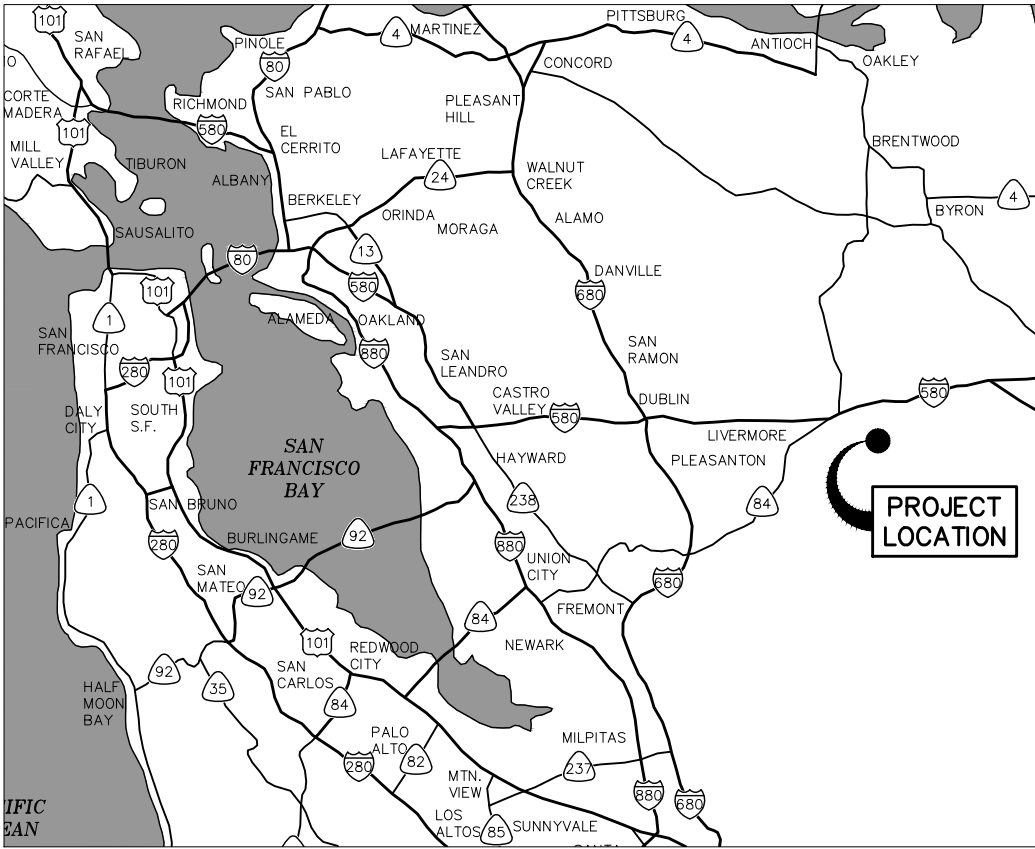




ZONE 7 WATER AGENCY
ALAMEDA COUNTY FLOOD
CONTROL AND WATER
CONSERVATION DISTRICT

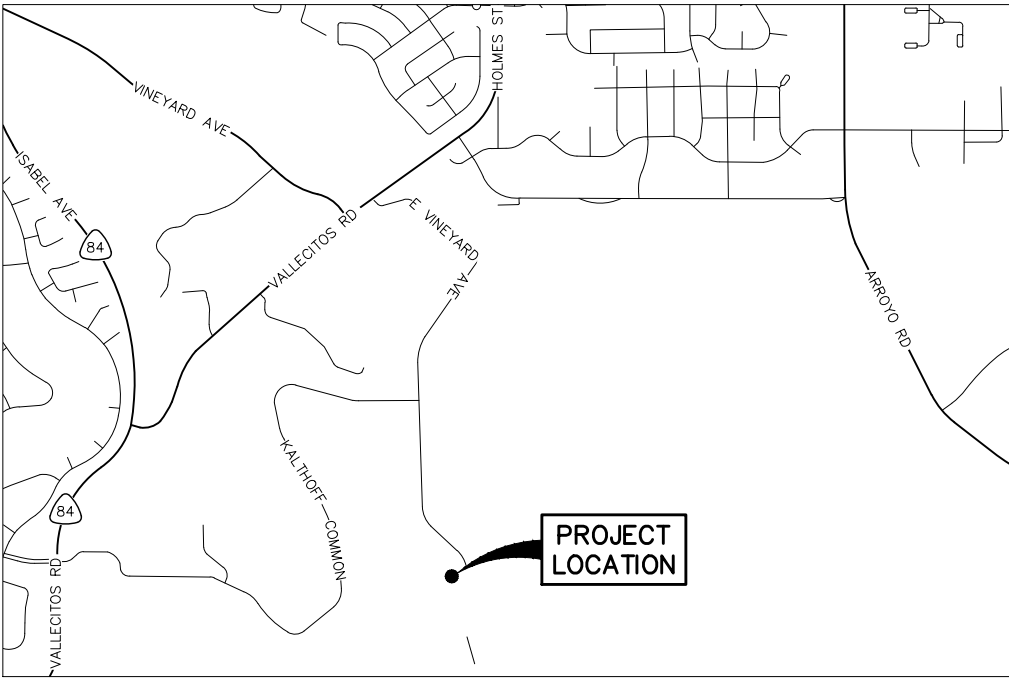
DEL VALLE WATER TREATMENT PLANT ELECTRICAL POWER SYSTEM AS-BUILTS AND MODIFICATIONS



VICINITY MAP
NO SCALE

PROJECT DRAWINGS

2015-2016



LOCATION PLAN
NO SCALE

RECORD DRAWINGS

REVISIONS DRAWN BY: ZONE 7 DATE: 05/21/2019

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWING.

RECORD DRAWINGS

Designed
Drawn
Checked
FILE No.



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

BAR IS ONE INCH
AT FULL SCALE
0 1"
IF NOT ONE INCH
SCALE ACCORDINGLY

DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS

GENERAL
TITLE SHEET, VICINITY MAP,
AND LOCATION MAP

Scale
AS NOTED
Drawing No.
G-01
Sheet No.
1 of 30
PROJECT No.
WC-266

Rev.	Date	By	Description
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS

Q:\Facilities\Treatment Plants\DVWTP\2016 (WC-266) DVWTP Electrical Power System As-Built and Modification\02-Design\Cad\Current\WC266-G-2.dwg

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GENERAL

SHT NO.	DWG NO.	TITLE
1	G-01	TITLE SHEET, VICINITY MAP, AND LOCATION MAP
2	G-02	INDEX OF DRAWING, ABBREVIATION AND SYMBOLS

ELECTRICAL

SHT NO.	DWG NO.	TITLE
3	E-01	SITE PLAN
4	E-02	ENLARGED SITE PLANS - 1
5	E-03	ENLARGED SITE PLANS - 2
6	E-04	ENLARGED SITE PLANS - 3
7	E-05	ENLARGED SITE PLANS - 4
8	E-06	ENLARGED SITE PLANS - 5
9	E-07	ENLARGED SITE PLANS - 6
10	E-08	MAIN SINGLE LINE DIAGRAM
11	E-09	SINGLE LINE DIAGRAM - 1
12	E-10	SINGLE LINE DIAGRAM - 2
13	E-11	SINGLE LINE DIAGRAM - 3
14	E-12	SINGLE LINE DIAGRAM - 4
15	E-13	SINGLE LINE DIAGRAM - 5
16	E-14	SINGLE LINE DIAGRAM - 6
17	E-15	SINGLE LINE DIAGRAM - 7
18	E-16	SINGLE LINE DIAGRAM - 8
19	E-17	SINGLE LINE DIAGRAM - 9
20	E-18	SINGLE LINE DIAGRAM - 10
21	E-19	SINGLE LINE DIAGRAM - 11
22	E-20	SINGLE LINE DIAGRAM - 12
23	E-21	SINGLE LINE DIAGRAM - 13
24	E-22	SINGLE LINE DIAGRAM - 14
25	E-23	SINGLE LINE DIAGRAM - 15
26	E-24	PANEL SCHEDULES - 1
27	E-25	PANEL SCHEDULES - 2
28	E-26	PANEL SCHEDULES - 3
29	E-27	PANEL SCHEDULES - 4
30	E-28	PANEL SCHEDULES - 5

REFERENCE DRAWING

REF NO.	FILE NO.	TITLE
R1	WC-170	DEL VALLE TREATMENT PLANT EXPANSION (RECORD DRAWING, FEB 1992)
R2	WC-207	DEL VALLE WATER TREATMENT PLANT BOOSTER PUMP STATION (AS-BUILT, DEC 2002)
R3	WC-213	DEL VALLE WATER TREATMENT PLANT SOLIDS HANDLING PROJECT (AS-BUILT)
R4	WR-005	LABORATORY AND SHOP ADDITION DEL VALLE WATER TREATMENT PLANT (AS-BUILT, MAR 1990)
R5		10 MGD DISSOLVED AIR FLOTATION FACILITY DEL VALLE TREATMENT PLANT (AS-BUILT, SEP 2005)
R6		DEL VALLE TREATMENT PLANT 300kW SOLAR TRACKER POWER SYSTEM (JUNE 2009)
R7	WC-241	DEL VALLE TREATMENT PLANT ELECTRICAL POWER SYSTEM UPGRADE PROJECT (SEPT 2011)
R8		DEL VALLE TREATMENT PLANT 500kW STANDBY GENERATOR PROJECT
R9	WC-274	DEL VALLE TREATMENT PLANT OZONATION PROJECT (CONFORMED, APRIL 2018)

ABBREVIATIONS

A	AMP(S)
ABAN	ABANDON
AC	ALTERNATING CURRENT OR AIR CONDITION
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ARV	AIR RELEASE VALVE
ATS	AUTOMATIC TRANSFER SWITCH
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BO	BLOWOFF
BPS	BOOSTER PUMP STATION
BV	BALL VALVE
CB	CIRCUIT BREAKER
CO	CLEAN OUT
CO2	CARBON DIOXIDE
COMP	COMPUTERS
CU	CONDENSER UNIT
DAF	DISSOLVED AIR FLOTATION
DC	DEL VALLE WATER TREATMENT PLANT
DIST	DISTRIBUTION
DP	DISTRIBUTION PANEL
DWG	DRAWING
EF	EXHAUST FAN
ELEC	ELECTRICAL
FD	FLOOR DRAIN
FH	FIRE HYDRANT
FI	FLOW INDICATOR
FIT	FLOW INDICATOR TRANSMITTER
GFI	GROUND FAULT INTERRUPTER
HB	HOSE BIBB
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HWP	HOT WATER PUMP
HYPO	SODIUM HYDROCHLORIDE
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KW	KILOWATT
LCP	LOCAL CONTROL PANEL
MH	MANHOLE
MOV	MOTOR CONTROL VALVE
PG&E	PACIFIC GAS AND ELECTRIC
PH OR ϕ	PHASE
PMP	PUMP
PNL	PANEL
PV	PLUG VALVE
REF	REFERENCE
SSRS	SOLID STATE REDUCED VOLTAGE STARTER
SYM	SYMMETRICAL
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SYSTEM
V	VOLT(S)
VFD	VARIABLE FREQUENCY DRIVE
VLV	VALVE
W/	WITH
WH	WHARF HYDRANT
WP	WEATHERPROOF
XFMR	TRANSFORMER
3W	3 WIRES

SYMBOLS

	SIZE 2 COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER MCP SIZE BY MANUFACTURE (OVERLOD RELAY NOT SHOWN) RV = REDUCED VOLTAGE 2S2W = TWO-SPEED TWO-WINDIND 2 = SIZE 2		DOUBLE THROW SAFETY SWITCH
	4XX - CIRCUIT IDENTIFACATION		JUNCTION BOX
	THERMAL OVERLOAD RELAY		RELAY CONTACT COIL NORMALLY OPEN
	ELECTRICAL MOTOR OPERATED VALVE W/ INTEGRATED REVERSING STARTER AND LOCAL CONTROL PANEL. MOTOR 0.5 HP NOTED.		MAGNETIC STARTED OR CONTACTOR 1 - SIZE 1 FULL VOLTAGE NON-REVERSING STARTER 2 - SIZE 2 FULL VOLTAGE NON-REVERSING STARTER 1R - SIZE 1 FULL VOLTAGE REVERSING STARTER 1C - SIZE 1 CONTACTOR 2C - SIZE 2 CONTACTOR LC - LATCHING CONTACTOR 2S2W - TWO SPEED, TWO WINDING
	POWER TRANSFORMER		
	CURRENT TRANSFORMER WITH RATIO AND NUMBER OF UNITS		
	MAIN SERVICE METER (BY UTILITY COMPANY)		
	SURGE SUPPRESSION SYSTEM		
	MULTI-FUNCTION ELECTRONIC METER		
	MOTOR WITH HP NOTED		
	DESEL GENERATOR		
	CIRCUIT BREAKER, 3 POLE, UON, RATING IN AMPS		
	MCP - MOTOR CONTROL PROTCTOR AF - FRAME SIZE (225 AMPS MNOTED) AT - TRIP RATING (125 AMPS NOTED)		
	AUTOMATED TRANSFER SWITCH		
	GROUND CONNECTION		
	DISCONNECT SWITCH, FUSED		
	FUSE		
	DISCONNECT SWITCH		
	COMBINATION STARTER, DISCONNECT SWITCH		

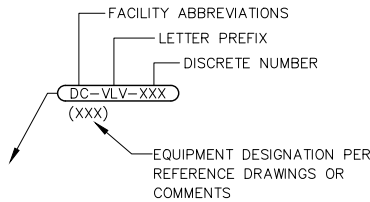
TYPICAL SECTION NUMBERING SYSTEM

- 1) DWG MD101 (WHERE THE SECTION IS TAKEN):
- 2) DWG MD201 (WHERE THE SECTION APPEARS):
- 3) THIS SECTION APPEARS ON THE SAME DWG IT IS TAKEN FROM:

TYPICAL DETAIL NUMBERING SYSTEM

- 1) DWG C-004 (WHERE THE DETAIL IS TAKEN):
- 2) DWG MC101 (WHERE THE DETAIL APPEARS):
- 3) THIS DETAIL APPEARS ON THE SAME DWG IT IS TAKEN FROM:

EQUIPMENT DESIGNATION SYSTEM

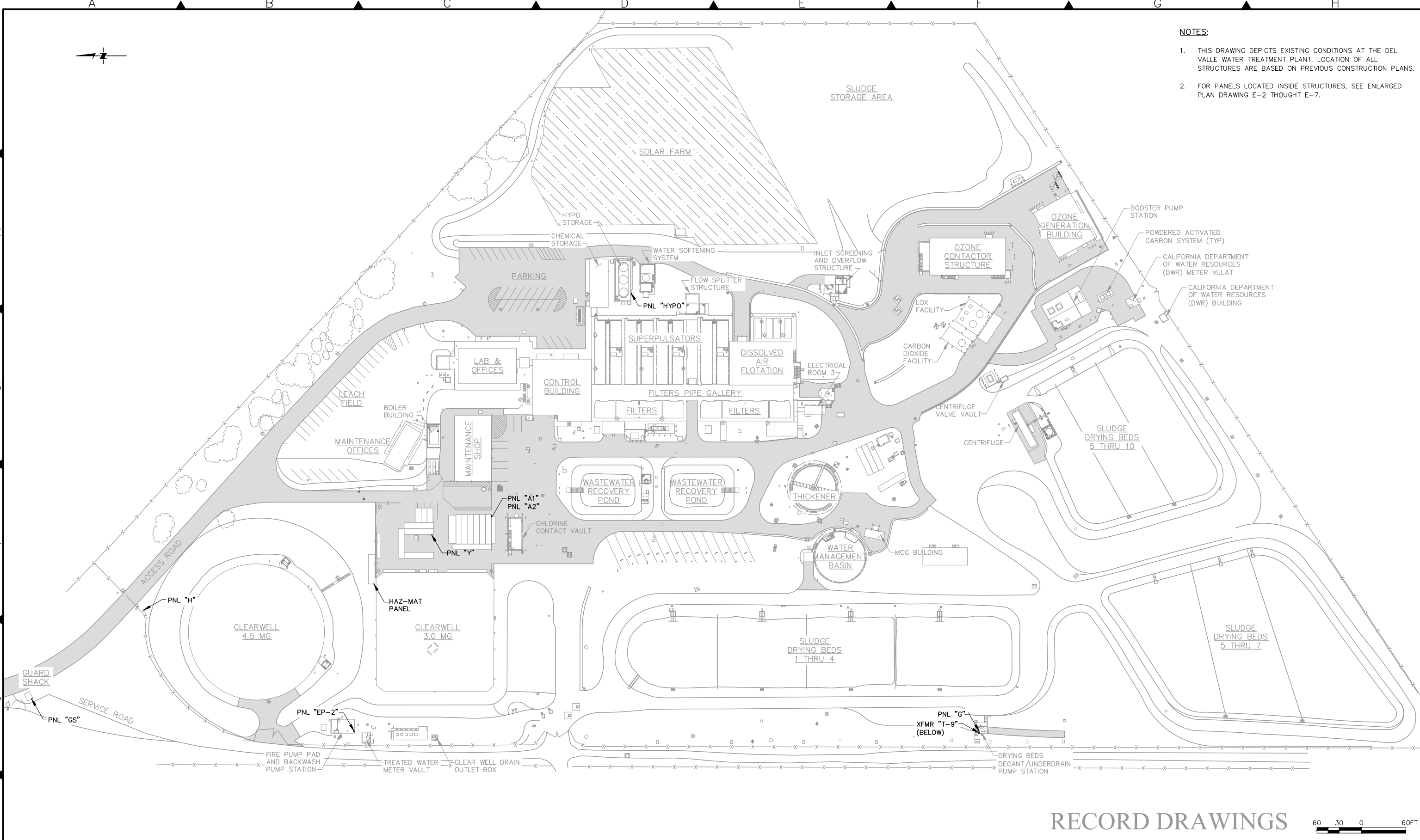


RECORD DRAWINGS

					Designed	 <div>ZONE 7 WATER AGENCY 100 North Canyons Parkway Livermore California, 94551</div>	BAR IS ONE INCH AT FULL SCALE <div><div></div><div></div><div></div><div></div><div></div></div> 1" IF NOT ONE INCH SCALE ACCORDINGLY	DEL VALLE WATER TREATMENT PLANT ELECTRICAL POWER SYSTEM AS-BUILTS AND MODIFICATIONS	Scale	NONE
				Drawn	JH				Drawing No.	G-02
				Checked	TB				Sheet No.	2 of 30
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION	FILE No.					PROJECT No.	WC-266
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS							
Rev.	Date	By	Description					GENERAL INDEX OF DRAWINGS, ABBREVIATION AND SYMBOLS		

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- NOTES:**
1. THIS DRAWING DEPICTS EXISTING CONDITIONS AT THE DEL VALLE WATER TREATMENT PLANT. LOCATION OF ALL STRUCTURES ARE BASED ON PREVIOUS CONSTRUCTION PLANS.
 2. FOR PANELS LOCATED INSIDE STRUCTURES, SEE ENLARGED PLAN DRAWING E-2 THROUGHT E-7.

60 30 0 60FT

				Designed			ZONE 7 WATER AGENCY 100 North Canyons Parkway Livermore California, 94551	BAR IS ONE INCH AT FULL SCALE 0 1" IF NOT ONE INCH SCALE ACCORDINGLY	DEL VALLE WATER TREATMENT PLANT ELECTRICAL POWER SYSTEM AS-BUILTS AND MODIFICATIONS	CIVIL	SITE PLAN	Scale 1"=60' Drawing No. E-01 Sheet No. 3 of 30 PROJECT No. WC-266
				Drawn JH								
				Checked TB								
				FILE No.								
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION									
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS									
Rev.	Date	By	Description									

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Rev.	Date	By	Description
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
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Designed
Drawn JH
Checked TB
FILE No.



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

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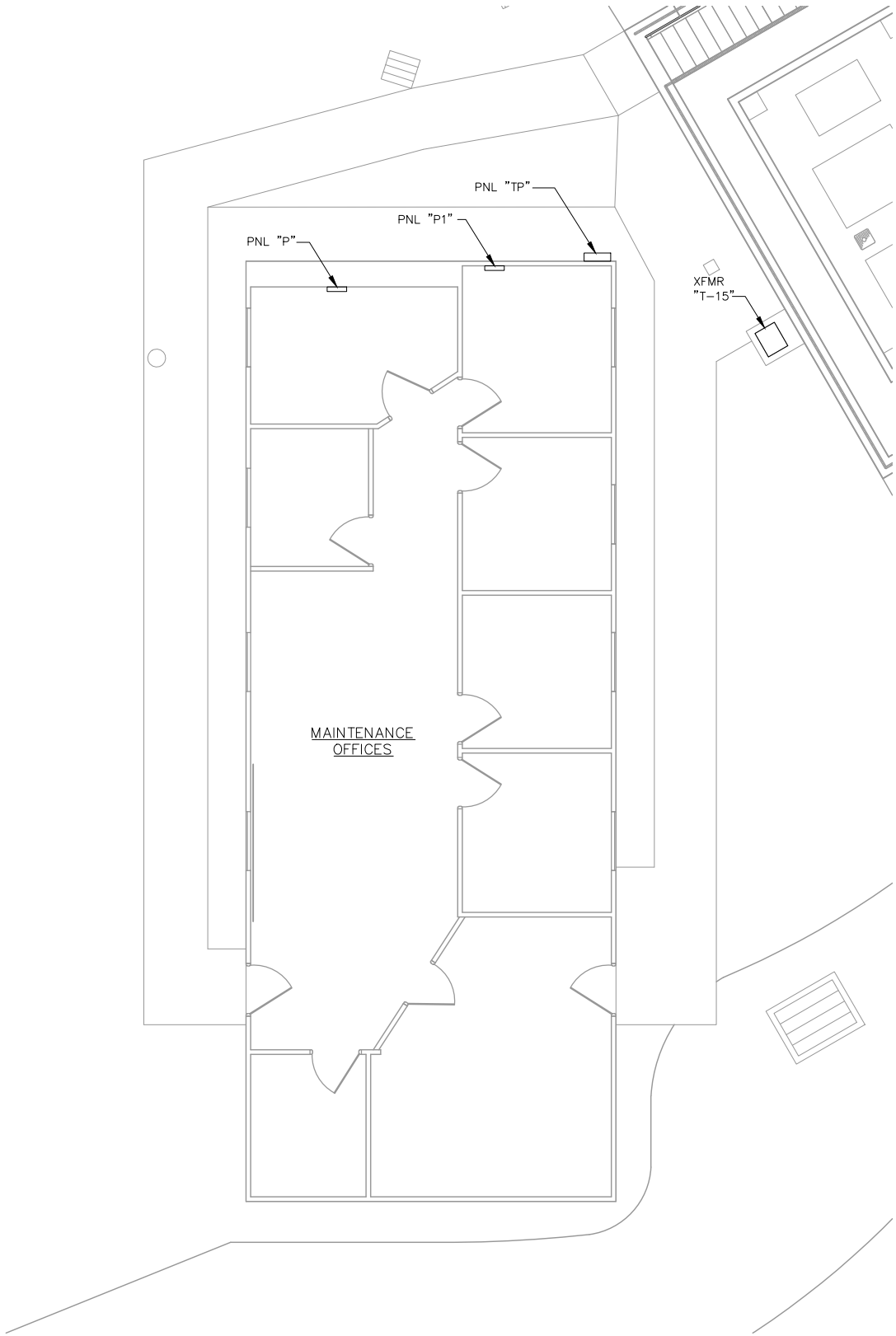
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POWER SYSTEM AS-BUILTS AND MODIFICATIONS**

ELECTRICAL

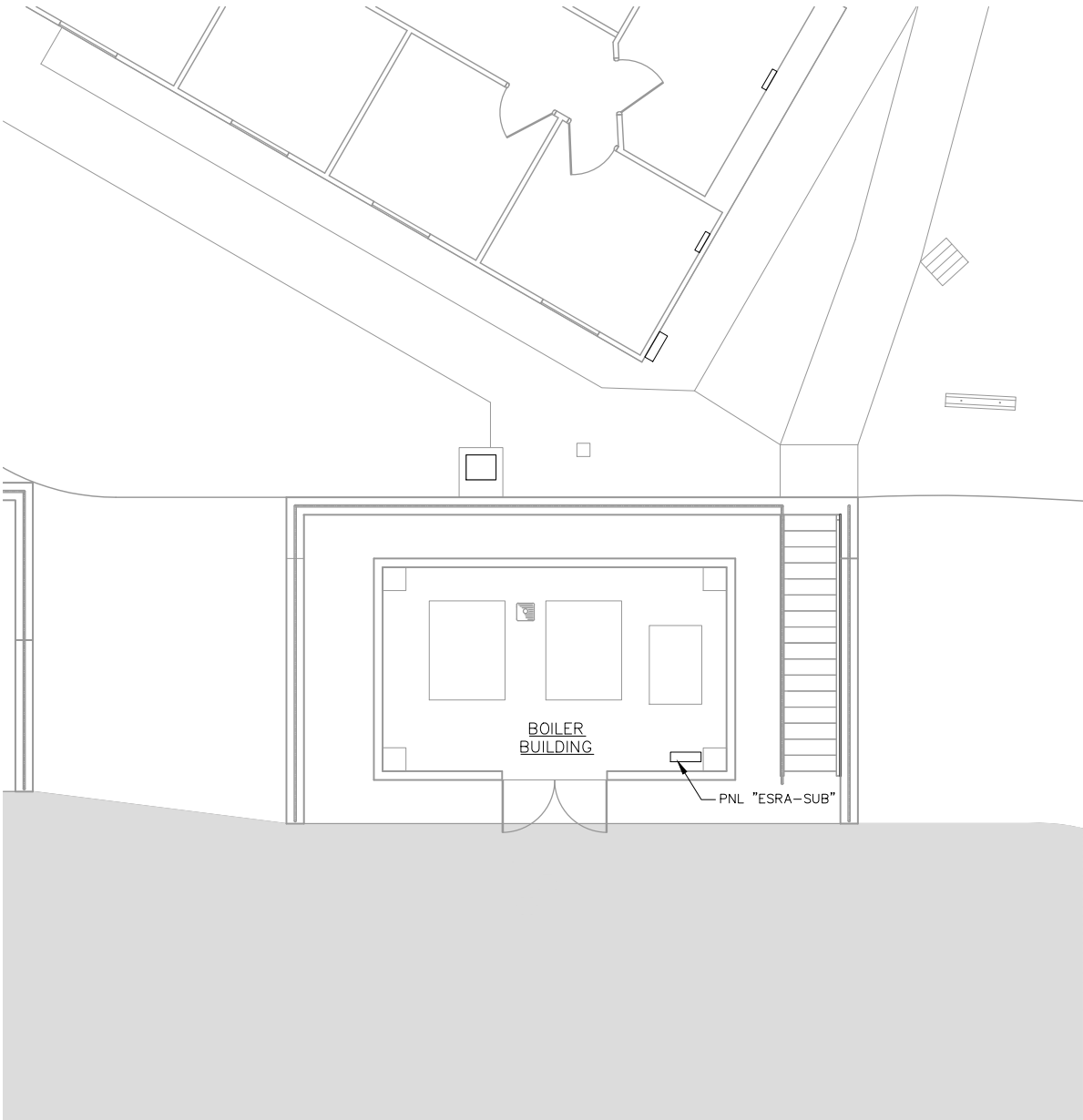
ENLARGED SITE PLAN - 1

Scale AS NOTED
Drawing No. E-02
Sheet No. 4 of 30
PROJECT No. WC-266

ENLARGED PLAN - MAINTENANCE TRAILER
SCALE 1:5



ENLARGED PLAN - BOILER BUILDING
SCALE 1:5



RECORD DRAWINGS

Q:\Facilities\Treatment Plants\DVWTP\2016 (WC-266) DVWTP Electrical Power System As-Built and Modification\02-Design\Cad\Current\WC266-E-2 THRU E-7.dwg

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Rev.	Date	By	Description
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS

Designed
Drawn JH
Checked TB
FILE No.



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

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**DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS**

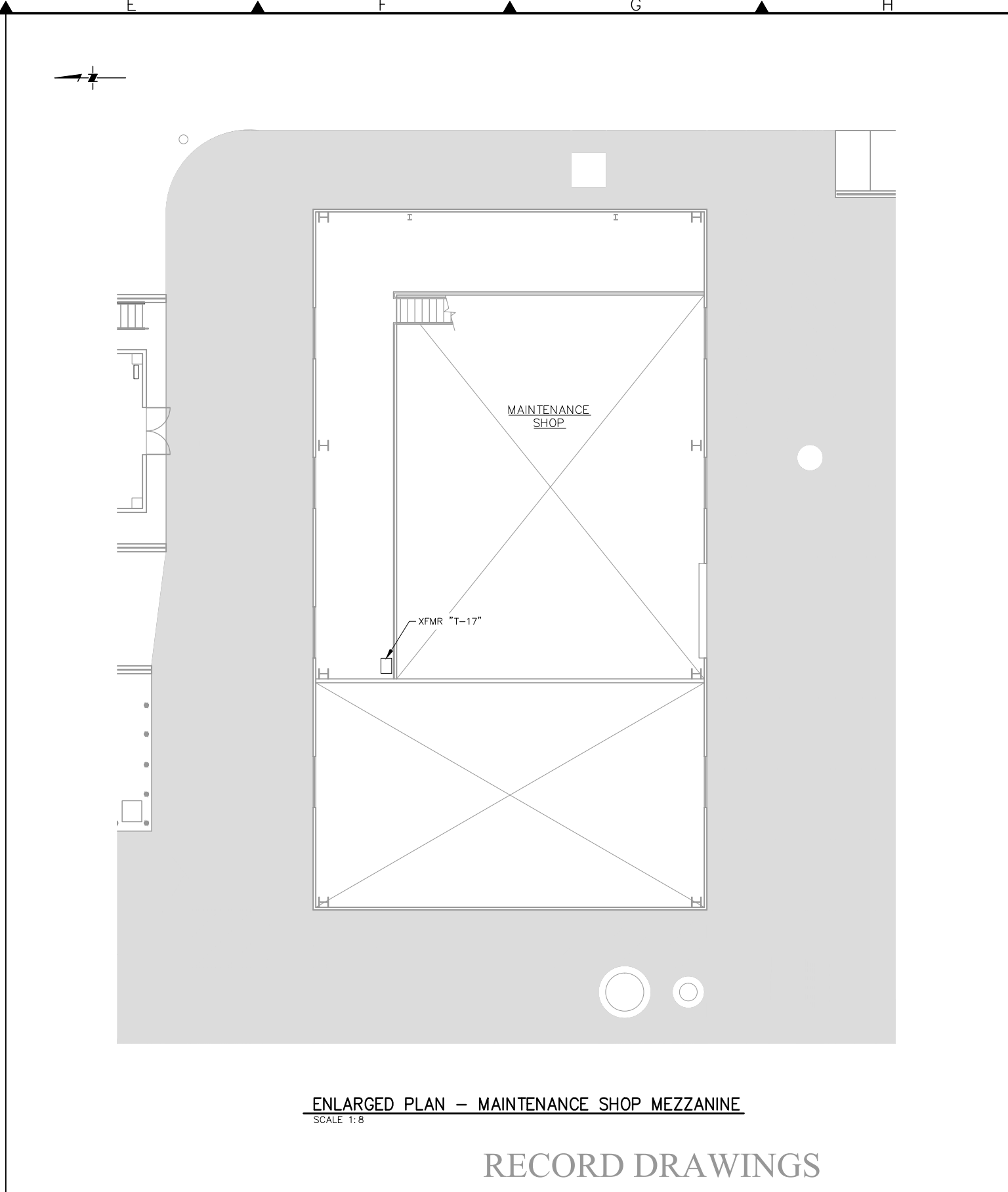
ELECTRICAL

ENLARGED SITE PLAN - 2

Scale AS NOTED
Drawing No. E-03
Sheet No. 5 of 30
PROJECT No. WC-266



ENLARGED PLAN - MAINTENANCE SHOP MAIN FLOOR
SCALE 1:8



ENLARGED PLAN - MAINTENANCE SHOP MEZZANINE
SCALE 1:8

RECORD DRAWINGS

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Rev.	Date	By	Description
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1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS

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FILE No.



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

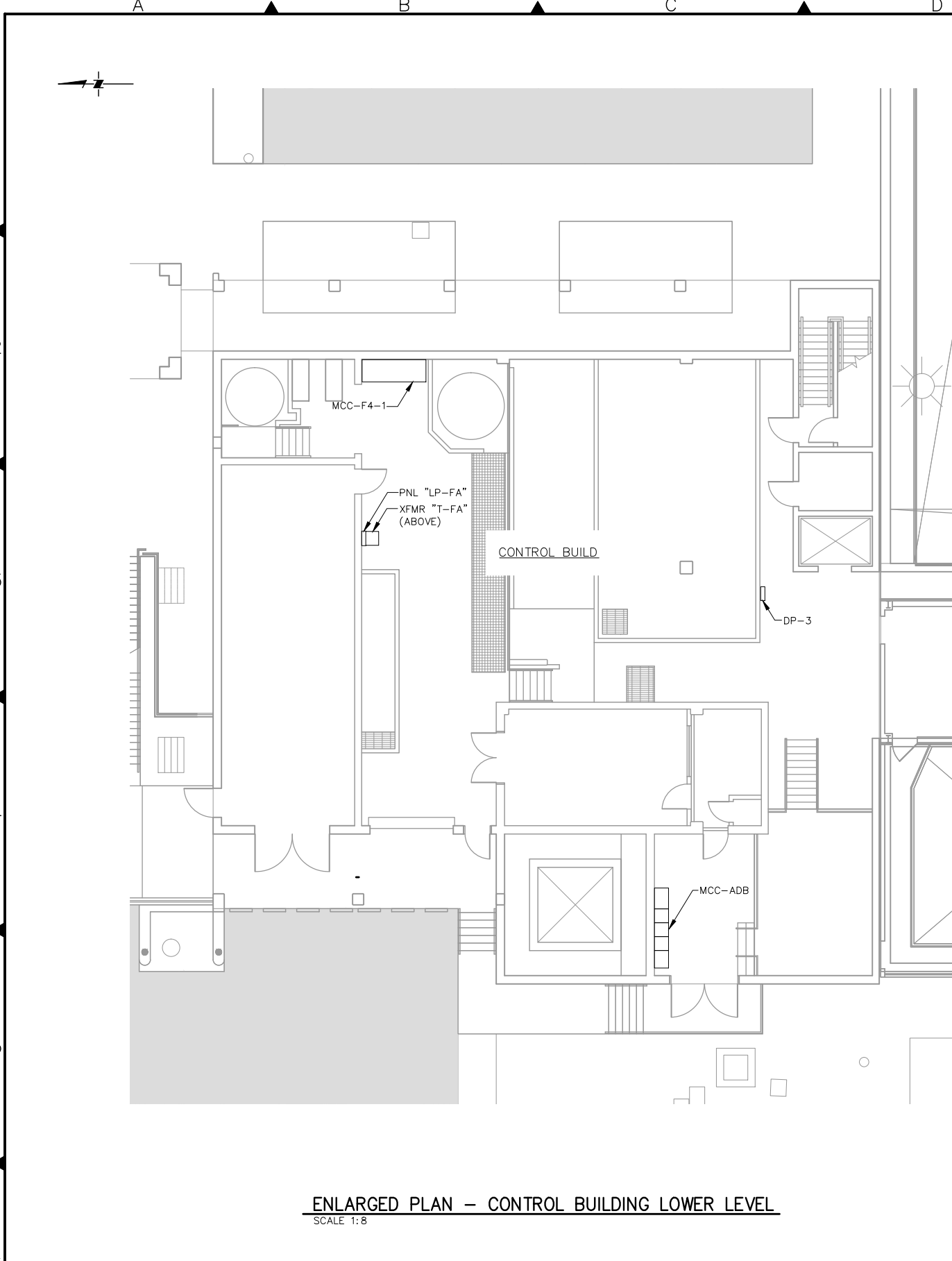
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SCALE ACCORDINGLY

**DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS**

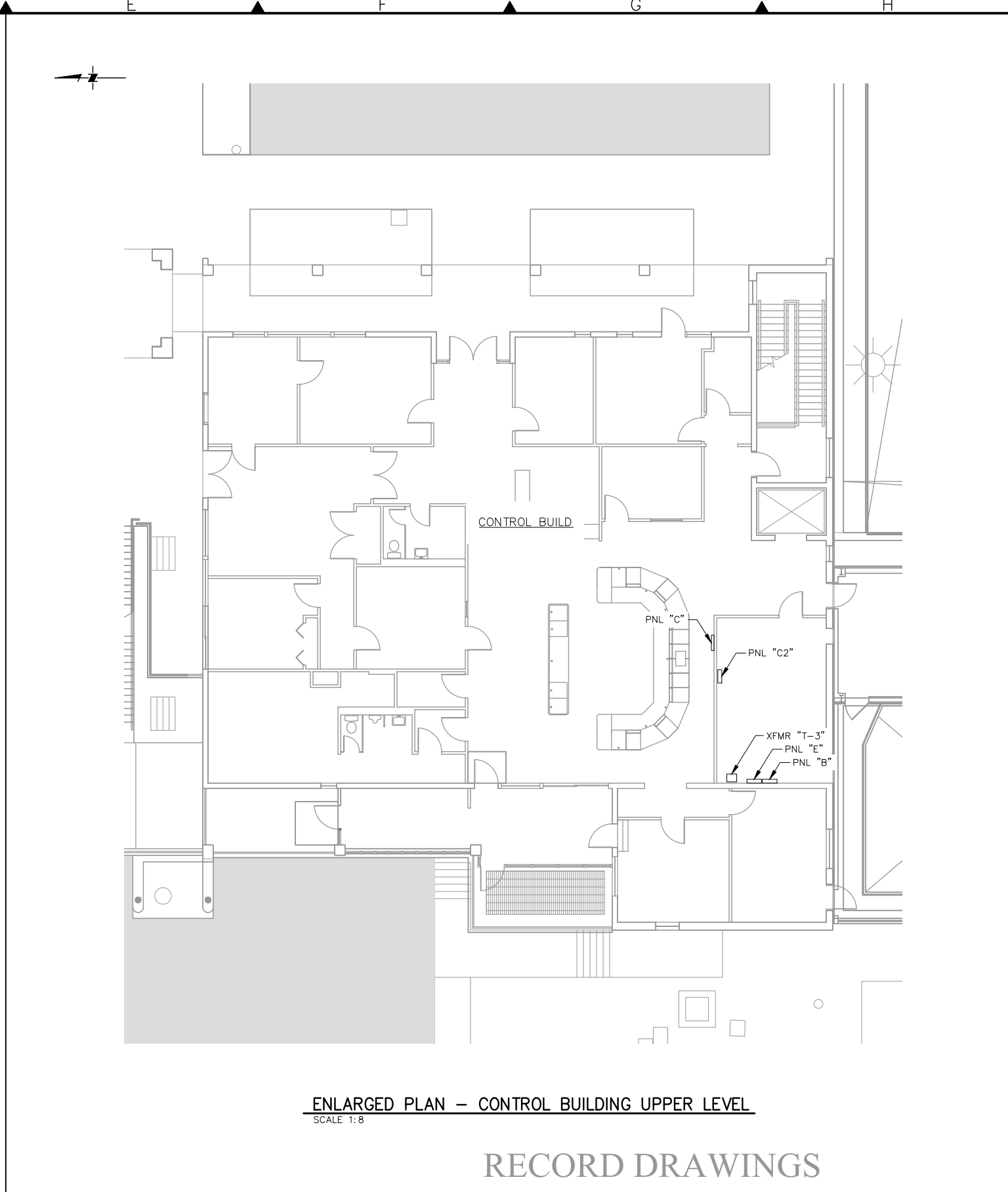
ELECTRICAL

ENLARGED SITE PLAN - 3

Scale AS NOTED
Drawing No. E-04
Sheet No. 6 of 30
PROJECT No. WC-266



ENLARGED PLAN - CONTROL BUILDING LOWER LEVEL
SCALE 1:8

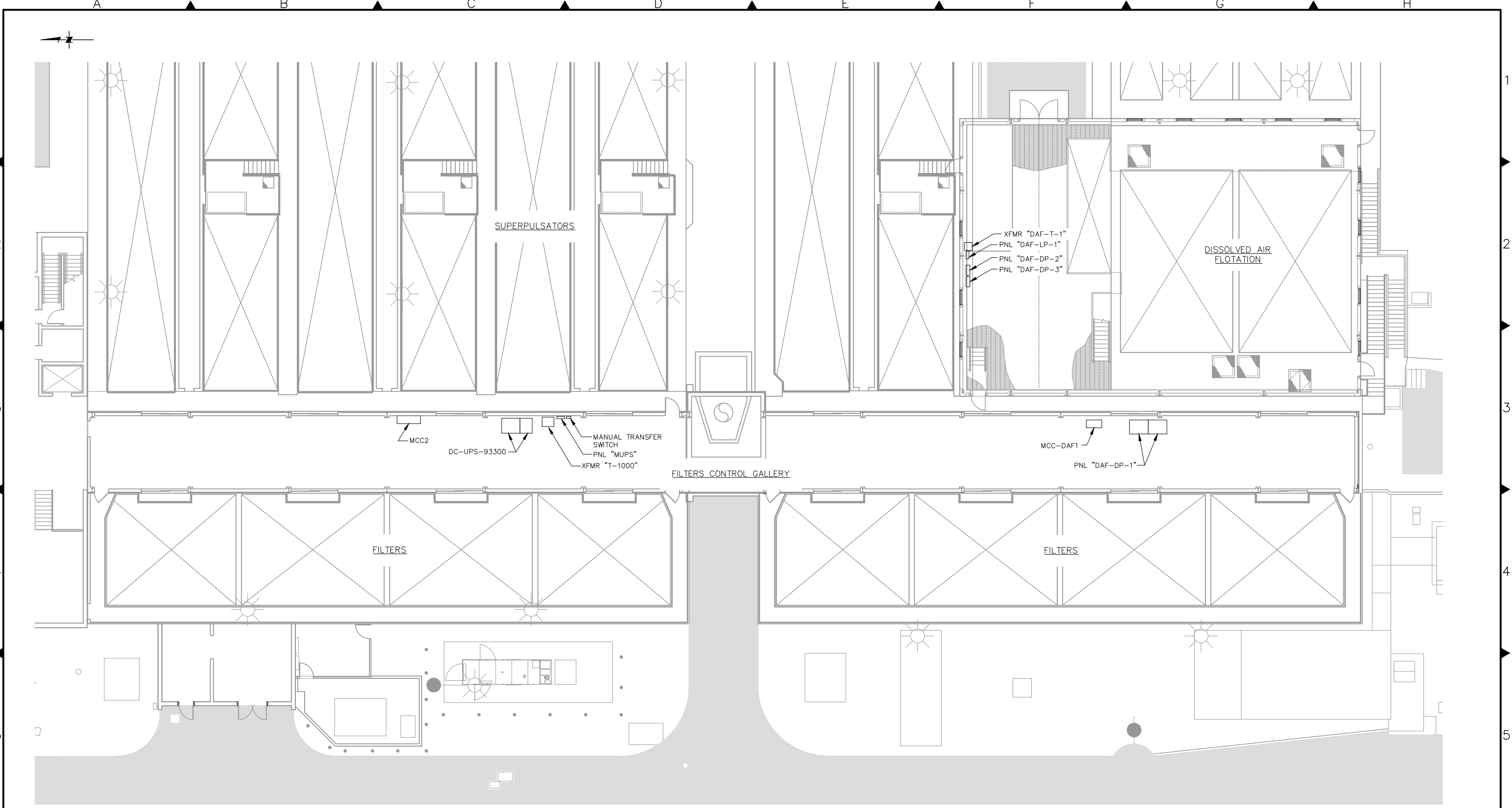


ENLARGED PLAN - CONTROL BUILDING UPPER LEVEL
SCALE 1:8

RECORD DRAWINGS

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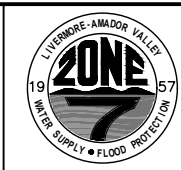


ENLARGED PLAN – CONTROL BUILDING UPPER LEVEL
SCALE 1:10

RECORD DRAWINGS

Rev.	Date	By	Description
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS

Designed	
Drawn	JH
Checked	TB
FILE No.	



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

BAR IS ONE INCH
AT FULL SCALE
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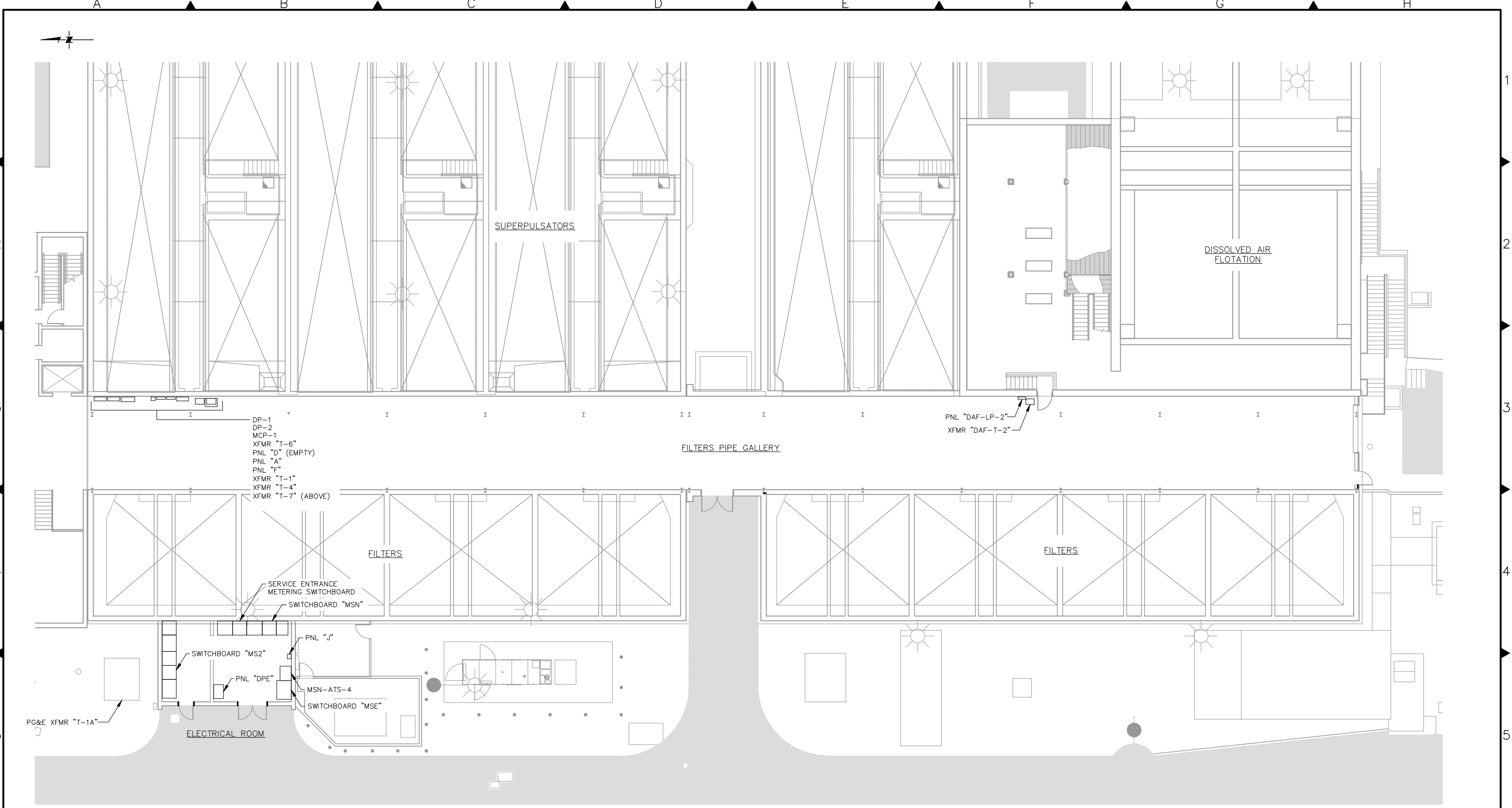
**DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS**

ELECTRICAL
ENLARGED SITE PLAN – 4

Scale	AS NOTED
Drawing No.	E-05
Sheet No.	7 of 30
PROJECT No.	WC-266

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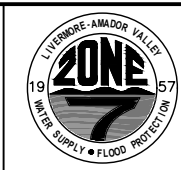


ENLARGED PLAN - CONTROL BUILDING LOWER LEVEL
SCALE 1:10

RECORD DRAWINGS

Rev.	Date	By	Description
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS

Designed	
Drawn	JH
Checked	TB
FILE No.	



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

BAR IS ONE INCH
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0 1"
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SCALE ACCORDINGLY

DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS

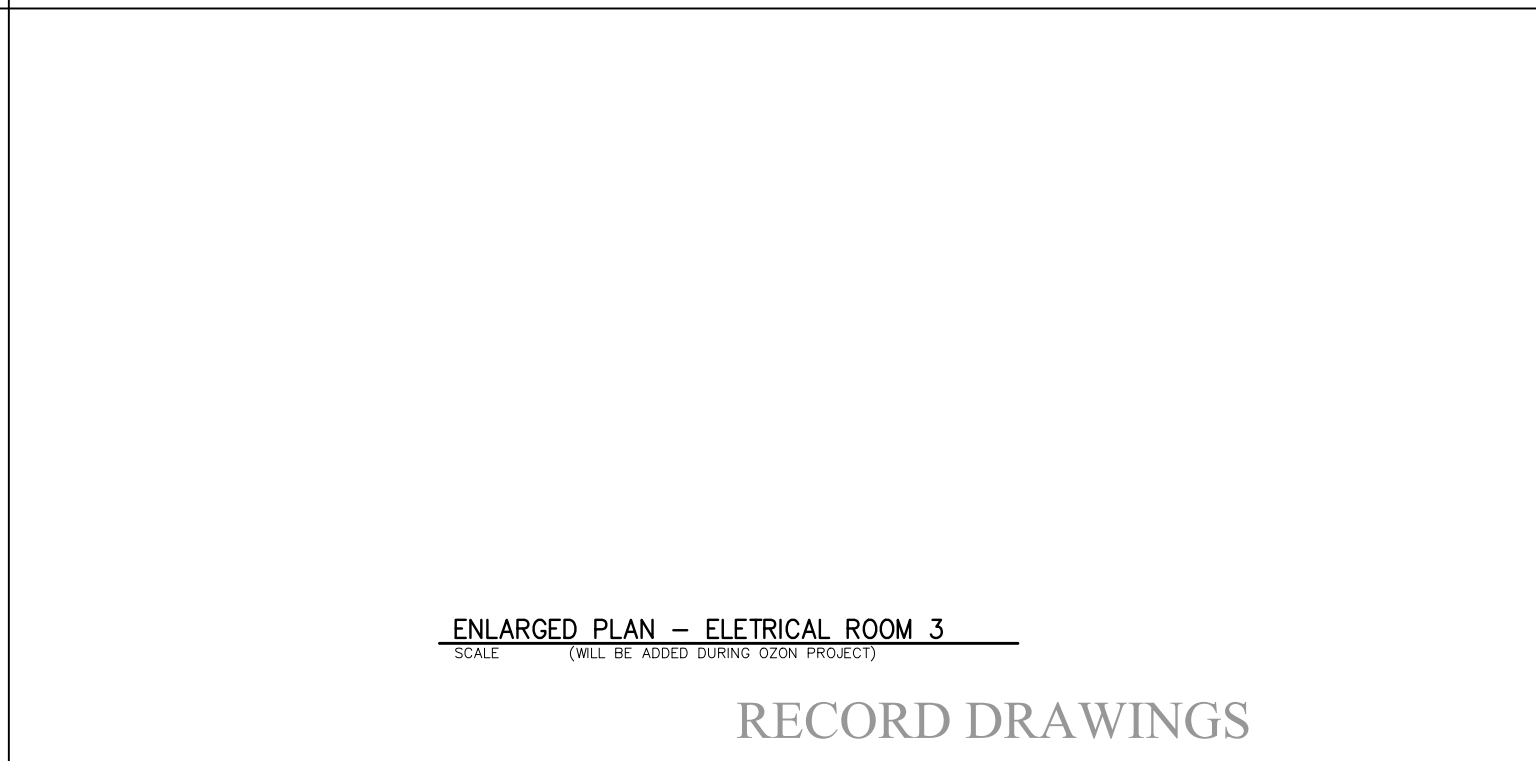
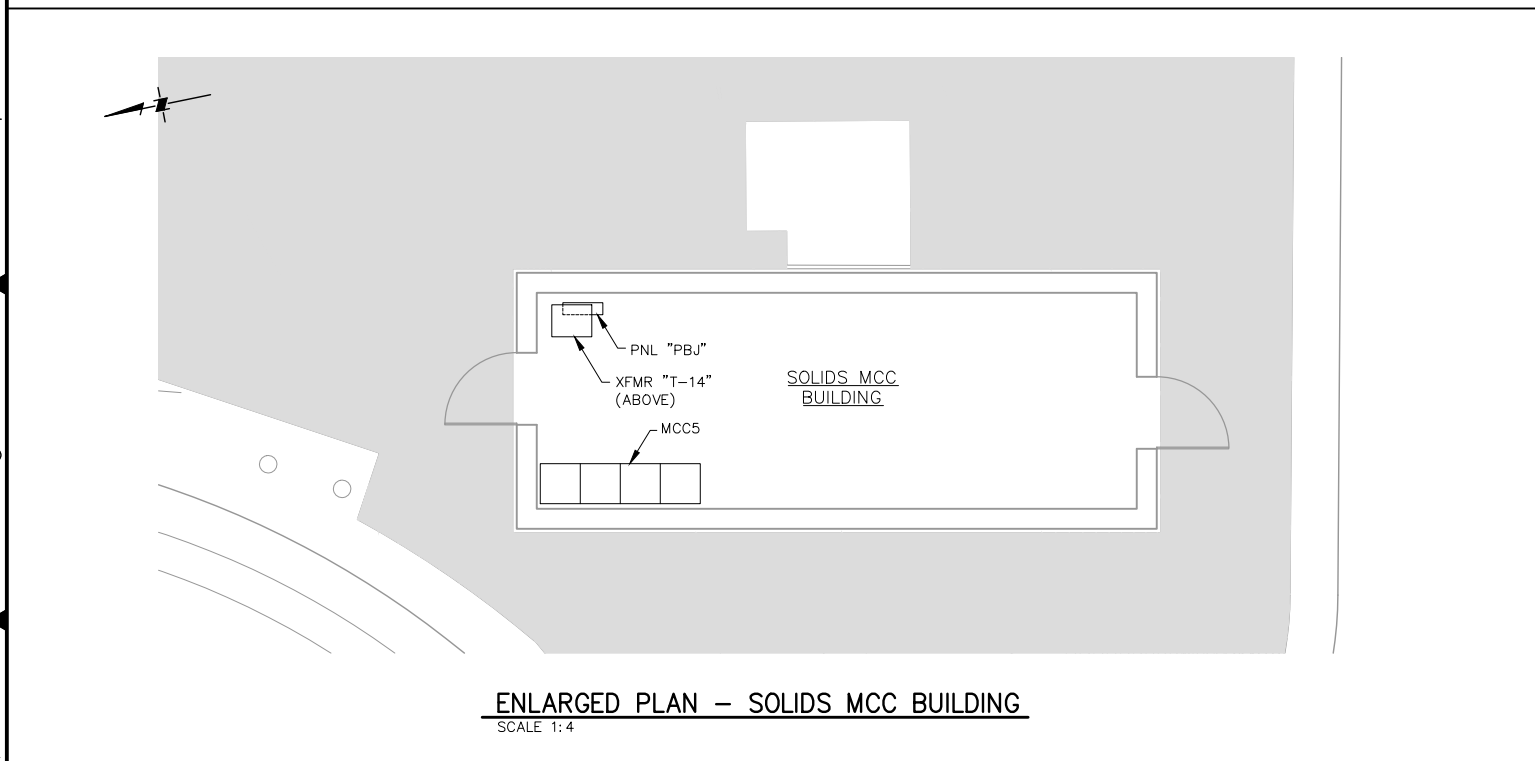
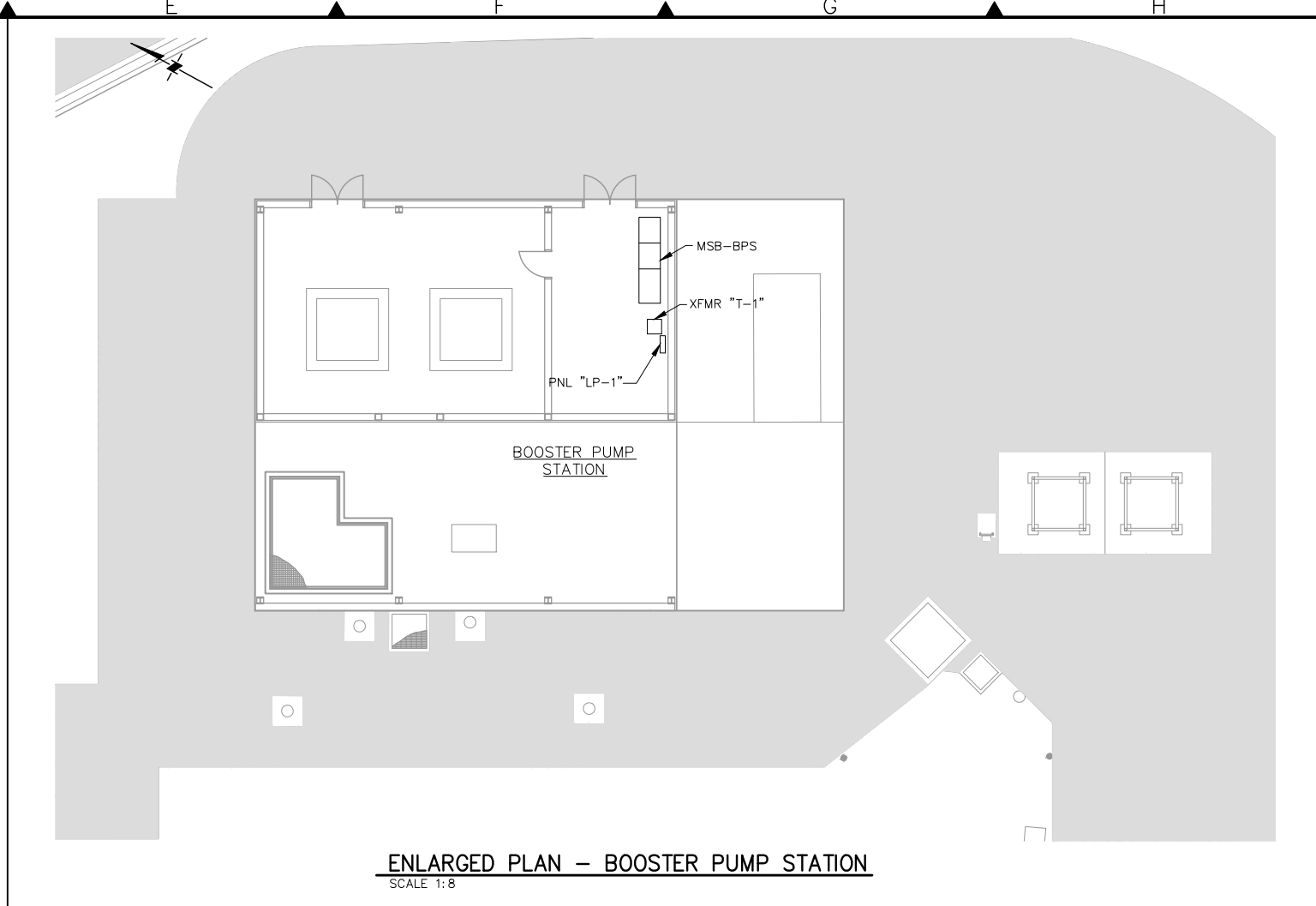
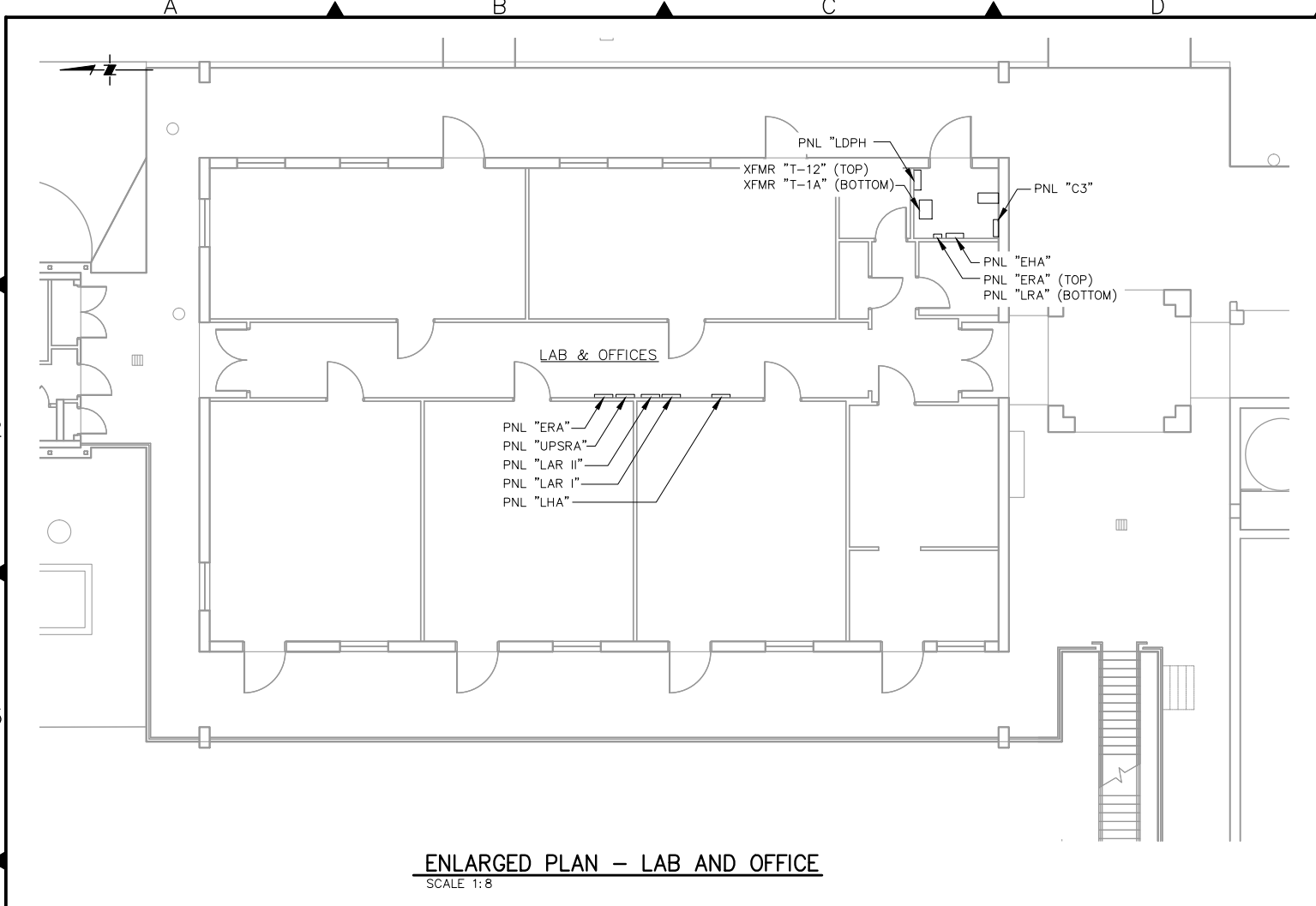
ELECTRICAL

ENLARGED SITE PLAN - 5

Scale	AS NOTED
Drawing No.	E-06
Sheet No.	8 of 30
PROJECT No.	WC-266

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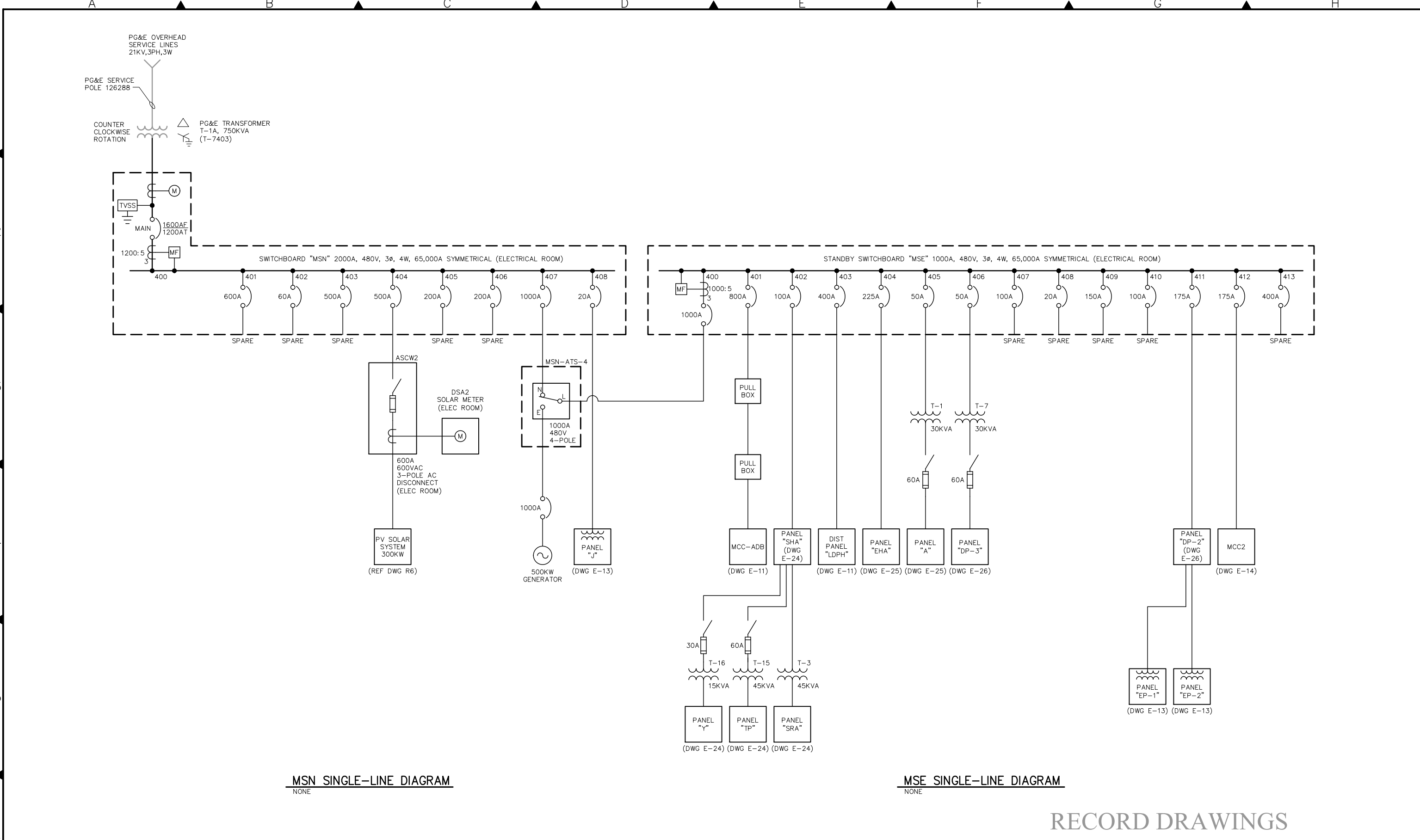


RECORD DRAWINGS

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2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION		Checked TB				Sheet No. 9 of 30
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS		FILE No.				PROJECT No. WC-266
Rev.	Date	By	Description				ELECTRICAL		
							ENLARGED SITE PLAN – 6		

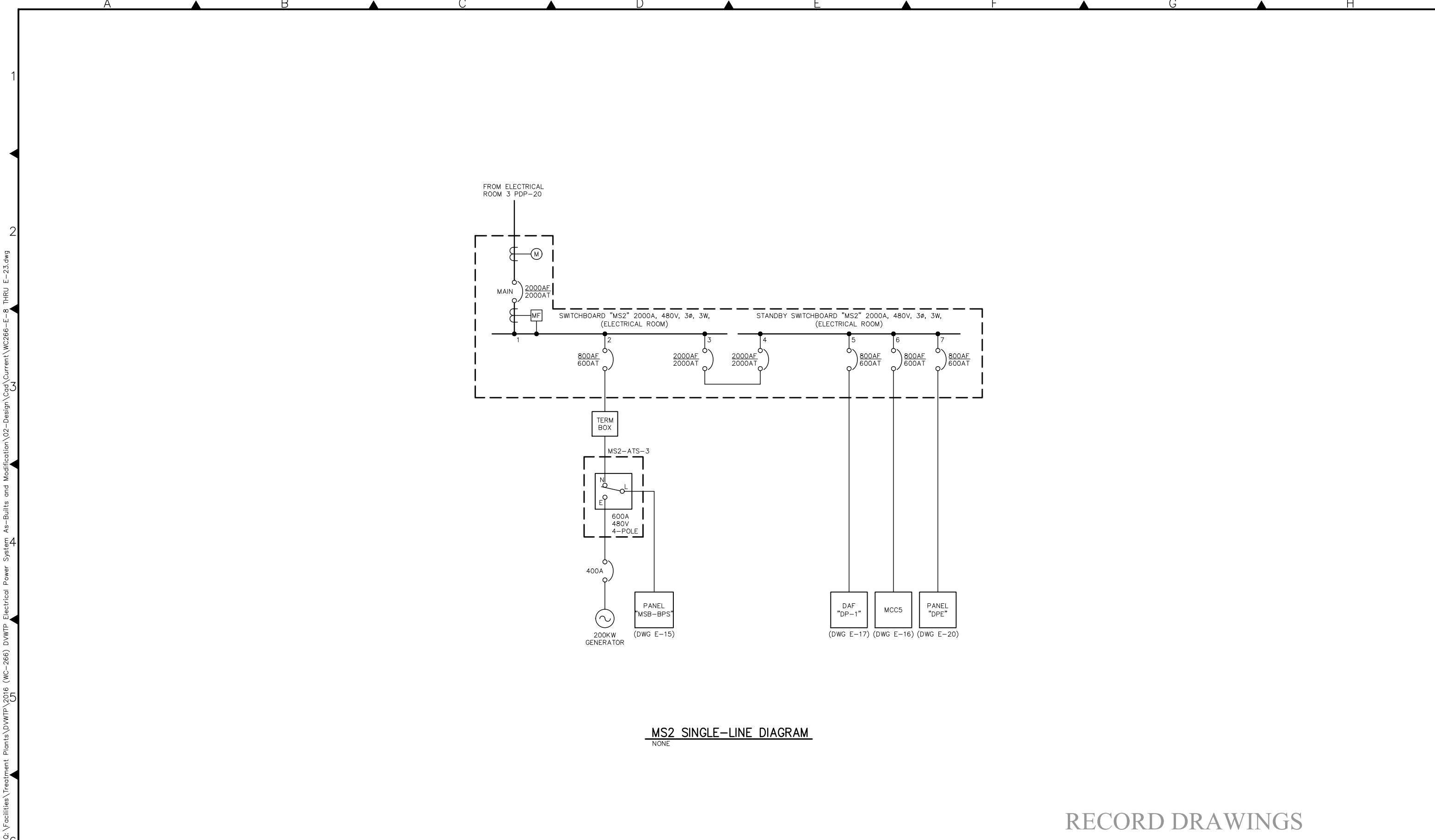
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RECORD DRAWINGS

				<div>Designed</div> <div>Drawn JH</div> <div>Checked TB</div> <div>FILE No.</div>	<div><div>ZONE 7 WATER AGENCY</div><div>100 North Canyons Parkway Livermore California, 94551</div></div>	<div>BAR IS ONE INCH AT FULL SCALE</div> <div></div> <div>IF NOT ONE INCH SCALE ACCORDINGLY</div>	<div>DEL VALLE WATER TREATMENT PLANT ELECTRICAL POWER SYSTEM AS-BUILTS AND MODIFICATIONS</div>		Scale NONE	
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2 02/17/2022 JH MODIFICATIONS DURING OZONE CONSTRUCTION									Sheet No. 11 of 30	
1 05/20/2019 JH MODIFICATIONS DURING INSTALLATION OF NEW UPS									PROJECT No. WC-266	
Rev.	Date	By	Description						SINGLE LINE DIAGRAM – 1	
			A	B	C	D	E	F	G	H



MS2 SINGLE-LINE DIAGRAM

NONE

RECORD DRAWINGS

2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
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Rev.	Date	By	Description

Designed
Drawn JH
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FILE No.



ZONE 7 WATER AGENCY
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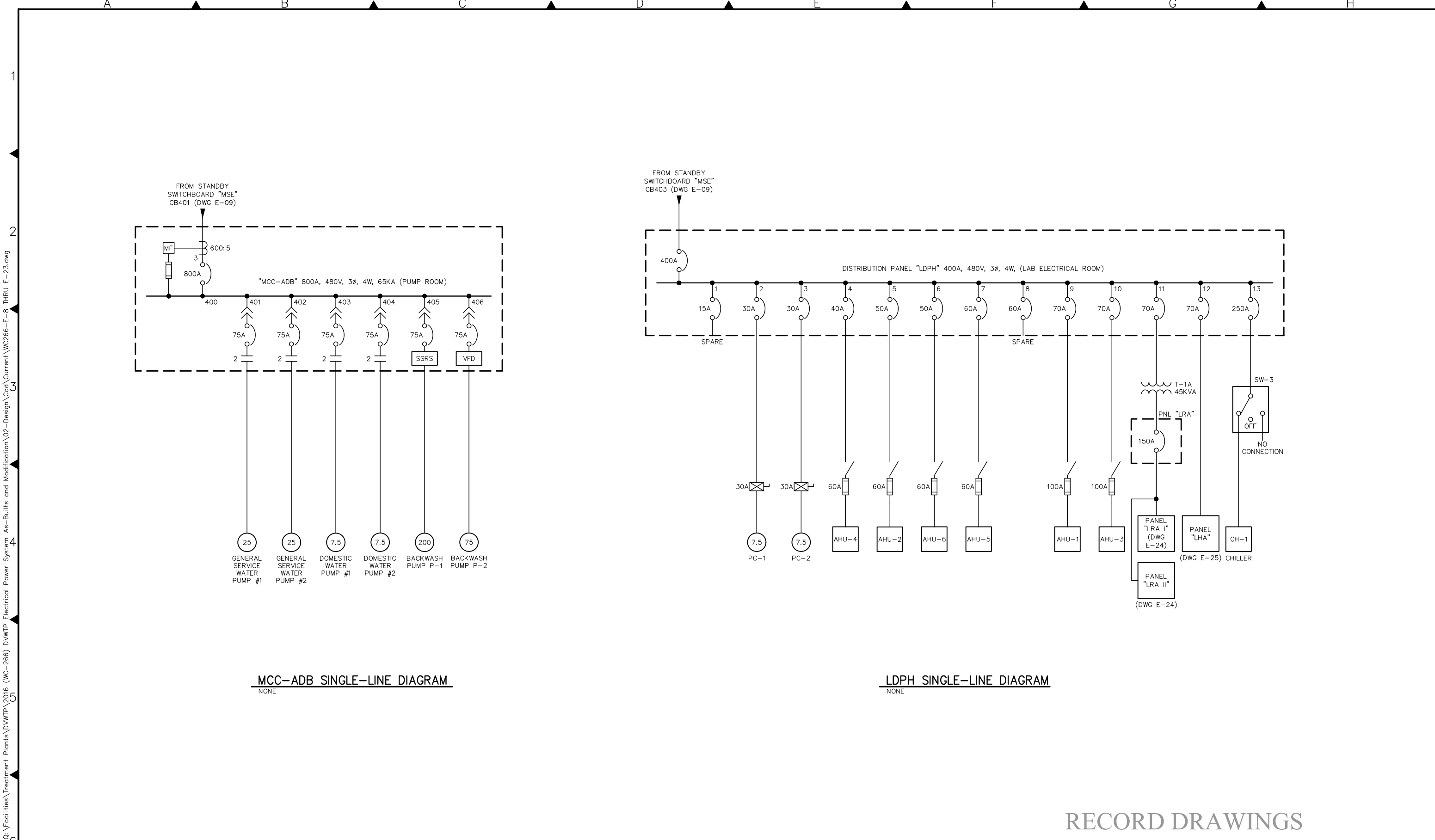
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SCALE ACCORDINGLY

DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS

ELECTRICAL

SINGLE LINE DIAGRAM - 2

Scale NONE
Drawing No. E-10
Sheet No. 12 of 30
PROJECT No. WC-266





MCC-ADB SINGLE-LINE DIAGRAM
NONE

LDPH SINGLE-LINE DIAGRAM
NONE

RECORD DRAWINGS

JHARRIS

					Designed	 <div>ZONE 7 WATER AGENCY 100 North Canyons Parkway Livermore, California, 94551</div>	<div>BAR IS ONE INCH AT FULL SCALE</div>  <div>IF NOT ONE INCH SCALE ACCORDINGLY</div>	DEL VALLE WATER TREATMENT PLANT ELECTRICAL POWER SYSTEM AS-BUILTS AND MODIFICATIONS	Scale NONE Drawing No. E-11 Sheet No. 13 of 30 PROJECT No. WC-266
				Drawn JH					
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2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION					ELECTRICAL	
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS					SINGLE LINE DIAGRAM - 3	
Rev.	Date	By	Description						

A

B

C

D

E

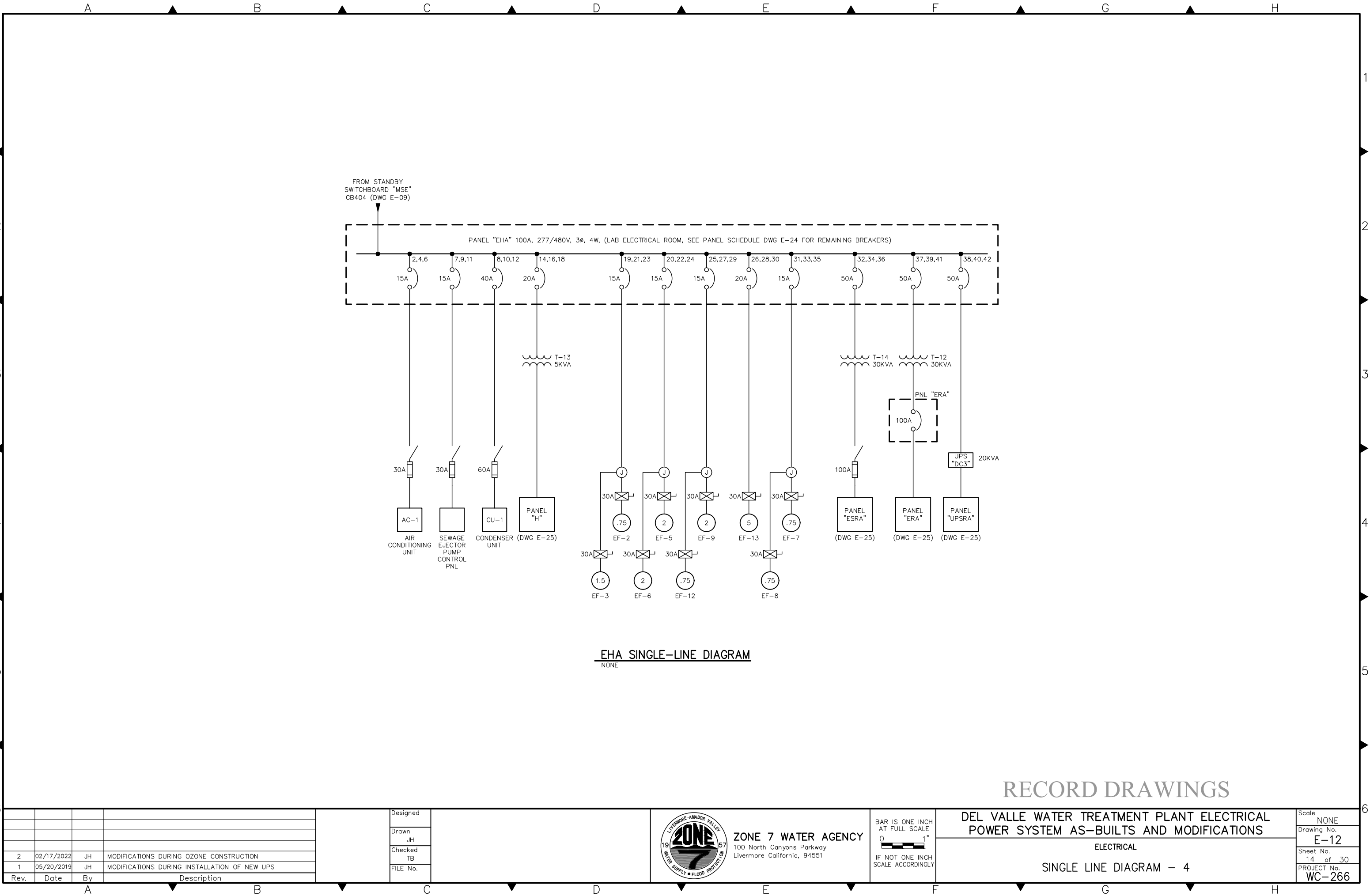
F

G


H

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JHARRIS



RECORD DRAWINGS

					Designed	 <div>ZONE 7 WATER AGENCY 100 North Canyons Parkway Livermore California, 94551</div>	<div>BAR IS ONE INCH AT FULL SCALE.</div> <div>0 1"</div> <div>IF NOT ONE INCH SCALE ACCORDINGLY</div>	DEL VALLE WATER TREATMENT PLANT ELECTRICAL POWER SYSTEM AS-BUILTS AND MODIFICATIONS		Scale NONE		
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				Checked TB	Sheet No. 14 of 30							
				FILE No.	PROJECT No. WC-266							
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION						ELECTRICAL		SINGLE LINE DIAGRAM – 4	
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS									
Rev.	Date	By	Description									

A

B

C

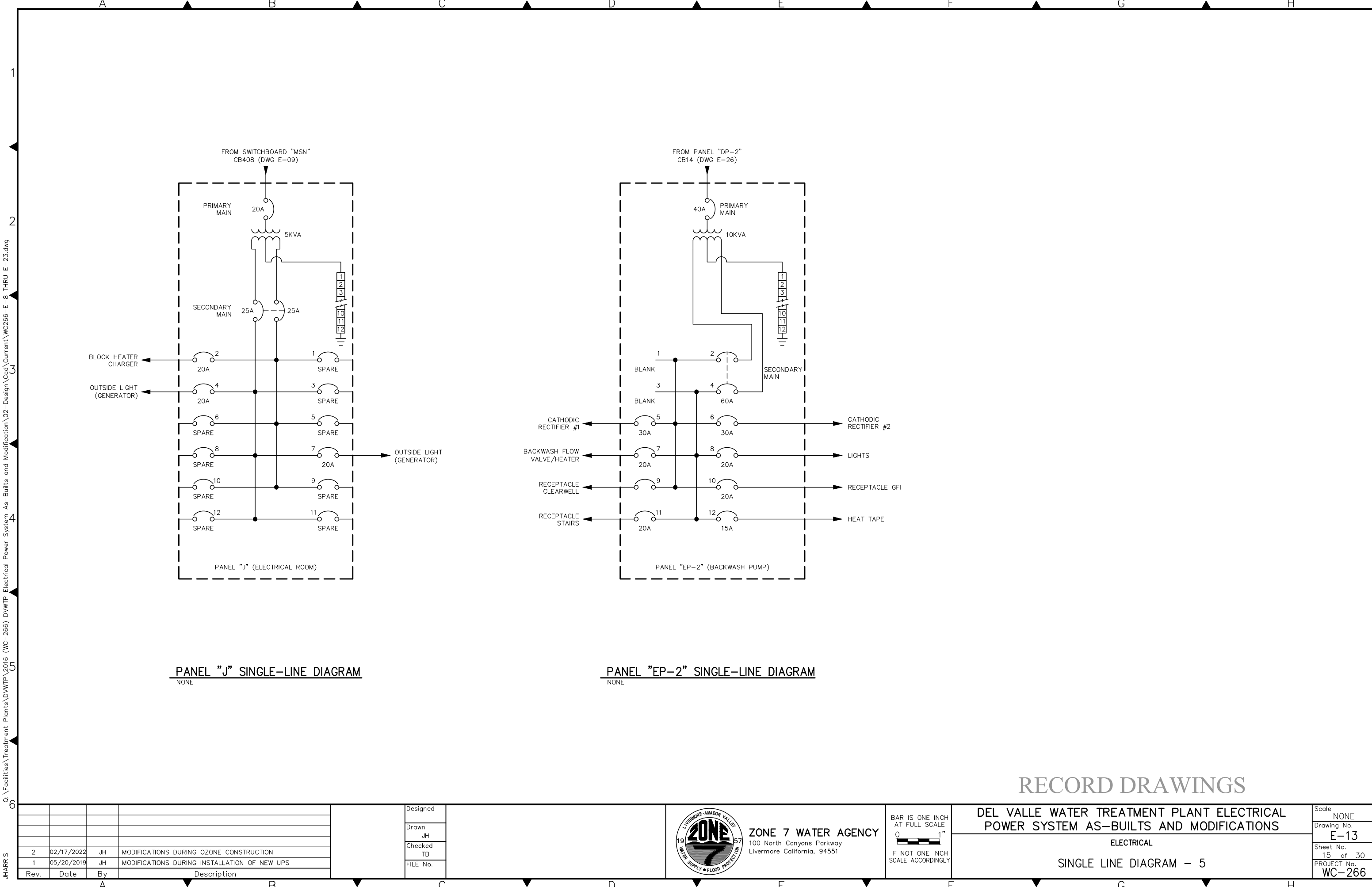
D

E

F

G

H



PANEL "J" SINGLE-LINE DIAGRAM

NONE

PANEL "EP-2" SINGLE-LINE DIAGRAM

NONE

RECORD DRAWINGS

2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS
Rev.	Date	By	Description

Designed
Drawn JH
Checked TB
FILE No.



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

BAR IS ONE INCH
AT FULL SCALE
0 1"
IF NOT ONE INCH
SCALE ACCORDINGLY

DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS

ELECTRICAL

SINGLE LINE DIAGRAM - 5

Scale NONE
Drawing No. E-13
Sheet No. 15 of 30
PROJECT No. WC-266

Q:\Facilities\Treatment Plants\DVWTP\2016 (WC-266) DVWTP Electrical Power System As-Built and Modification\02-Design\Cad\Current\WC266-E-8 THRU E-23.dwg

JHARRIS

Rev.	Date	By	Description
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS

Designed
Drawn JH
Checked TB
FILE No.

LIVERMORE-AMADOR VALLEY

1957

WATER SUPPLY • FLOOD PROTECTION

ZONE 7 WATER AGENCY

100 North Canyons Parkway

Livermore California, 94551

BAR IS ONE INCH
AT FULL SCALE

0 1"

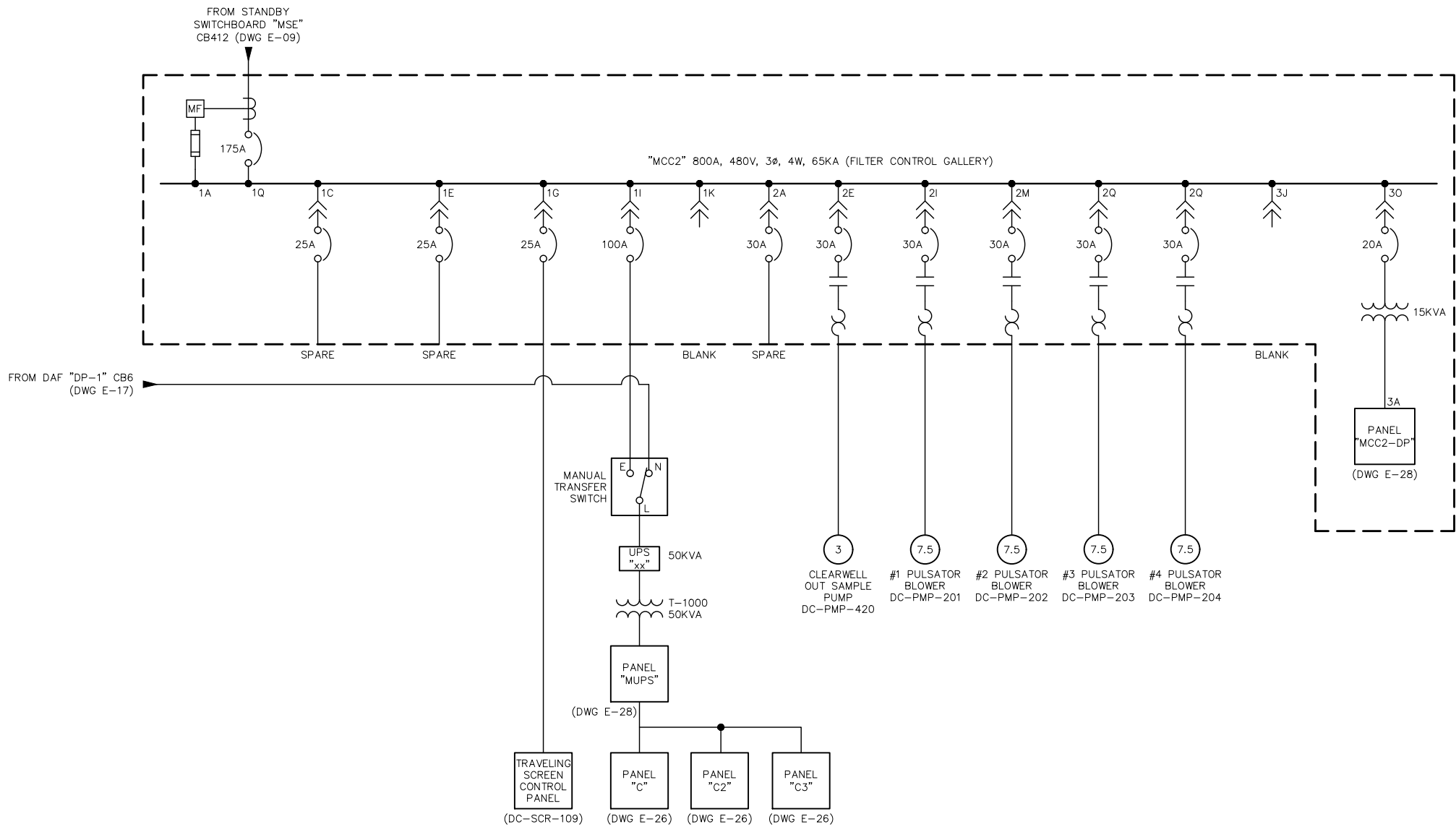
IF NOT ONE INCH
SCALE ACCORDINGLY

DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS

ELECTRICAL

SINGLE LINE DIAGRAM – 6

Scale NONE
Drawing No. E-14
Sheet No. 16 of 30
PROJECT No. WC-266



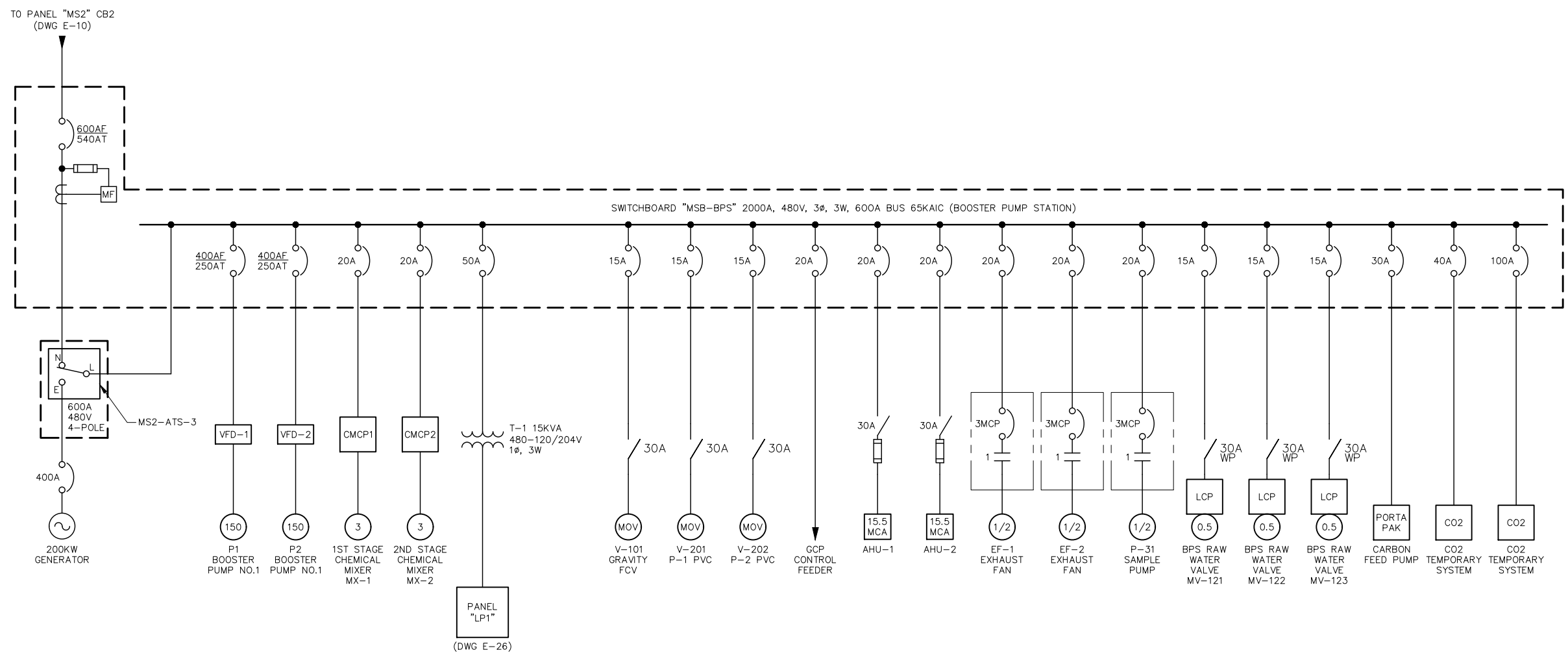
MCC2 SINGLE-LINE DIAGRAM

NONE

RECORD DRAWINGS

Q:\Facilities\Treatment Plants\DVWTP\2016 (WC-266) DVWTP Electrical Power System As-Built and Modification\02-Design\Cad\Current\WC266-E-8 THRU E-23.dwg

JHARRIS




MSB-BPS SINGLE-LINE DIAGRAM
NONE

RECORD DRAWINGS

Rev.	Date	By	Description
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS

Designed	
Drawn	JH
Checked	TB
FILE No.	



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

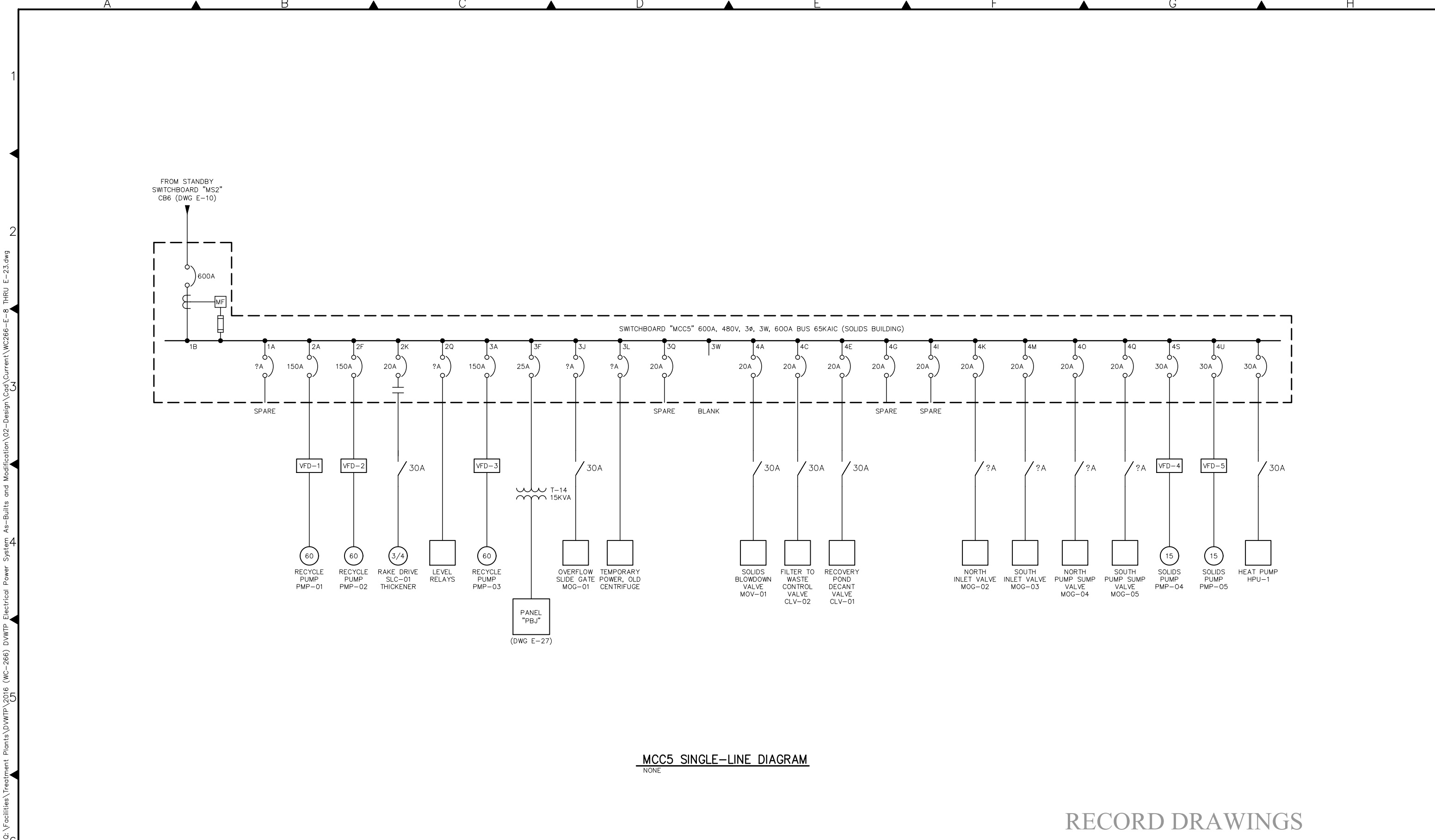
BAR IS ONE INCH
AT FULL SCALE
0 1"
IF NOT ONE INCH
SCALE ACCORDINGLY

**DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS**

ELECTRICAL

SINGLE LINE DIAGRAM - 7

Scale	NONE
Drawing No.	E-15
Sheet No.	17 of 30
PROJECT No.	WC-266



MCC5 SINGLE-LINE DIAGRAM

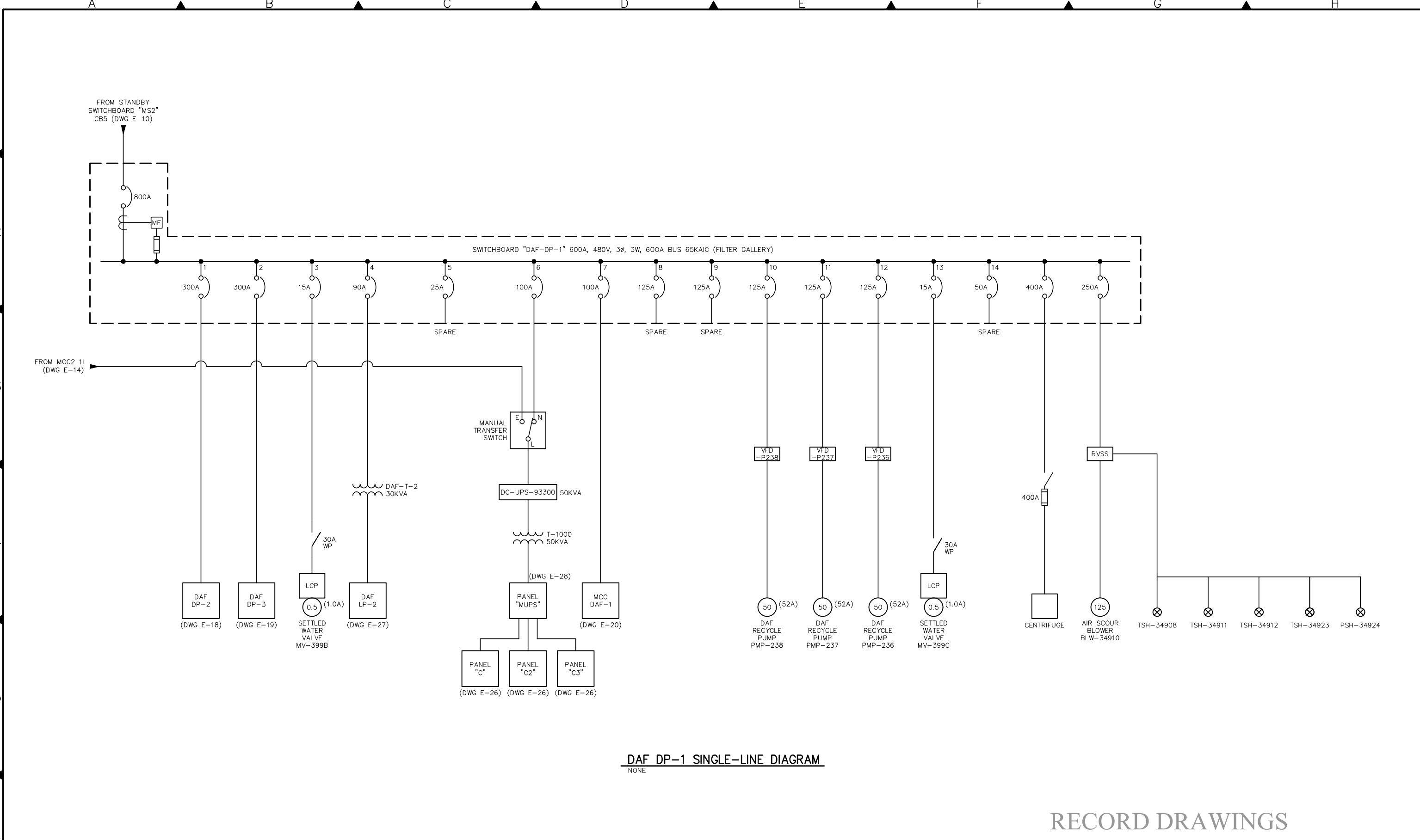
NONE

RECORD DRAWINGS

					Designed	 <div>ZONE 7 WATER AGENCY 100 North Canyons Parkway Livermore California, 94551</div>	<div>BAR IS ONE INCH AT FULL SCALE</div> <div>0 1"</div> <div>IF NOT ONE INCH SCALE ACCORDINGLY</div>	DEL VALLE WATER TREATMENT PLANT ELECTRICAL POWER SYSTEM AS-BUILTS AND MODIFICATIONS		Scale NONE
				Drawn JH	Drawing No. E-16					
				Checked TB	Sheet No. 18 of 30					
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION		FILE No.			SINGLE LINE DIAGRAM – 8		PROJECT No. WC-266
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS							
Rev.	Date	By	Description							

Q:\Facilities\Treatment Plants\DWTP\2016 (WC-266) DWTP Electrical Power System As-Built and Modification\02-Design\Cad\Current\WC266-E-8 THRU E-23.dwg

JHARRIS




DAF DP-1 SINGLE-LINE DIAGRAM

NONE

RECORD DRAWINGS

Rev.	Date	By	Description
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS

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Checked	TB
FILE No.	



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

BAR IS ONE INCH
AT FULL SCALE

0 1"

IF NOT ONE INCH
SCALE ACCORDINGLY

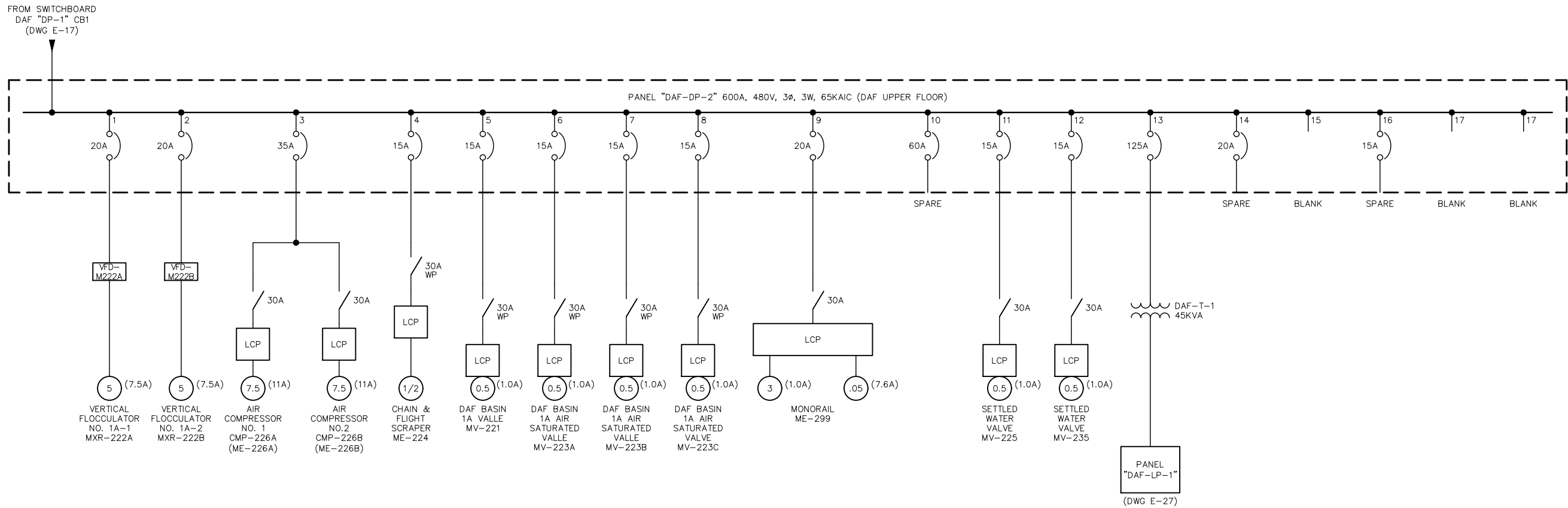
**DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS**

ELECTRICAL

SINGLE LINE DIAGRAM - 9

Scale	NONE
Drawing No.	E-17
Sheet No.	19 of 30
PROJECT No.	WC-266

Q:\Facilities\Treatment Plants\DVWTP\2016 (WC-266) DVWTP Electrical Power System As-Built and Modification\02-Design\Cad\Current\WC266-E-8 THRU E-23.dwg



DAF-DP-2 SINGLE-LINE DIAGRAM
NONE

RECORD DRAWINGS

Rev.	Date	By	Description
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS

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Drawn JH
Checked TB
FILE No.



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

BAR IS ONE INCH
AT FULL SCALE
0 1"
IF NOT ONE INCH
SCALE ACCORDINGLY

DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS

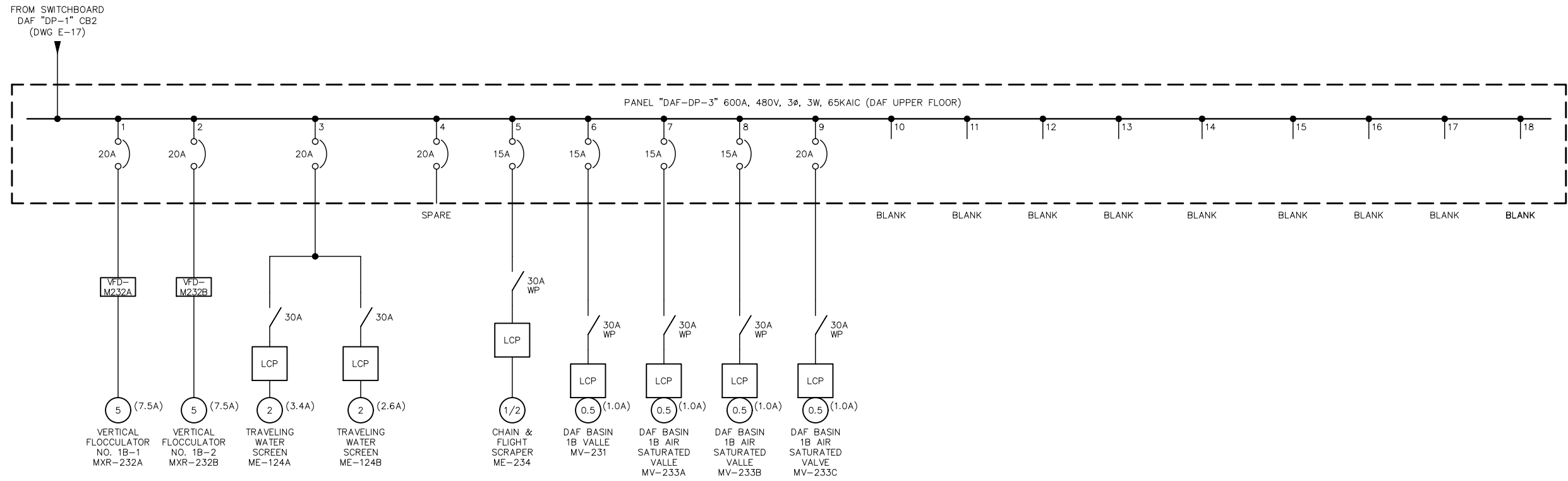
ELECTRICAL

SINGLE LINE DIAGRAM - 10

Scale NONE
Drawing No. E-18
Sheet No. 20 of 30
PROJECT No. WC-266

Q:\Facilities\Treatment Plants\DVWTP\2016 (WC-266) DVWTP Electrical Power System As-Built and Modification\02-Design\Cad\Current\WC266-E-8 THRU E-23.dwg

JHARRIS



DAF-DP-3 SINGLE-LINE DIAGRAM
NONE

RECORD DRAWINGS

Rev.	Date	By	Description
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS

Designed
Drawn JH
Checked TB
FILE No.



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

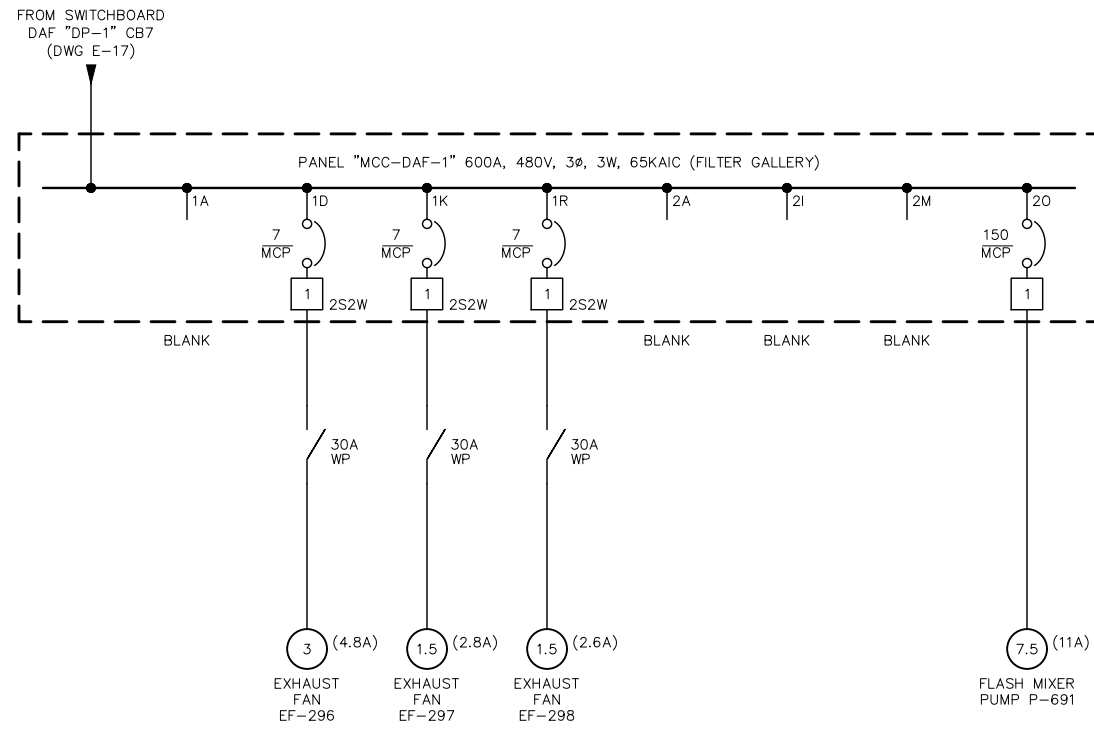
BAR IS ONE INCH
AT FULL SCALE
0 1"
IF NOT ONE INCH
SCALE ACCORDINGLY

DEL VALLE WATER TREATMENT PLANT ELECTRICAL POWER SYSTEM AS-BUILTS AND MODIFICATIONS
ELECTRICAL
SINGLE LINE DIAGRAM - 11

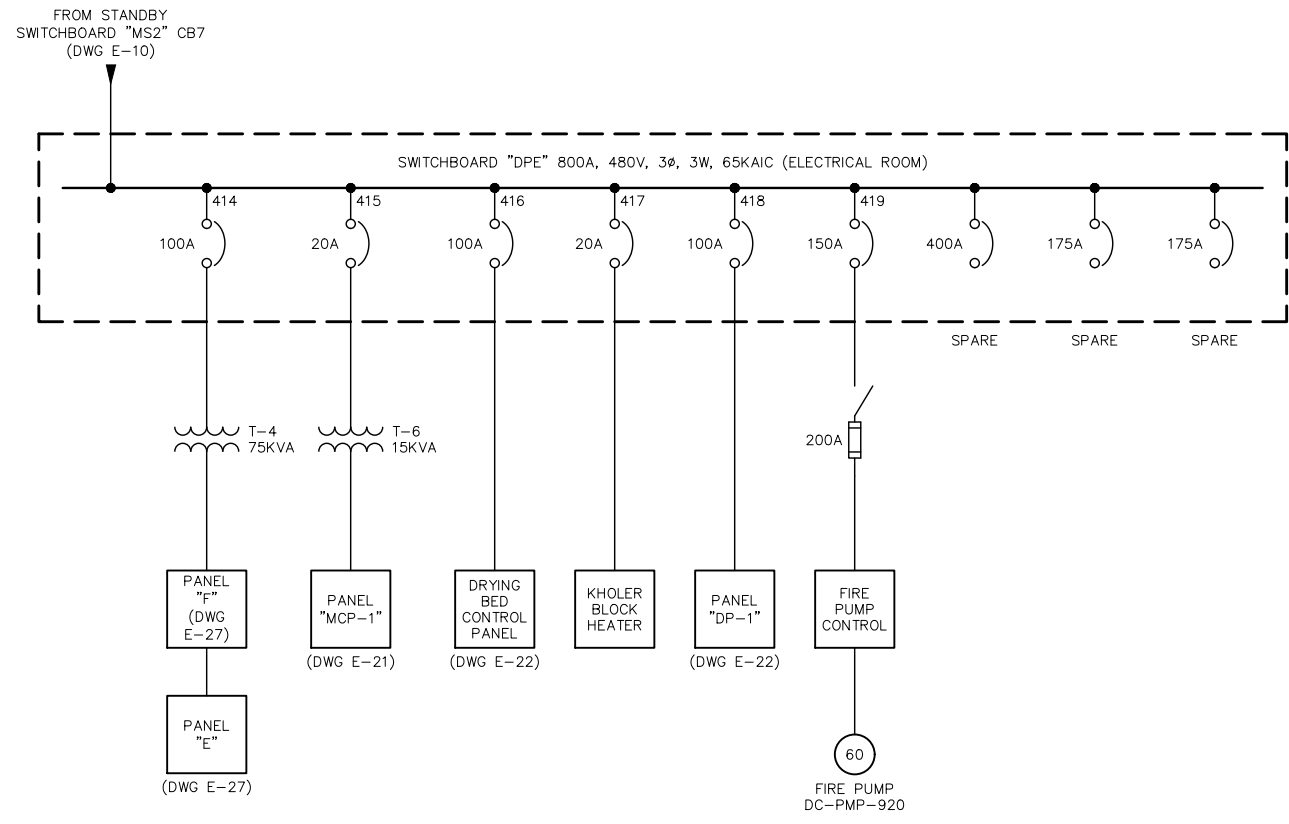
Scale NONE
Drawing No. E-19
Sheet No. 21 of 30
PROJECT No. WC-266

Q:\Facilities\Treatment Plants\DVWTP\2016 (WC-266) DVWTP Electrical Power System As-Built and Modification\02-Design\Cad\Current\WC266-E-8 THRU E-23.dwg

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MCC-DAF-1 SINGLE-LINE DIAGRAM
NONE




DPE SINGLE-LINE DIAGRAM
NONE

RECORD DRAWINGS

2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS
Rev.	Date	By	Description

Designed
Drawn JH
Checked TB
FILE No.



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

BAR IS ONE INCH
AT FULL SCALE
0 1"
IF NOT ONE INCH
SCALE ACCORDINGLY

**DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS**

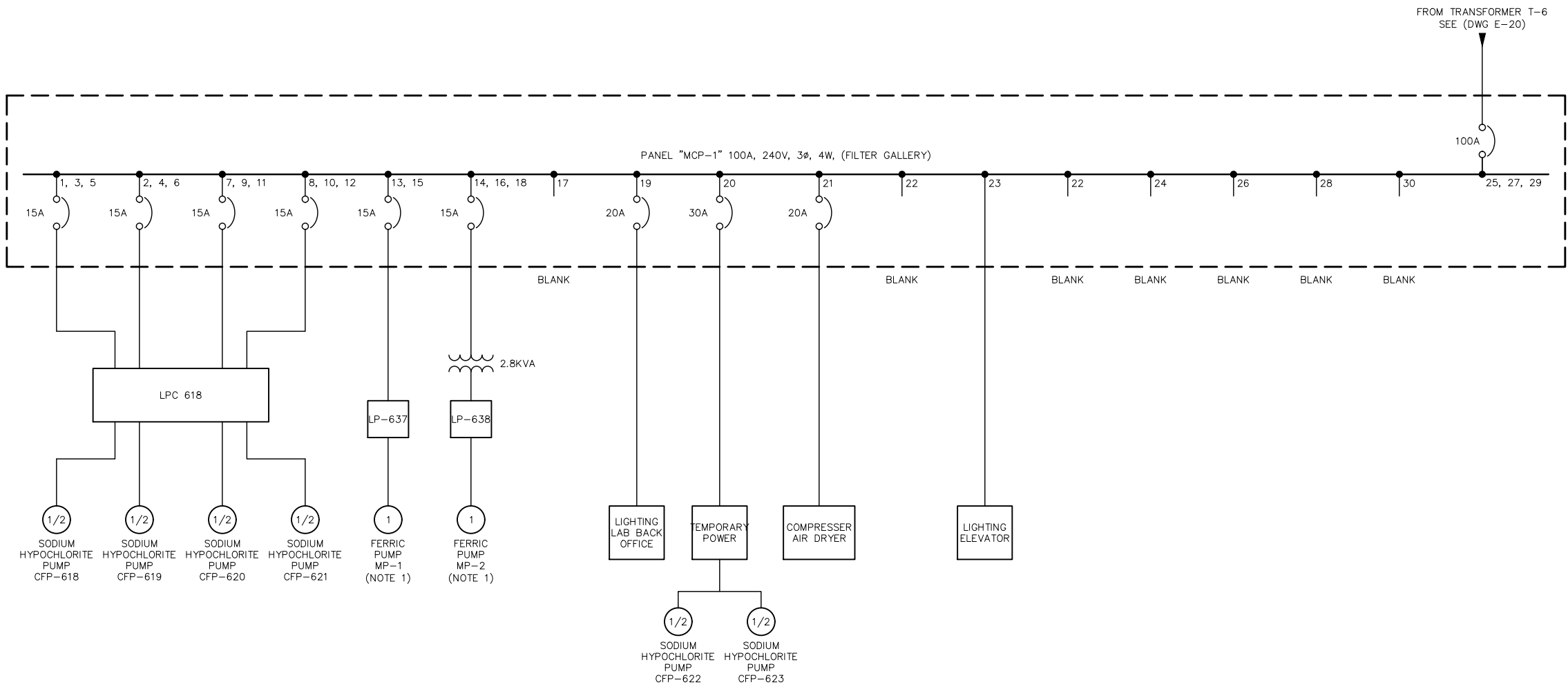
ELECTRICAL

SINGLE LINE DIAGRAM - 12

Scale	NONE
Drawing No.	E-20
Sheet No.	22 of 30
PROJECT No.	WC-266

Q:\Facilities\Treatment Plants\DVWTP\2016 (WC-266) DVWTP Electrical Power System As-Built and Modification\02-Design\Cad\Current\WC266-E-8 THRU E-23.dwg

JHARRIS



NOTES:

1. THE PANELS AND PUMPS ARE STILL LABELED AS ALUM. THE ALUM SYSTEM IS NO LONGER IN USE. THE PUMPS ARE NOW USED FOR FERRIC.

MCP-1 SINGLE-LINE DIAGRAM

NONE

RECORD DRAWINGS

Rev.	Date	By	Description
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS

Designed
Drawn JH
Checked TB
FILE No.



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

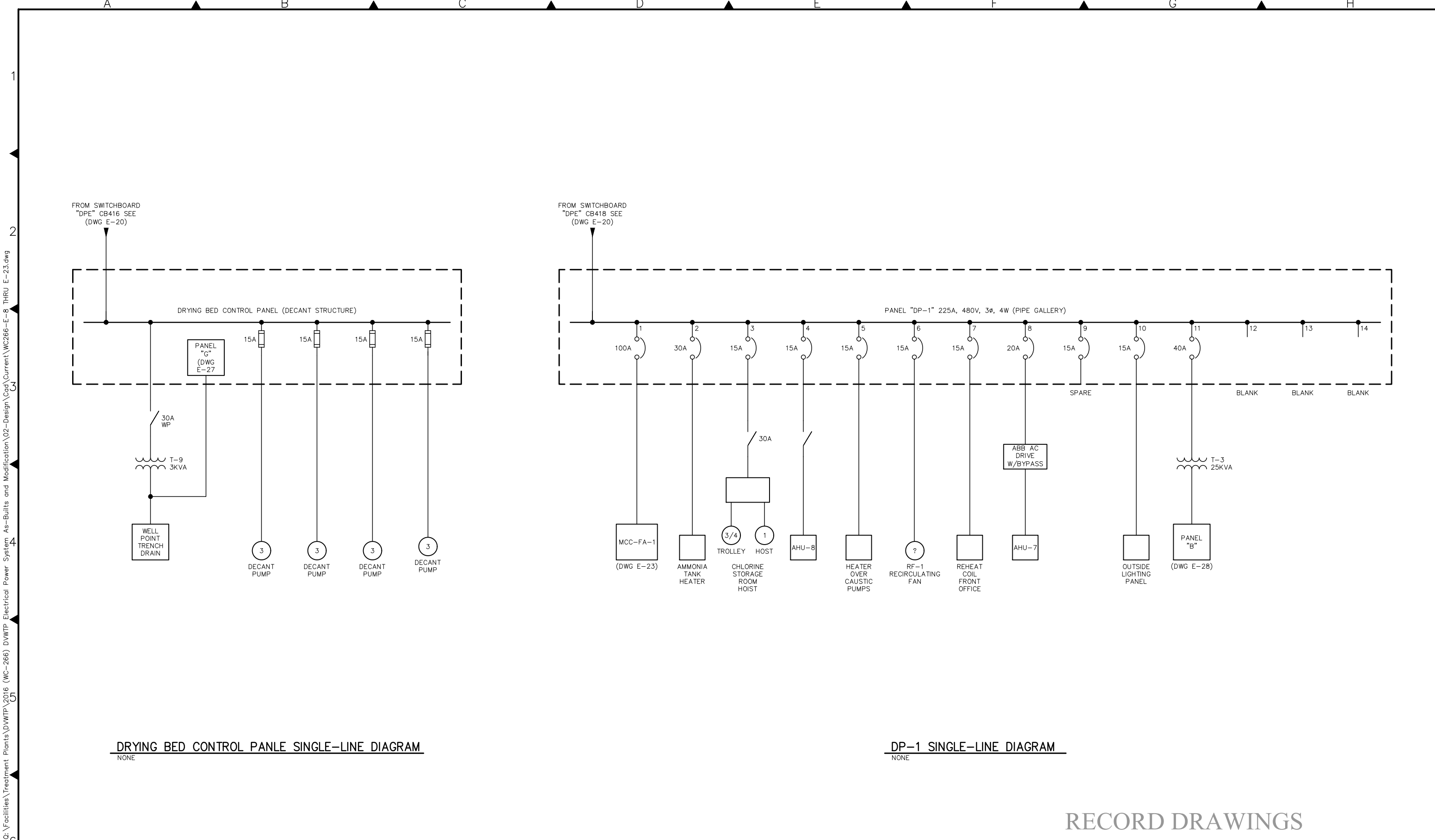
BAR IS ONE INCH
AT FULL SCALE
0 1"
IF NOT ONE INCH
SCALE ACCORDINGLY

**DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS**

ELECTRICAL

SINGLE LINE DIAGRAM - 13

Scale NONE
Drawing No. E-21
Sheet No. 23 of 30
PROJECT No. WC-266



DRYING BED CONTROL PANLE SINGLE-LINE DIAGRAM
NONE

DP-1 SINGLE-LINE DIAGRAM
NONE

RECORD DRAWINGS

JHARRIS

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JHARRIS

Rev.	Date	By	Description
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS

Designed
Drawn JH
Checked TB
FILE No.



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

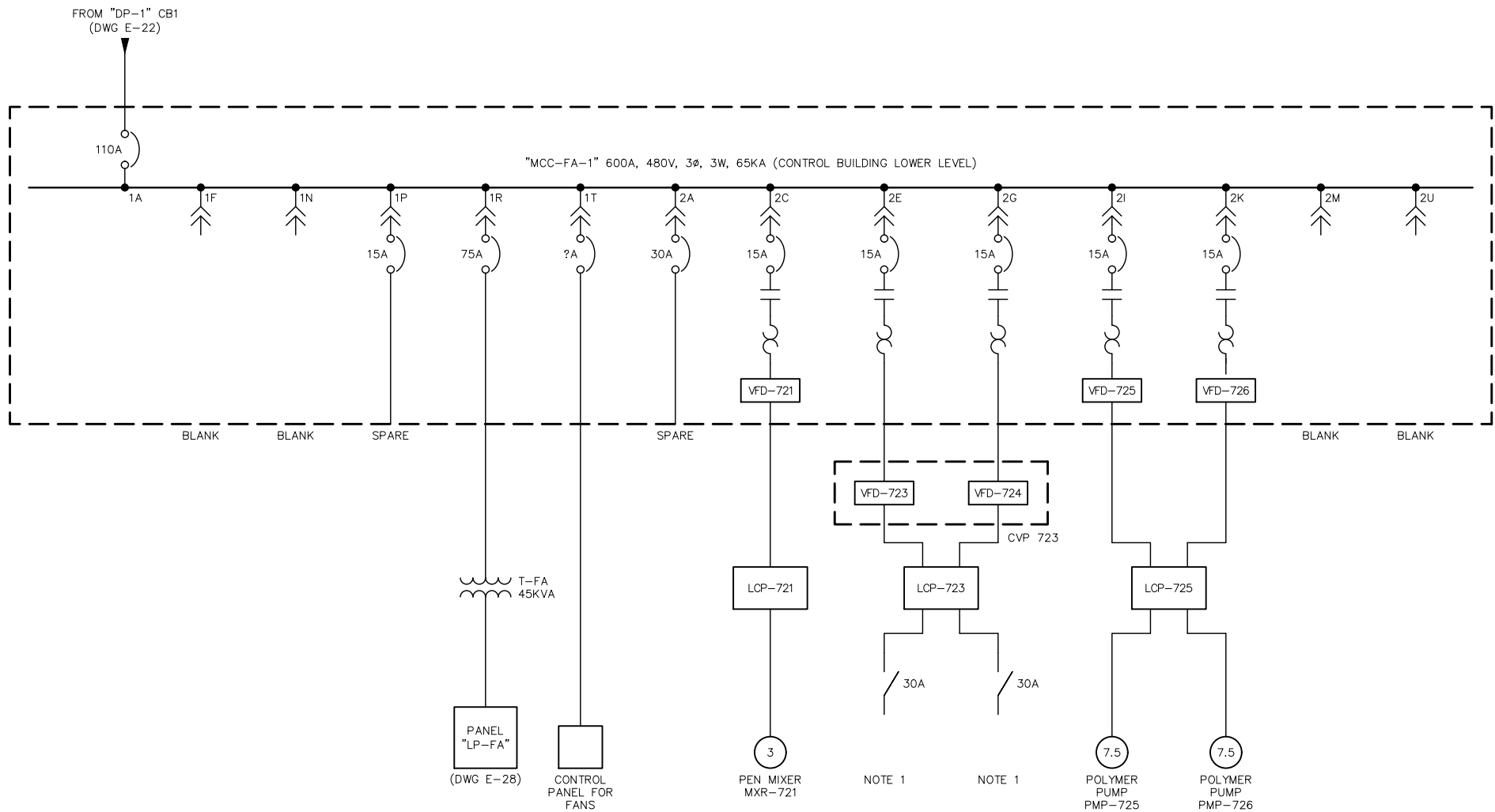
BAR IS ONE INCH
AT FULL SCALE
0 1"
IF NOT ONE INCH
SCALE ACCORDINGLY

**DEL VALLE WATER TREATMENT PLANT ELECTRICAL
POWER SYSTEM AS-BUILTS AND MODIFICATIONS**

ELECTRICAL

SINGLE LINE DIAGRAM - 15

Scale NONE
Drawing No. E-23
Sheet No. 25 of 30
PROJECT No. WC-266



NOTES:

- PEN PUMPS PMP-723 AND PMP-724 HAVE BEEN REMOVED IN PREPARATION FOR THE INSTALLATION OF A NEW POLYMER SYSTEM LATER THIS YEAR.

MCC-FA-1 SINGLE-LINE DIAGRAM

NONE

RECORD DRAWINGS

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JHARRIS

PANEL "SHA"											
(SHOP ELECTRICAL ROOM, FED FROM SWITCHBOARD "MSE")											
VOLTAGE: 277/480				MOUNTING: SURFACE				KVA:			
BUS: 225 A				TYPE:				CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD			
SHOP EMERGENCY LIGHTING		20	1	●	2	20		SPARE			
SPARE		20	3	●	4	20		SPARE			
SPARE		20	5	●	6	20		SPARE			
TEST STATION		30	7	●	8			TRANSFORMER "T-17" (TEST STATION)			
			9	●	10	30					
			11	●	12						
			13	●	14						
TRANSFORMER "T-15" (PANEL "TP" PORTABLE OFFICE)		60	15	●	16	15		SHOP ROLL-UP DOOR			
			17	●	18						
			19	●	20	--					
TRANSFORMER "T-3" (PANEL "SRA")		70	21	●	22	--		BLANK			
			23	●	24	--					
			25	●	26						
EAC-1 W/ 30A DISCONNECT		15	27	●	28	15		EAC-2 W/ 30A DISCONNECT			
			29	●	30						
			31	●	32						
BLANK		--	33	●	34	50		FIRE JOCKEY PUMP, DC-PMP-921 (2HP) W/ 30A DISCONNECT			
SHOP WELDING DISC.		50	35	●	36						
			37	●	38	--					
TRANSFORMER "T-16" (CONEX POWER PNL "Y", WELDER AND PLASMA CUTTER)		100	39	●	40	--		BLANK			
			41	●	42	--		BLANK			

PANEL "TP"											
(MAINTENANCE TRAILER, FED FROM PNL "SHA")											
VOLTAGE: --				MOUNTING: SURFACE				KVA:			
BUS: --				TYPE:				CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD			
BLANK		--	1	●	2	--		BLANK			
BLANK		--	3	●	4	--		BLANK			
BLANK		--	5	●	6	--		BLANK			
BLANK		--	7	●	8	--		BLANK			
BLANK		--	9	●	10	50		SPARE			
SPARE		20	11	●	12	50		SPARE			
PANEL "P1"		100	13	●	14	100		PANEL "P"			
			100	15	●	16	100				
			100	17	●	18	100				

PANEL "P"											
(MAINTENANCE TRAILER, FED FROM PNL "TP")											
VOLTAGE: --				MOUNTING: FLUSH				KVA:			
BUS: --				TYPE:				CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD			
AC			50	1	●	2	20	RECEPTACLE			
			50	3	●	4	20	RECEPTACLE			
			50	5	●	6	20	RECEPTACLE			
LIGHTS		20	7	●	8	20		RECEPTACLE			
BLANK		--	9	●	10	15		LIGHTS			
BLANK		--	11	●	12	--		BLANK			
BLANK		--	13	●	14	--		BLANK			
BLANK		--	15	●	16	--		BLANK			
BLANK		--	17	●	18	--		BLANK			
BLANK		--	19	●	20	--		BLANK			

PANEL "SRA"											
(SHOP ELECTRICAL ROOM, FED FROM PNL "SHA")											
VOLTAGE: 120/280				MOUNTING: SURFACE				KVA:			
BUS: 225 A				TYPE:				MAIN: 150A/3P			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD			
UH-1, UH-2		20	1	●	2	20		ICE MAKER			
ROOF RECEPTACLES		20	3	●	4	20		SHOP RECEPTACLE (ELECTRONICS)			
?? (IN THE OFF POSITION)		20	5	●	6	20		?? CONTROL PANEL (OFF POSITION)			
?? (IN THE OFF POSITION)		20	7	●	8	20		SPRINKLER BELL			
IRRIGATION CONTROL		20	9	●	10	20		EWB ?? (IN THE OFF POSITION)			
SHOP RECEPTACLE (ELECTRONICS)		20	11	●	12	20		SHOP RECEPTACLE			
SHOP RECEPTACLE		20	13	●	14	20		SHOP RECEPTACLE (ELECTRONICS)			
REFRIGERATOR RECEPTACLE		20	15	●	16	20		SHOP RECEPTACLE			
RESTROOM (EXHAUST FAN/HEATER)		20	17	●	18	20		SPARE			
CEILING FANS (4)		20	19	●	20	20		SHOP RECEPTACLE (BAY)			
SPARE		20	21	●	22	30		SHOP AC (ELECTRONICS)			
SPARE		20	23	●	24	30		HEAT PUMP (HP-2)			
SHOP RECEPTACLE (SANDER)		15	25	●	26	30					
			27	●	28	30					
SHOP RECEPTACLE		20	29	●	30	30		HEAT PUMP (HP-1)			
SHOP RECEPTACLE (LATHE)		20	31	●	32	30					
			33	●	34	20		SHOP AC (COMPUTER ROOM)			
?? (IN THE OFF POSITION)		20	35	●	36	20					
BLANK		--	37	●	38	--		BLANK			
BLANK		--	39	●	40	--		BLANK			
BLANK		--	41	●	42	--		BLANK			

PANEL "P1"											
(MAINTENANCE TRAILER, FED FROM PNL "TP")											
VOLTAGE: --				MOUNTING: FLUSH				KVA:			
BUS: --				TYPE:				CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD			
AC			50	1	●	2	20	RECEPTACLE			
			50	3	●	4	20	RECEPTACLE			
			50	5	●	6	20	RECEPTACLE			
RECEPTACLE		20	7	●	8	20		SPARE			
OUTSIDE LIGHTS		30	9	●	10	30		RECEPTACLE			
RECEPTACLE		20	11	●	12	15		LIGHTS			
BLANK		--	13	●	14	--		BLANK			
BLANK		--	15	●	16	--		BLANK			
BLANK		--	17	●	18	--		BLANK			
BLANK		--	19	●	20	--		BLANK			

PANEL "Y"											
('U' SHAPE AREA OF CONEX, FED FROM PNL "SHA")											
VOLTAGE: --				MOUNTING: SURFACE				KVA:			
BUS: --				TYPE:				CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD			
CONEX LIGHTING/RECEPTACLES		20	1	●	2	40		RECEPTACLE - CHARGING STATION			
CONEX LIGHTING/RECEPTACLES		20	3	●	4	40					
SPARE		20	5	●	6	30					
SPARE		20	7	●	8	30					

PANEL "LAR I"											
(LAB HALLWAY, FED FROM DISTRIBUTION PNL "LDPH")											
VOLTAGE: 120/208				MOUNTING: FLUSH				KVA:			
BUS:				TYPE:				CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD			
LIGHTING - SERVICES PAVILION		20	1	●	2	20		RECEPTACLE - CHEMIST'S LAB			
DI WATER PUMP POWER, "RO-1", "RM-1" AND LEAK DETECTOR PNL		20	3	●	4	20		RECEPTACLE - CHEMIST'S LAB			
RECEPTACLE - LAB STORAGE		20	5	●	6	20		RECEPTACLE - PREP LAB			
RECEPTACLE - LAB STORAGE		20	7	●	8	20		RECEPTACLE - PREP LAB			
RECEPTACLE - LAB STORAGE		20	9	●	10	30		RECEPTACLE - PREP LAB			
RECEPTACLE - ORGANIC LAB		20	11	●	12	20		RECEPTACLE - PREP LAB			
RECEPTACLE - ORGANIC LAB		20	13	●	14	20		RECEPTACLE - BACTERIA LAB			
RECEPTACLE - BACTERIA LAB		20	15	●	16	20		RECEPTACLE - INORGANIC LAB			
RECEPTACLE - BACTERIA LAB		20	17	●	18	20		RECEPTACLE - INORGANIC LAB			
RECEPTACLE - BACTERIA LAB		20	19	●	20	20		RECEPTACLE - TOILETS & ELEC			
RECEPTACLE - BACTERIA LAB		20	21	●	22	20		RECEPTACLE - TELEPHONE BOARD			
RECEPTACLE - BACTERIA LAB		20	23	●	24	20		EF-1			
RECEPTACLE - CONV.		20	25	●	26	20		RECEPTACLE - INORGANIC LAB			
RECEPTACLE - CONV.		20	27	●	28	20					
RECEPTACLE - ROOF		20	29	●	30						

PANEL "LAR II"											
(LAB HALLWAY, FED FROM DISTRIBUTION PNL "LDPH")											
VOLTAGE: 120/208				MOUNTING: FLUSH				KVA:			
BUS:				TYPE:				CURRENT:			
LOAD		KVA	CB	NO		NO	CB	KVA	LOAD		
VACUUM PUMPS			20	31	●	32	20		RECEPTACLE – GAS "A"		
VACUUM PUMPS			20	33	●	34	20		RECEPTACLE – PREP LAB		
VACUUM PUMPS			20	35	●	36	20		RECEPTACLE – PREP LAB		
SPARE ??			20	37	●	38	20		RECEPTACLE – PREP LAB		
TIME SWITCH & RELAY			20	39	●	40	15		HVAC LAB		
RESISTIVELY MONITOR "RM-2"			20	41	●	42					
HVAC – ROOF (LAB)			20	43	●	44	20		HOT WATER		
				45	●	46					
DISHWASHER ? (IN THE OFF POSITION)				47	●	48	20		SPARE ?		
		20		49	●	50	20		FURNACE – PREF		
				51	●	52					
RECEPTACLE – PREP LAB			20	53	●	54	20		RECEPTACLE – PREP LAB		
				55	●	56					
RECEPTACLE – PREP LAB			20	57	●	58	20		RECEPTACLE – PREP LAB		
				59	●	60					
BLANK		--	61	●	62	--		BLANK			
BLANK		--	63	●	64	--		BLANK			
BLANK		--	65	●	66	--		BLANK			
BLANK		--	67	●	68	--		BLANK			
BLANK		--	69	●	70	--		BLANK			
BLANK		--	71	●	72	--		BLANK			

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PANEL "LHA" (LAB HALLWAY, FED FROM DISTRIBUTION PNL "LDPH")									
VOLTAGE: 277/480			MOUNTING: FLUSH			KVA:			
BUS: ---			TYPE:			CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD	
LIGHTING - LAB		20	1	●	2	20		EXTERIOR LIGHTS (TIMER IN UPS ELEC RM.)	
LIGHTING - LAB		20	3	●	4	20		EXTERIOR LIGHTS (TIMER IN UPS ELEC RM.)	
LIGHTING - LAB		20	5	●	6	20		SPARE ?	
SPARE		20	7	●	8	20		SPARE ?	
SPARE		20	9	●	10	20		SPARE	
SPARE		20	11	●	12	20		SPARE	
BLANK		---	13	●	14	---		BLANK	
BLANK		---	15	●	16	---		BLANK	
BLANK		---	17	●	18	---		BLANK	
BLANK		---	19	●	20				
BLANK		---	21	●	22	15		SPARE	
BLANK		---	23	●	24				
BLANK		---	25	●	26	---		BLANK	
BLANK		---	27	●	28	---		BLANK	
BLANK		---	29	●	30	---		BLANK	

PANEL "ESRA" (SHOP ELECTRICAL ROOM, FED FROM PNL "EHA")									
VOLTAGE: 10/280			MOUNTING: SURFACE			KVA:			
BUS: ---			TYPE:			CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD	
RADIO/FIBER PATCH		20	1	●	2				
RECEPTACLE - SHOP ELEC. RM.		20	3	●	4	60		SUB-PANEL ESRA (BOILER ROOM)	
RECEPTACLE/LIGHTS - COMP. RM		20	5	●	6				
RECEPTACLE (PETE'S OFFICE)		20	7A	●	8	20		RECEPTACLE - SHOP (SINK AREA)	
		20	7B	●					
HEATING CONTROL - SHOP		20	9	●	10	20		WATER HEATER	
RECEPTACLE - SHOP		20	11	●	12	20		RECEPTACLE - SHOP (SINK AREA)	

SUB-PANEL "ESRA-SUB" (BOILER ROOM, FED FROM PNL "ESRA")									
VOLTAGE: 120/208			MOUNTING: SURFACE			KVA:			
BUS:			TYPE:			CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD	
HWP #1		40	1	●	2			HWP #2	
			3	●	4	40			
			5	●	6				
BOILER #1		20	7	●	8	20		BOILER #2	
LIGHTS - INTERIOR		20	9	●	10	20		EF-14	
LIGHTS - EXTERIOR		20	11	●	12	20		RECEPTACLE	
???		20	13	●	14	20		TCP-11 (BOILER CONTROL PNL)	
FIRE ALARM BELL		20	15	●	16	---		BLANK	
REHEAT WATER CIRCULATOR PUMP		15	17	●	18	---		BLANK	
			19	●	20	---		BLANK	
BLANK		---	21	●	22	---		BLANK	
BLANK		---	23	●	24	---		BLANK	
BLANK		---	25	●	26	---		BLANK	
BLANK		---	27	●	28	---		BLANK	
BLANK		---	29	●	30	---		BLANK	

PANEL "EHA" (LAB ELECTRICAL ROOM, FED FROM SWITCHBOARD "MSE")									
VOLTAGE: 277/480			MOUNTING: SURFACE			KVA:			
BUS:			TYPE:			CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD	
EMERGENCY LIGHTS - LAB		20	1	●	2				
LIGHTS - SHOP		20	3	●	4	15		AC-1	
LIGHTS - SHOP		20	5	●	6				
			7	●	8				
SEWAGE EJECTOR PUMP (SE-1) /30A DISCONNECT		15	9	●	10	40		CU-1	
			11	●	12				
LIGHTS - SHOP		20	13	●	14				
BLANK		---	15	●	16	20		TRANSFORMER T13 (PNL "H"), MAIN GATE	
BLANK		---	17	●	18				
			19	●	20				
EF-2, EF-3		15	21	●	22	15		EF-5, EF-6	
			23	●	24				
EF-9, EF-12		15	25	●	26				
			27	●	28	20		EF-13	
			29	●	30				
EF-7, EF-8		15	31	●	32				
			33	●	34	50		TRANSFORMER T14 (PNL "ESRA")	
			35	●	36				
			37	●	38				
TRANSFORMER T12 (PNL "ERA")		50	39	●	40	50		SPARE	
			41	●	42				

PANEL "ERA" (LAB HALLWAY, FED FROM PNL "EHA")									
VOLTAGE: 120/280			MOUNTING: FLUSH			KVA:			
BUS:			TYPE:			CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD	
FUME HOOD - PREP LAB		20	1	●	2	20		FUME HOOD - BACTI LAB	
FUME HOOD - PREP LAB		20	3	●	4	20		FUME HOOD - BACTI LAB	
REFRIGERATOR - LAB STORAGE		20	5	●	6	20		FUME HOOD - INORGANIC LAB	
REFRIGERATOR - LAB STORAGE		20	7	●	8	20		FUME HOOD - INORGANIC LAB	
RECEPTACLE - ORGANIC LAB		20	9	●	10	20		EF-10, EF-11	
RECEPTACLE - ORGANIC LAB		20	11	●	12	20		EF-4	
RECEPTACLE - ORGANIC LAB		20	13	●	14	20		SPARE ?	
RECEPTACLE - BACTI LAB		20	15	●	16	20		SPARE	
RECEPTACLE - BACTI LAB		20	17	●	18				
RECEPTACLE - BACTI LAB		20	19	●	20	50		SPARE	
RECEPTACLE - OFFICE		20	21	●	22				
RECEPTACLE - OFFICE		20	23	●	24	50		AUTOClave - BACTI LAB	
FUME HOOD - PREP LAB		20	25	●	26				
			27	●	28				
RECEPTACLE - INORGANIC LAB		15	29	●	30	20		RECEPTACLE - INORGANIC LAB (OFF, POSSIBLE SPARE)	
			31	●	32				
RECEPTACLE - INORGANIC LAB		15	33	●	34	20		RECEPTACLE - INORGANIC LAB	
			35	●	36	---		BLANK	
BLANK		---	37	●	38	20		DI PLUG	
BACTI LAB THERMAL BATH		30	39	●	40	---		BLANK	
BLANK		---	41	●	42	---		BLANK	

PANEL "H" (MAIN GATE, FED FROM PNL "EHA")									
VOLTAGE: ---			MOUNTING: IN PANEL			KVA:			
BUS: ---			TYPE:			CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD	
OUTLET		20	1	●	2	20		GUARD SHACK	
GUARD SHACK		20	3	●	4	20		GATE CONTROL	

PANEL "UPSRA" (LAB HALLWAY, FED FROM UPS "DC3")									
VOLTAGE: 120/208			MOUNTING: FLUSH			KVA:			
BUS: 100A			TYPE:			CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD	
---			20	1	2	20		---	
---			20	3	4	20		---	
---			20	5	6	20		---	
---			20	7	8	20		---	
---			20	9	10	20		---	
---			20	11	12	30		---	
---			20	13	14			---	
---			20	15	16	20		---	
---			20	17	18	20		---	
---			20	19	20	20		---	
---			20	21	22	20		---	
---			20	23	24	20		---	
---			20	25	26	20		---	
---			20	27	28	20		---	
---			20	29	30			---	

PANEL "A" (PIPE GALLERY, FED FROM SWITCHBOARD "MSE")									
VOLTAGE: 120/208			MOUNTING: SURFACE			KVA:			
BUS: 100A			TYPE:			CURRENT:			
LOAD	KVA	CB	NO		NO	CB	KVA	LOAD	
MAIN		100	1	●	2	---		BLANK	
			3	●	4	---		BLANK	
			5	●	6	---		BLANK	
CHLORINE STORE RM EXHAUST FAN		15	7	●	8	---		BLANK	
???		15	9	●	10	---		BLANK	
CONTROL MEN'S RM EXHAUST FAN		15	11	●	12	---		BLANK	
EMERGENCY LIGHT (DC-LHT-102)		15	13	●	14	---		BLANK	
PIPE GALLERY EXHAUST FAN EF-7		20	15	●	16	---		BLANK	
BLANK		---	17	●	18	---		BLANK	
???		15	19	●	20				
???		15	21	●	22	20		RECEPTACLE (TWISTED LOCK) - PEA PUMP	
???		15	23	●	24				
			25	●	26				
DEHUMIDIFIER #1		50	27	●	28	50		DEHUMIDIFIER #2	
			29	●	30				
???		20	31	●	32	20		POLY PUMPS (CFP-631, CFP-632)	
???		20	33	●	34				
BLANK		---	35	●	36	70		PANELS A1 AND A2	
BLANK		---	37	●	38	---		BLANK	
BLANK		---	39	●	40	---		BLANK	
BLANK		---	41	●	42	---		BLANK	
BLANK		---	43	●	44	---		BLANK	
BLANK		---	45	●	45	---		BLANK	
BLANK		---	47	●	46	---		BLANK	

RECORD DRAWINGS

					Designed	 <div>ZONE 7 WATER AGENCY 100 North Canyons Parkway Livermore California, 94551</div> <div>BAR IS ONE INCH AT FULL SCALE  IF NOT ONE INCH SCALE ACCORDINGLY</div>	DEL VALLE WATER TREATMENT PLANT ELECTRICAL POWER SYSTEM AS-BUILTS AND MODIFICATIONS		Scale NONE
					Drawn JH		Drawing No. E-25		
					Checked TB		ELECTRICAL PANEL SCHEDULES - 2	Sheet No. 27 of 30	
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION		FILE No.			PROJECT No. WC-266	
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS						
Rev.	Date	By	Description						

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SUB PANEL "A1" (TECH SHOP CONEX, FED FROM PNL "A")											
VOLTAGE: ---			MOUNTING: SURFACE				KVA:				
BUS: ---			TYPE:				CURRENT:				
LOAD			KVA	CB	NO		NO	CB	KVA	LOAD	
LIGHTS - TECH SHOP				20	1	●	2	20		LIGHTS - ELECTRICAL STORAGE	
LIGHTS - ELECTRICAL STORAGE				20	3	●	4	20		LIGHTS - MISC STORAGE	
LIGHTS - PVC STORAGE				20	5	●	6	20		LIGHTS - WELLFIELD STORAGE	
LIGHTS - OUTSIDE YARD				20	7	●	8	20		LIGHTS - ELECTRICAL OFFICE	
??				20	9	●	10		30	AC TECH SHOP	
RECEPTACLE - TECH SHOP				20	11	●	12				
RECEPTACLE - WELD AREA				20	13	●	14		30	AC TECH SHOP	
RECEPTACLE - TECH SHOP				20	15	●	16				

SUB PANEL "A2" (TECH SHOP CONEX, FED FROM PNL "A")											
VOLTAGE: ---			MOUNTING: SURFACE				KVA:				
BUS: ---			TYPE:				CURRENT:				
LOAD			KVA	CB	NO		NO	CB	KVA	LOAD	
AC - ELECTRICAL OFFICE				30	1	●	2	20		RECEPTACLE - ELECTRICAL OFFICE	
				30	3	●	4	20		SMOKE ALARM ELECTRICAL	
LIGHTS - OUTSIDE				20	5	●	6	20		CORD REEL	
BLANK				--	7	●	8	--		BLANK	

PANEL "C" (CONTROL ROOM, FED FROM PNL "MUPS")											
VOLTAGE: 120/208			MOUNTING: SURFACE				KVA:				
BUS:			TYPE:				CURRENT:				
LOAD			KVA	CB	NO		NO	CB	KVA	LOAD	
STAGE 3 MIXED VAULT				15	1	●	2	15		BLANK	
MCS1 PRIMARY POWER				15	3	●	4	15		DC300-301/LOI FILTER INSTRUM	
MCS1 PRIMARY POWER				15	5	●	6	15		DC300-302/LOI FILTER INSTRUM	
SPARE				15	7	●	8	15		DC300-303/LOI FILTER INSTRUM	
SPARE				15	9	●	10	15		DC300-304/LOI FILTER INSTRUM	
SPARE				15	11	●	12	15		DC300-305/LOI FILTER INSTRUM	
RECEPTACLE - OPERATOR LAB				15	13	●	14	15		DC300-306/LOI FILTER INSTRUM	
RECEPTACLE - OPERATOR LAB				15	15	●	16	15		DC300-307/LOI FILTER INSTRUM	
SPARE ?				15	17	●	18	15		DC300-308/LOI FILTER INSTRUM	
???				40	19	●	20	15		SPARE	
SPARE				15	21	●	22	15		SPARE	
SPARE				15	23	●	24	15		TELEPHONE ROOM	
SPARE				15	25	●	26	15		CLEARWELL OUTLET VAULT	
AIT-101A				15	27	●	28	15		SPARE	
AIT ROOM/AMMONIATOR				15	29	●	30	15		SPARE	
SPARE				15	31	●	32	15		FIRE ALARM	
SPARE				15	33	●	34	15		SPARE	
?				15	35	●	36	15		?	
SPARE				15	37	●	38	15		SPARE	
SPARE				15	39	●	40	15		OLD SWITCHGEAR ?	
SPARE				15	41	●	42	15		SPARE	

PANEL "DP-3" (PIPE GALLERY, FED FROM SWITCHBOARD "MSE")											
VOLTAGE: 277/480			MOUNTING: SURFACE				KVA:				
BUS:			TYPE:				CURRENT:				
LOAD			KVA	CB	NO		NO	CB	KVA	LOAD	
DEHUMIDIFIER #3					1	●	2	15		CHEMICAL ISLAND TANK GAGE& INDICATOR BOX LITE	
					3	●	4	15		CHEMICAL ISLAND SPARE	
					5	●	6	15		SPARE	
PIPE GALLERY EXHAUST FAN EF-6				15	7	●	8	15		CAUSTIC FLOW CONTROL (FIT-662 & FIT-663)	
CAUSTIC VALVES CONTROL				20	9	●	10	20		ANIONIC POLYMER PUMPS (CFP-651 & CFP-652)	
SPARE				20	11	●	12	20		AMMONIA ALARM/LEVEL	
				20	13	●	14	20		LIGHTS/RECPT - CHEMICAL ISLAND	
SPARE				20	15	●	16	20		SPARE	
				20	17	●	18	20		RECEPTACLE, GFI - POLY	
SPARE				20	19	●	20	30		HEATER OVER CAUSTIC	
				20	21	●	22	30			
THERMOSTAT FOR CAUSTIC HEATER				20	23	●	24	15		CAUSTIC TANK LEVEL (LIT-661)	
FERRIC FLOW CONTROLS (FIT-639A & FIT-639B)				20	25	●	26			HYDROCHLORIDE PANEL (CHEMICAL ISLAND)	
BLANK				--	27	●	28	30			
CAUSTIC VFD FAN				20	29	●	30				





PANEL "C2" (SERVER ROOM, FED FROM PNL "MUPS")											
VOLTAGE: 120/208			MOUNTING: SURFACE				KVA:				
BUS:			TYPE:				CURRENT:				
LOAD			KVA	CB	NO		NO	CB	KVA	LOAD	
DC00-LCP-MCS1				20	1	●	2	30		DC2.2 DAF	
DC02-PCP-200/LCP-200				20	3	●	4	20		DC02-PCP-201	
RECEPTACLE - FILTER GALLERY				20	5	●	6	20		SPARE	
DC04-PCP-400				20	7	●	8	20		DC300-303/LOI FILTER INSTRUM	
RECEPTACLE - PIPE GALLERY				20	9	●	10	20		SPARE	
DC06-PCP-601				20	11	●	12	40		DC06-R10-601	
RECEPTACLE - PIPE GALLERY				20	13	●	14	20		RECEPTACLE - CONTROL CONSOLE	
DC09-PCP-900				20	15	●	16	20		PLC-DC6.2	
DC00-LCP-MCS5.3				20	17	●	18	20		RECEPTACLE - CONTROL CONSOLE	
TEMP SERVERS				20	19	●	20	20		RECEPTACLE - CONTROL CONSOLE	
TEMP SERVERS				15	21	●	22	20		RECEPTACLE - CONTROL CONSOLE	
SPARE				15	23	●	24	20		RECEPTACLE - CONTROL CONSOLE	
SPARE				20	25	●	26	15		SPARE	
LCP-201				20	27	●	28	15		SPARE	
LCP-202				15	29	●	30	15		SPARE	
LCP-203				15	31	●	32	15		TRANSMITTANCE METER 445	
LCP-204				15	33	●	34	15		RECEPTACLE - CONTROL CONSOLE	
WATER QUALITY OFFICE				15	35	●	36	15		SPARE	
OPERATION MANAGER OFFICE				15	37	●	38	40		SPARE	
PLANT SUPERVISOR OFFICE				15	39	●	40	40			
CMMS OFFICE/OPERATION LAB				15	41	●	42	40			

PANEL "DP-2" (PIPE GALLERY, FED FROM SWITCHBOARD "MSE")											
VOLTAGE: ---			MOUNTING: SURFACE				KVA:				
BUS: ---			TYPE:				CURRENT:				
LOAD			KVA	CB	NO		NO	CB	KVA	LOAD	
SPARE				125	1	●	2	60		ELEVATOR	
SPARE				30	3	●	4	20		FILTERED WATER SAMPLE PUMP #1	
AIR COMPRESSOR #2				20	5	●	6	30		CLEARWELL INLET VAULT	
AIR COMPRESSOR #1				20	7	●	8	15		BACKWASH RATE CONTROL VAV-P1	
CONDITIONED SAMPLE PUMP				15	9	●	10	15		SETTLED SAMPLE PUMP	
CAUSTIC VFD PANEL				15	11	●	12	70		AC-3 (IN OFF POSITION)	
EP-1 (SOUTH BLDG STORAGE)				80	13	●	14	80		EP-2 (BACKWASH PUMP, P-2)	

PANEL "LP-1" (BOOSTER PUMP STATION, FED FROM SWITCHBOARD "MSB-BPS")											
VOLTAGE: 120/140				MOUNTING: SURFACE					KVA:		
BUS:				TYPE:		MAIN: 80/2			CURRENT:		
LOAD				KVA	CB	NO		NO	CB	KVA	LOAD
BPSCP					20	1	●	2	20		LIGHTS – ELECTRICAL ROOM
BPSCP						3	●	4	20		LIGHTS – PUMP ROOM
RECEPTACLE – ELECTRICAL ROOM					20	5	●	6	20		CHLORINE LEAK PANEL (OFF)
RECEPTACLE – PUMP ROOM					20	7	●	8	20		LIGHTS – EXTERIOR
RECEPTACLE – EXTERIOR					20	9	●	10	20		LIGHTS – EXTERIOR
RECEPTACLE – OCL					20	11	●	12	40		SP-2
MOD-1					20	13	●	14	20		RECEPTACLE – 2ND FLASH MIX
SP-1					20	15	●	16	20		LIGHTS – 2ND FLASH MIX
SP-3					20	17	●	18	20		EMERGENCY LIGHTS
BATTERY CHARGER					20	19	●	20	30		CO2
PORTA PAC NORTH (OFF)					30	21	●	22	30		
SPARE					20	23	●	24	20		RECEPTACLE – CONTROL CONSOLE
SPARE					20	25	●	26	20		SPARE
PORTA PAC SOUTH (OFF)					30	27	●	28	20		FIT-127
PORTABLE GENERATOR POWER					50	29	●	30	20		RECEPTACLE – POLE LIGHT
CONTROL BUILDING					40	31	●	32	50		PORTABLE GENERATOR POWER
					40	33	●	34	--		BLANK
BLANK					--	35	●	36	--		BLANK
BLANK					--	37	●	38	--		BLANK
BLANK					--	39	●	40	--		BLANK
BLANK					--	41	●	42	--		BLANK

PANEL "DAF-LP-1" (DAF BUILDING, PNL "DAF-DP-2")										
VOLTAGE: 120/208			MOUNTING: SURFACE					KVA:		
BUS:			TYPE:					CURRENT:		
LOAD			KVA	CB	NO		NO	CB	KVA	LOAD
LIGHTING — OPERATION DECK				20	1	●	2	20		RECEPTACLE — OPERATION DECK
LIGHTING — OPERATION DECK				20	3	●	4	20		RECEPTACLE — FLOATATION ZONE
LIGHTING — FLOATATION ZONE				20	5	●	6	20		RECEPTACLE — OUTDOOR
LIGHTING — FLOATATION ZONE				20	7	●	8	20		RECEPTACLE — PUMP ROOM
LIGHTING — LOWER LEVEL HALL				20	9	●	10	20		RECEPTACLE — PUMP ROOM
LIGHTING — PUMP ROOM				20	11	●	12	20		PANEL DC 2.1 (INLET STRUCTURE)
LIGHTING — PUMP ROOM				20	13	●	14	20		SPARE
LIGHTING — OUTDOOR				20	15	●	16	20		SPARE
LIGHTING — OUTDOOR				20	17	●	18	20		FIT-220
LIGHTING — INLET STRUCTURE				20	19	●	20	20		INLET STRUCTURE SUMP PUMP-125
RECEPTACLE — ROOF				20	21	●	22	20		SPARE
DUCT DETECTOR				20	23	●	24	20		SPARE
LIGHTING — BASIN UNDERWATER				20	25	●	26	20		INLET STRUCTURE EF-199
LIGHTING — CONTROL PANEL				20	27	●	28	20		SPARE
INLET STRUCTURE HEAT TRACE				20	29	●	30	20		SPARE
LIGHTING — BASIN				20	31	●	32	20		SPARE
SPARE				20	33	●	34	20		SPARE
SPARE				20	35	●	36	20		SPARE
SPARE				20	37	●	38	20		SPARE
SPARE				20	39	●	40	20		SPARE
SPARE				20	41	●	42	20		SPARE
MAIN		125	43	●	44	--	BLANK			
			45	●	46	--	BLANK			
			47	●	48	--	BLANK			
			49	●	50	--	BLANK			
			51	●	52	--	BLANK			
			53	●	54	--	BLANK			

PANEL "F"									
(PIPE GALLERY, FED FROM SWITCHBOARD "DPE")									
VOLTAGE: 120/208			MOUNTING: SURFACE				KVA:		
BUS:			TYPE:				CURRENT:		
LOAD			KVA	CB	NO	NO	CB	KVA	LOAD
PANEL "E"		150							
MAIN		225							
LIGHTING - CARBON ROOM		20	1			2	20		LIGHTING - CHEMICAL MIX
LIGHTING - CHLORINE STORAGE		20	3			4	20		LIGHTING - CHEMICAL MIX
LIGHTING - PIPE GALLERY		20	5			6	20		LIGHTING - CHEMICAL MIX
LIGHTING - WEST OUTSIDE (ON PHOTOCELL)		20	7			8	20		LIGHTING - CHEMICAL MIX
LIGHTING - OLD SHOP & STORAGE		20	9			10	20		LIGHTING - CHEMICAL MIX
LIGHTING - PUMP ROOM		20	11			12	20		LIGHTING - ELEVATOR PIT, STORE ROOM
RECEPTACLE - CHLORINE & CHEMICAL STORAGE		20	13			14	20		LIGHTING - PIPE GALLERY
RECEPTACLE - STAIRS, ELEVATOR, STORE & PUMP ROOM		20	15			16	20		LIGHTING - PIPE GALLERY, BACK UP LITES
RECEPTACLE - CHEMICAL MIX ROOM (CAUSTIC SOUNDER & HEATER)		20	17			18	20		LIGHTING - PIPE GALLERY
RECEPTACLE - PIPE GALLERY		20	19			20	20		LIGHTING - ENG/GEN & STORE RM.
LIGHTING - WASH WATER RECOVERY STRUCTURE		20	21			22	20		RECEPTACLE - ENG/GEN & STORE ROOM
LIGHTING - TREATED WATER VAULT & EMERGENCY LIGHT OVER PHONE		20	23			24	20		LIGHTING - FILTER 1 & 2
INLET WATER METER BOX		20	25			26	20		LIGHTING - FILTER 3 & 4
RECEPTACLE - REMOTE STRUC., SIGNATURE PROPERTIES METER, WW POND CABINET FAN		20	27			28	20		LIGHTING - SEDIMENT TANKS
RECEPTACLE - PULSATOR		20	29			30	20		LIGHTING - PIPE GALLERY
LIGHTING - TREATMENT UNIT POST TOP, WEST LIGHTS		20	31			32	20		CL2 HEATER
LIGHTING - FLOC & COLL.		20	33			34	30		COMPRESSOR
RECEPTACLE - FLOC & COLL.		20	35			36	20		LIGHTING - PIPE GALLERY
RECEPTACLE - PIPE GALLERY		20	37			38	--		BLANK
BLANK		--	39			40	--		BLANK

PANEL "G"										
(DECANT STRUCTURE, FED FROM DRYING BED CONTROL)										
VOLTAGE: 120/240			MOUNTING: INSIDE DRYING BED CONTROL PANEL					KVA:		
BUS: 100A			TYPE:		MAIN: 50A			CURRENT:		
LOAD			KVA	CB	NO		NO	CB	KVA	LOAD
???				40	1		2	20		LIGHTING -- EXTERIOR RECEPTACLE -- EXTERIOR
LIGHTING, HEATER & SURFACE SCATTER				15	5		6	15		CONTROL/POWER
				15	7		8			

DEL VALLE WATER TREATMENT PLANT ELECTRICAL POWER SYSTEM AS-BUILTS AND MODIFICATIONS

PANEL SCHEDULES - 4

Scale	NONE
Drawing No.	E-27
Sheet No.	29 of 30
PROJECT No.	WC-266

2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS
Rev.	Date	By	Description

Designed
Drawn JH
Checked TB
FILE No.



ZONE 7 WATER AGENCY
100 North Canyons Parkway
Livermore California, 94551

BAR IS ONE INCH
AT FULL SCALE

0 1"

IF NOT ONE INCH
SCALE ACCORDINGLY

Q:\Facilities\Treatment Plants\DWTP\2016 (WC-266) DWTP Electrical Power System As-Built and Modification\02-Design\Cad\Current\WC266-E-24 THRU E-28.dwg

PANEL "LP-FA"											
VOLTAGE: 120/208				MOUNTING: SURFACE				KVA:			
BUS:				TYPE:				CURRENT:			
LOAD				KVA	CB	NO		NO	CB	KVA	LOAD
MV-701					15	1	●	2	15		MV-702
MV-703					15	3	●	4	15		MV-704
MV-706					15	5	●	6	15		MV-705
MV-707					15	7	●	8	15		MV-708
MV-711					15	9	●	10	15		MV-712
LCP-655					20	11	●	12	20		EF-700
SPARE					20	13	●	14	20		SPARE
SPARE					20	15	●	16	20		SPARE
SPARE					20	17	●	18	20		SPARE
SPARE					20	19	●	20	20		SPARE
SPARE					20	21	●	22	20		SPARE
SPARE					20	23	●	24	20		SPARE
SPARE					20	25	●	26	20		SPARE
SPARE					20	27	●	28	20		SPARE
SPARE					20	29	●	30	20		SPARE
SPARE					20	31	●	32	20		SPARE
SPARE					20	33	●	34	20		SPARE
SPARE					30	35	●	36	20		SPARE
						37	●	38	20		SPARE
TVSS					15	39	●	40	20		SPARE
						41	●	42	15		SPARE

PANEL "B"											
VOLTAGE: 120/208				MOUNTING: SURFACE				KVA:			
BUS:				TYPE:				CURRENT:			
LOAD				KVA	CB	NO		NO	CB	KVA	LOAD
RECEPTACLE - LAB/VAC PUMP 4					20	1	●	2	20		RECEPTACLE - REFRIGERATOR
RECEPTACLE - LAB/FAN					20	3	●	4	20		RECEPTACLE - ANALYZER RM 120V
RECEPTACLE - COPY ROOM					20	5	●	6	20		RECEPTACLE - ANALYZER RM 220V
MICRO WAVE					15	7	●	8	20		RECEPTACLE - COPY ROOM
STOVE					40	9	●	10	15		RECEPTACLE - COPY ROOM
						11	●	12	15		RECEPTACLE - COPY ROOM
WATER HEATER					60	13	●	14	15		--
						15	●	16	30		CIRCULATOR PUMP
RECEPTACLE - FILE/STORAGE					20	17	●	18	--		BLANK
BLANK					--	19	●	20	--		BLANK

PANEL "HYPO"											
VOLTAGE: --				MOUNTING: SURFACE				KVA:			
BUS: --				TYPE:				CURRENT:			
LOAD				KVA	CB	NO		NO	CB	KVA	LOAD
BLANK					--	1	●	2	--		BLANK
SODIUM HYPO MOV CONTROL PNL DC06-LCP-615					15	3	●	4	--		BLANK
SODIUM HYPO FILL STATION CONTROL PNL DC06-LCP-614					15	5	●	6	--		BLANK
LIGHTS - POLE					20	7	●	8	--		BLANK
SPARE					15	9	●	10	20		RECEPTACLE - @ MOV CONTROL PNL
SPARE					15						
HYPO TANK VALVE					15						
SUMP PUMP					20	11	●	12	20		RECEPTACLE - GFI (BELOW PNL)

HAZ-MAT PANEL											
VOLTAGE: 120/240				MOUNTING: SURFACE				KVA:			
BUS: 100A				TYPE:				CURRENT:			
LOAD				KVA	CB	NO		NO	CB	KVA	LOAD
SPARE					30	1	●	2	30		SPARE
LIGHTING					20	3	●	4	15		ALARM
SPARE					15	5	●	6	20		SPARE

* BRACERS 1 AND 2 WERE ONCE THE INPUT BRACERS FOR THE SOLAR PANEL THAT HAS SINCE BEEN REMOVED.

PANEL "MCC2-DP"											
VOLTAGE:				MOUNTING: INSIDE MCC2				KVA:			
BUS: 100A				TYPE:				CURRENT:			
LOAD				KVA	CB	NO		NO	CB	KVA	LOAD
SPARE					30	1	●	2	30		SPARE
						3	●	4			
SPARE					30	5	●	6	20		SPARE
						7	●	8	20		SPARE
SPARE					20	9	●	10	20		SPARE
SPARE					20	11	●	12	20		SPARE
						13	●	14	20		SPARE
SPARE					100	15	●	16	20		SPARE
						17	●	18	--		BLANK

* PANEL LOCATED INSIDE MCC2, MOUNTING SPACE "3A".

PANEL "GS"											
VOLTAGE:				MOUNTING: SURFACE				KVA:			
BUS:				TYPE:				CURRENT:			
LOAD				KVA	CB	NO		NO	CB	KVA	LOAD
							●		125		MAIN
							●		125		
AC					20	1	●	2	15		?
					20	3	●	4	20		?
BLANK					--	5	●	6	--		BLANK
BLANK					--	7	●	8	--		BLANK
BLANK					--	9	●	10	--		BLANK
BLANK					--	11	●	12	--		BLANK

PANEL "MUPS"											
VOLTAGE: 240				MOUNTING: SURFACE				KVA:			
BUS: 225A				TYPE:				CURRENT:			
LOAD				KVA	CB	NO		NO	CB	KVA	LOAD
MAIN					175		●				
							●				
PNL "C"					60	1	●	2	60		PNL "C2"
						3	●	4			
						5	●	6			
BLANK					--	7	●	8			PNL "C3"
BLANK					--	9	●	10	100		
BLANK					--	11	●	12			
BLANK					--	13	●	14	--		BLANK
BLANK					--	15	●	16	--		BLANK
BLANK					--	17	●	18	--		BLANK
BLANK					--	19	●	20	--		BLANK
BLANK					--	21	●	22	--		BLANK
BLANK					--	23	●	24	--		BLANK
BLANK					--	25	●	26	--		BLANK
BLANK					--	27	●	28	--		BLANK
BLANK					--	29	●	30	--		BLANK

RECORD DRAWINGS

					Designed	 <div>ZONE 7 WATER AGENCY 100 North Canyons Parkway Livermore California, 94551</div> <div>BAR IS ONE INCH AT FULL SCALE  IF NOT ONE INCH SCALE ACCORDINGLY</div>	DEL VALLE WATER TREATMENT PLANT ELECTRICAL POWER SYSTEM AS-BUILTS AND MODIFICATIONS		Scale NONE
					Drawn JH		ELECTRICAL		Drawing No. E-28
2	02/17/2022	JH	MODIFICATIONS DURING OZONE CONSTRUCTION		Checked TB		PANEL SCHEDULES - 5		Sheet No. 30 of 30
1	05/20/2019	JH	MODIFICATIONS DURING INSTALLATION OF NEW UPS		FILE No.				PROJECT No. WC-266
Rev.	Date	By	Description						