

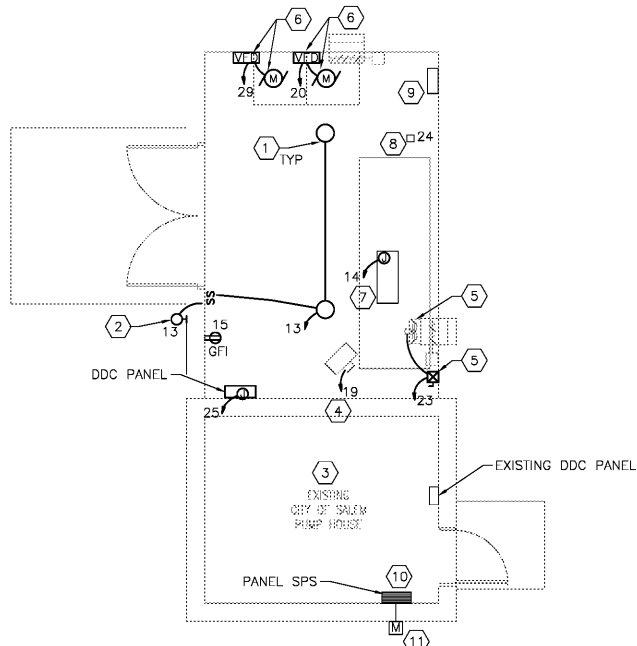
three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot  
 one sixteenth inch = one foot

**GENERAL NOTES:**

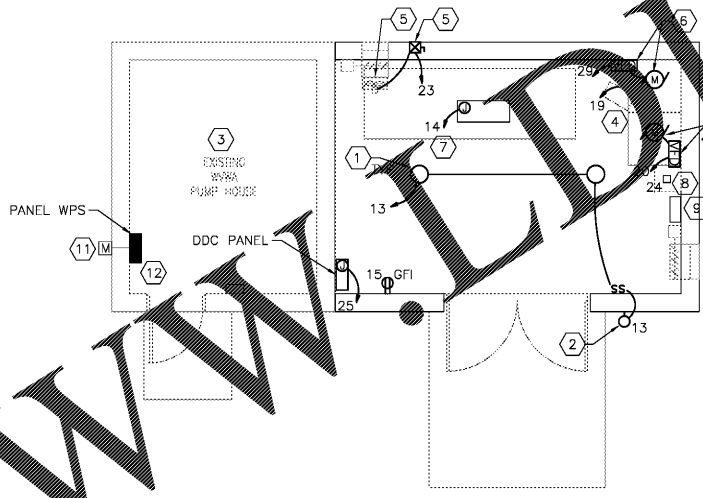
LIGHT LINE WEIGHT INDICATES EXISTING TO REMAIN AND HEAVY LINE WEIGHT INDICATES DEMOLITION OR NEW WORK AS APPLICABLE.

**NOTES:**

- 1 PROVIDE LIGHT FIXTURE BY LITHONIA CATALOG NUMBER VC42LM6 EQUAL. SURFACE MOUNT TO CEILING. PROVIDE GRAY COLOR AND TYPE PL-1 42 WATT, 3500K LAMPS.
- 2 PROVIDE LIGHT FIXTURE BY LITHONIA CATALOG NUMBER VW42L65 OR EQUAL. MOUNT 6" BELOW EAVE TO TOP OF FIXTURE. OUTSIDE WALL. PROVIDE GRAY COLOR AND TYPE PL-1 42 WATT, 3500K LAMPS.
- 3 EXISTING EQUIPMENT TO REMAIN IN SPACE SHOWN.
- 4 ELECTRIC UNIT HEATER: 7.5KW, 208/120V, 3PH. ELECTRICAL DISCONNECT IS INTEGRAL TO UNIT.
- 5 EXHAUST FAN: 1/2HP, 220V, 1-PHASE. PROVIDE A COMBINATION STARTER/DISCONNECT (NEMA SIZE 0 STARTER) IN A NEMA 4 ENCLOSURE WITH H-O-A SWITCH MOUNTED TO THE FRONT COVER. FAN CONTROLLED BY THERMOSTAT IN "AUTO" MODE.
- 6 NUMERICAL FREQUENCY DRIVE: 3/4HP, 208V, 3-PHASE. PROVIDE VARIABLE FREQUENCY DRIVE FOR EACH PUMP MOUNTED TO WALL OF TANK. SEE SPECIFICATIONS FOR VFD REQUIREMENTS.
- 7 MIOX SKID CONTROL PANEL: 220V, 1-PHASE. DISCONNECT IS INTEGRAL TO UNIT.
- 8 CONTROL VALVE: 120V, 1-PHASE.
- 9 CHLORINE ANALYZER AND TURBIDITY SENSOR: DDC PANEL POWERED.
- 10 REPLACE EXISTING PANEL 'SPS' WITH A NEW PANELBOARD WITH FEATURES AND RATINGS AS SHOWN IN SCHEDULE. EXISTING CIRCUITS WILL BE CONNECTED TO NEW PANELBOARD IN SPACES SHOWN.
- 11 POWER METER BASE FURNISHED BY AEP AND INSTALLED BY CONTRACTOR. THE METER WILL BE INSTALLED BY AEP. AEP WILL PROVIDE OVERHEAD POWER TO THE WWA PUMP STATION AND UNDERGROUND TO THE SALEM PUMP STATION. AEP WILL REUSE EXISTING WEATHERHEAD AND UNDERGROUND CONDUITS.
- 12 REPLACE EXISTING PANEL 'WPS' WITH A NEW PANELBOARD WITH FEATURES AND RATINGS AS SHOWN IN SCHEDULE. EXISTING CIRCUITS WILL BE CONNECTED TO NEW PANELBOARD IN SPACES SHOWN.



**SALEM PUMP HOUSE BLDG 173 NEW WORK PLAN - ELECTRICAL**  
 SCALE: 1/4" = 1'-0"



**WWA PUMP BLDG 172 HOUSE NEW WORK PLAN - ELECTRICAL**  
 SCALE: 1/4" = 1'-0"

PANEL SPS SCHEDULE (REPLACED)																						
225A, 200AMP MCB, 208/120V, 3PH, 4W, SN, GB										MOUNT: SURFACE		22.0 kcal/c										
LOCATION: SALEM PUMP STATION																						
LOAD DESCRIPTION	LOAD (KVA)			BKR TRIP	WIRE SIZE	NEU SIZE	GND SIZE	COND SIZE	CKT NO.	PHASE	CKT NO.	COND NO.	NEU SIZE	GND SIZE	WIRE SIZE	BKR TRIP	LOAD (KVA)			LOAD DESCRIPTION		
	A	B	C														A	B	C			
RECEPTS	0.2	—	—	20	EX	EX	EX	EX	1	A	EX	EX	EX	EX	EX	20	0.2	—	—	VALVE BLDG		
LIGHTS	—	0.2	—	20	EX	EX	EX	EX	3	B	EX	EX	EX	EX	EX	20	—	0.2	—	VALVES		
EXH FAN	—	—	0.4	15	EX	EX	EX	EX	5	C	EX	EX	EX	EX	EX	20	—	—	0.7	SIEMENS PXC		
HEATER	1.1	—	—	—	—	—	—	—	—	A	—	—	—	—	—	70	5.5	—	—	PUMPS VFD		
LIGHTS	—	1.1	—	—	—	—	—	—	—	B	—	—	—	—	—	70	—	—	5.5	—		
RECEPTS	0.2	—	—	20	EX	EX	EX	EX	3	A	EX	EX	EX	EX	EX	30	2.1	—	—	MIOX SKID		
HEATER 173-EUH-1	2.5	—	—	15	EX	EX	EX	EX	1	A	EX	EX	EX	EX	EX	20	0.6	—	—	CHEM PUMP P-2		
EXH FAN 173-EF-1	—	—	0.4	15	EX	EX	EX	EX	23	C	EX	EX	EX	EX	EX	20	—	—	0.2	CONTROL VALVE		
DDC PANEL	0.3	—	—	20	EX	EX	EX	EX	25	A	—	—	—	—	—	20	—	—	—	SPACE		
CHEM PUMP P-1	—	—	0.6	20	EX	EX	EX	EX	29	B	—	—	—	—	—	20	—	—	—	SPACE		
SPACE	—	—	—	—	—	—	—	—	33	A	—	—	—	—	—	20	—	—	—	SPACE		
SPACE	—	—	—	—	—	—	—	—	35	B	—	—	—	—	—	20	—	—	—	SPACE		
SPACE	—	—	—	—	—	—	—	—	37	A	—	—	—	—	—	20	—	—	—	SPACE		
SPACE	—	—	—	—	—	—	—	—	39	B	—	—	—	—	—	20	—	—	—	SPACE		
SPACE	—	—	—	—	—	—	—	—	41	C	—	—	—	—	—	20	—	—	—	SPACE		
TOTAL	4.9	4.6	5.0														8.4	8.4	7.0	TOTAL		
CONN. LOAD: 38.3 KVA										TOTAL PHASE KVA: A: 13.3 B: 13.0 C: 12.0												
DEMAND LOAD: 38.3 KVA										TOTAL PHASE AMPS: A: 110.8 B: 108.3 C: 100.0												

PANEL WPS SCHEDULE (REPLACED)																						
225A, 200A MCB, 208/120V, 3PH, 4W, SN, GB										MOUNT: SURFACE		22.0 kcal/c										
LOCATION: WWA PUMP STATION																						
LOAD DESCRIPTION	LOAD (KVA)			BKR TRIP	WIRE SIZE	NEU SIZE	GND SIZE	COND SIZE	CKT NO.	PHASE	CKT NO.	COND NO.	NEU SIZE	GND SIZE	WIRE SIZE	BKR TRIP	LOAD (KVA)			LOAD DESCRIPTION		
	A	B	C														A	B	C			
RECEPTS	0.2	—	—	20	EX	EX	EX	EX	1	A	EX	EX	EX	EX	EX	20	0.2	—	—	VALVE BLDG		
LIGHTS	—	0.2	—	20	EX	EX	EX	EX	3	B	EX	EX	EX	EX	EX	20	—	0.2	—	VALVES		
EXH FAN	—	—	0.4	15	EX	EX	EX	EX	5	C	EX	EX	EX	EX	EX	20	—	—	0.7	SIEMENS PXC		
HEATER 172-EUH-1	1.1	—	—	—	—	—	—	—	—	A	—	—	—	—	—	70	5.5	—	—	PUMP VFD		
LIGHTS	—	1.1	—	—	—	—	—	—	—	B	—	—	—	—	—	70	—	—	5.5	—		
RECEPTS	0.2	—	—	20	EX	EX	EX	EX	3	A	EX	EX	EX	EX	EX	30	2.1	—	—	MIOX SKID		
HEATER 172-EUH-1	2.5	—	—	15	EX	EX	EX	EX	1	A	EX	EX	EX	EX	EX	20	0.6	—	—	CHEM PUMP P-2		
EXH FAN 172-EF-1	—	—	0.4	15	EX	EX	EX	EX	23	C	EX	EX	EX	EX	EX	20	—	—	0.2	CONTROL VALVE		
DDC PANEL	0.3	—	—	20	EX	EX	EX	EX	25	A	—	—	—	—	—	20	—	—	—	SPACE		
CHEM PUMP P-1	—	—	0.6	20	EX	EX	EX	EX	29	B	—	—	—	—	—	20	—	—	—	SPACE		
SPACE	—	—	—	—	—	—	—	—	33	A	—	—	—	—	—	20	—	—	—	SPACE		
SPACE	—	—	—	—	—	—	—	—	35	B	—	—	—	—	—	20	—	—	—	SPACE		
SPACE	—	—	—	—	—	—	—	—	37	A	—	—	—	—	—	20	—	—	—	SPACE		
SPACE	—	—	—	—	—	—	—	—	39	B	—	—	—	—	—	20	—	—	—	SPACE		
SPACE	—	—	—	—	—	—	—	—	41	C	—	—	—	—	—	20	—	—	—	SPACE		
TOTAL	4.9	4.6	5.0														8.4	8.4	7.0	TOTAL		
CONN. LOAD: 38.3 KVA										TOTAL PHASE KVA: A: 13.3 B: 13.0 C: 12.0												
DEMAND LOAD: 38.3 KVA										TOTAL PHASE AMPS: A: 110.8 B: 108.3 C: 100.0												

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

Order Plans @

<p>Revisions</p> <p>Date</p>	 Atriax, pllc 102 3rd Avenue, NE PO Box 1829 Hickory, NC 28603 Phone: 828.315.9982 Fax: 828.315.9984 www.atriaxgroup.com	 WileyWilson 127 N. Main Street Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 STEPHEN A. BOHANNAN Lic. No. 28573 4/28/2017 PROFESSIONAL ENGINEER	Approved: Energy Engineer  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CONSTRUCTION DOCUMENTS</div>	Approved: Safety Manager  Approved: Infection Control Officer  Approved: GEMS Coordinator	Approved: Service Chief  Approved: Chief of Staff  Approved: Associate Director	Drawing Title EP-112 BUILDINGS 172 AND 173 ELECTRICAL FLOOR PLANS  Approved: Chief of Facility Management Svc.  Approved: Medical Center Director	Project Title RENOVATE FOR WATER QUALITY  Building Number 172 AND 173  Location VA MEDICAL CENTER, SALEM, VA 24153	Date 04/28/2017  Project No. 658-15-101  DRAWING SET 2592 Dwg. 155 Of 155	Veterans Affairs
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