



Village of Ashville, Ohio
New Water Treatment Plant

ADDENDUM 2

December 12, 2025

Planholders of the Village of Ashville, Water Treatment Plant Improvement, project are hereby notified of the following amendments to the Contract Documents. This Addendum is hereby made a part of the Contract Documents.

SPECIFICATIONS

Section C-800: Add C-800-4, Exhibit 4 - Allowances B and C to the Supplementary Conditions. Exhibit 4 includes documents listed in the Supplementary Conditions, Article 13.

Section 01021, Sections 4.01 and 4.02, replace with the attached.

DRAWINGS

PE-0.1, replace with the attached.

M-0.5, replace with the attached.

E-1.1, replace with the attached.

E-1.4, replace with the attached.

I-0.2, replace with the attached.

I-0.9, replace with the attached.

Attachments: Specification C-800, Exhibit 4 – Allowance B and C

Specification 01021

Drawings: PE-0.1, M-0.5, E-1.1, E-1.4, I-0.2 and I-0.9

RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED ON PAGE C-410 - 1 OF THE BID.

**1000-8177.002
2025**

**Issued for Bid
Village of Ashville, OH
New Water Treatment Plant**

EXHIBIT 4

**Allowance B and C
(Addendum 2, Issued 12/12/2025)**



November 25, 2025

Jake Meinerding, PE
Cincinnati Office Director
Jones & Henry Engineers, LTD
4357 Ferguson Drive, Suite 220
Cincinnati, OH 45245

Re: Proposal for Village of Ashville, OH – Water Treatment Plant – Control Panel(s) Supply, PLC and SCADA Programming, Construction/Bidding Support, and System Commissioning

Dear Mr. Meinerding:

T&M Associates (T&M) is pleased to submit this proposal for determining the allotment for T&M to supply the Main Control Panel, Wellfield Remote Control Panel and the two Water Tower Level Panels for the Village of Ashville, OH WTP upgrade project. The I&C scope also includes construction support, SCADA/HMI programming, factory acceptance testing, commissioning and training of city Operators on the operations of the new water plant. T&M will provide the cellular data plan. T&M has estimated that each cellular router will initially be setup for a 2GB data plan.

Scope of Services – Construction Phase Services –Bid Allowance

Following design phase of this project, T&M will provide Systems Integration Phase services in support of the selected General Contractor, on behalf of the Village and J&H. The following tasks define the scopes of work that will be handled by “Bid allowance” in the total construction costs of the project.

- T&M will supply J&H responses to contractor RFIs for I&C power, controls, communications, and instrumentation.
 - T&M has assumed 60 hours of support and meetings
- System Integration Services will include:
 - Control panel(s) fabrication including PLCs and panel components, including integrated cellular communications hardware for Wellfield and Water Tower panels
 - Main Control Panel
 - Wellfield Control Panel
 - SR 752 Water Tower Level Control Panel
 - West Station Tank Level Control Panel
 - SCADA system computer and software procurement and configuration
 - Allen-Bradley FactoryTalk SE Runtime license
 - Allen-Bradley FactoryTalk Studio development software
 - WIN911 Alarm notification software
 - 1 each Personal Computer for SCADA



- PLC and SCADA programming
 - Includes integration of the two vendor supplied control panels
- Cellular communications from water towers and wellfield to the water plant.
- System testing, startup, and commissioning, and operator training

Assumptions

- Assumes the VFDs will be included in the Smart MCC, and provided by the General Contractor, and not included in the T&M control panels.
- Cellular hardware is incorporated into the Wellfield and Water Tower control panels. Antennas for the panels will be mounted to maximize signal strength (field determined). A 15' foot antenna cable and mounting bracket is included with the Water Tower and the Wellfield panels to maximize flexibility for signal strength.
- The cellular data plan will be evaluated for data consumption after six months to verify the appropriate data plan for the remote system.
- The FactoryTalk Studio 5000 development SCADA software has been included in the cost.
- Installation of hardware (control panels, conduits, and field wiring) will be performed by others
- It is assumed that startup and commissioning will be performed only after the system has been installed

Cost

	COST
Programming Labor	\$46,140
Equipment - Control Panels, PC, and Software	\$91,514
Commissioning	\$60,155
Construction support	\$11,940
Bid Allowance Total	\$209,749
Village of Ashville Data Plan	
Cellular Plan (annual cost provided)	\$2,547
Total	\$2,547



Village of Ashville, OH – Water Treatment Plant and Water Tower
T&M Associates – I&C Scope for Jones & Henry

T&M appreciates the opportunity to support J&H with this Instrumentation & Controls System Integration services for the Village of Ashville, OH. If you should have any questions, please feel free to call me at 614-207-5399.

Very truly yours,

T&M ASSOCIATES

Timothy J. Hoehnke
Automation Group Manager

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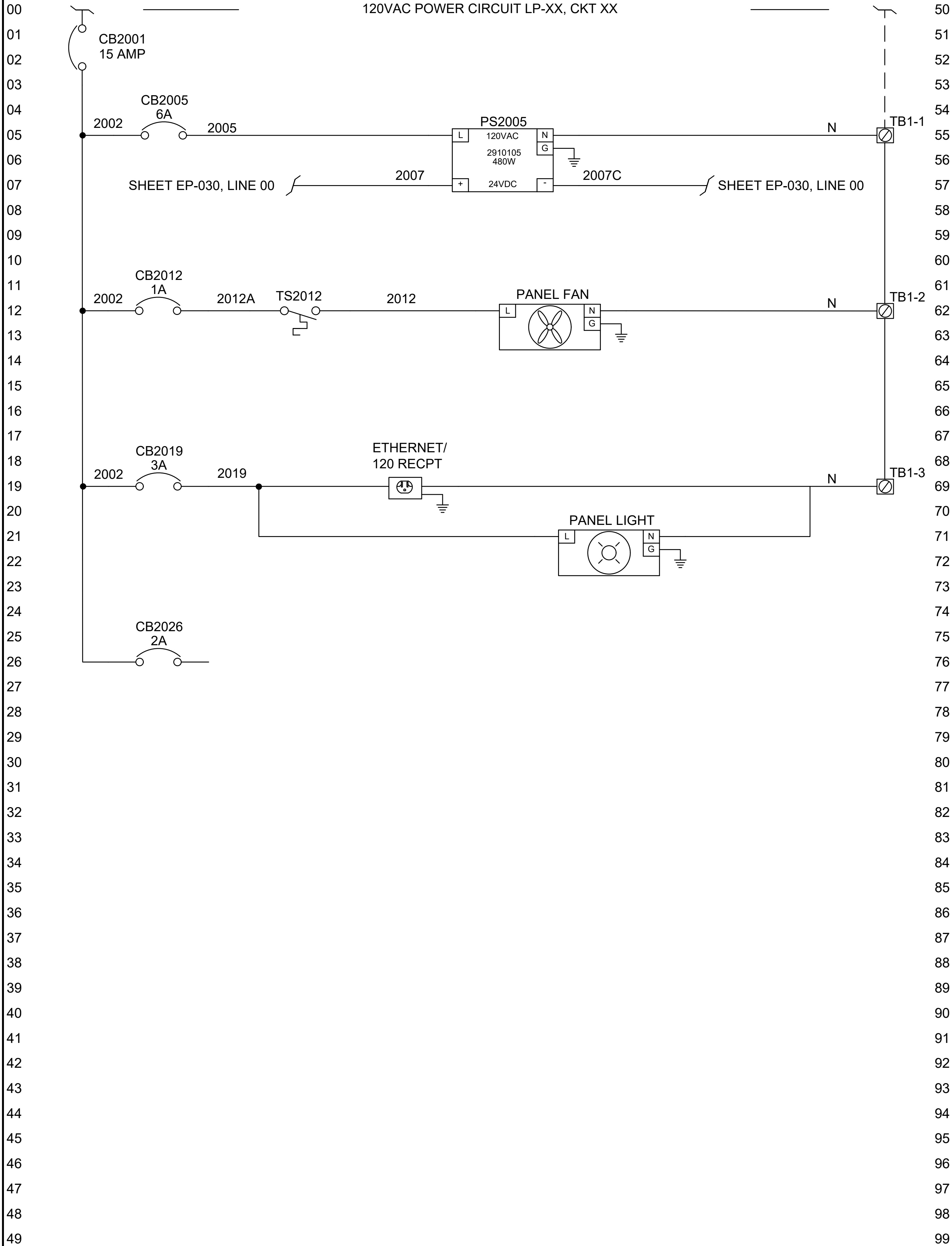
NEW WATER TREATMENT PLANT SHEET INDEX		
DWG #	SHT #	DESCRIPTION
G-001	1	SHEET INDEX
EP-020	2	120 VAC MAIN CONTROL POWER SCHEMATIC
EP-030	3	24 VDC MAIN CONTROL POWER SCHEMATIC
EP-040	4	MAIN CONTROL RELAY SCHEMATIC
EP-050	5	MAIN CONTROL DISCRETE INPUT SCHEMATIC 1
EP-051	6	MAIN CONTROL DISCRETE INPUT SCHEMATIC 2
EP-060	7	MAIN CONTROL DISCRETE OUTPUT SCHEMATIC
EP-070	8	MAIN CONTROL ANALOG INPUT SCHEMATIC 1
EP-071	9	MAIN CONTROL ANALOG INPUT SCHEMATIC 2
EP-080	10	MAIN CONTROL ANALOG OUTPUT SCHEMATIC
MP-010	11	MAIN CONTROL PANEL INTERNAL LAYOUT
MP-001	12	MAIN CONTROL PANEL EXTERNAL LAYOUT
EP-120	13	120 VAC WELLFIELD REMOTE I/O PANEL POWER SCHEMATIC
EP-130	14	24 VDC WELLFIELD REMOTE I/O PANEL POWER SCHEMATIC
EP-140	15	24 VDC WELLFIELD REMOTE I/O PANEL RELAY SCHEMATIC
EP-150	16	WELLFIELD REMOTE I/O PANEL DISCRETE INPUT SCHEMATIC
EP-160	17	WELLFIELD REMOTE I/O PANEL DISCRETE OUTPUT SCHEMATIC
EP-170	18	WELLFIELD REMOTE I/O PANEL ANALOG INPUT SCHEMATIC
MP-110	19	WELLFIELD REMOTE I/O INTERNAL PANEL LAYOUT
MP-101	20	WELLFIELD REMOTE I/O EXTERNAL PANEL LAYOUT
EP-220	21	120 VAC SR 752 TOWER REMOTE I/O PANEL POWER SCHEMATIC
EP-230	22	24 VDC SR 752 TOWER REMOTE I/O PANEL POWER SCHEMATIC
EP-250	23	SR 752 TOWER REMOTE I/O PANEL DISCRETE INPUT SCHEMATIC
EP-270	24	SR 752 TOWER REMOTE I/O PANEL ANALOG INPUT SCHEMATIC
MP-210	25	SR 752 TOWER REMOTE I/O INTERNAL PANEL LAYOUT
MP-201	26	SR 752 TOWER REMOTE I/O EXTERNAL PANEL LAYOUT
EP-320	27	120 VAC WEST STATION REMOTE I/O PANEL POWER SCHEMATIC
EP-330	28	24 VDC WEST STATION REMOTE I/O PANEL POWER SCHEMATIC
EP-350	29	WEST STATION REMOTE I/O PANEL DISCRETE INPUT SCHEMATIC
EP-370	30	WEST STATION REMOTE I/O PANEL ANALOG INPUT SCHEMATIC
MP-310	31	WEST STATION REMOTE I/O INTERNAL PANEL LAYOUT
MP-301	32	WEST STATION REMOTE I/O EXTERNAL PANEL LAYOUT
E-01	33	CABLE SCHEDULE 1
E-02	34	CABLE SCHEDULE 2
E-03	35	CABLE SCHEDULE 3

*UL508A PANEL

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PROJECT INFORMATION:
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FILE NAME: EP-020 120 VAC MAIN CONTROL POWER SCHEMATIC.DWG
LAST SAVED DATE AND TIME: 26 Nov 2025, 11:09AM
LAST SAVE BY: Sgambill

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PROFESSIONAL ENGINEER



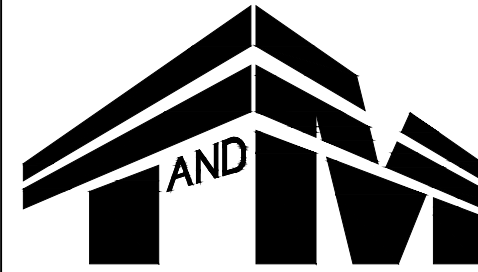
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JONES AND HENRY ENGINEERING

NEW WATER TREATMENT PLANT

ASHVILLE, OHIO

120 VAC MAIN CONTROL
POWER SCHEMATIC



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TEL 732-671-6400
FAX 732-671-7365

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DESIGNED BY

SYC

CHECKED BY

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DRAWN BY

SYC

DATE

10/02/2025

SCALE

NTS

PROJ. NO.

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DRAWING

EP-020

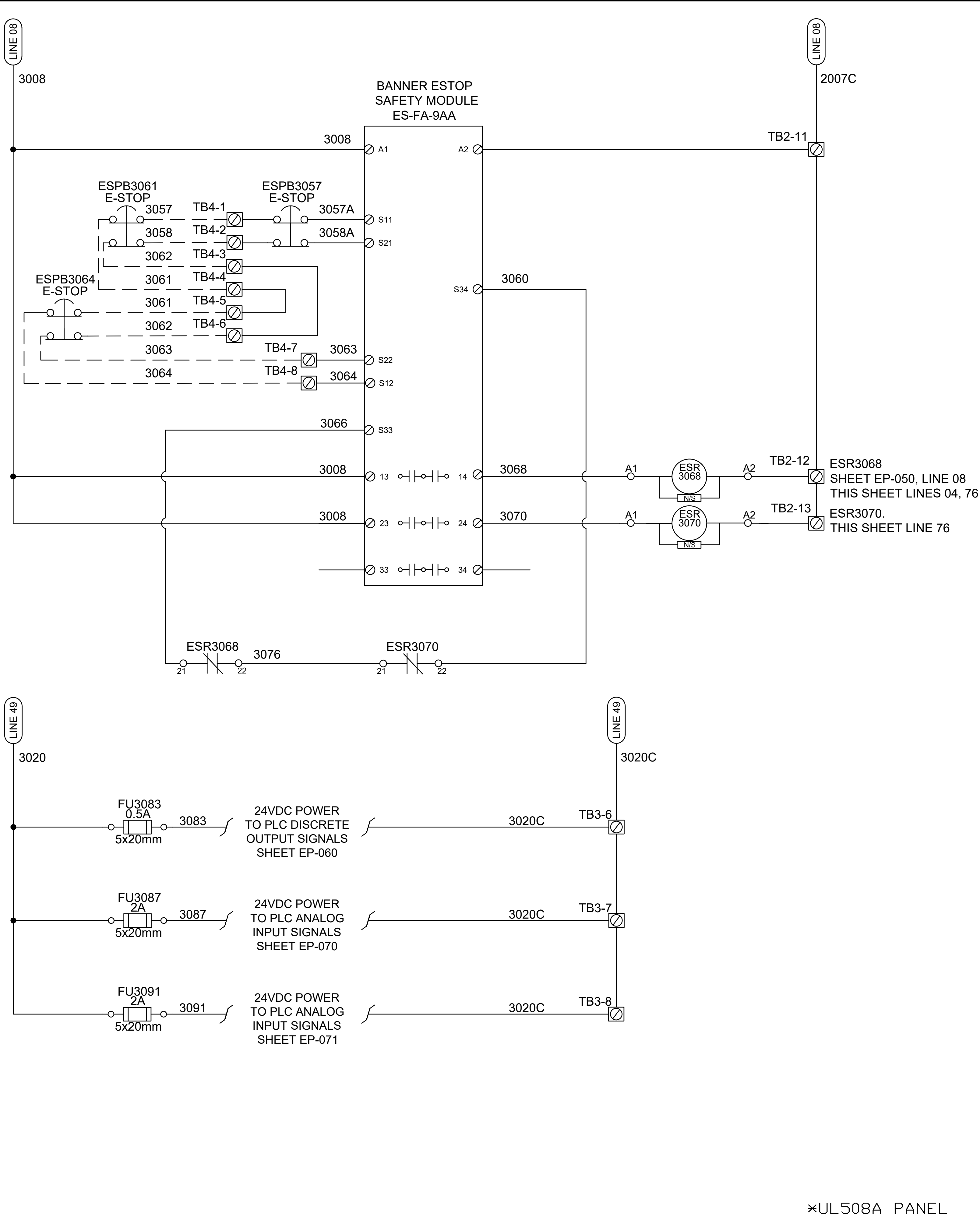
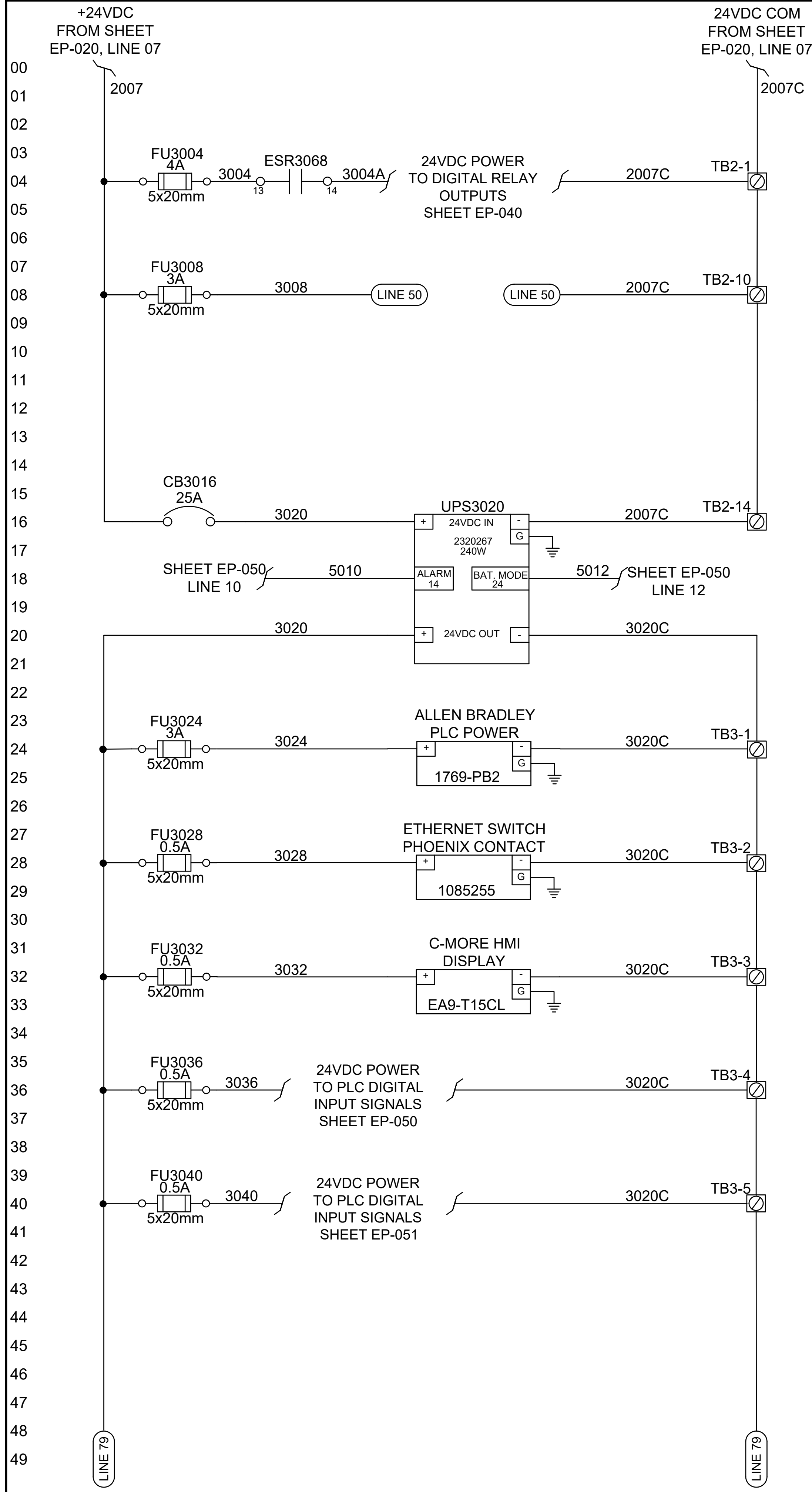
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OF 35

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DATE	10/02/2025	SHEET	03
SCALE		PROJ. NO.	JHEN00001
PROJ. NO.	JHEN00001	OF	35

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SEAN GAMBILL
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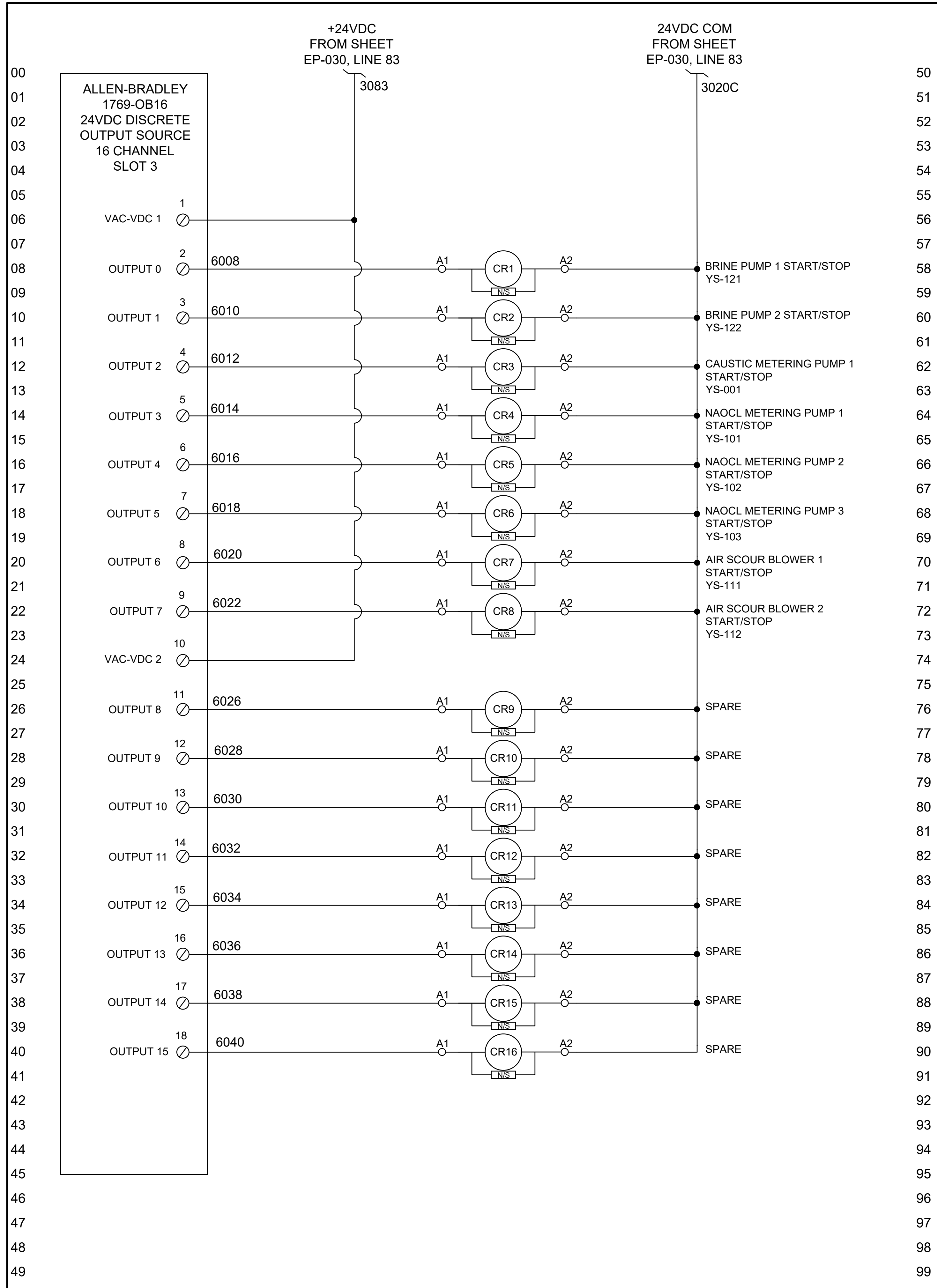
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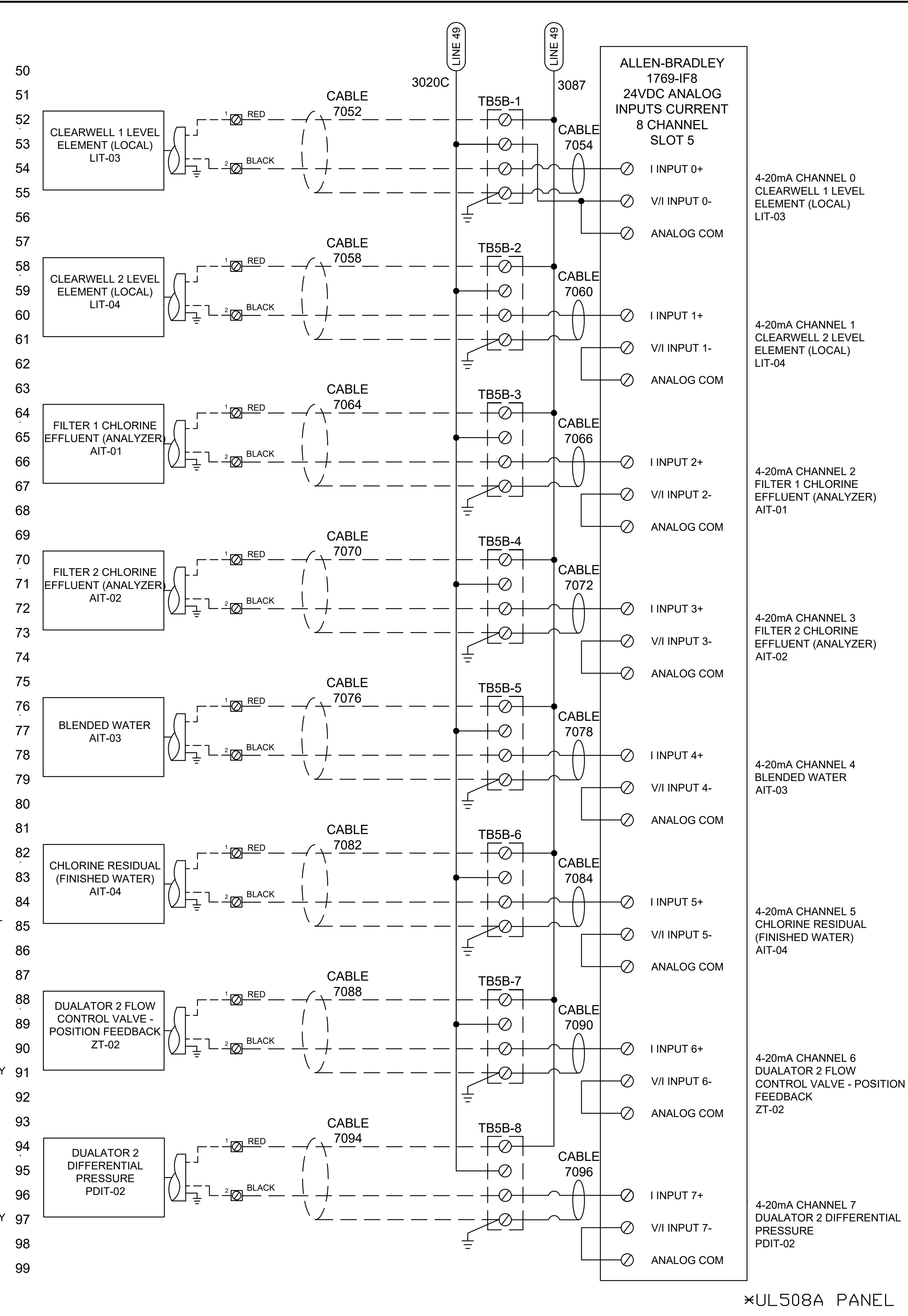
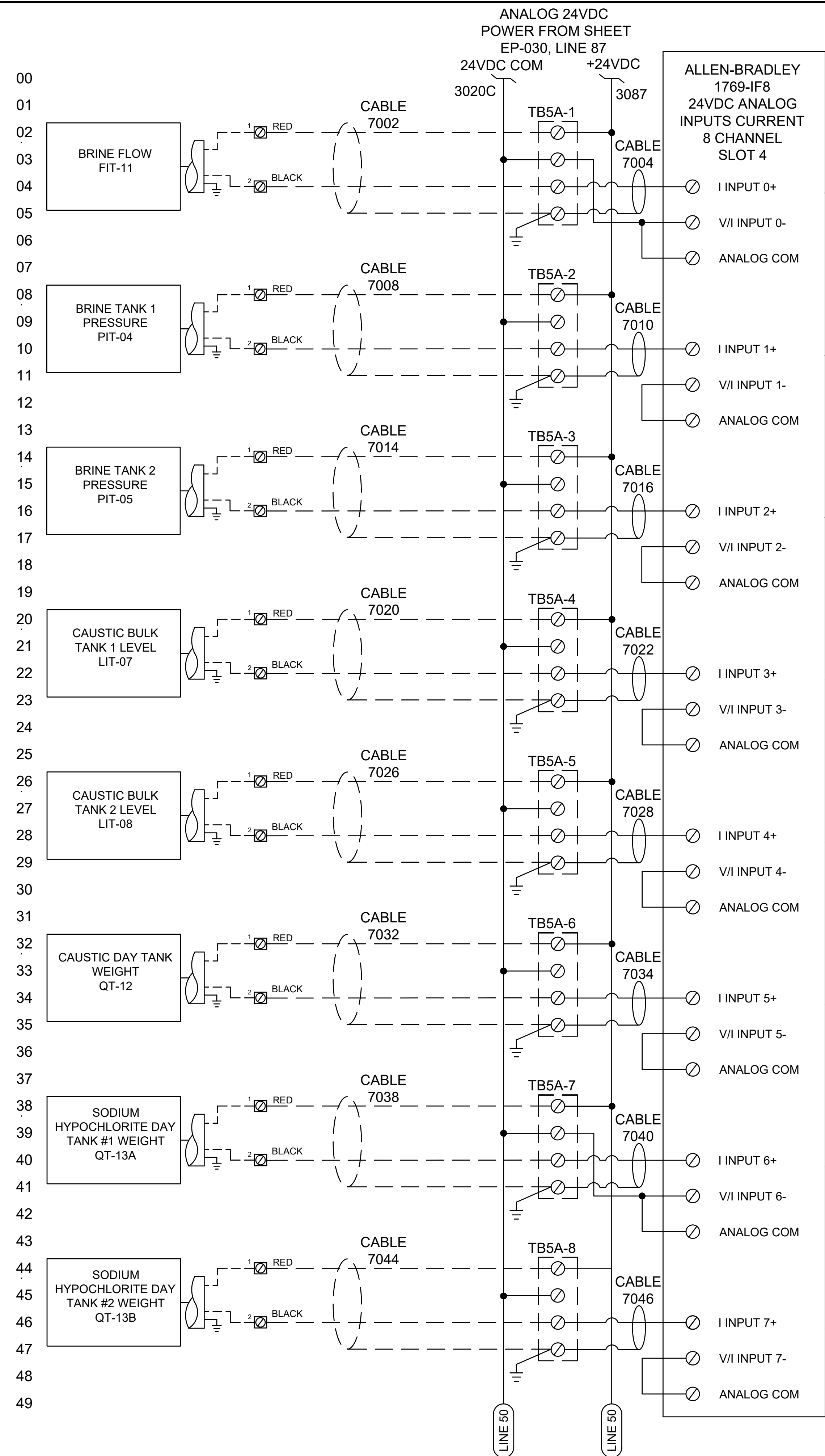
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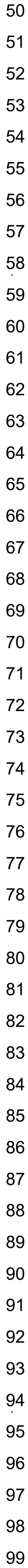
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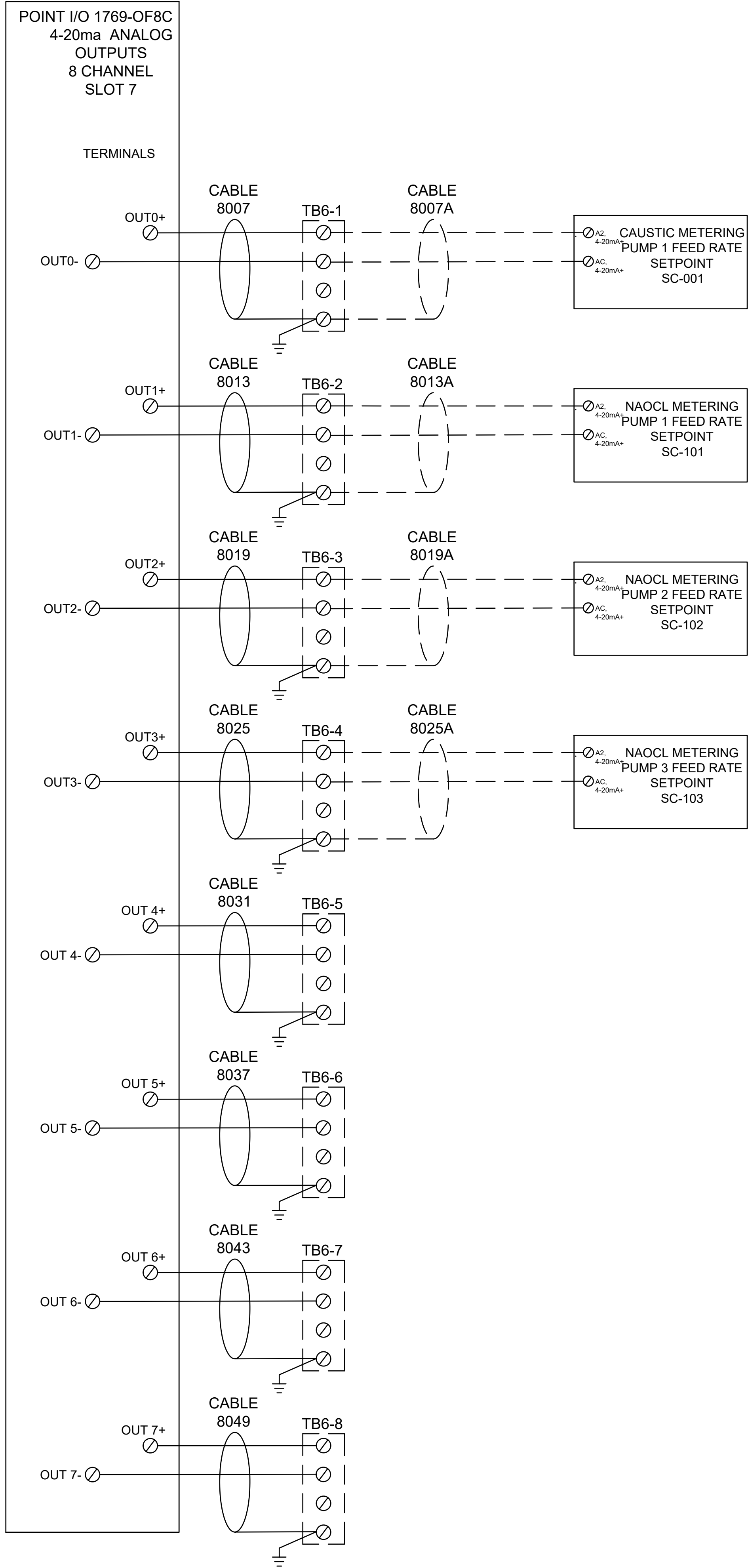
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08 PUMP 1 FEED RATE
09 SETPOINT
10 SC-001
11 OUTPUT
12 4-20mA CHANNEL 1
13 NAOCL METERING
14 PUMP 1 FEED RATE
15 SETPOINT
16 SC-101
17 OUTPUT
18 4-20mA CHANNEL 2
19 NAOCL METERING
20 PUMP 2 FEED RATE
21 SETPOINT
22 SC-102
23 OUTPUT
24 4-20mA CHANNEL 3
25 NAOCL METERING
26 PUMP 3 FEED RATE
27 SETPOINT
28 SC-103
29 OUTPUT
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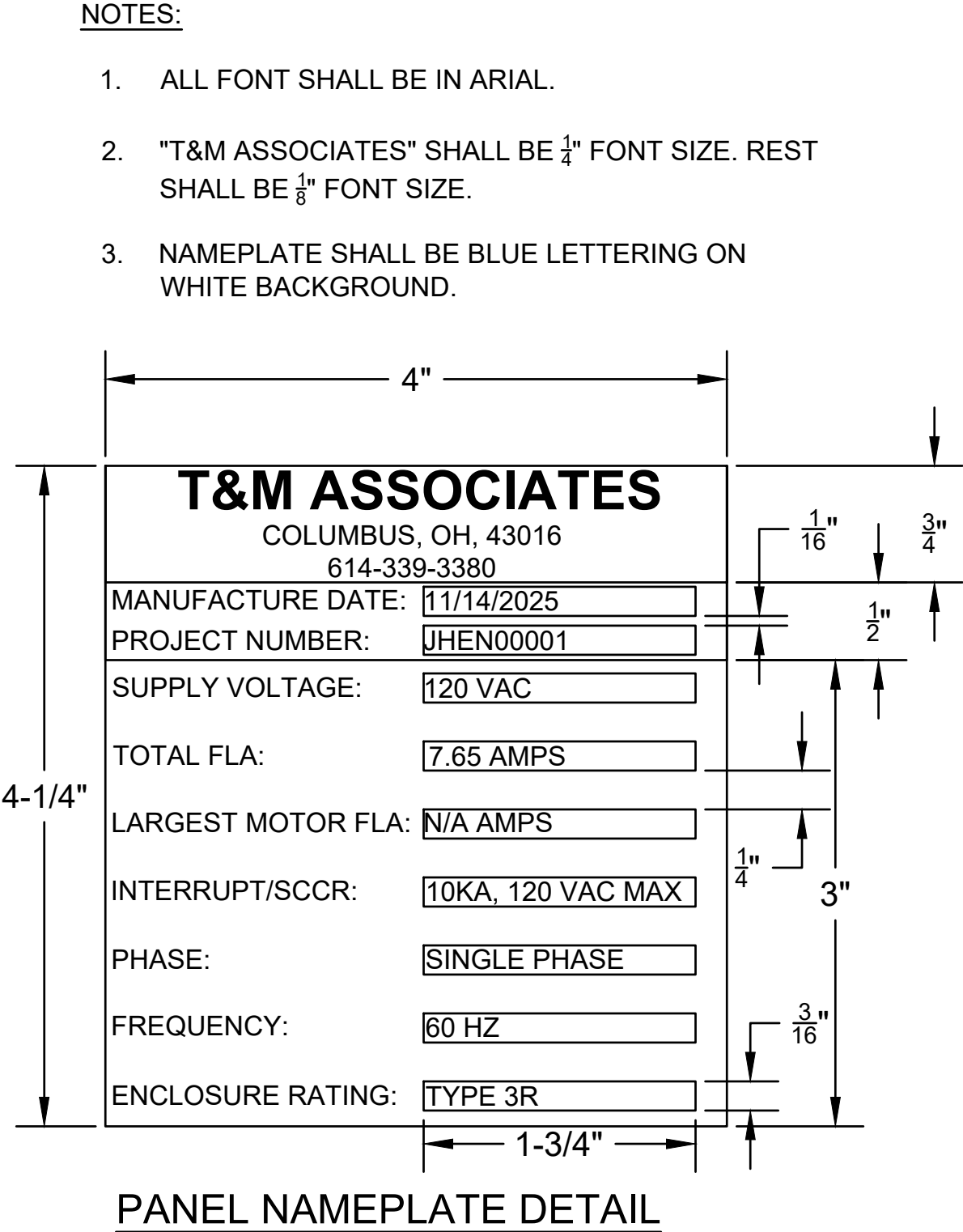
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DRAWN BY SYC	SHEET 10
DATE 10/02/2025	
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RIGHT SIDE
VIEW

NEW WATER TREATMENT PLANT MAIN PANEL EXTERIOR BOM				
Item #	—	—	—	—
1	1	Panel Enclosure	SCE-72EL3624FS	Saginaw Control
2	1	Control Panel 15" HMI	CM5-T15W	Automation Direct
3	1	6" Enclosure Fan	SCE-FA66	Saginaw Control
4	1	6" Enclosure Vent Filter	SCE-FGA66	Saginaw Control
5	1	E-Stop Pushbutton, 1 N.C., 1 N.O.	10250T714E	Eaton
6	1	E-Stop Contact Block, 1N.C.	10250T51	Eaton
7	1	LED Panel Light and Cord	SCE-SLOF and SLCC	Saginaw Control
8	1	Panel Power Outlet and Programming Port	P-R2-F3R3-U450	Saginaw Control
9	1	Panel Custom Nameplate		
10	1	24" X 24" Folding Shelf	SCE-FS2424-09	Saginaw Control
11	1	6" X 2" Phenolic Nameplate. Black with White Lettering, 3/8" Arial Font, "MAIN CONTROL PANEL"		
12				

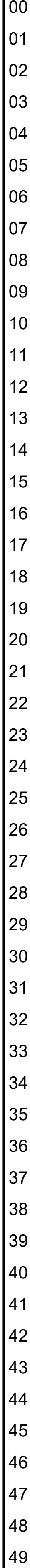
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DATE 10/02/2025	
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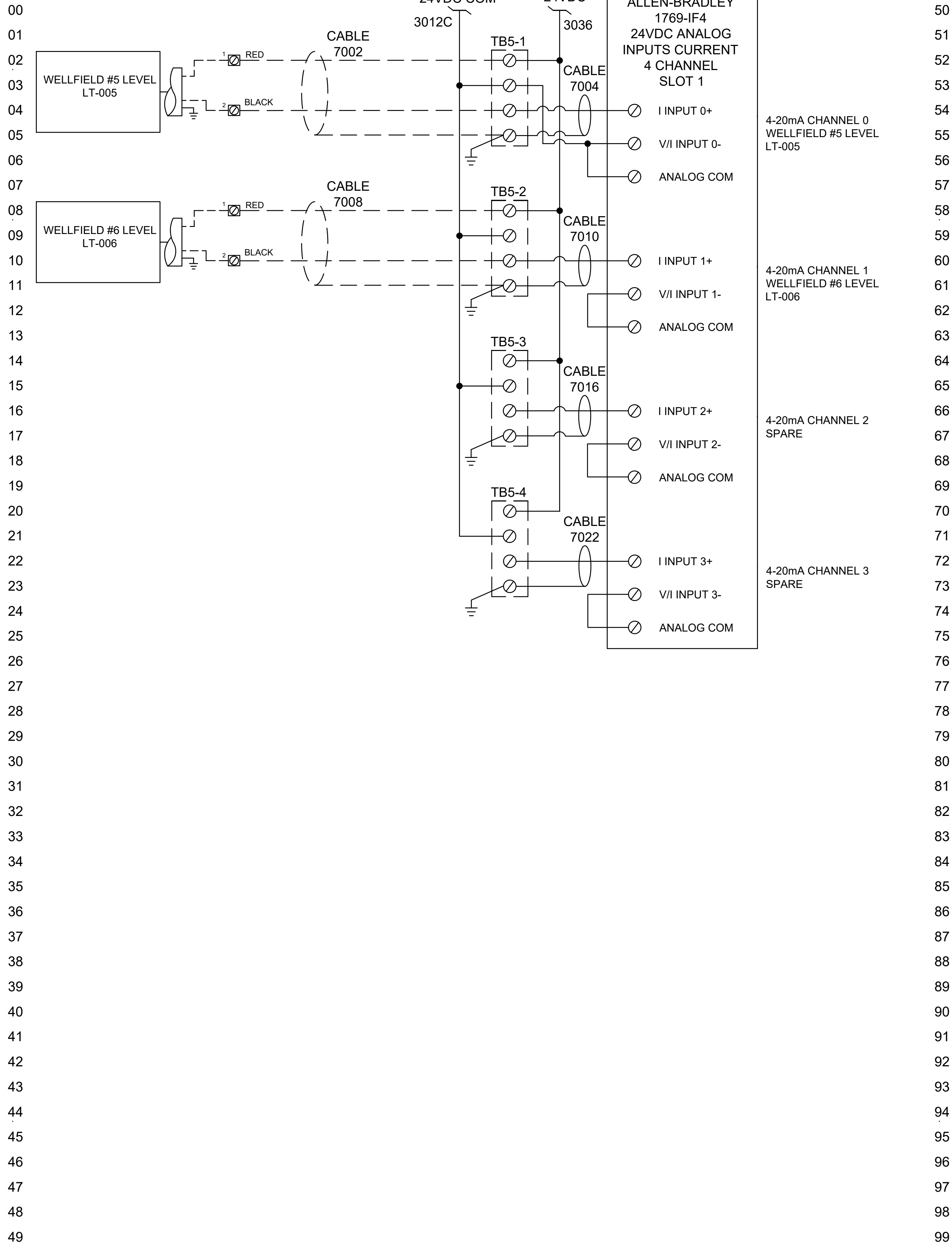
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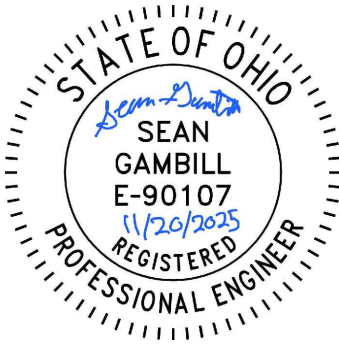
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NEW WATER TREATMENT PLANT

ASHVILLE, OHIO

WELLFIELD REMOTE I/O ANALOG
INPUT SCHEMATIC



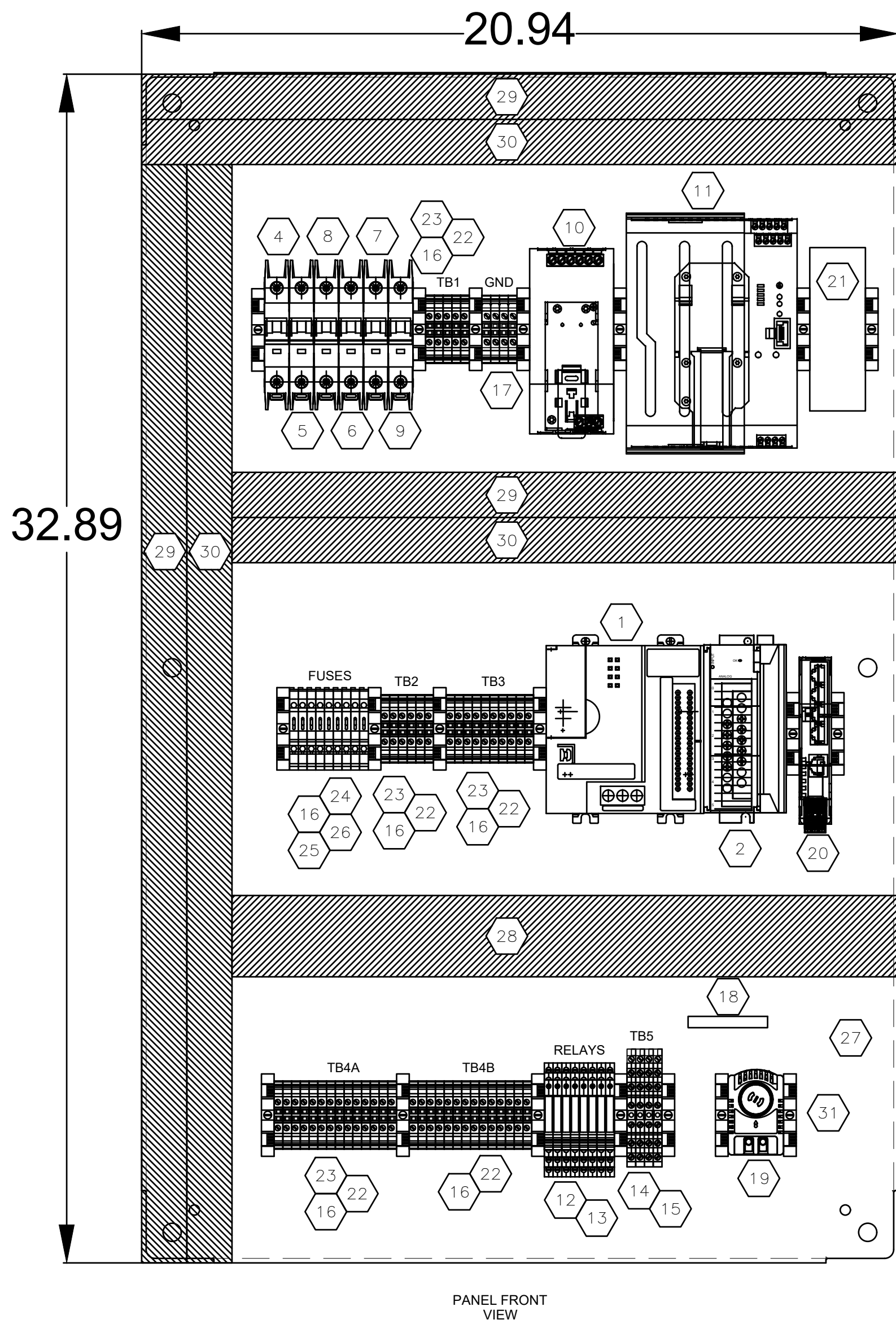
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DRAWN BY SYC	SHEET 18
DATE 10/02/2025	
SCALE	
PROJ. NO. JHEN00001	OF 35

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LAST SAVE DATE AND TIME: 26 Nov 2025, 9:46AM
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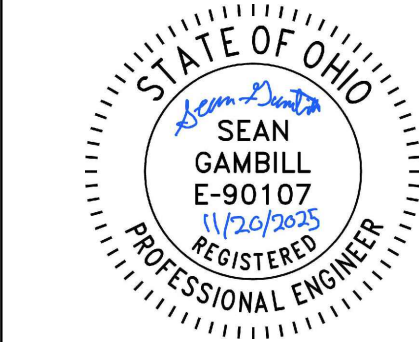


INTERNAL PANEL FRONT SECTION VIEW

NEW WATER TREATMENT PLANT REMOTE PANEL INTERIOR BOM				
Item #	Quantity	Description	Part Number	Manufacturer
1	1	Compact Logix Controller	1769-L24ERQB1B	Allen-Bradley
2	1	Compact Logix Analog Input Module, 4 Channel	1769-IF4	Allen-Bradley
3	1	IO Module Right End Cap	1769-ECR	Eaton
4	1	15A, SPST Circuit Breaker	FAZ-D15-1-NA-L-SP	Eaton
5	1	6A, SPST Circuit Breaker	FAZ-D6-1-NA-L-SP	Eaton
6	1	3A, SPST Circuit Breaker	FAZ-D3-1-NA-L-SP	Eaton
7	1	2A, SPST Circuit Breaker	FAZ-D2-1-NA-L-SP	Eaton
8	1	1A, SPST Circuit Breaker	FAZ-D1-1-NA-L-SP	Eaton
9	1	25A, SPST Circuit Breaker	FAZ-D25-1-NA-L-SP	Eaton
10	1	Panel Power Supply 20 Amp Output	2910105	Phoenix Contact
11	1	UPS Power Supply, 10A, 24VDC In-Out	2320267	Phoenix Contact
12	8	TB Relay, 6A DPDT, 24 VDC Coil	XRU1D24	Eaton
13	1	TB Relay, Jumper 80 Pos	XRAFBST500GY	Eaton
14	4	3 Tier Terminal Block with ground	XB3UKF25PE	Eaton
15	3	3 Tier Terminal Jumpers	XBAEB10DIKR	Eaton
16	XX	Terminal Block End Clamp	XBAES35C	Eaton
17	6	Ground Terminal Block	XBUT4PE	Eaton
18	1	Ground Bar	PK5GTA	Eaton
19	1	Fan Temperature Switch	SCE-TEMNO	Saginaw Control
20	1	FL SWITCH 1005N - Industrial Ethernet Switch 5 Port	1085039	Phoenix Contact
21	1	Sierra Wireless Cell Modem	XR60	Sierra Wireless
22	XX	Terminal Block	XBUT4	Eaton
23	1	Terminal Block, Jumper 50 Pos	XBAFBS506	Eaton
24	10	Fused Terminal Block, 24 VDC LED	XBUT4FBEL24	Eaton
25	7	5x20mm Fuse, 2A Fast Acting	GGM2	Merson
26	6	5x20mm Fuse, 0.5A Fast Acting	GGM1/2	Merson
27	1	Backpanel	SCE-36P24	Saginaw Control
28	AR	2" Width X 4" Height Wire Duct for DC		
29	AR	1" Width X 4" Height Wire Duct for AC		
30	AR	1" Width X 4" Height Wire Duct for DC		
31	AR	Slotted Din Rail, Top Hat Style, 35mm x 7.5mm	DKN3575ST-2	Machine Pro Products
32				
33				
34				

×UL508A PANEL

SEAN GAMBILL, P.E.
PROFESSIONAL ENGINEER



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STATE OF OH P.E.90107LICENSE No.

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NEW WATER TREATMENT PLANT

ASHVILLE, OHIO

WELLFIELD REMOTE I/O
INTERNAL PANEL LAYOUT



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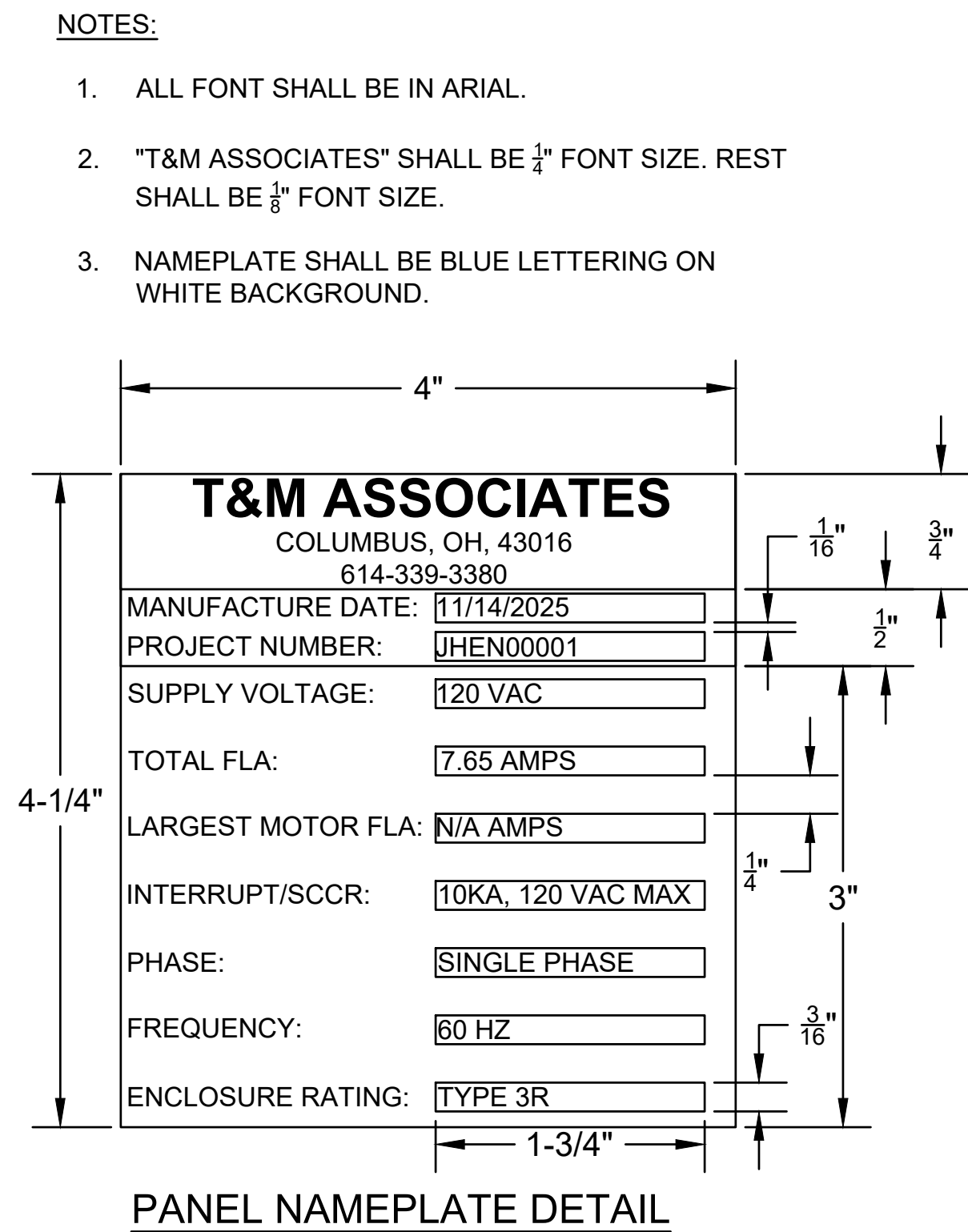
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OF 35

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NEW WATER TREATMENT PLANT WELLFIELD REMOTE PANEL EXTERIOR BOM				
Item #	Quantity	Description	Part Number	Manufacturer
1	1	Panel Enclosure	SCE-36EL2410LP	Saginaw Control
2	1	7" HMI Panel	CM5-T7W	Automation Direct
3	1	4" Enclosure Fan	SCE-FA44	Saginaw Control
4	1	4" Enclosure Vent Filter	SCE-FGA44	Saginaw Control
5	1	Panel Power Outlet and Programming Port	P-R2-F3R3-U450	Saginaw Control
6	1	LED Panel Light and Cord	SCE-SLOF and SLCC	Saginaw Control
7	1	12" X 18" Folding Shelf	SCE-FS1218	Saginaw Control
8	1	Panel Custom Namplate		
9	1	Cellular Modem Antenna (External Mounted)	6001517	Sierra Wireless
10	1	6" X 2" Phenolic Nameplate. Black with White Lettering, 3/8" Arial Font, "WELLFIELD REMOTE I/O PANEL"		

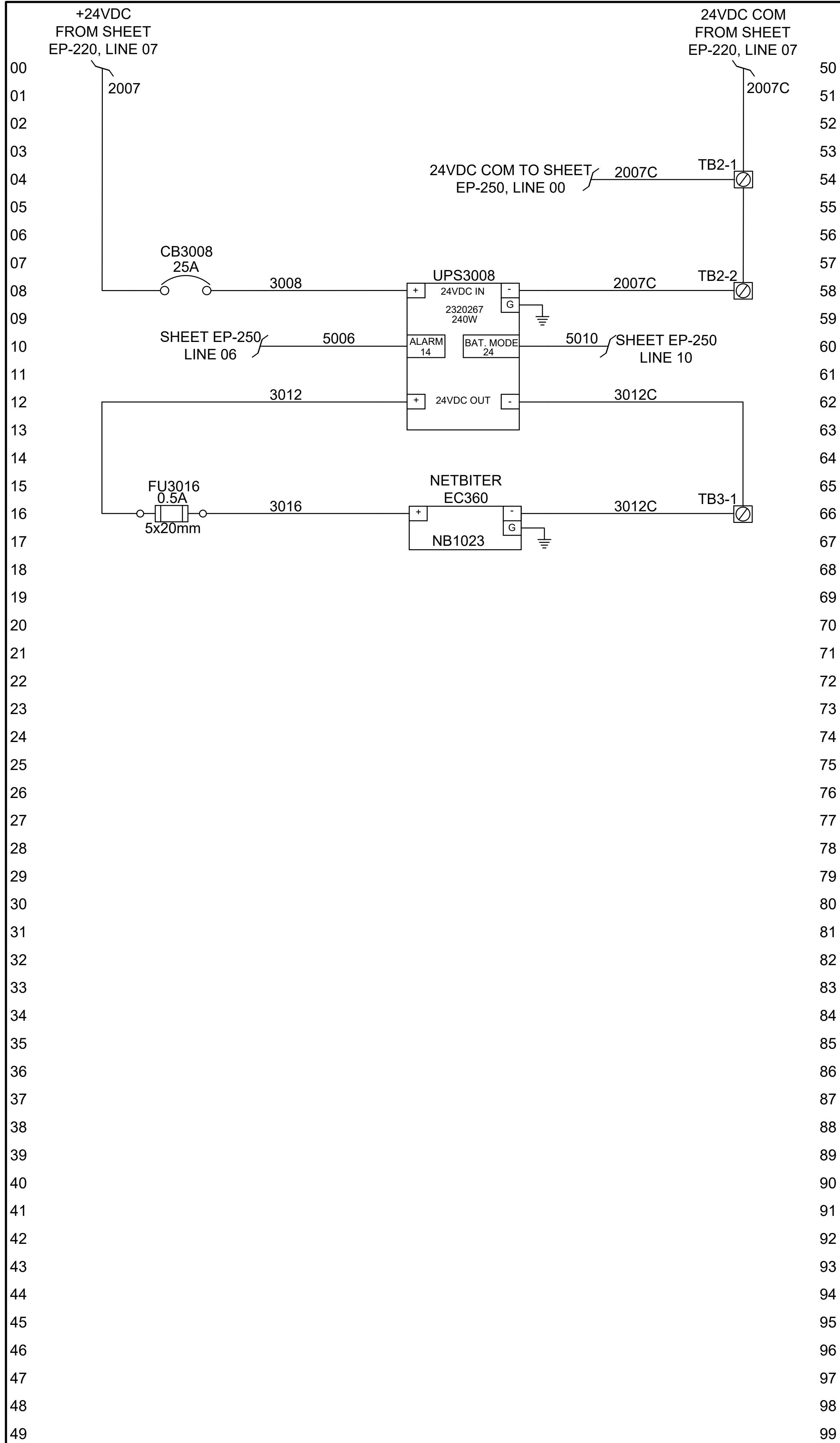
*UL508A PANEL

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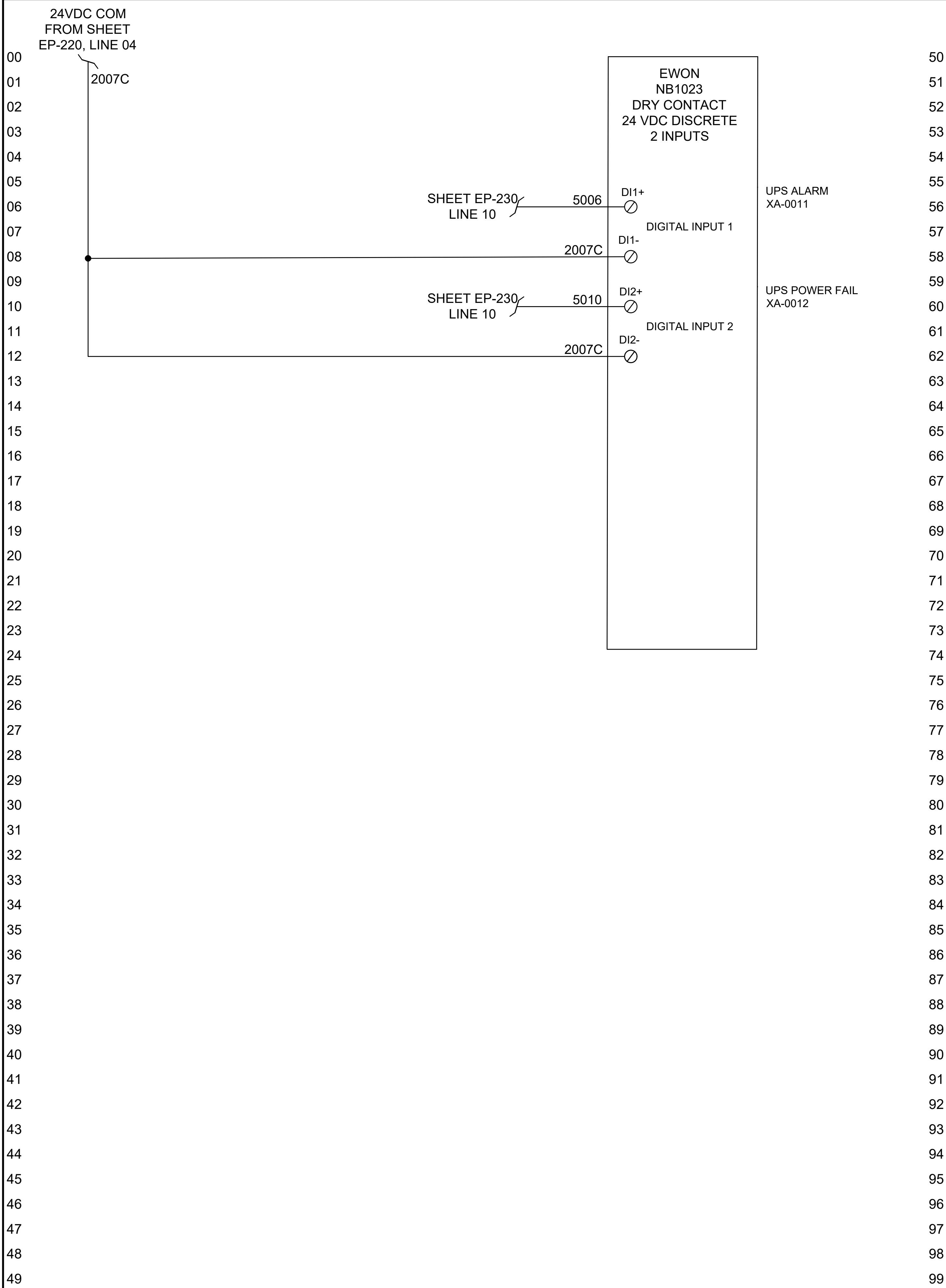
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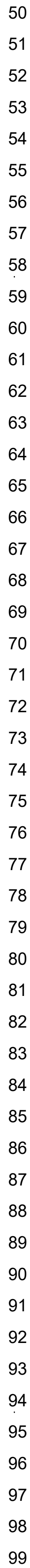
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NEW WATER TREATMENT PLANT REMOTE PANEL INTERIOR BOMB

1	11/20/25	ISSUE FOR BID	SYC	SCG
0	10/02/25	INITIAL DRAFT	SYC	TLL
NO.	DATE	REVISIONS	BY	CHKD

SEAN GAMBILL, P.E.
PROFESSIONAL ENGINEER



EXPIRES 12/31/2025
LICENSED PROFESSIONAL ENGINEER
STATE OF OH P.E.90107 LICENSE No.

JONES AND HENRY ENGINEERING

NEW WATER TREATMENT PLANT

SR 752 TOWER REMOTE I/O
INTERNAL PANEL LAYOUT

11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7365

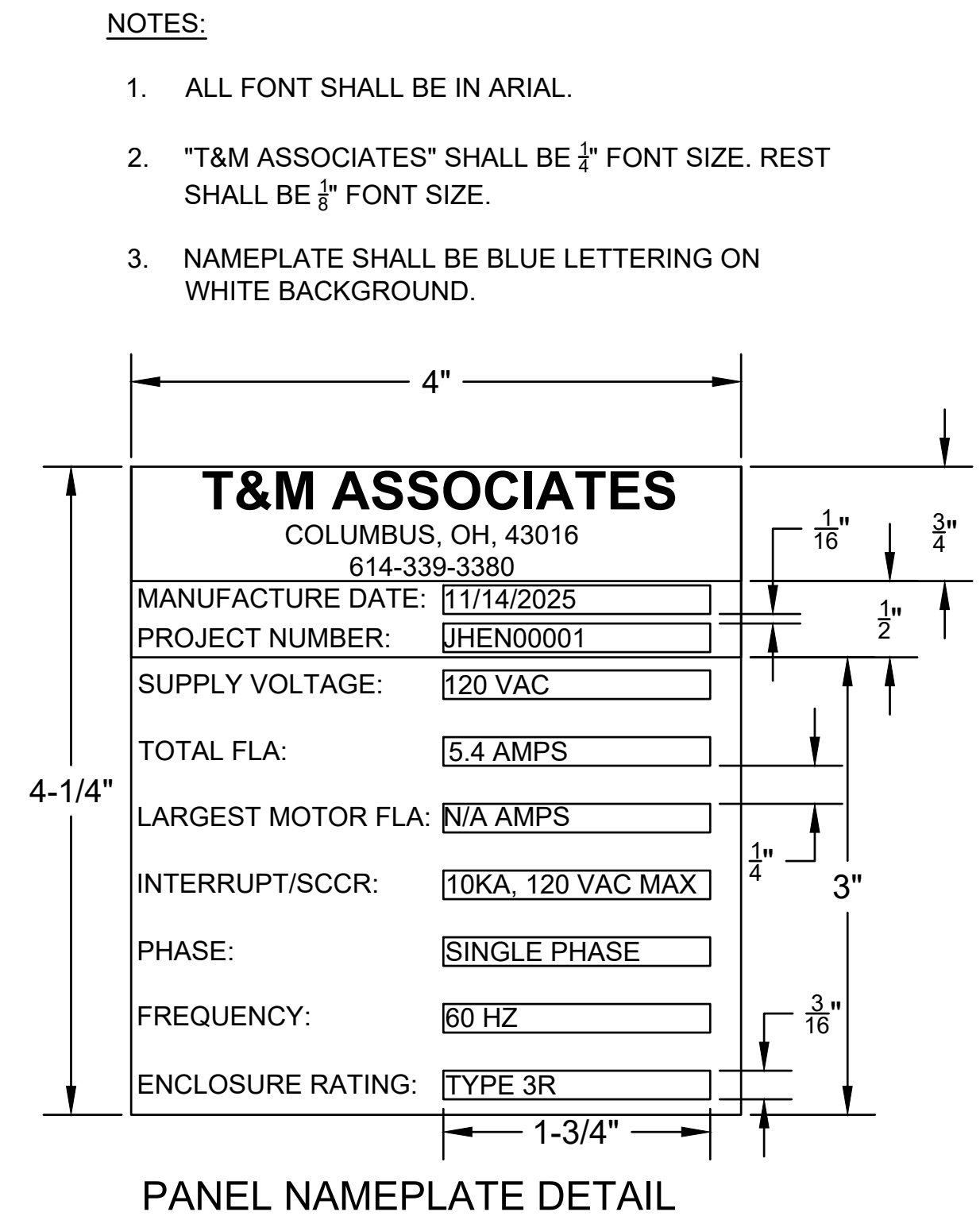
NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS
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CERTIFICATE OF AUTHORIZATION 24GA27987500

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DATE 10/02/2025	
SCALE 1:3	
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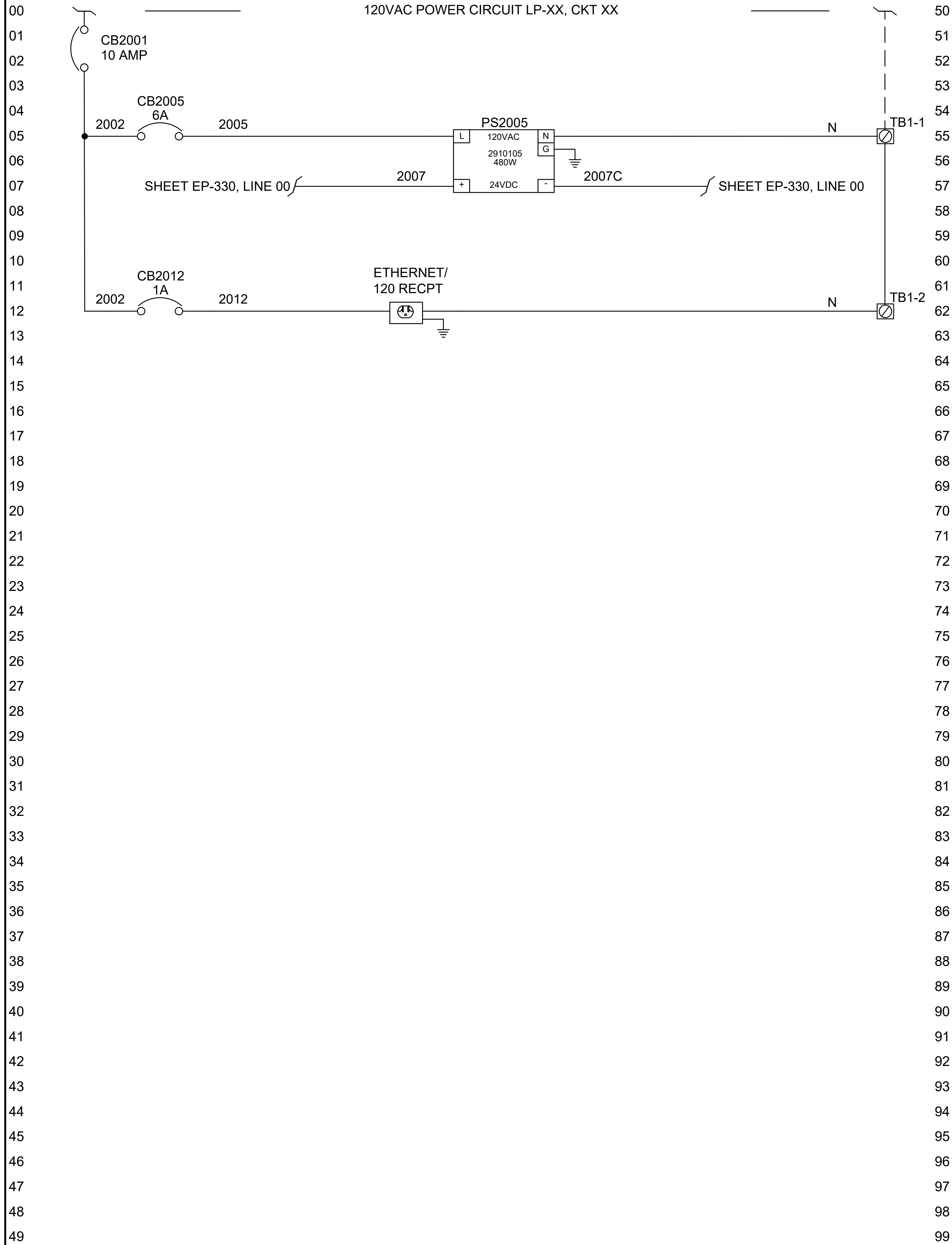
NEW WATER TREATMENT PLANT SR752 TOWER REMOTE PANEL EXTERIOR BOM				
Item #	Quantity	Description	Part Number	Manufacturer
1	1	Panel Enclosure	SCE-24EL2410LP	Saginaw Control
2	1	Panel Custom Namplate		
3	1	Panel Power Outlet and Programming Port	P-R2-F3R3-U450	Saginaw Control
4	1	Ewon 4G Antenna w/Cable and Mounting Bracket (Shipped Loose)	FAC91201_0000	HMS-Networks
5	1	6" X 2" Phenolic Nameplate. Black with White Lettering, 3/8" Arial Font, "SR752 TOWER REMOTE I/O PANEL"		

1. ALL FONT SHALL BE IN ARIAL.
2. "T&M ASSOCIATES" SHALL BE $\frac{1}{4}$ " FONT SIZE. REST SHALL BE $\frac{3}{8}$ " FONT SIZE.
3. NAMEPLATE SHALL BE BLUE LETTERING ON WHITE BACKGROUND.

*UL508A PANEL

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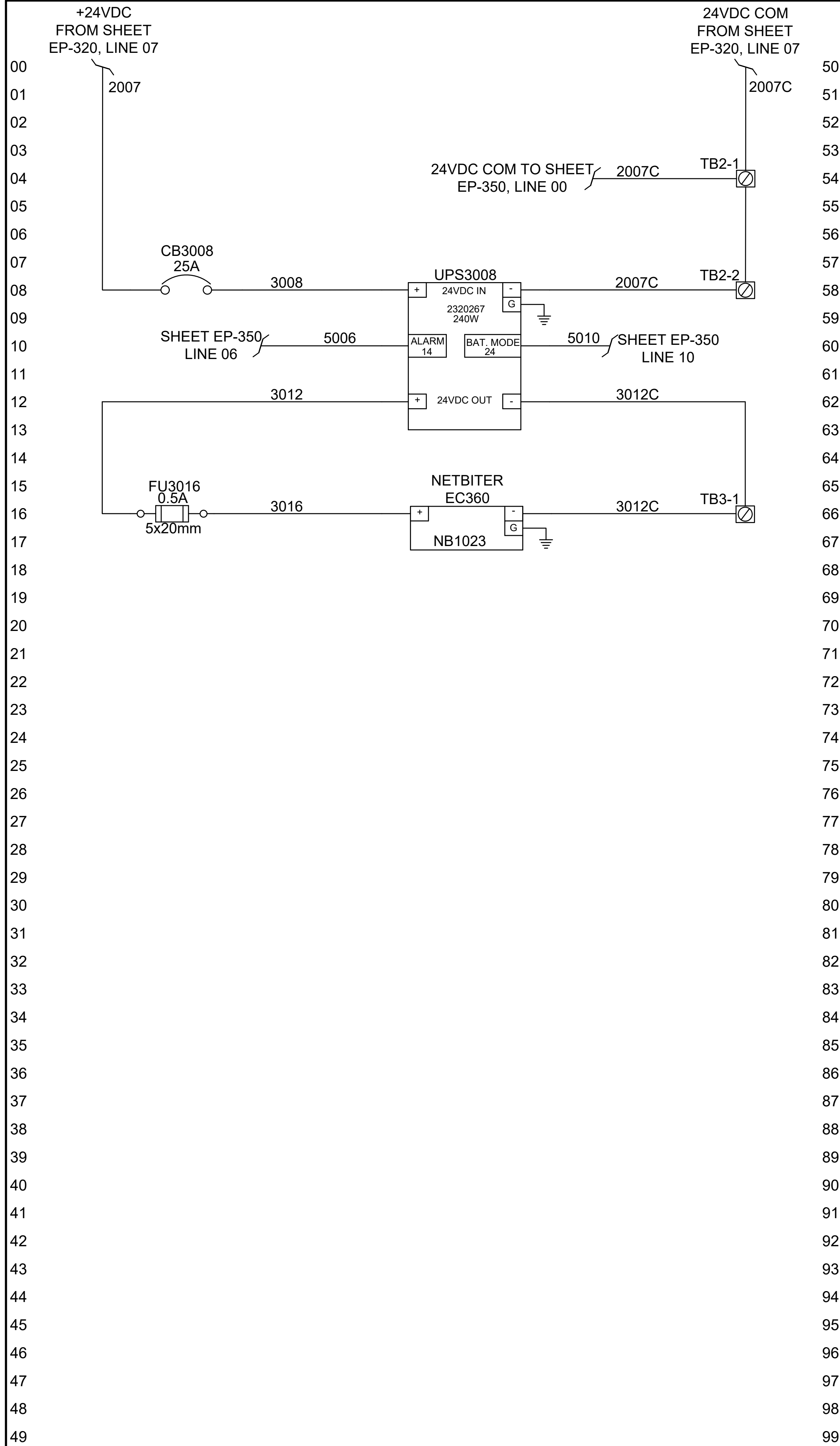
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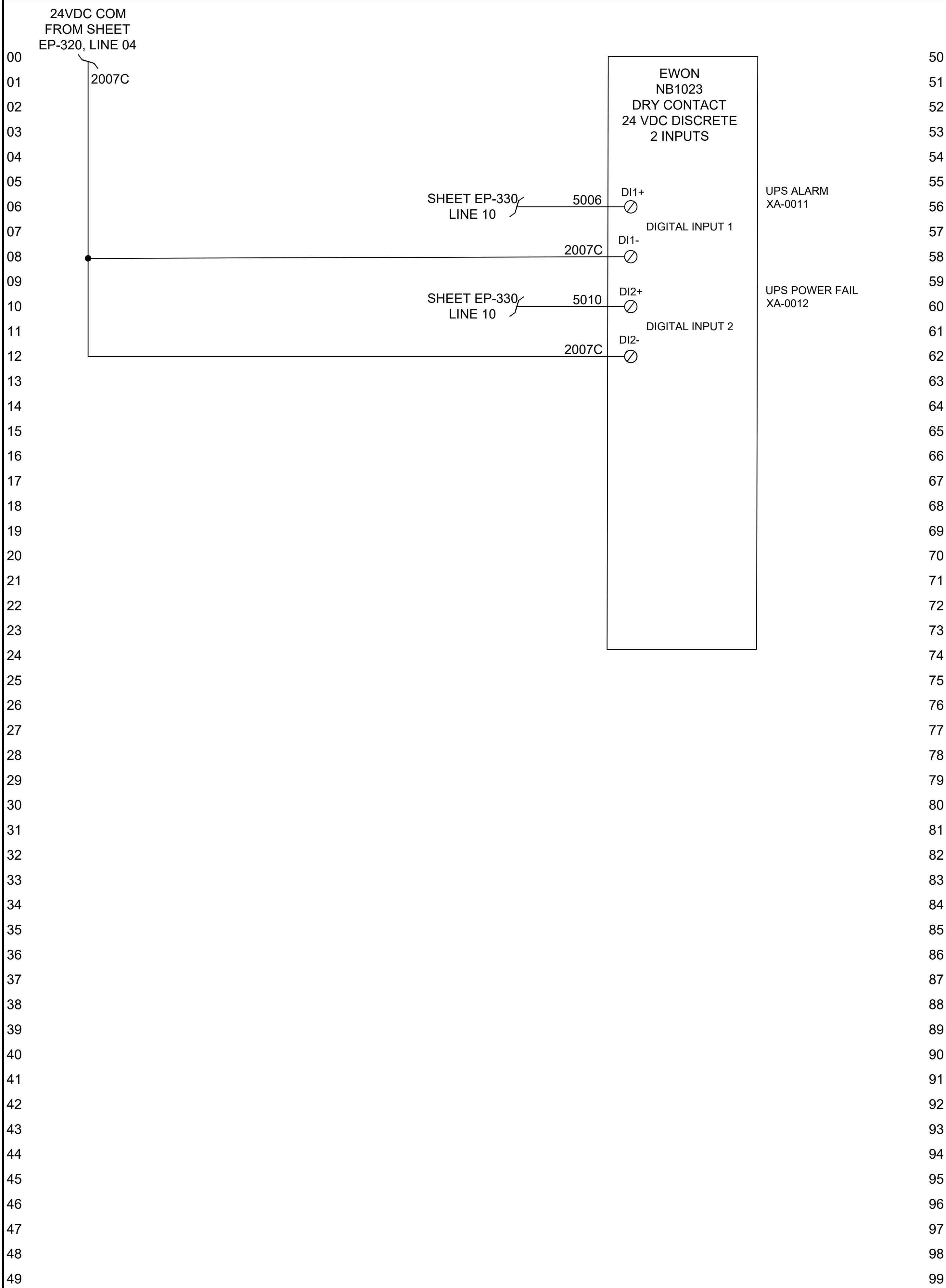
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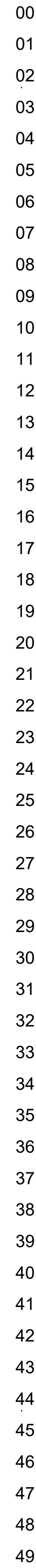
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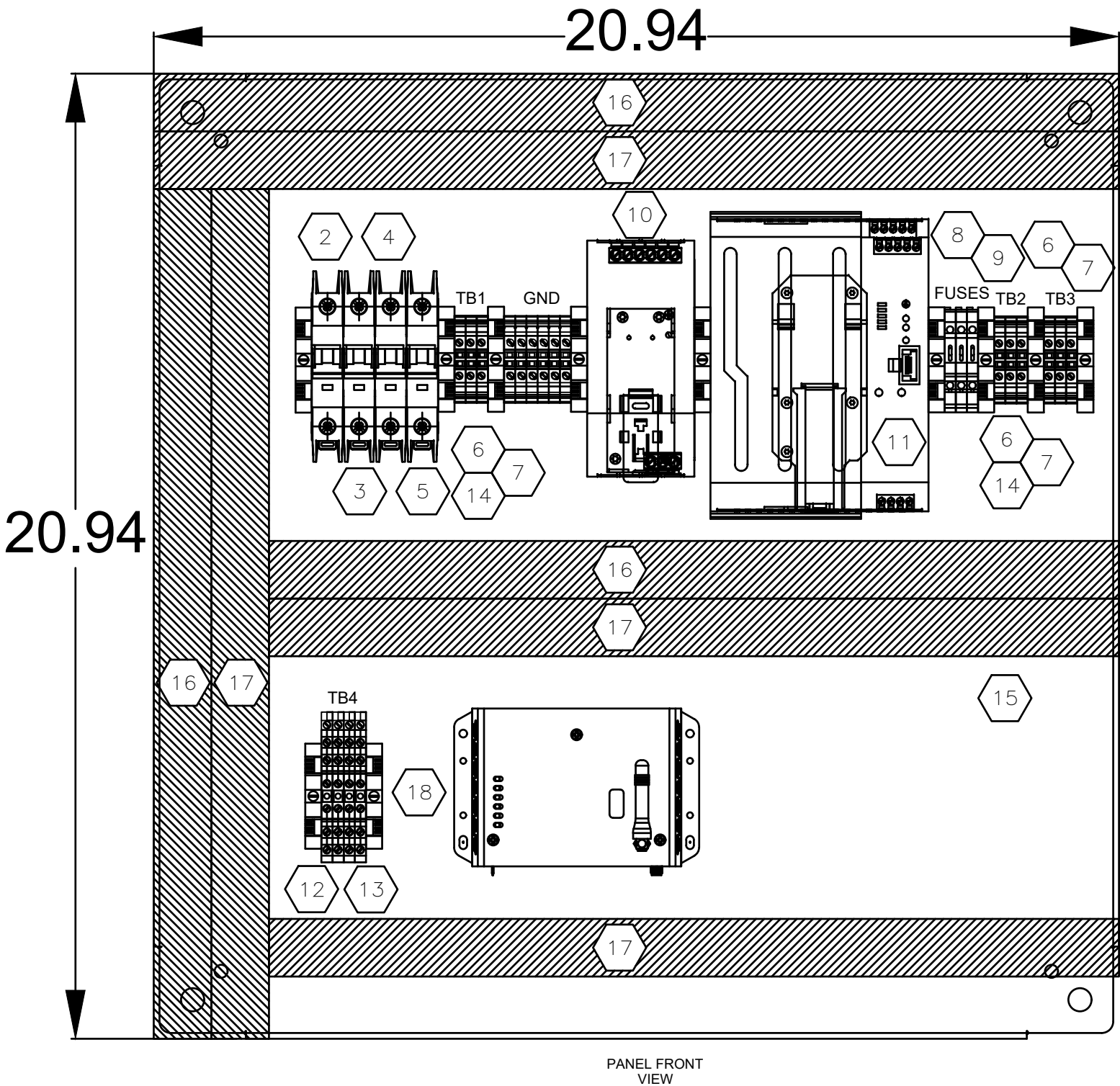
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PROJECT INFORMATION:
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FILE NAME: MP-310 WEST STATION TANK REMOTE PAN
LAST SAVED DATE AND TIME: 26 Nov 2025, 10:30AM
LAST SAVE BY: Saamhill

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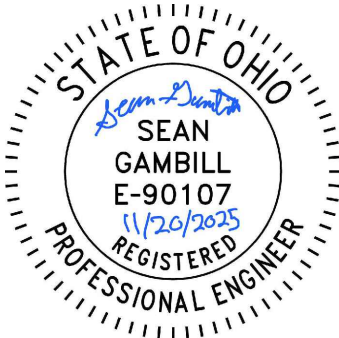


INTERNAL PANEL FRONT SECTION VIEW

NEW WATER TREATMENT PLANT WEST STATION TANK REMOTE PANEL INTERIOR BOM				
Item #	Quantity	Description	Part Number	Manufacturer
1	1	4G LTE Remote Communication Gateway	NB1023	HMS-Networks
2	1	10A, SPST Circuit Breaker	FAZ-D10-1-NA-L-SP	Eaton
3	1	6A, SPST Circuit Breaker	FAZ-D6-1-NA-L-SP	Eaton
4	1	1A, SPST Circuit Breaker	FAZ-D1-1-NA-L-SP	Eaton
5	1	25A, SPST Circuit Breaker	FAZ-D25-1-NA-L-SP	Eaton
6	9	Terminal Block (3-TB1, 3-TB2, 3-TB3)	XBUT4	Eaton
7	1	Terminal Block, Jumper 50 Pos	XBAFBS506	Eaton
8	3	Fused Terminal Block, 24 VDC LED	XBUT4FBEL24	Eaton
9	1	5x20mm Fuse, 0.5A Fast Acting	CGM1/2	Merson
10	1	Panel Power Supply 20 Amp Output	2910105	Phoenix Contact
11	1	UPS Power Supply, 10A, 24VDC In-Out	2320267	Phoenix Contact
12	4	3 Tier Terminal Block with ground	XB3UKF25PE	Eaton
13	2	3 Tier Terminal Jumpers	XBAEB10DIKR	Eaton
14	11	Terminal Block End Clamp	XBAES35C	Eaton
15	1	Backpanel	SCE-24P24	Saginaw Control
16	AR	1" Width X 4" Height Wire Duct for AC		
17	AR	1" Width X 4" Height Wire Duct for DC		
18	AR	Slotted Din Rail, Top Hat Style, 35mm x 7.5mm	DKN3575ST-2	Machine Pro Products
19	6	Ground Terminal Block	XBUT4PE	Eaton
20				
21				
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JONES AND HENRY ENGINEERING

NEW WATER TREATMENT PLANT

NASHVILLE, OHIO

WEST STATION REMOTE I/O
INTERNAL PANEL LAYOUT



11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7365

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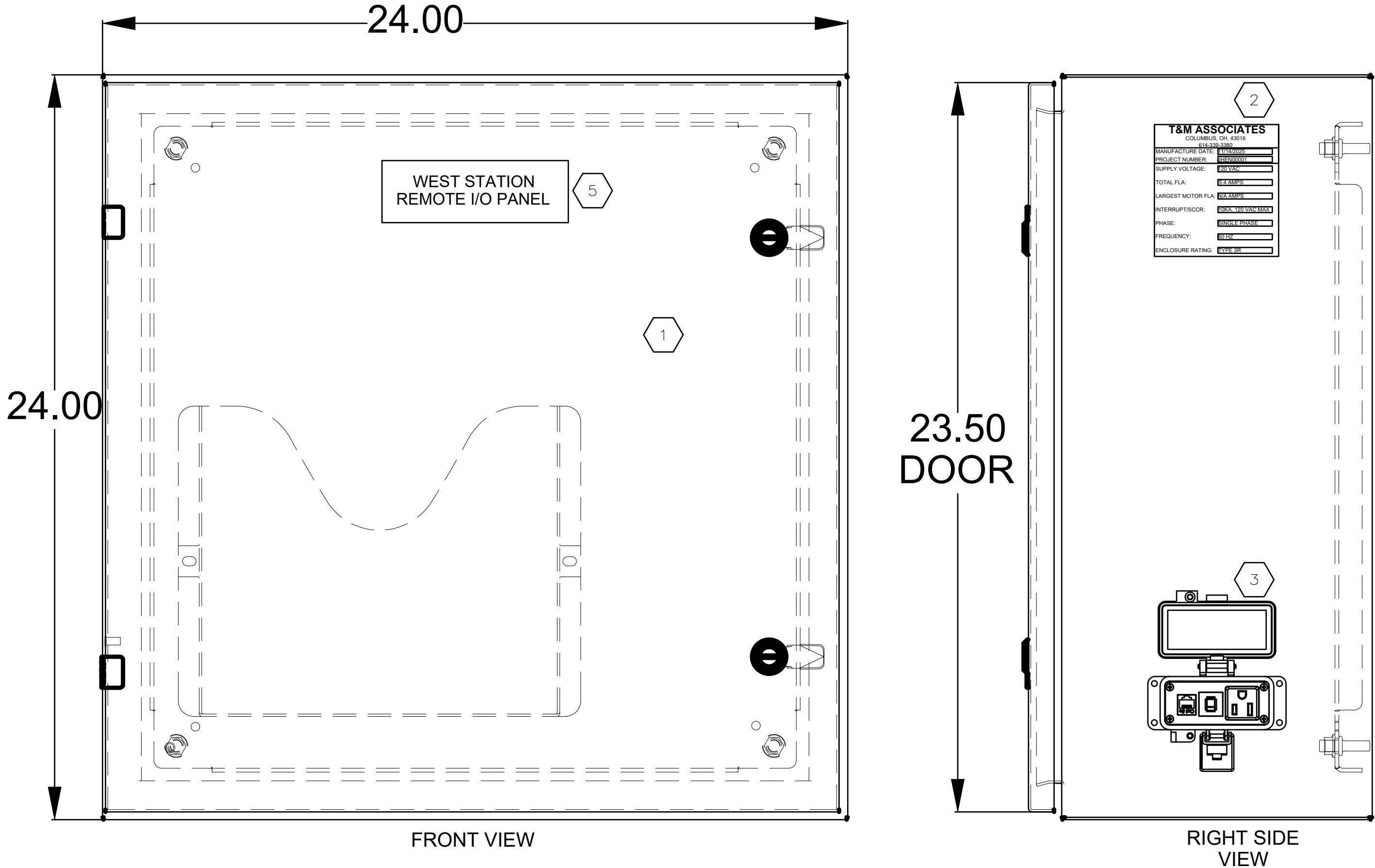
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CHECKED BY TLL	SHEET 31 OF 35
DRAWN BY SYC	
DATE 10/02/2025	
SCALE 1:3	
PROJ. NO. JHEN00001	

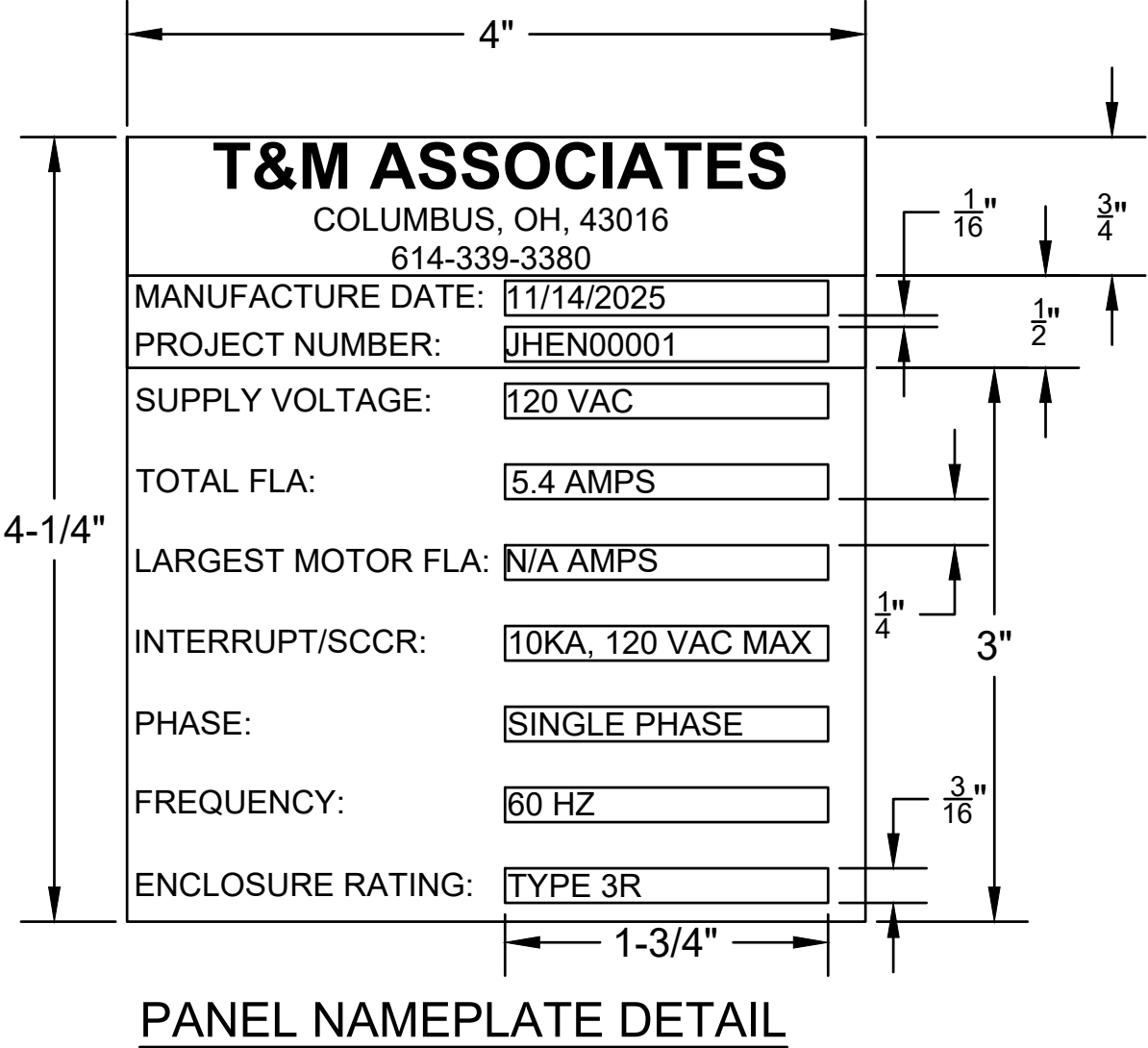
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 2. "T&M ASSOCIATES" SHALL BE $\frac{1}{4}$ " FONT SIZE. REST SHALL BE $\frac{1}{8}$ " FONT SIZE.
 3. NAMEPLATE SHALL BE BLUE LETTERING ON WHITE BACKGROUND.



NEW WATER TREATMENT PLANT WEST STATION REMOTE PANEL EXTERIOR BOM				
Item #	Quantity	Description	Part Number	Manufacturer
1	1	Panel Enclosure	SCE-24EL2410LP	Saginaw Control
2	1	Panel Custom Namplate		
3	1	Panel Power Outlet and Programming Port	P-R2-F3R3-U450	Saginaw Control
4	1	Ewon 4G Antenna w/Cable and Mounting Bracket (Shipped Loose)	FAC91201_0000	HMS-Networks
5	1	6" X 2" Phenolic Nameplate. Black with White Lettering, 3/8" Arial Font, "WEST STATION REMOTE I/O PANEL"		

*UL508A PANEL

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SEAN GAMBILL, P.E.
PROFESSIONAL ENGINEER



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LICENSED PROFESSIONAL ENGINEER
STATE OF OH P.E.90107 LICENSE No.

JONES AND HENRY ENGINEERING

NEW WATER TREATMENT PLANT

NASHVILLE, OHIO

CABLE SCHEDULE 1



11 TINDALL ROAD
MIDDLETOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7365

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*UL508A PANEL

PROJECT INFORMATION:
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FILE NAME: E-1 CABLE SCHEDULE.DWG
LAST SAVED DATE AND TIME: 26 Nov 2025, 12:00PM
LAST SAVE BY: Sgambilli

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SEAN GAMBILL, P.E.
PROFESSIONAL ENGINEER



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STATE OF OH P.E.90107LICENSE No.

JONES AND HENRY ENGINEERING
NEW WATER TREATMENT PLANT
ASHVILLE, OHIO
CABLE SCHEDULE 2



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MIDDELTOWN, NJ 07748
TEL 732-671-6400
FAX 732-671-7365

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DATE	10/02/2025		
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PROJ. NO.	JHEN000001	OF 35	

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Asheville New Water Treatment Plant Wire/ Cable Schedule			
Wellfield Remote I/O Panel			
Wire/ Cable. No	Cable Description	To/From	Conduit Type
3028, 5010	14 AWG, 1 pair, stranded (19x29) tinned copper conductors, twisted pair, 300V, PVC insulated, unshielded PVC jacket, Belden #93140601000 or Approved Equal	Wellfield Remote I/O Panel to Well Pump 5 In Auto Contact	1" RGS Conduit
3028, 5012	14 AWG, 1 pair, stranded (19x29) tinned copper conductors, twisted pair, 300V, PVC insulated, unshielded PVC jacket, Belden #93140601000 or Approved Equal	Wellfield Remote I/O Panel to Well Pump 5 Fault Contact	1" RGS Conduit
3028, 5014	14 AWG, 1 pair, stranded (19x29) tinned copper conductors, twisted pair, 300V, PVC insulated, unshielded PVC jacket, Belden #93140601000 or Approved Equal	Wellfield Remote I/O Panel to Well Pump 5 Running Contact	3/4" RGS Conduit
3028, 5016	14 AWG, 1 pair, stranded (19x29) tinned copper conductors, twisted pair, 300V, PVC insulated, unshielded PVC jacket, Belden #93140601000 or Approved Equal	Wellfield Remote I/O Panel to Well Ats In Normal Position Contact	3/4" RGS Conduit
3028, 5018	14 AWG, 1 pair, stranded (19x29) tinned copper conductors, twisted pair, 300V, PVC insulated, unshielded PVC jacket, Belden #93140601000 or Approved Equal	Wellfield Remote I/O Panel to Wellfield Ats In Emergency Position Contact	3/4" RGS Conduit
3028, 5020	14 AWG, 1 pair, stranded (19x29) tinned copper conductors, twisted pair, 300V, PVC insulated, unshielded PVC jacket, Belden #93140601000 or Approved Equal	Wellfield Remote I/O Panel to Wellfield Ats Fault Status Contact	3/4" RGS Conduit
3028, 5028	14 AWG, 1 pair, stranded (19x29) tinned copper conductors, twisted pair, 300V, PVC insulated, unshielded PVC jacket, Belden #93140601000 or Approved Equal	Wellfield Remote I/O Panel to Wellfield Ats Loss Of Utility Voltage Contact	3/4" RGS Conduit
3028, 5030	14 AWG, 1 pair, stranded (19x29) tinned copper conductors, twisted pair, 300V, PVC insulated, unshielded PVC jacket, Belden #93140601000 or Approved Equal	Wellfield Remote I/O Panel to Well Pump 6 In Auto Contact	1" RGS Conduit
3028, 5032	14 AWG, 1 pair, stranded (19x29) tinned copper conductors, twisted pair, 300V, PVC insulated, unshielded PVC jacket, Belden #93140601000 or Approved Equal	Wellfield Remote I/O Panel to Well Pump 6 Fault Contact	1" RGS Conduit
3028, 5034	14 AWG, 1 pair, stranded (19x29) tinned copper conductors, twisted pair, 300V, PVC insulated, unshielded PVC jacket, Belden #93140601000 or Approved Equal	Wellfield Remote I/O Panel to Well Pump 6 Running Contact	3/4" RGS Conduit
4004, 2007C	14 AWG, 1 pair, stranded (19x29) tinned copper conductors, twisted pair, 300V, PVC insulated, unshielded PVC jacket, Belden #93140601000 or Approved Equal	Wellfield Remote I/O Panel to Well Pump 5 Start/Stop Motor Contact	3/4" RGS Conduit
4008, 2007C	14 AWG, 1 pair, stranded (19x29) tinned copper conductors, twisted pair, 300V, PVC insulated, unshielded PVC jacket, Belden #93140601000 or Approved Equal	Wellfield Remote I/O Panel to Well Pump 6 Start/Stop Motor Contact	3/4" RGS Conduit
7002	3 conductor, 18 AWG stranded (16x30) tinned copper conductors, semi-rigid PVC insulation, overall foil shield, 20 AWG stranded tinned copper drain wire, PVC jacket, General Cable # C0455A or Approved Equal	Wellfield Remote I/O Panel to Wellfield #5 Level Transmitter	3/4" RGS Conduit
7008	3 conductor, 18 AWG stranded (16x30) tinned copper conductors, semi-rigid PVC insulation, overall foil shield, 20 AWG stranded tinned copper drain wire, PVC jacket, General Cable # C0455A or Approved Equal	Wellfield Remote I/O Panel to Wellfield #6 Level Transmitter	3/4" RGS Conduit
SR752 Tower Remote I/O Panel			
Wire/ Cable. No	Cable Description	To/From	Conduit Type
7002	3 conductor, 18 AWG stranded (16x30) tinned copper conductors, semi-rigid PVC insulation, overall foil shield, 20 AWG stranded tinned copper drain wire, PVC jacket, General Cable # C0455A or Approved Equal	SR 752 Tower Remote I/O Panel to Sr752 Tank Level Transmitter	3/4" RGS Conduit
West Station Remote I/O Panel			
Wire/ Cable. No	Cable Description	To/From	Conduit Type
7002	3 conductor, 18 AWG stranded (16x30) tinned copper conductors, semi-rigid PVC insulation, overall foil shield, 20 AWG stranded tinned copper drain wire, PVC jacket, General Cable # C0455A or Approved Equal	West Station Remote I/O Panel to West Tank Station Level Transmitter	3/4" RGS Conduit

Asheville New Water Treatment Plant Wire/ Cable Schedule			
120/240VAC			
Wire/ Cable. No	Cable Description	To/From	Conduit Type
L, N	Stranded, 2-#12 AWG, 1-#12 GND, 600V	Lighting Panel Ckt. # XX to Main Control Panel	3/4" RGS Conduit
L, N	Stranded, 2-#12 AWG, 1-#12 GND, 600V	Lighting Panel Ckt. # XX to Wellfield Remote Panel	3/4" RGS Conduit
L, N	Stranded, 2-#12 AWG, 1-#12 GND, 600V	Lighting Panel Ckt. # XX to SR752 Tank Remote Panel	3/4" RGS Conduit
L, N	Stranded, 2-#12 AWG, 1-#12 GND, 600V	Lighting Panel Ckt. # XX to West Station Tank Remote Panel	3/4" RGS Conduit

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SEAN GAMBILL, P.E.
PROFESSIONAL ENGINEER



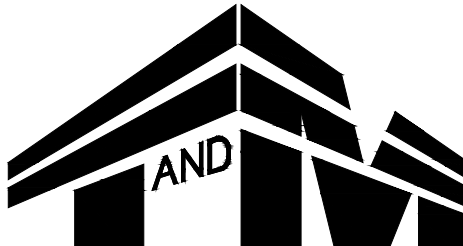
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JONES AND HENRY ENGINEERING

NEW WATER TREATMENT PLANT

ASHVILLE OHIO

CABLE SCHEDULE 3



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11 TINDALL ROAD
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CHECKED BY TLL	SHEET 35 OF 35
DRAWN BY SYC	
DATE 10/02/2025	
SCALE NTS	
PROJ. NO. JHEN00001	

*UL508A PANEL



Commercial • Residential

Philip E. Salyers, President

**4520 Alum Creek Drive
Columbus, OH 43207**

**Cell: (614) 517-3698
Office: 614-895-3000**

November 19, 2025

Ashville Water Department
140 Park Street
Ashville, OH 43103

After complete inspection of this property, I propose the following for your Security, CCTV and Access Control needs:

Security:

- 1 – DSC Neo Master Control Unit
- 5 - Alpha Display Keypads
- 2 – Single Man Door Contacts
- 3 – Double Man Door Contacts
- 3 – Overhead Door Contacts
- 5 – 360 Degree Motion Detectors
- 1 – Alarm.com Cellular Communication Module
- 2 – Power Supplies with Backup Batteries
- 1 – 8 Point Zone Expander
- Lot – All Necessary Labor, Wire, and Hardware Included

Security Total: \$9,200.00 plus \$55.00 per month

CCTV:

- 1 – 32 Channel 24TB NVR
- 1 – HD Monitor
- 4 – Indoor 8MP Ultra HD IP Cameras with IR and Mounts
- 10 – Outdoor 8MP Ultra HD IP Cameras with IR and Mounts
- 1 – 24 Port POE Switch
- Lot – All Necessary Labor, Wire, and Hardware Included

CCTV Total: \$19,500.00 plus \$20.00 per month

Access Control

- 1 – Alarm.com Two Door Master Controller
- 3 – Alarm.com Two Door Expanders
- 8 – Alarm.com Prox Readers
- 5 – Connect to Customer Supplied Electronic Door Hardware
- 3 – Connect to Vehicle Gate Controllers
- 3 – Gooseneck Enclosure Housings
- 3 – Alarm.com Intercom Units
- 2 – Power Supplies with Backup Batteries
- Lot – All Necessary Labor, wire and hardware included

Access Control Total: \$28,500 plus \$40.00 per month

The above investment includes all parts and labor with a one year warranty on both. Customer will need to supply any necessary 120v outlets. The 24/7 monitoring for security, including web and phone app for CCTV and Access Control will be \$115.00 per month, plus tax. The If you have any questions, please give me a call at 614-517-3698.

Sincerely,

Philip E. Salyers
President

**SECTION 01021
ALLOWANCES**

PART 1 GENERAL

1.01 SCOPE

- A. This Section includes the allowances which are to be furnished by the Contractor per Paragraph GC-13.02 of the General Conditions.
- B. The Contractor shall include in the Contract Price all allowances stated in the Contract Documents. These allowances shall cover the net cost of the materials and equipment delivered and unloaded at the Site, and all applicable taxes.
- C. The Contractor's handling costs on the Site, labor installation costs, overhead, profit and other expenses contemplated for the original allowance shall be included in the Contract Price and not in the allowance.
- D. The Contractor shall cause the Work covered by these allowances to be performed for such amounts and by such persons as the Engineer may direct, but he will not be required to employ persons against whom he makes a reasonable objection.
- E. If the cost, when determined, is more than or less than the allowance, the Contract Price shall be adjusted accordingly by Change Order.

1.02 SUBMITTALS

- A. Submittals shall be in accordance with the requirements of Section 01300 and shall include:
 - 1. Shop Drawings for Review:
 - a. Contractor shall prepare and submit proposals for the Owner to select the items included in allowance.
 - 2. Information for the Record:
 - a. Operation and maintenance manuals as may be required for items included in allowance.
 - b. Invoices and delivery slips, for items provided under the allowance, shall be submitted to the resident project representative or Engineer.

1.03 PRODUCT HANDLING

- A. The Contractor shall provide all labor, material and equipment to insure the safe delivery, handling and storage of goods until acceptance by Owner and Engineer.

1.04 GUARANTEE

- A. Contractor shall provide manufacturer's warranties to the Owner for all goods provided.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.01 COORDINATION

- A. Contractor shall advise Owner and Engineer of, and include in the schedule, the timing of the selection, Shop Drawing review and procurement of the goods or services required in the allowance.
- B. Contractor shall be responsible for the coordination, of all allowance item(s) provided, with the remainder of the contract work.

3.02 ERECTION, INSTALLATION AND APPLICATION

- A. Contractor shall assemble, install or apply all goods as may be required to complete the requirements of the allowance.

3.03 PROTECTION

- A. Contractor shall examine all goods on delivery. All damaged or defective goods shall be returned to the manufacturer for replacement.

PART 4 SPECIAL PROVISIONS

4.01 LIST OF ALLOWANCES

		Allowance
A.	Utility Installation:	\$50,000.00
1.	Gas service installation and connection	
2.	Internet service installation and connection	
3.	Electrical service installation and connection	

B.	Programming, Integration, Panels, Hardware	\$225,000.00
C.	Cameras, Security Access	\$ 65,000.00
D.	Contingency	\$500,000.00

(Addendum 2, Issued 12/12/2025)

4.02 DEFINITION OF ALLOWANCE

- A. Utility installation shall be in accordance with the specification, as shown on the Drawings and as directed.

- B. Programming, Integration, Panels, Hardware includes the purchasing of control panels, hardware, cellular communication panels/hardware **(Addendum 2, Issued 12/12/2025)** and software not provided by individual vendors. Programming and system integration includes a new PLC and HMI. Cellular communications hardware includes the equipment necessary for the cellular communications at the (2) elevated tanks, new water treatment plant and wellfield. Installation to be provided by the Contractor. Delineation of work between the Contractor and supplier is shown on the Drawings and T&M Scope of Work provided in Addendum #2. **(Addendum 2, Issued 12/12/2025)** This work is being provided by T&M Associates. Invoices for T&M Associates will be provided to the Contractor.
- C. Cameras and Security Access includes the supply and installation of security cameras and door access controls. Delineation of work between the contractor and supplier is shown on the Drawings. This equipment is being provided by StarTec Security. Invoices for StarTec Security will be provided to the Contractor.
- D. The General Contingency Allowance is for the Owner directed changes, as approved by the Owner and Engineer. **(Addendum 2, Issued 12/12/2025)**

END OF SECTION

VALVE SCHEDULE							
TAG/ID	SIZE	TYPE	CONNECTION	OPERATOR	USE	SERVICE	VENDOR FURNISHED
1-WTP							
BPV-1-01	8"	BFV	FL	M	RW	M	SECTION 11020
BPV-1-02	8"	BFV	FL	M	RW	M	SECTION 11020
BPV-1-03	8"	BFV	FL	C	AW	O-C	SECTION 11020
BPV-1-04	8"	BFV	FL	M	AW	O-C	SECTION 11020
BPV-1-05	8"	BFV	FL	M	AW	O-C	SECTION 11020
BPV-1-06	4"	BFV	FL	M	FLU	O-C	SECTION 11020
BPV-1-07	4"	BFV	FL	M	FLU	O-C	SECTION 11020
BPV-1-08	4"	BFV	FL	M	FLU	O-C	SECTION 11020
BPV-1-09	4"	BFV	FL	M	FLU	O-C	SECTION 11020
BPV-1-10	4"	BFV	FL	M	FLU	O-C	SECTION 11020
BPV-1-11	4"	BFV	FL	M	FLU	O-C	SECTION 11020
BPV-1-12	4"	BFV	FL	M	FLU	O-C	SECTION 11020
BPV-1-13	4"	BFV	FL	M	FLU	O-C	SECTION 11020
BPV-1-14	6"	BFV	FL	M	WW	O-C	SECTION 11020
BPV-1-15	6"	BFV	FL	M	WW	O-C	SECTION 11020
BPV-1-16	6"	BFV	FL	M	WW	O-C	SECTION 11020
BPV-1-17	6"	BFV	FL	M	WW	O-C	SECTION 11020
BPV-1-18	6"	BFV	FL	M	WW	O-C	SECTION 11020
BPV-1-19	6"	BFV	FL	M	WW	O-C	SECTION 11020
BPV-1-20	6"	BFV	FL	M	WW	O-C	SECTION 11020
BPV-1-21	6"	BFV	FL	M	WW	O-C	SECTION 11020
BPV-1-22	6"	BFV	FL	M	WW	O-C	SECTION 11020
BPV-1-23	6"	BFV	FL	M	WW	O-C	SECTION 11020
BPV-1-32	6"	BFV	FL	M	FTW	O-C	SECTION 11020
BPV-1-33	6"	BFV	FL	M	FTW	O-C	SECTION 11020
BPV-1-34	8"	BFV	FL	M	FLE	O-C	
BPV-1-35	8"	BFV	FL	M	FLE	O-C	
BPV-1-36	8"	BFV	FL	HW	FLE	O-C	
BPV-1-37	8"	BFV	FL	HW	FLE	O-C	
BPV-1-38	8"	BFV	FL	C	FLE	O-C	
BPV-1-39	8"	BFV	FL	C	FLE	O-C	
BPV-1-40	6"	BFV	FL	L	FLE	O-C	SECTION 11030
BPV-1-41	6"	BFV	FL	L	FLE	O-C	SECTION 11030
BPV-1-42	6"	BFV	FL	L	FLE	O-C	SECTION 11030
BPV-1-43	6"	BFV	FL	M	SFI	O-C	SECTION 11030
BPV-1-44	6"	BFV	FL	M	SFI	O-C	SECTION 11030
BPV-1-45	6"	BFV	FL	M	SFI	O-C	SECTION 11030
BPV-1-46	6"	BFV	FL	M	BS	O-C	SECTION 11030
BPV-1-47	6"	BFV	FL	M	BS	O-C	SECTION 11030
BPV-1-48	6"	BFV	FL	M	BS	O-C	SECTION 11030
BPV-1-49	4"	BFV	FL	M	WW	O-C	SECTION 11030
BPV-1-50	4"	BFV	FL	M	WW	O-C	SECTION 11030
BPV-1-51	4"	BFV	FL	M	WW	O-C	SECTION 11030
BPV-1-52	4"	BFV	FL	M	R	O-C	SECTION 11030
BPV-1-53	4"	BFV	FL	M	R	O-C	SECTION 11030
BPV-1-54	4"	BFV	FL	M	R	O-C	SECTION 11030
BPV-1-55	6"	BFV	FL	M	SFE	O-C	SECTION 11030
BPV-1-56	6"	BFV	FL	M	SFE	O-C	SECTION 11030
BPV-1-57	6"	BFV	FL	M	SFE	O-C	SECTION 11030
BPV-1-58	6"	BFV	FL	C	FLE	O-C	
BPV-1-59	6"	BFV	FL	M	FLE	M	SECTION 11030
BPV-1-60	6"	BFV	FL	L	FLE	O-C	
BPV-1-64	8"	BFV	FL	HW	FW	O-C	
BPV-1-65	8"	BFV	FL	HW	FW	O-C	
BPV-1-66	8"	BFV	FL	C	FW	O-C	
BPV-1-67	8"	BFV	FL	C	FW	O-C	
BPV-1-68	4"	BFV	FL	C	FW	O-C	
BPV-1-69	4"	BFV	FL	L	FW	O-C	
BPV-1-70	6"	BFV	FL	C	FW	O-C	
BPV-1-71	4"	BFV	FL	C	BS	O-C	
BPV-1-72	8"	BFV	FL	C	AW	O-C	
CV-1-01	8"	CV	FL	N/A	FLE	N/A	
CV-1-02	8"	CV	FL	N/A	FLE	N/A	
CV-1-03	8"	CV	FL	N/A	FW	N/A	
CV-1-04	8"	CV	FL	N/A	FW	N/A	
GV-1-05	12"	GV	MJ	VB	RW	O-C	
CLEARWELL							
GV-2-01	12"	GV	MJ	VB	RW	O-C	
GV-2-02	12"	GV	MJ	VB	RW	O-C	
GV-2-03	12"	GV	MJ	VB	FW	O-C	
GV-2-04	12"	GV	MJ	VB	FW	O-C	
PV-2-01	4"	PV	MJ	VB	TD	O-C	
PV-2-02	4"	PV	MJ	VB	TD	O-C	

VALVE SCHEDULE NOTES:
1. 4" AND LARGER VALVES SCHEDULED ONLY. VALVES SMALLER THAN 4" NOT SCHEDULED.
2. SEE G-0.2 FOR STANDARD AND PIPING ABBREVIATIONS.

OPERATOR DESIGNATION

C - CHAIN
FB - FLOOR BOX
FS - FLOOR STAND
G - GEAR
HW - HANDWHEEL
L - LEVER
MO - MOTOR OPERATED
RHW - RIGHT ANGLE HANDWHEEL
TW - TEE WRENCH
VB - VALVE BOX

SERVICE DESIGNATION

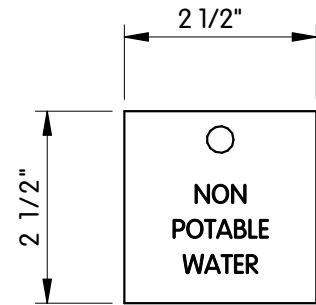
M - MODULATION
O-C - OPEN CLOSE

PIPE SYSTEM SCHEDULE	
SYSTEM NAME	ABBREVIATION
AERATED WATER	AW
AIR	A
BACKWASH SUPPLY	BS
BLENDED WATER	BLD
CAUSTIC SODA	CAS
COMPRESSED AIR	CA
CONDENSATE DRAIN	CON
DOMESTIC COLD WATER	DCW
DOMESTIC HOT WATER	DHW
DOMESTIC TEMPERED WATER	DTW
DOMESTIC WASTE	SA
EQUIPMENT DRAIN	ED
FILTER EFFLUENT	FLE
FILTER INFLUENT	FLU
FILTER TO WASTE	FTW
FINISHED WATER	FW
HOT WATER RETURN	HWR
NATURAL GAS	NG
NON-POTABLE WATER	NPW
RAW WATER	RW
REFRIGERANT	REF
RINSE WATER	R
SANITARY VENT	V
SODIUM HYPOCHLORITE	SDH
SOFTENER EFFLUENT	SFE
SOFTENER INFLUENT	SFI
TANK DRAIN	TD
WASTE WASH-WATER	WW
WATER	W

SIGN TAG DESCRIPTION

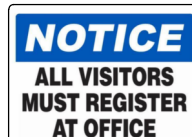
- C LOCATED AT ALL EMERGENCY SHOWER/EYEWASH STATIONS
- E LOCATED AT ALL FIRE EXTINGUISHERS
- F 4 REQUIRED (PERIMETER FENCE)
- G LOCATED AT MAIN GATE
- J LOCATED AT MAIN TRANSFORMER AND AT GENERATOR
- Q LOCATED AT GENERATOR
- M LOCATED AT SODIUM HYPOCHLORITE DOORS, 2 REQUIRED
- R LOCATED AT SODIUM HYDROXIDE DOORS, 2 REQUIRED

TAG DETAIL - NON POTABLE WATER

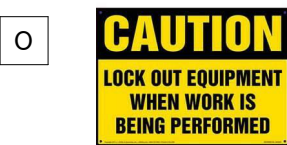


LOCATED AT ALL HOSE BIBS AND
HYDRANTS INSIDE AND OUTSIDE
OF STRUCTURES

PIPE TYPE SCHEDULE (WTP)						
ABBREVIATION	SERVICE	PIPE MATERIAL	CLASS/THICKNESS	JOINTS	FITTINGS	NOTES
SAN	SANITARY	PVC	SDR 35	BELL JOINT & GASKET	DI RMJ AWWA C153	
ST	STORM WATER	HDPE	ADS - N12	BELL JOINT & GASKET	SDR 35 PVC OR DI RMJ AWWA C153 W/ TRANSITION GASKETS	ROOF DRAINS SCH. 40 PVC
RW, FLI, FLE, FW, BW, WW	PROCESS PIPE (ABOVE GRADE)	DIP	350	FL	DI FL AWWA C115	
RW, BLD, FW, BW, WW	PROCESS PIPE (BURIED)	DIP	350	MJ	DI RMJ AWWA C153	BURIED WITHIN 5' OF STRUCTURES, ALL AW
A	AIRWASH SUPPLY	PVC	SCH. 80	SOLVENT WELD, ASTM D2855	SCH. 80 PVC	JOINTS FOLLOW SPEC SECTION 15211
R, WW	SOFTENER WASTE	PVC	SCH. 80	SOLVENT WELD, ASTM D2855	SCH. 80 PVC	JOINTS FOLLOW SPEC SECTION 15211



SIGNS



* NOT ALL SIGNS USED

PIPING & EQUIPMENT
SCHEDULES AND DETAILS

VILLAGE OF ASHVILLE, OHIO
NEW WATER TREATMENT PLANT

Jones & Henry
Engineers, Ltd.



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JOB NO.: 1000-8177.002

SCALE: AS INDICATED

THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED JDM DRAWN RLR CHECKED JDM

STATUS: ISSUED FOR BID

DATE: 11/18/25

SHEET NO.

PE-0.1

57 OF 129

C:\M-8177\02\NOI-43 M-0.5 MECHANICAL SCHEDULES
12/4/2025 9:00 AM - LBROWN
12/4/2025 11:08 AM

SPLIT SYSTEM FAN COIL UNIT/CONDENSING UNIT SCHEDULE																								
TAG	LOCATION	TYPE	SUPPLY AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	SUPPLY FAN			HEATING INPUT CAPACITY	HEATING OUTPUT CAPACITY	COOLING CAPACITY		AHU					FILTER		CU					NOTES
					E.S.P. (IN. W.C.)	HP	BLOWER TYPE			TOTAL (BTUH)	SENSIBLE (BTUH)	MAKE	MODEL	V/PH/HZ	MCA	MFS	TYPE	MERV	MAKE	MODEL	V/PH/HZ	MCA	MFS	
FC-1/HP-1	ADMINISTRATION WING	GAS FIRED FURNACE SPLIT SYSTEM/DX COIL	1,200	200	0.85	1/2	CENTRIFUGAL	40 MBH	39 MBH	36,000	-	TRANE	5TXCB004AS3HCA + S9X2B040U3PSBA	120/1/60	8.80	15.0	2" PLEATED	8	TRANE	5TWR4036A1000A	208/3/60	19.0	30.0	1,2,3,4,5,6,7,8,9
FC-2/HP-2	ELECTRICAL ROOM	SPLIT SYSTEM/DX COIL	2,400	200	0.80	3	CENTRIFUGAL	-	5 KW	95.96	66.54	TRANE	BCHE-072	480/3/60	14.40	15.0	2" PLEATED	8	TRANE	TWA072K4D	480/3/60	17.0	20.0	1,2,3,4,5,6,7,8,9,10,11
FC-3/HP-3	CHEMICAL FEED ROOM	SPLIT SYSTEM/DX COIL	800	80	0.45	1	CENTRIFUGAL	-	5 KW	31,230	20,150	TRANE	BCHE-024	480/3/60	10.65	15.0	2" PLEATED	8	TRANE	5TWR4024A1000A	208/1/60	13.0	20.0	1,2,3,4,5,6,7,8,9
NOTES:																								
1. INSTALL PER MANUFACTURERS INSTRUCTIONS. 2. PROVIDE AIR HANDLING UNIT WITH SPRING VIBRATION ISOLATORS FOR HORIZONTAL INSTALLATION. 3. PROVIDE EVAPORATOR COIL WITH REMOVABLE COMPOSITE DRAIN PAN. 4. EVAPORATOR COIL ENTERING AIR DRY BULB/WET BULB TEMPERATURES: 80/67 DEGREES F. 5. HEAT PUMP CONDENSER UNIT ENTERING AIR DRY BULB TEMPERATURE: 95 DEGREES F. 6. PROVIDE PRE-CHARGED LINE SETS FOR INSTALLTION OF REFRIGERANT PIPING, REFRIGERNT R-454B. 7. PROVIDE 24 VOLT TWO STAGE HEATING, TWO STAGE COOLING THERMOSTAT WITH AUTOMATIC CHANGEOVER. 8. PROVIDE HEAT PUMP CONDENSER UNIT WITH LOW AMBIENT CONTROL FOR COOLING OPERATION TO OUTDOOR AMBIENT OF 0 DEGREES F. 9. HARD WIRED REMOTE CONTROLLER WITH MODE, FAN SPEED, AND TEMPERATURE SELECTION. 10. ECONOMIZER CONTROL. 11. MIXING BOX																								

GAS FIRED UNIT HEATER SCHEDULE													
TAG	LOCATION	TYPE	AIRFLOW DISCHARGE	HEATING SECTION		AIRFLOW (CFM)	TEMPERATURE RISE (°F)	THROW (FT.)	ELECTRICAL		MAKE	MODEL	NOTES
				INPUT (BTUH)	OUTPUT (BTUH)				HP	V/PH/HZ			
GUH-1	PROCESS ROOM	PROPELLER FAN	HORIZONTAL	30,000	24,600	456	50	26	0.02	120/1/60	REZNOR	UDXC-030	1,2,3,4
GUH-2	PROCESS ROOM	PROPELLER FAN	HORIZONTAL	30,000	24,600	456	50	26	0.02	120/1/60	REZNOR	UDXC-030	1,2,3,4
GUH-3	PROCESS ROOM	PROPELLER FAN	HORIZONTAL	30,000	24,600	456	50	26	0.02	120/1/60	REZNOR	UDXC-030	1,2,3,4
GUH-4	PROCESS ROOM	PROPELLER FAN	HORIZONTAL	30,000	24,600	456	50	26	0.02	120/1/60	REZNOR	UDXC-030	1,2,3,4
GUH-5	PROCESS ROOM	PROPELLER FAN	HORIZONTAL	30,000	24,600	456	50	26	0.02	120/1/60	REZNOR	UDXC-030	1,2,3,4
GUH-6	PROCESS ROOM	PROPELLER FAN	HORIZONTAL	30,000	24,600	456	50	26	0.02	120/1/60	REZNOR	UDXC-030	1,2,3,4
GUH-7	MECHANICAL ROOM	PROPELLER FAN	HORIZONTAL	30,000	24,600	456	50	26	0.02	120/1/60	REZNOR	UDXC-030	1,2,3,4
NOTES:													
1. INSTALL PER MANUFACTURERS INSTRUCTIONS. 2. UNITS SHALL BE UL LISTED. 3. UL LISTED, NEMA 1 RATED, DISCONNECT SWITCH. 4. 24 VOLT, SINGLE STAGE, WALL MOUNTED THERMOSTAT.													

FAN SCHEDULE										
TAG	LOCATION	TYPE	AIRFLOW (CFM)	E.S.P. (INCHES W.C.)	DRIVE	ELECTRICAL		MAKE	MODEL	NOTES
						HP	V/PH/HZ			
EF-1	PROCESS ROOM	WALL MOUNTED CENTRIFUGAL UPBLAST	6,300	0.75	BELT	2	480/3/60	LOREN COOK	ACW-B 225W9B	1,2,3,4,5,6,7,8,9
EF-2	MECHANICAL ROOM	WALL MOUNTED CENTRIFUGAL UPBLAST	400	0.25	BELT	1/3	120/1/60	LOREN COOK	ACW-B 100W OR80	1,2,3,4,5,6,7,8,9
EF-3	RESTROOM	CEILING	120	0.25	BELT	42 W	120/1/60	LOREN COOK	GC-148	1,2,3,4,10,11
DCF-1	PROCESS ROOM	DESTRATIFICATION FAN	-	-	DIRECT (VFD)	1	480/3/60	BIG ASS FANS	BASIC 6 - 8 FT DIAMETER	1,12,13,14,15
DCF-2	PROCESS ROOM	DESTRATIFICATION FAN	-	-	DIRECT (VFD)	1	480/3/60	BIG ASS FANS	BASIC 6 - 8 FT DIAMETER	1,12,13,14,15
DCF-3	PROCESS ROOM	DESTRATIFICATION FAN	-	-	DIRECT (VFD)	1	480/3/60	BIG ASS FANS	BASIC 6 - 8 FT DIAMETER	1,12,13,14,15
DCF-4	PROCESS ROOM	DESTRATIFICATION FAN	-	-	DIRECT (VFD)	1	480/3/60	BIG ASS FANS	BASIC 6 - 8 FT DIAMETER	1,12,13,14,15
DCF-5	PROCESS ROOM	DESTRATIFICATION FAN	-	-	DIRECT (VFD)	1	480/3/60	BIG ASS FANS	BASIC 6 - 8 FT DIAMETER	1,12,13,14,15
DCF-6	PROCESS ROOM	DESTRATIFICATION FAN	-	-	DIRECT (VFD)	1	480/3/60	BIG ASS FANS	BASIC 6 - 8 FT DIAMETER	1,12,13,14,15
NOTES:										
1. INSTALL PER MANUFACTURERS INSTRUCTIONS. 2. FINAL ROOF OR WALL OPENING SIZE TO MATCH APPROVED SUBMITTAL. 3. INTEGRAL PRE-WIRED, NEMA 3R RATED DISCONNECT SWITCH. 4. GRAVITY TYPE BACKDRAFT DAMPER. 5. VIBRATION ISOLATORS. 6. WEATHERPROOF MOTOR AND BELT GUARD COVER. 7. SPARE BELT SET. 8. ALUMINUM BIRDSCREEN. 9. STANDARD FINISH. 10. UNIT MOUNTED, INTEGRAL, PRE-WIRED, SOLID STATE SPEED CONTROLLER. 11. WALL CAP WITH DAMPER. 12. PROVIDE IP55 MOTOR AND LED. 13. PROVIDE SMARTSENSE CONTROLLER. 14. PROVIDE EXTENSION TUBE. 15. PROVIDE STAINLESS STEEL HARDWARE.										

CONTROL DAMPER SCHEDULE							
TAG	TYPE	BLADES	MATERIAL	DUCT TYPE	MAKE	MODEL	NOTES
BD	BALANCING	OPPOSED	ALUMINUM	RECTANGULAR	RUSKIN	CD51	1,2,3
MD	MOTORIZED	PARALLEL	ALUMINUM	RECTANGULAR	RUSKIN	CD51	1,2,4
BDD	BACKDRAFT	PARALLEL	ALUMINUM	RECTANGULAR	RUSKIN	BD2A2	1,2
RD	RELIEF	PARALLEL	GALVANIZED STEEL	RECTANGULAR	GREENHECK	BR-31	1,2
NOTES:							
1. INSTALL PER MANUFACTURERS INSTRUCTIONS. 2. SEE DRAWINGS FOR SIZES, AIRFLOW, AND QUANTITY. 4. PROVIDE WITH LOCKING QUADRANT. 5. PROVIDE 120/1/60 DAMPER MOTOR OPERATOR.							

AIR OUTLETS SCHEDULE									
TAG	SERVICE	TYPE	STATIC P.D. (IN. W.C.)	PATTERN	MATERIAL	FINISH	MAKE	MODEL	NOTES
SR	SUPPLY	REGISTER	0.08	DOUBLE DEFLECTION	ALUMINUM	CLEAR ANODIZED	TITUS	300FS	1,2,3,4
RG	RETURN	GRILLE	0.08	EGGCRATE	ALUMINUM	CLEAR ANODIZED	TITUS	50F	1,2,3,4
EG	EXHAUST	GRILLE	0.08	EGGCRATE	ALUMINUM	CLEAR ANODIZED	TITUS	50F	1,2,3,4
RG	RETURN	GRILLE	0.08	PERFORATED	ALUMINUM	WHITE	TITUS	PXP-AA	1,2,3,5
SD	SUPPLY	DIFFUSER	0.08	4-WAY	ALUMINUM	WHITE	TITUS	TMS-AA	1,2,3,5
NOTES:									
1. INSTALL PER MANUFACTURERS INSTRUCTIONS. 2. SEE DRAWING FOR SIZES, AIRFLOW, AND QUANTITY. 3. INTEGRAL BALANCING DAMPER. 4. DUCT MOUNTING. 5. LAY-IN T-BAR CEILING GRID MOUNTING.									

LOUVER SCHEDULE											
TAG	LOCATION	SERVICE	TYPE	MODULAR OPENING SIZE		DEPTH (IN.)	AIRFLOW (CFM)	FREE AREA (SQ. FT.)	MAKE	MODEL	NOTES
				WIDTH (INCHES)	HEIGHT (INCHES)						
IL-1	MECHANICAL ROOM	INTAKE	COMBINATION	36	54	6	3,150	6.60	RUSKIN	ELC6375DAX	1,2,3,4,5,6,7
IL-2	PROCESS ROOM	INTAKE	COMBINATION	36	54	6	3,150	6.60	RUSKIN	ELC6375DAX	1,2,3,4,5,6,7
IL-3	PROCESS ROOM	INTAKE	COMBINATION	16	24	6	400	0.87	RUSKIN	ELC6375DAX	1,2,3,4,5,6,7
IL-4	ELECTRICAL ROOM	INTAKE	STATIONARY	40	40	6	2,680	6.14	RUSKIN	ELF6375DXH	1,3,4,6
L-5	ELECTRICAL ROOM	RELIEF EXHAUST	COMBINATION	40	40	6	2,400	4.93	RUSKIN	ELC6375DAX	1,2,3,4,5,6,7
NOTES:											
1. INSTALL PER MANUFACTURERS INSTRUCTIONS.											
2. FRONT STATIONARY DRAINABLE BLADE WITH INTEGRAL BACKDRAFT DAMPER.											
3. 6063T6 EXTRUDED ALUMINUM CONSTRUCTION.											
4. BIRDSCREEN MOUNTED ON EXTERIOR.											
5. INSECT SCREEN MOUNTED ON INTERIOR.											
6. KYNAR OR FLUOROPOLYMER FINISH ON ENTIRE LOUVER AND BIRDSCREEN. COLOR TO BE SELECTED BY OWNER.											
7. TWO POSITION, SPRING RETURN, 120/1/60 BACKDRAFT DAMPER MOTOR ACTUATOR.											

MECHANICAL
SCHEDULES

VILLAGE OF ASHVILLE, OHIO
NEW WATER TREATMENT PLANT

JDM BY


NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ADENDUM 2

DATE 12/2/25

REVISIONS AFTER ISSUED FOR BID

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JOB NO. 1000-8177.002

SCALE AS INDICATED

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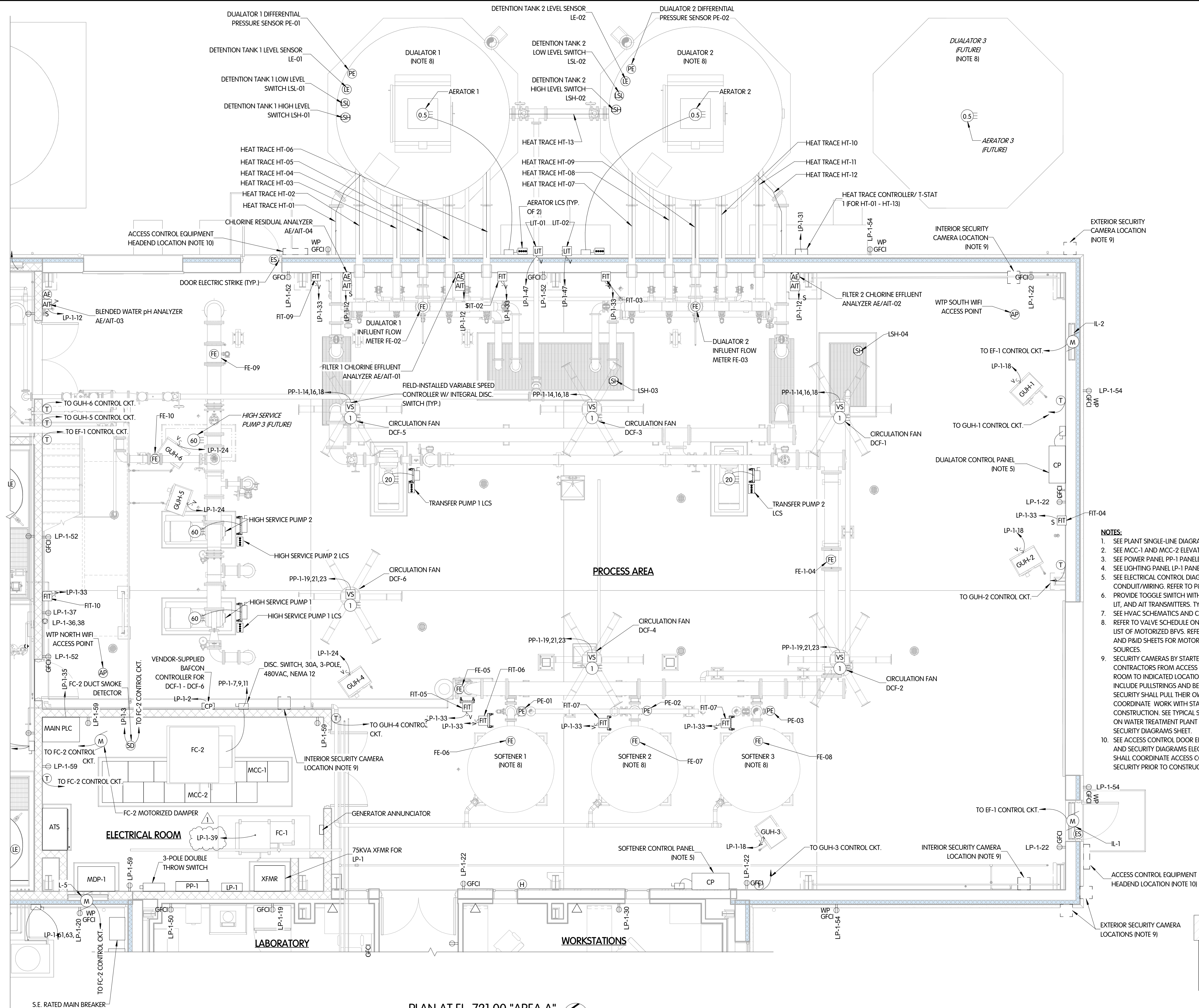
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DRAWN RLR
CHECKED JDM

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DATE 11/18/25

SHEET NO.
M-0.5
89 OF 129

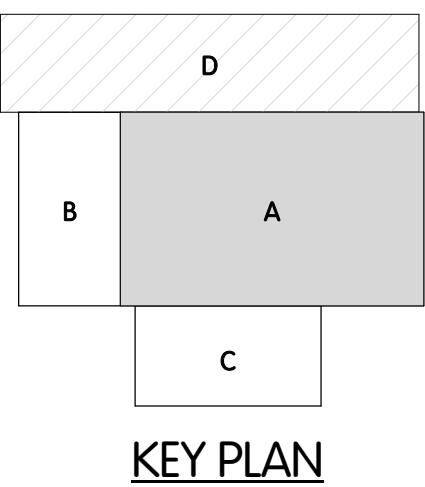
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PLAN AT EL. 721.00 "AREA A"
1/4" = 1'-0"



- NOTES:**
1. SEE PLANT SINGLE-LINE DIAGRAM.
 2. SEE MCC-1 AND MCC-2 ELEVATION DRAWINGS.
 3. SEE POWER PANEL PP-1 PANELBOARD SCHEDULE.
 4. SEE LIGHTING PANEL LP-1 PANELBOARD SCHEDULE.
 5. SEE ELECTRICAL CONTROL DIAGRAM SHEET FOR SIGNAL CONDUIT/WIRING. REFER TO P&IDS FOR I/O.
 6. PROVIDE TOGGLE SWITCH WITH LOCKING HASP. TYPICAL OF ALL FIT, LIT, AND AIT TRANSMITTERS. TYPICAL OF ALL GUH GAS UNIT HEATERS.
 7. SEE HVAC SCHEMATICS AND CONTROL DIAGRAMS.
 8. REFER TO VALVE SCHEDULE ON PIPING AND EQUIPMENT SHEET FOR LIST OF MOTORIZED BVVS. REFER TO PIPING AND EQUIPMENT SHEETS AND P&ID SHEETS FOR MOTORIZED BVV LOCATIONS AND POWER SOURCES.
 9. SECURITY CAMERAS BY STARTEC SECURITY. 3/4" C SHALL BE RUN BY CONTRACTORS FROM ACCESS CONTROL PANEL IN WORKSTATIONS ROOM TO INDICATED LOCATIONS 10'-0" AFF. CONDUITS SHALL INCLUDE PULLSTRINGS AND BE CAPPED FOR FUTURE USE. STARTEC SECURITY SHALL PULL THEIR OWN WIRES. THE CONTRACTOR SHALL COORDINATE WORK WITH STARTEC SECURITY PRIOR TO CONSTRUCTION. SEE TYPICAL SECURITY CAMERA CONTROL DIAGRAM ON WATER TREATMENT PLANT ELECTRICAL ACCESS CONTROL AND SECURITY DIAGRAMS SHEET.
 10. SEE ACCESS CONTROL DOOR ENLARGED DETAIL ON ACCESS CONTROL AND SECURITY DIAGRAMS ELECTRICAL SHEET. THE CONTRACTOR SHALL COORDINATE ACCESS CONTROL WORK WITH STARTEC SECURITY PRIOR TO CONSTRUCTION.



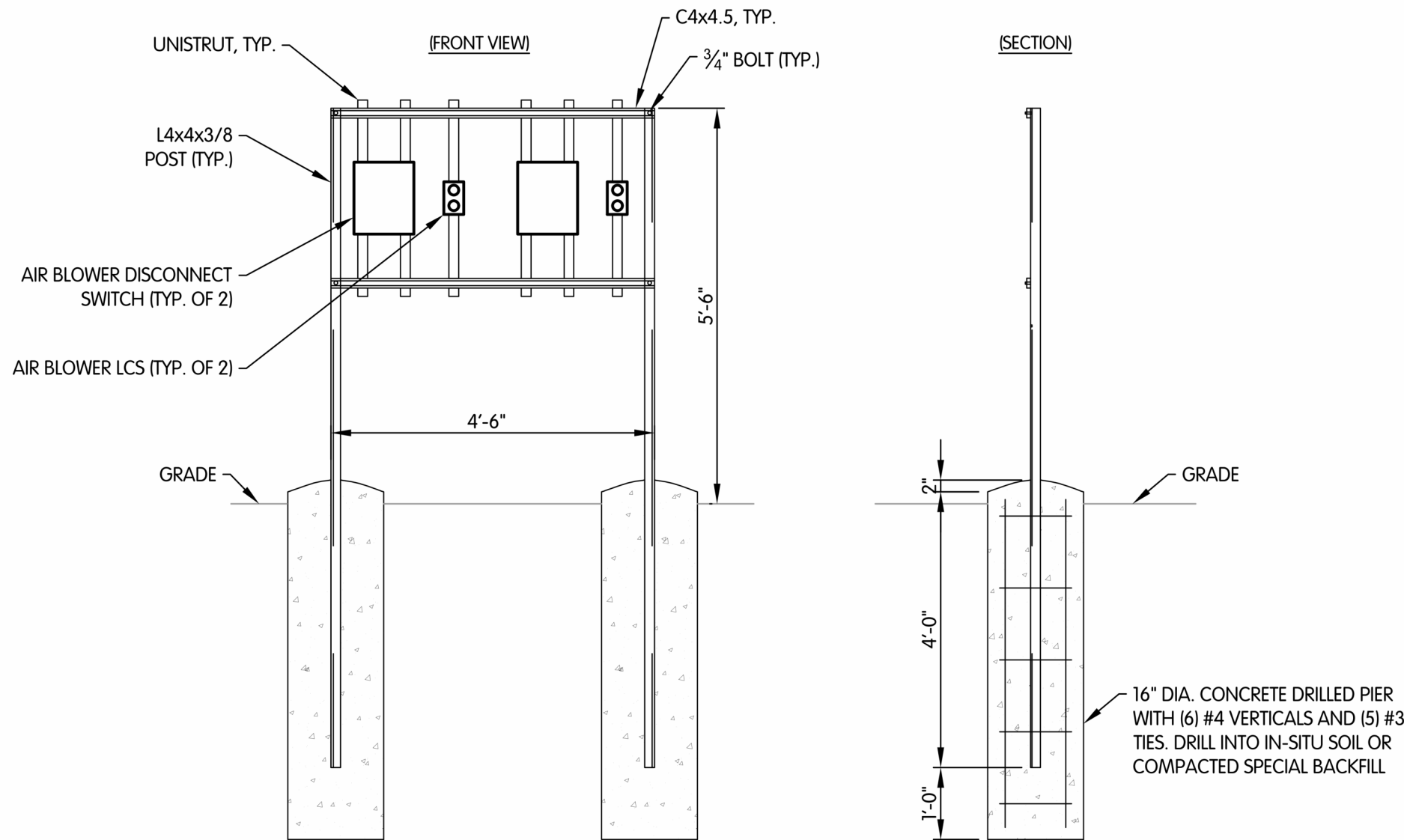
WATER TREATMENT PLANT
ELECTRICAL
POWER PLAN AT EL. 721.00 "AREA A"
VILLAGE OF ASHVILLE, OHIO
NEW WATER TREATMENT PLANT

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JOB NO.:		1000-8177.002	
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E-1.1			
109		OF	129

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ELECTRICAL EQUIPMENT RACK DETAIL
(TYP. OF EQUIPMENT RACK 1) 1/2" = 1'-0"

- NOTES:
1. PROVIDE HOT DIPPED GALVANIZED FRAME AND CONNECTIONS.
 2. CONTRACTOR TO SELECT GALVANIZED UNISTRUT (OR EQUAL) VERTICAL MEMBERS AS REQUIRED TO SUPPORT ELECTRICAL EQUIPMENT AND FASTEN TO CHANNELS. FASTENERS SHALL BE GALVANIZED OR ZINC PLATED.
 3. REFER TO SECTION FOR REINFORCING AND SPECIAL BACKFILL BASE.



PANELBOARD DESIGNATION/TAG				LP-1											
LOCATION:		LABORATORY 1 (SEE ONE-LINE DIAGRAM)			VOLTS:		208Y/120V			A.I.C. (Fully Rated):		10KA			
FEEDER SIZE:					PHASES:		3			BREAKERS:		BOLT ON			
FED FROM:		75KVA XFMR VIA PP-1			WIRES:		4			MAINS RATING:		225 A			
MOUNTING:		SURFACE			AVAILABLE CKTS.:		72			MCB RATING:		225 A			
ENCLOSURE:		NEMA 12			% SOLID NEUTRAL:		100%			SPD:		INTERNAL			
Notes:															
CKT	CIRCUIT DESCRIPTION	WIRE SIZE	AMP	POLES	A	B	C	A	B	C	POLES	AMP	WIRE SIZE	CIRCUIT DESCRIPTION	CKT
1	LEAK CONTROLLERS - LIT-11, 12, 13, 14	#12	20 A	1	20 VA			100 VA			1	20 A	#12	BAFCON CONTROLLER FOR DCF-1 - DCF-6	2
3	FC-2 DUCT SMOKE DETECTOR	#12	20 A	1		30 VA			160 VA		1	15 A	#12	AIR DRYER	4
5	LIGHTING - SIGN LIGHTING	#12	20 A	1			42 VA			273 VA	1	20 A	#10	LIGHTING & RECEPTACLES - CLEARWELLS	6
7	LIGHTING - EXTERIOR	#8	20 A	1	284 VA			360 VA			1	20 A	#12	RECEPTACLES - SODIUM HYPOCHLORITE...	8
9	LIGHTING - RESTROOM, CLOSETS, &...	#12	20 A	1		299 VA			365 VA		1	20 A	#6	LIGHTING - POLE-MOUNTED AROUND SITE	10
11	RECEPTACLES - CAUSTIC SODA PUMPS	#12	20 A	1			360 VA			400 VA	1	15 A	#12	ANALYZERS - AIT-01, 02, 03, 04	12
13	LEVEL TRANSMITTERS - LIT-05, 06, 07, 08, 09, 10	#12	20 A	1	400 VA			540 VA			1	20 A	#12	RECEPTACLES - CHEMICAL ROOM	14
15	LIGHTING - ELECTRICAL ROOM	#12	20 A	1		429 VA			540 VA		1	20 A	#12	RECEPTACLES - MECHANICAL ROOM	16
17	HOT WATER RECIRCULATION PUMP, HWRP-1	#12	20 A	1			528 VA			684 VA	1	20 A	#10	GAS UNIT HEATERS, GUH-1, 2, 3	18
19	RECEPTACLE - LAB REFRIGERATOR	#12	20 A	1	700 VA			900 VA			1	20 A	#8	RECEPTACLES - NORTHWEST EXTERIOR	20
21	LIGHTING - LAB, CONFERENCE ROOM, &...	#10	20 A	1		727 VA			900 VA		1	20 A	#10	RECEPTACLES - PROCESS ROOM (S.W. SIDE)	22
23	HEAT TRACE HT-14 - HT-16 AND CONTROLLER	#10	20 A	1			852 VA			912 VA	1	20 A	#10	GAS UNIT HEATERS, GUH-4, 5, 6, 7	24
25	EXHAUST FAN, EF-2	#12	20 A	1	964 VA			2116 VA			1	30 A	#1	LIGHTING - PROCESS AREA	26
27	ACCESS CONTROL PANEL	#12	20 A	1		1000 VA			1010 VA		1	20 A	#6	LIGHTING - CHEMICAL & MECHANICAL ROOMS	28
29	NETWORK DATA RACK	#12	20 A	1			1000 VA			1080 VA	1	20 A	#10	RECEPTACLES - WORKSPACE & HALLWAY	30
31	HEAT TRACE HT-1 - HT-13 AND CONTROLLER	#6	30 A	1	2208 VA			1352 VA			2	20 A	#12	HEAT PUMP, HP-3	32
33	FLOW METERS, FIT-01 - FIT-11	#6	20 A	1		1100 VA			1352 VA						34
35	MAIN PLC	#12	20 A	1			1000 VA			850 VA	2	20 A	#12	208V RECEPTACLE - DEHUMIDIFIER, DH-1	36
37	RECEPTACLE - CONDENSATE PUMP, DHCP-1	#12	20 A	1	180 VA			850 VA							38
39	FAN COIL, FC-1	#12	15 A	1		1056 VA			180 VA		1	20 A	#12	RECEPTACLE - GAS WATER HEATER GWH-1	40
41	SPARE	--	20 A	1			0 VA			180 VA	1	20 A	#12	RECEPTACLE - WATER COOLER, WC-1	42
43	BRINE TANK LEVEL CONTROLLERS	#12	20 A	1	200 VA			300 VA			1	20 A	#12	CAUSTIC I/O JUNCTION PANEL	44
45	CLEARWELL LEVEL TRANSMITTERS - LIT-04, 05	#12	15 A	1		200 VA			300 VA		1	20 A	#12	POST-FILTER I/O JUNCTION PANEL	46
47	DUALATOR LEVEL TRANSMITTERS - LIT-01, 02	#12	15 A	1			200 VA			300 VA	1	20 A	#12	PRE-FILTER I/O JUNCTION PANEL	48
49	CAUSTIC SODA DAY TANK SCALE INDICATOR	#12	20 A	1	500 VA			720 VA			1	20 A	#12	RECEPTACLES - LAB	50
51	FIRE ALARM/SPRINKLER CONTROL PANEL	#12	20 A	1		500 VA			720 VA		1	20 A	#10	RECEPTACLES - PROCESS ROOM (N.E. SIDE)	52
53	SODIUM HYPO. DAY TANK SCALE INDICATOR	#12	20 A	1			500 VA			720 VA	1	20 A	#10	RECEPTACLES - SOUTHEAST EXTERIOR	54
55	RECEPTACLES - CLOSETS AND RESTROOM	#12	20 A	1	720 VA			1920 VA			1	20 A	#2	SLIDING GATE OPERATOR - NORTH	56
57	RECEPTACLES - CONFERENCE ROOM	#12	20 A	1		900 VA			1920 VA		1	20 A	#4	SLIDING GATE OPERATOR - SOUTH	58
59	RECEPTACLES - ELECTRICAL ROOM	#12	20 A	1			720 VA			1920 VA	1	20 A	#6	SLIDING GATE OPERATOR - WEST	60
61					2281 VA			720 VA			1	20 A	#10	DOOR POWER SUPPLIES - ADMIN, MECH, CHEM	62
63	HEAT PUMP, HP-1	#10	30 A	3		2281 VA			480 VA		1	20 A	#10	DOOR POWER SUPPLIES - WTP	64
65						2281 VA				0 VA	1	20 A	--	SPARE	66
67	SPACE	--	--	1	--			0 VA			1	20 A	--	SPARE	68
69	SPACE	--	--	1		--	--		--		1	--	--	SPACE	70
71	SPACE	--	--	1		--	--		--	--	1	--	--	SPACE	72
Total Load:					18335 VA		16449 VA		14802 VA						
Total Amps:					155 A		139 A		123 A						

PANELBOARD DESIGNATION/TAG				PP-1											
LOCATION:		ELECTRICAL ROOM 5			VOLTS:		480V			A.I.C. (Fully Rated):		42 kA			
FEEDER SIZE:		(SEE ONE-LINE DIAGRAM)			PHASES:		3			BREAKERS:		BOLT ON			
FED FROM:		MCC-1 / MCC-2			WIRES:		3			MAINS RATING:		200 A			
MOUNTING:		Surface			AVAILABLE CKTS.:		30			MCB RATING:		200 A			
ENCLOSURE:		NEMA 12			% SOLID NEUTRAL:		100%			SPD:		INTERNAL			
Notes:															
CKT	CIRCUIT DESCRIPTION	WIRE SIZE	AMP	POLES	A	B	C	A	B	C	POLES	AMP	WIRE SIZE	CIRCUIT DESCRIPTION	CKT
1					3880 VA			942 VA							2
3	AIR COMPRESSOR	#12	20 A	3		3880 VA			942 VA		3	20 A	#12	EXHAUST FAN EF-1	4
5							3880 VA			942 VA					6
7					3990 VA			4711 VA							8
9	FAN COIL FC-2	#12	20 A	3		3990 VA			4711 VA		3	25 A	#10	HEAT PUMP HP-2	10
11							3990 VA			4711 VA					12
13					25000 VA			1746 VA							14
15	75 KVA XFMR FOR LP-1	#1	125 A	3		25000 VA			1746 VA		3	20 A	#12	DESTRATIFICATION CEILING FANS, DCF-1, DCF-3, DCF-5	16
17							25000 VA			1746 VA					18
19					1746 VA			2952 VA							20
21	DESTRATIFICATION CEILING FANS, DCF-2, DCF-4, DCF-6	#12	20 A	3		1746 VA			2952 VA		3	15 A	#12	FAN COIL FC-3	22
23							1746 VA			2952 VA					24
25					0 VA			0 VA							26
27	SPARE	--	20 A	3		0 VA			0 VA		3	20 A	--	SPARE	28
29							0 VA			0 VA					30
Total Load:					44967 VA		44967 VA		44967 VA						
Total Amps:					162 A		162 A		162 A						

TAG/ID		DESCRIPTION
E1	LITHONIA CAT. NO. LHQM-LED-R-HO / ELA-T-SD-Q-10309.	COMBO EXIT/EMERGENCY LED, WHITE HOUSING W/ RED LETTERS, 120V, 50"-104" OPERATION, 90 MINUTE NI-CAD BATTERY, SELF-DIAGNOSTICS, TWIN LED HEADS, 120V / 4 VA. MOUNTED 8' AFF. WIRE AHEAD OF SWITCH FOR LIGHTS SERVING AREA.
E2	LITHONIA CAT. NO. EU2L.	EMERGENCY LED, WHITE HOUSING, 50"-104" OPERATION, 90 MINUTE NI-CAD BATTERY, SELF-DIAGNOSTICS, 120V / 4 VA. MOUNTED AT 8' AFF. WIRE AHEAD OF SWITCH FOR LIGHTS SERVING AREA.
E3	LITHONIA CAT. NO. WLTU-LED-ERE-GY-T-WP-SQ-M12.	INDURA EMERGENCY LED UNIT WITH TWIN LED OUTDOOR REMOTE HEADS, 4 VA. WIRE AHEAD OF SWITCH SERVING AREA. MOUNTED AT 9'-0" ABOVE GRADE.
F1	LITHONIA CAT. NO. TWX-LED-P2-40K-T25-MVOLT-PE-HS-DBLXD.	LED WALL LUMINAIRE, PERFORMANCE PACKAGE 2, 4000K COLOR TEMPERATURE, MULTIVOLT, BUTTON-STYLE PHOTOCCELL, BLACK FINISH, 120V / 22 VA. MOUNTED AT 9' ABOVE GRADE.
F2	LITHONIA CAT. NO. RSX1-LED-P2-40K-AWFD-MVOLT-IS-PE-DOBXD.	LED FLOODLIGHT, 10146 LUMENS, 4000K, AREA WIDE FORWARD DISTRIBUTION, 120-277 MULTIVOLT, SLIPITTER POLE MOUNTING, BUTTON-STYLE PHOTOCCELL, DARK BRONZE FINISH, 72.9 WATTS, MOUNTED ON A 20' POLE.
F3	LITHONIA CAT. NO. DSXF1-P2-40K-HMF-MVOLT-PE-DBLXD.	D-SERIES LED FLOODLIGHT, PERFORMANCE PACKAGE 1, 4000K COLOR TEMPERATURE, HOZIONTAL MEDIUM FLOOD DISTRIBUTION, MULTIVOLT, BUTTON STYLE PHOTOCCELL, BLACK FINISH, 120V / 21 VA. MOUNTED AT GROUND LEVEL AND ANGLED TOWARDS EXTERIOR WALL-MOUNTED WATER TREATMENT PLANT SIGN.
L1	LITHONIA CAT. NO. FEM-LED-L96-18000LM-IMACD-MD-MVOLT-40K-80CRI.	LINEAR LED, 96 INCHES LONG, 18000 LUMENS, ACRYLIC CLEAR DEEP LENS, MEDIUM DISTRIBUTION, MULTIVOLT, 4000K COLOR TEMPERATURE, 80 COLOR RENDERING INDEX. 120V / 103 VA. MOUNTED 20' AFF.
L2	LITHONIA CAT. NO. FEM-LED-L48-6000LM-IMACD-WD-MVOLT-40K-80CRI.	LINEAR LED, 48 INCHES LONG, 6000 LUMENS, ACRYLIC CLEAR DEEP LENS, WIDE DISTRIBUTION, MULTIVOLT, 4000K COLOR TEMPERATURE, 80 COLOR RENDERING INDEX. 120V / 38 VA. MOUNTED 20' AFF.
L3	LITHONIA CAT. NO. FEM-LED-L48-6000LM-IMACD-MD-MVOLT-40K-80CRI.	LINEAR LED, 48 INCHES LONG, 6000 LUMENS, ACRYLIC CLEAR DEEP LENS, MEDIUM DISTRIBUTION, MULTIVOLT, 4000K COLOR TEMPERATURE, 80 COLOR RENDERING INDEX. 120V / 38 VA. MOUNTED 12' AFF.
L4	LITHONIA CAT. NO. FEM-LED-L48-8000LM-IMACD-MD-MVOLT-40K-80CRI.	LINEAR LED, 48 INCHES LONG, 8000 LUMENS, ACRYLIC CLEAR DEEP LENS, MEDIUM DISTRIBUTION, MULTIVOLT, 4000K COLOR TEMPERATURE, 80 COLOR RENDERING INDEX. 120V / 50.5 VA. MOUNTED 12' AFF.
L5	LITHONIA CAT. NO. CPX-2X4-4000LM-80CRI-40K-SWL-MVOLT.	LAY-IN 2X4 LED PANEL, 4000 LUMENS, 80 COLOR RENDERING INDEX, 4000K COLOR TEMPERATURE, SATIN WHITE DIFFUSER, MULTIVOLT, 120V / 37 VA. LAID IN CEILING TILE.
L6	LITHONIA CAT. NO. CPX-2X2-2000LM-80CRI-40K-SWL-MVOLT.	LAY-IN 2X2 LED PANEL, 2000 LUMENS, 80 COLOR RENDERING INDEX, 4000K COLOR TEMPERATURE, SATIN WHITE DIFFUSER, MULTIVOLT, 120V / 15.6 VA. LAID IN CEILING TILE.
L7	LITHONIA CAT. NO. CPX-2X2-3200LM-80CRI-40K-SWL-MVOLT.	LAY-IN 2X2 LED PANEL, 3200 LUMENS, 80 COLOR RENDERING INDEX, 4000K COLOR TEMPERATURE, SATIN WHITE DIFFUSER, MULTIVOLT, 120V / 30.1 VA. LAID IN CEILING TILE.
L8	LITHONIA CAT. NO. VCLV-LED-P1-40K-80CRI-T5M-MVOLT-AC6-DBLXD.	ARCHITECTURAL CANOPY LED LUMINAIRE, PERFORMANCE PACKAGE 1, 4000K COLOR TEMPERATURE, 80 COLOR RENDING INDEX, TYPE 5 MEDIUM DISTRIBUTION, MULTIVOLT, ADJUSTABLE CABLE WITH CORD, BLACK FINISH, 120V / 27 VA. SUSPENDED 9'-0" ABOVE CONCRETE FLOOR.

WATER TREATMENT PLANT
ELECTRICAL
SCHEDULES

VILLAGE OF ASHVILLE, OHIO
NEW WATER TREATMENT PLANT

JHM
BY
12/5/25
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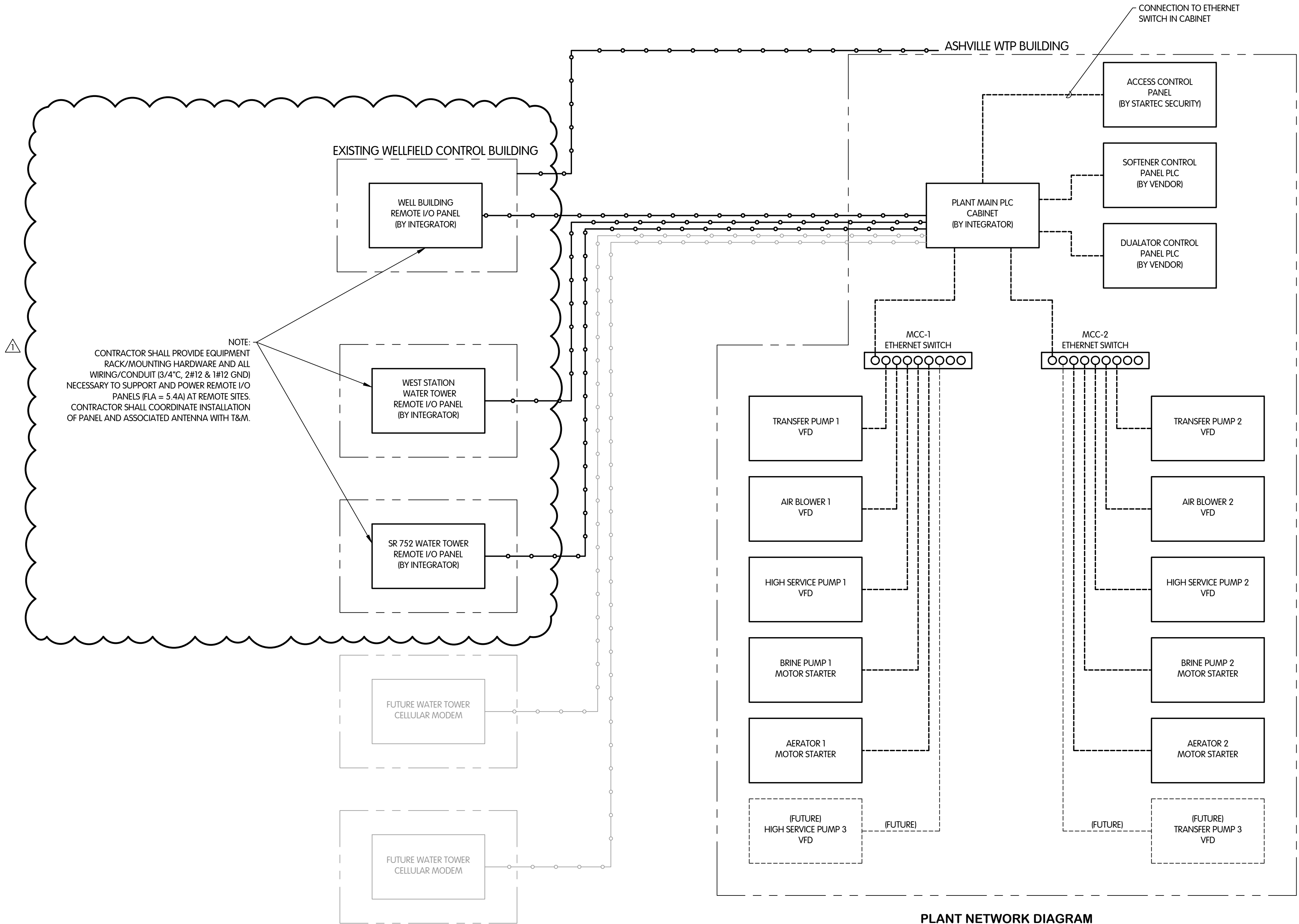
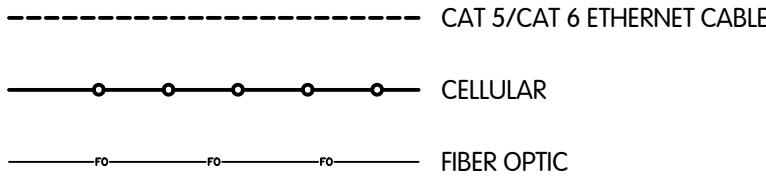
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E-1.4

112 OF 129

CIN-81770201-120 I-0.2 PLANT NETWORK DIAGRAM
11/14/2025 9:17 AM - L. BROWN
12/14/2025 10:52 AM

NETWORK DIAGRAM LEGEND



PLANT NETWORK DIAGRAM

NOTE:
PROVIDE SPARE I/O POINTS FOR FUTURE DUALATOR 3, FUTURE SOFTENER 4, FUTURE TRANSFER PUMP 3, AND FUTURE HIGH SERVICE PUMP 3.

INSTRUMENTATION AND CONTROL
PLANT NETWORK DIAGRAM

VILLAGE OF ASHVILLE, OHIO
NEW WATER TREATMENT PLANT

Jones & Henry
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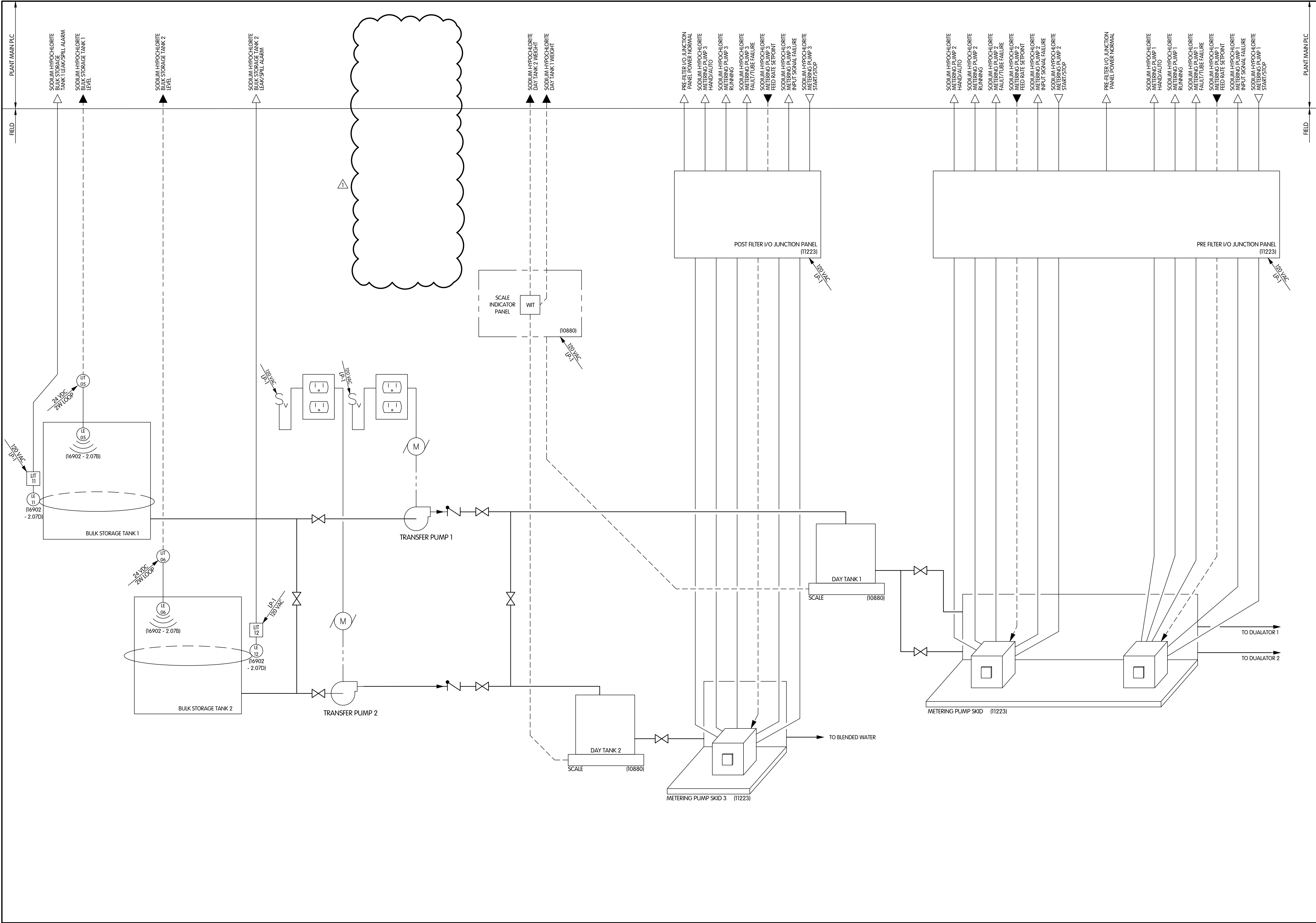
DATE 11/18/25


SHEET NO.

I-0.2

120 OF 129

CIN-81770201-127 I-0.9 SODIUM HYPOCHLORITE EQUIPMENT
11/14/2025 9:17 AM - L. BROWN
12/14/2025 10:52 AM



INSTRUMENTATION AND CONTROLS SODIUM HYPOCHLORITE EQUIPMENT P&ID		JDM BY	
		REVISIONS AFTER ISSUED FOR BID	
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DATE: 11/18/25			
SHEET NO. I-0.9			
127 OF 129			