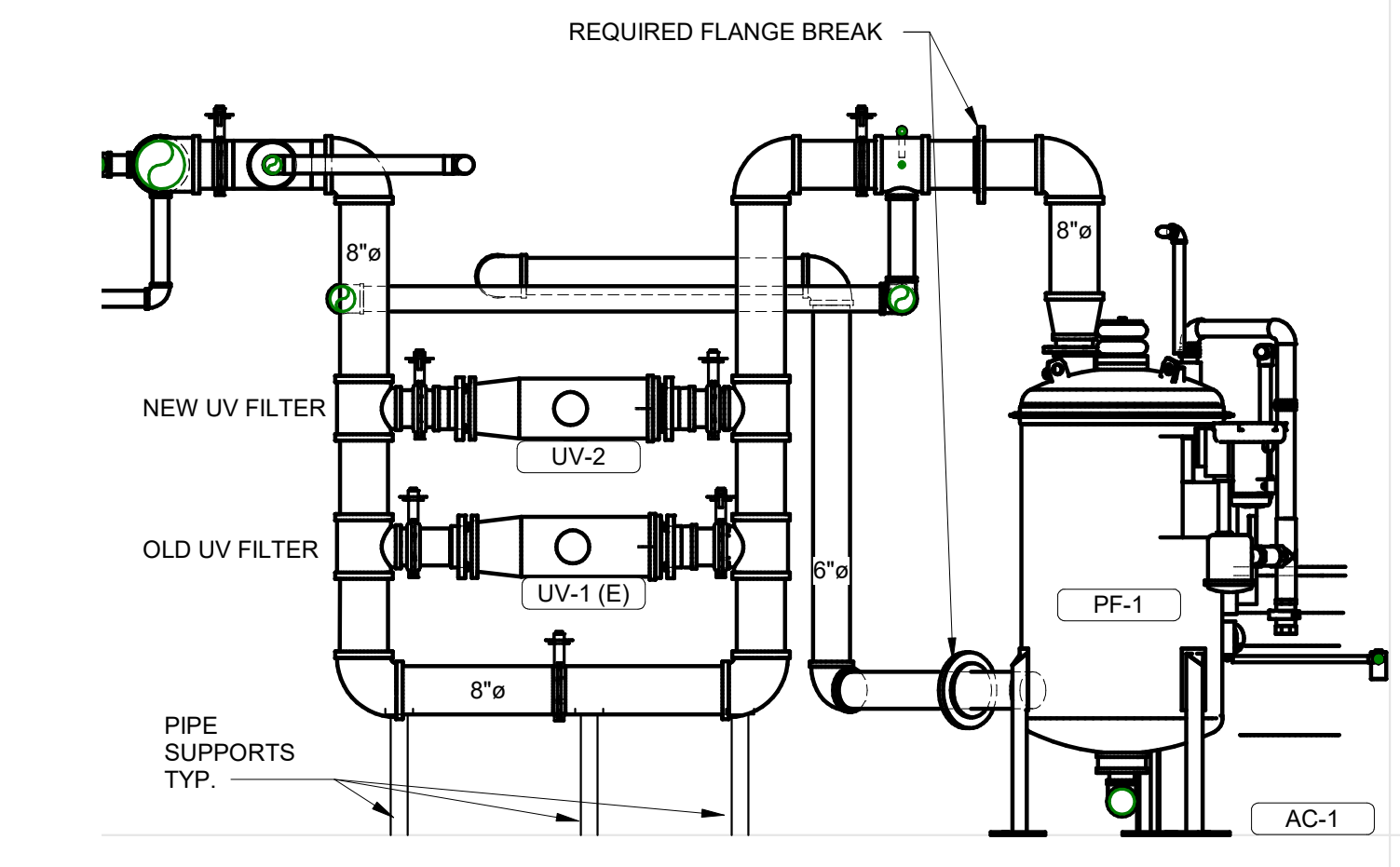
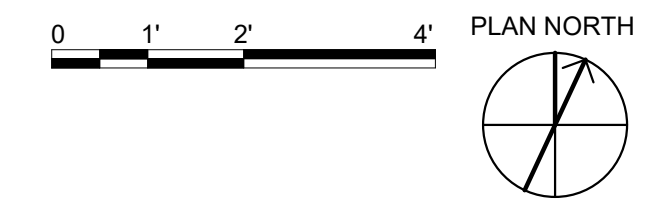
NEW WORK LEGEND:

- NEW EQUIPMENT/PIPE
- EQUIPMENT/PIPE TO REMAIN

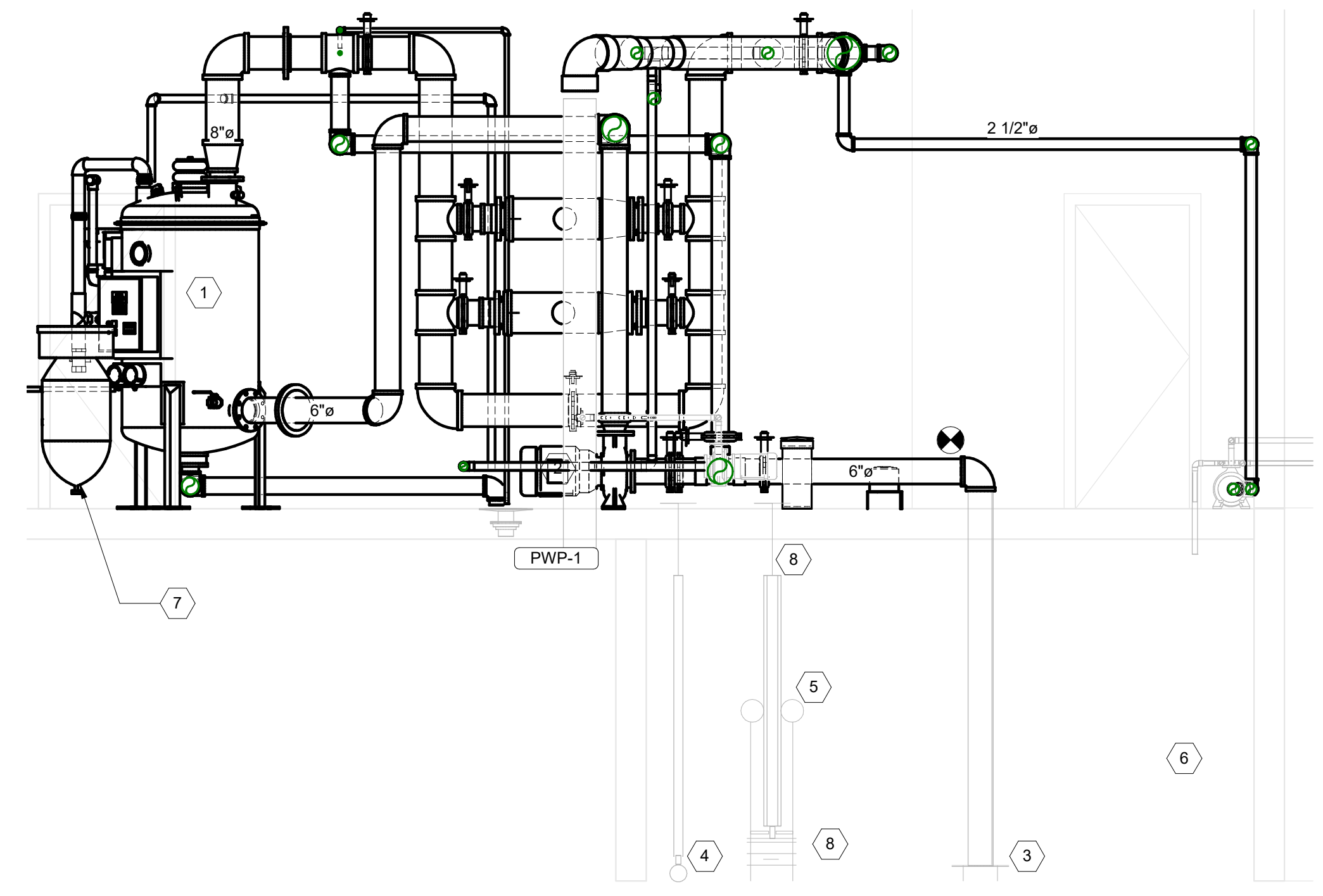
KEYNOTES:

- INSTALL NEW REGENERATIVE FILTER TANK AND ASSOCIATED FLOW AND TEMPERATURE GAUGES. PROVIDE NEW VALVES, TRANSITIONS AND PIPING AS SHOWN.
- INSTALL NEW CIRCULATING PUMP, BASKET STRAINER, VALVES AND FLOW METERS. PROVIDE NEW PIPING TO THE POINT OF CONNECTION AS SHOWN. MAINTAIN DISTANCE BETWEEN PUMP, STRAINER AND SURGE TANK OPENING AS SHOWN.
- MAKE SURE THE ANTIVORTEX PLATE IS LOCATED AT THE END OF SUCTION PIPE IN THE SURGE TANK.
- 4" SURGE TANK DRAIN WITH T-HANDLED WAFER VALVE. CONTRACTOR TO REPLACE AND REINSTALL A NEW VALVE AND T-HANDLE.
- 10" MAIN POOL DRAIN FLOAT VALVE. CONTRACTOR TO REPLACE AND REINSTALL A NEW VALVE. SET FLOATS TO MAINTAIN 3'-6" IN SURGE TANK.
- WATER LEVEL IN SURGE TANK TO BE MAINTAINED AT 3'6" AS SHOWN.
- PROVIDE COMPRESSOR AND REFRIGERATED AIR DRYER FOR REGENERATIVE FILTER. COMPRESSOR TO BE SIZED AND SELECTED BY REGENERATIVE FILTER MANUFACTURER. EXTEND PNEUMATIC TUBING AS NEEDED TO ALL CONTROL DEVICES REQUIRED FOR A COMPLETE AND WORKING FILTER SYSTEM.
- 10" MAIN POOL DRAIN WAFER T VALVE. CONTRACTOR TO VERIFY IF THE VALVE IS FUNCTIONAL AND REPLACE AND REINSTALL A NEW VALVE IF NECESSARY AND T-HANDLE.
- LENGTH OF THE PIPE (STRAIGHT) GOING TO FILTER SHOULD BE MINIMUM OF FIVE TIMES THE PIPE DIAMETER.
- NEW UV FILTER SHOULD BE SELECTED TO MATCH THE EXISTING FILTER.

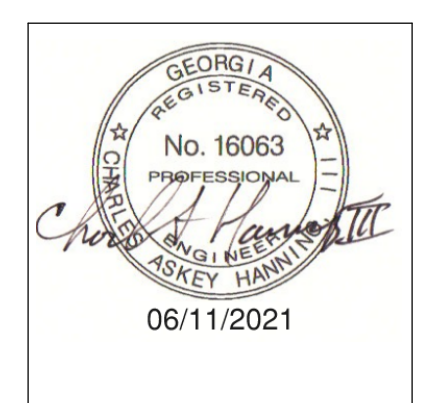
A4 MECHANICAL ENLARGED PIPING FLOOR PLAN - NEW WORK
SCALE: 1/2" = 1'-0"



A7 UV FILTER SECTION
SCALE: 3/8" = 1'-0"

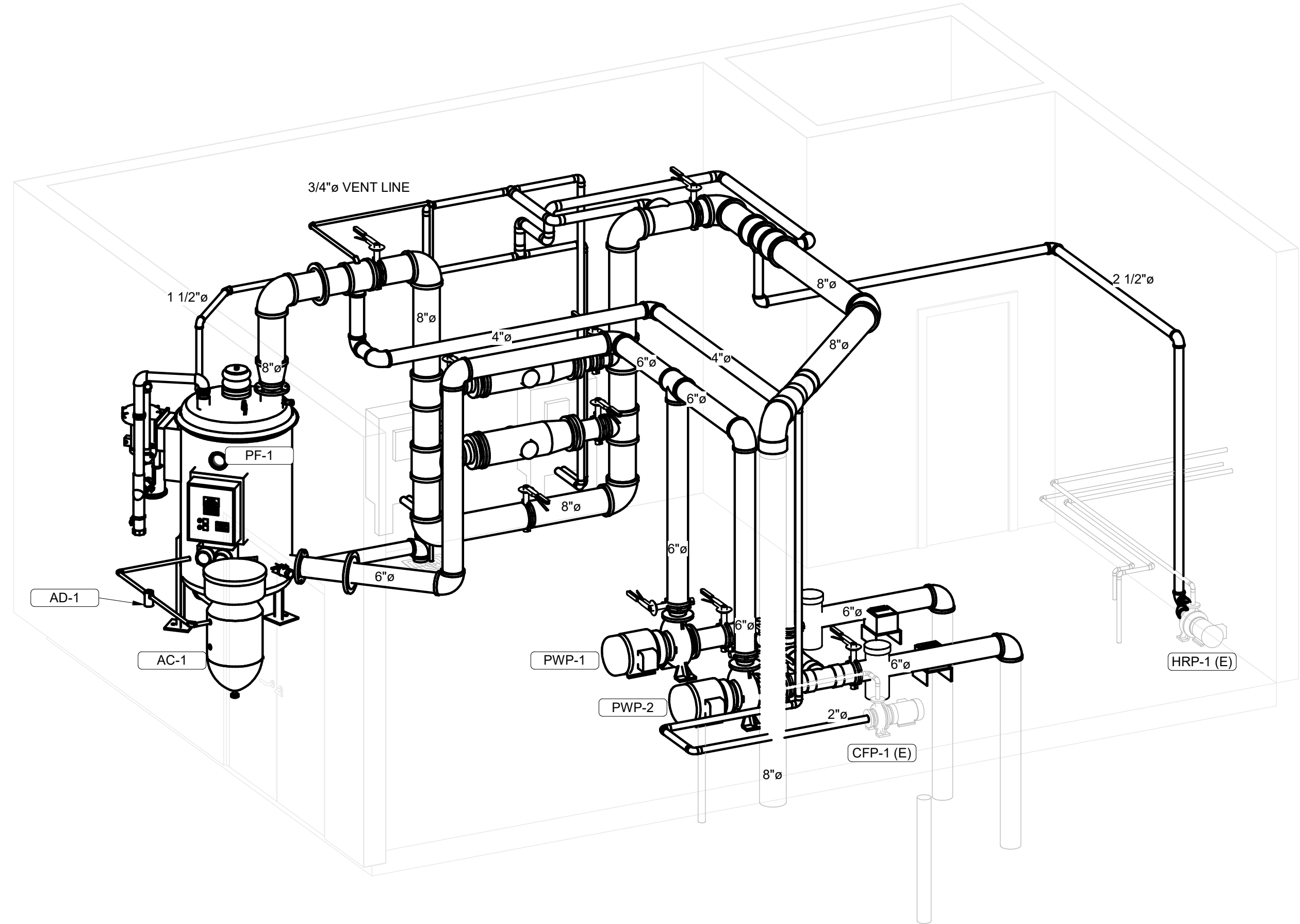


E7 MECHANICAL PIPING SECTION VIEW - NEW WORK
SCALE: 3/8" = 1'-0"

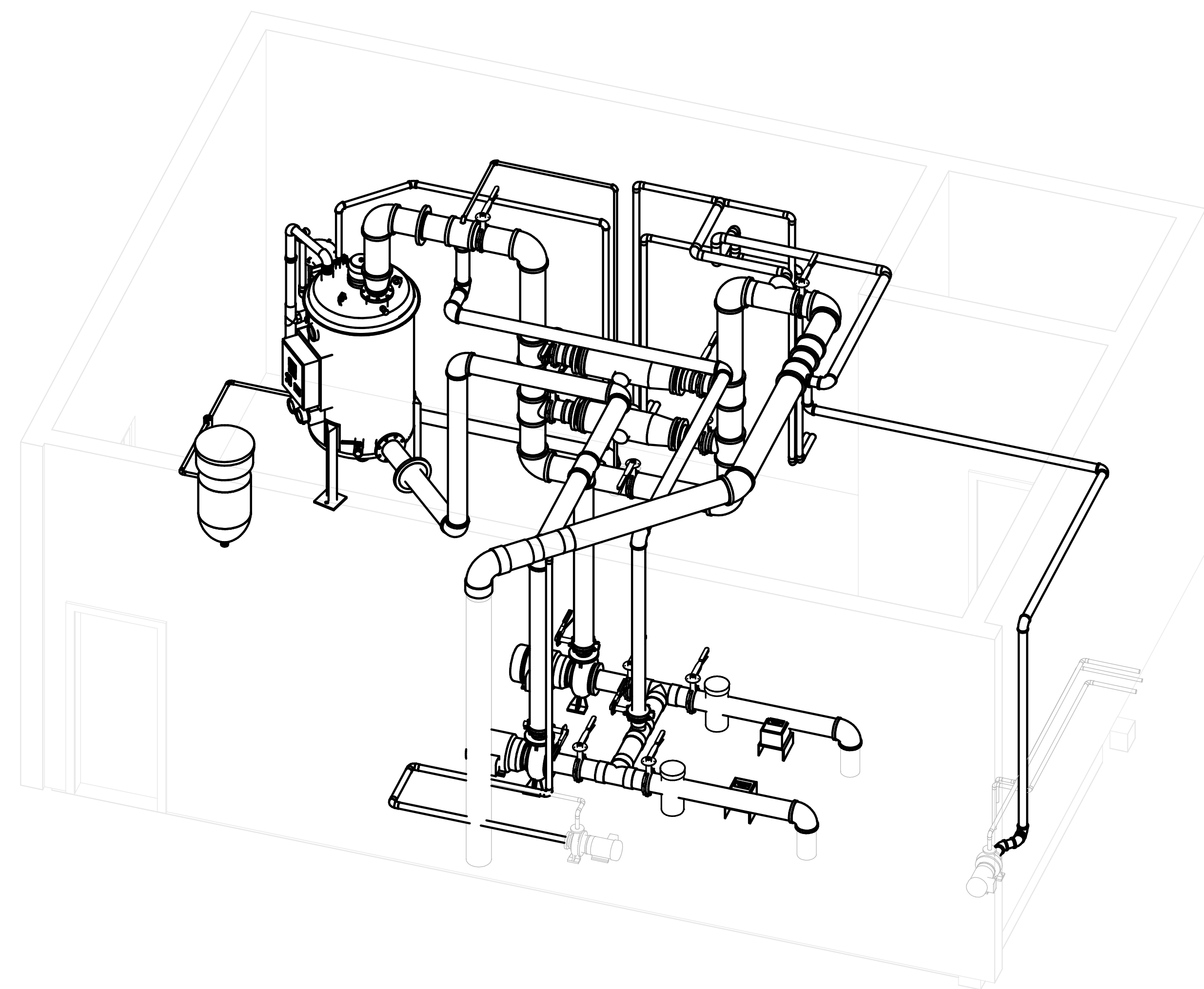


RAYMOND SINCE 1992	
JOHNSON PARK POOL RENOVATION 1781 Ebenezer Road SW, Conyers, Georgia 30094	MECHANICAL ENLARGED VIEWS - NEW WORK
PLATE NUMBER: M-102	
SHEET OF	

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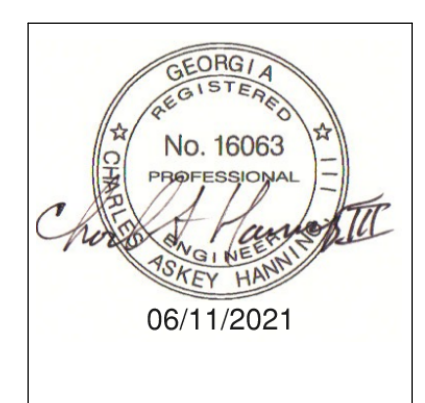
A4 MECHANICAL PIPING 3D VIEW - NEW WORK
SCALE: N.T.S.



F4 MECHANICAL PIPING 3D VIEW (2) - NEW WORK
SCALE: N.T.S.

NEW WORK LEGEND:

- NEW EQUIPMENT/PIPE
- EQUIPMENT/PIPE TO REMAIN



#	DATE	DESCRIPTION OF REVISION	BY	CHKD
1				

DESIGNED BY: C. HANNING	SUBMITTED BY: L. PREISS	DATE: 11 JUNE 2021
DRAWN BY: V. NARALASETTI	CHECKED BY: C. HANNING	PROJECT CODE: 1184.013
MECHANICAL ISOMETRIC VIEWS - NEW WORK		
PLOT DATE:	SCALE: 1/4" = 1'-0"	D SIZE ANSI BORDER

RAYMOND
SINCE 1992

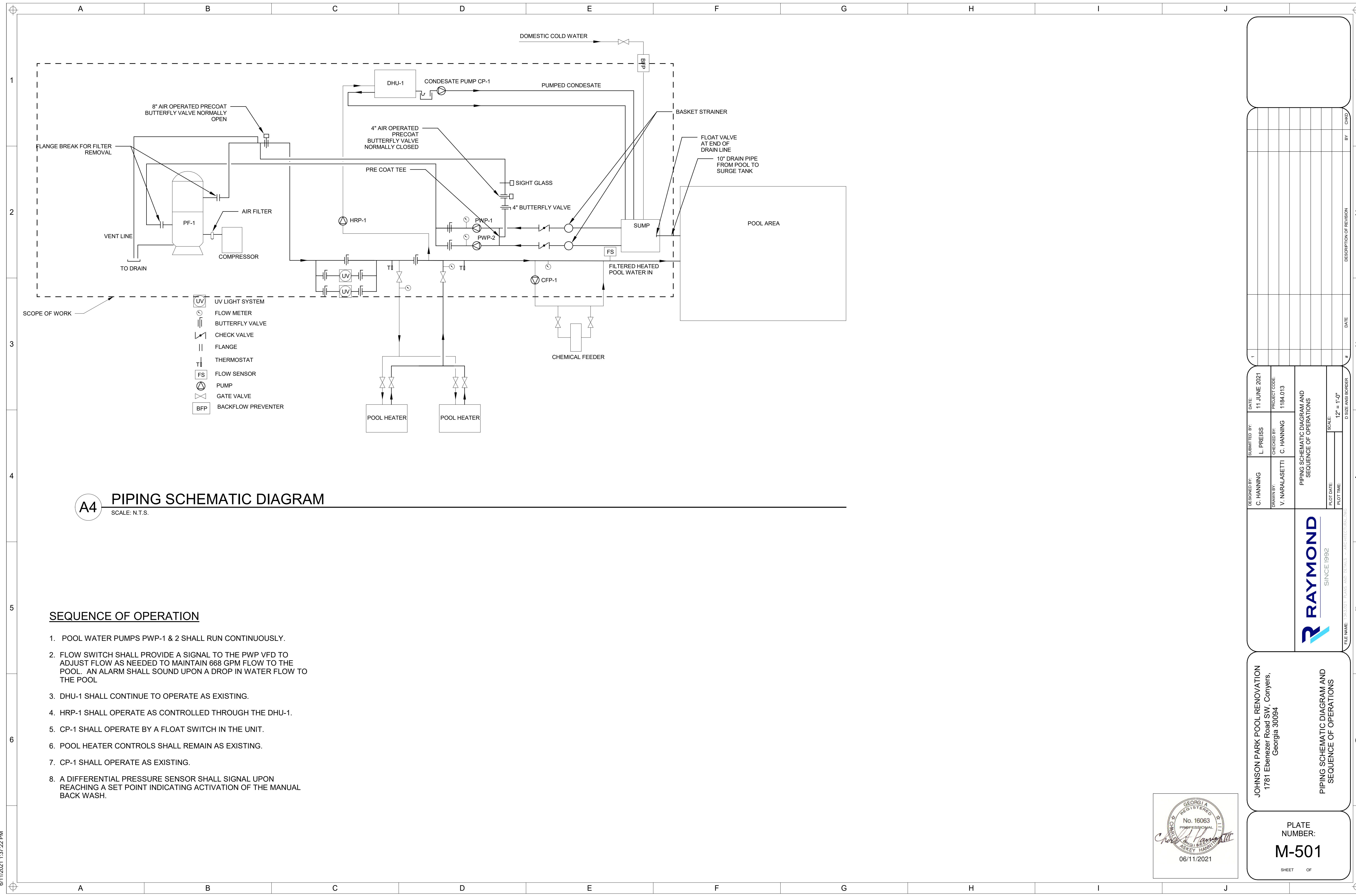
FILE NAME: J:\PROJECT FILES AND DETAILS - ARCHITECTURAL\...

JOHNSON PARK POOL RENOVATION
1781 Ebenezer Road SW, Conyers,
Georgia 30094

MECHANICAL ISOMETRIC VIEWS -
NEW WORK

PLATE NUMBER:
M-103

SHEET OF



A4 PIPING SCHEMATIC DIAGRAM
SCALE: N.T.S.

SEQUENCE OF OPERATION

1. POOL WATER PUMPS PWP-1 & 2 SHALL RUN CONTINUOUSLY.
2. FLOW SWITCH SHALL PROVIDE A SIGNAL TO THE PWP VFD TO ADJUST FLOW AS NEEDED TO MAINTAIN 668 GPM FLOW TO THE POOL. AN ALARM SHALL SOUND UPON A DROP IN WATER FLOW TO THE POOL
3. DHU-1 SHALL CONTINUE TO OPERATE AS EXISTING.
4. HRP-1 SHALL OPERATE AS CONTROLLED THROUGH THE DHU-1.
5. CP-1 SHALL OPERATE BY A FLOAT SWITCH IN THE UNIT.
6. POOL HEATER CONTROLS SHALL REMAIN AS EXISTING.
7. CP-1 SHALL OPERATE AS EXISTING.
8. A DIFFERENTIAL PRESSURE SENSOR SHALL SIGNAL UPON REACHING A SET POINT INDICATING ACTIVATION OF THE MANUAL BACK WASH.

#	DATE	DESCRIPTION OF REVISION	BY	CHKD
1				

DESIGNED BY: C. HANNING	SUBMITTED BY: L. PREISS	DATE: 11 JUNE 2021
DRAWN BY: V. NARALASETTI	CHECKED BY: C. HANNING	PROJECT CODE: 1184-013

RAYMOND
SINCE 1992

FILE NAME: J:\PROJECT FILES AND DETAILS - ARCHITECTURAL\...

SCALE: 12" = 1'-0"
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1781 Ebenezer Road SW, Conyers,
Georgia 30094

PIPING SCHEMATIC DIAGRAM AND
SEQUENCE OF OPERATIONS

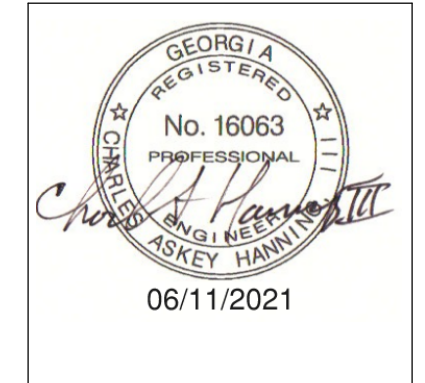


PLATE NUMBER:
M-501

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