



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

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0  1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 10548A.10
DRAWING NO. 13E01
SHEET NO. 30 OF 38

PROJECT NO. FILE NAME: 10548A10_P2_13E02.dgn



[illegible]

Plot Date: 09-MAR-2021 3:53:57 PM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: crollins

INSTRUMENT TAG IDENTIFICATION LETTERS

INSTRUMENT FUNCTION MEASURED VARIABLE		ELEMENT	TRANSMITTER	INDICATING TRANSMITTER	CONVERTER TRANSDUCER, RELAY SPECIAL DEVICES	INDICATOR	RECORDER	CONTROLLER	INDICATING CONTROLLER	RECORDING CONTROLLER	SWITCH	SWITCH LOW LOW	SWITCH LOW	SWITCH HIGH	SWITCH HIGH HIGH	SWITCH COMBINATION HIGH LOW	ACTION	ALARM LOW LOW	ALARM LOW	ALARM HIGH	ALARM HIGH HIGH	TOTALIZE INDICATOR TRANSMITTER	VALVE	GAUGE	LIGHT	SPEED SETTING
A	ANALYSIS	AE	AT	AIT	AY	AI	AR	AC	AIC	ARC	AS	ASLL	ASL	ASH	ASHH	ASHL		AALL	AAL	AAH	AAHH				AL	
B	BURNER FLAME	BE	BT	BIT	BY	BI	BR	BC	BIC	BRC	BS	BSLL	BSL	BSH	BSHH			BALL	BAL	BAH	BAHH				BL	
C	CONDUCTIVITY	CE	CT	CIT	CY	CI	CR	CC	CIC	CRC	CS	CSLL	CSL	CSH	CSHH	CSHL		CALL	CAL	CAH	CAHH				CL	
D	DENSITY	DE	DT	DIT	DY	DI	DR	DC	DIC	DRC	DS	DSLL	DSL	DSH	DSHH	DSHL		DALL	DAL	DAH	DAHH				DL	
E																										
F	FLOW	FE	FT	FIT	FY	FI	FR	FC	FIC	FRC	FS	FSL	FSL	FSH	FSHH	FSHL		FALL	FAL	FAH	FAHH	FQI	FCV	FG	FL	
FF	FLOW RATIO				FFY	FFI		FFC	FFIC		FFS														FFL	
G	GAUGING (DIMENSION)																									
H	HAND (MANUAL)*							HC			HS*						HA*						HV		HL	HSS
I	CURRENT		IT	IIT	IY	II	IR	IC	IIC	IRC	IS	ISLL	ISL	ISH	ISHH			IALL	IAL	IAH	IAHH				IL	
J	POWER																									
K	TIME				KY	KI	KR	KC	KIC	KRC	KS	KSLL	KSL	KSH	KSHH			KALL	KAL	KAH	KAHH		KV		KL	
L	LEVEL	LE	LT	LIT	LY	LI	LR	LC	LIC	LRC	LS	LSLL	LSL	LSH	LSHH	LSHL		LALL	LAL	LAH	LAHH		LCV	LG	LL	
M	MOISTURE OR HUMIDITY	ME	MT	MIT	MY	MI	MR	MC	MIC	MRC	MS	MSLL	MSL	MSH	MSHH			MALL	MAL	MAH	MAHH				ML	
N	EMERGENCY SHUTDOWN																									
O																										
P	PRESSURE OR VACUUM	PE	PT	PIT	PY	PI***	PR	PC	PIC	PRC	PS****	PSLL	PSL	PSH	PSHH	PSHL		PALL	PAL	PAH	PAHH		PCV		PL	
PD	DIFFERENTIAL PRESSURE		PDT	PDIT	PDY	PDI	PDR	PDC	PDIC	PDRC	PDS	PDSLL	PDSL	PDSH	PDSHH			PDALL	PDAL	PDAH	PDAHH		PDCV		PDL	
Q	QUANTITY	QE	QT	QIT	QY	QI	QR				QS	QSLL	QSL	QSH	QSHH			QALL	QAL	QAH	QAAH					
R	RADIOACTIVITY																									
S	SPEED	SE	ST	SIT	SY	SI	SR	SC	SIC	SRC	SS	SSLL	SSL	SSH	SSHH			SALL	SAL	SAH	SAHH					
T	TEMPERATURE	TE	TT	TIT	TY	TI	TR	TC	TIC	TRC	TS	TSLL	TSL	TSH	TSHH	TSHL		TALL	TAL	TAH	TAHH		TCV		TL	
TD	DIFFERENTIAL TEMPERATURE		TDI	TDIT	TDY	TDI	TDR	TDC	TDIC	TDRC	TDS	TDSLL	TDSL	TDSH	TDSHH			TDALL	TDAL	TDAH	TDAHH		TDCV		TDL	
U	MULTIVARIABLE					UI	UR	UC	UIC	URC	US														UL	
V	VISCOSITY	VE	VT	VIT	VY	VI	VR	VC	VIC	VRC	VS	VSLL	VSL	VSH	VSHH			VALL	VAL	VAH	VAHH				VL	
W	WEIGHT	WE	WT	WIT	WY	WI	WR				WS	WSLL	WSL	WSH	WSHH			WALL	WAL	WAH	WAHH					
X	UNCLASSIFIED	XE	XT	XIT	XY	XI	XR	XC	XIC	XRC	XS	XSLL	XSL	XSH	XSHH			XALL	XAL	XAH	XAAH		XCV	XG	XL	
XV	VIBRATION	XVE	XVT		XVY	XVI	XVR				XVS			XVSH	XVSHH					XVAH	XVAHH				XVL	
Y	STATUS***					YI***																			YL	
Z	POSITION	ZE	ZT	ZIT	ZY	ZI					ZS**											ZV			ZL**	

* REFER TO OPERATOR PILOT DEVICE LEGEND
** LETTER INDICATES POSITION (O=OPEN, C=CLOSED, R=RAISE, L=LOWER, ETC)
*** PI# # = 1,2,3 ETC. AND REPRESENTS A UNIQUE IDENTIFIER AND IS APPLICABLE TO ALL ITEMS IN THE TABLE ABOVE
**** COULD ALSO BE PIS - FOR PRESSURE INDICATING SWITCH

OPERATOR PILOT DEVICE LEGEND

PILOT DEVICE FUNCTION DEVICE TYPE	LOCAL-OFF-REMOTE (LOR) OR LOCAL-STOP-REMOTE (LSR)	STOP (SP)	START (ST)	HAND-OFF-AUTO (HOA)	OFF-ON (OO)	SELECT (SEL)	OPEN-STOP-CLOSE (OSC)	JOG OPEN-HOLD-CLOSE (JOHC)	SEMI-AUTO-AUTO-MANUAL (SAAM)	LEAD-LAG-STANDBY (LLGS)	JOG OPEN-JOG CLOSE (JOJC)	ONLINE-OFFLINE (OLOF)	AUTO-MANUAL (AM)	FIXED RATE-LEVEL RATE (FRLR)	OPEN-CLOSE (OC)	NO OFFLINE- OFFLINE TRANSITION (NOOT)	LOW-HIGH (LH)	RESET (RST)	SPEED (SPD)	START-STOP (STSP)	E-STOP (E-SP)	BYPASS (BYP)			SILENCE	POSITION (POS)
	PILOT DEVICE TAG (HAND SWITCHES)	HSA*	HSB	HSC	HSD*	HSE	HSF	HSG*	HSH*	HSI	HSJ*	HSK*	HSL*	HSM*	HSN	HSO*	HSP	HSQ*	HSR	HSS	HST*	HSU	HSV	HSW	HSX	HSY
SCADA/HMI TAG (HAND ACTION)	HAA	HAB	HAC	HAD	HAE	HAF	HAG	HAH	HAI	HAJ	HAK	HAL	HAM	HAN	HAO	HAP	HAQ	HAR	HAS	HAT	HAU	HAV	HAW	HAX	HAY	HAZ

HSA* SELECTOR SWITCH POSITION E.G: HSA(R) R = REMOTE, HSD(A) A = AUTO, ETC

I/O TYPE DESIGNATIONS

AUX1	RUNNING	MSL	MOTOR START LOW
AUX2	FAILED/FAULT	MSM	VALVE MODULATE
AUXF1	RUNNING FORWARD	MSP	MOTOR STOP
AUXH1	RUNNING HIGH	MSR	MOTOR START REVERSE
AUXL1	RUNNING LOW	MST	MOTOR START
AUXR1	RUNNING REVERSE	SS	SPEED SIGNAL
SVC	SOLENOID VALVE CLOSE	ZC	POSITION COMMAND
SVO	SOLENOID VALVE OPEN	ZCC	POSITION COMMAND CLOSE
MS	RUN	ZCO	POSITION COMMAND OPEN
MSF	MOTOR START FORWARD		
MSH	MOTOR START HIGH		

INSTRUMENT TYPE DESIGNATIONS

AM	AMMONIA	O3	OZONE	SH	SODIUM HYPOCHLORITE
CAP	CAPACITANCE	ORP	OXIDATION REDUCTION POTENTIAL	TDR	TIME DOMAIN REFLECTOMETRY
CGD	COMBUSTIBLE GAS DETECTOR	P	PRESSURE	TH	THERMAL
CL	CHLORINE	P-SUB	PRESSURE SUBMERSIBLE	TSS	TOTAL SUSPENDED SOLIDS
COND	CONDUCTIVITY	PC	PARTICLE COUNTER	TURB	TURBIDITY
DO	DISSOLVED OXYGEN	PO	PHOSPHOROUS	US	ULTRASONIC
FMCW	FREQ. MODULATED CONT. WAVE	PTOF	PULSE TIME OF FLIGHT	UVI	UV INTENSITY
HSF	FLUORIDE	R/I	RESISTANCE TO CURRENT	UVT	UV TRANSMITTANCE
IS	INTRINSIC SAFETY BARRIER	ROT	ROTAMETER	VAC	VACUUM
LEL	LOWER EXPLOSIVE LIMIT	RTD	RESISTANCE TEMP DETECTOR		
MAG	MAGNETIC	SC	STREAMING CURRENT		

SPECIFIC ABBREVIATIONS

APH	A PHASE	MWH	MOTOR WINDING HEATER
BPH	B PHASE	SSG	SECONDARY SWITCHGEAR
BRB	BEARING BOTTOM	SV*	SOLENOID VALVE
BRT	BEARING TOP	SPD	SURGE PROTECTIVE DEVICE
BTFLY	BUTTERFLY	UPS	UNINTERRUPTIBLE POWER SUPPLY
CPH	C PHASE	YA	STATUS AUTO
CC*	CALIBRATION COLUMN	YR	STATUS REMOTE
HTR	HEATER	Y1	STATUS RUNNING
HTU	HEAT TRACE UNIT	Y2	ALARM FAILED/FAULT

* CC# AND SV# # = 1, 2, 3 ETC. AND REPRESENTS A UNIQUE IDENTIFIER

INSTRUMENT LINE SYMBOLS

INSTRUMENT OR CONNECTION TO PROCESS	
PNEUMATIC SIGNAL	
ELECTRIC SIGNAL	
HYDRAULIC SIGNAL	
CAPILLARY TUBE	
ELECTROMAGNETIC OR SONIC SIGNAL (GUIDED)	
ELECTROMAGNETIC OR SONIC SIGNAL (NOT GUIDED)	
INTERNAL SYSTEM LINK (SOFTWARE OR DATA LINK)	
COPPER ETHERNET	
FIBER OPTIC ETHERNET	
WIRELESS ETHERNET	
PROFIBUS DP	
PROFIBUS PA	
DEVICENET	
FOUNDATION FIELDBUS	

PROCESS LINE SYMBOLS

PRIMARY PROCESS FLOW IN PIPE	
SECONDARY PROCESS FLOW IN PIPE	
PRIMARY PROCESS FLOW IN CHANNEL	
SECONDARY PROCESS FLOW IN CHANNEL	

DESIGNATIONS

EQUIPMENT ENCLOSURE	
EXISTING	
FUTURE	

MISCELLANEOUS P&ID SYMBOLS

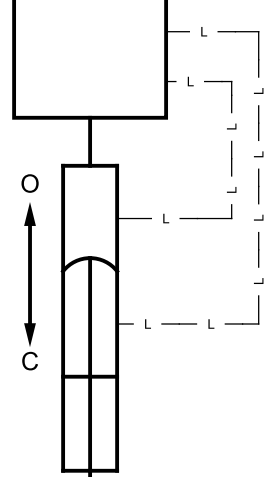
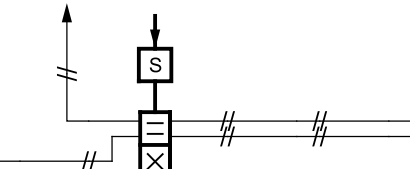
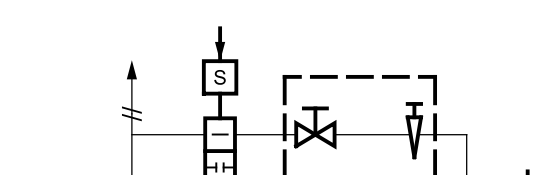
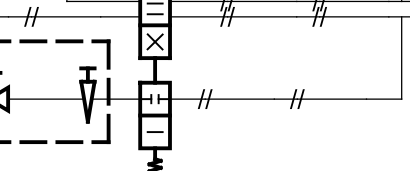
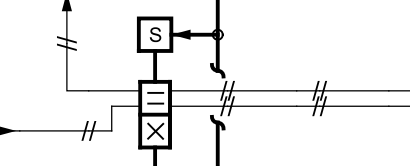
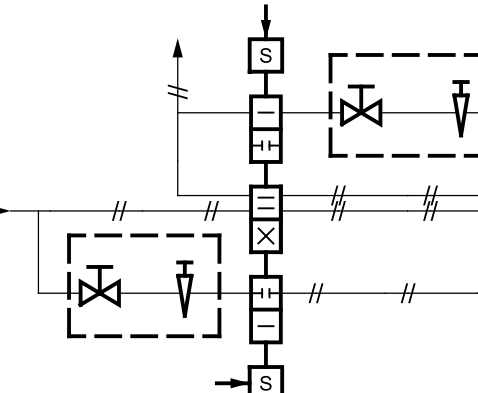
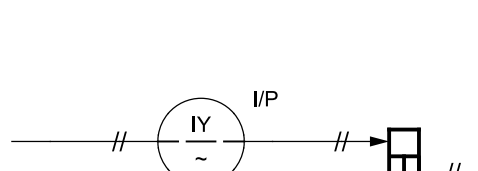
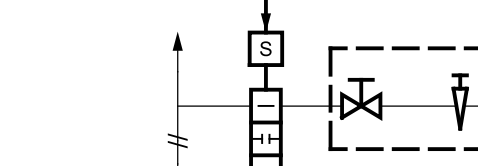
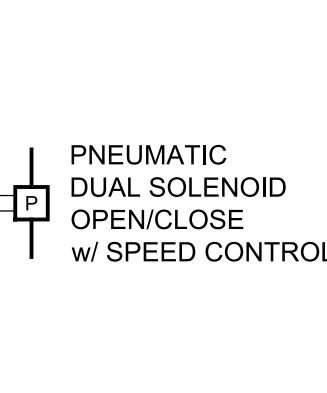
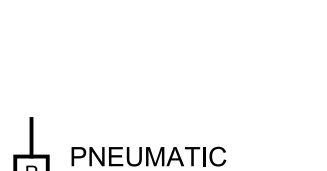
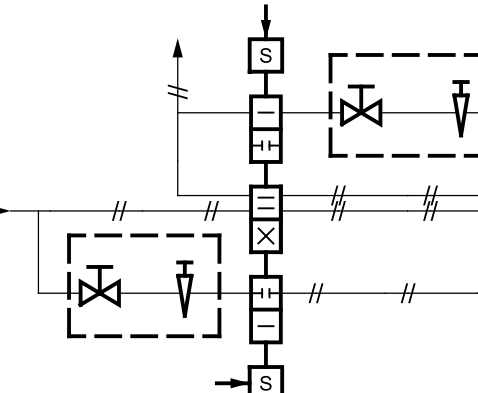
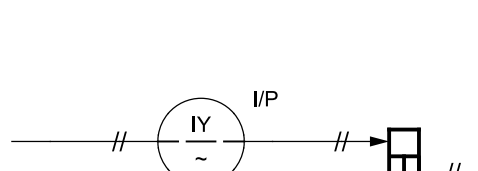
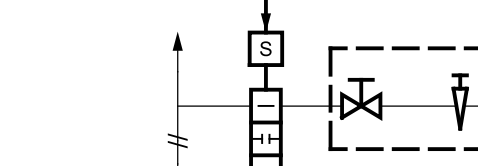
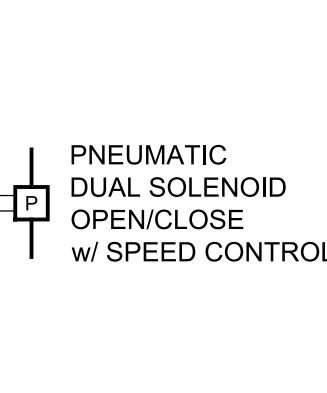
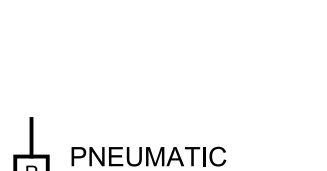
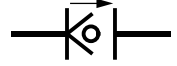
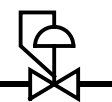
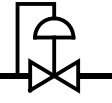
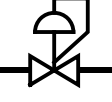
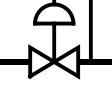
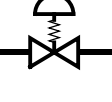
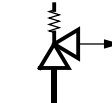
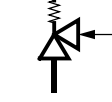
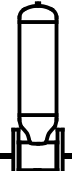
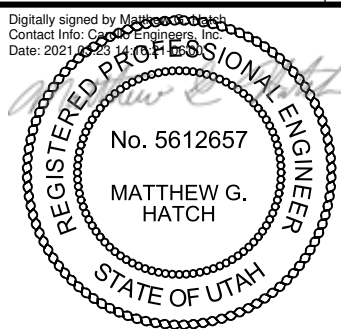
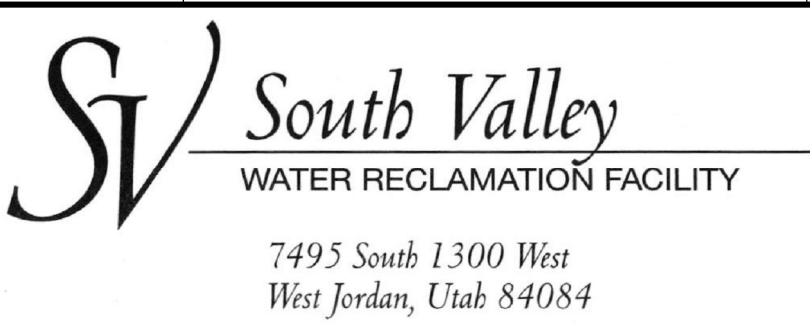
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PIPE CALLOUT	
SIGNAL CONTINUATION	

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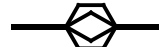
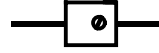
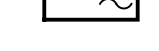
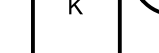
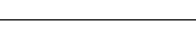
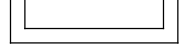
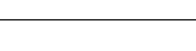
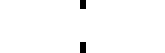
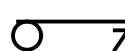
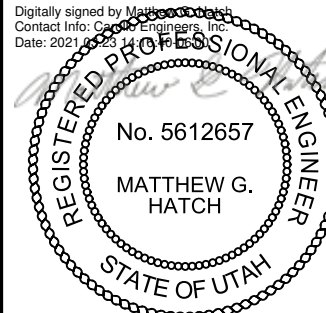
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Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: crollins

		2		3		4		5		6		7		8		9		10		11		12		13			
		ACTUATORS												PIPING				PUMPS				BLOWERS/ COMPRESSORS					
		             <td colspan="2">       </td> <td colspan="2">  AIR GAP  BLIND FLANGE  CAPPED OR PLUGGED  CONCENTRIC INCREASER  CONCENTRIC REDUCER  DRAIN  ECCENTRIC INCREASER  TEE  UNION  ECCENTRIC REDUCER  EXPANSION COUPLING  EXPANSION JOINT VIBRATION CENTER  FLEXIBLE CONNECTION  QUICK DISCONNECT </td> <td colspan="2">  AIR DRIVEN  CENTRIFUGAL  CHEMICAL FEED DIAPHRAGM  DIAPHRAGM  GEAR  PERISTALTIC OR HOSE  PISTON  PROGRESSIVE CAVITY  SUBMERSIBLE  VERTICAL TURBINE  VERTICAL CHOPPER  WATER CHAMP </td> <td colspan="2">  CENTRIFUGAL SINGLE STAGE BLOWER  CENTRIFUGAL MULTI STAGE BLOWER  RECIPROCATING COMPRESSOR  SCREW COMPRESSOR  FAN  LIQUID RING COMPRESSOR  ROTARY LOBE BLOWER </td> <td colspan="2"></td>		     		 AIR GAP  BLIND FLANGE  CAPPED OR PLUGGED  CONCENTRIC INCREASER  CONCENTRIC REDUCER  DRAIN  ECCENTRIC INCREASER  TEE  UNION  ECCENTRIC REDUCER  EXPANSION COUPLING  EXPANSION JOINT VIBRATION CENTER  FLEXIBLE CONNECTION  QUICK DISCONNECT		 AIR DRIVEN  CENTRIFUGAL  CHEMICAL FEED DIAPHRAGM  DIAPHRAGM  GEAR  PERISTALTIC OR HOSE  PISTON  PROGRESSIVE CAVITY  SUBMERSIBLE  VERTICAL TURBINE  VERTICAL CHOPPER  WATER CHAMP		 CENTRIFUGAL SINGLE STAGE BLOWER  CENTRIFUGAL MULTI STAGE BLOWER  RECIPROCATING COMPRESSOR  SCREW COMPRESSOR  FAN  LIQUID RING COMPRESSOR  ROTARY LOBE BLOWER																	
		CHECK VALVES		PRESSURE VALVES		VALVES				MISC																	
		 BACK FLOW PREVENTER  BALL  DIAPHRAGM CHECK  DOUBLE FLAP  FLAPPER  SPRING LOADED GENERAL  SPRING LOADED SWING  SWING		 BACKPRESSURE REGULATING SELF CONTAINED  BACKPRESSURE REGULATING EXTERNAL TAP  PRESSURE REDUCING SELF CONTAINED  PRESSURE REDUCING EXTERNAL PRESSURE TAP  REGULATING  PRESSURE RELIEF  VACUUM RELIEF		 3-WAY  3-WAY PLUG  4-WAY  AIR-RELIEF  ANGLE  BALL  BALL V-NOTCH  BUTTERFLY  BUTTERFLY-BURIED VALVE BOX  CONE  DIAPHRAGM		 GATE  GATE-BURIED VALVE BOX  GLOBE  HOSE  MUD  NEEDLE  PINCH  PLUG ECCENTRIC  PLUG ECCENTRIC w-VALVE BOX  PLUG ECCENTRIC LUBRICATED  PLUG ECCENTRIC LUBRICATED BURIED VALVE BOX VALVE DESIGNATIONS NO NORMALLY OPEN NC NORMALLY CLOSED FO FAIL OPEN FC FAIL CLOSE FLP FAIL LAST POSITION		 AIR DAMPER  AIR / CHEMICAL DIFFUSER  BASKET STRAINER  BLOW-OFF SILENCER  CALIBRATION COLUMN  COALESCKER  DESICCANT DRYER  EDUCTOR/EJECTOR  EQUIPMENT/INSTRUMENT LOCATOR  EXHAUST FAN  EYEWASH  FILTER  FILTER SEPARATOR  FINE FILTER  FIRE ALARM/SENSOR  FLAME ARRESTER  FLAME ARRESTER w/THERMALLY OPERATED VALVE		 FLOW CONDITIONER  GAS CANNON  GRINDER  HEAT EXCHANGER  HOIST  HORIZONTAL MIXER  HOSE CONNECTION  INLET STRAINER  INLINE STATIC MIXER  MATERIAL CHANGE  MIXER  MOTOR  NOZZLE  ORIFICE RESTRICTION  PERISTALTIC COMPOSITE SAMPLER  PULSATION DAMPENERS OR   REFRIGERATED DRYER  RUPTURE DISK  SAMPLE PORT  SIGHT TUBE		 SMOKE DETECTOR  STRAINER - MECHANICALLY CLEANED  STRAINER WITH BLOW OFF  STRAINER WYE TYPE  VAPOR HEATER  VAPORIZER  VENT  VENT TO ATMOSPHERE													
		DESIGNED MGH		DRAWN SGS		CHECKED ALM		DATE MARCH 2021		Digitally signed by Matthew G. Hatch DN: cn=Matthew G. Hatch, email=mg.hatch@carollo.com, o=Carollo, ou=Utah, c=US 				 7495 South 1300 West West Jordan, Utah 84084		SOUTH VALLEY WATER RECLAMATION FACILITY		GENERATOR REPLACEMENT		INSTRUMENTATION		SYMBOLS AND ABBREVIATIONS - III		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		JOB NO. 10548A.10 DRAWING NO. GI-03 SHEET NO. 35 OF 38	
REV		DATE		BY		DESCRIPTION																					
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	1	2	3	4	5	6	7	8	9	10	11	12	13
A	FLOW			FLUMES	GATES		LEVEL						
	 BATCH  CORIOLIS  MAGNETIC  ORIFICE  PADDLE WHEEL  PISTON  ANNUBAR  PITOT TUBE  POSITIVE-DISPLACEMENT  PROPELLER-TURBINE  ROTAMETER  THERMAL  ULTRASONIC  ULTRASONIC BIOGAS	 V-CONE  VENTURI TUBE OR FLOW NOZZLE  VORTEX	 LEOPOLD-LAGCO  PALMER-BOWLUS  PARSHALL  REGULAR CUTTHROAT  TRAPEZOIDAL	 SLIDE  SLUICE  STOP	 FLAP  KNIFE  SLIDE  SLUICE  STOP  WEIR  BUTTERFLY	 BUBBLER  CAPACITANCE  TANK PDE LDIT DIFFERENTIAL PRESSURE  ELECTRODE  FLOAT  INVERTED COLUMN  PROBE  RADAR PTOF  RADAR (FREQUENCY MODULATED CONTINUOUS WAVE)  RADAR TDR	 SUSPENDED/SUBMERSIBLE  TUNING FORK  ULTRASONIC						
B													
C													
D													
E	PRESSURE/VACUUM			TEMPERATURE		WEIRS							
	PRESSURE	DIFFERENTIAL PRESSURE	PRESSURE SEALS	 TEMPERATURE w/THERMOWELL  TEMPERATURE GAUGE  THERMOMETER		 RECTANGULAR w/o END CONTRACTIONS  RECTANGULAR w/ END CONTRACTIONS  V-NOTCH (TRIANGULAR)  TRAPEZOIDAL (CIPOLLETTI)	 RECTANGULAR w/o END CONTRACTIONS  RECTANGULAR w/ END CONTRACTIONS  V-NOTCH (TRIANGULAR)  TRAPEZOIDAL (CIPOLLETTI)						
F	 GAUGE  MANOMETER  PRESSURE SWITCH  PRESSURE TRANSMITTER			 GAUGE DIFFERENTIAL INDICATOR  DIFFERENTIAL PRESSURE SWITCH  DIFFERENTIAL PRESSURE TRANSMITTER	 SEAL ANNULAR  SEAL DIAPHRAGM  SEAL SANITARY EXAMPLE  PRESSURE SWITCH	WEIGHT  HYDRAULIC  STRAIN GAUGE							
G	DESIGNED MGH DRAWN SGS CHECKED ALM DATE MARCH 2021							SOUTH VALLEY WATER RECLAMATION FACILITY GENERATOR REPLACEMENT INSTRUMENTATION SYMBOLS AND ABBREVIATIONS - IV		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 10548A.10 DRAWING NO. GI-04 SHEET NO. 36 OF 38		
	REV	DATE	BY	DESCRIPTION									

REV	DATE	BY	DESCRIPTION

DESIGNED	MGH
DRAWN	SGS
CHECKED	ALM
DATE	MARCH 2021



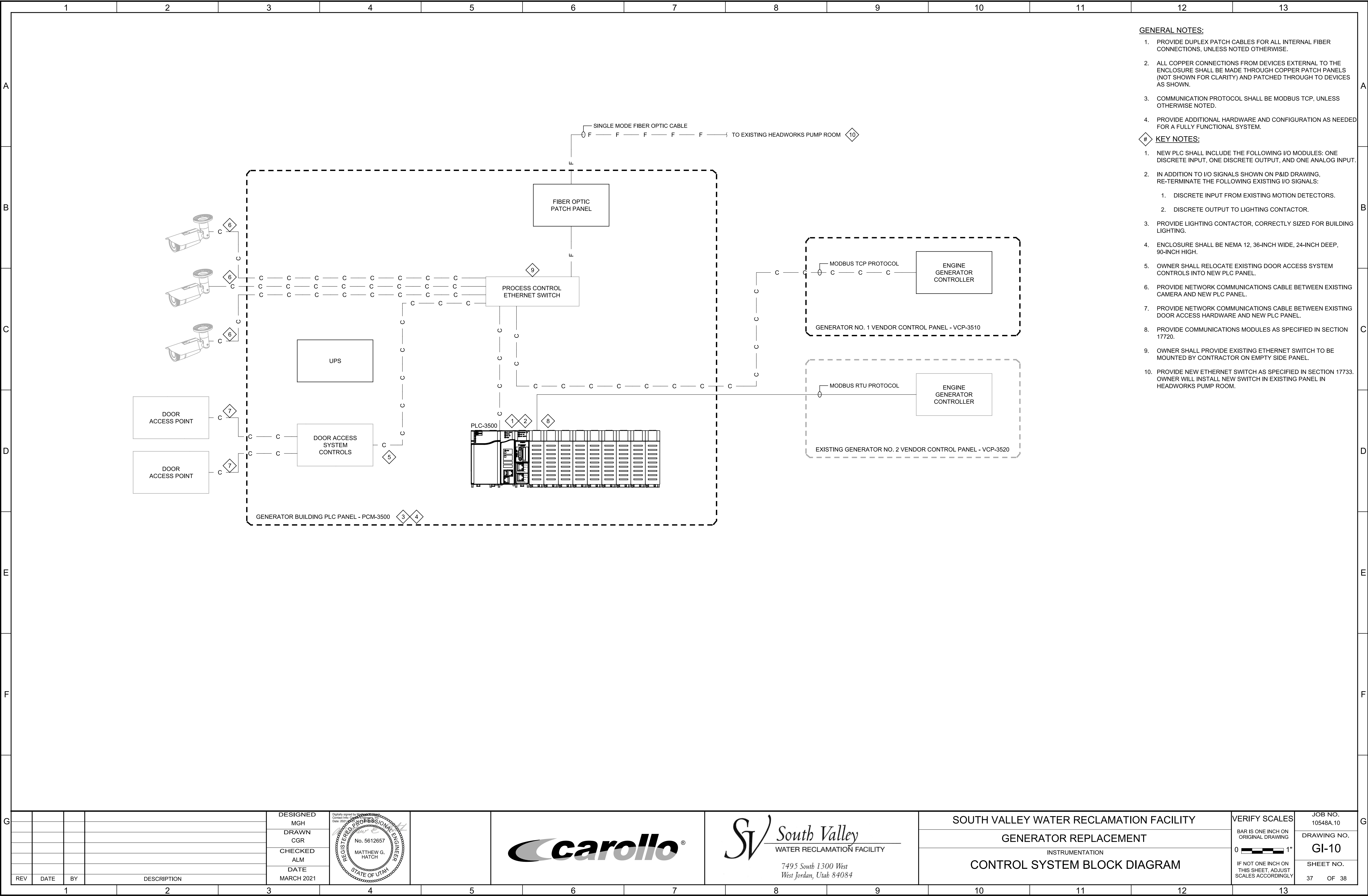
SOUTH VALLEY WATER RECLAMATION FACILITY		VERIFY SCALES	JOB NO. 10548A.10
GENERATOR REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	DRAWING NO. GI-04
INSTRUMENTATION		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 36 OF 38
SYMBOLS AND ABBREVIATIONS - IV			

Plot Date: 17-MAR-2021 9:48:07 AM

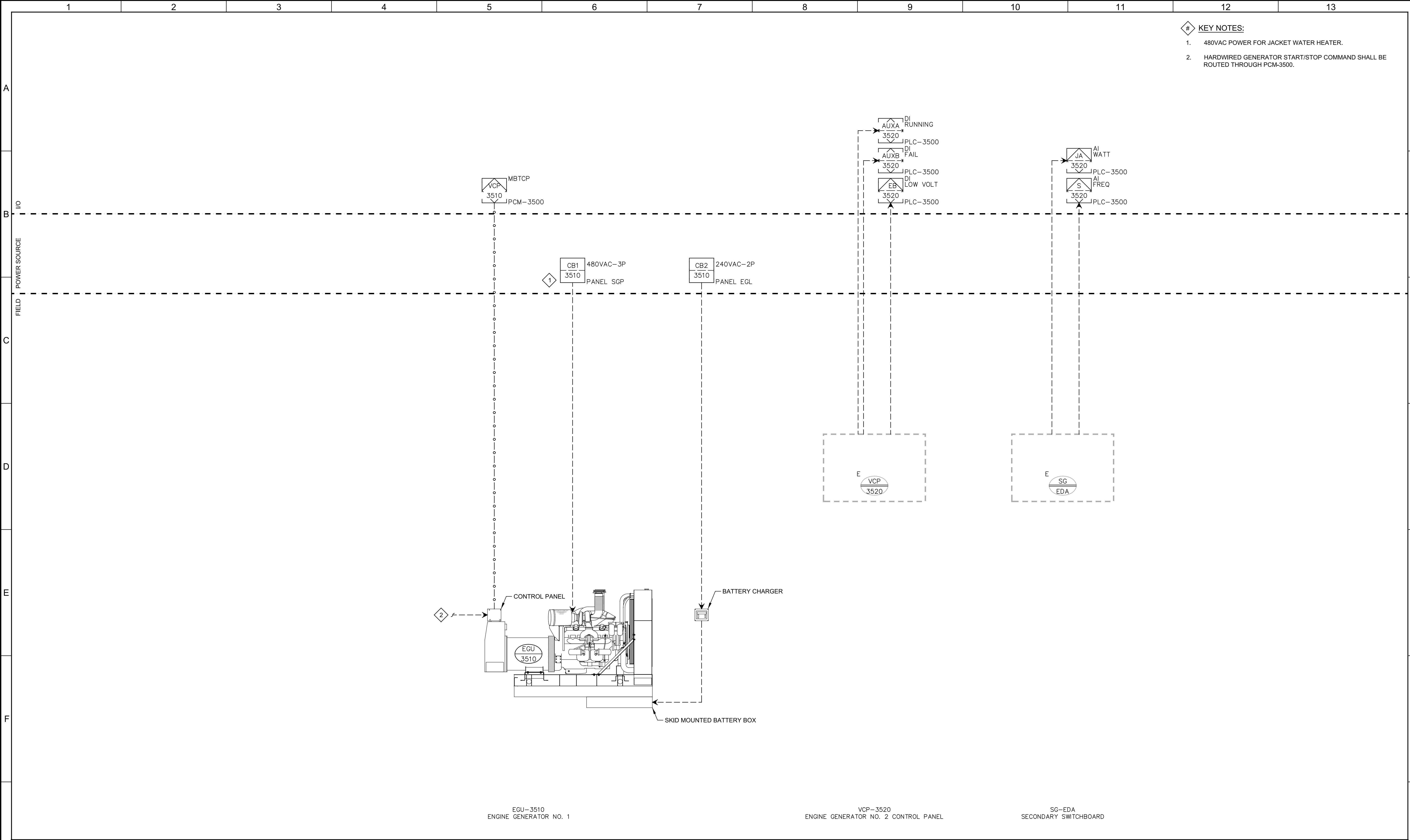
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				DESIGNED TOD											SOUTH VALLEY WATER RECLAMATION FACILITY			VERIFY SCALES	JOB NO. 10548A.10	
				DRAWN CGR											GENERATOR REPLACEMENT			BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	
				CHECKED ALM											INSTRUMENTATION			0 1"	PI-3510	
				DATE MARCH 2021											ENGINE GENERATOR NO. 1 P&ID			IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.	
REV	DATE	BY	DESCRIPTION																	
1																				