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CHRISTOPHER A. CARVALHO  
REGISTERED PROFESSIONAL ENGINEER  
No. 366296  
STATE OF UTAH



**SV South Valley**  
WATER RECLAMATION FACILITY  
7495 South 1300 West  
West Jordan, Utah 84084

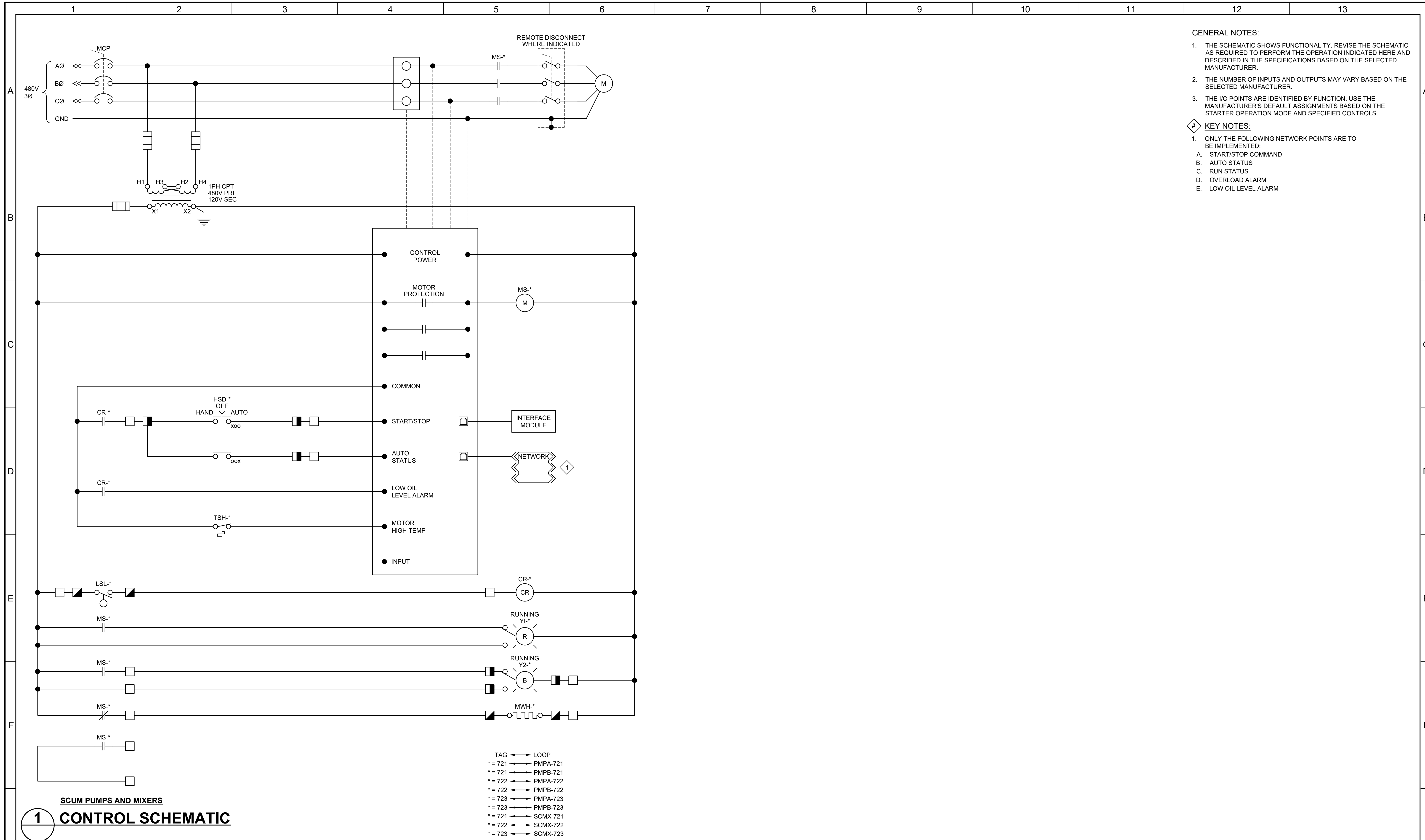
SOUTH VALLEY WATER RECLAMATION  
MCC REPLACEMENT PROJECT  
ELECTRICAL  
**SP-MCC-E**  
**ONE-LINE DIAGRAM - 2**

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 202633  
DRAWING NO. **GE-OL-SP-10**  
SHEET NO. 43 OF 57

	1	2	3	4	5	6	7	8	9	10	11	12	13
	PROCESS SWITCHES		HAND SWITCHES		RELAYS		TERMINAL BLOCKS		MISC		MISC		
A		LEVEL SWITCH CLOSE ON RISING LEVEL		NORMALLY OPEN MOMENTARY PUSHBUTTON		RELAY COIL a = TYPE CR - CONTROL RELAY TD - TIME DELAY RELAY M - MOTOR STARTER COIL L - MOTOR STARTER COIL - LOW SPEED H - MOTOR STARTER COIL - HIGH SPEED F - MOTOR STARTER COIL - FORWARD R - MOTOR STARTER COIL - REVERSE		TERMINAL IN PLC/PCM PANEL		SOLENOID		MISC PORT	
B		LEVEL SWITCH OPEN ON RISING LEVEL		NORMALLY CLOSED MOMENTARY PUSHBUTTON		b = TDON - TIME DELAY ON ENERGIZATION TDOFF - TIME DELAY ON DEENERGIZATION		TERMINAL IN MOTOR CONTROL CENTER		CIRCUIT BREAKER		ETHERNET PORT	
C		PRESSURE SWITCH CLOSE ON RISING PRESSURE		THREE POSITION SELECTOR SWITCH x - DENOTES POSITION CONTACTS CLOSED IN		c = TIMING RANGE/SETTING d = DESCRIPTION		TERMINAL IN LOCAL STARTER CONTROL PANEL		DISCONNECT		SPD SURGE PROTECTION DEVICE	
D		PRESSURE SWITCH OPEN ON RISING PRESSURE		TWO POSITION SELECTOR SWITCH x - DENOTES POSITION CONTACTS CLOSED IN				TERMINAL AT FIELD DEVICE		FUSE		TRANSFORMER LINE/LOAD REACTOR	
E		TEMPERATURE SWITCH CLOSE ON RISING TEMPERATURE		MUSHROOM HEAD PUSHBUTTON				TERMINAL IN RTU		TRANSIENT SURGE PROTECTION		MOTOR WINDING HEATER * - MOTOR TAG I.D.	
F		TEMPERATURE SWITCH OPEN ON RISING TEMPERATURE		PUSH-PULL PUSHBUTTON MAINTAINED CONTACT				TERMINAL IN FIELD PANEL		VARISTOR		CAPACITOR	
G		FLOW SWITCH CLOSE ON INCREASE IN FLOW		PADLOCK SWITCH x - DENOTES POSITION CONTACTS CLOSED IN				TERMINAL IN (USER CHOICE)		RESISTOR		BATTERY	
H		FLOW SWITCH OPEN ON INCREASE IN FLOW		PULL CORD SWITCH				DIGITAL BUS CONNECTOR * = D - DEVICENET * = PA - PROFIBUS PA * = DP - PROFIBUS DP * = H1 - FOUNDATION FIELDBUS H1 * = H2 - FOUNDATION FIELDBUS H2 * = E - ETHERNET		DIODE		MOTOR OVERLOAD HEATERS	
I		VIBRATION SWITCH OPEN ON RISING VIBRATION		STOP-LOCKOUT PUSHBUTTON				I/O		DRAWOUT CONNECTION		GROUND	
J		VIBRATION SWITCH CLOSE ON RISING VIBRATION		SPRING-RETURN x - DENOTES POSITION CONTACTS CLOSED IN				PLC DISCRETE a = INPUT OR OUTPUT AS INDICATED		CONTROL POWER TRANSFORMER		LIGHTNING ARRESTOR	
K		TORQUE SWITCH OPEN ON HIGH TORQUE	INDICATORS			PILOT LIGHT a = LENS COLOR R = RED G = GREEN W = WHITE A = AMBER B = BLUE Y = YELLOW C = CLEAR		PLC ANALOG a = INPUT OR OUTPUT AS INDICATED		ELAPSED TIME METER		RTD	
L		TORQUE SWITCH CLOSE ON HIGH TORQUE		BEACON a = LENS COLOR R = RED G = GREEN W = WHITE A = AMBER B = BLUE M = MAGENTA C = CLEAR		HORN		DIGITAL BUS					
M		NORMALLY CLOSED LIMIT SWITCH											
N		NORMALLY CLOSED HELD OPEN LIMIT SWITCH											
O		NORMALLY OPEN LIMIT SWITCH											
P		NORMALLY OPEN HELD CLOSED LIMIT SWITCH											

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	DRAWN CEY				MCC REPLACEMENT PROJECT			
	CHECKED JGB				INSTRUMENTATION			
	DATE JUNE 2024				SCHEMATIC SYMBOLS			
REV	DATE	BY	DESCRIPTION					



**1 CONTROL SCHEMATIC**

SCUM PUMPS AND MIXERS

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REV	DATE	BY	DESCRIPTION

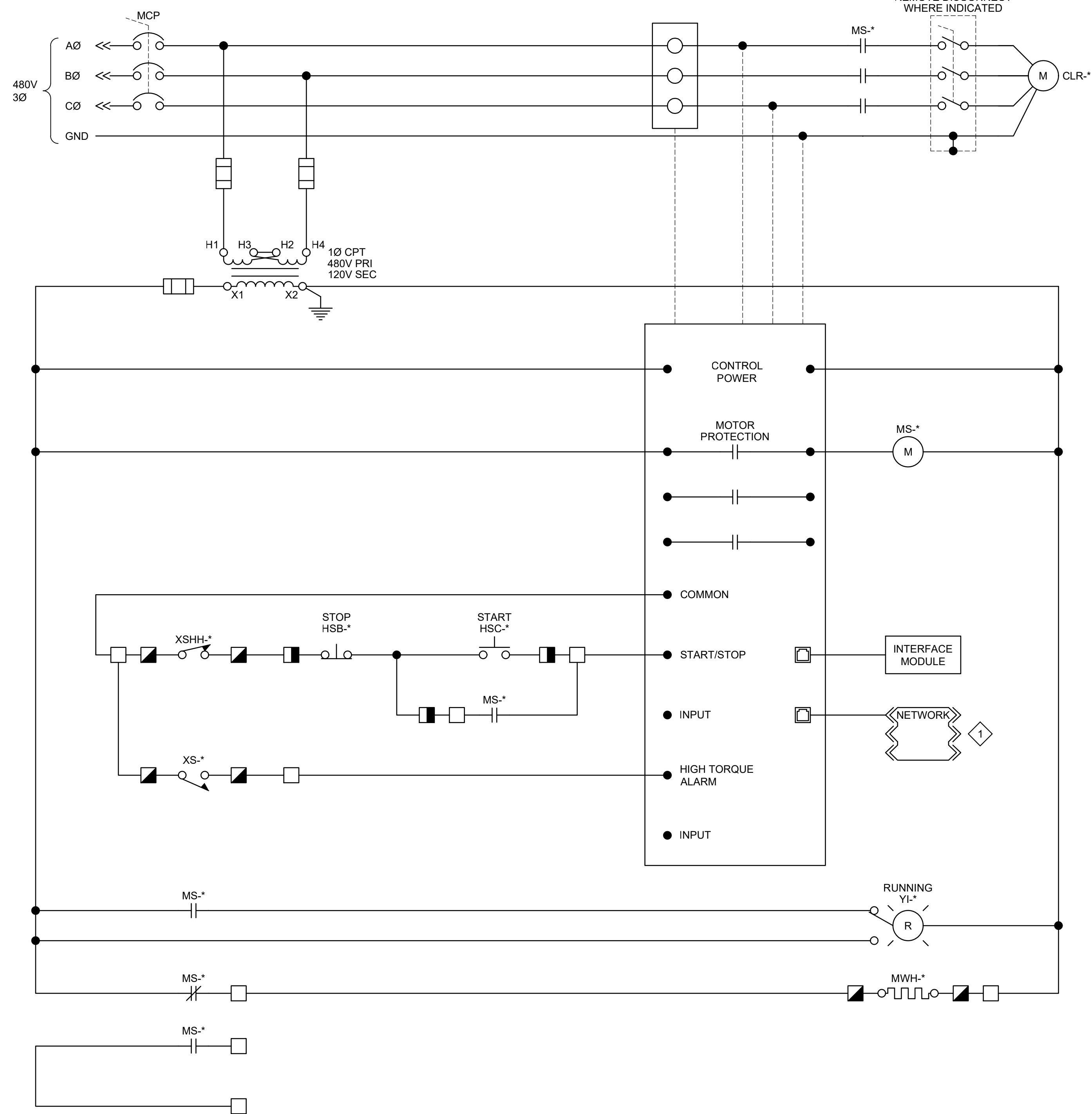
DESIGNED CAC
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CHECKED JGB
DATE JUNE 2024



**SV South Valley**  
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7495 South 1300 West  
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SOUTH VALLEY WATER RECLAMATION  
MCC REPLACEMENT PROJECT  
INSTRUMENTATION  
**CONTROL SCHEMATICS 1**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 202633
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. <b>IS-01</b>
	SHEET NO. 45 OF 57



- GENERAL NOTES:**
1. THE SCHEMATIC SHOWS FUNCTIONALITY. REVISE THE SCHEMATIC AS REQUIRED TO PERFORM THE OPERATION INDICATED HERE BASED ON THE SELECTED MANUFACTURER.
  2. THE NUMBER OF INPUTS AND OUTPUTS MAY VARY BASED ON THE SELECTED MANUFACTURER.
  3. THE I/O POINTS ARE IDENTIFIED BY FUNCTION. USE THE MANUFACTURER'S DEFAULT ASSIGNMENTS BASED ON THE STARTER OPERATION MODE AND SPECIFIED CONTROLS.
- KEY NOTES:**
1. ONLY THE FOLLOWING NETWORK POINTS ARE TO BE IMPLEMENTED:
    - A. RUN STATUS
    - B. OVERLOAD ALARM
    - C. HIGH TORQUE ALARM

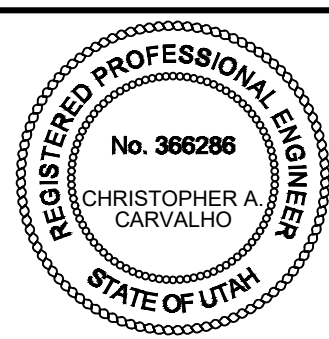
**FINAL CLARIFIERS**  
**2 CONTROL SCHEMATIC**

- TAG → LOOP  
 \* = 701 → CLR-701  
 \* = 702 → CLR-702  
 \* = 703 → CLR-703  
 \* = 704 → CLR-704  
 \* = 705 → CLR-705  
 \* = 706 → CLR-706

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REV	DATE	BY	DESCRIPTION

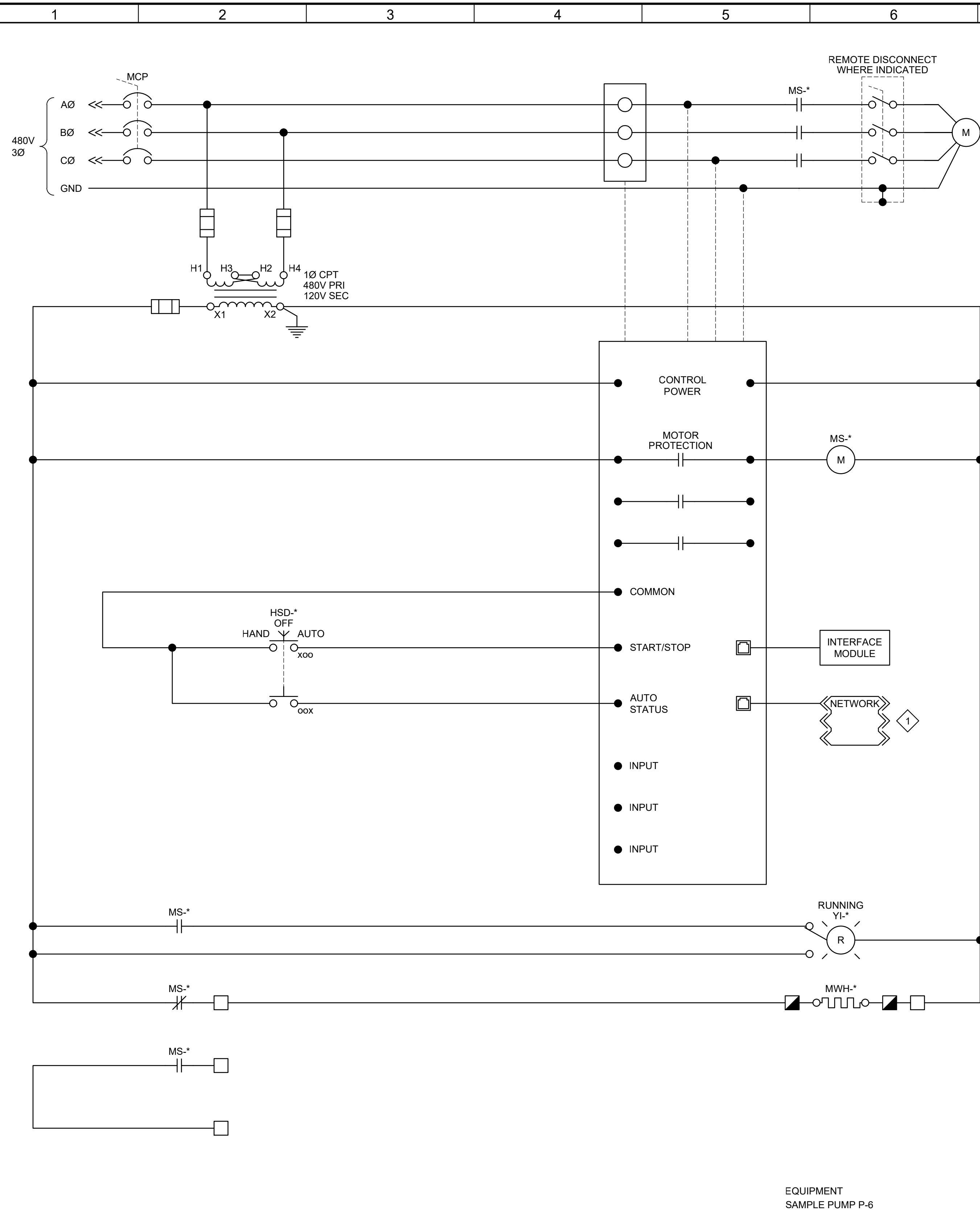
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CGR  
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JUNE 2024



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**SOUTH VALLEY WATER RECLAMATION**  
**MCC REPLACEMENT PROJECT**  
 INSTRUMENTATION  
**CONTROL SCHEMATICS 2**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 202633
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. <b>IS-02</b>
	SHEET NO. 46 OF 57



- GENERAL NOTES:**
1. THE SCHEMATIC SHOWS FUNCTIONALITY. REVISE THE SCHEMATIC AS REQUIRED TO PERFORM THE OPERATION INDICATED HERE AND DESCRIBED IN THE SPECIFICATIONS BASED ON THE SELECTED MANUFACTURER.
  2. THE NUMBER OF INPUTS AND OUTPUTS MAY VARY BASED ON THE SELECTED MANUFACTURER.
  3. THE I/O POINTS ARE IDENTIFIED BY FUNCTION. USE THE MANUFACTURER'S DEFAULT ASSIGNMENTS BASED ON THE STARTER OPERATION MODE AND SPECIFIED CONTROLS.
- KEY NOTES:**
1. ONLY THE FOLLOWING NETWORK POINTS ARE TO BE IMPLEMENTED:
    - A. START/STOP COMMAND
    - B. AUTO STATUS
    - C. RUN STATUS
    - D. OVERLOAD ALARM

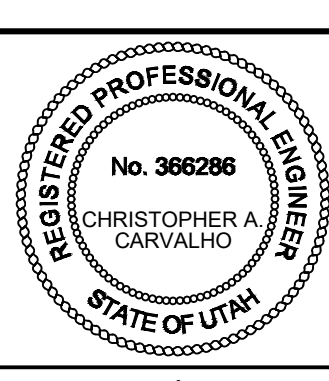
**3 SAMPLE PUMP CONTROL SCHEMATIC**

EQUIPMENT  
SAMPLE PUMP P-6

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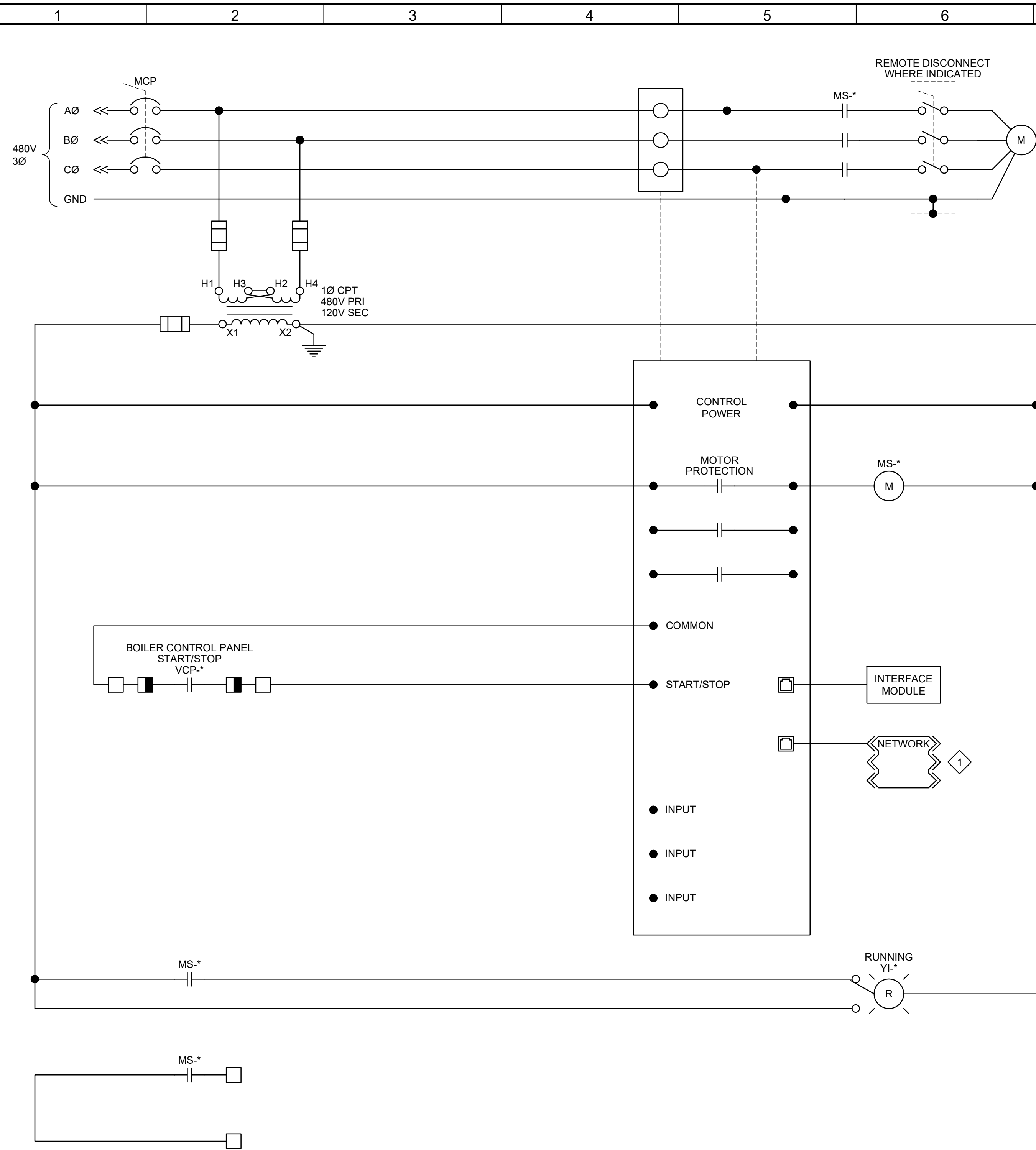
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DRAWN CGR
CHECKED JGB
DATE JUNE 2024



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WATER RECLAMATION FACILITY  
7495 South 1300 West  
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 202633
MCC REPLACEMENT PROJECT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. <b>IS-03</b>
INSTRUMENTATION		0 1"	SHEET NO. 47 OF 57
CONTROL SCHEMATICS 3		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	



- GENERAL NOTES:**
1. THE SCHEMATIC SHOWS FUNCTIONALITY. REVISE THE SCHEMATIC AS REQUIRED TO PERFORM THE OPERATION INDICATED HERE AND DESCRIBED IN THE SPECIFICATIONS BASED ON THE SELECTED MANUFACTURER.
  2. THE NUMBER OF INPUTS AND OUTPUTS MAY VARY BASED ON THE SELECTED MANUFACTURER.
  3. THE I/O POINTS ARE IDENTIFIED BY FUNCTION. USE THE MANUFACTURER'S DEFAULT ASSIGNMENTS BASED ON THE STARTER OPERATION MODE AND SPECIFIED CONTROLS.
- KEY NOTES:**
1. ONLY THE FOLLOWING NETWORK POINTS ARE TO BE IMPLEMENTED:
- A. RUN STATUS
  - B. OVERLOAD ALARM

TAG → LOOP  
 \* = 161 → PMP-161  
 \* = 171 → PMP-171

**BOILER PUMPS**  
**4 CONTROL SCHEMATIC**

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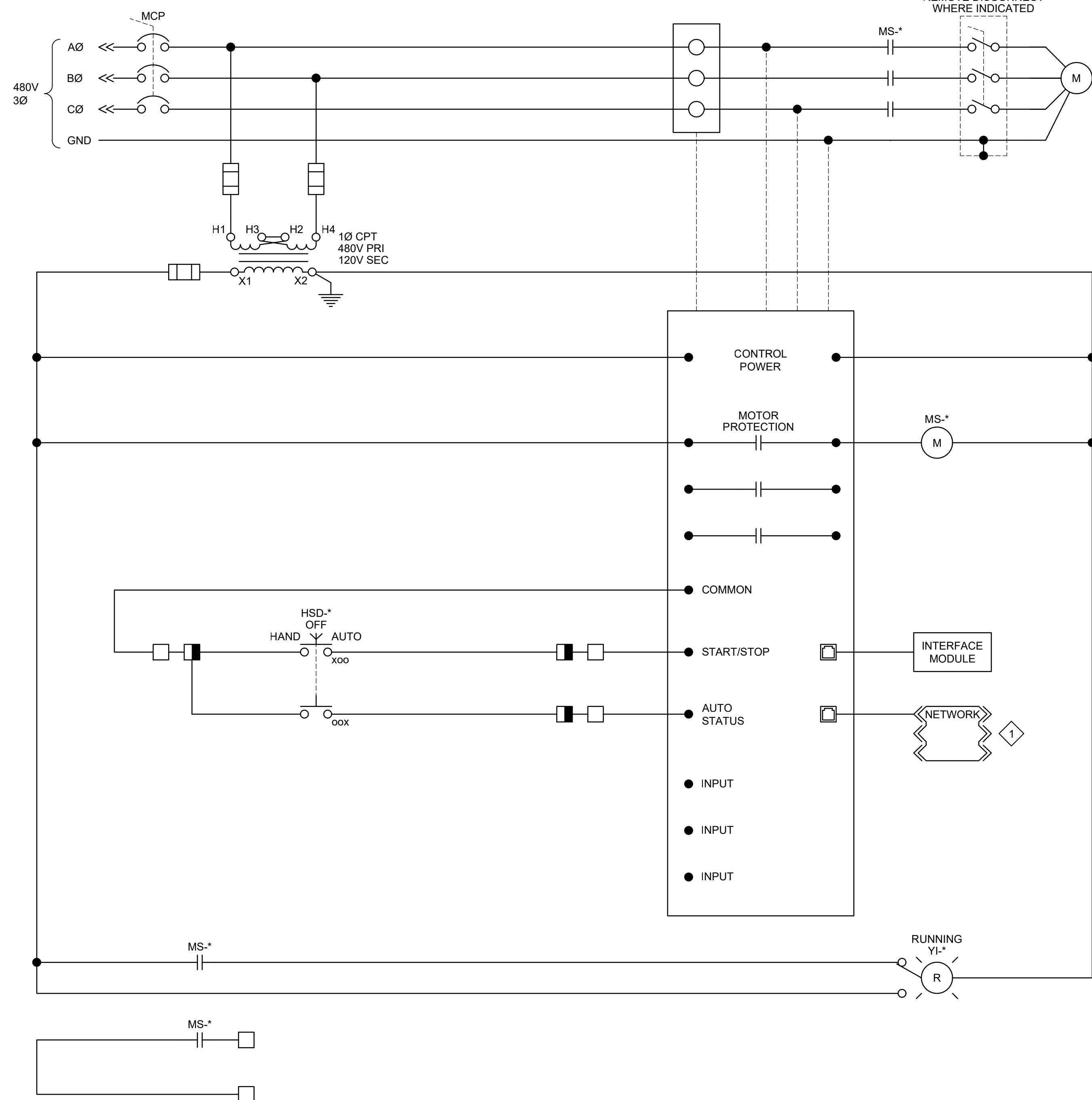
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JUNE 2024



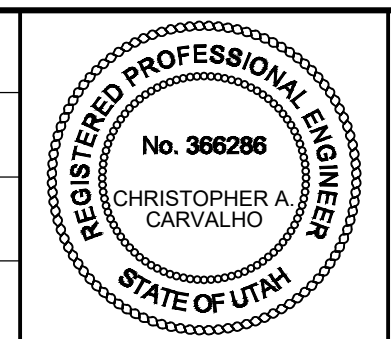
SOUTH VALLEY WATER RECLAMATION  
 MCC REPLACEMENT PROJECT  
 INSTRUMENTATION  
**CONTROL SCHEMATICS 4**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 202633
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. <b>IS-04</b>
	SHEET NO. 48 OF 57



- GENERAL NOTES:**
1. THE SCHEMATIC SHOWS FUNCTIONALITY. REVISE THE SCHEMATIC AS REQUIRED TO PERFORM THE OPERATION INDICATED HERE AND DESCRIBED IN THE SPECIFICATIONS BASED ON THE SELECTED MANUFACTURER.
  2. THE NUMBER OF INPUTS AND OUTPUTS MAY VARY BASED ON THE SELECTED MANUFACTURER.
  3. THE I/O POINTS ARE IDENTIFIED BY FUNCTION. USE THE MANUFACTURER'S DEFAULT ASSIGNMENTS BASED ON THE STARTER OPERATION MODE AND SPECIFIED CONTROLS.
- KEY NOTES:**
1. ONLY THE FOLLOWING NETWORK POINTS ARE TO BE IMPLEMENTED:
    - A. START/STOP COMMAND
    - B. AUTO STATUS
    - C. RUN STATUS
    - D. OVERLOAD ALARM

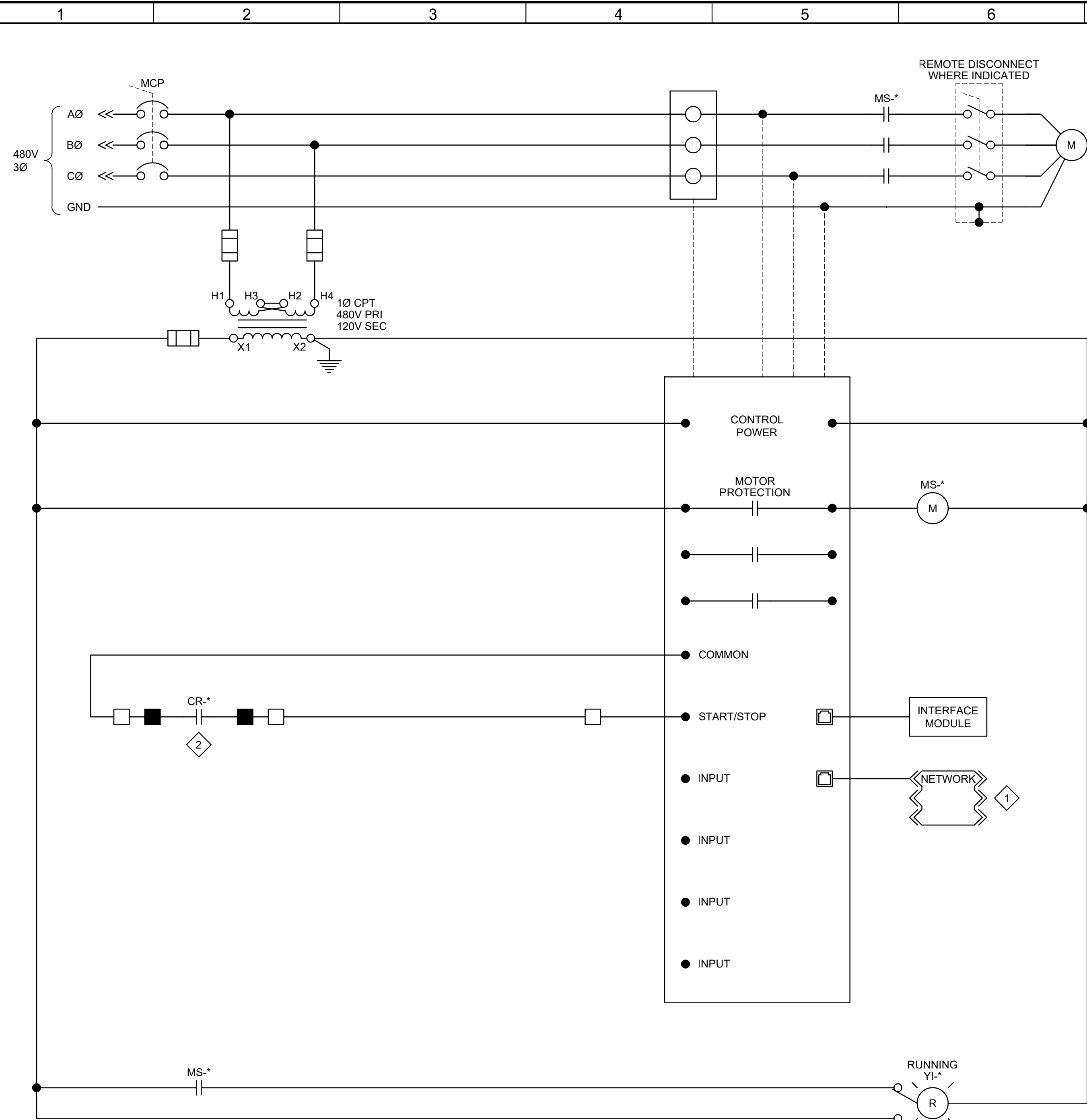
**5 CONTROL SCHEMATIC**



SOUTH VALLEY WATER RECLAMATION  
 MCC REPLACEMENT PROJECT  
 INSTRUMENTATION  
**CONTROL SCHEMATICS 5**

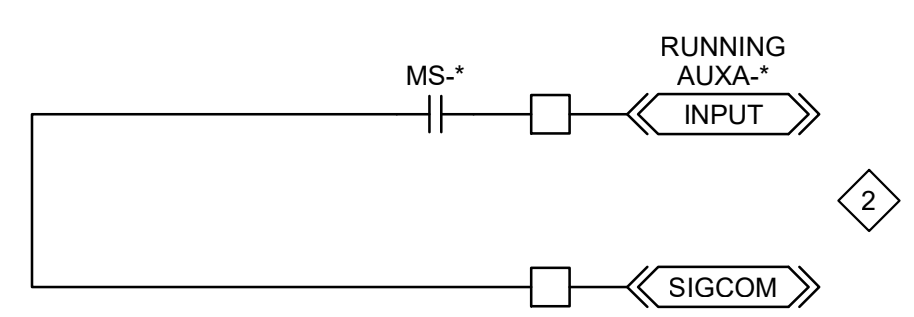
VERIFY SCALES	JOB NO. 202633
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. <b>IS-05</b>
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 49 OF 57

REV	DATE	BY	DESCRIPTION



REMOTE DISCONNECT WHERE INDICATED

- GENERAL NOTES:**
1. THE SCHEMATIC SHOWS FUNCTIONALITY. REVISE THE SCHEMATIC AS REQUIRED TO PERFORM THE OPERATION INDICATED HERE AND DESCRIBED IN THE SPECIFICATIONS BASED ON THE SELECTED MANUFACTURER.
  2. THE NUMBER OF INPUTS AND OUTPUTS MAY VARY BASED ON THE SELECTED MANUFACTURER.
  3. THE I/O POINTS ARE IDENTIFIED BY FUNCTION. USE THE MANUFACTURER'S DEFAULT ASSIGNMENTS BASED ON THE STARTER OPERATION MODE AND SPECIFIED CONTROLS.
- KEY NOTES:**
1. ONLY THE FOLLOWING NETWORK POINTS ARE TO BE IMPLEMENTED:
    - A. OVERLOAD ALARM
  2. PCM-1740.



- TAG → LOOP
- \* = 1741 → CVA-1741 SOUTH SCREW CONVEYOR
  - \* = 1741 → CV-1741 NORTH SHAFTLESS SCREW CONVEYOR
  - \* = 1742 → CV-1742 FLAT BELT CONVEYOR

**6 CONTROL SCHEMATIC**

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CHECKED JGB
DATE JUNE 2024

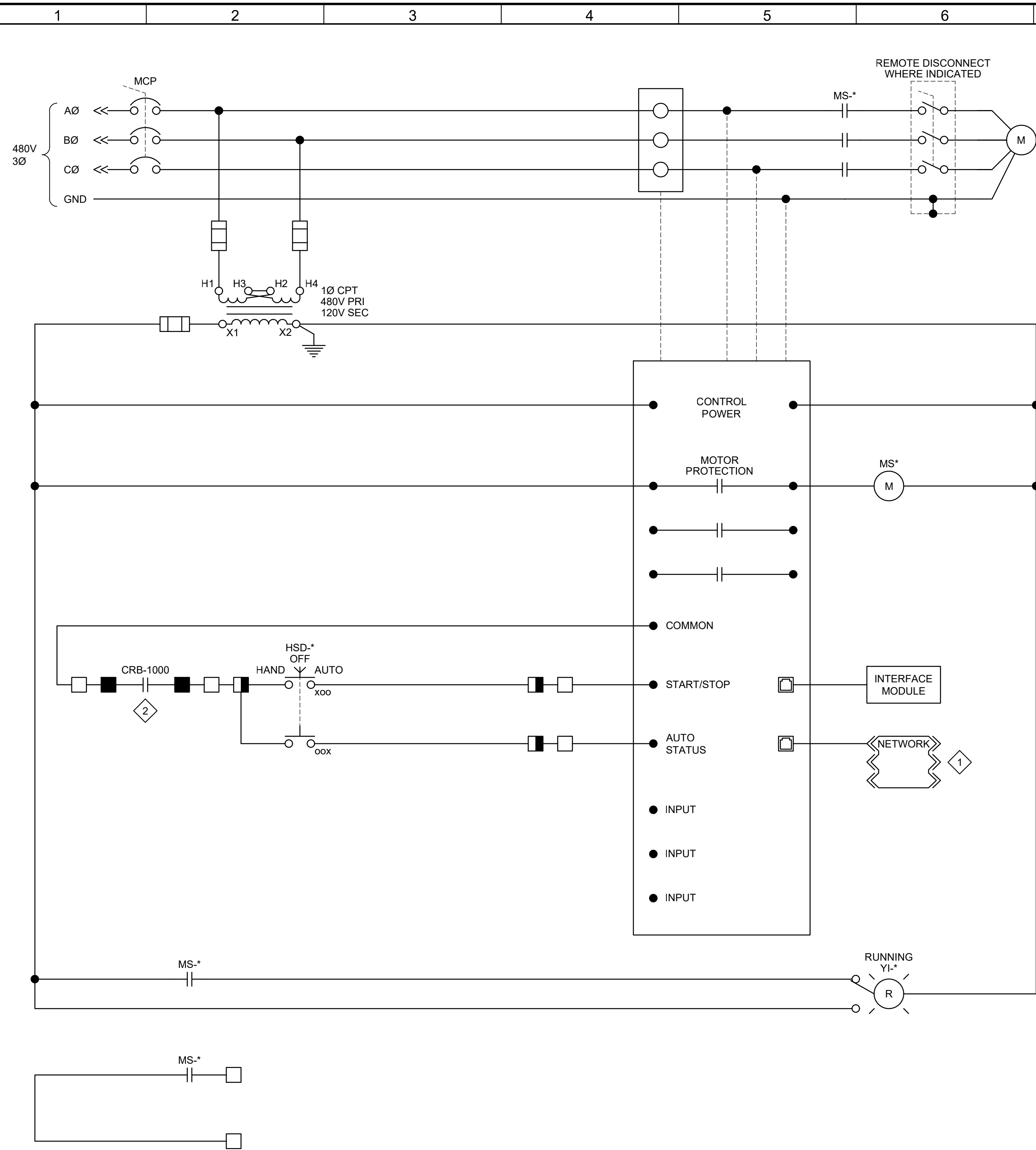


**SV South Valley**  
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SOUTH VALLEY WATER RECLAMATION  
MCC REPLACEMENT PROJECT  
INSTRUMENTATION  
**CONTROL SCHEMATICS 6**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 202633
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. <b>IS-06</b>
	SHEET NO. 50 OF 57





- GENERAL NOTES:**
1. THE SCHEMATIC SHOWS FUNCTIONALITY. REVISE THE SCHEMATIC AS REQUIRED TO PERFORM THE OPERATION INDICATED HERE AND DESCRIBED IN THE SPECIFICATIONS BASED ON THE SELECTED MANUFACTURER.
  2. THE NUMBER OF INPUTS AND OUTPUTS MAY VARY BASED ON THE SELECTED MANUFACTURER.
  3. THE I/O POINTS ARE IDENTIFIED BY FUNCTION. USE THE MANUFACTURER'S DEFAULT ASSIGNMENTS BASED ON THE STARTER OPERATION MODE AND SPECIFIED CONTROLS.
- KEY NOTES:**
1. ONLY THE FOLLOWING NETWORK POINTS ARE TO BE IMPLEMENTED:
    - A. START/STOP COMMAND
    - B. AUTO STATUS
    - C. RUN STATUS
    - D. OVERLOAD ALARM
  2. SMOKE DETECTOR INTERLOCK FROM PCM.

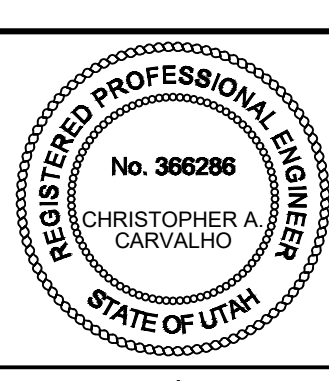
TAG → LOOP  
 \* = 1005 → SUFA-1005  
 \* = 1005 → SUFB-1005  
 \* = 1005 → SUFC-1005

**7 SOLIDS TRANSFER FANS CONTROL SCHEMATIC**

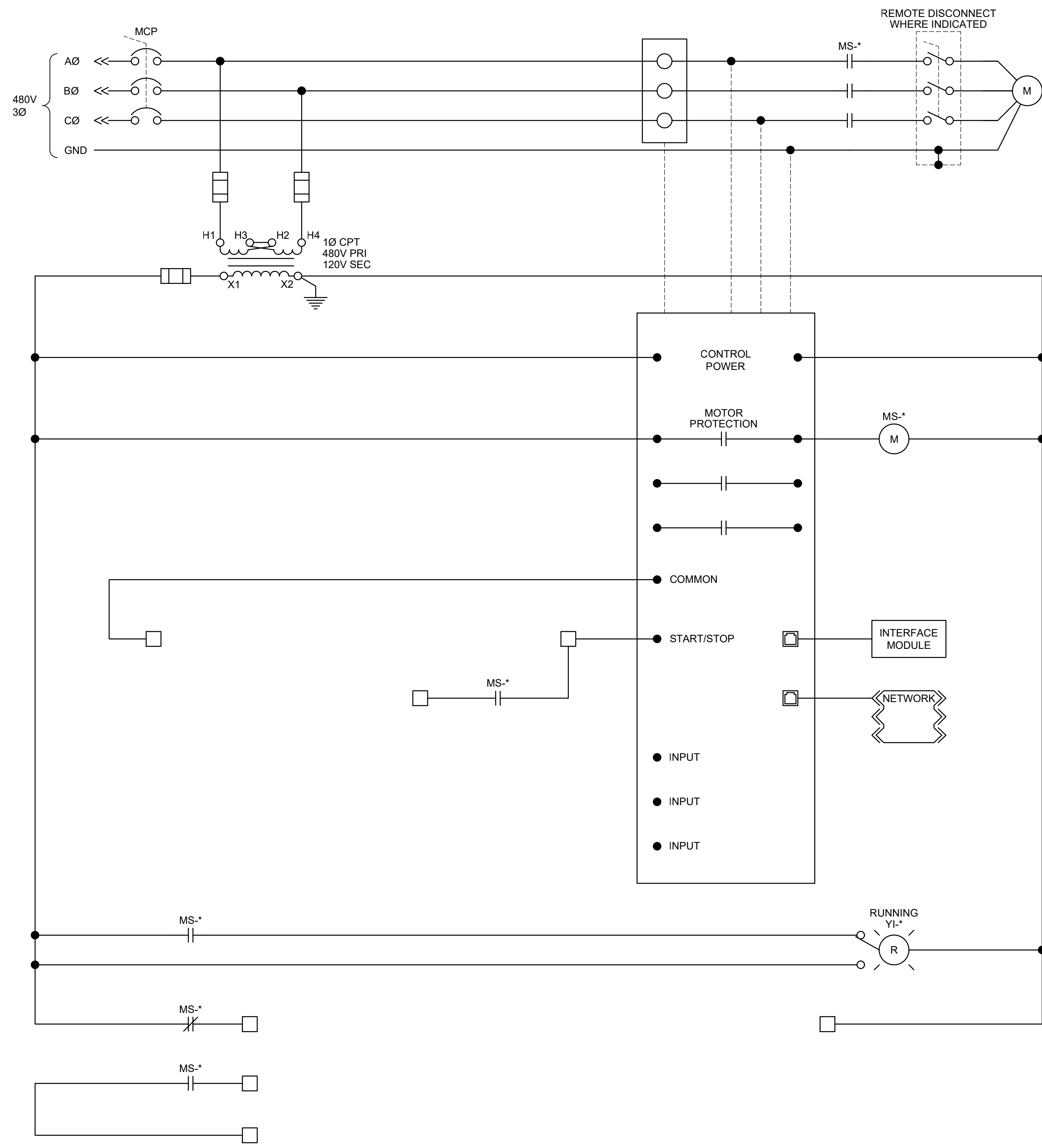
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 CHECKED  
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 DATE  
JUNE 2024



SOUTH VALLEY WATER RECLAMATION MCC REPLACEMENT PROJECT INSTRUMENTATION CONTROL SCHEMATICS 7		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202633 DRAWING NO. <b>IS-07</b> SHEET NO. 51 OF 57
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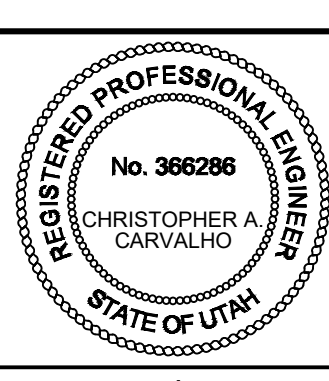
- GENERAL NOTES:**
1. THE SCHEMATIC SHOWS FUNCTIONALITY. REVISE THE SCHEMATIC AS REQUIRED TO PERFORM THE OPERATION INDICATED HERE AND DESCRIBED IN THE SPECIFICATIONS BASED ON THE SELECTED MANUFACTURER.
  2. THE NUMBER OF INPUTS AND OUTPUTS MAY VARY BASED ON THE SELECTED MANUFACTURER.
  3. THE I/O POINTS ARE IDENTIFIED BY FUNCTION. USE THE MANUFACTURER'S DEFAULT ASSIGNMENTS BASED ON THE STARTER OPERATION MODE AND SPECIFIED CONTROLS.

**SPARE STARTER**  
**8 CONTROL SCHEMATIC**

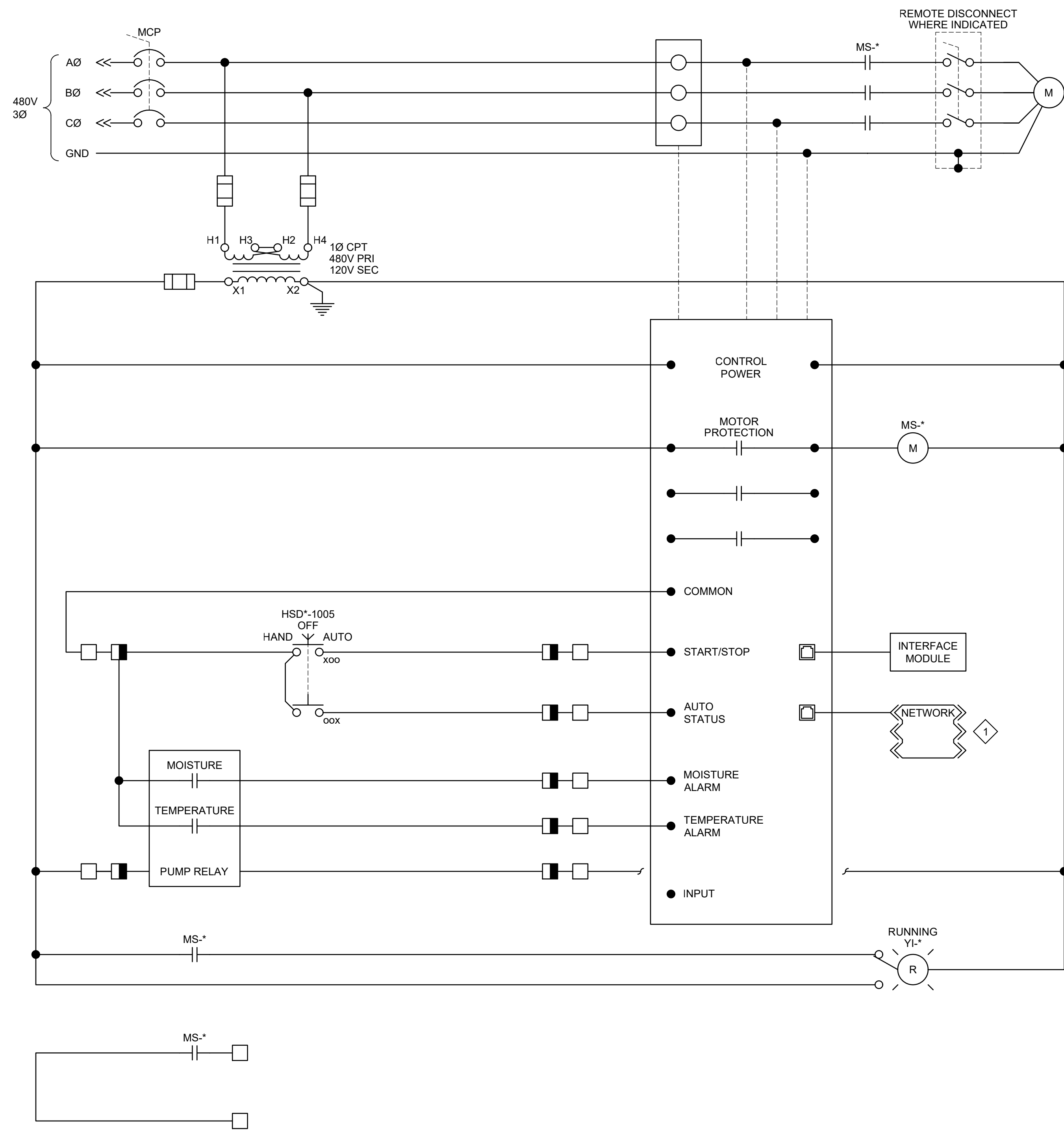
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DATE JUNE 2024



SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 202633
MCC REPLACEMENT PROJECT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. IS-08
INSTRUMENTATION		0 1"	SHEET NO.
CONTROL SCHEMATICS 8		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	52 OF 57



- GENERAL NOTES:**
1. THE SCHEMATIC SHOWS FUNCTIONALITY. REVISE THE SCHEMATIC AS REQUIRED TO PERFORM THE OPERATION INDICATED HERE AND DESCRIBED IN THE SPECIFICATIONS BASED ON THE SELECTED MANUFACTURER.
  2. THE NUMBER OF INPUTS AND OUTPUTS MAY VARY BASED ON THE SELECTED MANUFACTURER.
  3. THE I/O POINTS ARE IDENTIFIED BY FUNCTION. USE THE MANUFACTURER'S DEFAULT ASSIGNMENTS BASED ON THE STARTER OPERATION MODE AND SPECIFIED CONTROLS.
- KEY NOTES:**
1. ONLY THE FOLLOWING NETWORK POINTS ARE TO BE IMPLEMENTED:
    - A. START/STOP COMMAND
    - B. AUTO STATUS
    - C. RUN STATUS
    - D. OVERLOAD ALARM
    - E. MOISTURE ALARM
    - F. TEMPERATURE ALARM

**RECIRCULATION PUMP**  
**9 CONTROL SCHEMATIC**

EQUIPMENT  
M-RP

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REV	DATE	BY	DESCRIPTION

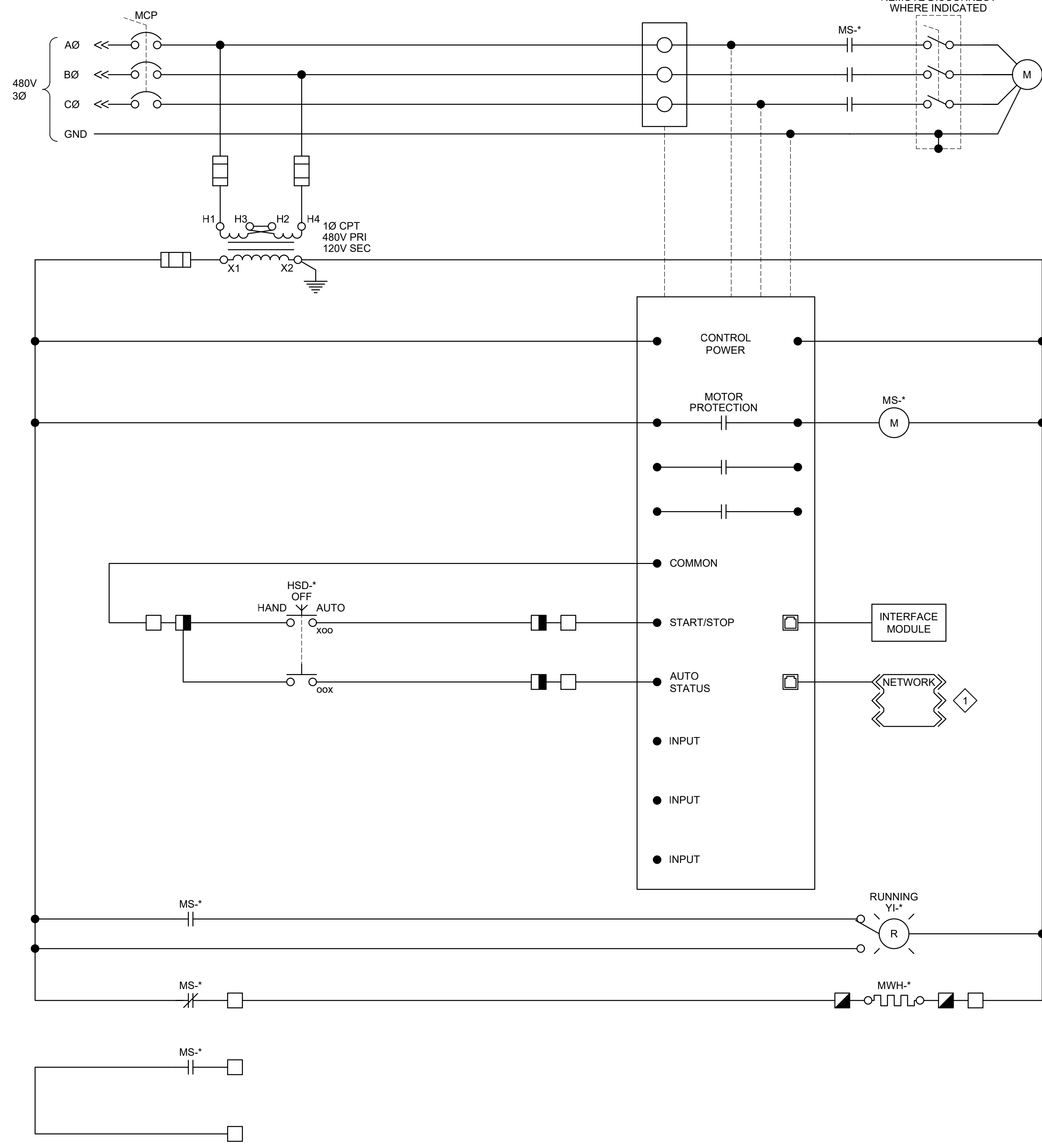
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 7495 South 1300 West  
 West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION  
 MCC REPLACEMENT PROJECT  
 INSTRUMENTATION  
**CONTROL SCHEMATICS 9**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 202633
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. <b>IS-09</b>
	SHEET NO. 53 OF 57



REMOTE DISCONNECT WHERE INDICATED

- GENERAL NOTES:**
1. THE SCHEMATIC SHOWS FUNCTIONALITY. REVISE THE SCHEMATIC AS REQUIRED TO PERFORM THE OPERATION INDICATED HERE AND DESCRIBED IN THE SPECIFICATIONS BASED ON THE SELECTED MANUFACTURER.
  2. THE NUMBER OF INPUTS AND OUTPUTS MAY VARY BASED ON THE SELECTED MANUFACTURER.
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- KEY NOTES:**
1. ONLY THE FOLLOWING NETWORK POINTS ARE TO BE IMPLEMENTED:
    - A. START/STOP COMMAND
    - B. AUTO STATUS
    - C. RUN STATUS
    - D. OVERLOAD ALARM

EQUIPMENT  
BOOSTER FAN BF-1

**BOOSTER FAN**  
**10 CONTROL SCHEMATIC**

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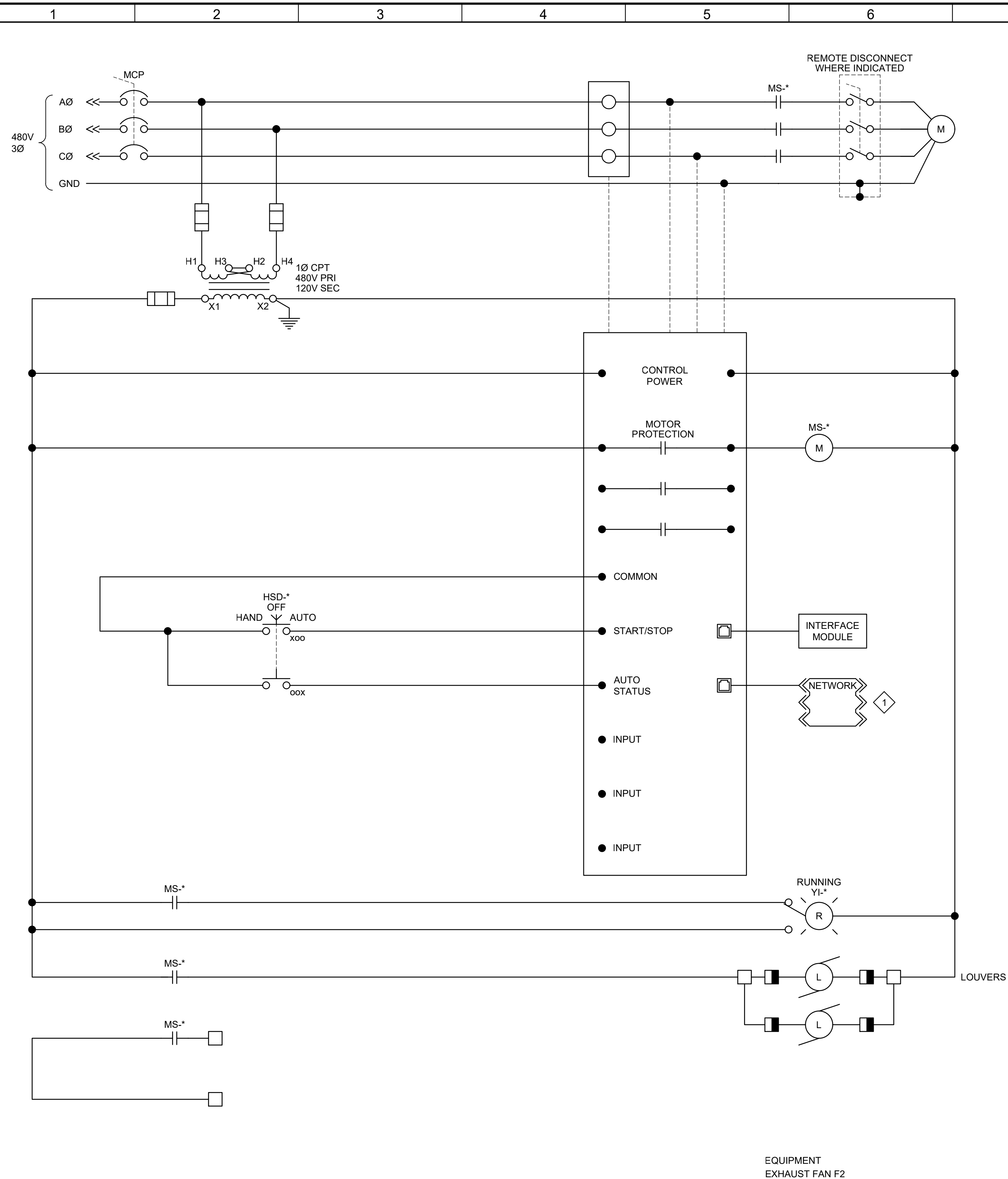
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SOUTH VALLEY WATER RECLAMATION  
MCC REPLACEMENT PROJECT  
INSTRUMENTATION  
**CONTROL SCHEMATICS 10**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 202633
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. <b>IS-10</b>
	SHEET NO. 54 OF 57



- GENERAL NOTES:**
1. THE SCHEMATIC SHOWS FUNCTIONALITY. REVISE THE SCHEMATIC AS REQUIRED TO PERFORM THE OPERATION INDICATED HERE AND DESCRIBED IN THE SPECIFICATIONS BASED ON THE SELECTED MANUFACTURER.
  2. THE NUMBER OF INPUTS AND OUTPUTS MAY VARY BASED ON THE SELECTED MANUFACTURER.
  3. THE I/O POINTS ARE IDENTIFIED BY FUNCTION. USE THE MANUFACTURER'S DEFAULT ASSIGNMENTS BASED ON THE STARTER OPERATION MODE AND SPECIFIED CONTROLS.
- KEY NOTES:**
1. ONLY THE FOLLOWING NETWORK POINTS ARE TO BE IMPLEMENTED:
    - A. START/STOP COMMAND
    - B. AUTO STATUS
    - C. RUN STATUS
    - D. OVERLOAD ALARM

**UTILITY WATER BUILDING EXHAUST FAN**  
**11 CONTROL SCHEMATIC**

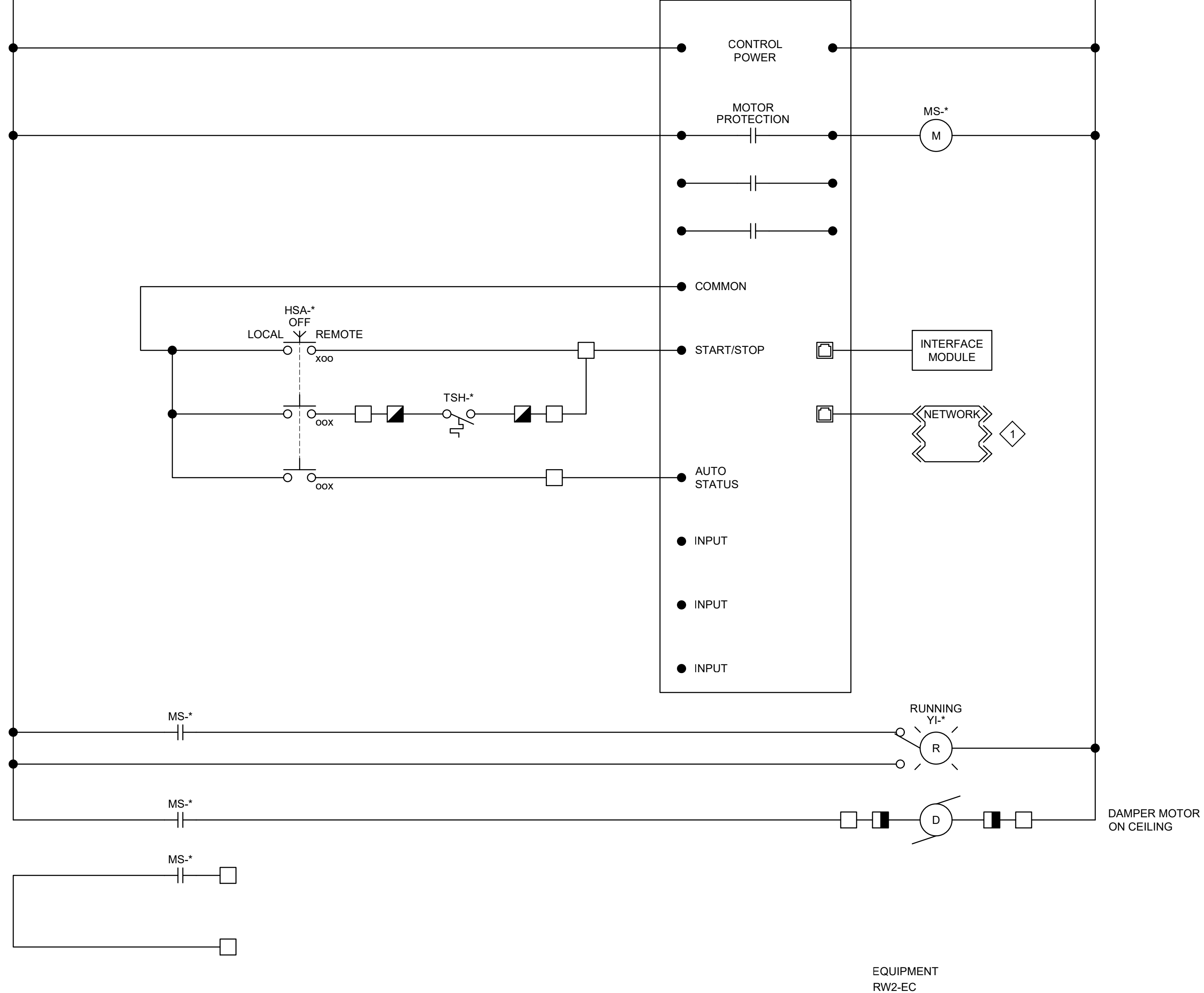
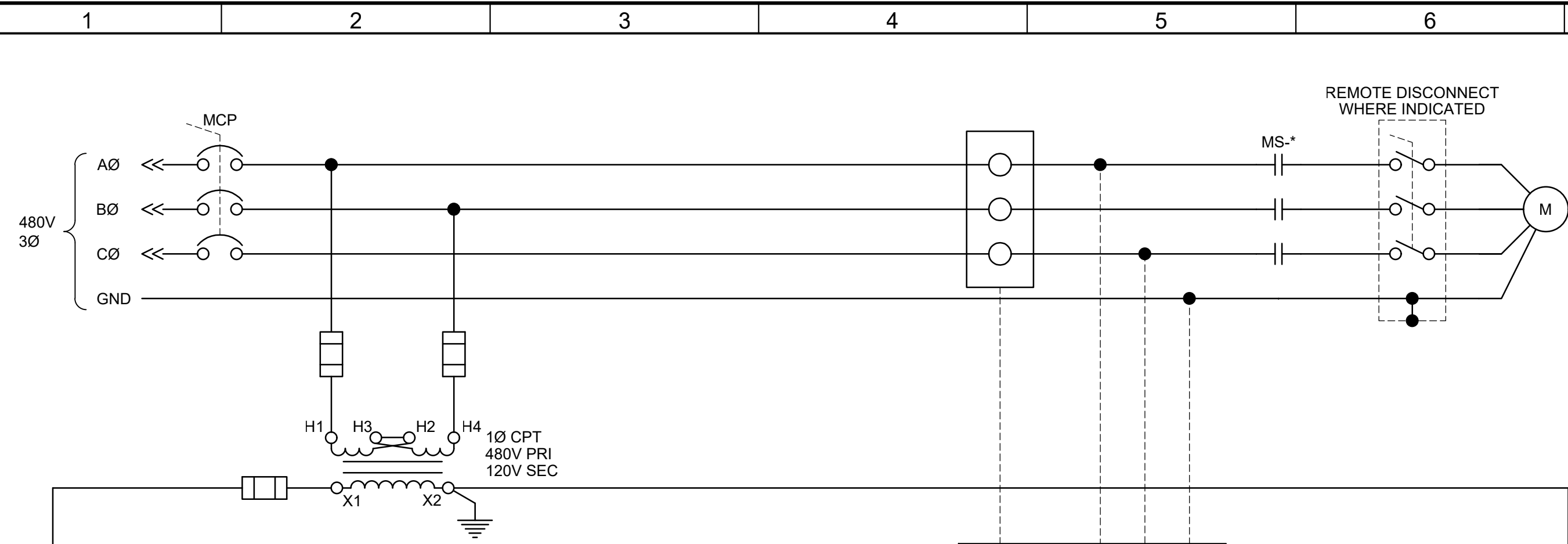
LAST SAVED BY: CYoung

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SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 202633
MCC REPLACEMENT PROJECT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. <b>IS-11</b>
INSTRUMENTATION		0  1"	SHEET NO.
<b>CONTROL SCHEMATICS 11</b>		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	55 OF 57



- GENERAL NOTES:**
1. THE SCHEMATIC SHOWS FUNCTIONALITY. REVISE THE SCHEMATIC AS REQUIRED TO PERFORM THE OPERATION INDICATED HERE AND DESCRIBED IN THE SPECIFICATIONS BASED ON THE SELECTED MANUFACTURER.
  2. THE NUMBER OF INPUTS AND OUTPUTS MAY VARY BASED ON THE SELECTED MANUFACTURER.
  3. THE I/O POINTS ARE IDENTIFIED BY FUNCTION. USE THE MANUFACTURER'S DEFAULT ASSIGNMENTS BASED ON THE STARTER OPERATION MODE AND SPECIFIED CONTROLS.
- KEY NOTES:**
1. ONLY THE FOLLOWING NETWORK POINTS ARE TO BE IMPLEMENTED:
    - A. AUTO STATUS
    - B. RUN STATUS
    - C. OVERLOAD ALARM

**EVAP COOLER**  
**12 CONTROL SCHEMATIC**

LAST SAVED BY: CYoung

REV	DATE	BY	DESCRIPTION

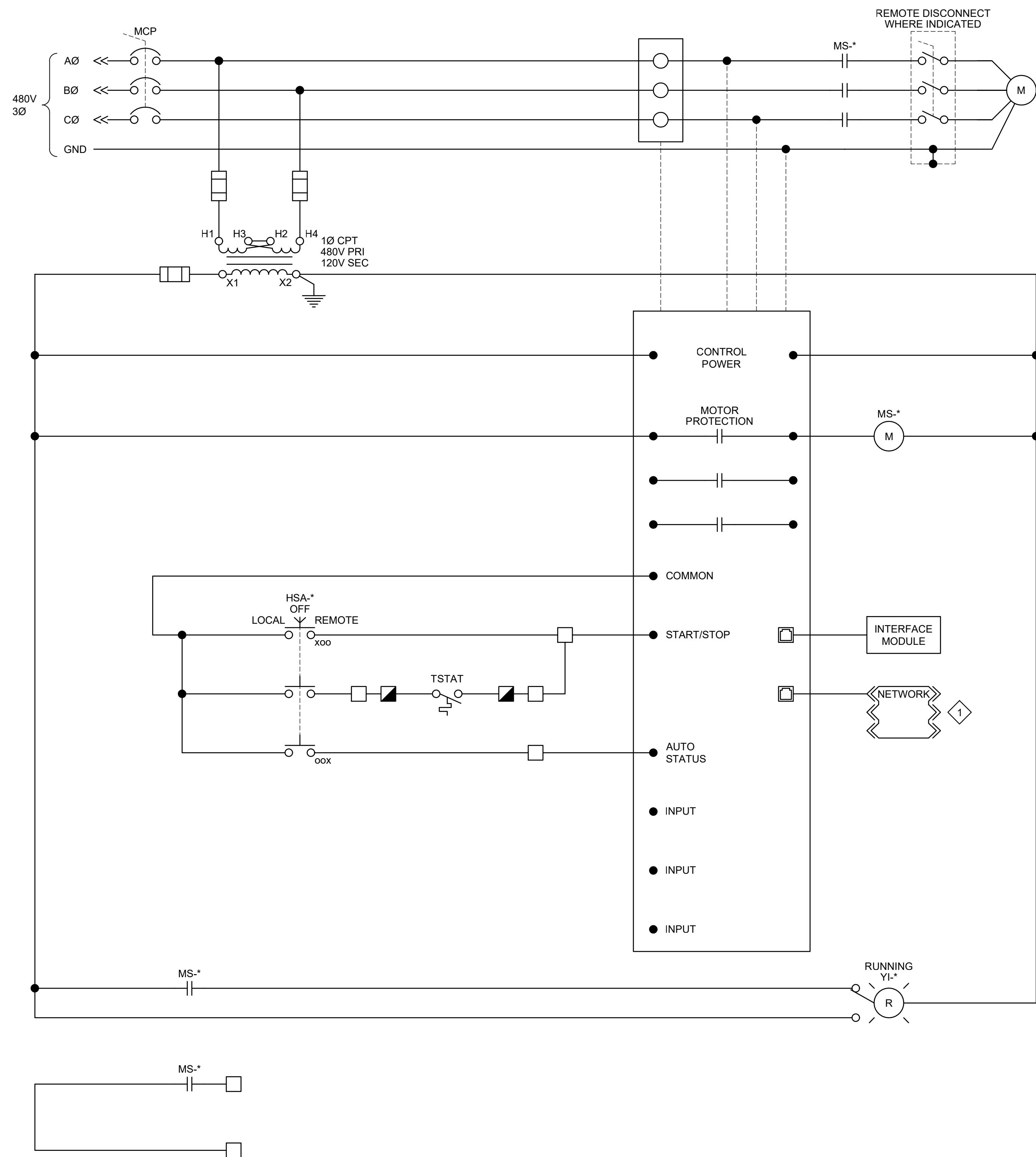
DESIGNED  
CAC  
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CGR  
 CHECKED  
JGB  
 DATE  
JUNE 2024



**SV South Valley**  
 WATER RECLAMATION FACILITY  
 7495 South 1300 West  
 West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION  
 MCC REPLACEMENT PROJECT  
 INSTRUMENTATION  
**CONTROL SCHEMATICS 12**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 202633
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. <b>IS-12</b>
	SHEET NO. 56 OF 57



**GENERAL NOTES:**

1. THE SCHEMATIC SHOWS FUNCTIONALITY. REVISE THE SCHEMATIC AS REQUIRED TO PERFORM THE OPERATION INDICATED HERE AND DESCRIBED IN THE SPECIFICATIONS BASED ON THE SELECTED MANUFACTURER.
2. THE NUMBER OF INPUTS AND OUTPUTS MAY VARY BASED ON THE SELECTED MANUFACTURER.
3. THE I/O POINTS ARE IDENTIFIED BY FUNCTION. USE THE MANUFACTURER'S DEFAULT ASSIGNMENTS BASED ON THE STARTER OPERATION MODE AND SPECIFIED CONTROLS.

**KEY NOTES:**

1. ONLY THE FOLLOWING NETWORK POINTS ARE TO BE IMPLEMENTED:
  - A. AUTO STATUS
  - B. RUN STATUS
  - C. OVERLOAD ALARM

EQUIPMENT  
UTILITY WATER PUMP STATION A/C FAN UNIT

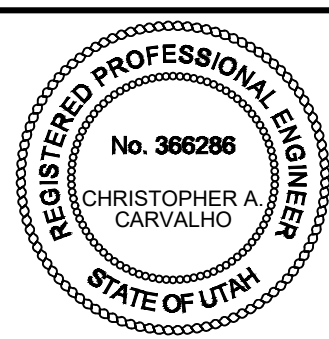
AC FANS AND HVAC UNITS

**13 CONTROL SCHEMATIC**

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SOUTH VALLEY WATER RECLAMATION  
MCC REPLACEMENT PROJECT  
INSTRUMENTATION  
**CONTROL SCHEMATICS 13**

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
202633  
DRAWING NO.  
**IS-13**  
SHEET NO.  
57 OF 57