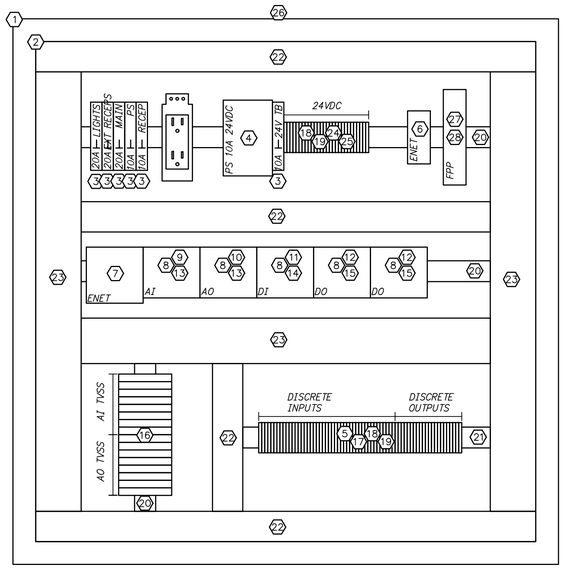

SLUDGE MIXING BOX
CONTROL PANEL CP-SMB

DETAIL A
NTS

KEY	QTY	ITEM	CAT. #	MANUFACTURER	EQUAL
1	1	ENCLOSURE 36" x 36" x 12"	HW363612SSHK	HAMMOND	YES
2	1	SUBPANEL FOR 36" x 36" PANEL	18P3333	HAMMOND	YES
3	6	CIRCUIT BREAKER	1489-M	ALLEN-BRADLEY	YES
4	1	POWER SUPPLY	SDN10-24-100P	SOLA HEVI-DUTY	YES
5	AR	DOUBLE-LEVEL TERMINAL BLOCKS	KN-D12GRY	AUTOMATION DIRECT	YES
6	1	ETHERNET SWITCH W/ 2 ST FIBER PORTS	106FX2-ST	RED LION	YES
7	1	FLEX 5000 ETHERNET MODULE	5094-AENTR	ALLEN-BRADLEY	NO
8	5	FLEX 5000 MODULE MOUNTING BASE	5094-MB	ALLEN-BRADLEY	NO
9	1	FLEX 5000 AI MODULE	5094-IF8	ALLEN-BRADLEY	NO
10	1	FLEX 5000 AO MODULE	5094-OF8	ALLEN-BRADLEY	NO
11	1	FLEX 5000 DI MODULE	5094-IB32	ALLEN-BRADLEY	NO
12	2	FLEX 5000 DO RELAY MODULE	5094-OW8I	ALLEN-BRADLEY	NO
13	2	FLEX 5000 RTB ISOLATED	5094-RTB3I	ALLEN-BRADLEY	NO
14	1	FLEX 5000 RTB 32 INPUT	5094-RTB32V	ALLEN-BRADLEY	NO
15	2	FLEX 5000 RTB RELAY	5094-RTB3W	ALLEN-BRADLEY	NO
16	16	4-20 mA SURGE SUPPRESSOR	DLA-24D3	CITEL	YES
17	AR	TERMINAL BLOCK END COVER	KN-ECDGRY	AUTOMATION DIRECT	YES
18	AR	GROUND TERMINAL BLOCK	KN-G12SP-10	AUTOMATION DIRECT	YES
19	AR	TERMINAL BLOCK JUMPER	KN-10J12	AUTOMATION DIRECT	YES
20	AR	35MM DIN RAIL	DN-R35SAL1	AUTOMATION DIRECT	YES
21	AR	35MM DIN RAIL RAISED	DN-R35SAL2-2	AUTOMATION DIRECT	YES
22	AR	2" DUCT & 2" COVER	181-2400B & 181-92005	HELLERMAN TYTON	YES
23	AR	3" DUCT & 3" COVER	181-34004 & 181-93008	HELLERMAN TYTON	YES
24	AR	TERMINAL BLOCK BLUE	KN-T12BLU	AUTOMATION DIRECT	YES
25	AR	TERMINAL BLOCK END COVER	KN-ECT6BLU	AUTOMATION DIRECT	YES
26	1	7" HMI TOUCHSCREEN PANELVIEW 5310	2713P-T7WD1	ALLEN-BRADLEY	NO
27	1	DIN MOUNT FIBER PATCH PANEL	PWS1-A-1-D	RLH INDUSTRIES	YES
28	1	TERMINAL BLOCK END COVER	AP-ST6-LSMM-G	RLH INDUSTRIES	YES

THE CONTRACTOR SHALL PROVIDE ALL OTHER REQUIRED MISCELLANEOUS PARTS, INCLUDING FUSES, TERMINAL MARKERS, CONTROL RELAYS, WIRE LABELS, MTW WIRE, AND SHIELDED CABLE.

CONTROL PANEL CP-SMB

DETAIL B
N.T.S.

I/O CARD 1	DESCRIPTION
0	VALVE VLV-001 POSITION FEEDBACK
1	VALVE VLV-002 POSITION FEEDBACK
2	VALVE VLV-003 POSITION FEEDBACK
3	VALVE VLV-004 POSITION FEEDBACK
4	VALVE VLV-005 POSITION FEEDBACK
5	MIXING BOX LEVEL
6	SPARE
7	SPARE

ANALOG INPUTS

DETAIL C
N.T.S.

I/O CARD 2	DESCRIPTION
0	VALVE VLV-001 POSITION REFERENCE
1	VALVE VLV-002 POSITION REFERENCE
2	VALVE VLV-003 POSITION REFERENCE
3	VALVE VLV-004 POSITION REFERENCE
4	VALVE VLV-005 POSITION REFERENCE
5	SPARE
6	SPARE
7	SPARE

ANALOG OUTPUTS

DETAIL D
N.T.S.

I/O CARD 3	DESCRIPTION
0	VALVE VLV-001 OPENED
1	VALVE VLV-001 CLOSED
2	VALVE VLV-001 FAULT
3	VALVE VLV-002 OPENED
4	VALVE VLV-002 CLOSED
5	VALVE VLV-002 FAULT
6	VALVE VLV-003 OPENED
7	VALVE VLV-003 CLOSED
8	VALVE VLV-003 FAULT
9	VALVE VLV-004 OPENED
10	VALVE VLV-004 CLOSED
11	VALVE VLV-004 FAULT
12	VALVE VLV-005 OPENED
13	VALVE VLV-005 CLOSED
14	VALVE VLV-005 FAULT
15	PUMP PMP-01 RUNNING
16	PUMP PMP-01 IN AUTO
17	PUMP PMP-01 FAULT
18	SPARE
19	SPARE
20	SPARE
21	SPARE
22	SPARE
23	SPARE
24	SPARE
25	SPARE
26	SPARE
27	SPARE
28	SPARE
29	SPARE
30	SPARE
31	SPARE

DISCRETE INPUTS

DETAIL E
N.T.S.

I/O CARD 4	DESCRIPTION
0	VALVE VLV-001 OPEN COMMAND
1	VALVE VLV-001 CLOSE COMMAND
2	VALVE VLV-002 OPEN COMMAND
3	VALVE VLV-002 CLOSE COMMAND
4	VALVE VLV-003 OPEN COMMAND
5	VALVE VLV-003 CLOSE COMMAND
6	VALVE VLV-004 OPEN COMMAND
7	VALVE VLV-004 CLOSE COMMAND

I/O CARD 5	DESCRIPTION
0	VALVE VLV-005 OPEN COMMAND
1	VALVE VLV-005 CLOSE COMMAND
2	PUMP PMP-01 RUN COMMAND
3	SPARE
4	SPARE
5	SPARE
6	SPARE
7	SPARE

DISCRETE OUTPUTS

DETAIL F
N.T.S.

1"
ONE INCH
AT FULL SIZE
IF NOT ONE INCH
SCALE ACCORDINGLY

REVISION	DATE

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STATE OF ARKANSAS
PROFESSIONAL ENGINEER
No. 9686
C. SCOTT BARNES
8/26/24

HAWKINS WEIR ENGINEERS, INC.
BLACK & VEATCH

ROGERS, ARKANSAS
ROGERS POLLUTION CONTROL FACILITY (PCF)
SOLIDS HANDLING IMPROVEMENTS, PHASE II

SLUDGE MIXING BOX CP-SMB
CONTROL PANEL B.O.M. AND DETAILS
FOR: ROGERS WATER UTILITIES

DATE: AUGUST 2024
SCALE: NTS
DESIGNED BY: LSM
DRAWN BY: LSM
HWEI NO.: 2020043
FILENAME: IC-01

SHEET NO.
IC-1

Z:\20\2020043 ROGERS SOLIDS HANDLING IMPROVEMENTS, PH 2\DRAWINGS\CONSTRUCTION DRAWINGS\WWTP\IC-01.DWG, 8/26/2024 11:25 AM, MATT WEIR, LAYOUT1