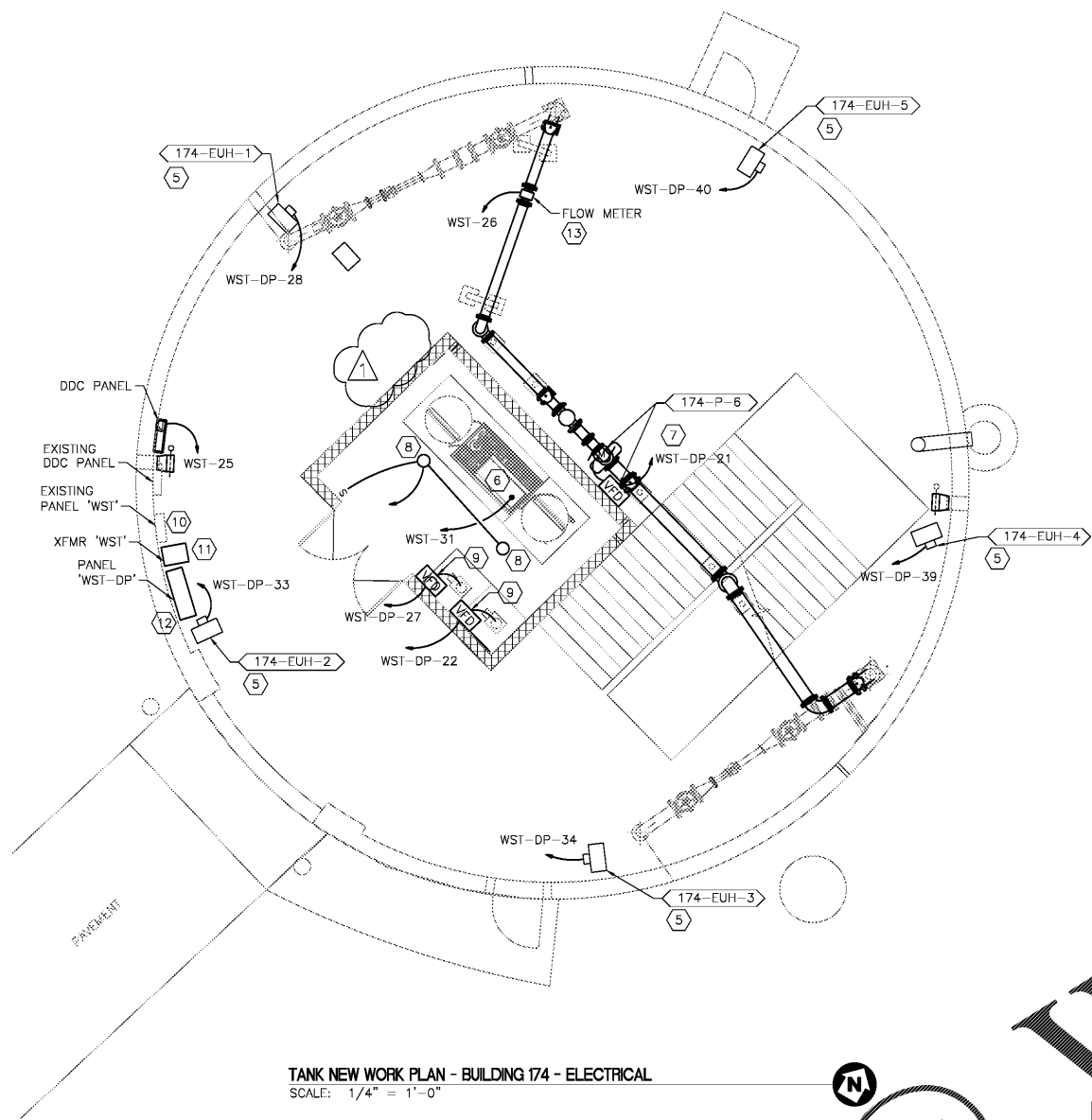


three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot



TANK NEW WORK PLAN - BUILDING 174 - ELECTRICAL  
 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. LIGHT LINE WEIGHT INDICATES EXISTING TO REMAIN AND HEAVY LINE WEIGHT INDICATES DEMOLITION OR NEW WORK AS APPLICABLE.
2. FOR PENETRATIONS OF THE TANK WALL, MAINTAIN 3 TIMES THE OPENING SIZE FROM THE CENTERLINE OF CONDUITS PENETRATING THE WALL. FOR EXAMPLE: TWO 4-INCH DIAMETER OPENINGS CAN BE NO CLOSER THAN 12-INCHES CENTER LINE TO CENTER LINE.
3. FOR PENETRATIONS OF THE TANK WALL, MAINTAIN 3 TIMES THE OPENING SIZE FROM EXISTING DOORS, WINDOWS AND PIPE OPENINGS.

NOTES:

- 1 NOT USED
- 2 NOT USED
- 3 NOT USED
- 4 NOT USED
- 5 ELECTRIC UNIT HEATER 7.5KW, 480V, 3-PHASE. UNIT HAS INTEGRAL DISCONNECT PROVIDED BY MANUFACTURER.
- 6 MIOX SKID PANEL 208V, 1-PHASE.
- 7 RECIRCULATION PUMP 174-P-6: 15HP, 480V, 3-PHASE. PROVIDE VARIABLE FREQUENCY DRIVE FOR PUMP MOUNTED TO MIOX ROOM WALL.
- 8 PROVIDE LIGHT FIXTURE BY LITHONIA CATALOG NUMBER VC42LM6 OR EQUAL. SURFACE MOUNT TO CEILING. PROVIDE GRAY COLOR AND 42 WATT, 3500K LAMPS.
- 9 CHEMICAL FEED PUMP 174-P-1, 174-P-2: 3/4HP, 480V, 3-PHASE. PROVIDE VARIABLE FREQUENCY DRIVE FOR EACH PUMP MOUNTED TO WALL OF TANK.
- 10 REPLACE EXISTING PANEL WITH A 42 POLE PANEL WITH THE SAME CURRENT RATINGS. RELOCATE EXISTING CIRCUITS TO NEW PANEL AND PLACE ON SAME POLES IN NEW WORK. SEE PANEL SCHEDULE THIS SHEET.
- 11 PROVIDE 45kva, 480 DELTA-208/120V WYE, DRY-TYPE TRANSFORMER.
- 12 PROVIDE PANEL "WST-DP" WITH FEATURES SHOWN IN PANEL SCHEDULES.
- 13 FLOW METER 174-FM-1: 120V, 1-PHASE.

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PANEL WST SCHEDULE																			
225A, 150A MCB, 208/120V, 3PH, 4W, SN, GB																			
MOUNT: SURFACE LOCATION: TANK 22.0 kcalc																			
LOAD SERVED	LOAD (KVA)			BKR TRIP	WIRE SIZE	NEU SIZE	GND SIZE	COND SIZE	CKT NO.	PHASE	COND. SIZE			WIRE SIZE	BKR TRIP	LOAD (KVA)			LOAD DESCRIPTION
	A	B	C							A	B	C			A	B	C		
SPACE									1	A									SPACE
SPACE									3	B									SPACE
SPACE									5	C									SPACE
SPACE									7	A									SPACE
SPACE									9	B									SPACE
SPACE									11	C									SPACE
SPACE									13	A									SPACE
SPACE									15	B									SPACE
SPACE									17	C									SPACE
ROLL UP DOOR	0.6								10	A					20				SPARE
2ND FLOOR RECEPITS	0.4			20	EX	EX	EX	EX	13	B					20	0.2			PANEL RECEIPT
2ND FLOOR LIGHTS	0.4			20	EX	EX	EX	EX	15	B					20	0.2			FLOW METER
1ST FLOOR RECEPITS	0.2			20	EX	EX	EX	EX	17	C					20			0.2	FLOW METER TANK F
EXT RECEPITS	0.2			20	EX	EX	EX	EX	19	A					20	0.3			EXT LIGHTS
TANK FILL VALVE	0.4			20	EX	EX	EX	EX	21	B					20	0.4			1ST FLOOR LIGHTS
SIEMENS PANEL	0.4			20	EX	EX	EX	EX	23	C					20			0.6	TANK DISCHARGE VAL
DDC PANEL	0.4			20	12	12	12	4"	25	A					20	0.2			FLOW METER
SPACE									27	B									
SPACE									29	C									
MIOX SKID	1.7			30	10	10	10	5/4"	31	A									
									32	B									
									33	C									
									34	A									
									35	B									
									36	C									
									37	A									
									38	B									
									39	C									
									40	A									
									41	B									
									42	C									
TOTAL	3.6	3.1													0.7	0.6	0.8		TOTAL
CONN. LOAD:	10.3			28.9	A										A: 4.0	B: 3.7	C: 2.7		
MAND	10.3			28.9	A										A: 33.3	B: 30.8	C: 22.5		
TOTAL PHASE KVA:																			
TOTAL PHASE AMPS:																			

PANEL WST-DP SCHEDULE																			
1200A, 1000A MCB, 480/277V, 3PH, 4W, SN, GB																			
MOUNT: SURFACE LOCATION: TANK 22.0 kcalc																			
LOAD DESCRIPTION	LOAD (KVA)			BKR TRIP	WIRE SIZE	NEU SIZE	GND SIZE	COND SIZE	CKT NO.	PHASE	COND. SIZE			WIRE SIZE	BKR TRIP	LOAD (KVA)			LOAD DESCRIPTION
	A	B	C							A	B	C			A	B	C		
SPACE									1	A									SPACE
SPACE									3	B									SPACE
SPACE									5	C									SPACE
SPACE									7	A									SPACE
SPACE									9	B									SPACE
SPACE									11	C									SPACE
SPACE									13	A									SPACE
SPACE									15	B									SPACE
SPACE									17	C									SPACE
RECIRCULATION PUMP	5.8								19	A									
		5.8		40	8		10	1"	21	B									
			5.8						23	C									
CHEM FEED P-2	0.6			15	12		12	3/4"	27	A									
		0.6							29	B									
			0.6						29	C									
HEAT 174-EUH-2	2.5			15	12		12	3/4"	31	A									
		2.5							33	B									
			2.5						35	C									
HEAT 174-EUH-4	2.5			15	12		12	3/4"	37	A									
		2.5							39	B									
			2.5						41	C									
									43	A									
									45	B									
									47	C									
									49	A									
									51	B									
									53	C									
TOTAL	11.4	11.4	11.4												12.1	13.0	12.0		TOTAL
CONN. LOAD:	71.3			85.9	A										A: 23.5	B: 24.4	C: 23.4		
DEMAND LOAD:	71.3			85.9	A										A: 84.8	B: 88.1	C: 84.5		

IF THIS DRAWING IS A REDUCTION, GRAPHIC SCALE MUST BE USED.  
 5' 0 5'  
 1/4" = 1'-0"

Order Plans @

<p>Revisions</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>									<p><b>Atrix</b>        Atrix, pllc        102 3rd Avenue, NE        PO Box 1829        Hickory, NC 28603        Phone: 828.315.9982        Fax: 828.315.9984        www.atrigroup.com</p>	<p><b>WileyWilson</b>        WileyWilson        127 Nationsville Drive        Lynchburg, VA 24502        Phone: 434.947.1901        www.wileywilson.com</p>	<p>Approved: Energy Engineer  </p>	<p>Approved: Safety Manager</p>	<p>Approved: Service Chief</p>	<p>Drawing Title        EP-110        BUILDING 174        ELECTRICAL FLOOR PLANS</p>	<p>Project Title        RENOVATE FOR WATER QUALITY</p>	<p>Date        04/28/2017</p>
<p>Approved: Chief of Facility Management Svc.</p>	<p>Approved: Infection Control Officer</p>	<p>Approved: Chief of Staff</p>	<p>Building Number        174</p>	<p>Checked        SAB</p>	<p>Drawn        JWG</p>	<p>Project No.        658-15-101</p>	<p>Drawing Set        2592</p>	<p>Date        04/28/2017</p>								
<p>Approved: Medical Center Director</p>	<p>Approved: GEMS Coordinator</p>	<p>Approved: Associate Director</p>	<p>Location        VA MEDICAL CENTER, SALEM, VA 24153</p>	<p>Checked        SAB</p>	<p>Drawn        JWG</p>	<p>Drawing Set        2592</p>	<p>Date        04/28/2017</p>	<p>Page        153 OF 155</p>								
<p> </p>	<p> </p>	<p> </p>	<p> </p>	<p> </p>	<p> </p>	<p> </p>	<p> </p>	<p> </p>								

Veterans Affairs