

South Valley Water Reclamation Facility

Drawings for the Construction of

2022 VFD REPLACEMENT PROJECT

September 2022

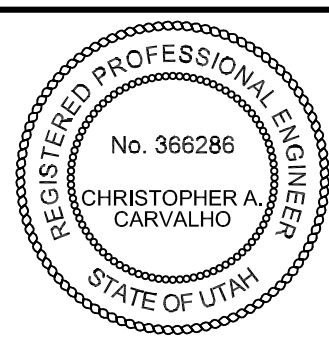
VOLUME 2

VFD PROCUREMENT PACKAGE

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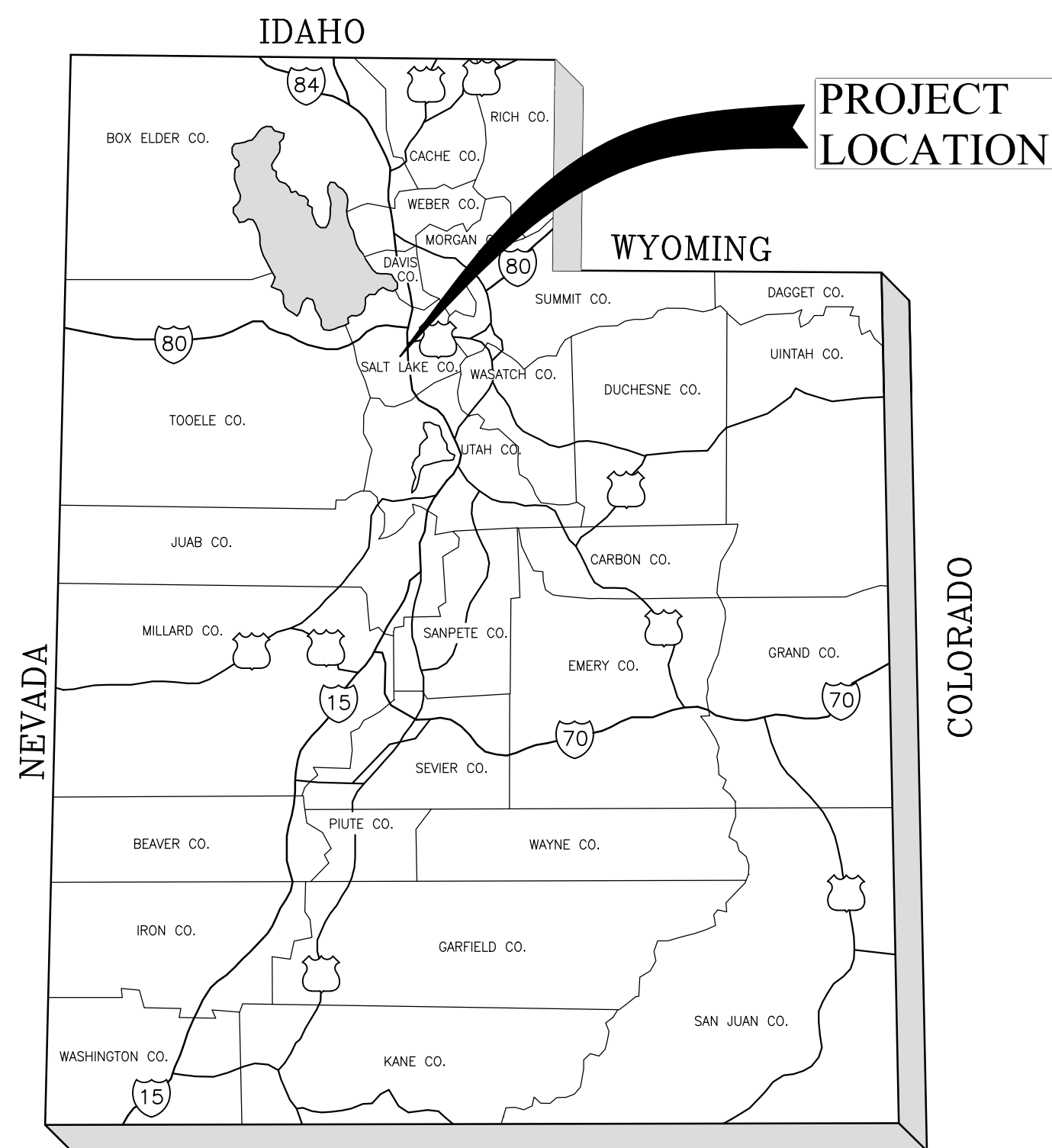
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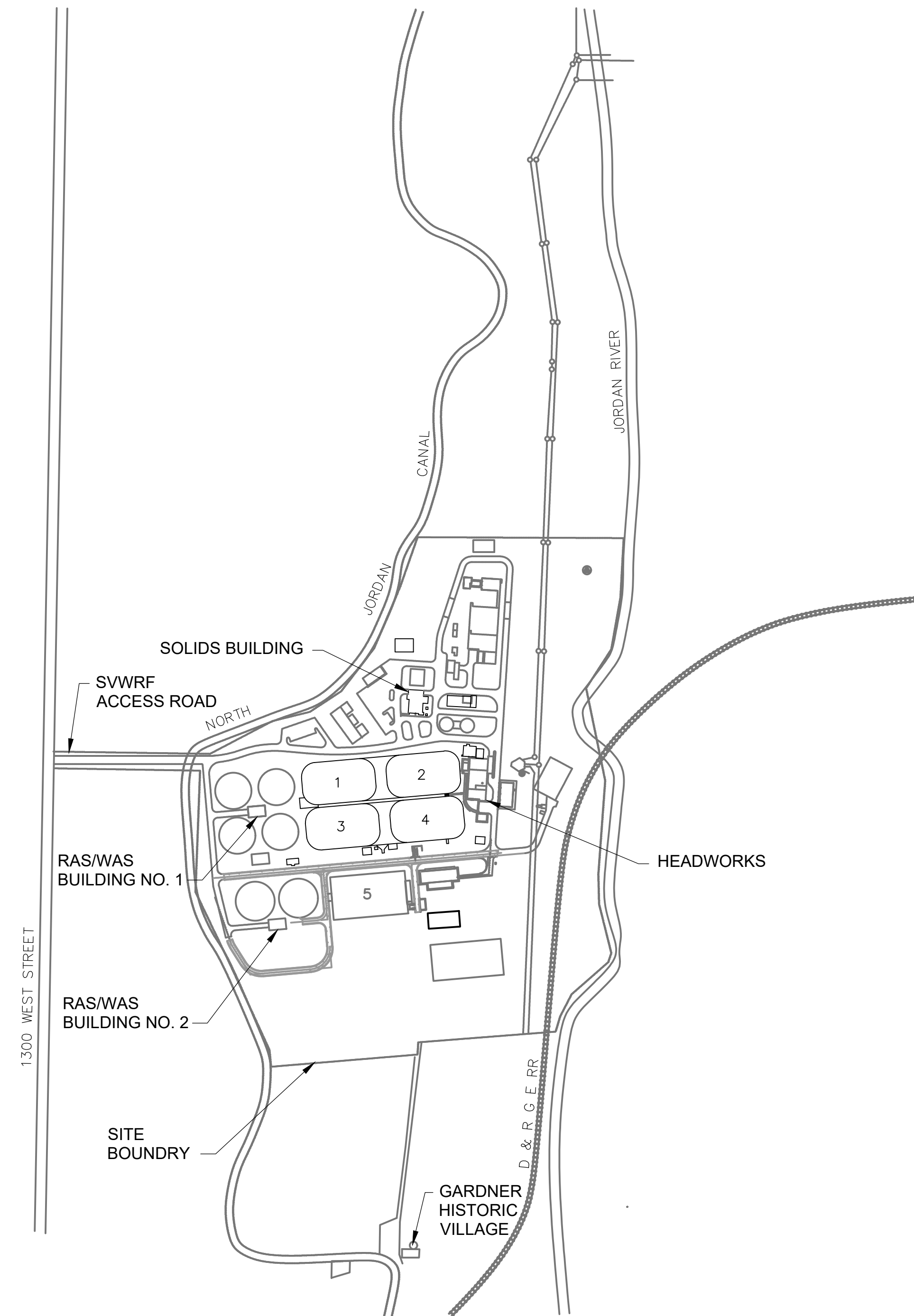
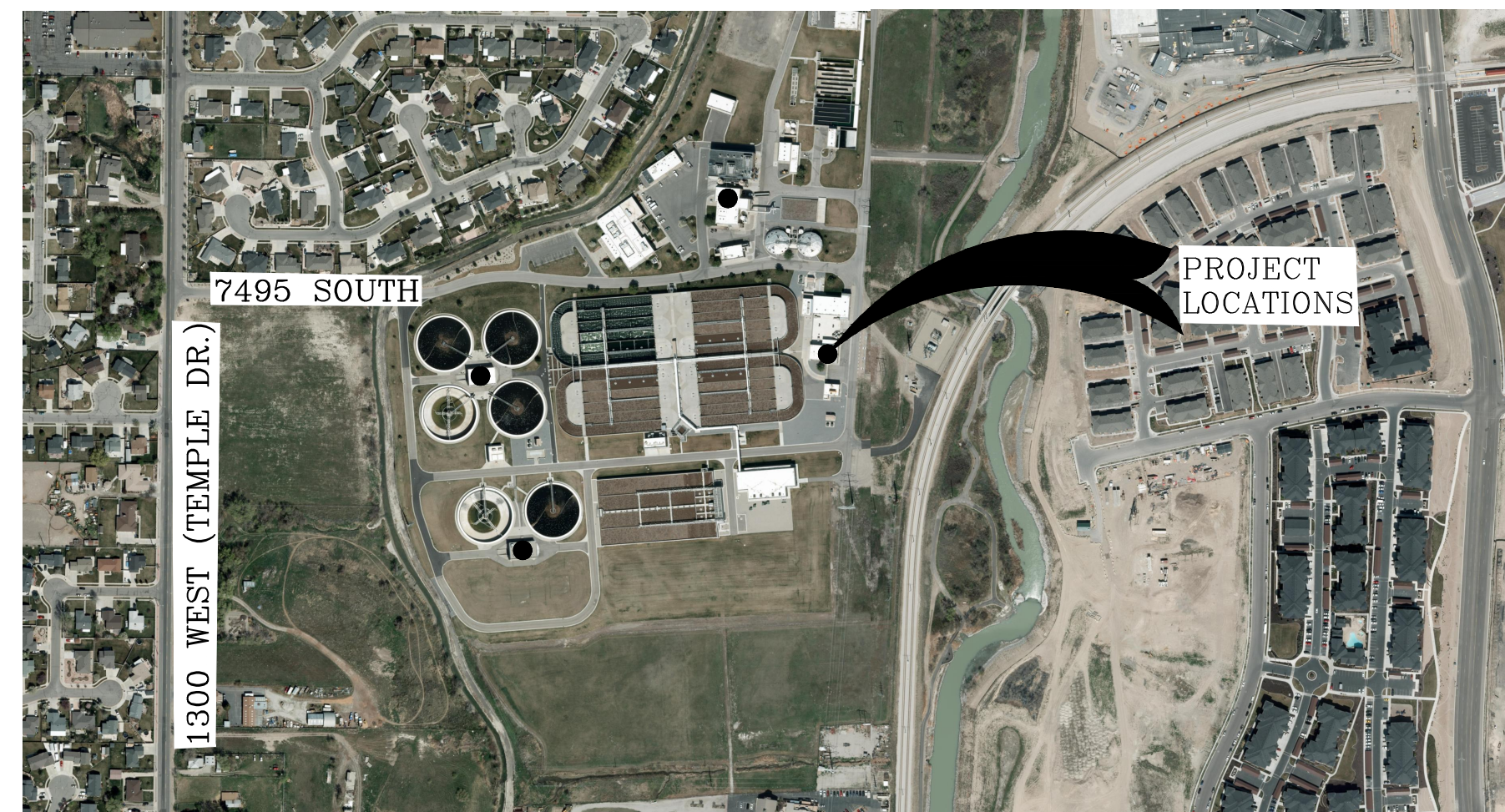
SOUTH VALLEY WATER RECLAMATION
2022 VFD REPLACEMENT
GENERAL
COVER SHEET

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. G01
SHEET NO. SHT OF



PROJECT LOCATION MAP
NTS



SITE MAP
NTS

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

SOUTH VALLEY WATER RECLAMATION
2022 VFD REPLACEMENT
ELECTRICAL
LOCATION, VICINITY AND SITE MAPS

VERIFY SCALES
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JOB NO.
201238
DRAWING NO.
G02
SHEET NO.
OF 108

DRAWING NO.

DRAWING TITLE

GENERAL

- G01 COVER SHEET
- G02 LOCATION, VICINITY AND SITE MAPS
- G03 SHEET INDEX

ELECTRICAL

- GE01 ELECTRICAL LEGEND
- GE02 ELECTRICAL ABBREVIATIONS
- GE-OL-HW-01 HW-MCC-B ELEVATION
- GE-OL-HW-02 HW-MCC-B PARTIAL ONE-LINE DIAGRAM- 1
- GE-OL-HW-03 HW-MCC-B PARTIAL ONE-LINE DIAGRAM- 2
- GE-OL-RW-01 RW-MCC-A ELEVATION
- GE-OL-RW-02 RW-MCC-A PARTIAL ONE-LINE DIAGRAM - 1
- GE-OL-RW-03 RW-MCC-A PARTIAL ONE-LINE DIAGRAM - 2
- GE-OL-RW-04 RW-MCC-B ELEVATION
- GE-OL-RW-05 RW-MCC-B ONE-LINE DIAGRAM
- GE-OL-RW-06 RW-DPP-A ONE-LINE DIAGRAM
- 1E-01 HEADWORKS PUMP STATION VFD LINEUP
- 14E-02 RAS/WAS BUILDING #1 UPPER LEVEL PLAN
- 17E-02 RAS/WAS BUILDING #2 UPPER LEVEL PLAN

INSTRUMENTATION

- GN05 SCHEMATIC SYMBOLS
- PI-0001 I/O TABLES
- IS-0001 HEADWORKS PUMPS CONTROL SCHEMATIC
- IS-0002 WAS PUMPS CONTROL SCHEMATIC
- IS-0003 RAS PUMPS CONTROL SCHEMATIC

A

B

C

D

E

F

G

A

B

C

D

E

F

G

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2022 VFD REPLACEMENT
ELECTRICAL
SHEET INDEX

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JOB NO.
201238
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G03
SHEET NO.
OF 108

ELECTRICAL PLAN SYMBOLS

ELECTRICAL ONE-LINE SYMBOLS

IDENTIFICATION SYMBOLS

EQUIP # EQUIPMENT AND INSTRUMENT IDENTIFICATION

EQUIPMENT/INSTRUMENT LOCATOR

LUMINAIRE IDENTIFICATION
 a = CIRCUIT DESIGNATION
 b = DEVICE SWITCHED FROM
 c = MOUNTING HEIGHT IN FEET TO BOTTOM OF FIXTURE
 X = LUMINAIRE TYPE, REFER TO THE LUMINAIRE SCHEDULE

CONDUIT IDENTIFICATION
 XXXX = CONDUIT NUMBER, REFER TO CONDUIT SCHEDULE
 UNLESS OTHERWISE NOTED, GROUPED CONDUITS ARE LABELED LEFT TO RIGHT OR TOP TO BOTTOM.

INDICATES KEYNOTE X
 (PERTAINS ONLY TO SHEET WHERE NOTE IS FOUND)

DISCONNECT SWITCH
 A = TYPE, REFER TO DISCONNECT SCHEDULE

CAMERA

LUMINAIRES

LINEAR FIXTURE

2' X 2' LAY-IN TROFFER

2' X 4' LAY-IN TROFFER

LUMINAIRE POLE MOUNTED

GO/NO-GO PANEL - STROBE AND HORN
 R = RED LIGHT
 G = GREEN LIGHT
 H = HORN

GO/NO-GO PANEL - SOLID

GO/NO-GO PANEL - STROBE

LUMINAIRE, EMERGENCY BATTERY-POWERED

LUMINAIRE, EMERGENCY/EXIT BATTERY-POWERED

LUMINAIRE, EMERGENCY BATTERY-POWERED REMOTE

LUMINAIRE, SURFACE OR PENDANT MOUNTED

LUMINAIRE, WALL MOUNTED

LUMINAIRE, FLOOD/SPOT

LUMINAIRE, EXIT ONE OR TWO FACES AS INDICATED.
 ARROW POINTS IN DIRECTION OF EGRESS.

SWITCHES/RECEPTACLES

SINGLE POLE SWITCH
 a = CIRCUIT DESIGNATION
 b = DEVICE SWITCHED DESIGNATION
 c = TYPE
 2 = DOUBLE POLE SWITCH
 3 = THREE-WAY SWITCH
 3P = THREE POSITION SWITCH
 4 = FOUR-WAY SWITCH
 K = KEY OPERATED SWITCH
 F = SWITCH AND FUSESTAT HOLDER
 P = SWITCH AND PILOT LIGHT
 T = THERMOSTAT
 D = DIMMER SWITCH
 L = LOW VOLTAGE LIGHT SWITCH
 M = MANUAL MOTOR STARTER
 N = NETWORKED SINGLE OR MULTIPLE SWITCH LOCATIONS

REFER TO ABBREVIATIONS LEGEND FOR ALL OTHER DESIGNATIONS.

OCCUPANCY SENSOR
 X REFERENCE LIGHTING CONTROL COMPONENT SCHEDULE
 a = CIRCUIT DESIGNATION
 b = DEVICE SWITCHED DESIGNATION
 c = MOUNTING HEIGHT IN FEET TO BOTTOM OF SENSOR

PHOTOCELL

SWITCH AND SINGLE RECEPTACLE
 a = CIRCUIT DESIGNATION
 b = DEVICE TYPE DESIGNATION

DUPLEX RECEPTACLE

QUADRUPLUX RECEPTACLE

IN FLOOR DUPLEX RECEPTACLE

IN FLOOR QUADRUPLUX RECEPTACLE

DUPLEX RECEPTACLE w/SPLIT WIRE

DEDICATED RECEPTACLE

SPECIAL PURPOSE RECEPTACLE

WELDING RECEPTACLE
 a = CIRCUIT DESIGNATION
 b = DISCONNECT TYPE

TWIST LOCK RECEPTACLE
 a = AMP RATING

TELEPHONE OUTLET
 a = CIRCUIT DESIGNATION
 b = MOUNTING HEIGHT

DATA COMMUNICATIONS OUTLET
 a = CIRCUIT DESIGNATION
 b = MOUNTING HEIGHT

FIRE ALARM

SMOKE DETECTOR
 a = TYPE
 I = IONIZATION
 P = PHOTOELECTRIC
 d = DUCT DETECTOR

FIRE ALARM CONTROL PANEL

FIRE ALARM PULL STATION

FIRE ALARM HORN/STROBE COMBINATION

FIRE ALARM STROBE

FIRE SPRINKLER
 F = FLOW SWITCH
 T = TAMPER SWITCH

RACEWAY

EXPOSED CONDUIT

BREAK AND CONTINUATION IN CONDUIT RUN

EXPOSED CONDUIT HIDDEN BEHIND WALLS, FLOORS OR OTHER STRUCTURES

UNDERGROUND CONDUIT, DIRECT BURIED OR IN DUCT BANK

CONDUIT IN SLAB

CONDUIT VERTICAL CHANGE IN DIRECTION

CONDUIT CAP

JUNCTION BOX

CONDUIT SEAL

CONDUIT TEE

DUCT BANK
 APPROXIMATE DIMENSIONS SHOWN ON DUCT BANK SECTIONS

CONDUIT SIZE AND CONDUCTORS

INDIVIDUAL CONDUCTORS

W"C-(3-X (Ø), 1-Y (N) & 1-Z (G))

W"C (WHERE INDICATED): W = CONDUIT TRADE SIZE

3-X (Ø):
 3 = QUANTITY
 X = SIZE OF CONDUCTORS
 (Ø) = DESIGNATES PHASE CONDUCTORS

1-Y (N) (WHERE INDICATED):
 1 = QUANTITY
 Y = SIZE OF CONDUCTORS
 (N) = DESIGNATES NEUTRAL CONDUCTORS

1-Z (G) (WHERE INDICATED):
 1 = QUANTITY
 Z = SIZE OF CONDUCTORS
 (G) = DESIGNATES GROUND CONDUCTORS

U(3-X (Ø) & 1-X (G))
 U = NUMBER OF PARALLEL RUNS

VFD CONDUCTORS

U{[N/C-X (Ø) & INTEGRAL (G)]};VFD;
 U = NUMBER OF PARALLEL RUNS
 N/C = NUMBER OF PHASE CONDUCTORS IN CABLE
 X = SIZE OF CONDUCTORS
 VFD = VFD CABLE

MULTI CONDUCTOR CABLES

K/2/C#16S
 K (WHERE INDICATED) = NUMBER OF PAIRS
 2/C#16S = TWO CONDUCTOR, 16 GAUGE, TWISTED SHIELDED PAIR

K/3/C#16S
 K (WHERE INDICATED) = NUMBER OF TRIPLETS
 3/C#16S = THREE CONDUCTOR, 16 GAUGE, TWISTED SHIELDED TRIPLETS

U{[N/C-X (Ø) & INTEGRAL (G)];MC};
 U = NUMBER OF PARALLEL RUNS
 MC = MULTICONDUCTOR CABLE
 N/C = NUMBER OF PHASE CONDUCTORS IN THE CABLE
 X = SIZE OF CONDUCTORS

GROUNDING

UNDERGROUND GROUND CABLE
 #4/0 SDBC UNLESS OTHERWISE NOTED

GROUND ROD

GROUND ROD AND GROUND WELL

MEDIUM VOLTAGE

CIRCUIT BREAKER, MEDIUM VOLTAGE
 a = CIRCUIT BREAKER NUMBER
 b = FRAME SIZE

ANSI RELAY DEVICE
 a = ANSI DEVICE FUNCTION
 b = QUANTITY

MEDIUM VOLTAGE DISCONNECT SWITCH
 NON-FUSED CUT OUT

MEDIUM VOLTAGE DISCONNECTING FUSE
 SINGLE FUSE CUT OUT

MEDIUM VOLTAGE DISCONNECTING FUSE
 DOUBLE FUSE CUT OUT

MEDIUM VOLTAGE SINGLE FUSE

MEDIUM VOLTAGE DOUBLE FUSE

MEDIUM VOLTAGE LIVE FRONT TERMINATOR

MEDIUM VOLTAGE ELBOW

MEDIUM VOLTAGE TEE

MEDIUM VOLTAGE CONTACTOR

MEDIUM VOLTAGE STARTER

MOV-ELBOW ARRESTER

LOW VOLTAGE

LOW VOLTAGE CIRCUIT BREAKER
 a = TYPE
 MCP = MOTOR CIRCUIT PROTECTOR
 TM = THERMAL MAGNETIC
 SS = SOLID STATE
 b = FRAME SIZE (MANUFACTURER TO DETERMINE FRAME SIZE UNLESS INDICATED)
 c = NUMBER OF POLES
 d = TRIP SETTING (AT = AMP TRIP) (AC = MCP CONTINUOUS RATING)
 e = DESIGNATION
 f = INTERRUPTING RATING

LOW VOLTAGE CIRCUIT BREAKER
 AUXILIARY OPERATOR
 * = S = SHUNT TRIP
 † = G = GROUND FAULT INTERRUPTER
 ‡ = V = SOLENOID KEY RELEASE

DISCONNECT SWITCH
 A = TYPE, REFER TO DISCONNECT SCHEDULE

FUSED DISCONNECT SWITCH
 B = TYPE, REFER TO DISCONNECT SCHEDULE
 b = FUSE RATING

FUSE

COMBINATION STARTER
 WITH CONTROL POWER TRANSFORMER
 a = CIRCUIT BREAKER DISCONNECT, TYPE AS NOTED
 b = STARTER TYPE
 REFER TO THE SPECIFICATIONS FOR STARTER DEFINITIONS.
 c = NEMA STARTER SIZE
 d = OVERLOAD

MOTOR STARTER/DRIVES:
 a = DEVICE TYPE
 VFD-6 = 6-PULSE VFD
 VFD-18 = 18-PULSE VFD
 VFD-RH = REDUCED HARMONIC VFD (18-PULSE OR ACTIVE FRONT END AS DEFINED IN THE SPECIFICATIONS)
 RVSS = REDUCED VOLTAGE SOLID STATE STARTER
 RVAT = REDUCED VOLTAGE AUTO TRANSFORMER
 a/B = DEVICE WITH BYPASS STARTER. REFER TO THE SPECIFICATIONS

b = INPUT OPTIONS
 LL = LINE REACTOR
 PHF = PASSIVE HARMONIC FILTER

c = OUTPUT OPTIONS
 LR = LOAD REACTOR
 DV/DT = Dv/dt FILTER
 SWF = SINE WAVE FILTER

EQUIPMENT ENCLOSURE

MISCELLANEOUS

MOTOR
 HP = HORSEPOWER RATING
 FULL LOAD AMPS AS NOTED

PACKAGED EQUIPMENT
 LOAD RATING AS INDICATED
 a = RATED LOAD
 b = UNIT(HP, KW, KVA) AS INDICATED

TRANSFORMER
 a = DEVICE I.D.
 b = KVA RATING
 c = NUMBER OF PHASES
 d = PRIMARY VOLTAGE
 e = SECONDARY VOLTAGE
 f,g = CONNECTION TYPE SYMBOL
 h = IMPEDANCE

GROUNDING WYE CONNECTION

DELTA CONNECTION

ENGINE-GENERATOR RATINGS AS INDICATED ON THE DRAWINGS
 a = KVA/KW
 b = VOLTAGE/CONNECTION
 c = PHASE
 d = WIRE
 e = PF

CURRENT TRANSFORMER WITH SHORTING TERMINAL BLOCK
 a = QUANTITY
 b = RATIO

POTENTIAL TRANSFORMER
 a = QUANTITY
 b = RATIO
 c,d = CONNECTION TYPE SYMBOL

SOLID STATE MULTIFUNCTION METER

AMPERE TEST POINT

VOLTAGE TEST POINT

UTILITY METER

LIGHTNING ARRESTER

SURGE PROTECTIVE DEVICE

DRAWOUT CONNECTION

GROUND

CAPACITOR

BATTERY

KIRK KEY INTERLOCK

LOAD BANK

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SOUTH VALLEY WATER RECLAMATION
2022 VFD REPLACEMENT
 ELECTRICAL
ELECTRICAL LEGEND

VERIFY SCALES
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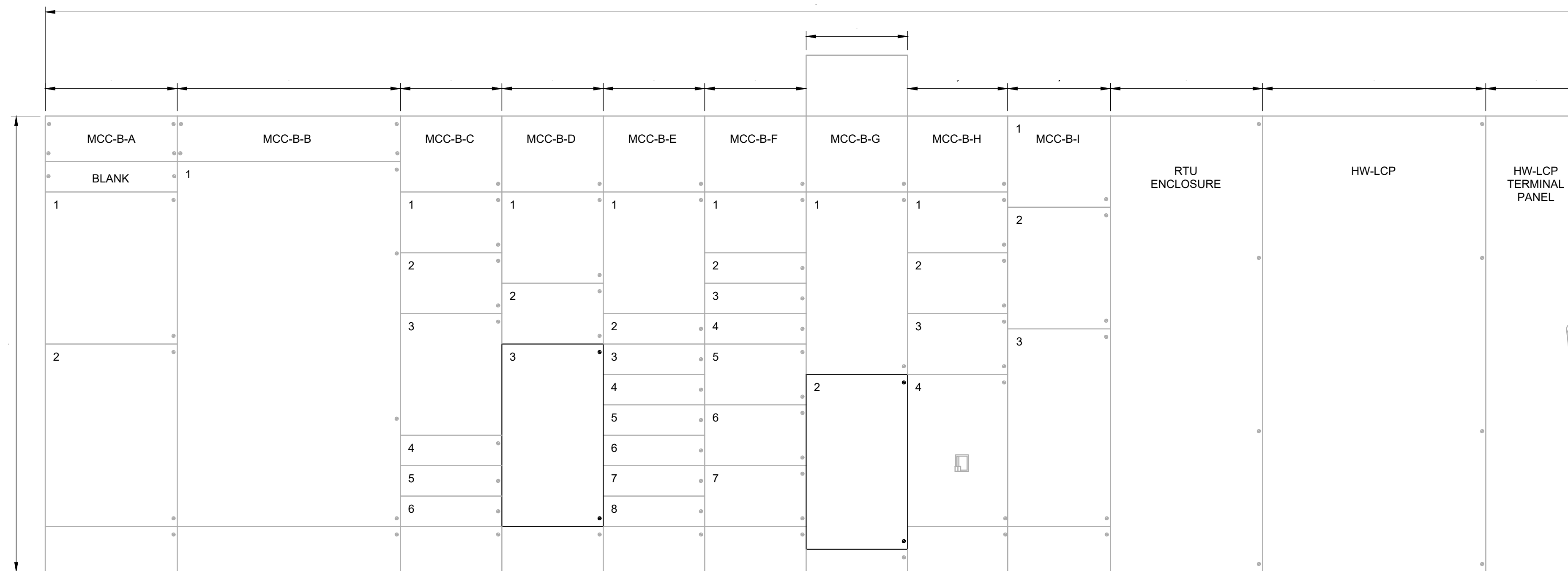
JOB NO.
201238

DRAWING NO.
GE01

SHEET NO.
SHT OF

GENERAL NOTES:

1. ALL MCC MODIFICATIONS ARE BY OTHERS.
2. STANDBY POWER FROM DIESEL GENERATORS IS AVAILABLE TO ALL INFLUENT PUMP VFDS.



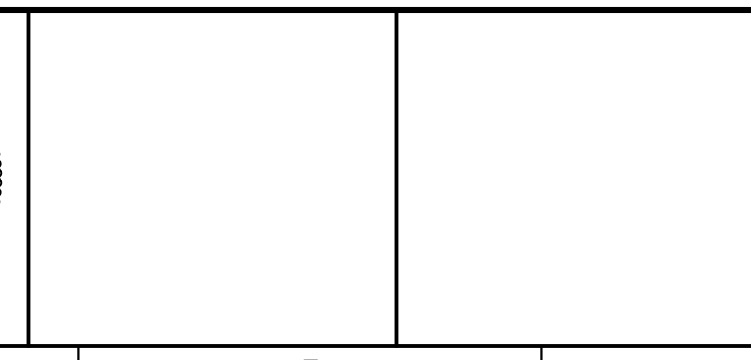
HW-MCC B ELEVATION & HW-LCP ELEVATION
SCALE: 3/4" = 1'-0"

- | | | | | | | | | |
|--------------|-------------|--------------------------------|-----------------|-------------------------------|-------------------------------|-------------------|-----------------------------|----------------------------|
| A1 -SG-EDB-1 | B1 -2000ATS | C1 -HW-P-8
-DEWATERING PUMP | D1 -SPARE | E1 -SPARE | F1 -SPACE | G1 -CONTROL PANEL | H1 -HW-P-101
-SEAL WATER | I1 -SPACE |
| A2 -ES2-5 | | C2 -HW-F-1 | D2 -HW-F-3 -FAN | E2 -SPARE | F2 -HW-P-9&10
-SUMP PUMPS | G2 -HW-P-3 | H2 -HW-P-102
-SEAL WATER | I2 -HW-MCC-C FEEDER |
| | | C3 -SPARE | D3 -HW-P-2 | E3 -AIR COMPRESSOR | F3 -SURGE SUPPRESSER | | H3 -HW-F-4 | I3 -SPACE |
| | | C4 -SPARE | | E4 -SPARE | F4 -HW-B-6
-AIR COMPRESSOR | | H4 -HW-P-5 | I1 -HW-MCC-C
-SSCB-100% |
| | | C5 -ROOF TOP -EVAP
COOLER | | E5 -PANEL SGB | F5 -HW-F-6 -FAN | | | |
| | | C6 -SPARE | | E6 -HW-ME-19
-BRIDGE CRANE | F6 -HW-P-12
-CIRC. PUMP | | | |
| | | | | E7 -O.H. DOOR
-POLE LIGHT | F7 -HW-P-11
-CIRC. PUMP | | | |
| | | | | E8 -PANEL LP-HW-2 | | | | |

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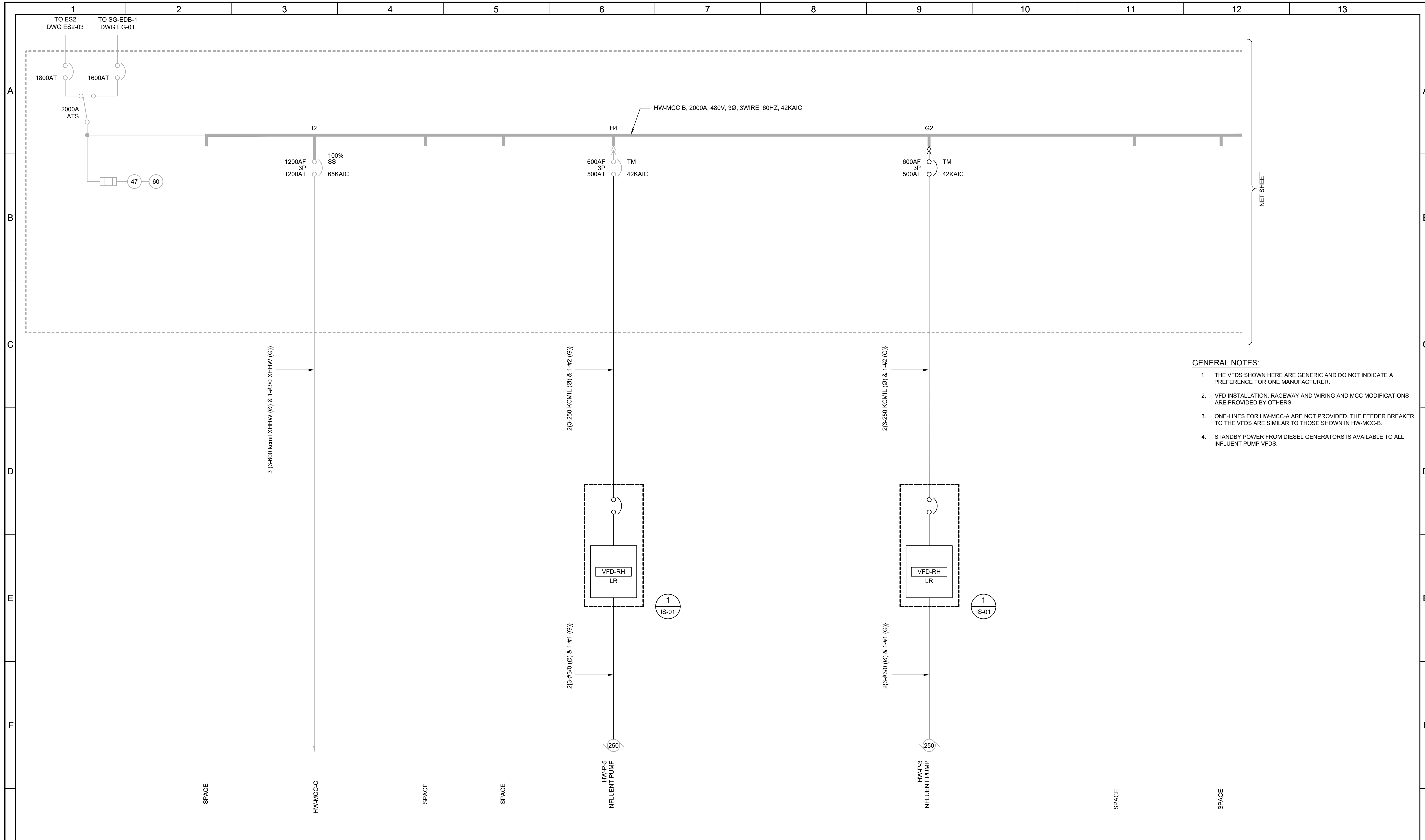
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SOUTH VALLEY WATER RECLAMATION
2022 VFD REPLACEMENT
ELECTRICAL
HW-MCC-B
REVISED ELEVATION

VERIFY SCALES	JOB NO. 201238
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. GE-OL-HW-01
0 1"	SHEET NO. OF 108
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	



- GENERAL NOTES:**
1. THE VFDS SHOWN HERE ARE GENERIC AND DO NOT INDICATE A PREFERENCE FOR ONE MANUFACTURER.
 2. VFD INSTALLATION, RACEWAY AND WIRING AND MCC MODIFICATIONS ARE PROVIDED BY OTHERS.
 3. ONE-LINES FOR HW-MCC-A ARE NOT PROVIDED. THE FEEDER BREAKER TO THE VFDS ARE SIMILAR TO THOSE SHOWN IN HW-MCC-B.
 4. STANDBY POWER FROM DIESEL GENERATORS IS AVAILABLE TO ALL INFLUENT PUMP VFDS.

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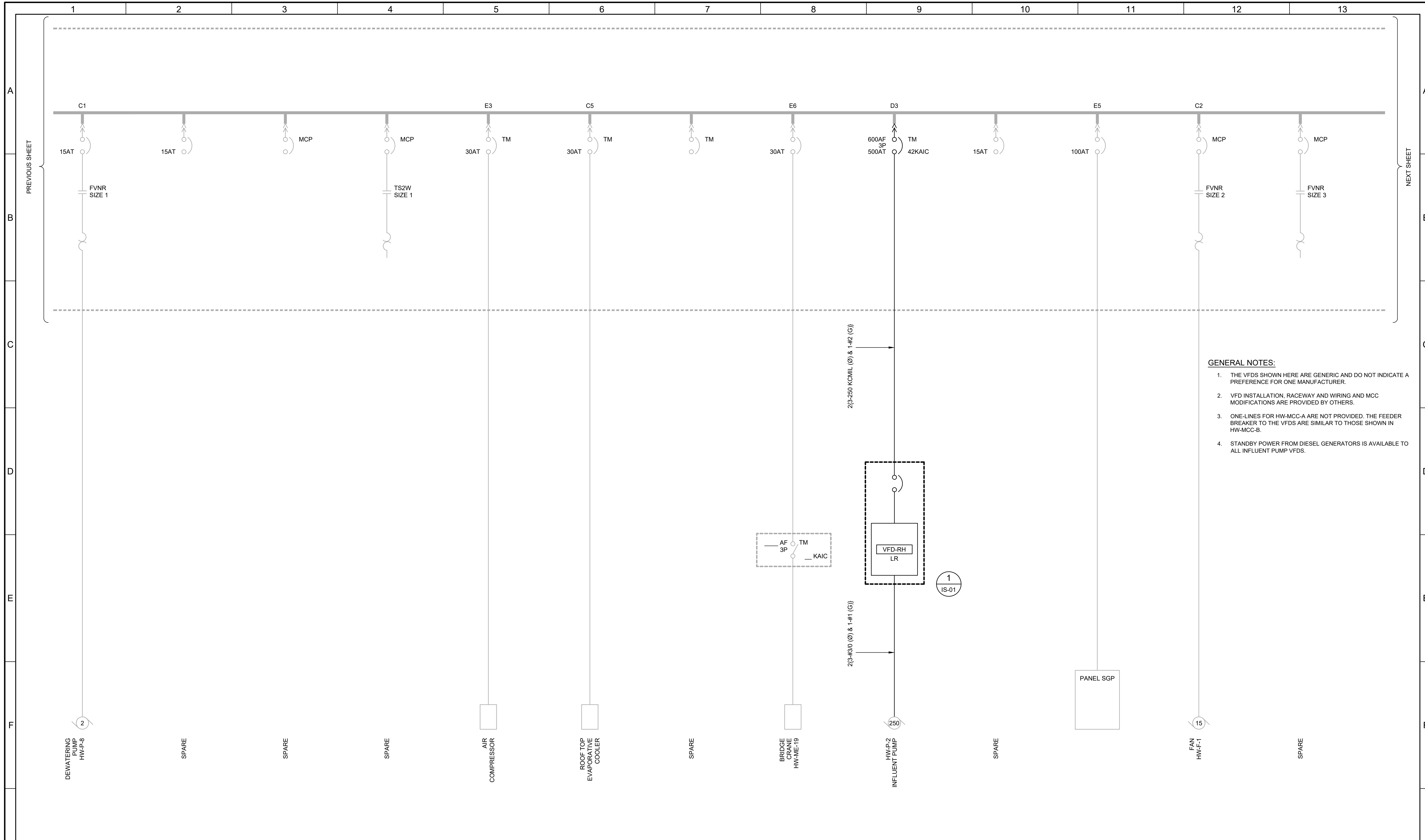
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WATER RECLAMATION FACILITY
7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238
2022 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. GE-OL-HW-02
ELECTRICAL		0 1"	SHEET NO.
HW-MCC-B REVISED ONE-LINE DIAGRAM - 1		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	OF 108

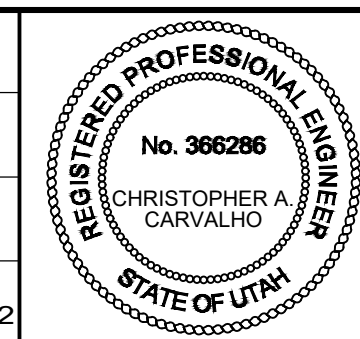


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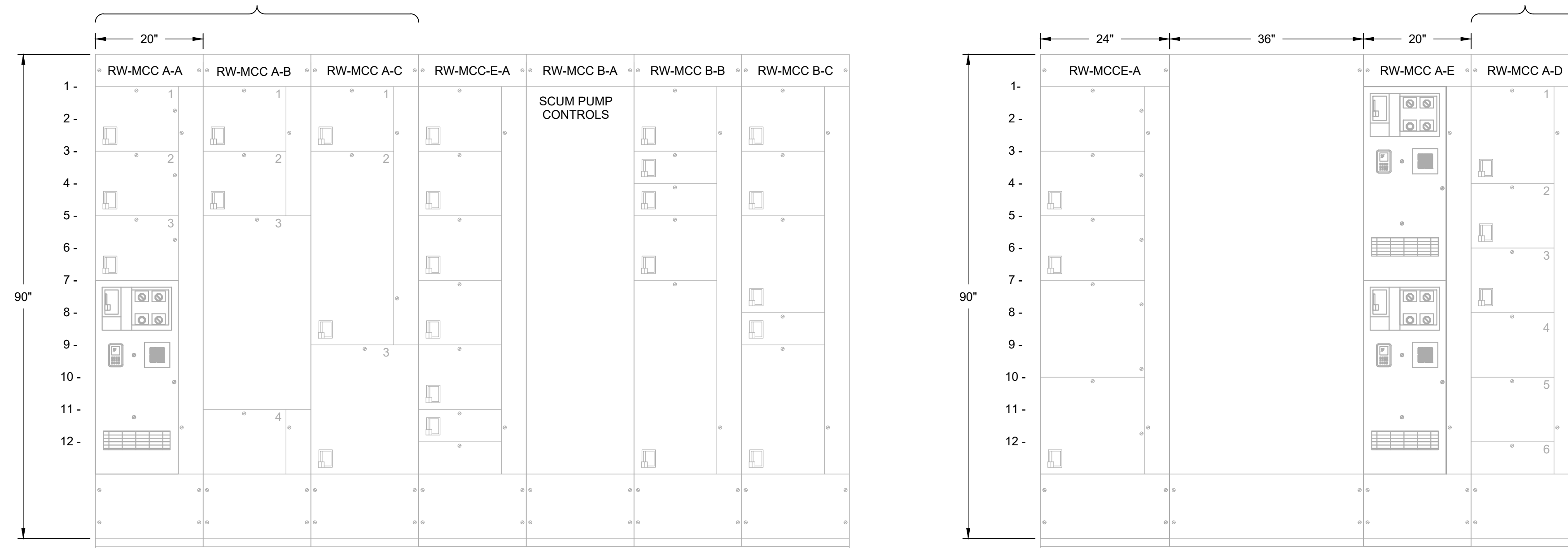
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SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238
2022 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. GE-OL-HW-03
ELECTRICAL		0 1"	SHEET NO.
HW-MCC-B REVISED		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	OF 108
ONE-LINE DIAGRAM - 2			

GENERAL NOTES:

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RW-MCC A ELEVATION

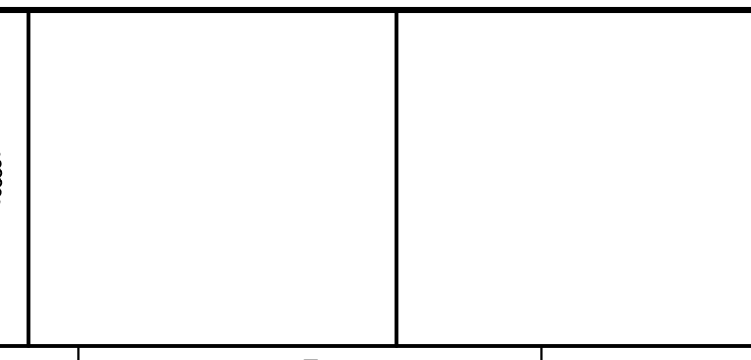
300A VERT. BUS	300A VERT. BUS	600A VERT. BUS
A1 - FAN RW-F-1	B1 - SCUM PUMP RW-MX-1	C1 - RAS PUMP PMP-1403
A2 - SCUM PUMP RW-P-10	B2 - AUTO TRANSFER SWITCH FEEDER	C2 - RAS PUMP PMP-1402
A3 - SCUM PUMP RW-P-11	B3 - AUTO TRANSFER SWITCH RW-ATS	C3 - MAIN FROM SUBSTATION ES3-2
A4 - WAS PUMP PMP-1603	B4 - FROM SG-EDB-5	

E1 - WAS PUMP PMP-1601	D1 - SPARE
E2 - WAS PUMP PMP-1602	D2 - RAS PUMP PMP-1401
	D3 - EDV-1610
	D4 - SPACE
	D5 - SPACE
	D6 - INCOMING LINE

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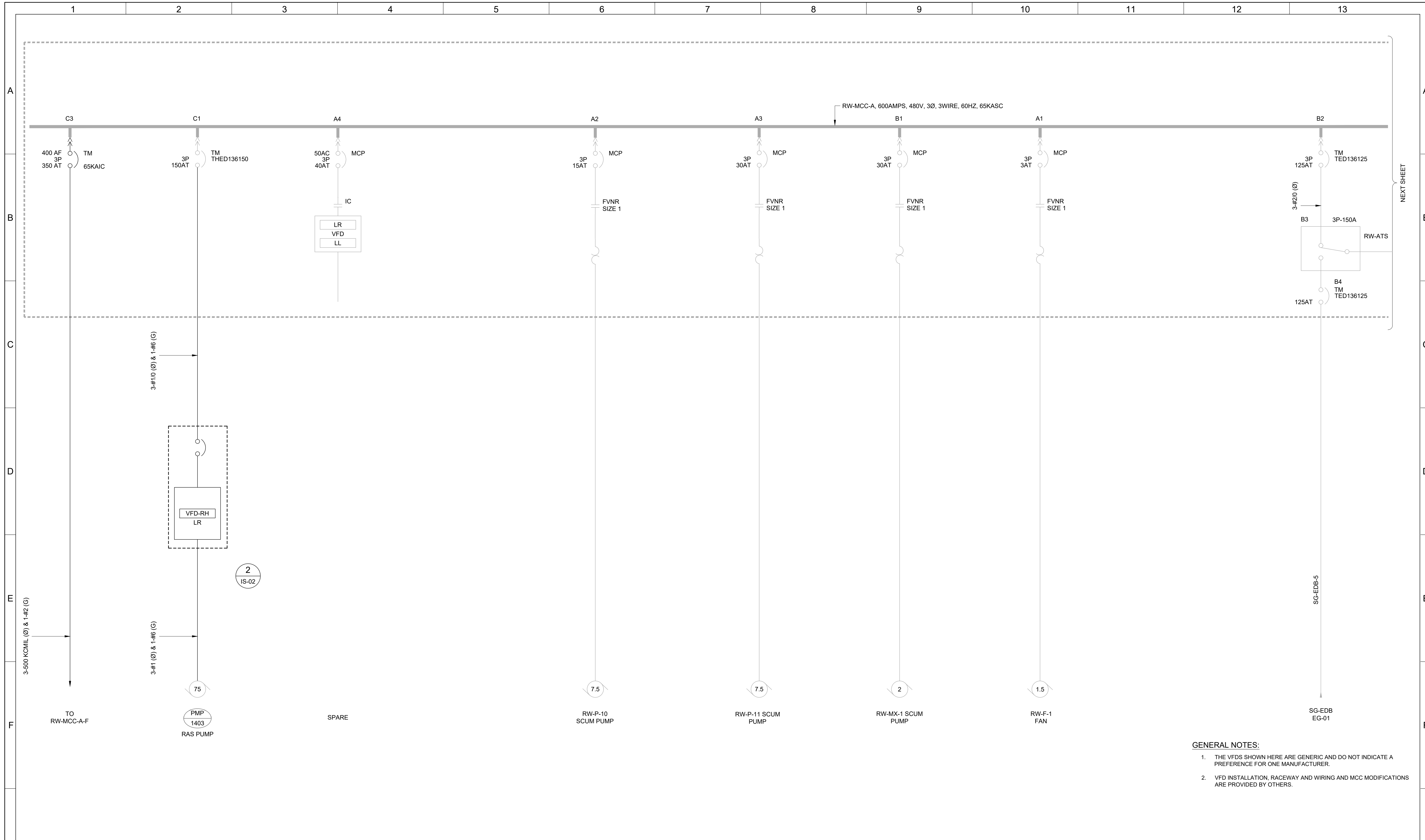
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SOUTH VALLEY WATER RECLAMATION
2022 VFD REPLACEMENT
ELECTRICAL
RW-MCC-A
REVISED ELEVATION

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-01 SHEET NO. OF 108
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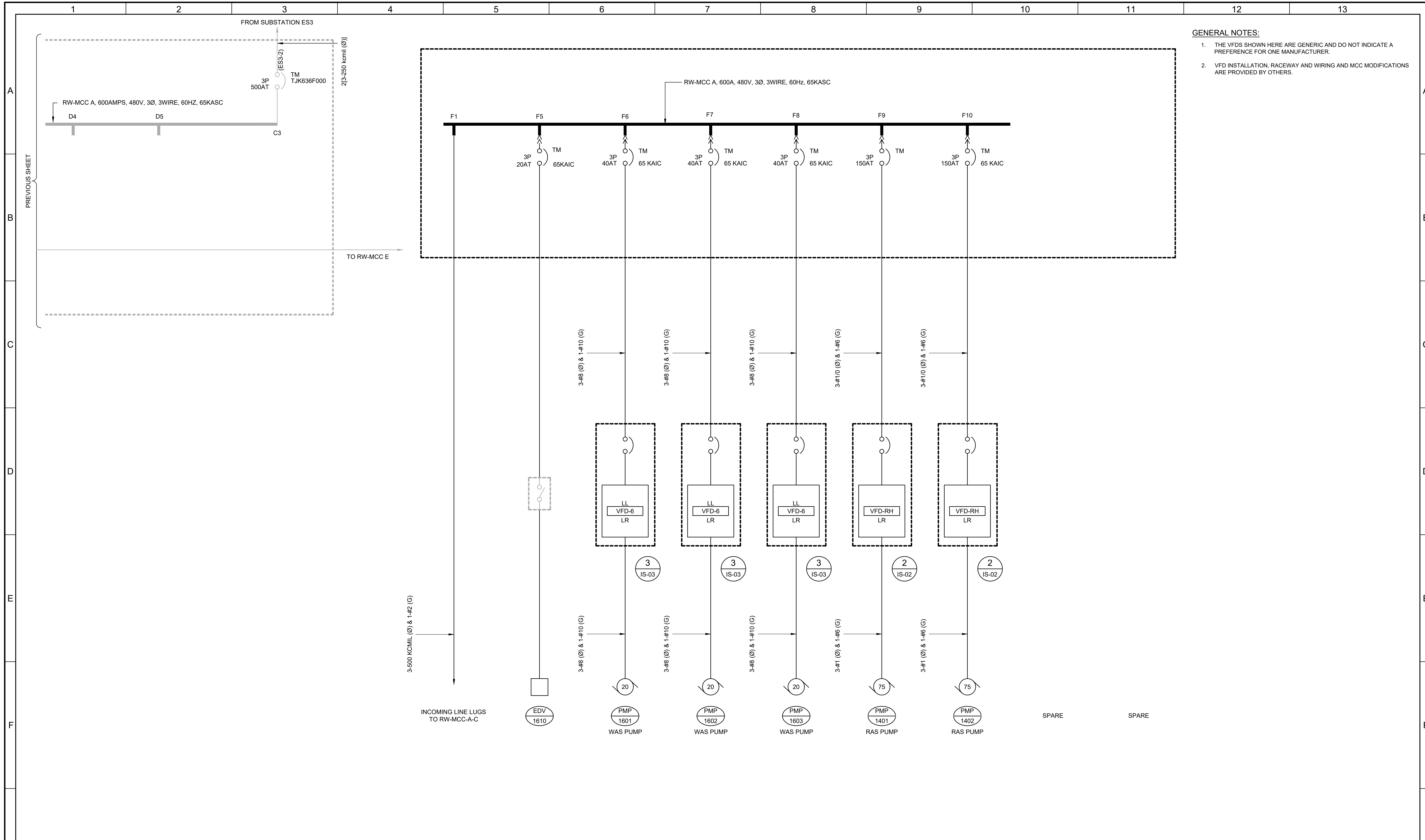
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SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238
2022 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. GE-OL-RW-02
ELECTRICAL		0 1" SCALE	SHEET NO.
RW-MCC-A		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	OF 108
REVISED ONE-LINE DIAGRAM - 1			



GENERAL NOTES:

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SOUTH VALLEY WATER RECLAMATION
2022 VFD REPLACEMENT
ELECTRICAL
RW-MCC-A
REVISED ONE-LINE DIAGRAM - 2

VERIFY SCALES
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JOB NO. 201238
DRAWING NO. GE-OL-RW-03
SHEET NO. OF 108