

SOLIDS HANDLING BUILDING
SP-MCC-B ELEVATION

- | | | | | |
|-------------------------------------|--------------------------------|--|--|--|
| 1A- ETHERNET SWITCH | 2A- SUF-A-1005
TRANSFER FAN | 3A- LCP-1733
BELT PRESS NO 3 | 4A- 40A BREAKER
SPARE | 5A- 20A BREAKER
SPARE |
| 1C- ETHERNET SWITCH
POWER SUPPLY | 2C- SUF-B-1005
TRANSFER FAN | 3B- LCP-1734
BELT PRESS NO 4 | 4B- LCP-1713
BELT PRESS FEED
PUMPS | 5B- PANEL LP-SP-3
TR-SP-3 |
| 1E- PMPB-1003
HOT WATER PUMP | 2E- SUF-C-1005
TRANSFER FAN | 3C- CHF-2212
POLYMER MIX FEED
UNIT | 4C- PMP-2233
DILUTE POLYMER
PUMP | 5C- PMP-2234
DILUTE POLYMER
PUMP |
| 1G- PMPC-1003
HOT WATER PUMP | 2G- SIZE 1 STARTER
SPARE | 3D- SIZE 1 STARTER
SPARE | 4D- SPACE | 5D- SPACE |
| 1J- BL-1003
BOILER | 2J- SPACE | 3F- PMPD-1003
COIL CIRCULATION
PUMP | 4E- SPACE | 5E- SPACE |
| 1K- WEST DOOR
OPERATOR | 2L- SPACE | 3H- PMPE-1003
COIL CIRCULATION
PUMP | 4G- SPACE | 5G- MAIN BREAKER
FROM ES-1 |
| 1L- EAST DOOR
OPERATOR | | 3K- PMP-2206
POLYMER
RECIRCULATION
PUMP | 4J- SPACE | |
| 1M- PANEL SPLP
TR-SP-LPR | | 3L- SPACE | 4L- SPACE | |

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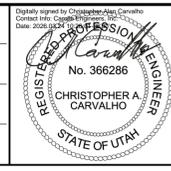
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MARCH 2026

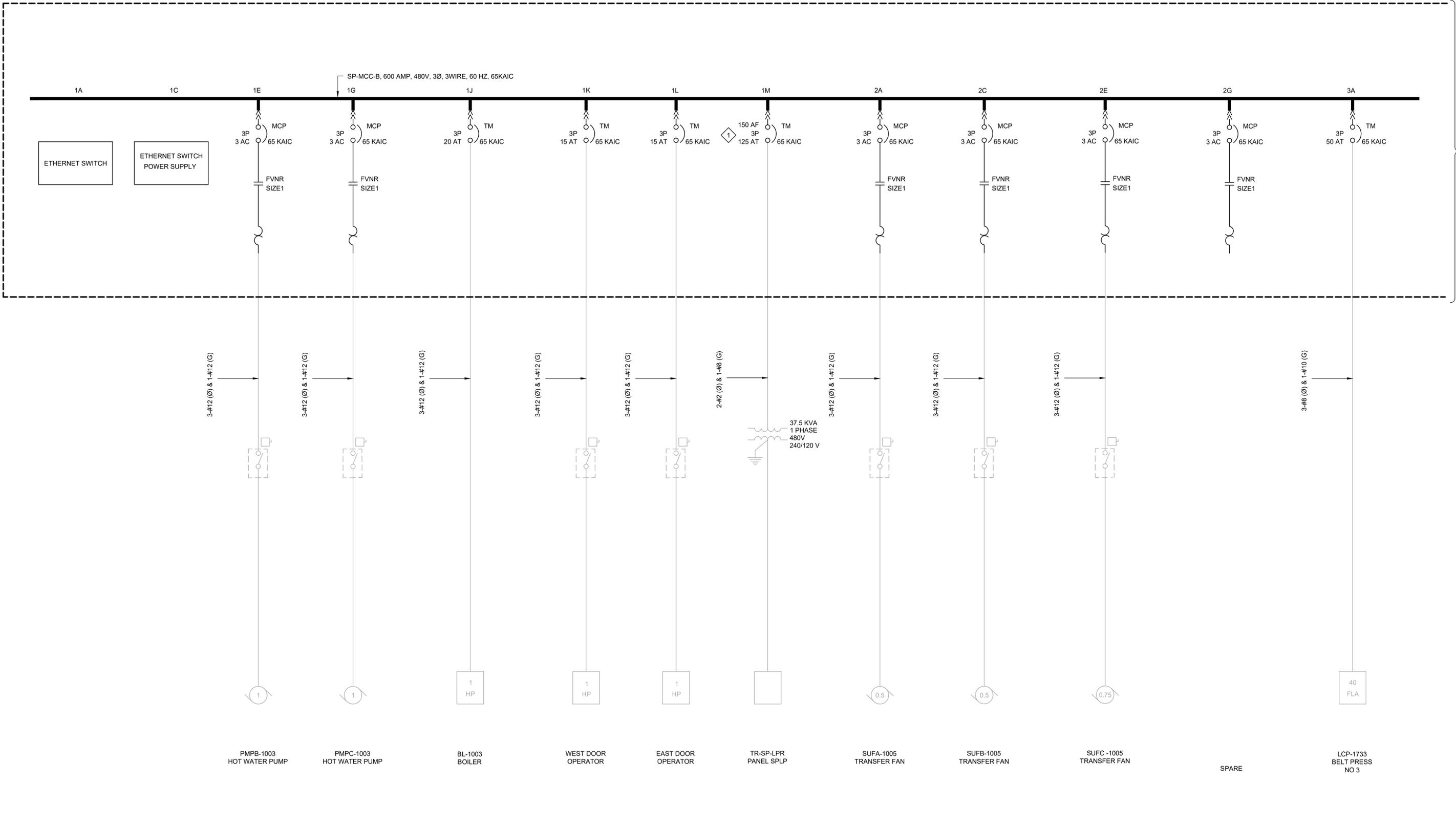


SV South Valley
WATER RECLAMATION FACILITY

7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202633 DRAWING NO. GE-OL-SP-4 SHEET NO. 111 OF 152
MCC REPLACEMENT PROJECT			
ELECTRICAL		SP-MCC-B ELEVATION	

KEY NOTES:
 1. 3-POLE BREAKER RATED FOR SINGLE PHASE USE.



CONTINUED ON THE NEXT DRAWING

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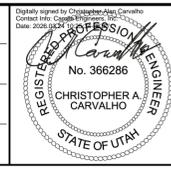
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SOUTH VALLEY WATER RECLAMATION
 MCC REPLACEMENT PROJECT
 ELECTRICAL
SP-MCC-B
ONE-LINE DIAGRAM 1

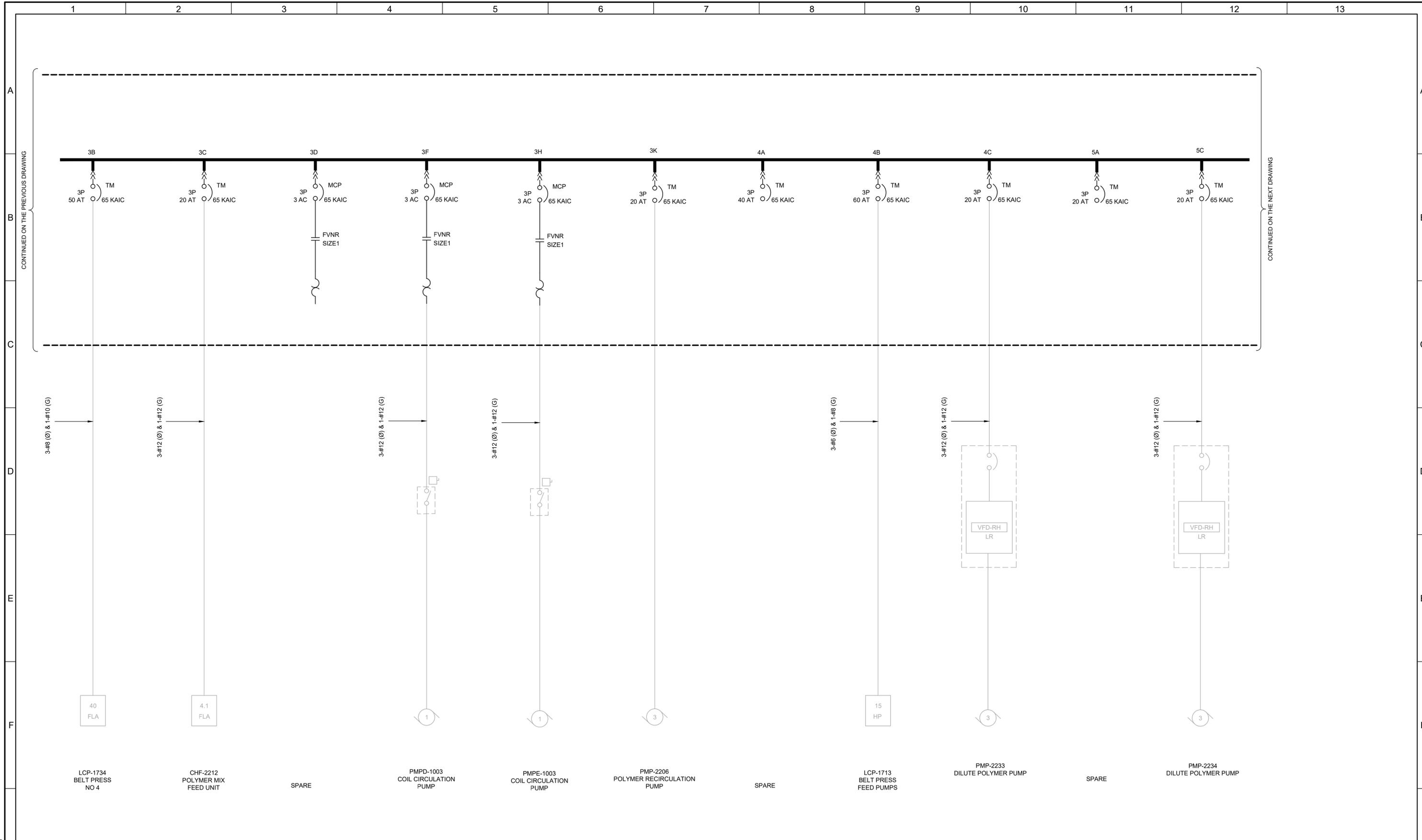
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202633

DRAWING NO.
GE-OL-SP-5

SHEET NO.
112 OF 152



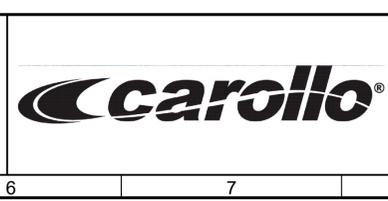
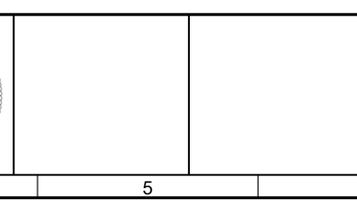
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3			

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

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

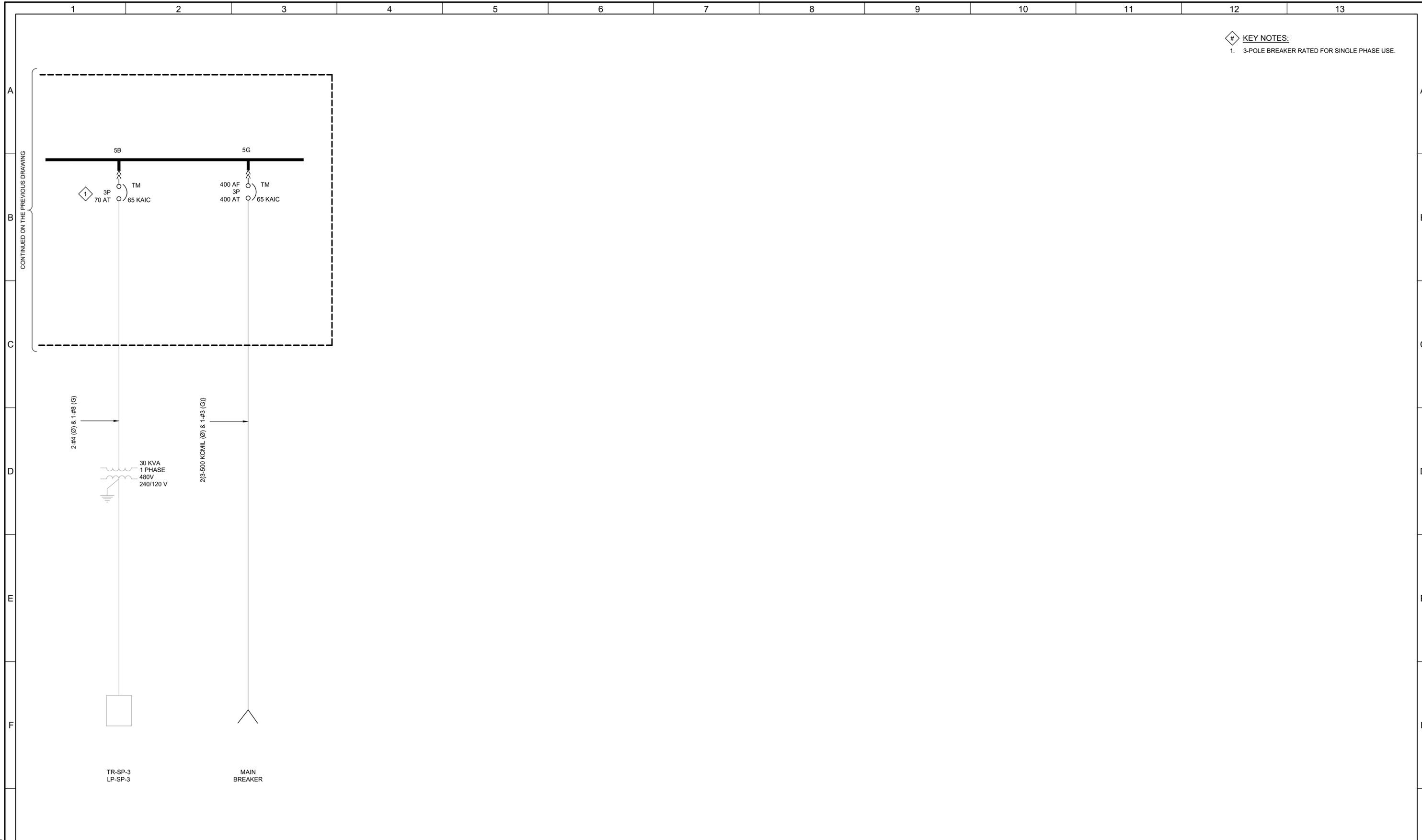
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202633

DRAWING NO.
GE-OL-SP-6

SHEET NO.
113 OF 152

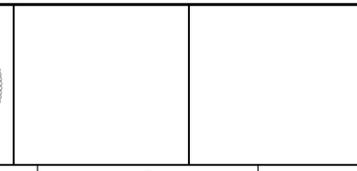
- # KEY NOTES:
 1. 3-POLE BREAKER RATED FOR SINGLE PHASE USE.



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1	9/26/24	MME	DESIGN CLARIFICATION 1

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DATE MARCH 2026	



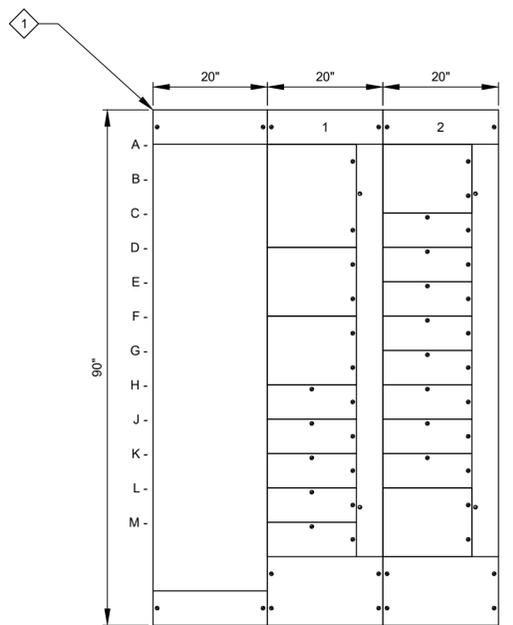
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SOUTH VALLEY WATER RECLAMATION
 MCC REPLACEMENT PROJECT
 ELECTRICAL
SP-MCC-B
ONE-LINE DIAGRAM 3

VERIFY SCALES	JOB NO. 202633
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. GE-OL-SP-7
0 1"	SHEET NO. 114 OF 152

KEY NOTES:

1. THE AUTOMATIC TRANSFER SWITCH IS BEING FURNISHED IN A SEPERATE ENCLOSURE THAT IS NOT PART OF THE MCC. THE DIMENSIONS ARE THE SAME AS AN MCC SECTION.



SOLIDS HANDLING BUILDING
SP-MCC-E ELEVATION

- | | |
|-----------------------------------|------------------------------------|
| 1A- MAIN BREAKER FROM SP-ATS | 2A- ETHERNET SWITCH POWER SUPPLY |
| 1D- CV-1742 FLAT BELT CONVEYOR | 2C- LCP-1731 BELT PRESS NO 1 |
| 1F- CVB-1741 NORTH SCREW CONVEYOR | 2D- CHF-2211 POLYMER MIX FEED UNIT |
| 1H- LCP-1732 BELT PRESS NO 2 | 2E- LCP-1711 BELT PRESS FEED PUMPS |
| 1J- 40A BREAKER SPARE | 2F- SP-B-1 AIR COMPRESSOR |
| 1K- SP1B TR-SP-1B | 2G- PMP-2231 DILUTE POLYMER PUMP |
| 1L- TR-SP-1A SP1A | 2H- PMP-2232 DILUTE POLYMER PUMP |
| 1M- SPACE | 2J- EMV-1741 SLIDE GATE |
| | 2K- 200A BREAKER SPARE |
| | 2L- ETHERNET SWITCH |

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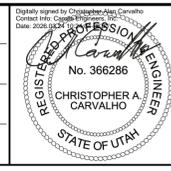
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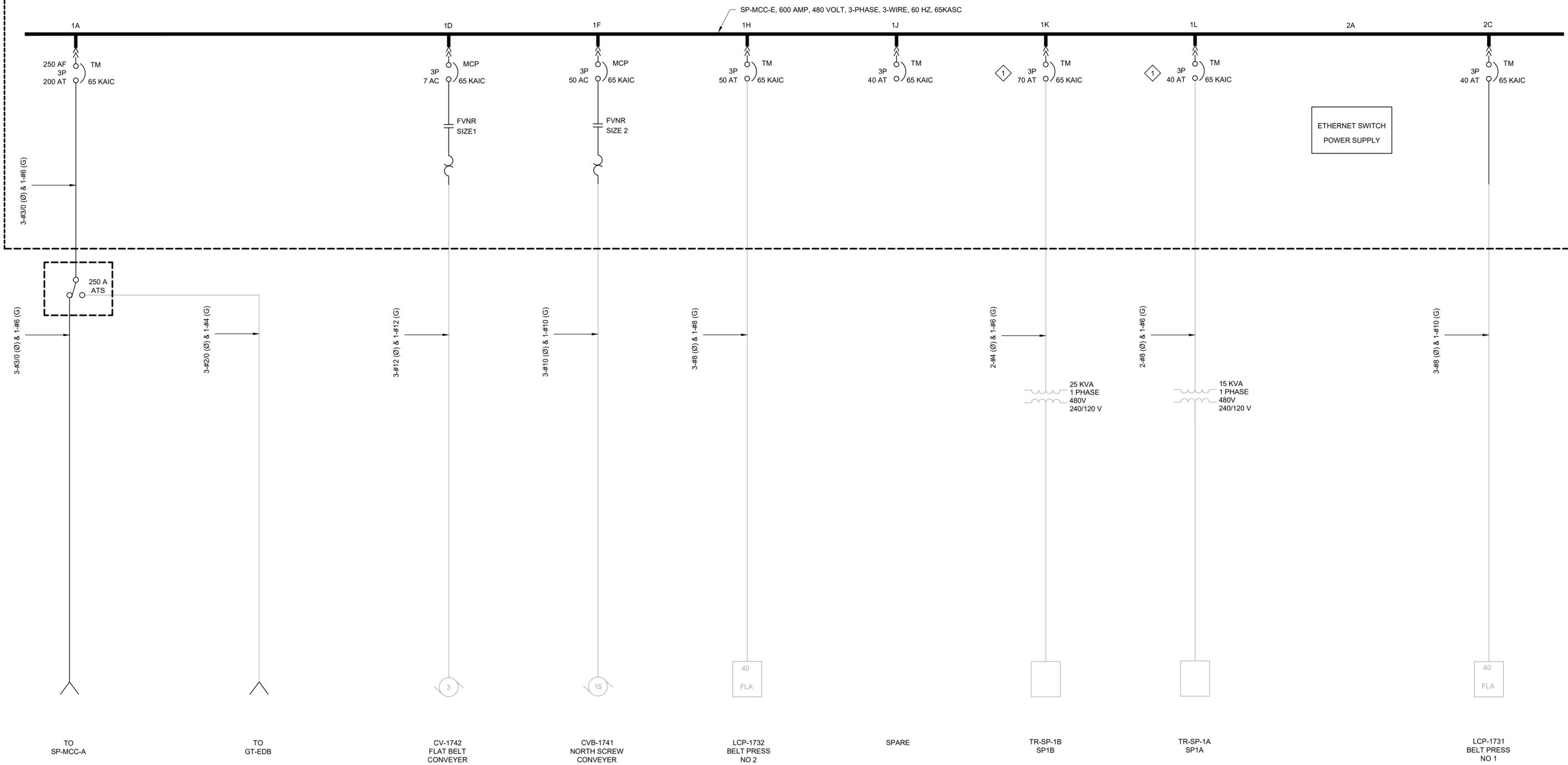
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SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 202633
MCC REPLACEMENT PROJECT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. GE-OL-SP-8
ELECTRICAL		0 1"	SHEET NO.
SP-MCC-E ELEVATION		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	115 OF 152

KEY NOTES:
 1. 3-POLE BREAKER RATED FOR SINGLE PHASE USE.



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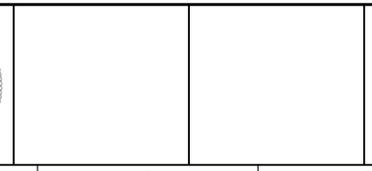
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DATE
MARCH 2026



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SOUTH VALLEY WATER RECLAMATION
 MCC REPLACEMENT PROJECT
 ELECTRICAL
 SP-MCC-E
 ONE-LINE DIAGRAM 1

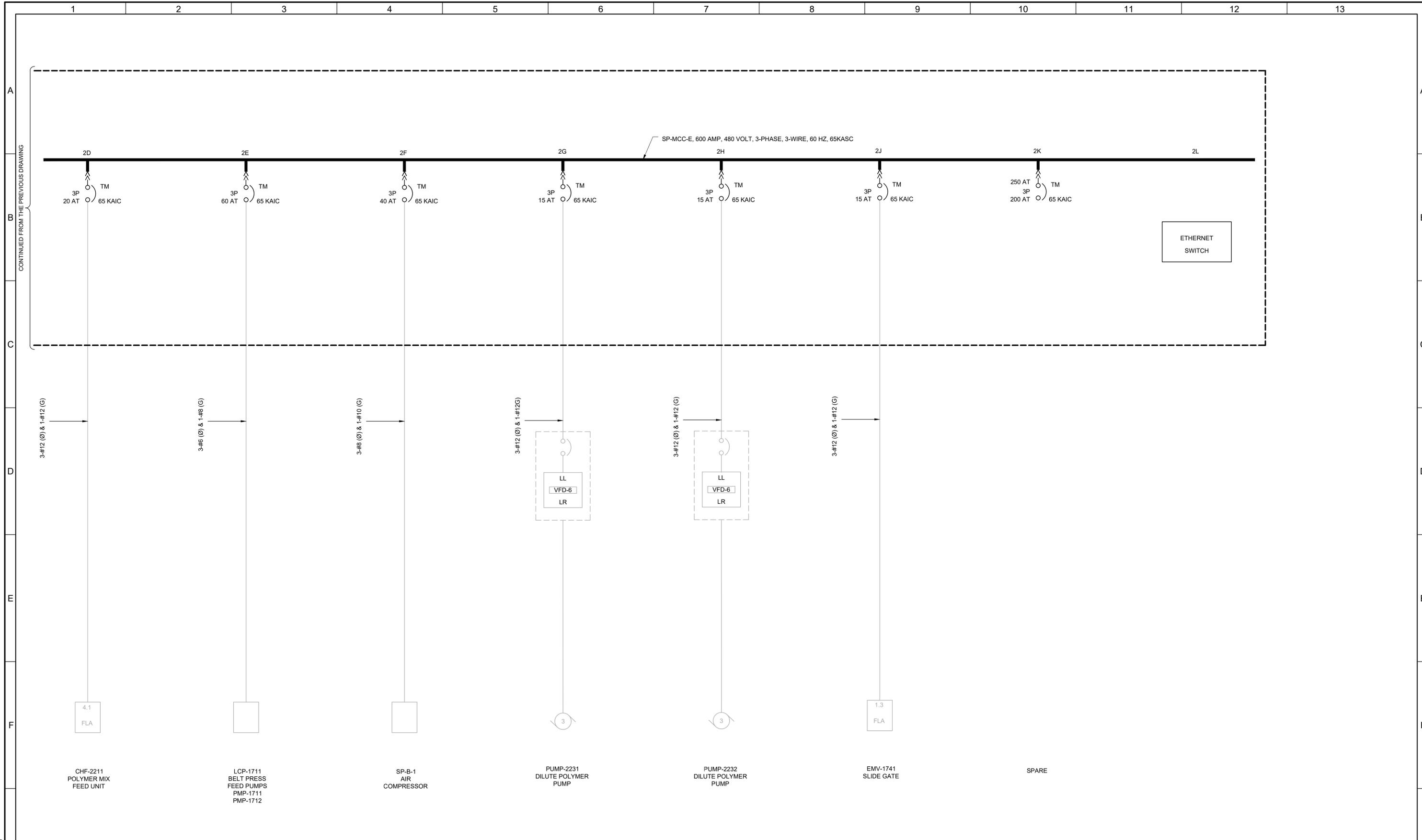
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202633

DRAWING NO.
GE-OL-SP-9

SHEET NO.
116 OF 152



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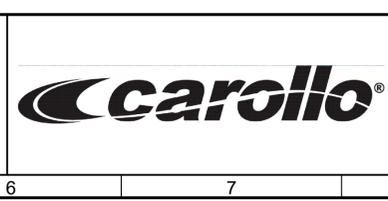
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JGB

DATE
MARCH 2026

Digitally signed by Christopher A. Carvalho
Contact Info: CAC@carollo.com
Date: 2026.03.04 10:58:05 -0500

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



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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.
117 OF 152

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CONDUIT SCHEDULE

MCC REPLACMENT PROJECT

12/1/25

CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE		
A1010		0.75"	3	#10	XHHW-2	1	#10	XHHW-2	FR: ROOF EVAP COOLER TO: HW-MCC-B 3 #10 >> ROOF EVAP COOLER POWER	
A1012		0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: SUMP PUMPS 1 & 2 TO: HW-MCC-B 3 #12 >> SUMP PUMPS 1 & 2 POWER	
A1014		0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: LHW-2-A TO: HW-MCC-B 3 #12 >> LHW-2-A POWER	
A1025		2.5"	3	250	XHHW-2	1	#2	XHHW-2	FR: HW-VFD-5 TO: HW-MCC-B 3 250 >> HW-VFD-5 POWER	
A1026		2.5"	3	250	XHHW-2	1	#2	XHHW-2	FR: HW-VFD-5 TO: HW-MCC-B 3 250 >> HW-VFD-5 POWER	
A4101		0.75"	1		CAT6	1	#14	XHHW-2	FR: HW-MCC-A TO: PCM-100 1 CAT6 >> HW-MCC-A NETWORK	
A4201		0.75"	1		CAT6	1	#14	XHHW-2	FR: HW-MCC-B TO: PCM-100 1 CAT6 >> HW-MCC-B NETWORK	
A4202		0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: HW-MCC-B TO: PCM-100 2 #12 >> ETHERNET SWITCH POWER	
A4102		0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: HW-MCC-A TO: PCM-100 2 #12 >> ETHERNET SWITCH POWER	
E1015	6E-01	2"	3	#4/0 #12 #14	XHHW-2 XHHW-2 XHHW-2	1	#2	XHHW-2	FR: UWP-3311 TO: CC-MCC-A 3 #4/0 >> UWP-3311 POWER 2 #12 >> MWH-3311 2 #14 >> TSH-3311	
E1016	6E-01	2.5"	3	#4/0 #12 #14	XHHW-2 XHHW-2 XHHW-2	1	#2	XHHW-2	FR: VFD-3311 TO: CC-MCC-A 3 #4/0 >> P-3311 POWER 2 #12 >> MWH-3311 2 #14 >> TSH-3311 2 #14 >> PSH-3311 CONTROL	E4058
E1017	6E-01	2.5"	3	250	XHHW-2	1	#2	XHHW-2	FR: VFD-3311 TO: CC-MCC-A 3 250 >> VFD-3311 POWER	
E1021	6E-01	1.5"	3	#1/0 #12 #14	XHHW-2 XHHW-2 XHHW-2	1	#6	XHHW-2	FR: UWP-3313 TO: CC-MCC-A 3 #1/0 >> UWP-3313 POWER 2 #12 >> MWH-3313 2 #14 >> TSH-3313	
E1022	6E-01	2"	3	#1/0 #12 #14	XHHW-2 XHHW-2 XHHW-2	1	#6	XHHW-2	FR: VFD-3313 TO: CC-MCC-A 3 #1/0 >> P-3313 POWER 2 #12 >> MWH-3313 2 #14 >> TSH-3313 2 #14 >> PSH-3313 CONTROL	E4060
E1023	6E-01	1.5"	3	#1/0	XHHW-2	1	#6	XHHW-2	FR: VFD-3313 TO: CC-MCC-A 3 #1/0 >> VFD-3313 POWER	
E1200	6E-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: PMP-971 TO: CC-MCC-A 3 #12 >> PMP-971 POWER	
E4058	6E-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PSH-3311 TO: CC-MCC-A 2 #14 >> PSH-3311 CONTROL	E1016
E4060	6E-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PSH-3313 TO: CC-MCC-A 2 #14 >> PSH-3313 CONTROL	E1022

CONDUIT SCHEDULE

MCC REPLACMENT PROJECT

12/1/25

CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE		
E4100	6E-01	0.75"	6	#14	XHHW-2	1	#14	XHHW-2	FR: ATS (CC-MCC-B) TO: PCM-3300 6 #14 >> ATS (CC-MCC-B) CONTROL	
E4101	6E-01	0.75"	6	#14	XHHW-2	1	#14	XHHW-2	FR: ATS TO: PCM-3300 6 #14 >> ATS CONTROL	
E4102	6E-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: CC-MCC-A TO: PCM-3300 2 #12 >> ETHERNET SWITCH POWER	
E6000	6E-01	0.75"	1		CAT6	1	#14	XHHW-2	FR: CC-MCC-A TO: PCM-3300 1 CAT6 >> CC-MCC-A NETWORK	
N4101		0.75"	1		CAT6	1	#14	XHHW-2	FR: RW-MCC-A TO: AUXILIARY NETWORK PANEL 1 CAT6 >> RW-MCC-A NETWORK	
N4102		0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: RW-MCC-A TO: AUXILIARY NETWORK PANEL 2 #12 >> ETHERNET SWITCH POWER	
N4201		0.75"	1		CAT6	1	#14	XHHW-2	FR: RW-MCC-E TO: AUXILIARY NETWORK PANEL 1 CAT6 >> RW-MCC-E NETWORK	
N4202		0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: RW-MCC-E TO: AUXILIARY NETWORK PANEL 2 #12 >> ETHERNET SWITCH POWER	
N4301		1.5"	4		CAT6	1	#14	XHHW-2	FR: RW-MCC-EA TO: RW-MCC-E 4 CAT6 >> RW-MCC-EA NETWORK	
P4120	17E-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: RW-MCC-E2 TO: CONDUIT TEE 2 #12 >> ETHERNET SWITCH POWER	P4122
P4121	17E-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: RW-MCC-C TO: CONDUIT TEE 2 #12 >> ETHERNET SWITCH POWER	P4122
P4122	17E-01	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: PCM-1500 2 #12 >> ETHERNET SWITCH POWER 2 #12 >> ETHERNET SWITCH POWER	P4120 P4121
P6120	17E-01	0.75"	1		CAT6	1	#14	XHHW-2	FR: RW-MCC-E2 TO: CONDUIT TEE 1 CAT6 >> RW-MCC-E2 NETWORK	P6122
P6121	17E-01	0.75"	1		CAT6	1	#14	XHHW-2	FR: RW-MCC-C TO: CONDUIT TEE 1 CAT6 >> RW-MCC-C NETWORK	P6122
P6122	17E-01	1"	2		CAT6	1	#14	XHHW-2	FR: CONDUIT TEE TO: PCM-1500 1 CAT6 >> RW-MCC-E2 NETWORK 1 CAT6 >> RW-MCC-C NETWORK	P6120 P6121
S4100	10E-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: SP-MCC-A TO: CONDUIT TEE 2 #12 >> ETHERNET SWITCH POWER	S4102
S4101	10E-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: SP-MCC-E TO: CONDUIT TEE 2 #12 >> ETHERNET SWITCH POWER	S4102
S4102	10E-01	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: PCM-1700 2 #12 >> ETHERNET SWITCH POWER 2 #12 >> ETHERNET SWITCH POWER	S4100 S4101
S4103	10E-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: SP-MCC-B TO: PCM-1700 2 #12 >> ETHERNET SWITCH POWER	
S4105	10E-01	0.75"	6	#14	XHHW-2	1	#14	XHHW-2	FR: ATS TO: PCM-1700 6 #14 >> ATS CONTROL	

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

SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
CONDUIT SCHEDULE 1

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

JOB NO. 202633
DRAWING NO. GE-SC-1
SHEET NO. 118 OF 152

Plot Date: 12/1/2025 1:59:50 PM

A

B

C

D

E

F

G

A

B

C

D

E

F

G

CONDUIT SCHEDULE 12/1/25
MCC REPLACEMENT PROJECT

CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE		
S6100	10E-01	0.75"	1		CAT6	1	#14	XHHW-2	FR: SP-MCC-A TO: CONDUIT TEE 1 CAT6 >> SP-MCC-A NETWORK	S6102
S6101	10E-01	0.75"	1		CAT6	1	#14	XHHW-2	FR: SP-MCC-C TO: CONDUIT TEE 1 CAT6 >> SP-MCC-C NETWORK	S6102
S6102	10E-01	1"	2		CAT6	1	#14	XHHW-2	FR: CONDUIT TEE TO: PCM-1700 1 CAT6 >> SP-MCC-A NETWORK 1 CAT6 >> SP-MCC-C NETWORK	S6100 S6101
S6103	10E-01	0.75"	1		CAT6	1	#14	XHHW-2	FR: SP-MCC-B TO: PCM-1700 1 CAT6 >> SP-MCC-B NETWORK	

END OF CONDUIT SCHEDULE

REV	DATE	BY	DESCRIPTION

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SOUTH VALLEY WATER RECLAMATION
 MCC REPLACEMENT PROJECT
 ELECTRICAL
 CONDUIT SCHEDULE 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-SC-2

SHEET NO.
119 OF 152



0 50' 100' 200'

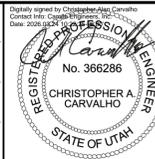


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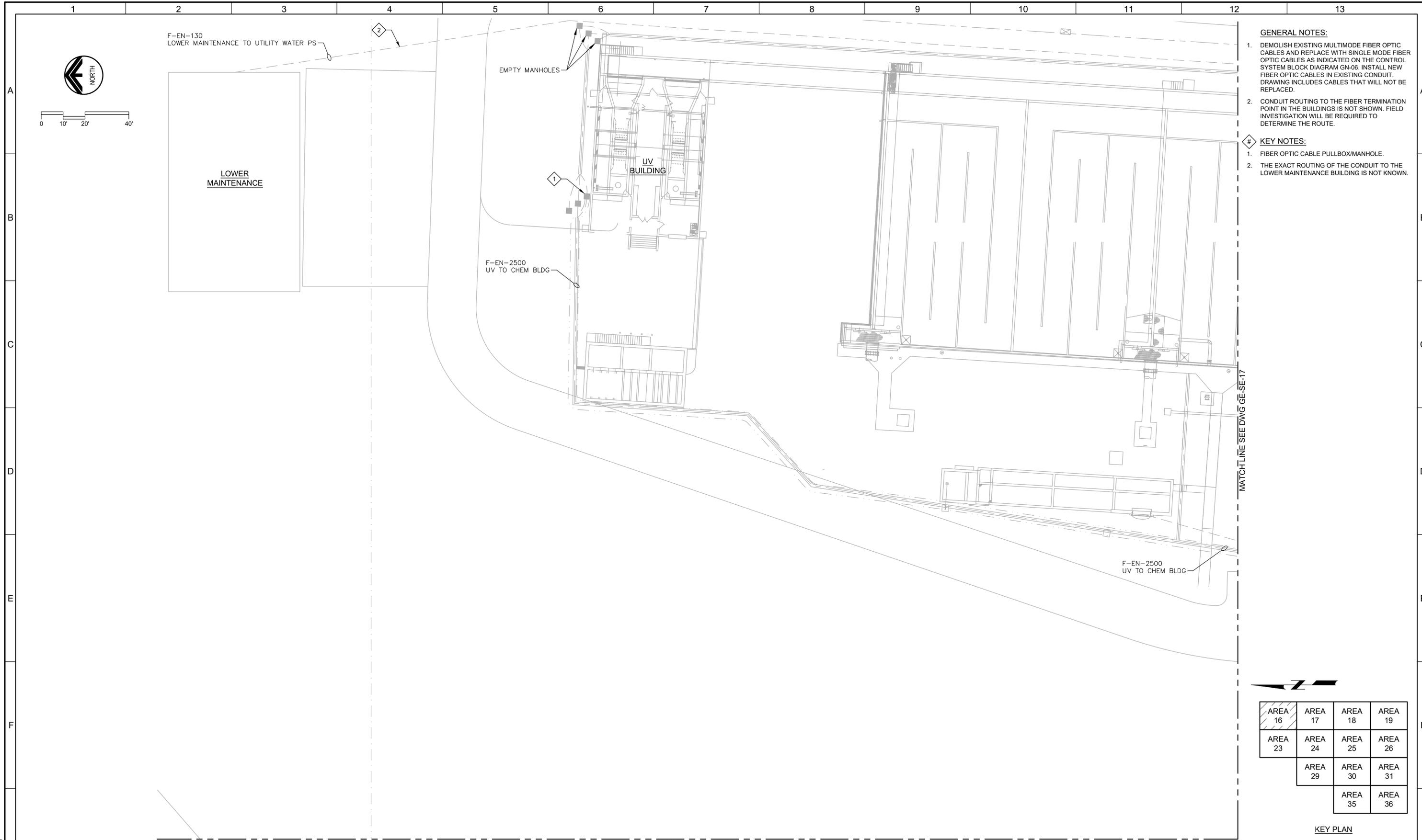


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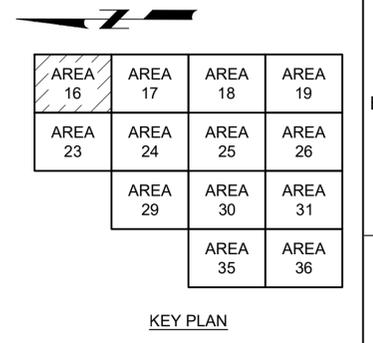
SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
OVERALL ELECTRICAL SITE PLAN

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-SE-1
SHEET NO.
120 OF 152



- GENERAL NOTES:**
- DEMOLISH EXISTING MULTIMODE FIBER OPTIC CABLES AND REPLACE WITH SINGLE MODE FIBER OPTIC CABLES AS INDICATED ON THE CONTROL SYSTEM BLOCK DIAGRAM GN-06. INSTALL NEW FIBER OPTIC CABLES IN EXISTING CONDUIT. DRAWING INCLUDES CABLES THAT WILL NOT BE REPLACED.
 - CONDUIT ROUTING TO THE FIBER TERMINATION POINT IN THE BUILDINGS IS NOT SHOWN. FIELD INVESTIGATION WILL BE REQUIRED TO DETERMINE THE ROUTE.
- KEY NOTES:**
- FIBER OPTIC CABLE PULLBOX/MANHOLE.
 - THE EXACT ROUTING OF THE CONDUIT TO THE LOWER MAINTENANCE BUILDING IS NOT KNOWN.



LAST SAVED BY: evandpoorn

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED
CAC

DRAWN
EYV

CHECKED

DATE
MARCH 2026

Digitally signed by Christopher A. Carvalho
Contact info: CAC@carollo.com
Date: 2026.03.04 10:00:00 -0500

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



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

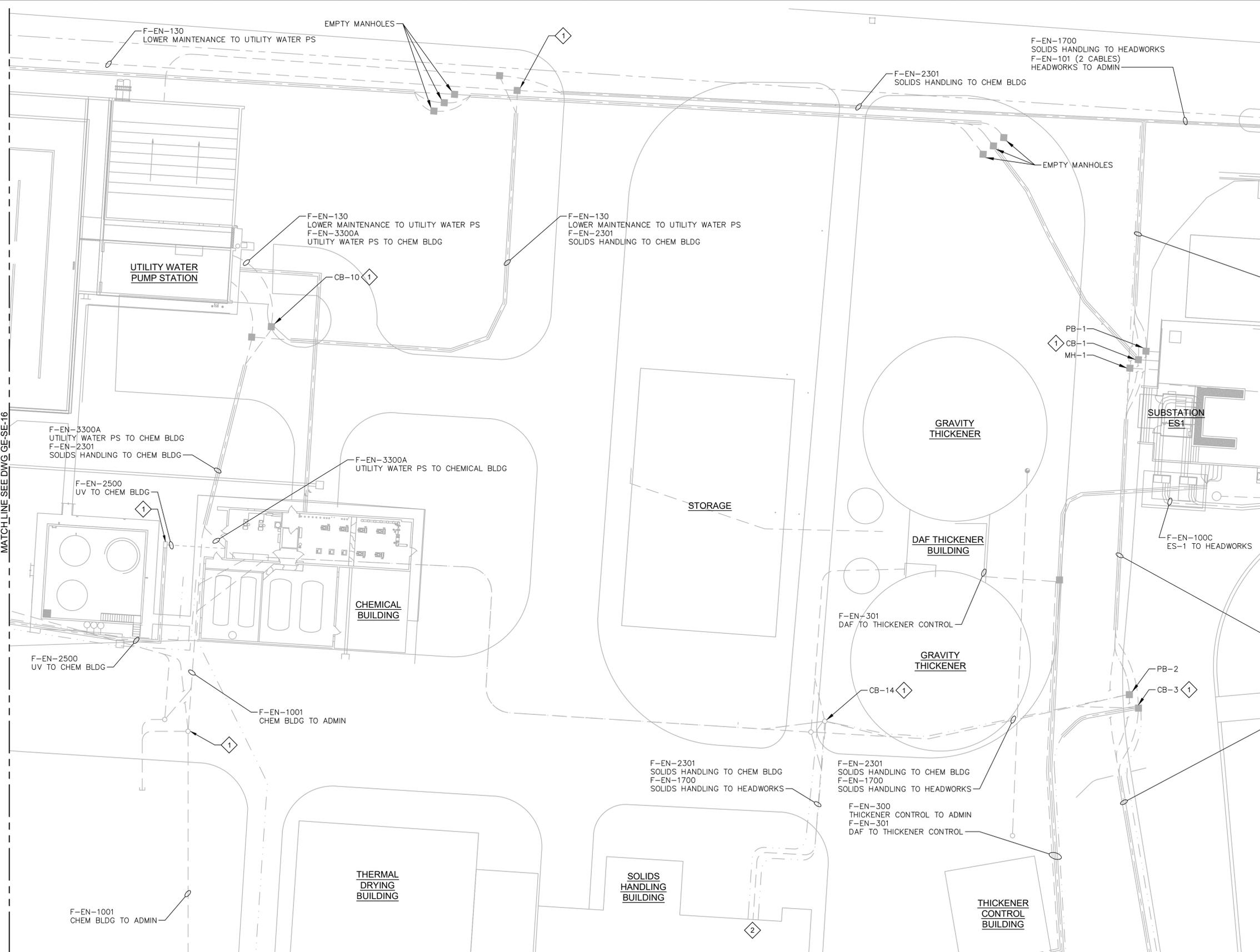
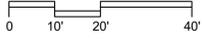
SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
AREA 16 ELECTRICAL SITE PLAN

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-SE-16

SHEET NO.
121 OF 152



- GENERAL NOTES:**
- DEMOLISH EXISTING MULTIMODE FIBER OPTIC CABLES AND REPLACE WITH SINGLE MODE FIBER OPTIC CABLES AS INDICATED ON THE CONTROL SYSTEM BLOCK DIAGRAM GN-06. INSTALL NEW FIBER OPTIC CABLES IN EXISTING CONDUIT. DRAWING INCLUDES CABLES THAT WILL NOT BE REPLACED.
 - CONDUIT ROUTING TO THE FIBER TERMINATION POINT IN THE BUILDINGS IS NOT SHOWN. FIELD INVESTIGATION WILL BE REQUIRED TO DETERMINE ROUTE.

- KEY NOTES:**
- FIBER OPTIC CABLE PULLBOX/MANHOLE.
 - PCM-1700 IS LOCATED ON THE UPPER LEVEL OF THE SOLIDS HANDLING BUILDING.

MATCH LINE SEE DWG GE-SE-16

MATCH LINE SEE DWG GE-SE-18

MATCH LINE SEE DWG GE-SE-24

AREA 16	AREA 17	AREA 18	AREA 19
AREA 23	AREA 24	AREA 25	AREA 26
	AREA 29	AREA 30	AREA 31
		AREA 35	AREA 36

KEY PLAN

LAST SAVED BY: evandorn

REV	DATE	BY	DESCRIPTION
1			
2			
3			

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CAC

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DATE
MARCH 2026



REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER A. CARVALHO
STATE OF UTAH



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

SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
AREA 17 ELECTRICAL SITE PLAN

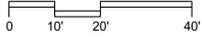
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 11"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

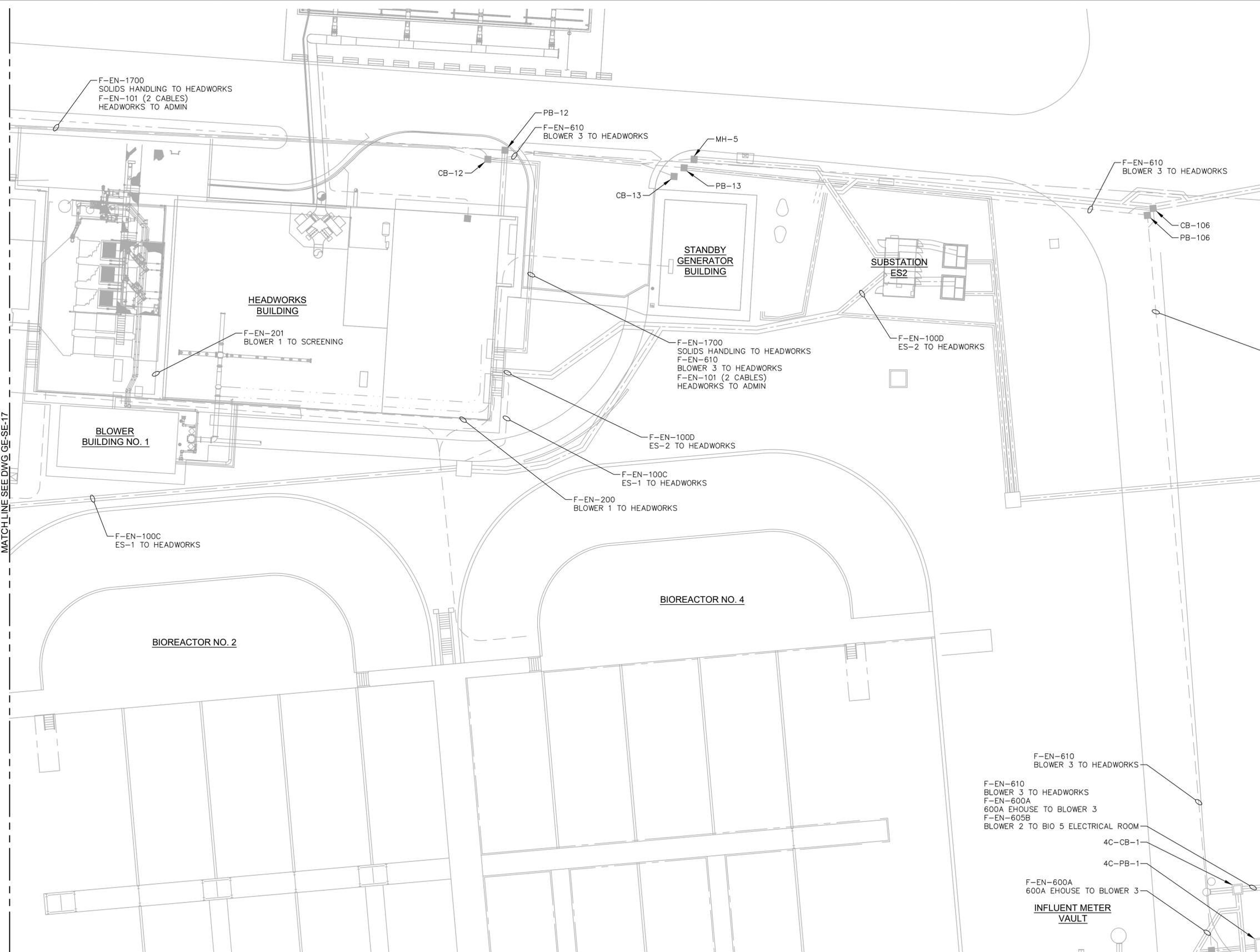
JOB NO.
202633

DRAWING NO.
GE-SE-17

SHEET NO.
122 OF 152



- GENERAL NOTES:**
- DEMOLISH EXISTING MULTIMODE FIBER OPTIC CABLES AND REPLACE WITH SINGLE MODE FIBER OPTIC CABLES AS INDICATED ON THE CONTROL SYSTEM BLOCK DIAGRAM GN-06. INSTALL NEW FIBER OPTIC CABLES IN EXISTING CONDUIT. DRAWING INCLUDES CABLES THAT WILL NOT BE REPLACED.
 - CONDUIT ROUTING TO THE FIBER TERMINATION POINT IN THE BUILDINGS IS NOT SHOWN. FIELD INVESTIGATION WILL BE REQUIRED TO DETERMINE ROUTE.



KEY PLAN

AREA 16	AREA 17	AREA 18	AREA 19
AREA 23	AREA 24	AREA 25	AREA 26
AREA 29	AREA 30	AREA 31	
	AREA 35	AREA 36	

LAST SAVED BY: evandoom

REV	DATE	BY	DESCRIPTION
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DATE
MARCH 2026

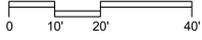
REGISTERED PROFESSIONAL ENGINEER
No. 366286
CHRISTOPHER A. CARVALHO
STATE OF UTAH



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

**SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
AREA 18 ELECTRICAL SITE PLAN**

VERIFY SCALES	JOB NO. 202633
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. GE-SE-18
0 1"	SHEET NO. 123 OF 152
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	



- GENERAL NOTES:**
- DEMOLISH EXISTING MULTIMODE FIBER OPTIC CABLES AND REPLACE WITH SINGLE MODE FIBER OPTIC CABLES AS INDICATED ON THE CONTROL SYSTEM BLOCK DIAGRAM GN-06. INSTALL NEW FIBER OPTIC CABLES IN EXISTING CONDUIT. DRAWING INCLUDES CABLES THAT WILL NOT BE REPLACED.
 - CONDUIT ROUTING TO THE FIBER TERMINATION POINT IN THE BUILDINGS IS NOT SHOWN. FIELD INVESTIGATION WILL BE REQUIRED TO DETERMINE ROUTE.

MATCH LINE SEE DWG GE-SE-18

MATCH LINE SEE DWG GE-SE-26

BLOWER BUILDING NO. 3

GRIT HANDLING FACILITY

F-EN-610
BLOWER 3 TO HEADWORKS
F-EN-600A
600A EHOUSE TO BLOWER 3
F-EN-605B
BLOWER 2 TO BIO 5 ELECTRICAL ROOM

F-EN-600A
600A EHOUSE TO BLOWER 3
F-EN-610A
GRIT HANDLING TO BLOWER 3
F-EN-610
BLOWER 3 TO HEADWORKS
F-EN-610A
GRIT HANDLING TO BLOWER 3
F-EN-605B
BLOWER 2 TO BIO 5 ELECTRICAL ROOM

F-EN-2100
GRIT HANDLING TO BIO 5 ELECTRICAL ROOM
F-EN-610A
GRIT HANDLING TO BLOWER 3

F-EN-610A
GRIT HANDLING TO BLOWER 3
F-EN-2100
GRIT HANDLING TO BIO 5 ELECTRICAL ROOM

F-EN-605B
BLOWER 2 TO BIO 5 ELECTRICAL ROOM
F-EN-2100
GRIT HANDLING TO BIO 5 ELECTRICAL ROOM

4C-PB-1



AREA 16	AREA 17	AREA 18	AREA 19
AREA 23	AREA 24	AREA 25	AREA 26
	AREA 29	AREA 30	AREA 31
		AREA 35	AREA 36

KEY PLAN

LAST SAVED BY: evandrom

REV	DATE	BY	DESCRIPTION
1			
2			
3			

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CAC
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MARCH 2026

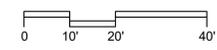


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SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
AREA 19 ELECTRICAL SITE PLAN

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-SE-19
SHEET NO.
124 OF 152



MATCH LINE SEE DWG GE-SE-16

UW FILTER BUILDING

F-EN-3300
UW FILTER TO THERMAL DRYING

- GENERAL NOTES:**
1. DEMOLISH EXISTING MULTIMODE FIBER OPTIC CABLES AND REPLACE WITH SINGLE MODE FIBER OPTIC CABLES AS INDICATED ON THE CONTROL SYSTEM BLOCK DIAGRAM GN-06. INSTALL NEW FIBER OPTIC CABLES IN EXISTING CONDUIT. DRAWING INCLUDES CABLES THAT WILL NOT BE REPLACED.
 2. CONDUIT ROUTING TO THE FIBER TERMINATION POINT IN THE BUILDINGS IS NOT SHOWN. FIELD INVESTIGATION WILL BE REQUIRED TO DETERMINE ROUTE.

MATCH LINE SEE DWG GE-SE-24

AREA 16	AREA 17	AREA 18	AREA 19
AREA 23	AREA 24	AREA 25	AREA 26
	AREA 29	AREA 30	AREA 31
		AREA 35	AREA 36

KEY PLAN

LAST SAVED BY: evandboom

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West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
AREA 23 ELECTRICAL SITE PLAN

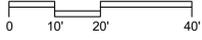
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202633

DRAWING NO.
GE-SE-23

SHEET NO.
125 OF 152



MATCH LINE SEE DWG GE-SE-17

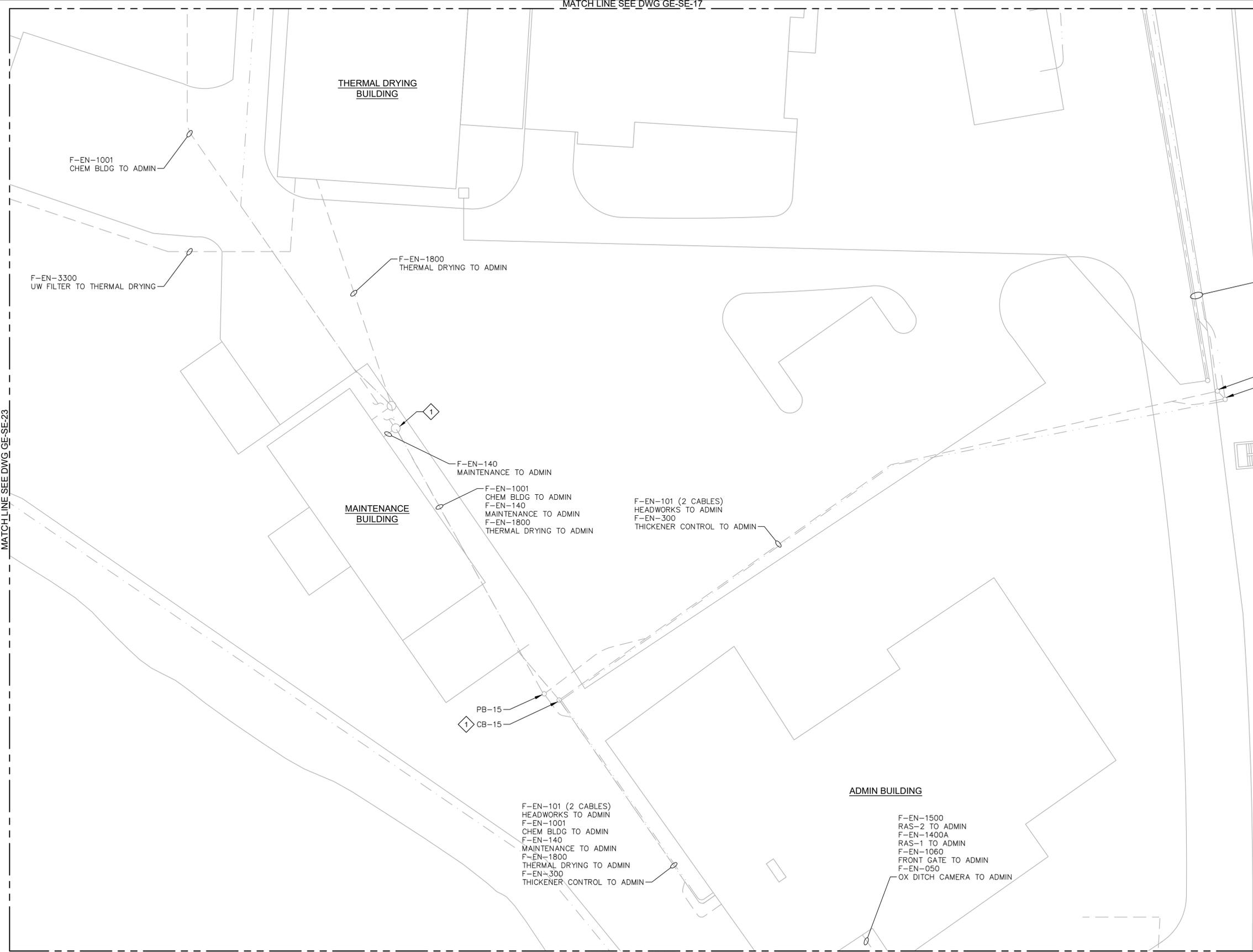
MATCH LINE SEE DWG GE-SE-23

MATCH LINE SEE DWG GE-SE-29

MATCH LINE SEE DWG GE-SE-25

- GENERAL NOTES:**
- DEMOLISH EXISTING MULTIMODE FIBER OPTIC CABLES AND REPLACE WITH SINGLE MODE FIBER OPTIC CABLES AS INDICATED ON THE CONTROL SYSTEM BLOCK DIAGRAM GN-06. INSTALL NEW FIBER OPTIC CABLES IN EXISTING CONDUIT. DRAWING INCLUDES CABLES THAT WILL NOT BE REPLACED.
 - CONDUIT ROUTING TO THE FIBER TERMINATION POINT IN THE BUILDINGS IS NOT SHOWN. FIELD INVESTIGATION WILL BE REQUIRED TO DETERMINE ROUTE.

- KEY NOTES:**
- FIBER OPTIC CABLE PULLBOX/MANHOLE.



F-EN-101 (2 CABLES)
HEADWORKS TO ADMIN
F-EN-300
THICKENER CONTROL TO ADMIN

**THERMAL DRYING
BUILDING**

**MAINTENANCE
BUILDING**

ADMIN BUILDING

F-EN-1001
CHEM BLDG TO ADMIN

F-EN-3300
UW FILTER TO THERMAL DRYING

F-EN-1800
THERMAL DRYING TO ADMIN

F-EN-140
MAINTENANCE TO ADMIN

F-EN-1001
CHEM BLDG TO ADMIN
F-EN-140
MAINTENANCE TO ADMIN
F-EN-1800
THERMAL DRYING TO ADMIN

F-EN-101 (2 CABLES)
HEADWORKS TO ADMIN
F-EN-300
THICKENER CONTROL TO ADMIN

PB-15
CB-15

F-EN-101 (2 CABLES)
HEADWORKS TO ADMIN
F-EN-1001
CHEM BLDG TO ADMIN
F-EN-140
MAINTENANCE TO ADMIN
F-EN-1800
THERMAL DRYING TO ADMIN
F-EN-300
THICKENER CONTROL TO ADMIN

F-EN-1500
RAS-2 TO ADMIN
F-EN-1400A
RAS-1 TO ADMIN
F-EN-1060
FRONT GATE TO ADMIN
F-EN-050
OX DITCH CAMERA TO ADMIN

AREA 16	AREA 17	AREA 18	AREA 19
AREA 23	AREA 24	AREA 25	AREA 26
	AREA 29	AREA 30	AREA 31
		AREA 35	AREA 36

KEY PLAN

LAST SAVED BY: evandboom

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DATE
MARCH 2026

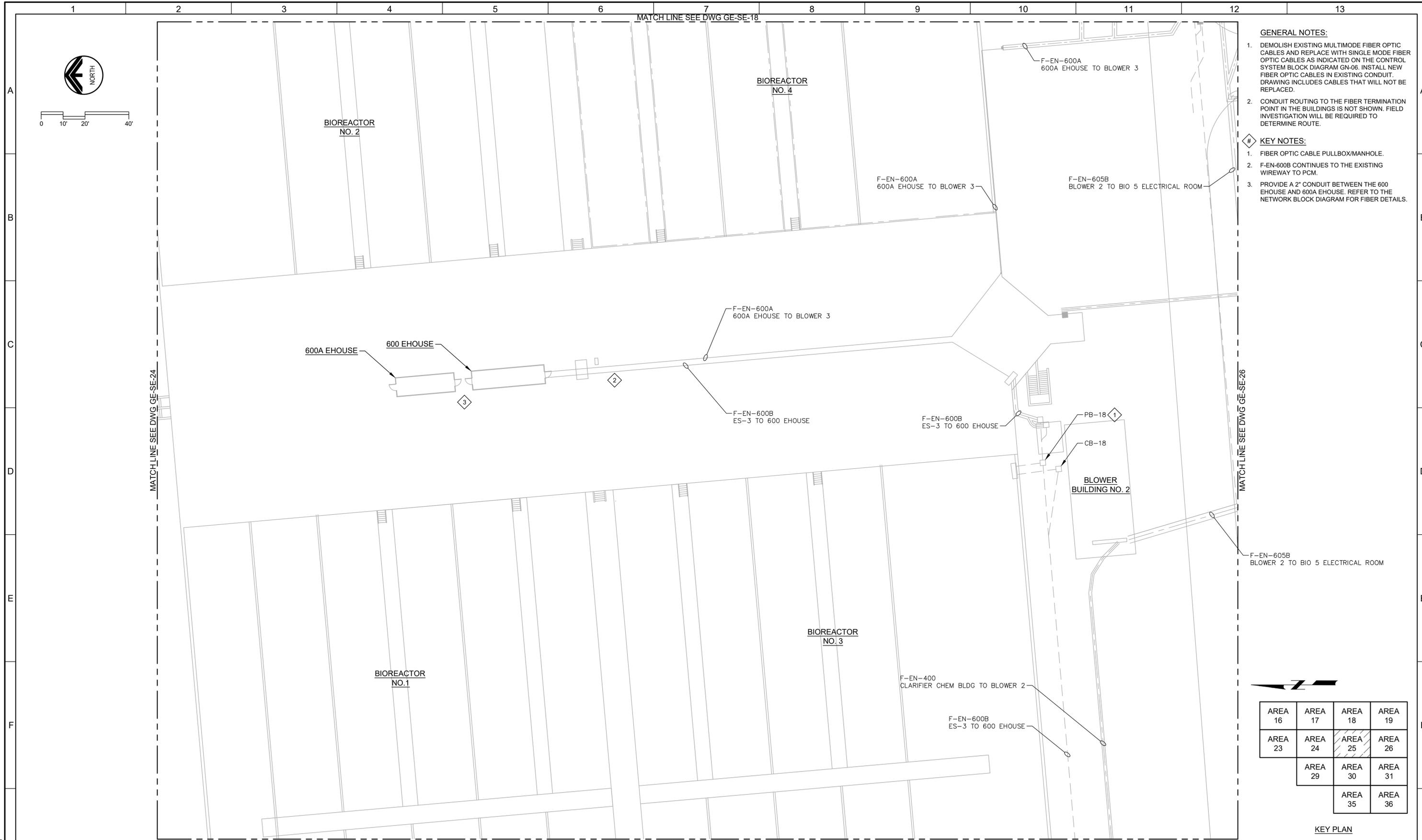


SV South Valley
WATER RECLAMATION FACILITY
7495 South 1300 West
West Jordan, Utah 84084

**SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
AREA 24 ELECTRICAL SITE PLAN**

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-SE-24
SHEET NO.
126 OF 152



- GENERAL NOTES:**
- DEMOLISH EXISTING MULTIMODE FIBER OPTIC CABLES AND REPLACE WITH SINGLE MODE FIBER OPTIC CABLES AS INDICATED ON THE CONTROL SYSTEM BLOCK DIAGRAM GN-06. INSTALL NEW FIBER OPTIC CABLES IN EXISTING CONDUIT. DRAWING INCLUDES CABLES THAT WILL NOT BE REPLACED.
 - CONDUIT ROUTING TO THE FIBER TERMINATION POINT IN THE BUILDINGS IS NOT SHOWN. FIELD INVESTIGATION WILL BE REQUIRED TO DETERMINE ROUTE.
- KEY NOTES:**
- FIBER OPTIC CABLE PULLBOX/MANHOLE.
 - F-EN-600B CONTINUES TO THE EXISTING WIREWAY TO PCM.
 - PROVIDE A 2" CONDUIT BETWEEN THE 600 EHOUSE AND 600A EHOUSE. REFER TO THE NETWORK BLOCK DIAGRAM FOR FIBER DETAILS.

KEY PLAN

AREA 16	AREA 17	AREA 18	AREA 19
AREA 23	AREA 24	AREA 25	AREA 26
	AREA 29	AREA 30	AREA 31
		AREA 35	AREA 36

LAST SAVED BY: evandboom

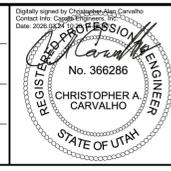
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DATE
MARCH 2026



South Valley
WATER RECLAMATION FACILITY

7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
AREA 25 ELECTRICAL SITE PLAN

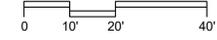
VERIFY SCALES
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0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202633

DRAWING NO.
GE-SE-25

SHEET NO.
127 OF 152



MATCH LINE SEE DWG GE-SE-19

F-EN-605B
BLOWER 2 TO BIO 5 ELECTRICAL ROOM
F-EN-2100
GRIT HANDLING TO BIO 5 ELECTRICAL ROOM

BIOREACTOR 5
ELEC ROOM

MATCH LINE SEE DWG GE-SE-25

F-EN-605B
BLOWER 2 TO BIO 5 ELECTRICAL ROOM

BIOREACTOR 5

MATCH LINE SEE DWG GE-SE-31

- GENERAL NOTES:**
- DEMOLISH EXISTING MULTIMODE FIBER OPTIC CABLES AND REPLACE WITH SINGLE MODE FIBER OPTIC CABLES AS INDICATED ON THE CONTROL SYSTEM BLOCK DIAGRAM GN-06. INSTALL NEW FIBER OPTIC CABLES IN EXISTING CONDUIT. DRAWING INCLUDES CABLES THAT WILL NOT BE REPLACED.
 - CONDUIT ROUTING TO THE FIBER TERMINATION POINT IN THE BUILDINGS IS NOT SHOWN. FIELD INVESTIGATION WILL BE REQUIRED TO DETERMINE ROUTE.

AREA 16	AREA 17	AREA 18	AREA 19
AREA 23	AREA 24	AREA 25	AREA 26
	AREA 29	AREA 30	AREA 31
		AREA 35	AREA 36

KEY PLAN

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West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
AREA 26 ELECTRICAL SITE PLAN

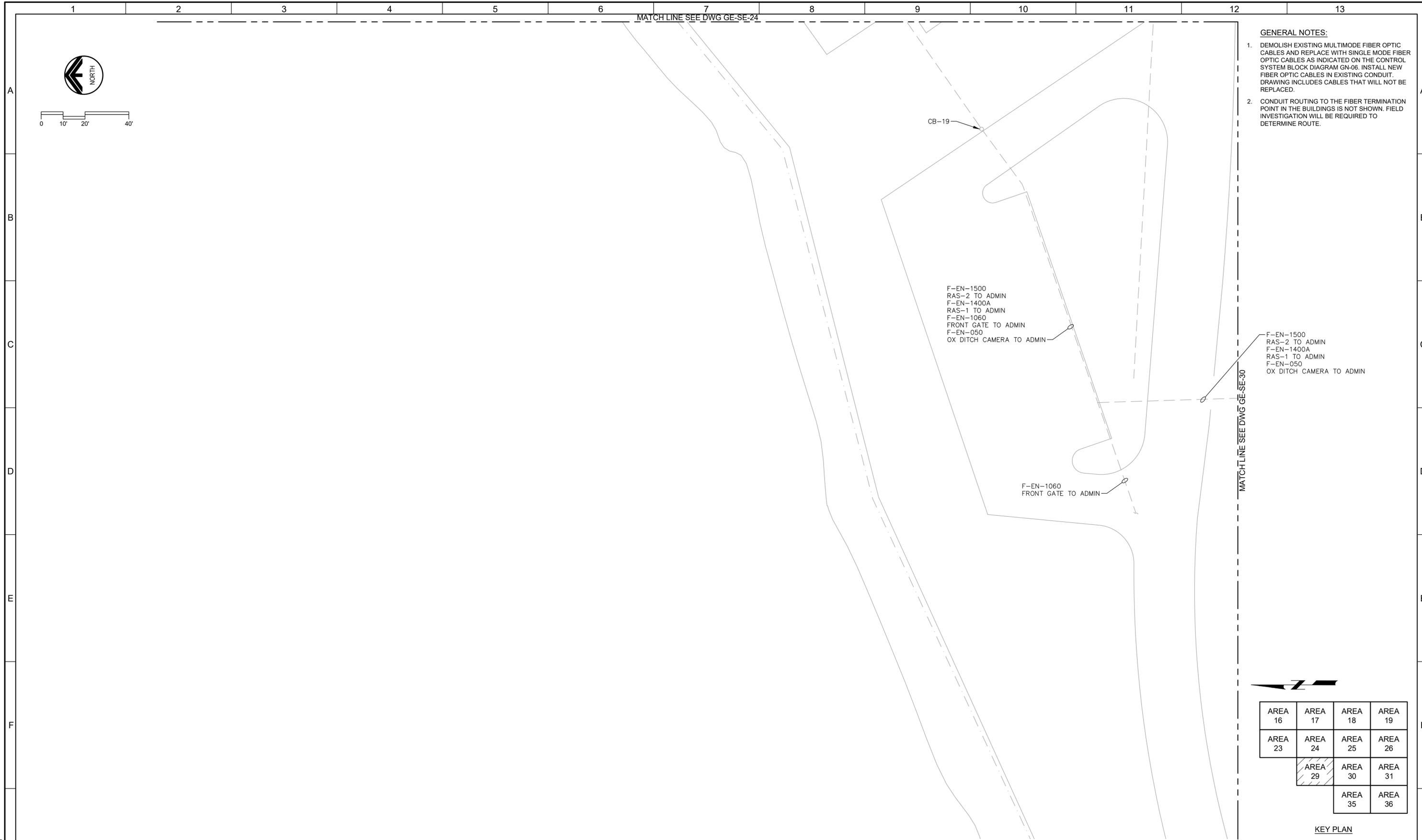
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202633

DRAWING NO.
GE-SE-26

SHEET NO.
128 OF 152



- GENERAL NOTES:**
- DEMOLISH EXISTING MULTIMODE FIBER OPTIC CABLES AND REPLACE WITH SINGLE MODE FIBER OPTIC CABLES AS INDICATED ON THE CONTROL SYSTEM BLOCK DIAGRAM GN-06. INSTALL NEW FIBER OPTIC CABLES IN EXISTING CONDUIT. DRAWING INCLUDES CABLES THAT WILL NOT BE REPLACED.
 - CONDUIT ROUTING TO THE FIBER TERMINATION POINT IN THE BUILDINGS IS NOT SHOWN. FIELD INVESTIGATION WILL BE REQUIRED TO DETERMINE ROUTE.

KEY PLAN

AREA 16	AREA 17	AREA 18	AREA 19
AREA 23	AREA 24	AREA 25	AREA 26
	AREA 29	AREA 30	AREA 31
		AREA 35	AREA 36

LAST SAVED BY: evandboom

REV	DATE	BY	DESCRIPTION

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DATE
MARCH 2026



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7495 South 1300 West
West Jordan, Utah 84084

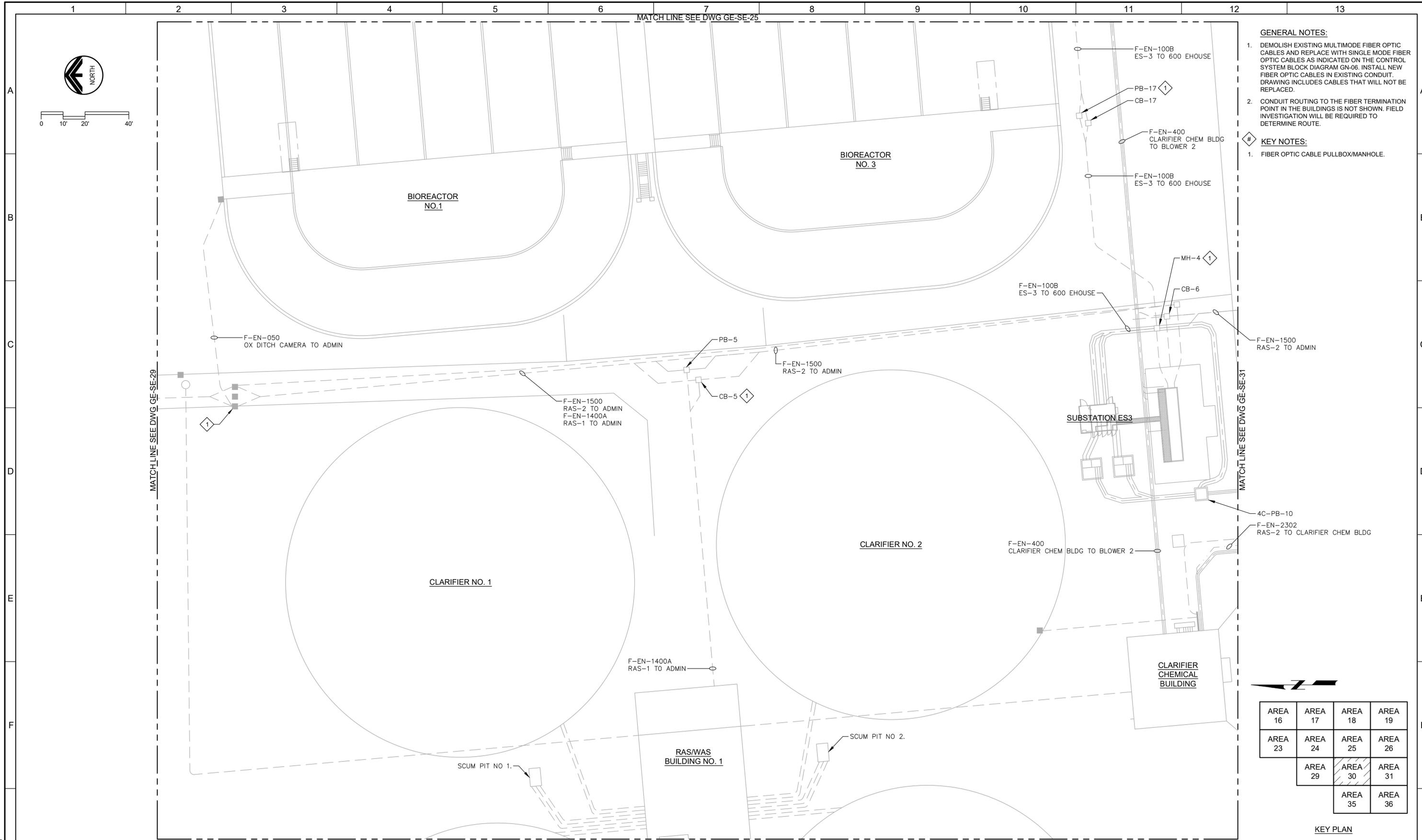
SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
AREA 29 ELECTRICAL SITE PLAN

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-SE-29

SHEET NO.
129 OF 152

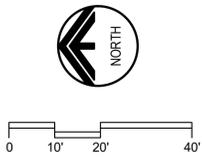


- GENERAL NOTES:**
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 - CONDUIT ROUTING TO THE FIBER TERMINATION POINT IN THE BUILDINGS IS NOT SHOWN. FIELD INVESTIGATION WILL BE REQUIRED TO DETERMINE ROUTE.

- KEY NOTES:**
- FIBER OPTIC CABLE PULLBOX/MANHOLE.

KEY PLAN

AREA 16	AREA 17	AREA 18	AREA 19
AREA 23	AREA 24	AREA 25	AREA 26
AREA 29	AREA 30	AREA 31	
	AREA 35	AREA 36	



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DATE
MARCH 2026

Digitally signed by Christopher A. Carvalho
Contact info: CAC@carollo.com
Date: 2026.03.04 09:58:05 -0500

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

MATCH LINE SEE DWG GE-SE-25

MATCH LINE SEE DWG GE-SE-35

South Valley
WATER RECLAMATION FACILITY

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West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION

MCC REPLACEMENT PROJECT

ELECTRICAL

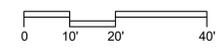
AREA 30 ELECTRICAL SITE PLAN

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-SE-30

SHEET NO.
130 OF 152



MATCH LINE SEE DWG GE-SE-26

- GENERAL NOTES:**
- DEMOLISH EXISTING MULTIMODE FIBER OPTIC CABLES AND REPLACE WITH SINGLE MODE FIBER OPTIC CABLES AS INDICATED ON THE CONTROL SYSTEM BLOCK DIAGRAM GN-06. INSTALL NEW FIBER OPTIC CABLES IN EXISTING CONDUIT. DRAWING INCLUDES CABLES THAT WILL NOT BE REPLACED.
 - CONDUIT ROUTING TO THE FIBER TERMINATION POINT IN THE BUILDINGS IS NOT SHOWN. FIELD INVESTIGATION WILL BE REQUIRED TO DETERMINE ROUTE.

- KEY NOTES:**
- 3-1" CONDUITS.
 - 4-1" CONDUITS, 1-1.5" CONDUIT.
 - 3-1" CONDUITS.

MATCH LINE SEE DWG GE-SE-30

F-EN-1500
RAS-2 TO ADMIN

CLARIFIER NO. 5

F-EN-2302
RAS-2 TO CLARIFIER CHEM BLDG

RAS/WAS
BUILDING NO. 2

SCUM PIT NO. 3.

F-EN-1500
RAS-2 TO ADMIN

F-EN-1500
RAS-2 TO ADMIN

CLARIFIER NO. 6

MATCH LINE SEE DWG GE-SE-36



AREA 16	AREA 17	AREA 18	AREA 19
AREA 23	AREA 24	AREA 25	AREA 26
	AREA 29	AREA 30	AREA 31
		AREA 35	AREA 36

LAST SAVED BY: evandboom

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West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
AREA 31 ELECTRICAL SITE PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

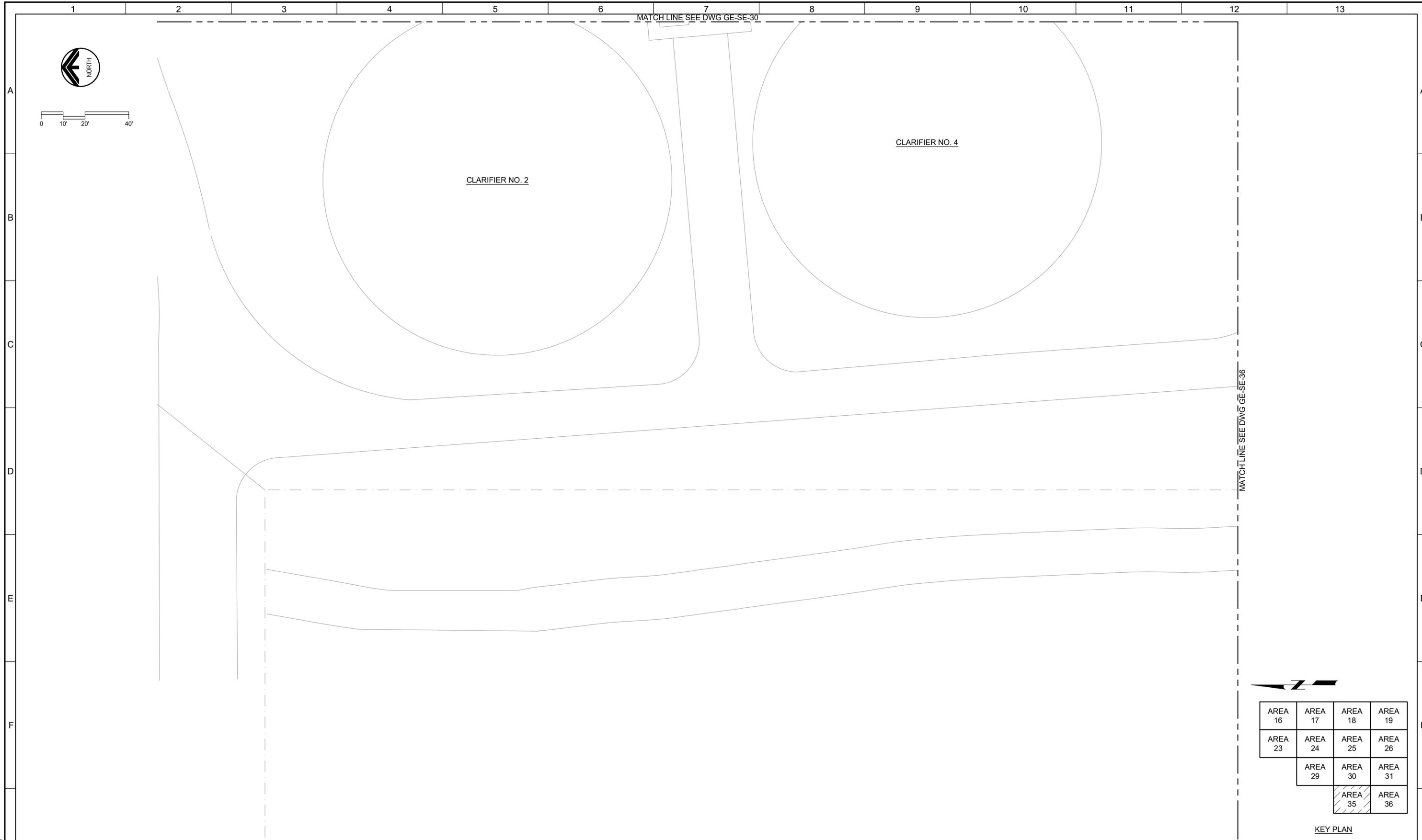
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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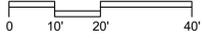
DRAWING NO.
GE-SE-31

SHEET NO.
131 OF 152



MATCH LINE SEE DWG GE-SE-30

MATCH LINE SEE DWG GE-SE-36



CLARIFIER NO. 2

CLARIFIER NO. 4

AREA 16	AREA 17	AREA 18	AREA 19
AREA 23	AREA 24	AREA 25	AREA 26
	AREA 29	AREA 30	AREA 31
		AREA 35	AREA 36

KEY PLAN

LAST SAVED BY: evandboom

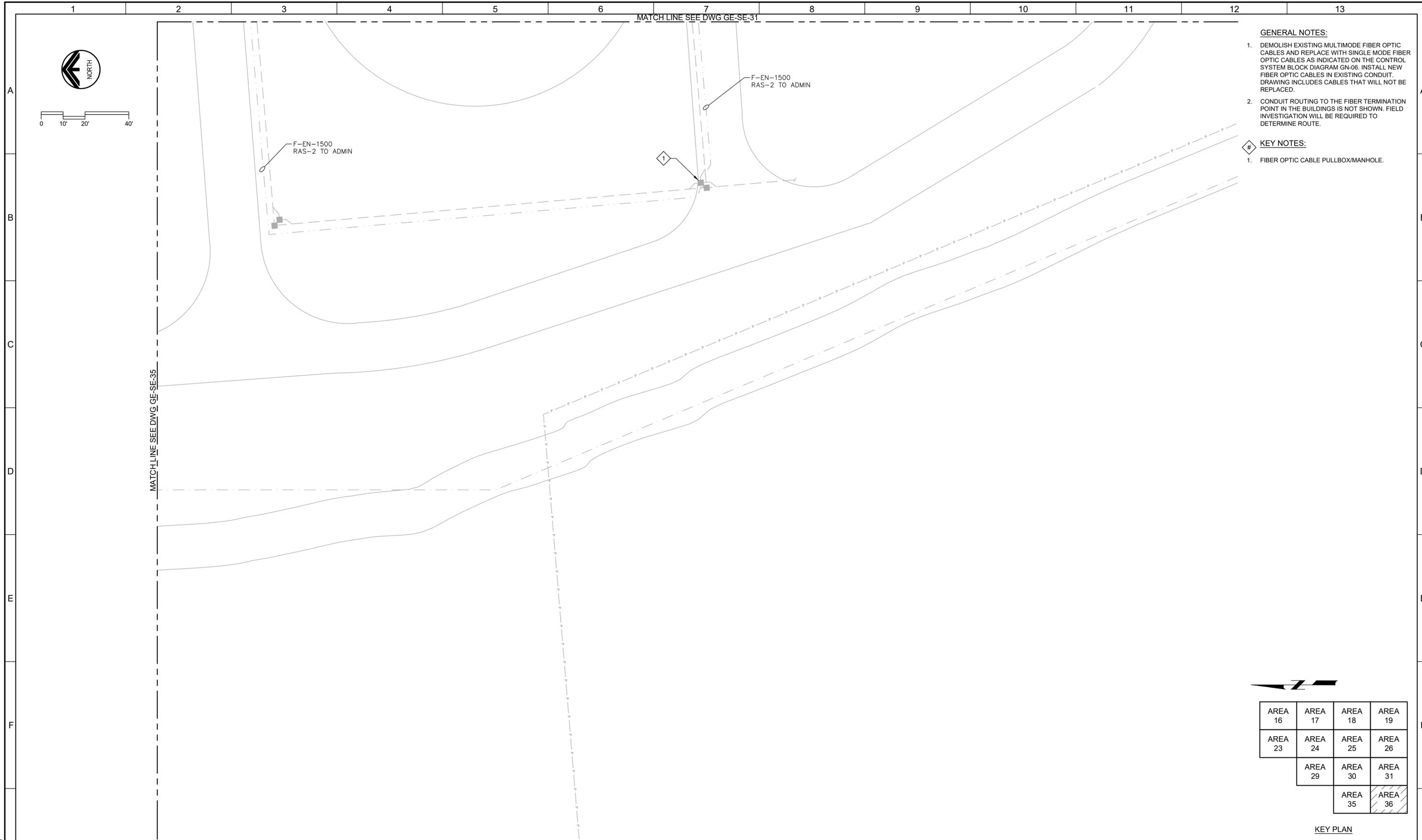
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DATE MARCH 2026



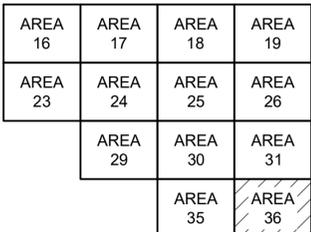
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7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION MCC REPLACEMENT PROJECT ELECTRICAL AREA 35 ELECTRICAL SITE PLAN		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202633 DRAWING NO. GE-SE-35 SHEET NO. 132 OF 152
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- GENERAL NOTES:**
- DEMOLISH EXISTING MULTIMODE FIBER OPTIC CABLES AND REPLACE WITH SINGLE MODE FIBER OPTIC CABLES AS INDICATED ON THE CONTROL SYSTEM BLOCK DIAGRAM GN-06. INSTALL NEW FIBER OPTIC CABLES IN EXISTING CONDUIT. DRAWING INCLUDES CABLES THAT WILL NOT BE REPLACED.
 - CONDUIT ROUTING TO THE FIBER TERMINATION POINT IN THE BUILDINGS IS NOT SHOWN. FIELD INVESTIGATION WILL BE REQUIRED TO DETERMINE ROUTE.

- KEY NOTES:**
- FIBER OPTIC CABLE PULLBOX/MANHOLE.



KEY PLAN

REV	DATE	BY	DESCRIPTION
1			
2			
3			

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CAC

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DATE
MARCH 2026



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

SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
AREA 36 ELECTRICAL SITE PLAN

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-SE-36

SHEET NO.
133 OF 152

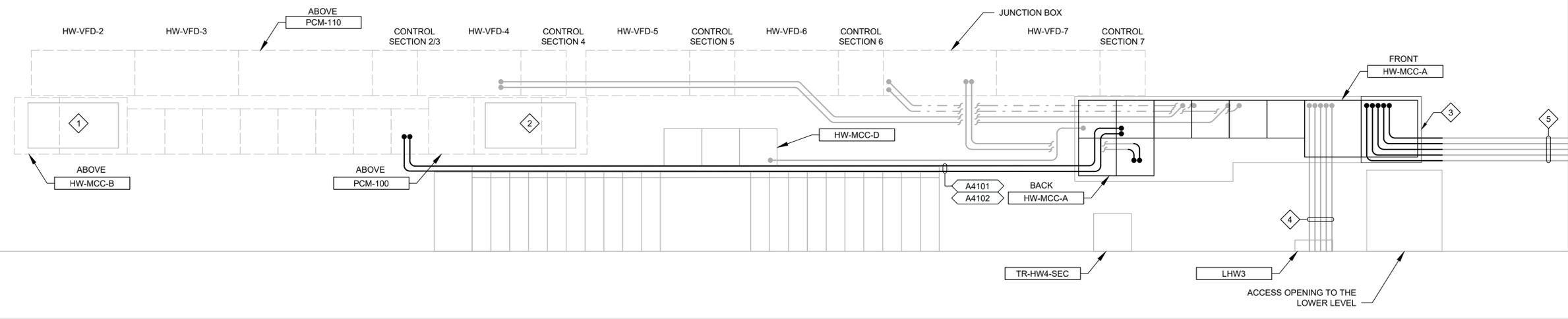
LAST SAVED BY: evandboom

GENERAL NOTES:

1. RECONNECT EXISTING GROUNDING CONNECTIONS.

KEY NOTES:

1. EXISTING JUNCTION BOX FOR NORMAL AND EMERGENCY POWER TO HW-MCC-B.
2. EXISTING JUNCTION BOX LOCATED UNDER PCM-100.
3. EXTEND THE HOUSEKEEPING PAD UNDER THE UTILITY BREAKER SECTION OF HW-MCC-A.
4. EMERGENCY POWER AND ATS CONTROL CONDUITS.
5. UTILITY POWER CONDUITS.



PLAN
 SCALE: 3/8" = 1'-0"
 FILE: 01-089-905.dwg

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 West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION MCC REPLACEMENT PROJECT ELECTRICAL	
HEADWORKS PUMP STATION EL. 74.5' CONSTRUCTION PLAN	

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. 1E-01
SHEET NO. 134 OF 152

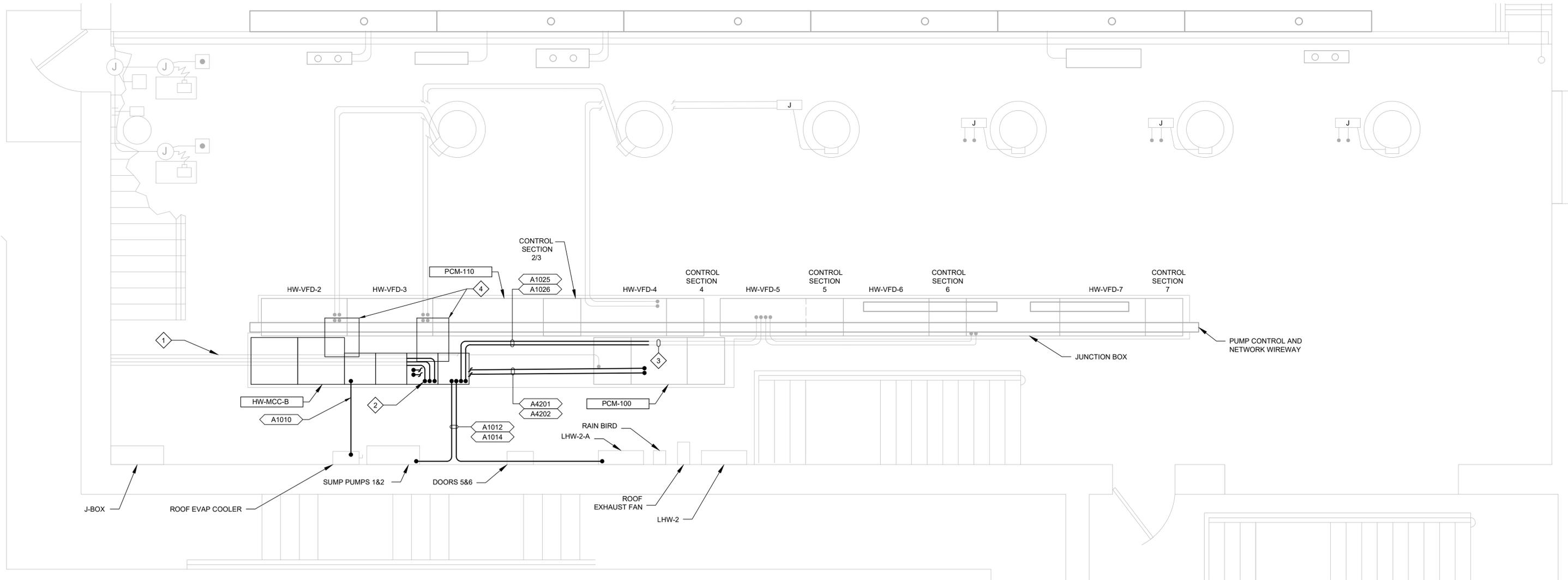


GENERAL NOTES:

1. REFER TO THE STRUCTURAL DRAWINGS FOR CONDUIT SUPPORT DETAILS.
2. PROVIDE PREFORMED CHANNEL SUPPORTS ATTACHED TO THE STRUCTURAL SUPPORT TO ENSURE THE SPACING OF CONDUIT SUPPORTS MEETS ELECTRICAL CODE REQUIREMENTS.
3. RECONNECT EXISTING GROUNDING CONNECTIONS.

KEY NOTES:

1. CONDUITS TO HW-MCC-C IN BLOWER BUILDING 1.
2. CONNECT THE CONDUITS FROM HW-MCC-C TO THE NEW SECTION OF HW-MCC-B. SHORTEN THE CABLES AS REQUIRED.
3. EXTEND THE EXISTING HW-VFD-5 CONDUITS TO THE NEW HW-MCC-B AS SHOWN.
4. PROVIDE NEW JUNCTION BOXES TO CONNECT TO HW-VFD-2 AND HW-VFD-3 TO HW-MCC-B. CONDUIT OR WIREWAY MAY BE USED INSTEAD OF A JUNCTION BOX. THE USE OF LOCOMOTIVE CABLE IS ACCEPTABLE.



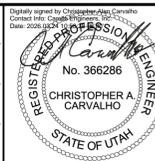
PLAN

SCALE: 3/8" = 1'-0"
FILE: 01-089-906

LAST SAVED BY: evandboom

REV	DATE	BY	DESCRIPTION
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CHECKED
DATE MARCH 2026

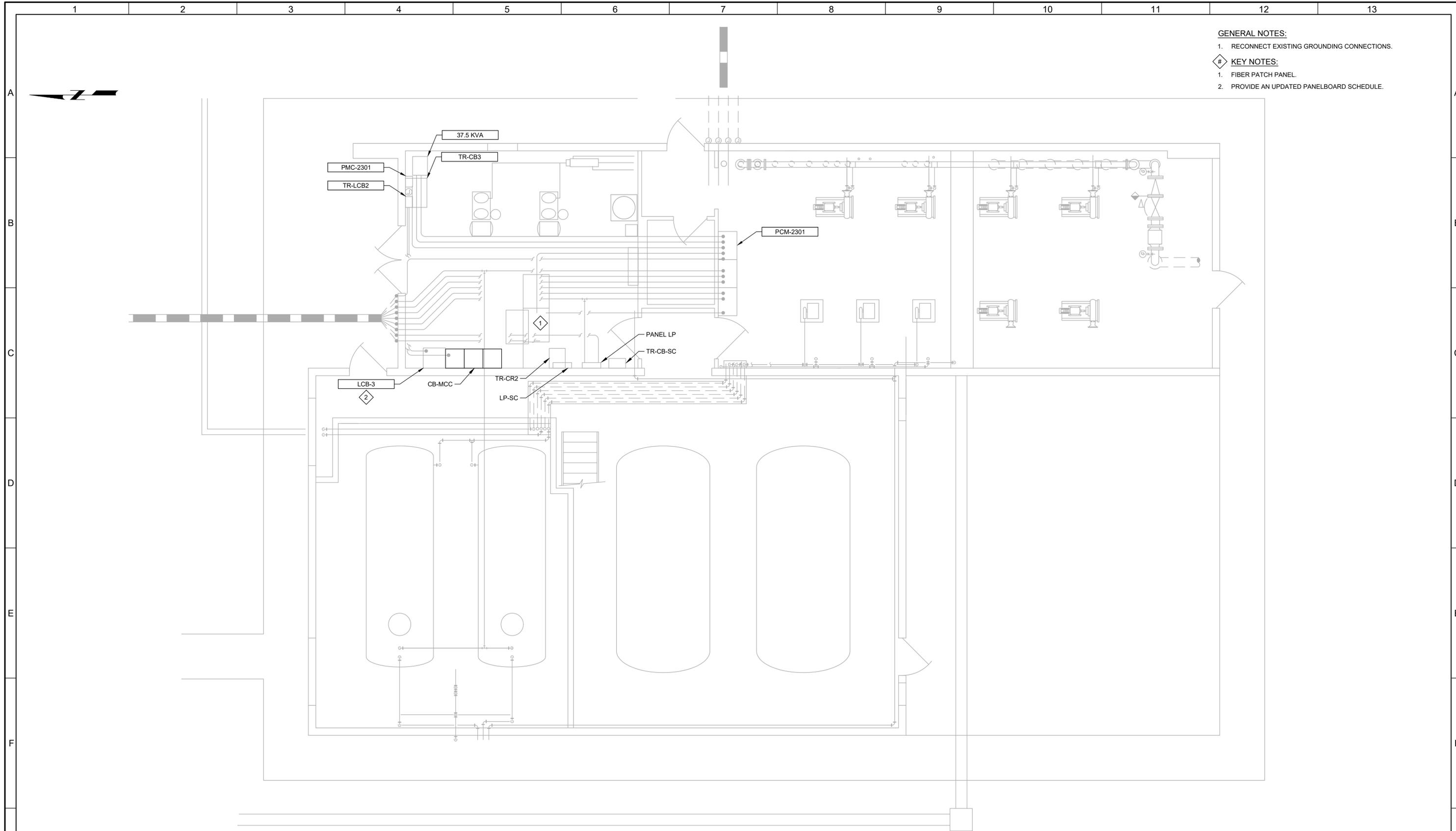


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SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
ELECTRICAL
HEADWORKS PUMP STATION EL. 87.0'
CONSTRUCTION PLAN

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. 1E-02
SHEET NO. 135 OF 152



- GENERAL NOTES:**
1. RECONNECT EXISTING GROUNDING CONNECTIONS.
- KEY NOTES:**
1. FIBER PATCH PANEL.
 2. PROVIDE AN UPDATED PANELBOARD SCHEDULE.

PLAN
 SCALE: 1/4" = 1'-0"
 FILE: 04-080-100

LAST SAVED BY: evandoom

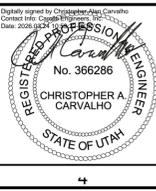
REV	DATE	BY	DESCRIPTION

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CAC

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DATE
MARCH 2026



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

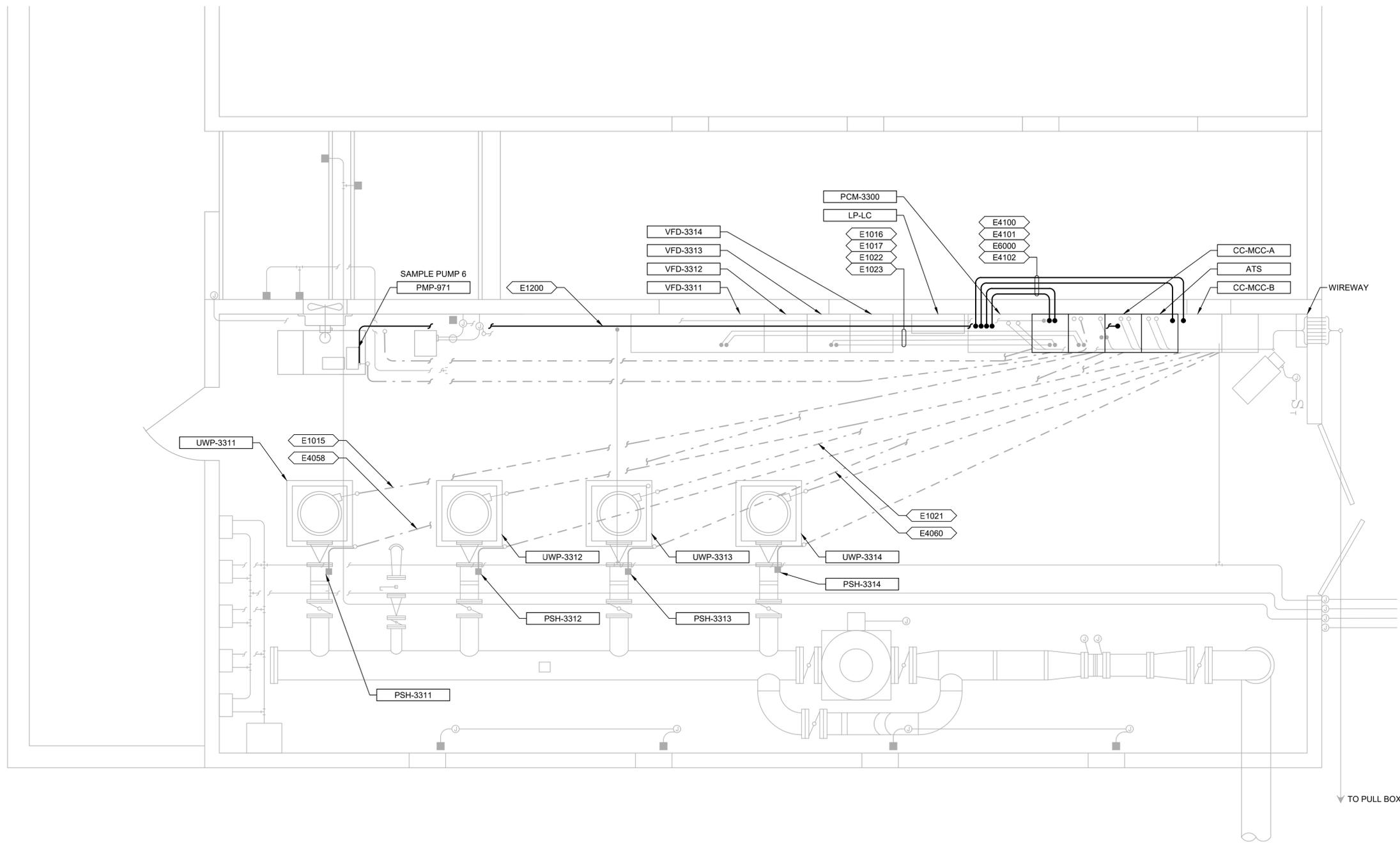


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SOUTH VALLEY WATER RECLAMATION MCC REPLACEMENT PROJECT ELECTRICAL CHEMICAL BUILDING CONSTRUCTION PLAN		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 202633 DRAWING NO. 4E-01 SHEET NO. 136 OF 152
		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	



- GENERAL NOTES:**
1. EXPOSED CONDUITS OFFSET FOR DRAWING CLARITY.
 2. RECONNECT EXISTING GROUNDING CONNECTIONS.



PLAN
 SCALE: 3/8" = 1'-0"
 FILE: 6DE-01.dwg

LAST SAVED BY: evandboom

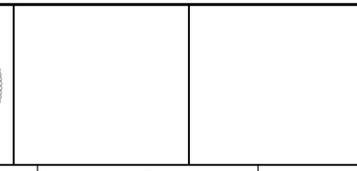
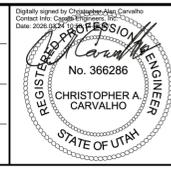
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CAC

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DATE
MARCH 2026



South Valley
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SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
 ELECTRICAL

UTILITY WATER PUMPING STATION
CONSTRUCTION PLAN

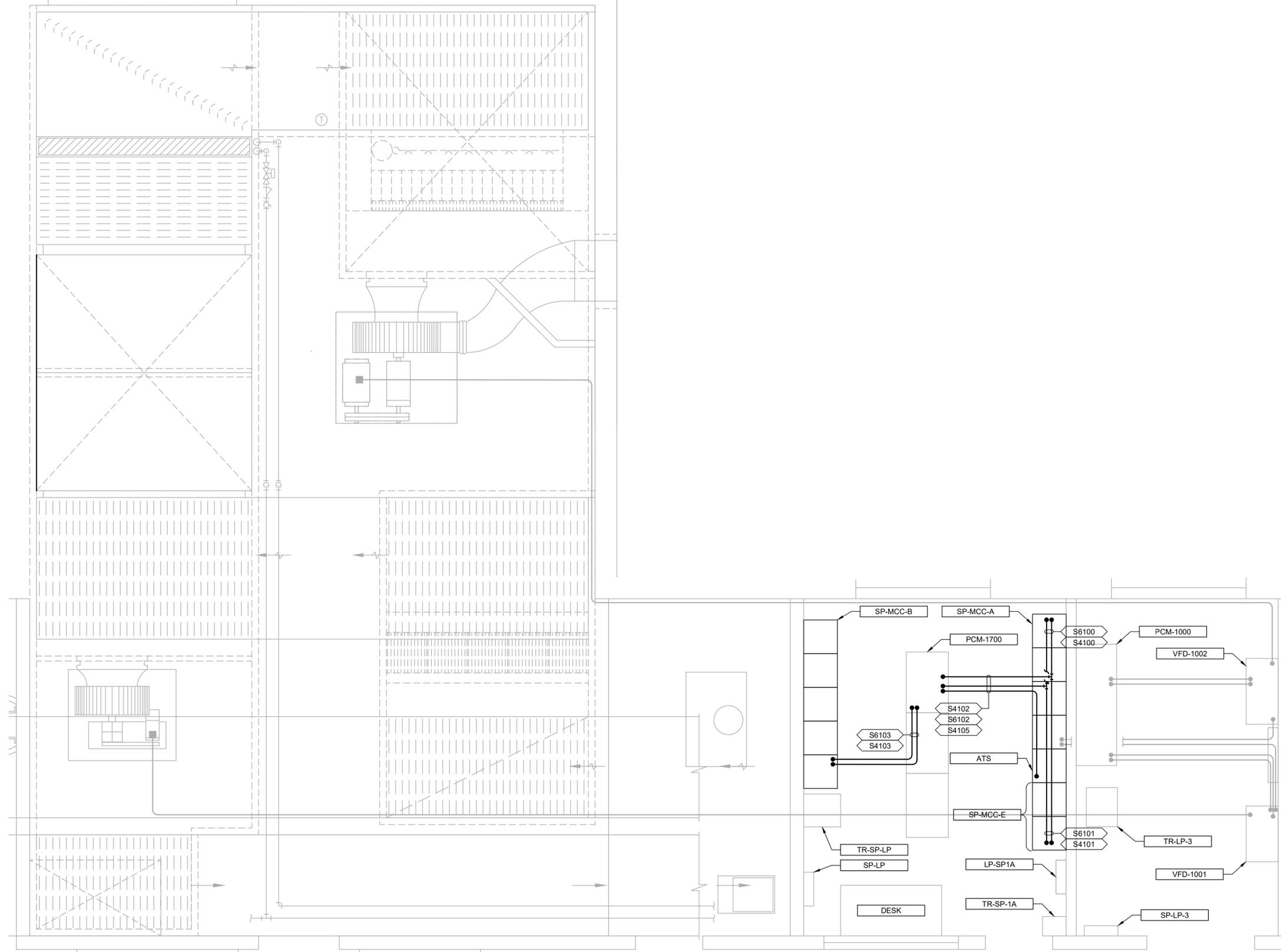
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202633

DRAWING NO.
6E-01

SHEET NO.
137 OF 152

GENERAL NOTES:
 1. RECONNECT EXISTING GROUNDING CONNECTIONS.



PLAN
 SCALE: 3/8" = 1'-0"
 FILE: 10-080-103

LAST SAVED BY: evandboom

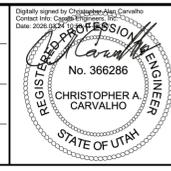
REV	DATE	BY	DESCRIPTION

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CAC

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TLM

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DATE
MARCH 2026



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 West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
 ELECTRICAL
SOLIDS PROCESS BLDG UPPER DETAIL
CONSTRUCTION PLAN

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

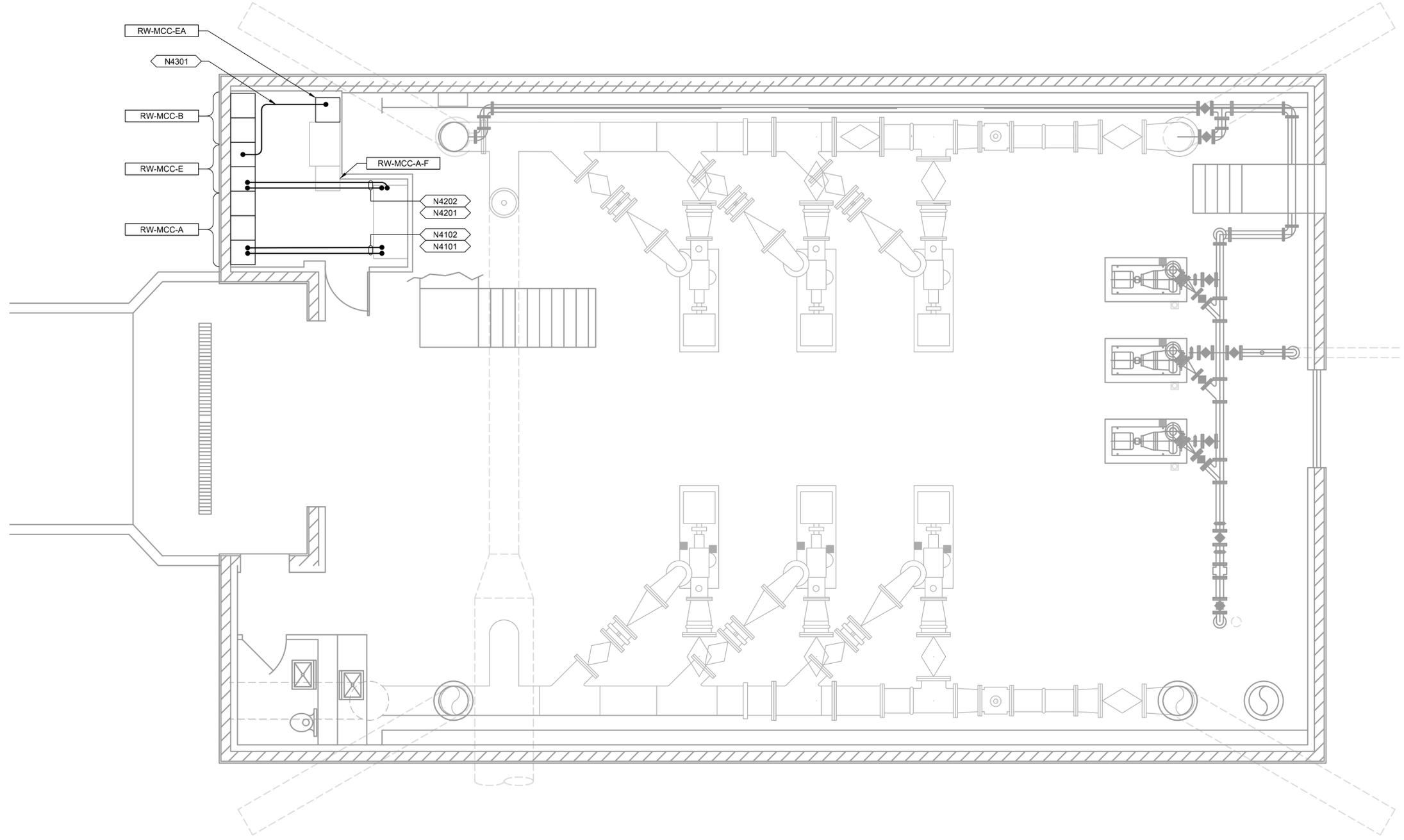
JOB NO.
202633

DRAWING NO.
10E-01

SHEET NO.
138 OF 152



GENERAL NOTES:
 1. RECONNECT EXISTING GROUNDING CONNECTIONS.

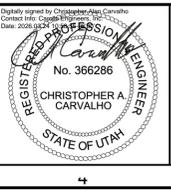


PLAN
 SCALE: 1/4" = 1'-0"
 FILE: 07-080-101.dwg

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DATE MARCH 2026



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 WATER RECLAMATION FACILITY
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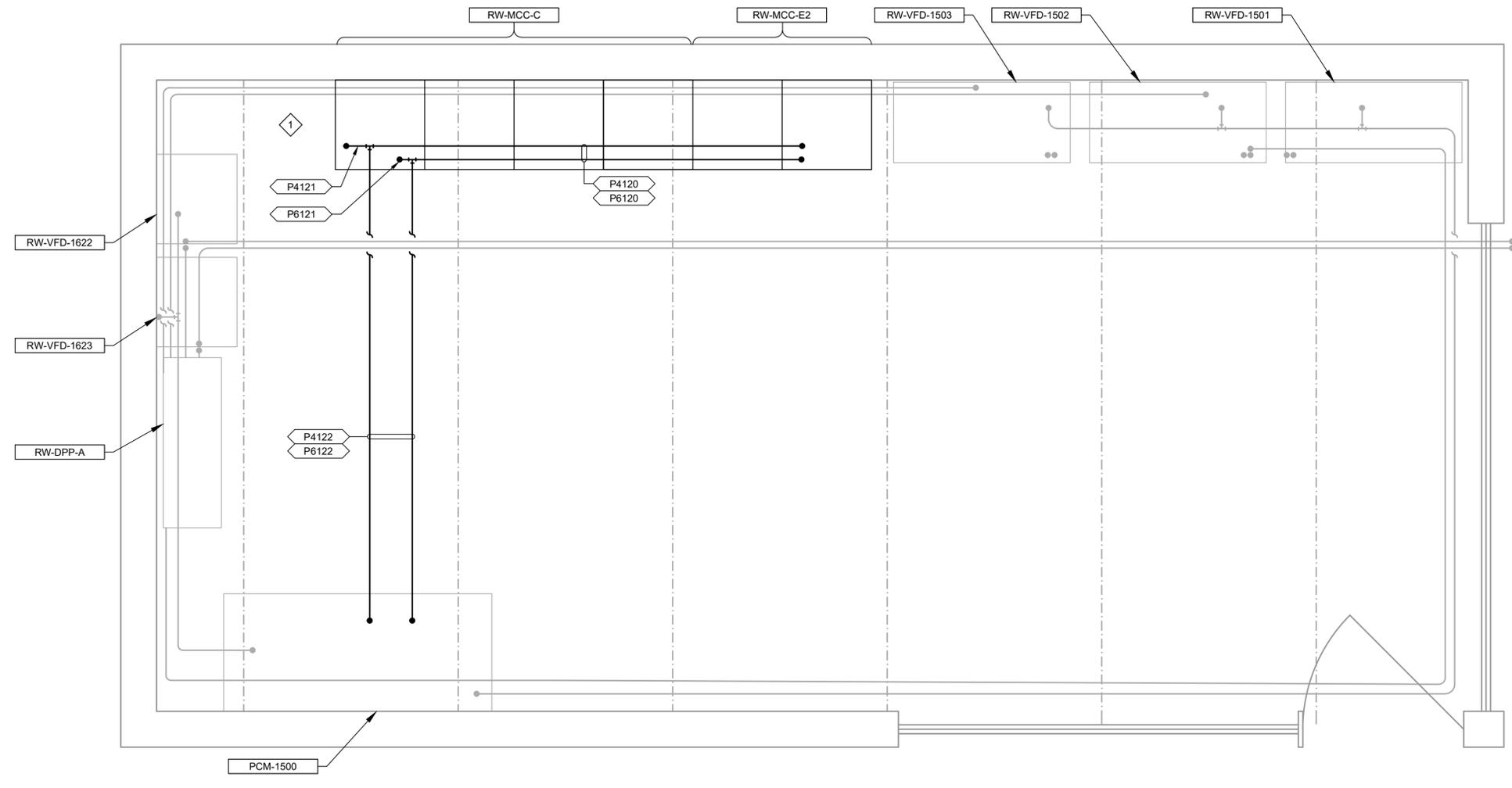
SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
 ELECTRICAL
RAS/WAS BUILDING #1 LOWER LEVEL
CONSTRUCTION PLAN

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.
14E-02
 SHEET NO.
139 OF 152



- GENERAL NOTES:**
1. RECONNECT EXISTING GROUNDING CONNECTIONS.
- KEY NOTES:**
1. CAP THE CONDUITS LEFT EXPOSED BY THE DEMOLITION OF THE EXISTING RW-MCC-C SECTION 1.



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

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 7495 South 1300 West
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SOUTH VALLEY WATER RECLAMATION
 MCC REPLACEMENT PROJECT
 ELECTRICAL
**RAS/WAS BUILDING #2 UPPER LEVEL
 CONSTRUCTION PLAN**

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.
17E-01

SHEET NO.
140 OF 152

SYMBOL	DRAWING VISIBLE FIELDS	FIELD - 1	FIELD - 2	FIELD - 3	FIELD - 4	FIELD - 5	FIELD - 6	FIELD - 7	FIELD - 8
HMI/SCADA SYSTEM OPERATOR INTERFACE TERMINAL		1 - TAG111 2 - LOOP NUMBER 3 - FUNCTION 4 - DESCRIPTION 5 - DESCRIPTION 6 - EXISTING/FUTURE	REFER	REFER	ACTION ALARM SP - NUMERIC STATUS - SET POINT TREND	DESCRIPTION	DESCRIPTION	E - EXISTING F - FUTURE	
HARDWIRED I/O POINT		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - DESCRIPTION 5 - LOCATION 6 - EXISTING/FUTURE 7 - IO TABLE	REFER	REFER	AI - ANALOG INPUT AO - ANALOG OUTPUT DI - DISCRETE INPUT DO - DISCRETE OUTPUT RTD - RTD INPUT	DESCRIPTION	PAC - PROGRAMMABLE AUTOMATION CONTROLLER NO. PLC - PROGRAMMABLE LOGIC CONTROLLER NO. RIO - REMOTE I/O VCP - VENDOR CONTROL PANEL NO.	E - EXISTING F - FUTURE	
NETWORK / SOFT I/O		1 - TAG 2 - LOOP NUMBER 3 - PROTOCOL 4 - PANEL 5 - PLC 6 - EXISTING/FUTURE 7 - IO TABLE 8 - SWITCH/SEGMENT	REFER	REFER	COMMUNICATION PROTOCOL CNET - CONTROLNET DNET - DEVICENET EIP - ETHERNET/IP FF - FOUNDATION FIELDBUS HART-IP - HART OVER ETHERNET MANF - MFR. PROPRIETARY MBRTU - MODBUS RTU MB+ - MODBUS PLUS MBTCP - MODBUS TCP DP - PROFIBUS DP PA - PROFIBUS PA PNET - PROFINET SNMP - SNMPv3 HTTP - WEB SERVER (TCP/IP)	DESCRIPTION	PAC - PROGRAMMABLE AUTOMATION CONTROLLER NO. PLC - PROGRAMMABLE LOGIC CONTROLLER NO. RIO - REMOTE I/O VCP - VENDOR CONTROL PANEL NO.	E - EXISTING F - FUTURE	
LOCAL OPERATOR INTERFACE		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - DESCRIPTION 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	ACTION ALARM SP - NUMERIC STATUS - SET POINT TREND	DESCRIPTION	LOI - LOCAL OPERATOR INTERFACE NO. LCP - LOCAL CONTROL PANEL NO. PCM - PROCESS CONTROL MODULE NO. VCP - VENDOR CONTROL PANEL NO.	E - EXISTING F - FUTURE	
PILOT DEVICE OPERATOR INTERFACE		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - DESCRIPTION 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	AM - AUTO/MANUAL BYPASS ESD - EQUIPMENT SHUTDOWN HOA - HAND/OFF/AUTO LOR - LOCAL/OFF/REMOTE LOS - LOCK OUT STOP LS - LEAD/STANDBY LSR - LOCAL/STOP/REMOTE OC - OPEN/CLOSE OO - OFF/ON OSC - OPEN/STOP/CLOSE RST - RESET SEL - SELECT SPD - SPEED SS - START/STOP ST - STOP	DESCRIPTION	LCP - LOCAL CONTROL PANEL NO. MCC - MOTOR CONTROL CENTER NO. PCM - PROCESS CONTROL MODULE NO. VCP - VENDOR CONTROL PANEL NO. VFD - VARIABLE FREQUENCY DRIVE NO.	E - EXISTING F - FUTURE	
POWER DEVICE PRIMARY FUNCTION OPERATOR ACCESSIBLE		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - VOLTAGE-POLE 5 - LOCATION 6 - EXISTING/FUTURE	CB - CIRCUIT BREAKER DISC - DISCONNECT FU - FUSE	REFER	TM - THERMAL MAGNETIC CIRCUIT BREAKER	DESCRIPTION	DP - DISTRIBUTION PANEL NO. LCP - LOCAL CONTROL PANEL NO. LP - LIGHTING PANEL NO. MCC - MOTOR CONTROL CENTER NO. PCM - PROCESS CONTROL MODULE NO. PP - POWER PANEL NO. VCP - VENDOR CONTROL PANEL NO.	E - EXISTING F - FUTURE	
POWER DEVICE AUXILIARY FUNCTION OPERATOR ACCESSIBLE		1 - TAG 2 - LOOP NUMBER 3 - DESCRIPTION 4 - DESCRIPTION 5 - DESCRIPTION 6 - EXISTING/FUTURE	DISC - DISCONNECT	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	E - EXISTING F - FUTURE	
POWER DEVICE PRIMARY FUNCTION OPERATOR INACCESSIBLE		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - VOLTAGE-POLE 5 - LOCATION 6 - EXISTING/FUTURE	CB - CIRCUIT BREAKER FU - FUSE	REFER	MCP - MOTOR CIRCUIT PROTECTOR SS - SOLID STATE CIRCUIT BREAKER TM - THERMAL MAGNETIC CIRCUIT BREAKER	DESCRIPTION	DP - DISTRIBUTION PANEL NO. LCP - LOCAL CONTROL PANEL NO. LP - LIGHTING PANEL NO. MCC - MOTOR CONTROL CENTER NO. PCM - PROCESS CONTROL MODULE NO. PP - POWER PANEL NO. VCP - VENDOR CONTROL PANEL NO.	E - EXISTING F - FUTURE	
FIELD EQUIPMENT STARTER / DRIVE CUBICLE / CABINET		1 - TAG 2 - LOOP NUMBER 3 - TYPE 4 - VOLTAGE-POLE 5 - POWER SOURCE 6 - EXISTING/FUTURE	MS - MOTOR STARTER RVAT - REDUCED VOLTAGE AUTO TRANSFORMER STARTER RVSS - REDUCED VOLTAGE SOLID STATE STARTER VFD - VARIABLE FREQUENCY DRIVE	REFER	FVNR - FULL VOLTAGE NON-REVERSING STARTER FVR - FULL VOLTAGE REVERSING STARTER PWS - PART-WINDING STARTER RVAT - REDUCED VOLTAGE AUTO TRANSFORMER STARTER RVSS - REDUCED VOLTAGE SOLID STATE STARTER TS1W - TWO SPEED SINGLE WINDING TS2W - TWO SPEED TWO WINDINGS VFD - VARIABLE FREQUENCY DRIVE	DESCRIPTION	LCP - LOCAL CONTROL PANEL NO. MCC - MOTOR CONTROL CENTER NO. PCM - PROCESS CONTROL MODULE NO. VCP - VENDOR CONTROL PANEL NO.	E - EXISTING F - FUTURE	

SYMBOL	DRAWING VISIBLE FIELDS	FIELD - 1	FIELD - 2	FIELD - 3	FIELD - 4	FIELD - 5	FIELD - 6	FIELD - 7	FIELD - 8
INSTRUMENT PRIMARY ELEMENT		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	AREA NO. BUILDING NO. ROOM NO.	E - EXISTING F - FUTURE	
INSTRUMENT/CONTROL ELEMENT PRIMARY FUNCTION OPERATOR ACCESSIBLE		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION INT - INTEGRAL REM - REMOTE	E - EXISTING F - FUTURE	OUT - OUTDOOR
INSTRUMENT/CONTROL ELEMENT AUXILIARY FUNCTION OPERATOR ACCESSIBLE		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	E - EXISTING F - FUTURE	
INSTRUMENT/CONTROL ELEMENT PRIMARY FUNCTION OPERATOR INACCESSIBLE		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION XR - PROTECTION RELAY CR - CONTROL RELAY XR - INTERPOSING RELAY	E - EXISTING F - FUTURE	
INSTRUMENT/CONTROL ELEMENT AUXILIARY FUNCTION OPERATOR INACCESSIBLE		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	E - EXISTING F - FUTURE	
FIELD EQUIPMENT NON-POWERED		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION/SIZE 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	AREA NO. BUILDING NO. ROOM NO.	E - EXISTING F - FUTURE	
FIELD EQUIPMENT POWERED		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	REFER	REFER	DESCRIPTION	DESCRIPTION	AREA NO. BUILDING NO. ROOM NO.	E - EXISTING F - FUTURE	
FIELD EQUIPMENT AUXILIARY FUNCTION OPERATOR ACCESSIBLE		1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - EXISTING/FUTURE	MWH - MOTOR WINDING HEATER SWITCH TSH - TEMPERATURE SWITCH XSH - TORQUE SWITCH	REFER	DESCRIPTION	DESCRIPTION	DESCRIPTION	E - EXISTING F - FUTURE	

INSTRUMENT BUBBLE LOCATIONS		NOTES
PCS		<ul style="list-style-type: none"> 1 INSTRUMENT TAG IDENTIFICATION LETTERS TABLE 2 OPERATOR PILOT DEVICE LEGEND 3 EQUIPMENT TAGGING TABLE 4 I/O TYPE DESIGNATIONS 5 INSTRUMENT TYPE DESIGNATIONS TABLE 6 FURNISHED BY: <ul style="list-style-type: none"> FBO FURNISHED BY OWNER FBV FURNISHED BY VENDOR 7 PROVIDED BY: <ul style="list-style-type: none"> PBO PROVIDED BY OWNER PBV PROVIDED BY VENDOR
I/O		
OPERATOR INTERFACE CONTROL DEVICES		
POWER SOURCE		
FIELD		

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CHECKED	
DATE MARCH 2026	

<p>SOUTH VALLEY WATER RECLAMATION</p> <p>MCC REPLACEMENT PROJECT</p> <p>INSTRUMENTATION</p> <p>SYMBOLS AND ABBREVIATIONS 1</p>	<p>VERIFY SCALES</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING</p> <p>0 1"</p> <p>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</p>
	<p>JOB NO. 202633</p> <p>DRAWING NO. GN-01</p> <p>SHEET NO. 141 OF 152</p>

	FLOW		FLUMES		GATES		LEVELS		NETWORKS							
	CORIOLIS MAGNETIC ORIFICE PADDLE WHEEL PISTON ANNUBAR PITOT TUBE POSITIVE-DISPLACEMENT PROPELLER-TURBINE		ROTAMETER SHUTTLE THERMAL ULTRASONIC ULTRASONIC BIOGAS V-CONE VENTURI TUBE OR FLOW NOZZLE VORTEX		LEOPOLD-LAGCO PALMER-BOWLUS PARSHALL REGULAR CUTTHROAT TRAPEZOIDAL		SIDE VIEW PLAN VIEW FLAP KNIFE SLIDE SLUICE STOP STOP WEIR BUTTERFLY		BUBBLER CAPACITANCE TANK DIFFERENTIAL PRESSURE DISPLACEMENT ELECTRODE BALL FLOAT INVERTED COLUMN PROBE		RADAR PTOF RADAR (FREQUENCY MODULATED CONTINUOUS WAVE) RADAR TDR SUSPENDED/SUBMERSIBLE TUNING FORK ULTRASONIC		CABLE CALLOUTS AND ABBREVIATIONS FIBER ABBREVIATIONS FIBER LINE REPRESENTS ONE 24-STRAND FIBER OPTIC CABLE FIBER LINE REPRESENTS TWO 24-STRAND FIBER OPTIC CABLES EACH FIBER LINE REPRESENTS ONE 24-STRAND FIBER OPTIC CABLE COPPER LINE REPRESENTS FOUR COPPER ETHERNET CABLES EACH COPPER LINE REPRESENTS TWO COPPER ETHERNET CABLES NETWORK ABBREVIATIONS VLAN SYMBOLS			
	PRESSURE/VACUUM		TEMPERATURE		WEIRS		NETWORK LINE SYMBOLS									
	PRESSURE DIFFERENTIAL PRESSURE PRESSURE SEALS		TEMPERATURE w/THERMOWELL TEMPERATURE GAUGE THERMOMETER		SIDE VIEW PLAN VIEW RECTANGULAR w/o END CONTRACTIONS RECTANGULAR w/ END CONTRACTIONS V-NOTCH (TRIANGULAR) TRAPEZOIDAL (CIPOLLETTI)		COPPER ETHERNET DUPLIX FIBER PATCH FIBER OPTIC ETHERNET WIRELESS PROFIBUS DP PROFIBUS PA SERIAL DATA									
	WEIGHT PLATFORM SCALE		EXAMPLE PRESSURE SWITCH				MISCELLANEOUS NETWORK SYMBOLS NETWORK CABLE CONTINUATIONS FIELD NETWORK DEVICE NETWORK EQUIPMENT CALLOUT									
	GAUGE PRESSURE SWITCH PRESSURE TRANSMITTER MANOMETER		GAUGE DIFFERENTIAL INDICATOR DIFFERENTIAL PRESSURE SWITCH DIFFERENTIAL PRESSURE TRANSMITTER				TOP OF PAGE STYLE CONTINUATION BOTTOM/LEFT OF PAGE STYLE CONTINUATION PLC TAG TAG TAG									

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DATE	MARCH 2026
REV	DATE
BY	DESCRIPTION

Digitally signed by Matthew G. Hatch
 Contact info: CarolloEngineering.com
 Date: 2026.03.09 10:52:23 -0700



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

SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
 INSTRUMENTATION
SYMBOLS AND ABBREVIATIONS 4

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. **GN-04**
 SHEET NO. 144 OF 152

	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	
		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	
B		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	
		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	
C		TEMPERATURE SWITCH CLOSE ON RISING TEMPERATURE		MUSHROOM HEAD PUSHBUTTON				TERMINAL IN RTU		TRANSIENT SURGE PROTECTION		MOTOR - 1 PHASE	
		TEMPERATURE SWITCH OPEN ON RISING TEMPERATURE		PUSH-PULL PUSHBUTTON MAINTAINED CONTACT				TERMINAL IN FIELD PANEL		MW-H* MOTOR WINDING HEATER * - MOTOR TAG I.D.		MOTOR - 3 PHASE	
D		FLOW SWITCH CLOSE ON INCREASE IN FLOW		PADLOCK SWITCH x - DENOTES POSITION CONTACTS CLOSED IN				TERMINAL IN (USER CHOICE)		VARISTOR		SPEED SWITCH	
		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		CAPACITOR		RESISTOR	
E		VIBRATION SWITCH OPEN ON RISING VIBRATION		STOP-LOCKOUT PUSHBUTTON				PLC DISCRETE a = INPUT OR OUTPUT AS INDICATED		BATTERY		DIODE	
		VIBRATION SWITCH CLOSE ON RISING VIBRATION		SPRING-RETURN x - DENOTES POSITION CONTACTS CLOSED IN				PLC ANALOG a = INPUT OR OUTPUT AS INDICATED		MOTOR OVERLOAD HEATERS		OVERLOAD CONTACT	
F		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		DIGITAL BUS		DRAWOUT CONNECTION		GROUND	
		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		CONTROL POWER TRANSFORMER		LIGHTNING ARRESTOR		ETM ELAPSED TIME METER	
G		NORMALLY CLOSED LIMIT SWITCH		NORMALLY CLOSED HELD OPEN LIMIT SWITCH		NORMALLY OPEN LIMIT SWITCH		NORMALLY OPEN HELD CLOSED LIMIT SWITCH				RTD	

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DATE	MARCH 2026

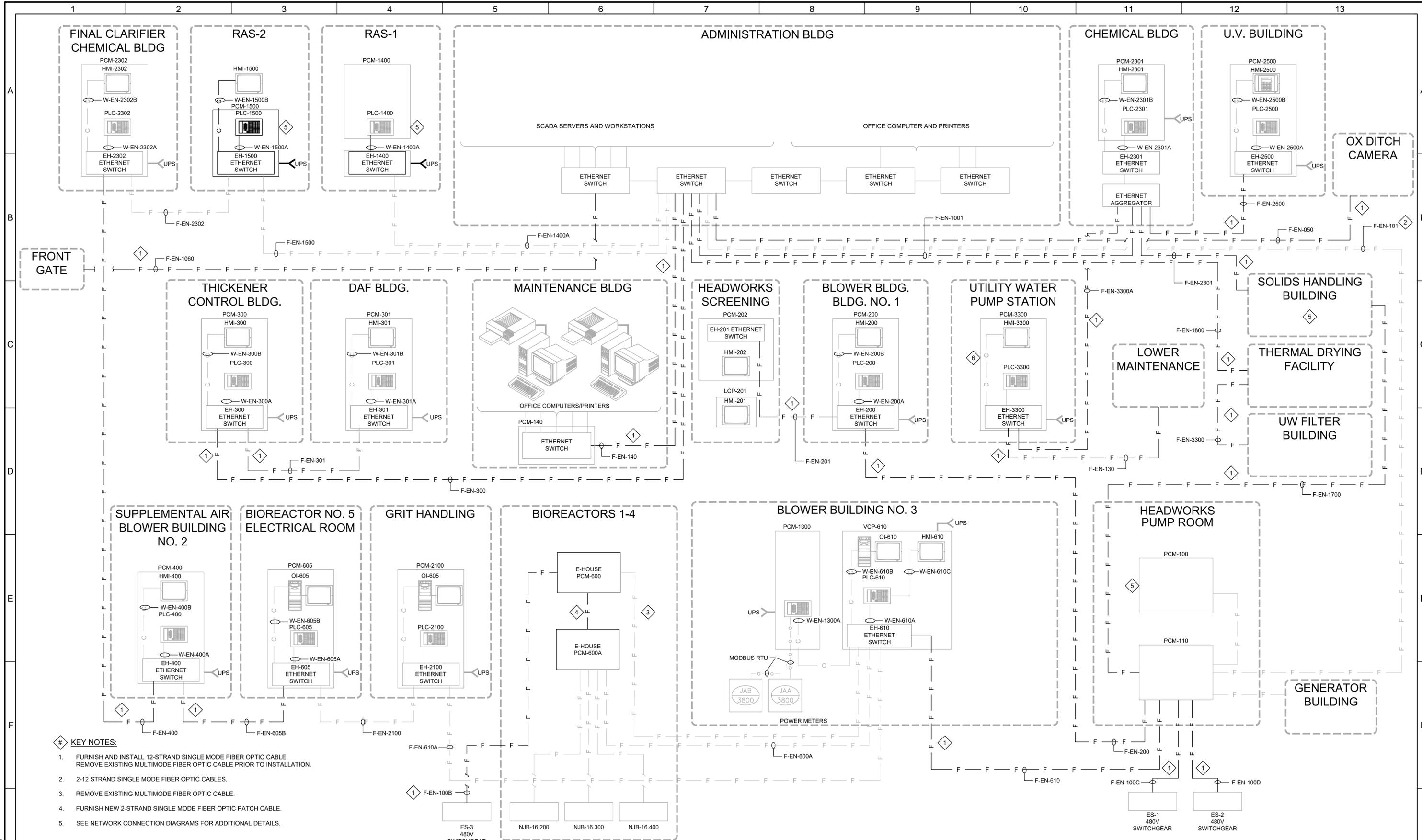
Digitally signed by Matthew G. Hatch
 Contact info: CarolloEngineering@carollo.com
 Date: 2026.03.27 10:27:03 -0700



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 West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
 INSTRUMENTATION
SCHEMATIC SYMBOLS

VERIFY SCALES	JOB NO. 202633
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. GN-05
0 1"	SHEET NO. 145 OF 152



- KEY NOTES:**
- FURNISH AND INSTALL 12-STRAND SINGLE MODE FIBER OPTIC CABLE. REMOVE EXISTING MULTIMODE FIBER OPTIC CABLE PRIOR TO INSTALLATION.
 - 2-12 STRAND SINGLE MODE FIBER OPTIC CABLES.
 - REMOVE EXISTING MULTIMODE FIBER OPTIC CABLE.
 - FURNISH NEW 2-STRAND SINGLE MODE FIBER OPTIC PATCH CABLE.
 - SEE NETWORK CONNECTION DIAGRAMS FOR ADDITIONAL DETAILS.

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MARCH 2026

Digitally signed by Matthew G. Hatch
Contact info: CarolloEngineering.com
Date: 2026.03.09 10:57:00 -0500

REGISTERED PROFESSIONAL ENGINEER
No. 5612657
MATTHEW G. HATCH
STATE OF UTAH



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West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
INSTRUMENTATION
CONTROL SYSTEM BLOCK DIAGRAM

VERIFY SCALES
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202633

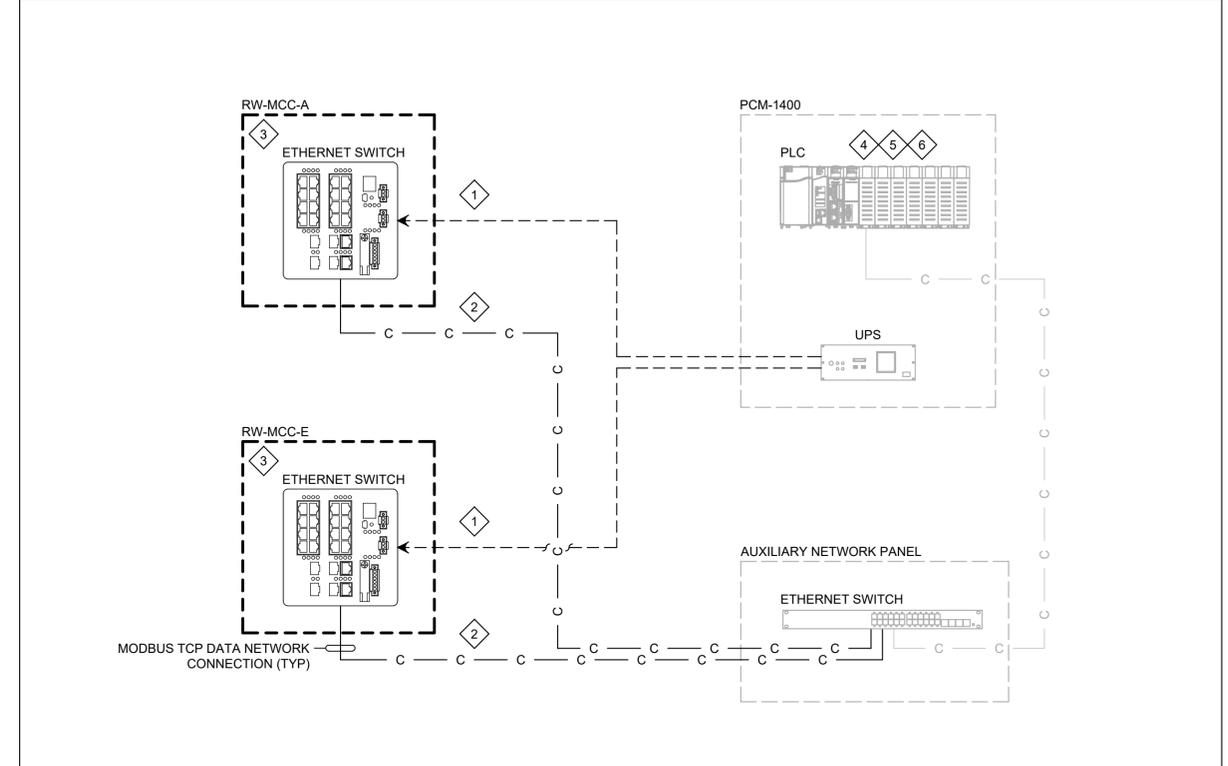
DRAWING NO.
GN-06

SHEET NO.
146 OF 152

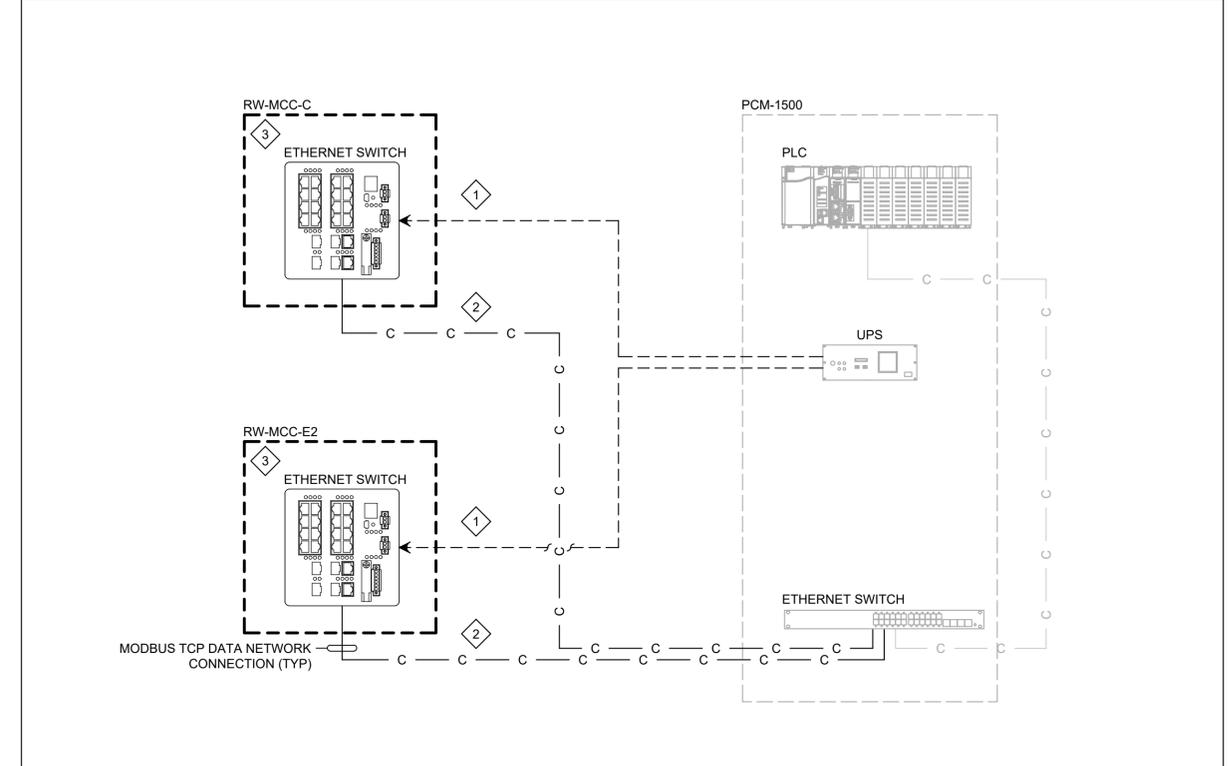
KEY NOTES:

1. UPS IN PCM SHALL PROVIDE 120VAC POWER TO 24VDC POWER SUPPLY MOUNTED IN MCC. PROVIDE ALL NECESSARY TERMINAL BLOCKS AND WIRING IN THE PCM FOR 120VAC POWER.
2. NETWORK DATA SHALL BE MODBUS TCP COMMUNICATION PROTOCOL.
3. MCC ETHERNET SWITCH AND MCC INTERNAL NETWORK CABLES SHALL BE PROVIDED BY MCC SUPPLIER.
4. OWNER WILL FURNISH AND INSTALL MODBUS TCP COMMUNICATION MODULE IN PLC BACKPLANE.
5. OWNER WILL FURNISH AND INSTALL PLC POWER SUPPLY IN PLC BACKPLANE.
6. OWNER'S CONTROL SYSTEM INTEGRATOR WILL CONSOLIDATE HARD-WIRED I/O SIGNALS AND FIELD WIRING.

RAS-1 PUMP STATION



RAS-2 PUMP STATION



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SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
INSTRUMENTATION
NETWORK CONNECTION DIAGRAM 1

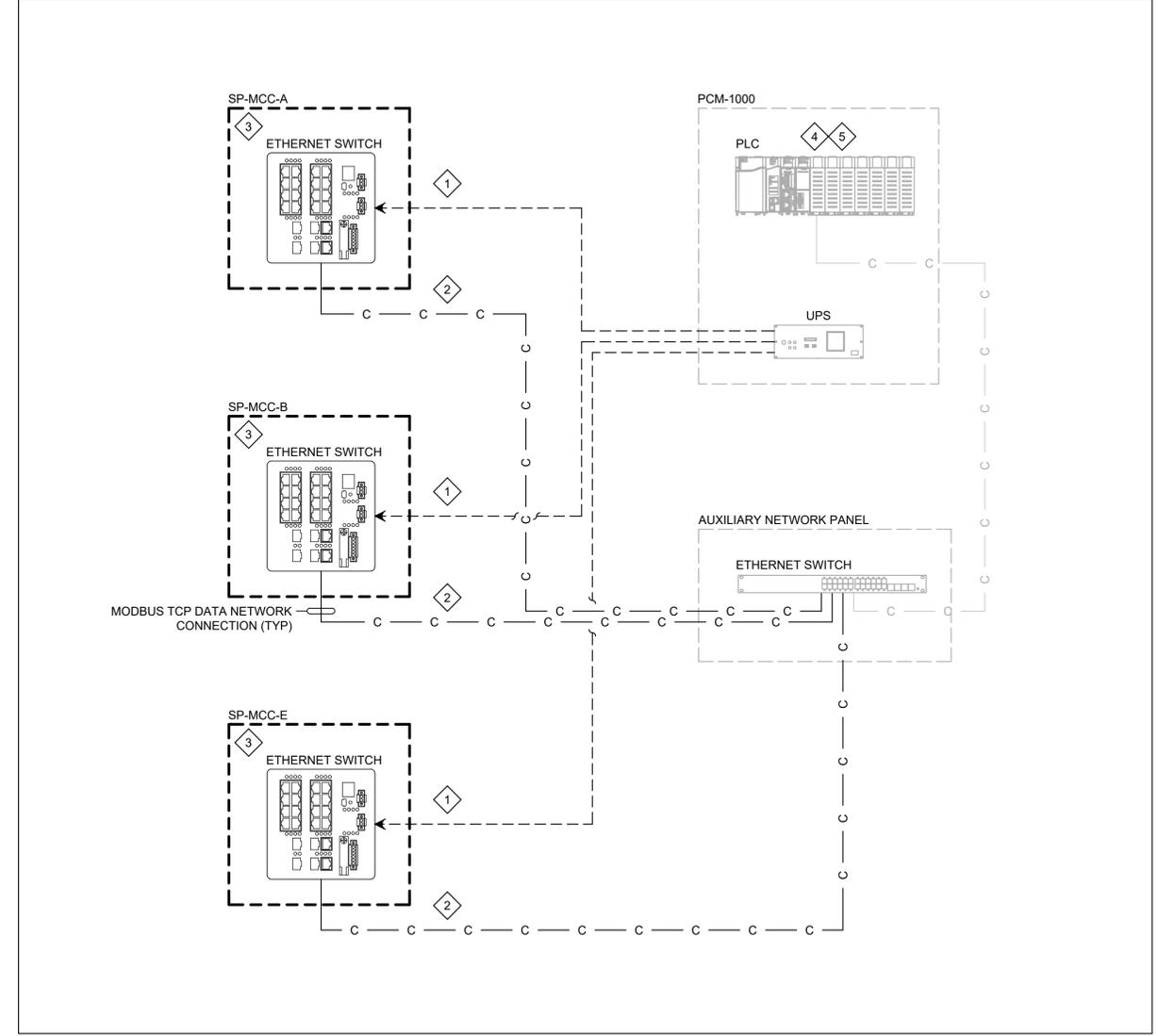
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202633
DRAWING NO.
GN-07
SHEET NO.
147 OF 152

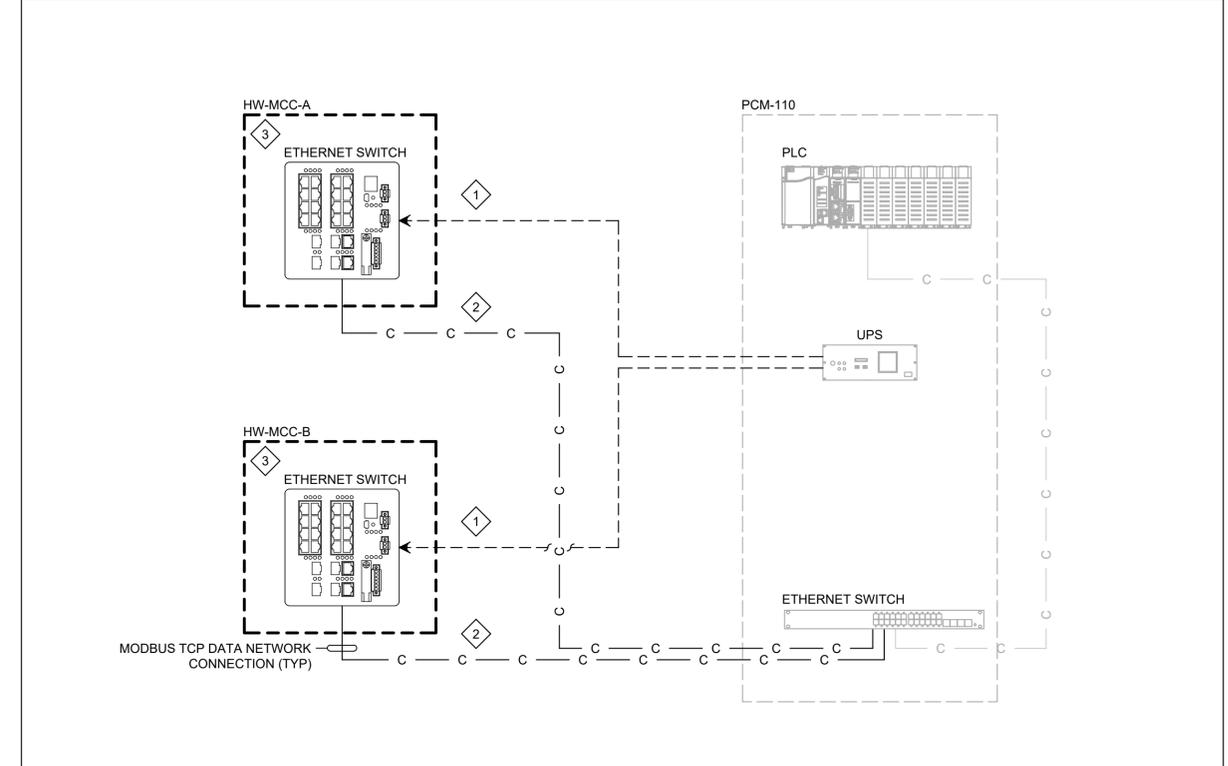
KEY NOTES:

1. UPS IN PCM SHALL PROVIDE 120VAC POWER TO 24VDC POWER SUPPLY MOUNTED IN MCC. PROVIDE ALL NECESSARY TERMINAL BLOCKS AND WIRING IN THE PCM FOR 120VAC POWER.
2. NETWORK DATA SHALL BE MODBUS TCP COMMUNICATION PROTOCOL.
3. MCC ETHERNET SWITCH AND MCC INTERNAL NETWORK CABLES SHALL BE PROVIDED BY MCC SUPPLIER.
4. OWNER WILL FURNISH AND INSTALL MODBUS TCP COMMUNICATION MODULE IN PLC BACKPLANE.
5. OWNER'S CONTROL SYSTEM INTEGRATOR WILL CONSOLIDATE HARD-WIRED I/O SIGNALS AND FIELD WIRING.

SOLIDS HANDLING BUILDING



HEADWORKS



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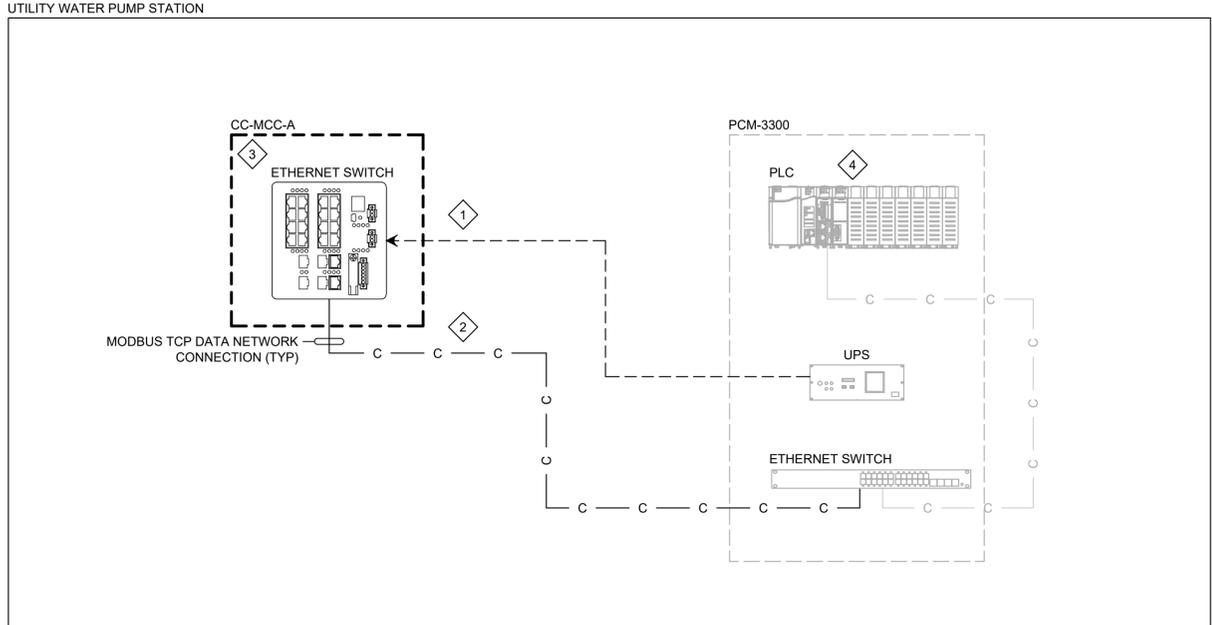
SOUTH VALLEY WATER RECLAMATION
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INSTRUMENTATION
NETWORK CONNECTION DIAGRAM 2

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JOB NO.
202633
DRAWING NO.
GN-08
SHEET NO.
148 OF 152

KEY NOTES:

1. UPS IN PCM SHALL PROVIDE 120VAC POWER TO 24VDC POWER SUPPLY MOUNTED IN MCC. PROVIDE ALL NECESSARY TERMINAL BLOCKS AND WIRING IN THE PCM FOR 120VAC POWER.
2. NETWORK DATA SHALL BE MODBUS TCP COMMUNICATION PROTOCOL.
3. MCC ETHERNET SWITCH AND MCC INTERNAL NETWORK CABLES SHALL BE PROVIDED BY MCC SUPPLIER.
4. OWNER WILL FURNISH AND INSTALL MODBUS TCP COMMUNICATION MODULE IN PLC BACKPLANE.



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**SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
INSTRUMENTATION
NETWORK CONNECTION DIAGRAM 3**

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GN-09
SHEET NO.
149 OF 152

GENERAL NOTES:

1. INSTALL PRE-TERMINATED FIBER CONNECTIONS WHERE POSSIBLE.
2. COORDINATE WITH OWNER FOR THE EXACT LOCATION OF FIBER OPTIC PATCH PANELS WITHIN EACH ENCLOSURE.
3. THE NEW FIBER OPTIC CONNECTIONS LISTED IN THE TABLE INCLUDE NEW AND EXISTING SINGLE MODE FIBER OPTIC CABLES THAT SHALL BE TERMINATED ON NEW FIBER OPTIC PATCH PANELS. SEE ELECTRICAL DRAWINGS AND DRAWING GN-06 FOR ROUTING OF NEW AND EXISTING CABLES.
4. UNLESS OTHERWISE NOTED, REMOVE ALL EXISTING FIBER OPTIC PATCH PANELS.

LOCATION	ENCLOSURE	NUMBER OF NEW FIBER OPTIC CONNECTIONS	FIBER OPTIC PATCH PANEL MOUNTING	PATCH PANEL MODEL	NOTES
ADMINISTRATION BLDG	NETWORK ROOM RACKS	6-12 STRAND SINGLE MODE FIBER OPTIC CABLE	RACK MOUNT	CORNING CCH-02U	Four of the new fiber optic connections can be added to the existing Corning CCH-02U patch panels. Provide one additional Corning CCH-02U to accommodate two new fiber optic connections. Remove existing Leviton rack mount patch panels.
FINAL CLARIFIERS CHEMICAL BLDG	PCM-2302	2-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	
CHEMICAL BLDG	NETWORK RACK	4-12 STRAND SINGLE MODE FIBER OPTIC CABLE	RACK MOUNT	CORNING CCH-02U	Replace existing rack-mount patch panels with two Corning CCH-02U.
U.V. BLDG	PCM-2500	1-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	Corning Single-Panel Housing patch panel is acceptable if there is insufficient space for the Corning WCH-02P
OX DITCH CAMERA		1-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	Corning Single-Panel Housing patch panel is acceptable if there is insufficient space for the Corning WCH-02P
FRONT GATE	PCM-1060	1-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	Corning Single-Panel Housing patch panel is acceptable if there is insufficient space for the Corning WCH-02P
THICKENER CONTROL BLDG	PCM-300	2-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	
DAF BLDG	PCM-301	1-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	Corning Single-Panel Housing patch panel is acceptable if there is insufficient space for the Corning WCH-02P
MAINTENANCE BLDG	PCM-140	1-12 STRAND SINGLE MODE FIBER OPTIC CABLE	RACK MOUNT	CORNING CCH-02U	
HEADWORKS NORTH BLDG	PCM-202	1-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	
BLOWER BLDG 1	PCM-200	2-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	
UTILITY WATER PUMP STATION	PCM-3300	2-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	
LOWER MAINTENANCE	PCM-130	1-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	
SOLIDS HANDLING BLDG	PCM-1700	2-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	Remove existing rack-mount patch panel and replace with wall-mount patch panel in PCM-1700
THERMAL DRYING FACILITY	PCM-1800	2-12 STRAND SINGLE MODE FIBER OPTIC CABLE	RACK MOUNT	CORNING CCH-02U	
UW FILTER BLDG		1-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	
HEADWORKS PUMP ROOM	PCM-110	7-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-04P	Provide 2 new wall mount patch panels
ES-1		1-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	
ES-2		1-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	
BLOWER BLDG 3	VCP-610	4-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-04P	Replace two existing wall mount patch panels with one wall mount patch panel.
BIOREACTORS E-HOUSE	PCM-600	2-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	Provide new 2-strand patch cable between PCM-600 and PCM-600A in adjacent E-House.
ES-3		1-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	
BIOREACTOR 5 ELECTRICAL ROOM	PCM-605	2-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	
BLOWER BLDG 2	PCM-400	2-12 STRAND SINGLE MODE FIBER OPTIC CABLE	WALL MOUNT	CORNING WCH-02P	

FIBER OPTIC PATCH PANEL SCHEDULE

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FIBER OPTIC PATCH PANEL SCHEDULE

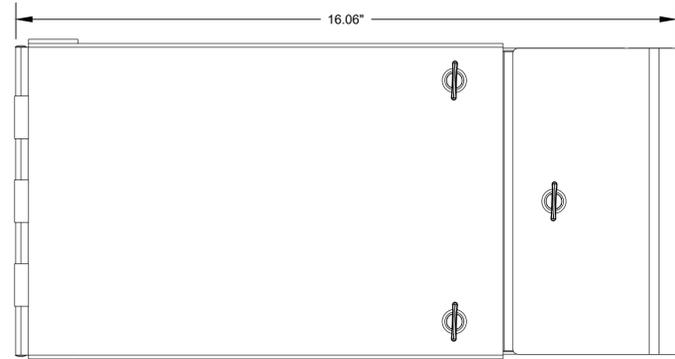
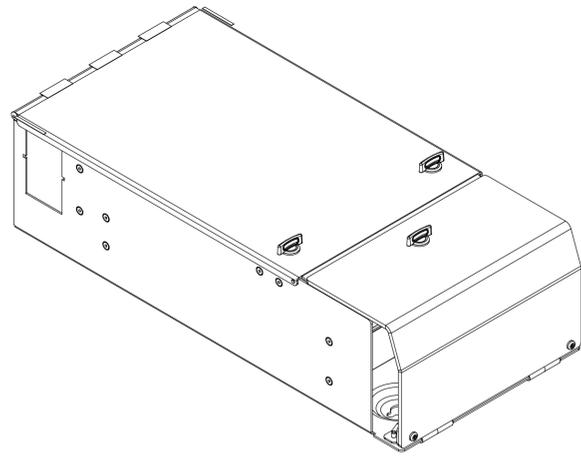
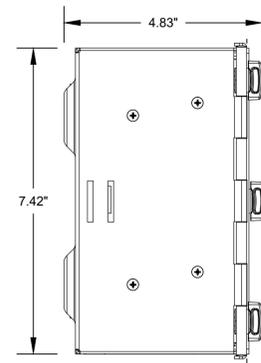
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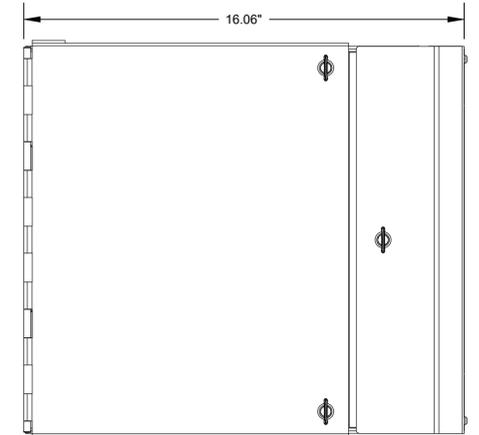
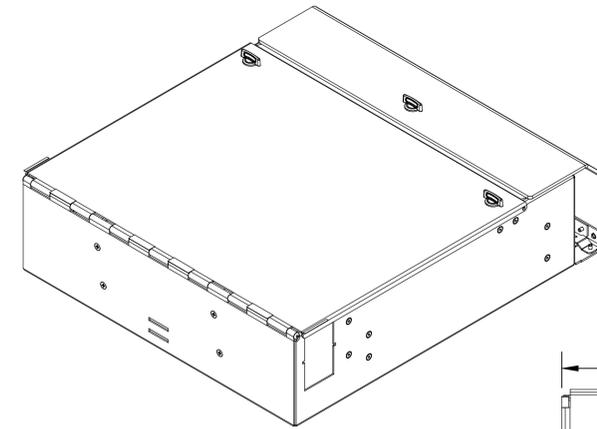
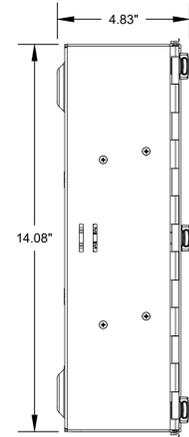
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150 OF 152



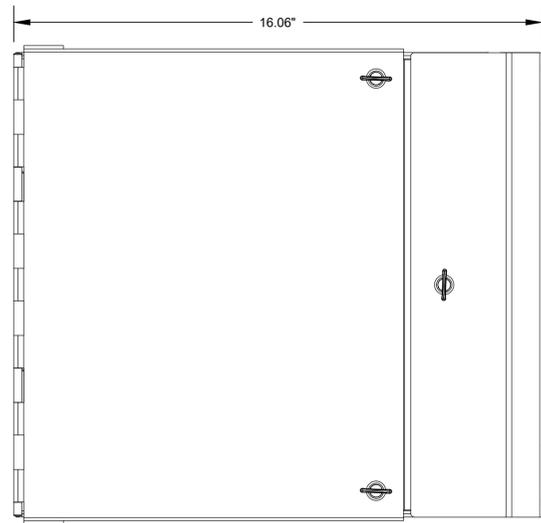
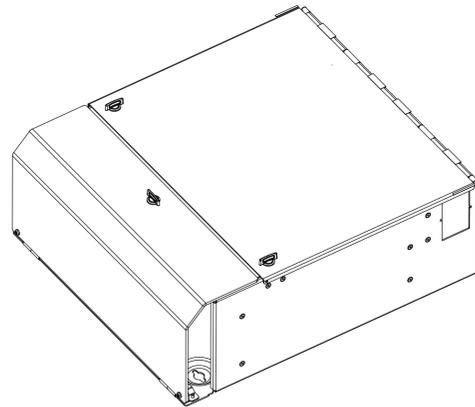
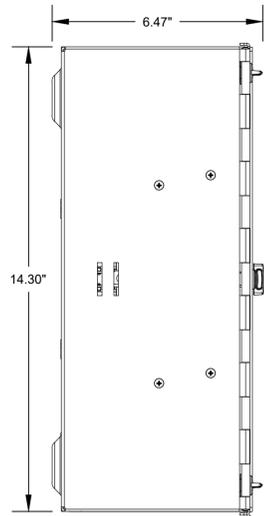
GENERAL NOTES:
1. PATCH PANEL ACCOMMODATES TWO 12-STRAND FIBER OPTIC CABLES.

NN901 PATCH PANEL MOUNTING DETAIL
TYP
8/7/25



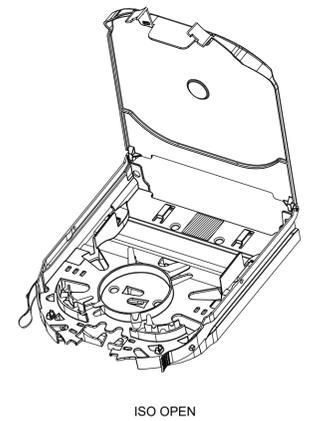
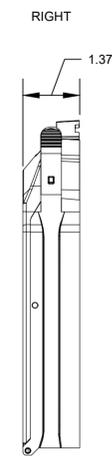
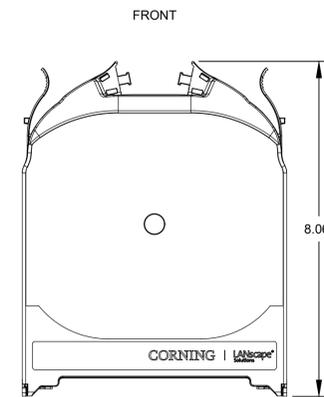
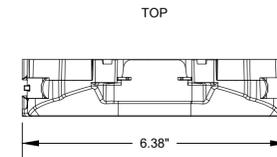
GENERAL NOTES:
1. PATCH PANEL ACCOMMODATES FOUR 12-STRAND FIBER OPTIC CABLES.

NN902 PATCH PANEL MOUNTING DETAIL
TYP
8/7/25



GENERAL NOTES:
1. PATCH PANEL ACCOMMODATES SIX 12-STRAND FIBER OPTIC CABLES.

NN903 PATCH PANEL MOUNTING DETAIL
TYP
8/7/25



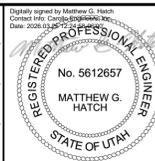
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8/21/25

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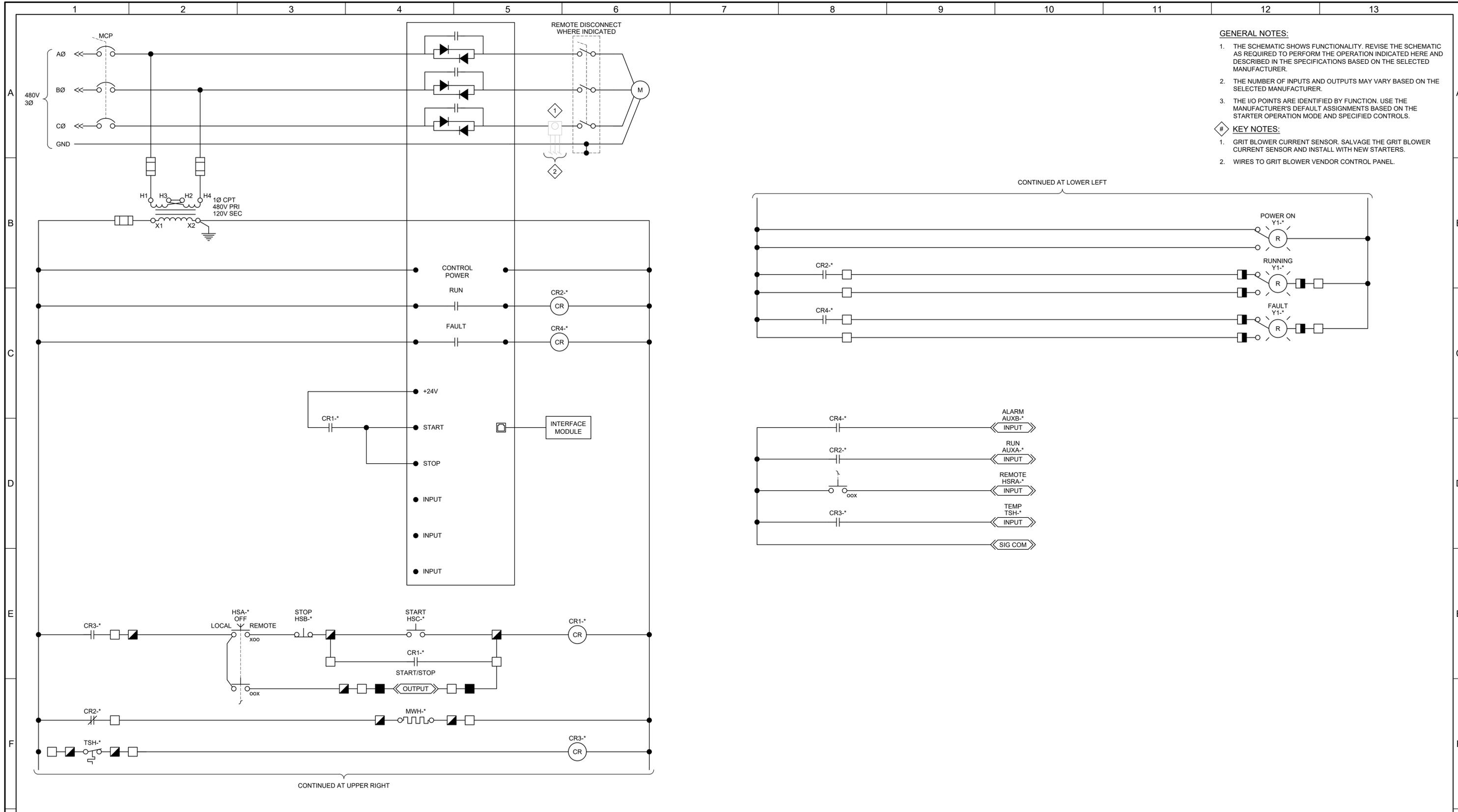


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FIBER PATCH PANEL DETAILS

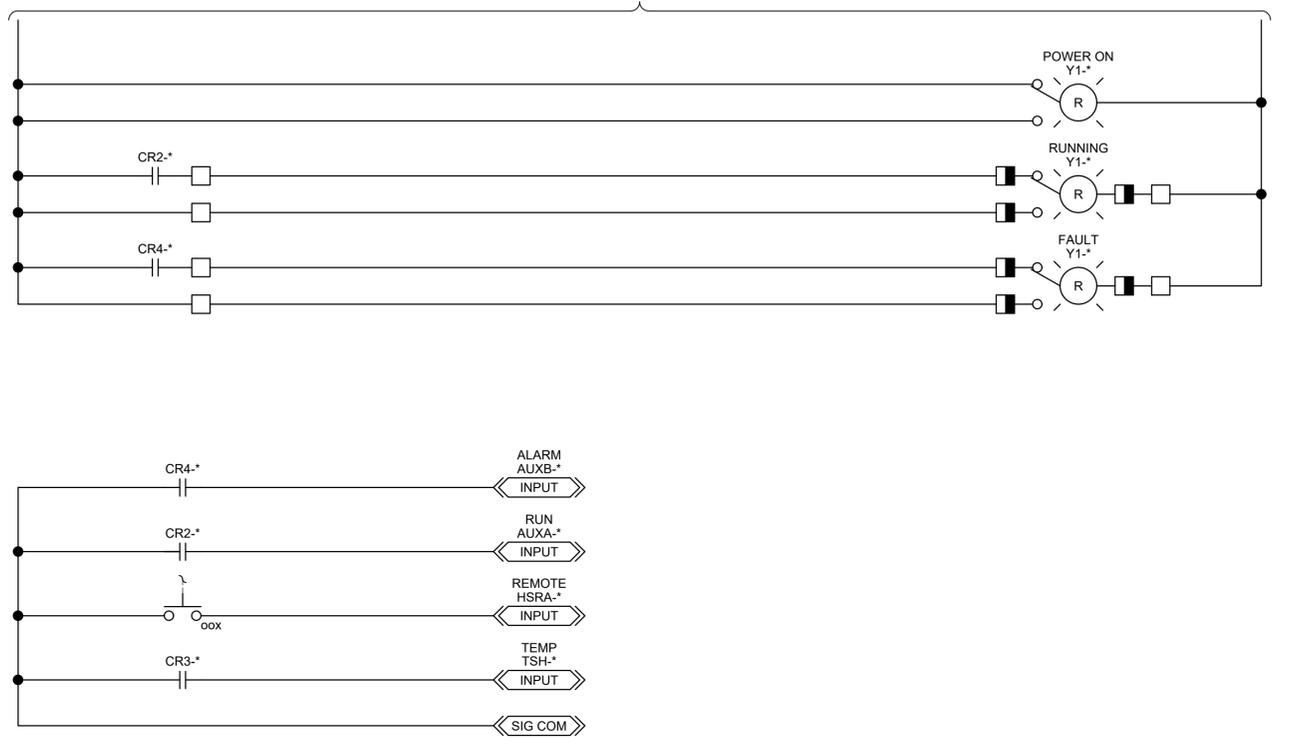
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DRAWING NO.
GN-11
SHEET NO.
151 OF 152



- 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. GRIT BLOWER CURRENT SENSOR. SALVAGE THE GRIT BLOWER CURRENT SENSOR AND INSTALL WITH NEW STARTERS.
 2. WIRES TO GRIT BLOWER VENDOR CONTROL PANEL.

CONTINUED AT LOWER LEFT



CONTINUED AT UPPER RIGHT

14 CONTROL SCHEMATIC

* = 445 → GRB-445 PI-HWG-14

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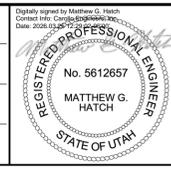
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SOUTH VALLEY WATER RECLAMATION
MCC REPLACEMENT PROJECT
INSTRUMENTATION
CONTROL SCHEMATICS 14

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. IS-14
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