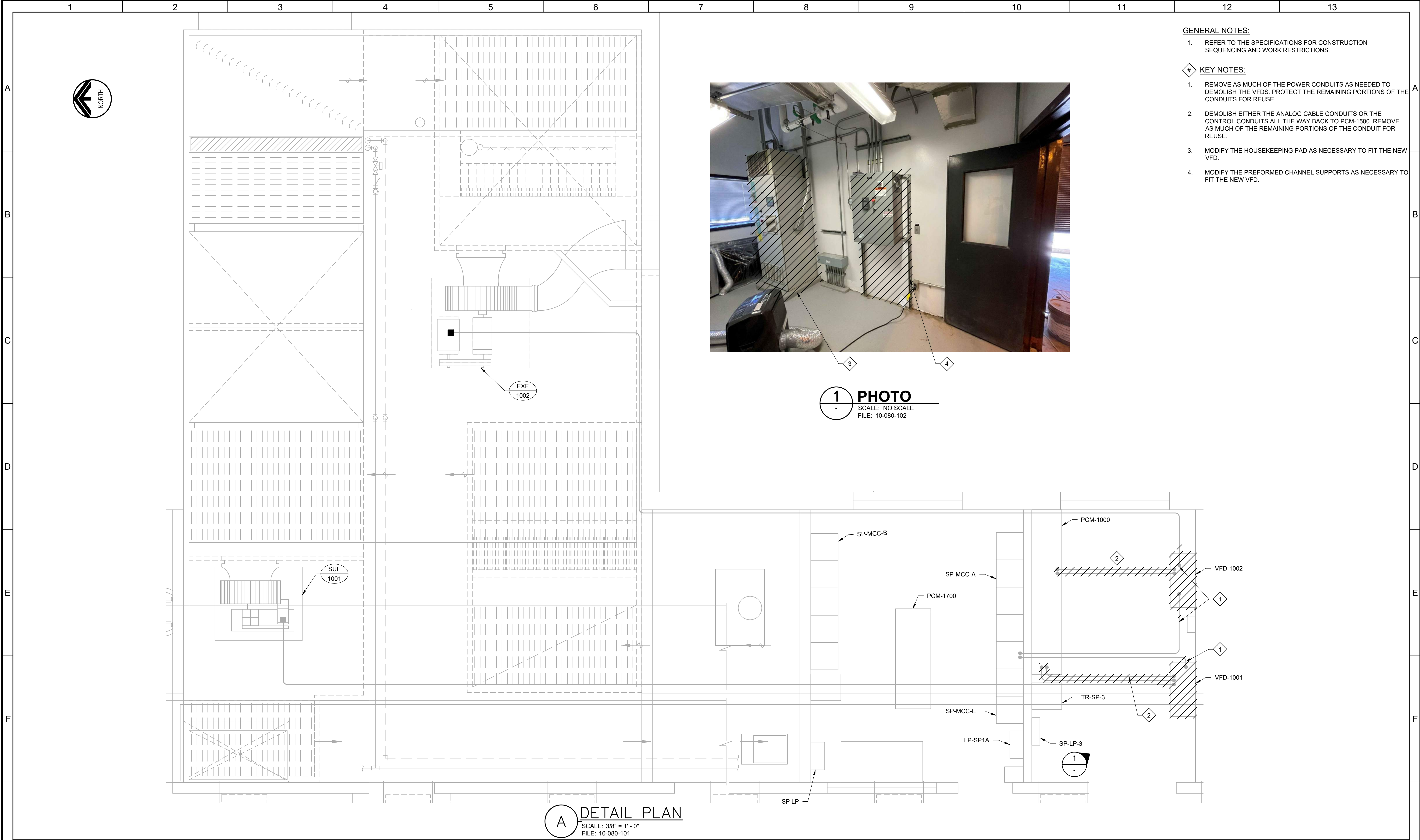
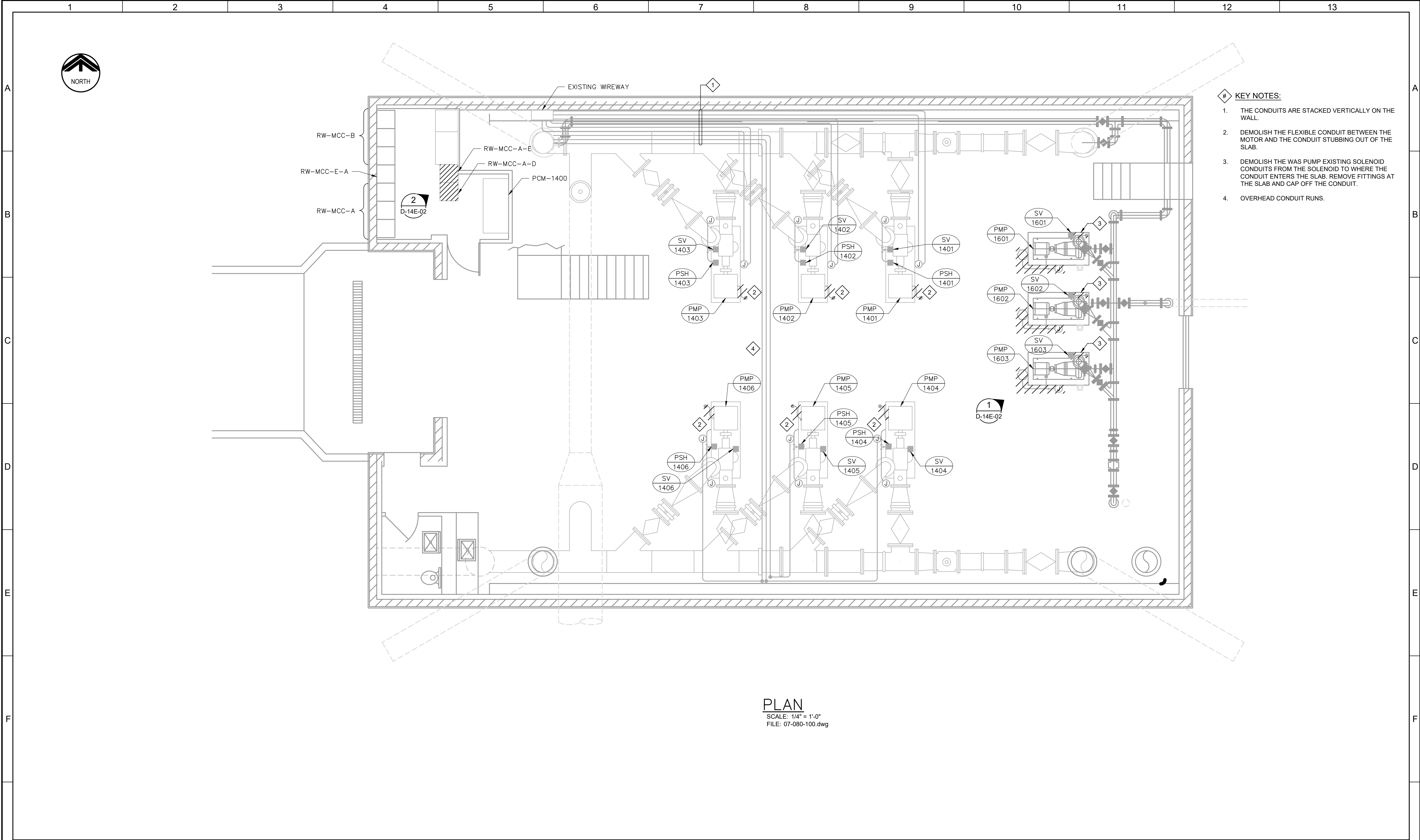




- GENERAL NOTES:**
- REFER TO THE SPECIFICATIONS FOR CONSTRUCTION SEQUENCING AND WORK RESTRICTIONS.
- KEY NOTES:**
- REMOVE AS MUCH OF THE POWER CONDUITS AS NEEDED TO DEMOLISH THE VFDs. PROTECT THE REMAINING PORTIONS OF THE CONDUITS FOR REUSE.
 - DEMOLISH EITHER THE ANALOG CABLE CONDUITS OR THE CONTROL CONDUITS ALL THE WAY BACK TO PCM-1500. REMOVE AS MUCH OF THE REMAINING PORTIONS OF THE CONDUIT FOR REUSE.
 - MODIFY THE HOUSEKEEPING PAD AS NECESSARY TO FIT THE NEW VFD.
 - MODIFY THE PREFORMED CHANNEL SUPPORTS AS NECESSARY TO FIT THE NEW VFD.



- # KEY NOTES:
1. THE CONDUITS ARE STACKED VERTICALLY ON THE WALL.
 2. DEMOLISH THE FLEXIBLE CONDUIT BETWEEN THE MOTOR AND THE CONDUIT STUBBING OUT OF THE SLAB.
 3. DEMOLISH THE WAS PUMP EXISTING SOLENOID CONDUITS FROM THE SOLENOID TO WHERE THE CONDUIT ENTERS THE SLAB. REMOVE FITTINGS AT THE SLAB AND CAP OFF THE CONDUIT.
 4. OVERHEAD CONDUIT RUNS.

PLAN
SCALE: 1/4" = 1'-0"
FILE: 07-080-100.dwg

REV				DESIGNED CAC						SOUTH VALLEY WATER RECLAMATION				VERIFY SCALES		JOB NO. 201238
				DRAWN TLM						2023 VFD REPLACEMENT				BAR IS ONE INCH ON ORIGINAL DRAWING		DRAWING NO.
				CHECKED CLL						ELECTRICAL				0 1"		D-14E-01
				DATE JULY 2023						RAS/WAS BUILDING #1 LOWER LEVEL DEMOLITION PLAN				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		SHEET NO.
1				2	3	4	5	6	7	8	9	10	11	12	13	39 OF 116
PROJECT NO. 201238-100000 FILE NAME: D-14E-01.dwg																

LAST SAVED BY: tncrablio

KEY NOTES:

1. DEMOLISH THE EXISTING CONTROL PANEL, ALL EXPOSED CONDUIT, THE MOUNTING STAND AND THE JUNCTION BOX. DEMOLISH ALL WIRE BACK TO THE SOURCE CUT FLUSH AND GROUT ALL CONDUITS.
2. DEMOLISH THE MCC SECTIONS. CUT FLUSH AND GROUT ALL CONDUITS STUBBING UP OUT OF THE SLAB.
3. SALVAGE THE VFDS TO THE OWNER.



1 PHOTO
- SCALE: NO SCALE
FILE: 07-080-201 PHOTO 1



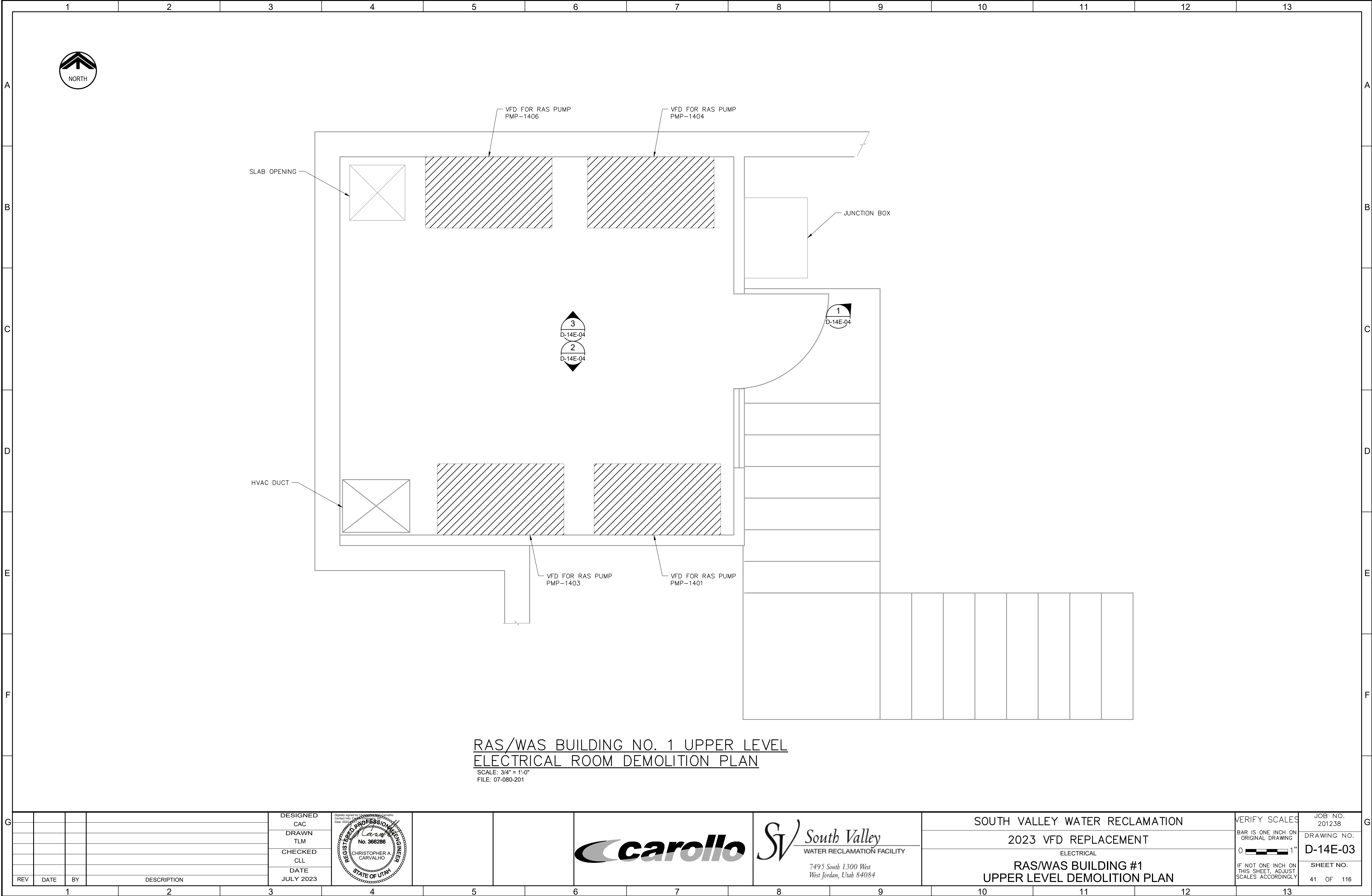
2

2 PHOTO

SCALE: NO SCALE

FILE: 07-080-201 PHOTO 2

G					DESIGNED CAC	Digitally signed by Christopher A. Carvalho Contact Info Email: chrcarv@carollo.com 	  7495 South 1300 West West Jordan, Utah 84084	SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238		
					DRAWN DB					2023 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
					CHECKED CLL					ELECTRICAL		0  1"	D-14E-02
					DATE JULY 2023					RAS/WAS BUILDING #1 LOWER LEVEL DEMOLITION DETAILS		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
	REV	DATE	BY		DESCRIPTION								40 OF 116



RAS/WAS BUILDING NO. 1 UPPER LEVEL
ELECTRICAL ROOM DEMOLITION PLAN

SCALE: 3/4" = 1'-0"
FILE: 07-080-201

REV	DATE	BY	DESCRIPTION

DESIGNED CAC
DRAWN TLM
CHECKED CLL
DATE JULY 2023

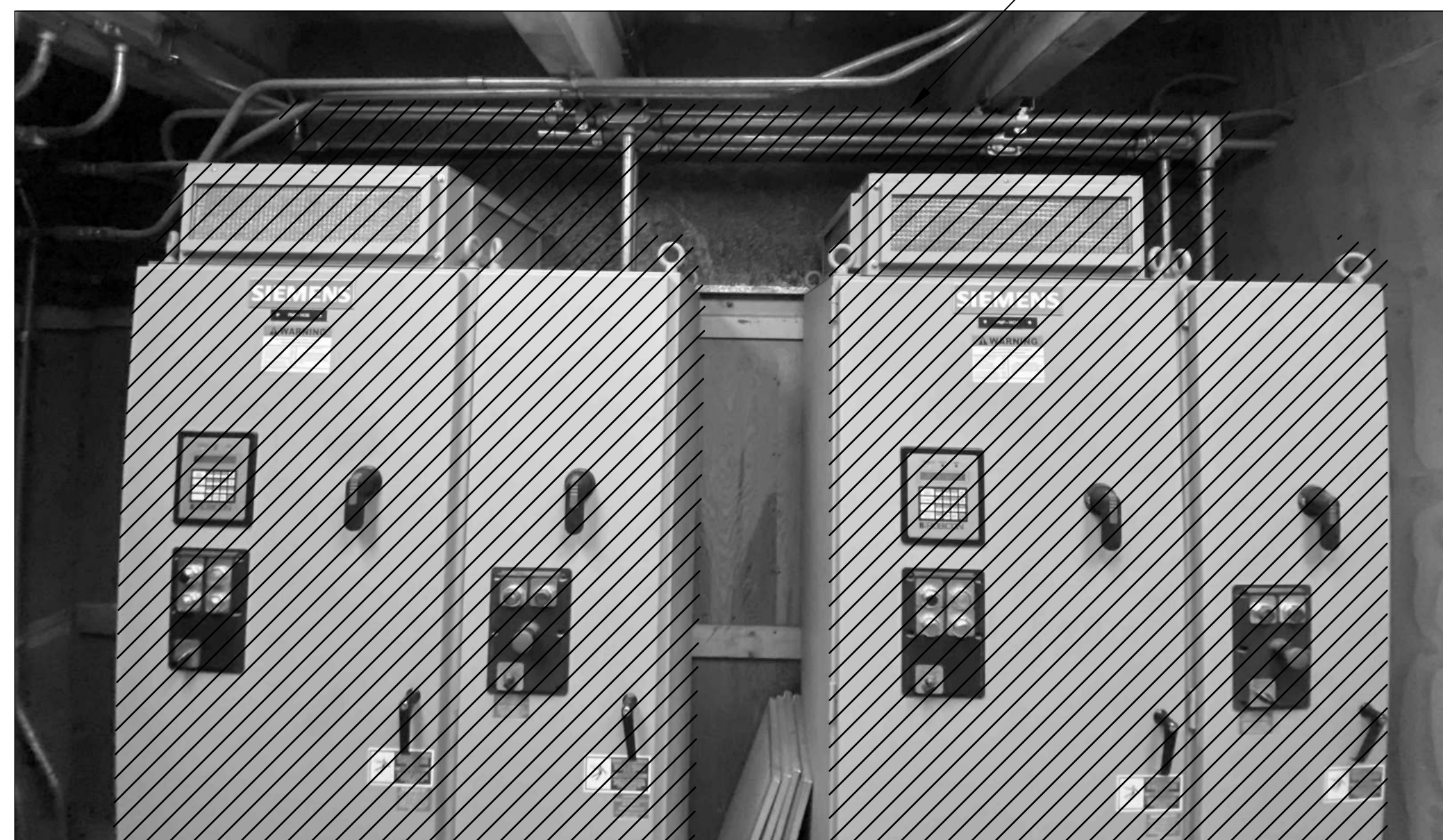


SV South Valley
WATER RECLAMATION FACILITY
7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
ELECTRICAL
RAS/WAS BUILDING #1 UPPER LEVEL DEMOLITION PLAN

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

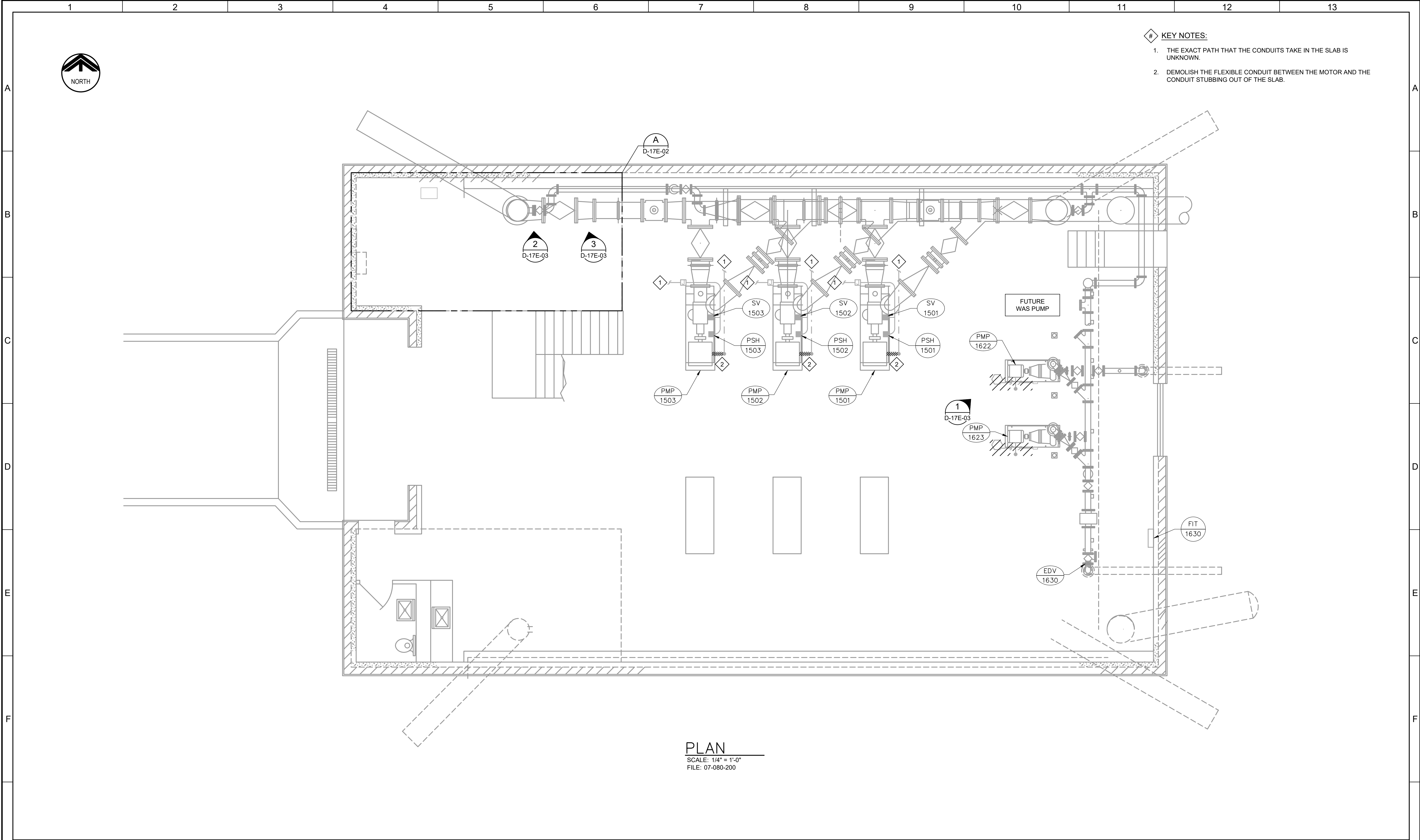
JOB NO. 201238
DRAWING NO. D-14E-03
SHEET NO. 41 OF 116



- # KEY NOTES:**

 1. CONTROL AND SIGNAL JUNCTION BOX.
 2. SPARE CONDUITS TO THE SOUTH SIDE RAS PUMPS PMP-1404, PMP-1405 AND PMP-1406. DEMOLISH ENOUGH OF THE CONDUITS TO ALL THEM TO BE REROUTED TO THE NEW VFDS.
 3. PORTIONS OF THE EXISTING SIGNAL OR CONTROL CONDUITS MAY BE RE USED FOR THE NEW VFD NETWORKS AT THE CONTRACTORS DISCRETION. DEMOLISH ALL CONDUITS THAT WILL NOT BE REUSED.

G					DESIGNED CAC				SOUTH VALLEY WATER RECLAMATION			JOB NO. 201238
					DRAWN TLM				2023 VFD REPLACEMENT			DRAWING NO.
					CHECKED CLL				ELECTRICAL			D-14E-04
					DATE JULY 2023				RAS/WAS BUILDING #1 DEMOLITION DETAILS - 2			SHEET NO.
	REV	DATE	BY	DESCRIPTION								42 OF 116

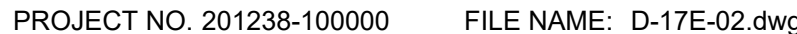


- # KEY NOTES:
1. THE EXACT PATH THAT THE CONDUITS TAKE IN THE SLAB IS UNKNOWN.
 2. DEMOLISH THE FLEXIBLE CONDUIT BETWEEN THE MOTOR AND THE CONDUIT STUBBING OUT OF THE SLAB.

PLAN

SCALE: 1/4" = 1'-0"
FILE: 07-080-200

G					DESIGNED CAC	Digitally signed by Christopher A. Carvalho Contact info: 801-223-1111 Date: 2023.07.03 10:00:00 -0700 				  7495 South 1300 West West Jordan, Utah 84084	SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238	G
					DRAWN TLM		2023 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING		DRAWING NO.				
					CHECKED CLL		ELECTRICAL		0  1"		D-17E-01				
					DATE JULY 2023		RAS/WAS BUILDING #2 LOWER LEVEL DEMOLITION PLAN		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		SHEET NO. 43 OF 116				
	REV	DATE	BY	DESCRIPTION											



1 2 3 4 5 6 7 8 9 10 11 12 13

A

B

C

D

E

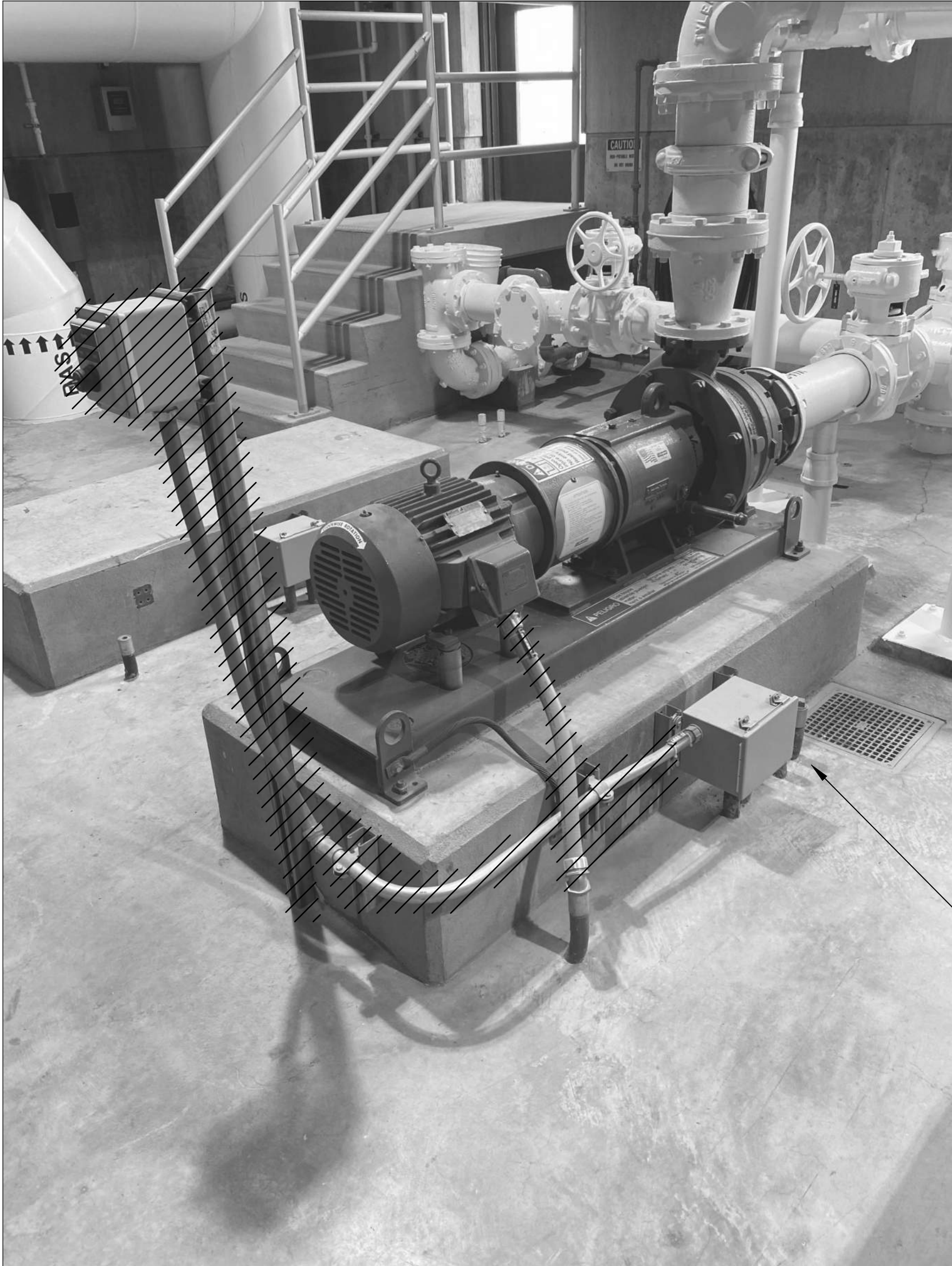
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G

1

PHOTO

D-17E-01 SCALE: NO SCALE
FILE: 07-080-103 PHOTO 1



2

PHOTO

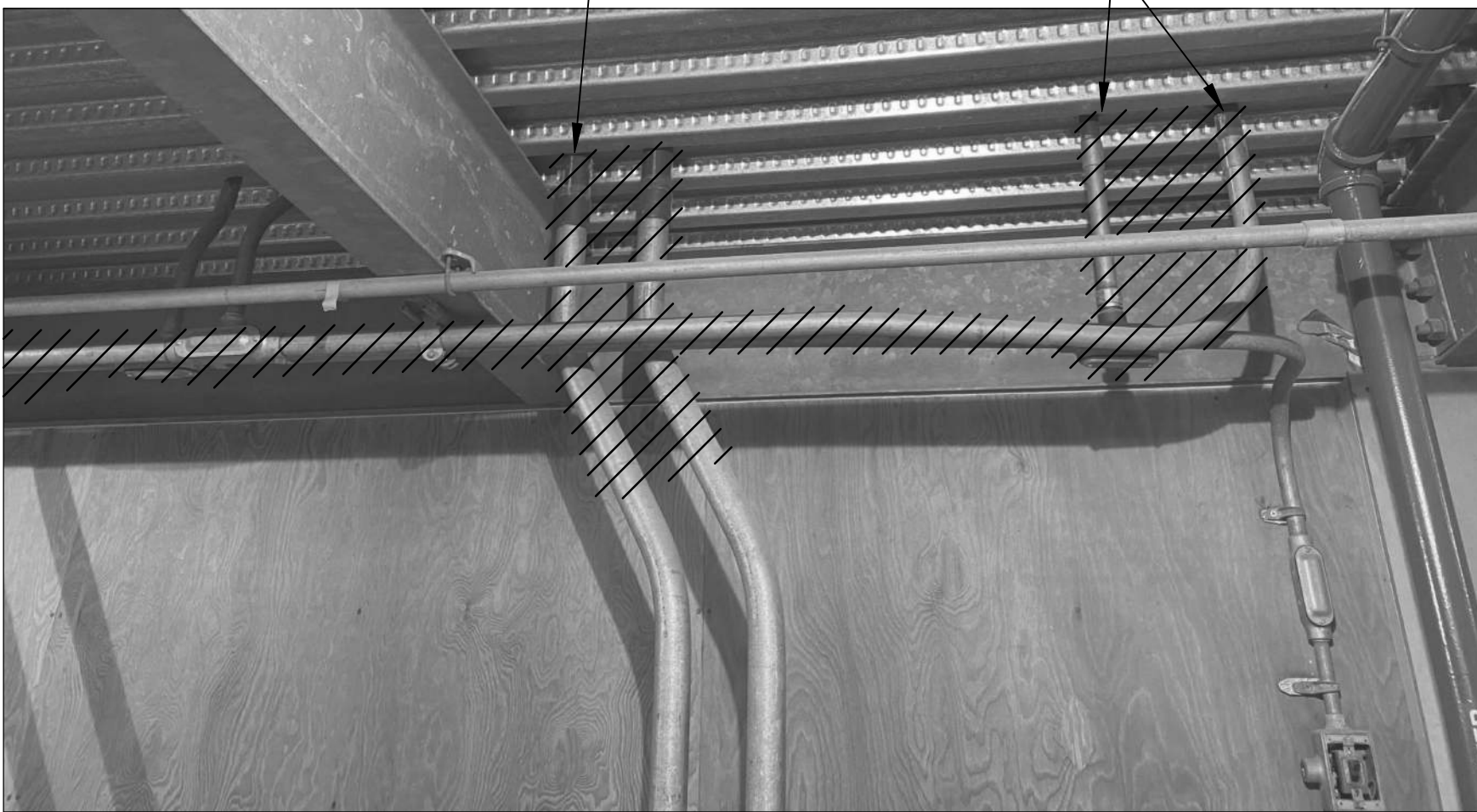
D-17E-01 SCALE: NO SCALE
FILE: 07-080-104 PHOTO 2



3

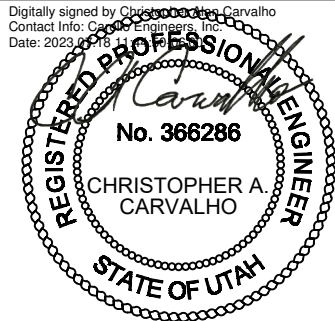
PHOTO

D-17E-01 SCALE: NO SCALE
FILE: 07-080-105 PHOTO 3



KEY NOTES:

1. IDENTIFY THE CONDUIT THAT HAS THE EXISTING POWER WIRING IN IT. DEMOLISH THE POWER CONDUIT AS FAR AS REQUIRED TO MAKE A CONNECTION THE NEW VFD.
2. DEMOLISH THE REMAINING CONDUIT DOWN TO THE FLOOR LEVEL AND CAP OFF.
3. DEMOLISH ALL CONDUCTORS AND THESE EXPOSED CONDUITS FROM THE VFDS TO THE SOURCE, PCM-1500.
4. DEMOLISH THE EXISTING CONTROL PANEL, ALL EXPOSED CONDUIT, AND THE MOUNTING STAND. DEMOLISH ALL WIRE BACK TO THE SOURCE. TYPICAL FOR BOTH PUMPS.

REV	DATE	BY	DESCRIPTION	DESIGNED CAC	DRAWN TLM	CHECKED CLL	DATE JULY 2023				SOUTH VALLEY WATER RECLAMATION 2023 VFD REPLACEMENT ELECTRICAL RAS/WAS BUILDING #2 LOWER LEVEL DEMOLITION DETAILS	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 201238 DRAWING NO. D-17E-03 SHEET NO. 45 OF 116
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PROJECT NO. 201238-100000 FILE NAME: D-17E-03.dwg

1 2 3 4 5 6 7 8 9 10 11 12 13

A

B

C

D

E

F

G

1 PHOTO
D-17E-02
SCALE: NO SCALE
FILE: 07-080-102 PHOTO 1

2 PHOTO
D-17E-02
SCALE: NO SCALE
FILE: 07-080-102 PHOTO 2

GENERAL NOTES:

1. REMOVE ALL CONDUCTORS BETWEEN THE VFDS AND PCM-1500 AND BETWEEN THE VFDS AND RW-DPP-A.
2. CUT-FLUSH AND GROUT CONDUITS THAT WILL BE UNDER ANY NEW VFD. THAT WILL NOT BE RE-USED OR CONDUITS THAT NEED TO BE DEMOLISHED TO ALLOW FOR THE INSTALLATION OF THE NEW VFDS.

KEY NOTES:

1. REMOVE AS MUCH OF THE POWER CONDUITS AS NEEDED TO DEMOLISH THE VFDS. PROTECT THE REMAINING PORTIONS OF THE CONDUITS FOR REUSE.
2. DEMOLISH EITHER THE ANALOG CABLE CONDUITS OR THE CONTROL CONDUITS ALL THE WAY BACK TO PCM-1500. REMOVE AS MUCH TO ALLOW FOR DEMOLITION OF THE VFDS. PROTECT THE REMAINING PORTIONS OF THE CONDUITS FOR REUSE.
3. DEMOLISH THE CONDUIT BETWEEN THE VFDS.
4. DEMOLISH ALL CONDUITS ASSOCIATED WITH THE WAS PUMP VFDS: FROM THE VFDS TO RW-DPP-A, THE VFDS TO PCM-1500 AND THE VFDS TO RW-MCC-C.
5. DEMOLISH THE MOUNTING STAND.

DESIGNED
CAC
DRAWN
TLM
CHECKED
CLL
DATE
JULY 2023

REGISTERED PROFESSIONAL ENGINEER
No. 366286
CHRISTOPHER A. CARVALHO
STATE OF UTAH

carollo

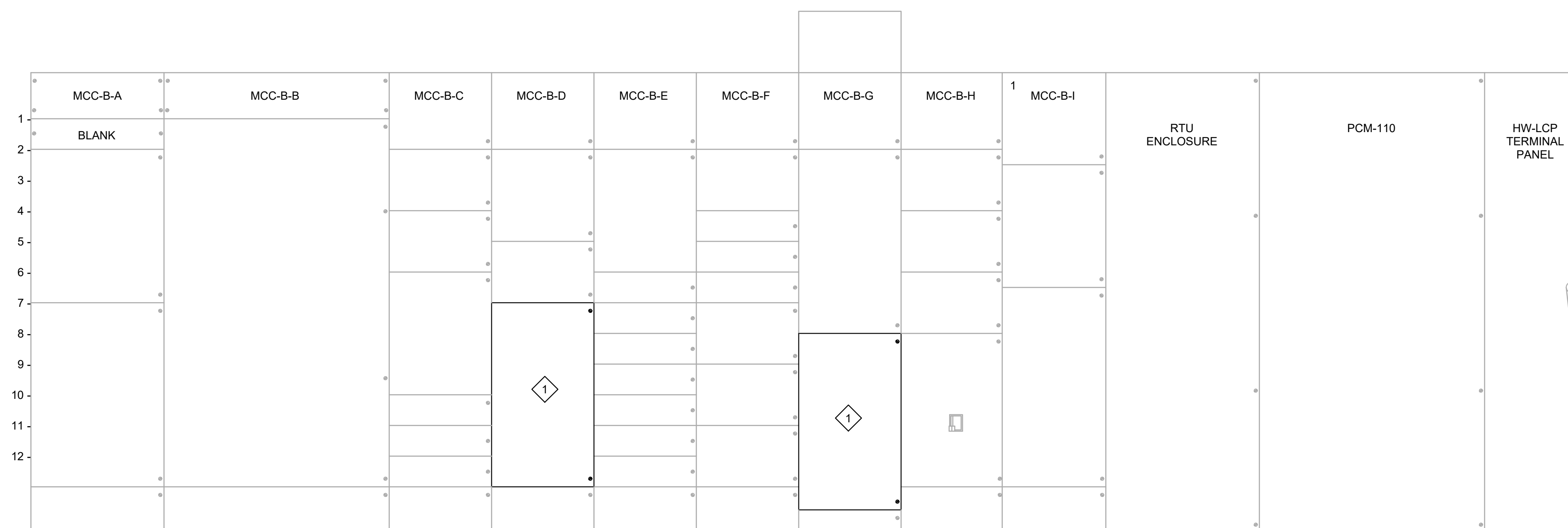
SV South Valley
WATER RECLAMATION FACILITY
7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
ELECTRICAL
RAS/WAS BUILDING #2 UPPER LEVEL
DEMOLITION DETAILS

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

JOB NO.
201238
DRAWING NO.
D-17E-04
SHEET NO.
46 OF 116

PROJECT NO. 201238-100000 FILE NAME: D-17E-04.dwg



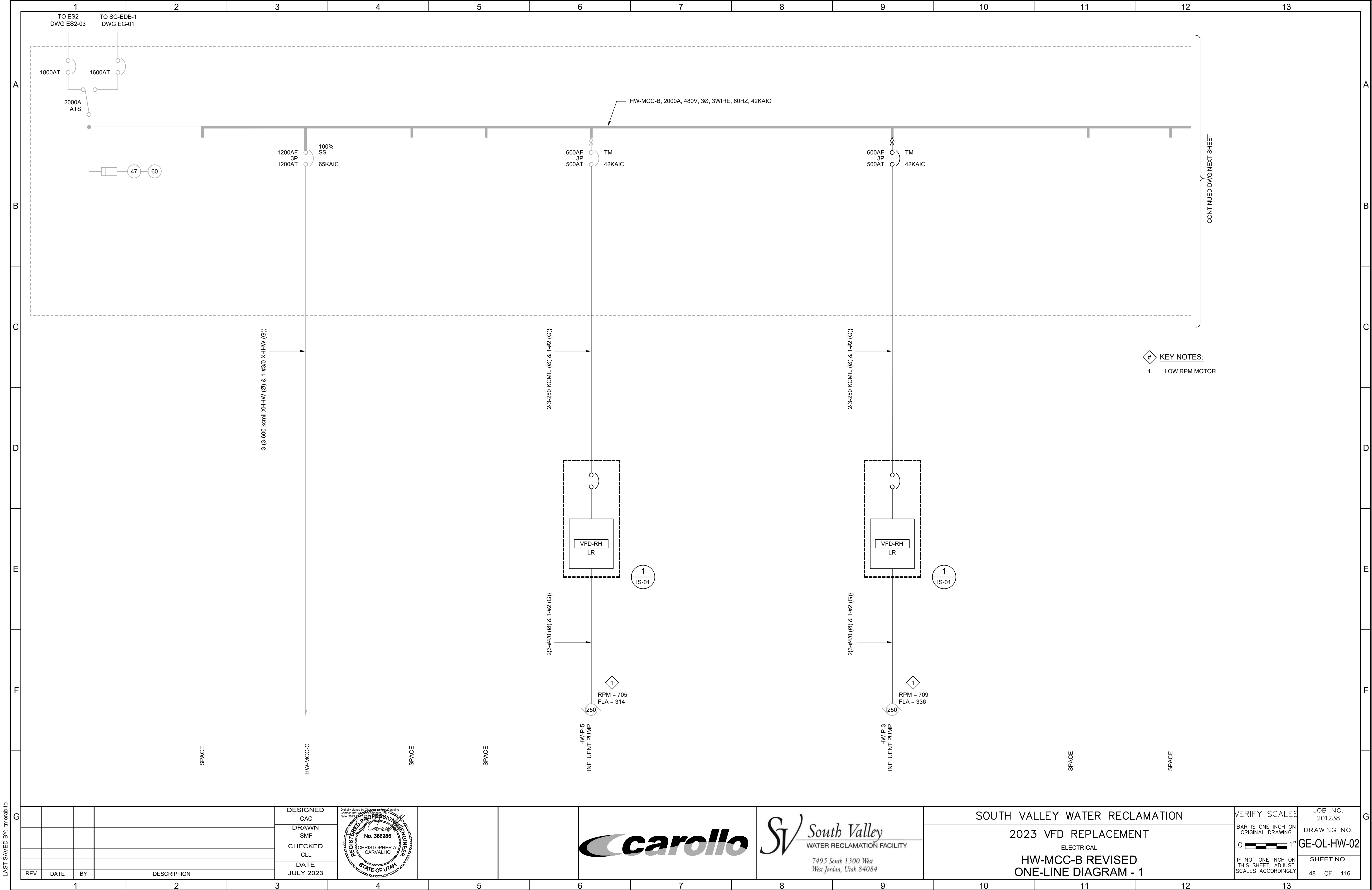
KEY NOTES:

1. SUPPLY NEW CIRCUIT BREAKERS AND INSTALL THEM IN THE COMPARTMENTS INDICATED. SUPPLY NEW DOORS, NAMEPLATES, MOUNTING KITS AND ACCESSORIES AS NEEDED TO COMPLETE THE INSTALLATION.

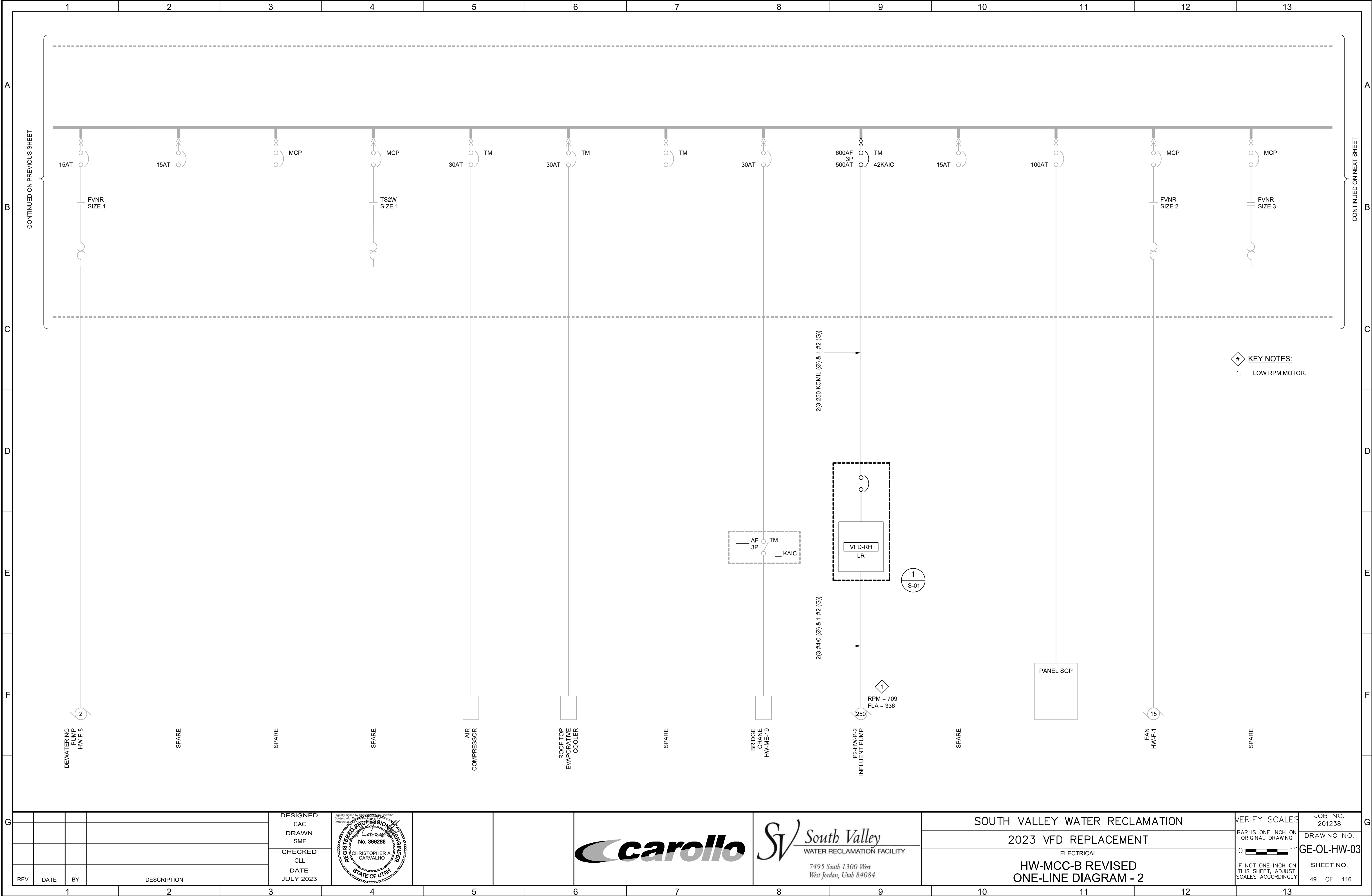
HW-MCC B ELEVATION
SCALE: 3/4" = 1'-0"

A1	-SG-EDB-1	B1	-2000ATS	C2	-HW-P-8 -DEWATERING PUMP	D2	-SPARE	E2	-SPARE	F2	-SPACE	G2	-CONTROL PANEL	H2	-HW-P-101 -SEAL WATER	I2	-SPACE
A7	-ES2-5			C4	-HW-F-1	D5	-HW-F-3 -FAN	E6	-SPARE	F4	-HW-P-9&10 -SUMP PUMPS	G8	-HW-P-3	H4	-HW-P-102 -SEAL WATER	I3	-HW-MCC-C FEEDER
				C6	-SPARE	D7	-HW-P-2	E7	-AIR COMPRESSOR	F5	-SURGE SUPPRESSER			H6	-HW-F-4	I6	-HW-MCC-C -SSCB-100%
				C10	-SPARE			E8	-SPARE	F6	-HW-B-6 -AIR COMPRESSOR			H8	-HW-P-5		
				C11	-ROOF TOP -EVAP COOLER			E9	-PANEL SGB	F7	-HW-F-6 -FAN						
				C12	-SPARE			E10	-HW-ME-19 -BRIDGE CRANE	F9	-HW-P-12 -CIRC. PUMP						
								E11	-O.H. DOOR -POLE LIGHT	F11	-HW-P-11 -CIRC. PUMP						
								E12	-PANEL LP-HW-2								

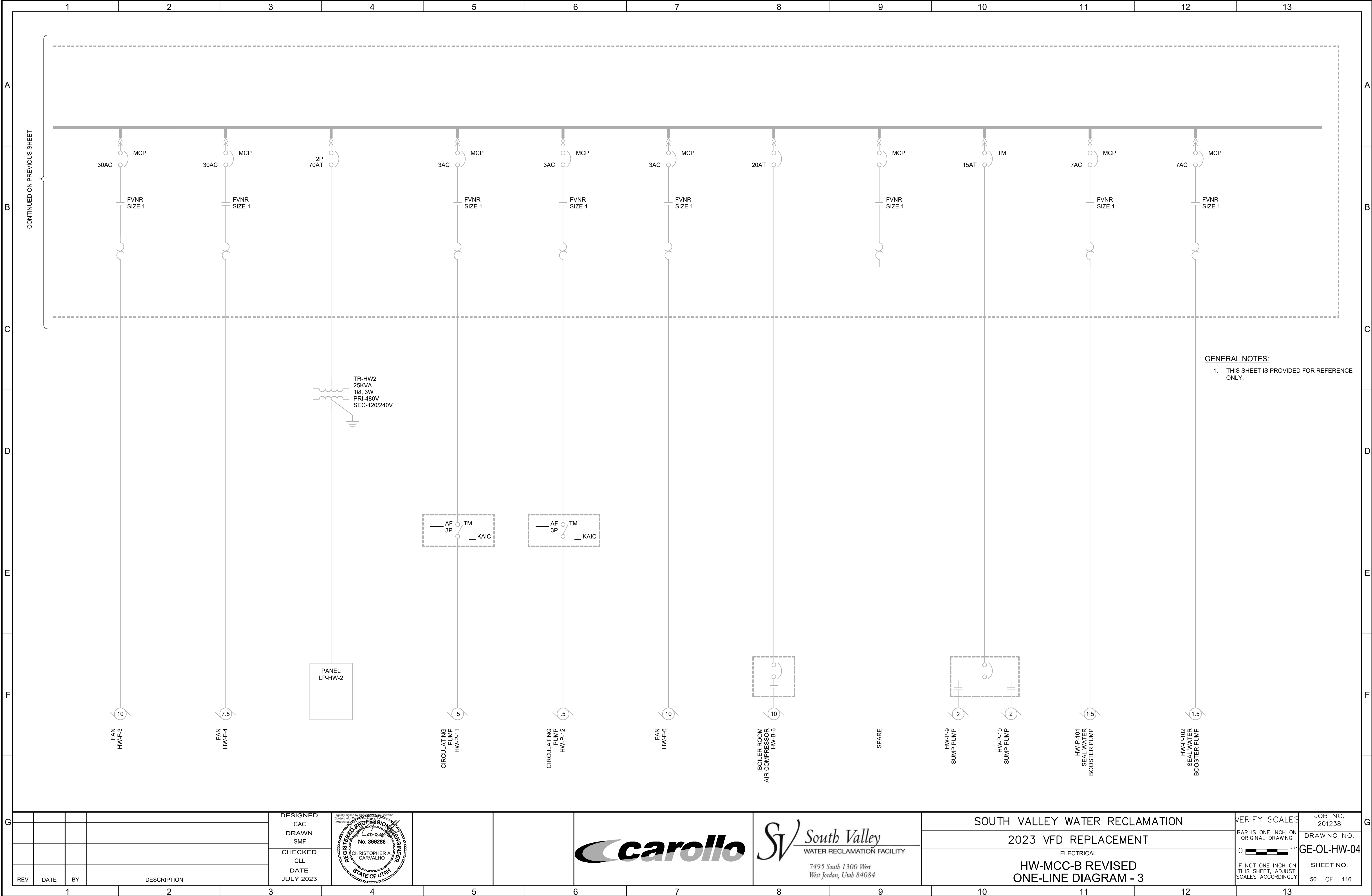
G					DESIGNED CAC				SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0  1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 201238
					DRAWN BLS				2023 VFD REPLACEMENT			DRAWING NO.
					CHECKED CLL				ELECTRICAL			GE-OL-HW-01
					DATE JULY 2023				HW-MCC-B REVISED ELEVATION			SHEET NO.
	REV	DATE	BY	DESCRIPTION								47 OF 116



LAST SAVED BY: mcrablio



LAST SAVED BY: mcraballo





3



7 3

(ALIGNED BEHIND SECTIONS C-F OF FRONT

- 2

Digitally signed by Christopher A. Carvalho
Contact Info: Christopher A. Carvalho
Date: 2022.07.27 15:07:00 -0400

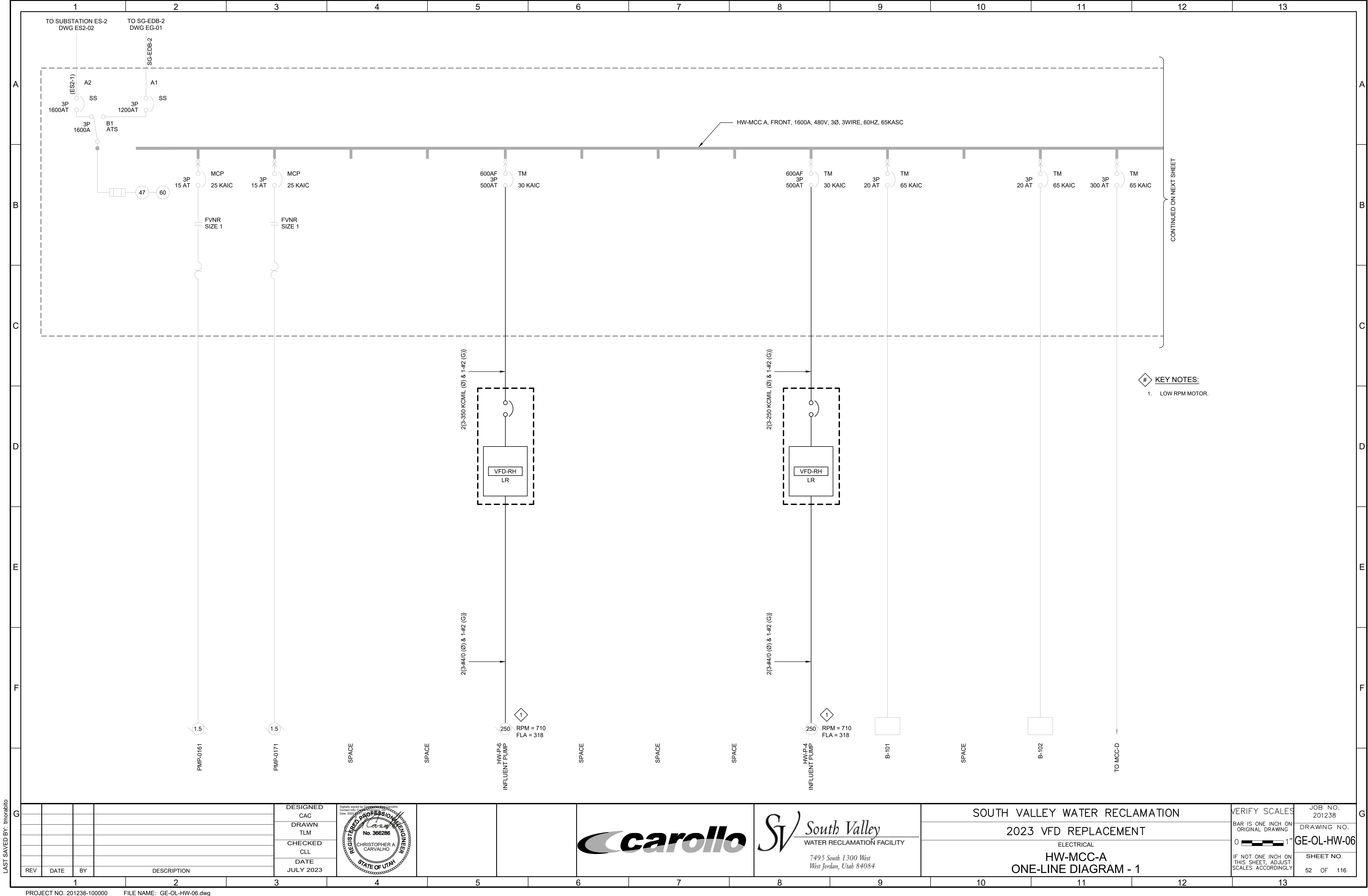


The seal is circular with a double-lined border. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF UTAH" at the bottom. The center of the seal features the name "CHRISTOPHER A. CARVALHO" and the license number "No. 366286". A handwritten signature, "Carvalho", is written across the seal.

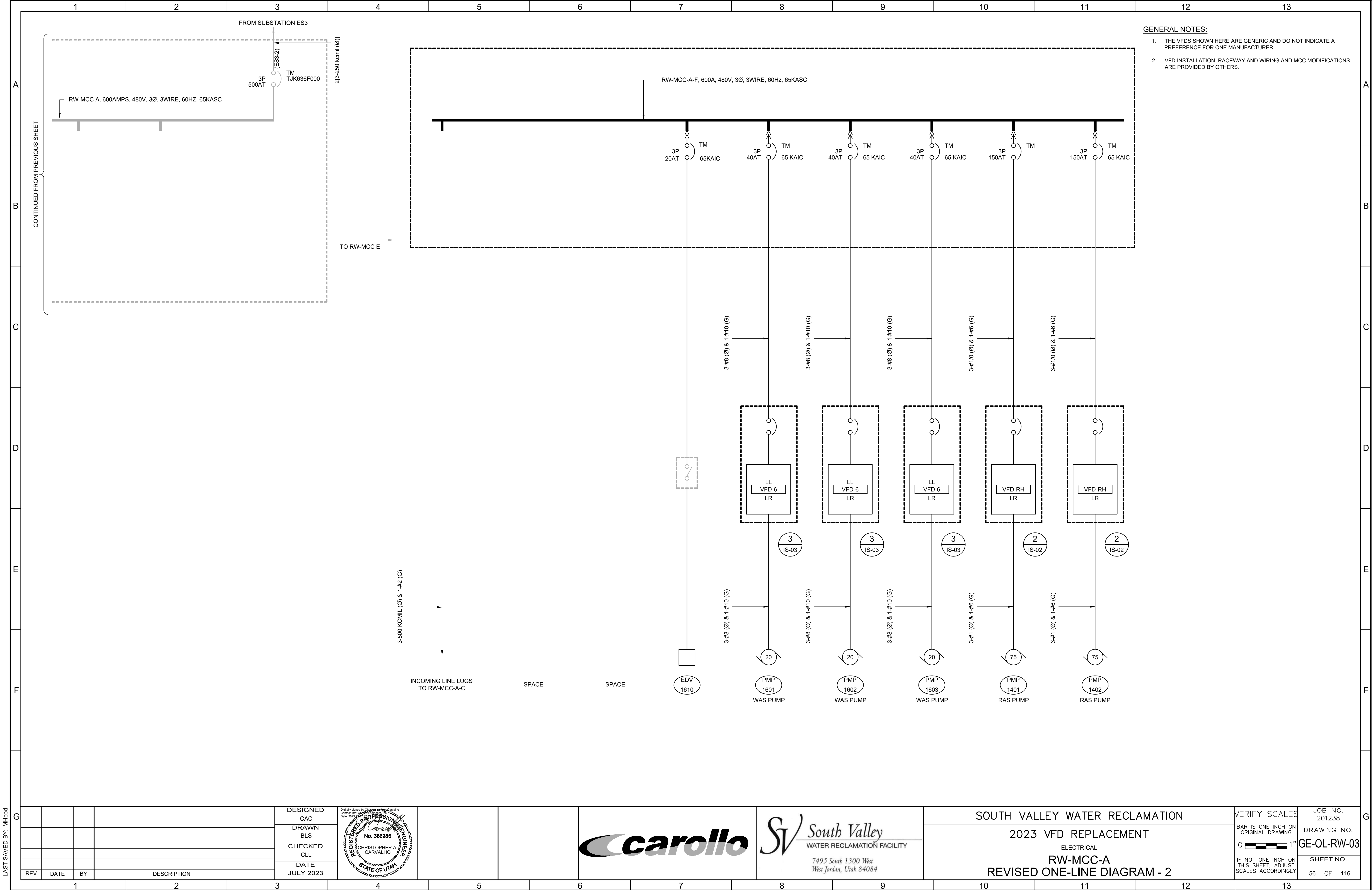


SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
ELECTRICAL
HW-MCC-A
ELEVATION

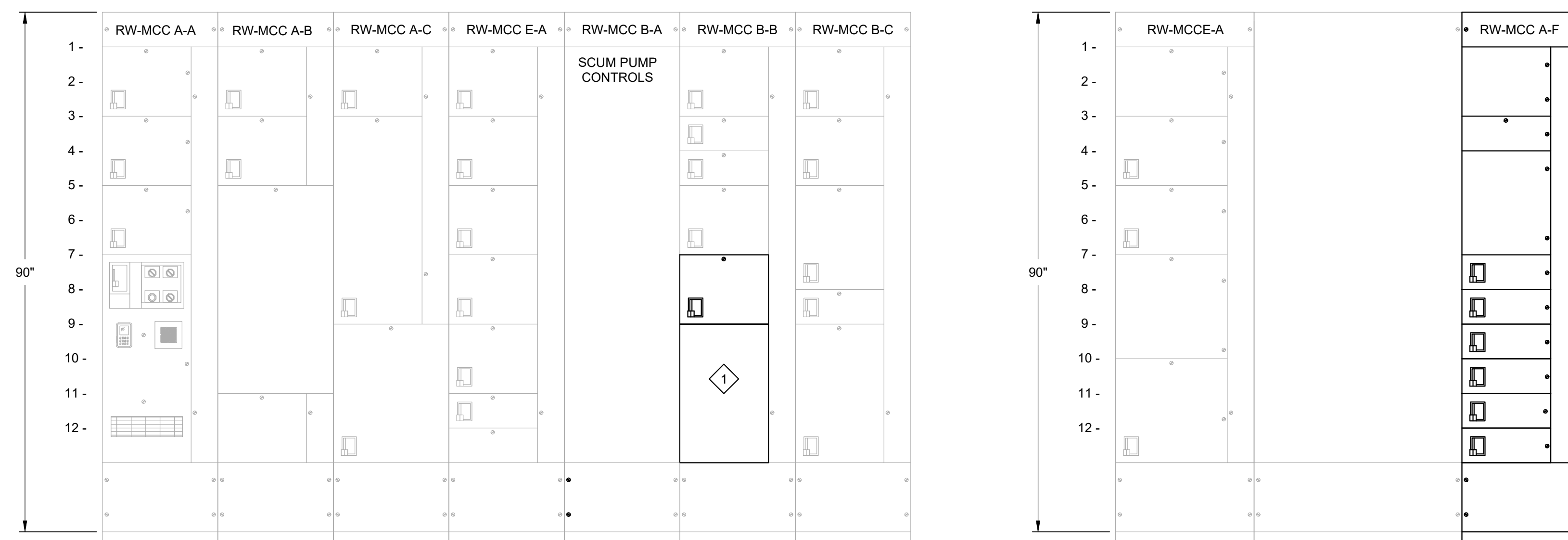
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 201238
	DRAWING NO. GE-OL-HW-05
	SHEET NO. 51 OF 116



LAST SAVED BY: tncrablio

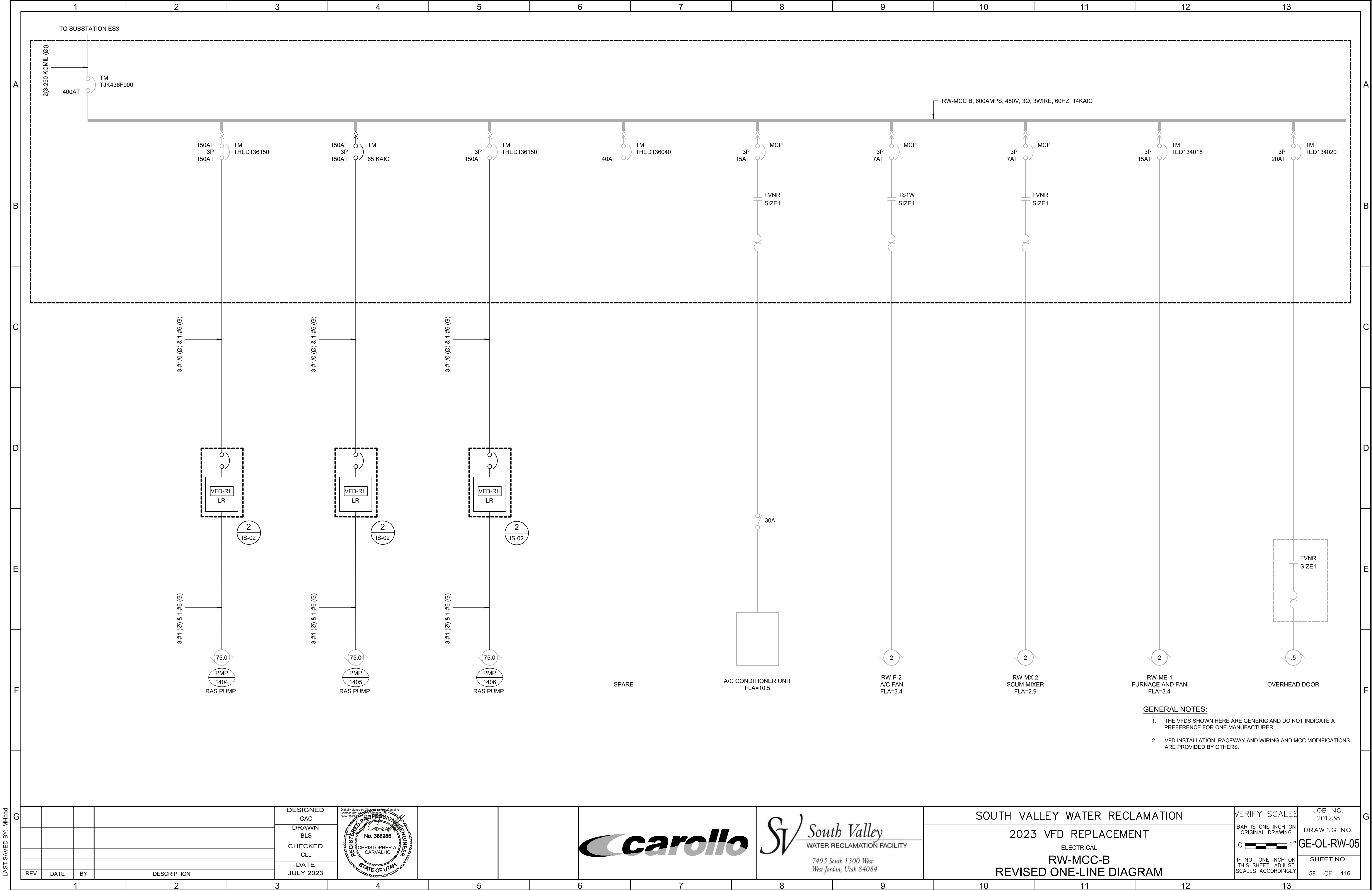


LAST SAVED BY: MHood

RW-MCC B ELEVATION
RAS BUILDING NO. 1

- | | | | | | |
|------|----------------------------|------|-----------------------|-------|----------------------|
| B1 - | PMP-1406
RAS PUMP | C1 - | RW-MX-2
SCUM MIXER | F1 - | INCOMING LINE LUGS |
| B3 - | RW-ME-1
FURNACE AND FAN | C3 - | RW-ME-4
CONDENSER | F3 - | SPACE |
| | | | | F4 - | SPACE |
| B4 - | OVERHEAD DOOR | C5 - | RW-ME-5
CONDENSER | F7 - | EDV-1610 |
| | | | | F8 - | WAS PUMP
PMP-1601 |
| B5 - | PMP-1404
RAS PUMP | C8 - | RW-F-2
A/C FAN | F9 - | WAS PUMP
PMP-1602 |
| B7 - | PMP-1405
RAS PUMP | C9 - | MAIN FROM ES-3 | F10 - | WAS PUMP
PMP-1603 |
| B9 - | SPACE | | | F11 - | RAS PUMP
PMP-1401 |
| | | | | F12 - | RAS PUMP
PMP-1402 |

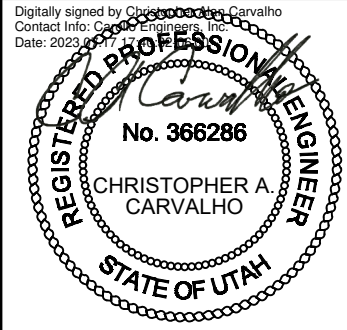
				DESIGNED CAC	 Digitally signed by Christopher A. Carvalho DN: cn=Christopher A. Carvalho, o=Carvalho, ou=Utah, email=carvalho@carvalho.com, c=US Date: 2023.07.01 10:09:10 -07'00'			 South Valley WATER RECLAMATION FACILITY <i>7495 South 1300 West West Jordan, Utah 84084</i>	SOUTH VALLEY WATER RECLAMATION	VERIFY SCALES	JOB NO. 201238
			DRAWN BLS						2023 VFD REPLACEMENT	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
			CHECKED CLL						ELECTRICAL	0 1"	GE-OL-RW-04
			DATE JULY 2023						RW-MCC-B REVISED ELEVATION	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 57 OF 116
REV	DATE	BY	DESCRIPTION								



LAST SAVED BY: MHOOD

REV	DATE	BY	DESCRIPTION

DESIGNED	CAC
DRAWN	BLS
CHECKED	CLL
DATE	JULY 2023



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

SOUTH VALLEY WATER RECLAMATION

2023 VFD REPLACEMENT

ELECTRICAL

RW-MCC-B
REVISED ONE-LINE DIAGRAM

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.

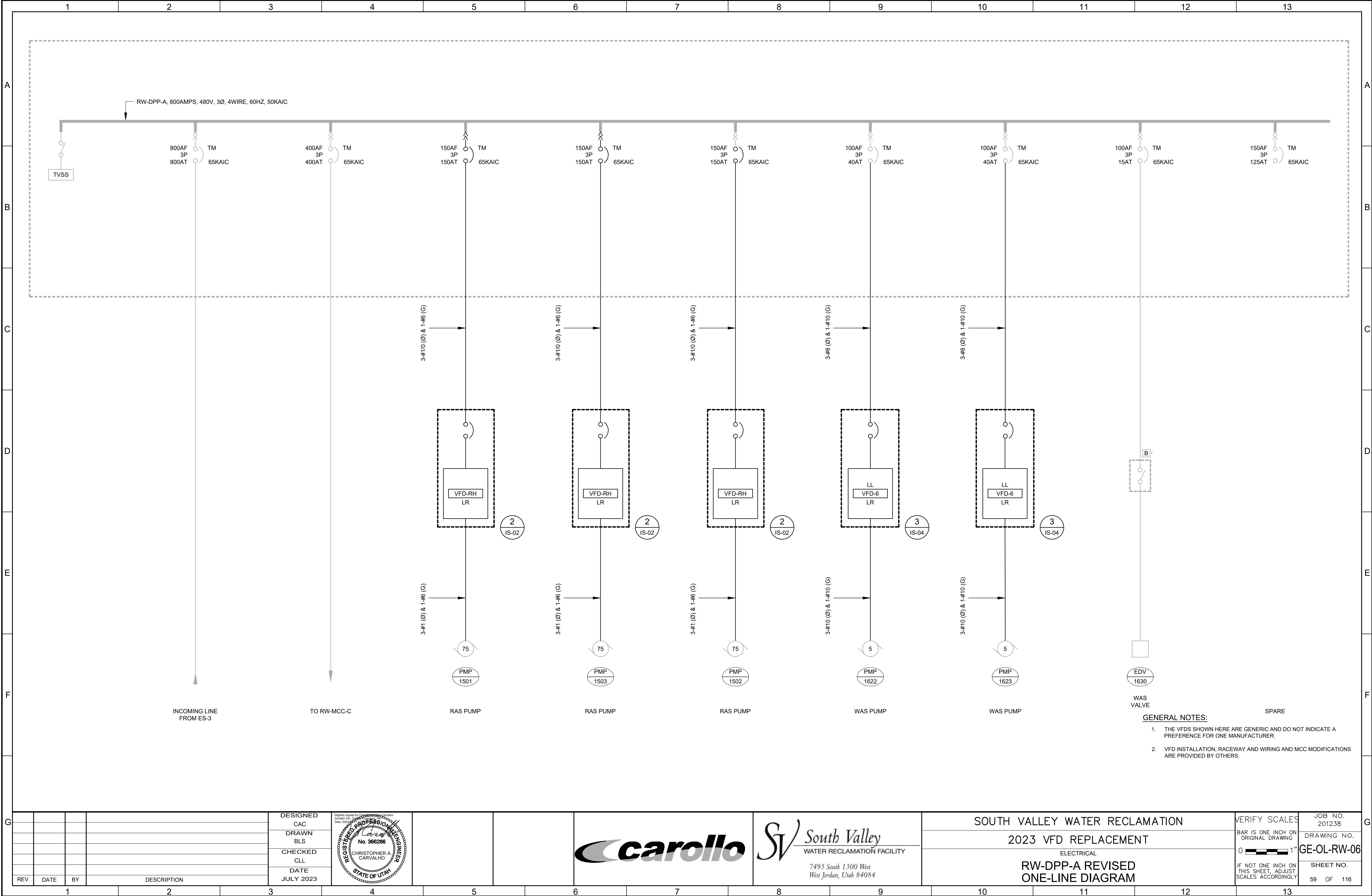
201238

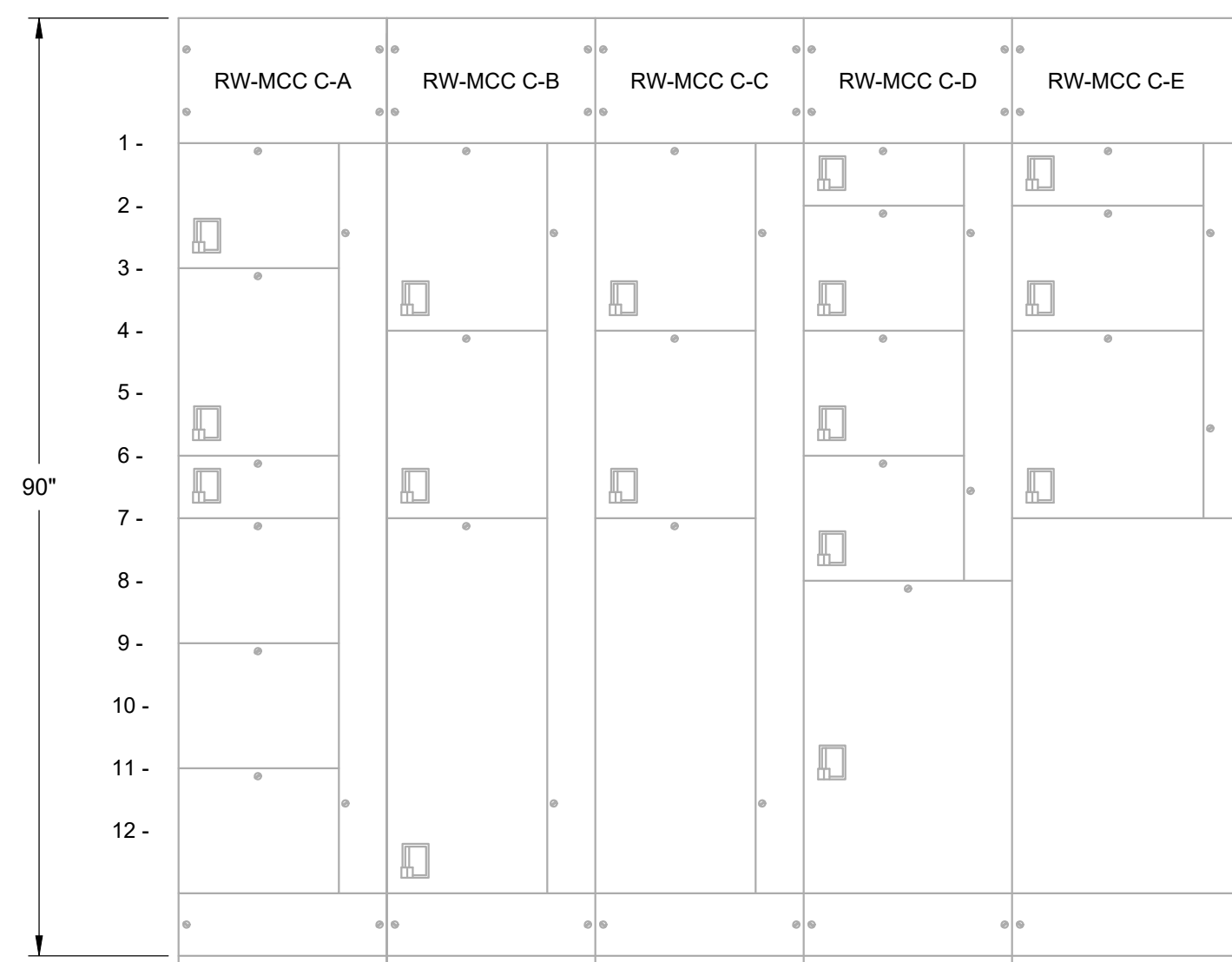
DRAWING NO.

GE-OL-RW-05

SHEET NO.

58 OF 116





- | | | | | | | | | | |
|-------|----------------------------------|------|--------------------------|------|--|------|-------------------------------------|------|-------------------------------------|
| A1 - | SPARE FVNR
(SIZE 1, 30A, MCP) | B1 - | EVAP COOLER
RW-ME-105 | C1 - | SPARE
TM-150 AT | D1 - | A/C HANDLING UNIT
RW-ME-109 | E1 - | LIGHTING PANEL
LRW-A |
| A3 - | SCUM SUMP MIXER
RW-MX-102 | B4 - | EVAP COOLER
RW-MX-104 | C4 - | SPARE
TM-150 AT | D2 - | SPARE FVNR
(SIZE 1, 30A, MCP) | E2 - | NORMAL SUPPLY TO
TRANSFER SWITCH |
| A6 - | OVERHEAD DOOR | B7 - | SPARE | C7 - | SEAL WATER
BOOSTER PUMP
AUX. CONTROL | D4 - | SEAL WATER BOOSTER
PUMP RW-P-114 | E4 - | EMERG. SUPPLY TO
TRANSFER SWITCH |
| A7 - | SPACE | | | | | D6 - | SEAL WATER BOOSTER
PUMP RW-P-115 | E7 - | ASCO TRANSFER
SWITCH |
| A9 - | SPACE | | | | | D8 - | MAIN C.B.
TM-400AT | | |
| A11 - | SPACE | | | | | | | | |

GENERAL NOTES:

1. GE 8000 LINE MOTOR CONTROL CENTER NO. H492193.

KEY NOTES:

1. PROVIDE A NEW "SPARE" NAMEPLATE.

[illegible]