

South Valley Water Reclamation Facility

Drawings for the Construction of

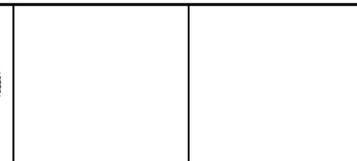
2023 VFD REPLACEMENT PROJECT

July 2023

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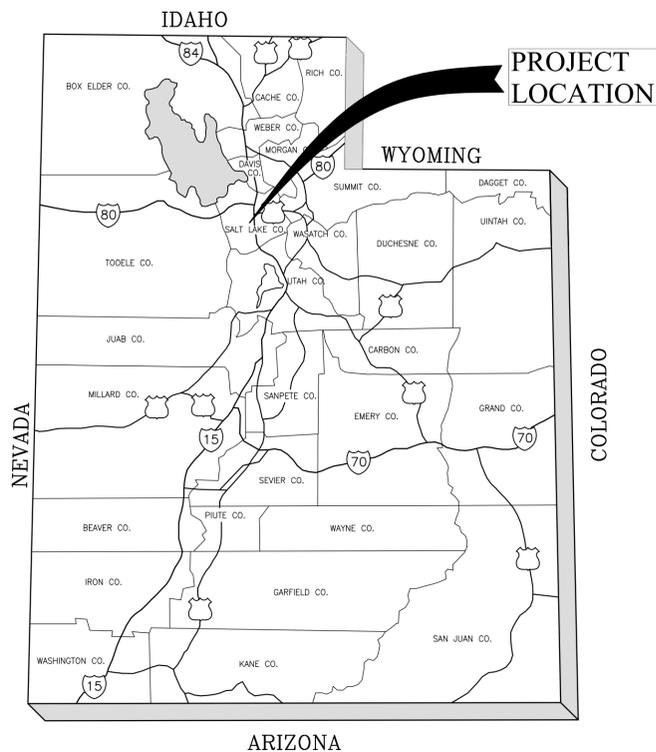


7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
GENERAL
COVER SHEET

VERIFY SCALES
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JOB NO.
201238
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G01
SHEET NO.
1 OF 116



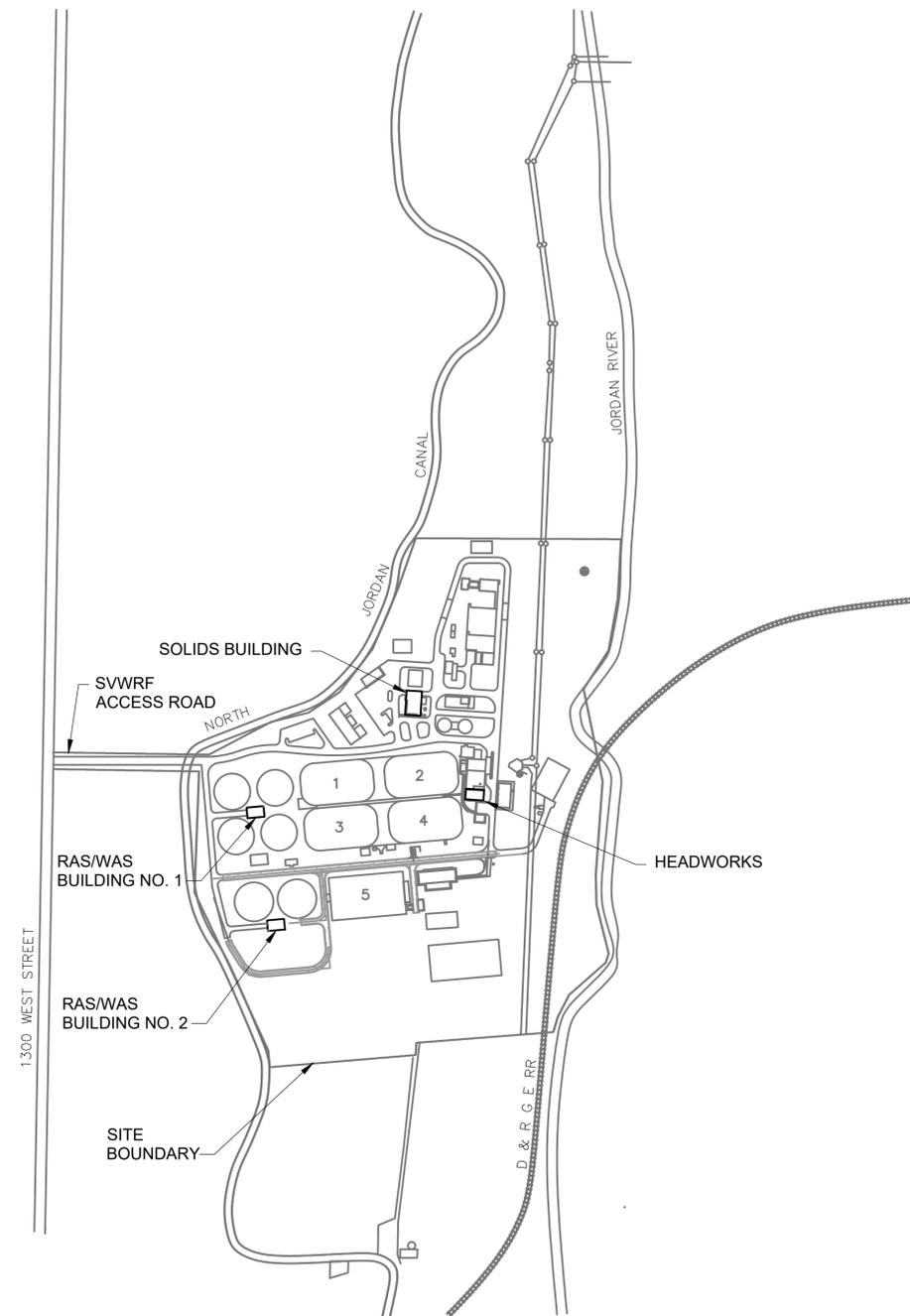
PROJECT LOCATION MAP

NTS



PROJECT LOCATION MAP

NTS



SITE MAP

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SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
 ELECTRICAL
LOCATION, VICINITY AND SITE MAPS

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JOB NO.
201238
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G02
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2 OF 116

DRAWING NO.

DRAWING TITLE

GENERAL

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

ELECTRICAL

GE01 ELECTRICAL LEGEND
 GE02 ELECTRICAL ABBREVIATIONS
 GE-SE-1 OVERALL ELECTRICAL SITE PLAN
 GE-SE-17 AREA 17 ELECTRICAL SITE PLAN
 GE-SE-18 AREA 18 ELECTRICAL SITE PLAN
 GE-SE-24 AREA 24 ELECTRICAL SITE PLAN
 GE-SE-29 AREA 29 ELECTRICAL SITE PLAN
 GE-SE-30 AREA 30 ELECTRICAL SITE PLAN
 GE-SE-31 AREA 31 ELECTRICAL SITE PLAN
 GE-SE-35 AREA 35 ELECTRICAL SITE PLAN
 GE-SE-36 AREA 36 ELECTRICAL SITE PLAN
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 D-OL-HW-02 HW-MCC-B DEMOLITION ONE-LINE DIAGRAM - 1
 D-OL-HW-03 HW-MCC-B DEMOLITION ONE-LINE DIAGRAM - 2
 D-OL-HW-04 HW-MCC-B DEMOLITION ONE-LINE DIAGRAM - 3
 D-OL-HW-05 HW-MCC-A DEMOLITION ELEVATION
 D-OL-HW-06 HW-MCC-A DEMOLITION ONE-LINE DIAGRAM - 1
 D-OL-HW-07 HW-MCC-A DEMOLITION ONE-LINE DIAGRAM - 2
 D-OL-RW-01 RW-MCC-A DEMOLITION ELEVATION
 D-OL-RW-02 RW-MCC-A DEMOLITION ONE-LINE DIAGRAM - 1
 D-OL-RW-03 RW-MCC-A DEMOLITION ONE-LINE DIAGRAM - 2
 D-OL-RW-04 RW-MCC-B DEMOLITION ELEVATION
 D-OL-RW-05 RW-MCC-B DEMOLITION ONE-LINE DIAGRAM
 D-OL-RW-06 RW-DPP-A DEMOLITION ONE-LINE DIAGRAM
 D-OL-RW-07 RW-MCC-C DEMOLITION ELEVATION
 D-OL-RW-08 RW-MCC-C DEMOLITION ONE-LINE DIAGRAM - 1
 D-OL-RW-09 RW-MCC-C DEMOLITION ONE-LINE DIAGRAM - 2
 D-OL-SP-01 SP-MCC-A DEMOLITION MCC ELEVATION
 D-OL-SP-02 SP-MCC-A DEMOLITION MCC ONE-LINE DIAGRAM - 1
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 D-1E-02 HEADWORKS PUMP STATION EL. 74.5' DEMOLITION PLAN
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 D-10E-01 SOLIDS PROCESS BUILDING UPPER DETAIL DEMOLITION PLAN
 D-14E-01 RAS/WAS BUILDING #1 LOWER LEVEL DEMOLITION PLAN
 D-14E-02 RAS/WAS BUILDING #1 LOWER LEVEL DEMOLITION DETAILS
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 D-17E-02 RAS/WAS BUILDING #2 UPPER LEVEL DEMOLITION PLAN
 D-17E-03 RAS/WAS BUILDING #2 LOWER LEVEL DEMOLITION DETAILS
 D-17E-04 RAS/WAS BUILDING #2 UPPER LEVEL DEMOLITION DETAILS

GE-OL-HW-01 HW-MCC-B REVISED ELEVATION
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1E-01 HEADWORKS PUMP STATION REVISED VFD LINEUP
 1E-02 HEADWORK PUMP STATION EL. 74.5' REVISED PLAN
 1E-03 HEADWORK PUMP STATION EL. 87.0' REVISED PLAN
 1-CS-01 HEADWORKS CONDUIT SCHEDULE - 1
 1-CS-02 HEADWORKS CONDUIT SCHEDULE - 2
 1-CS-03 HEADWORKS CONDUIT SCHEDULE - 3
 10E-01 SOLIDS PROCESS BUILDING UPPER DETAIL PLAN
 10-CS-01 SOLIDS PROCESS BUILDING CONDUIT SCHEDULE
 14E-01 RAS/WAS BUILDING #1 LOWER LEVEL REVISED PLAN
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 17E-01 RAS/WAS BUILDING #2 LOWER LEVEL REVISED PLAN
 17E-02 RAS/WAS BUILDING #2 UPPER LEVEL REVISED PLAN
 17-CS-01 RAS/WAS BUILDING #2 CONDUIT SCHEDULE

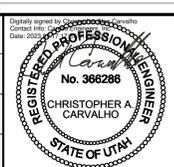
INSTRUMENTATION

GN01 SYMBOLS AND ABBREVIATIONS 1
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 GN03 SYMBOLS AND ABBREVIATIONS 3
 GN04 SYMBOLS AND ABBREVIATIONS 4
 GN05 SCHEMATIC SYMBOLS
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 GI-02 CONTROL SYSTEM BLOCK DIAGRAM 2
 GI-03 CONTROL SYSTEM BLOCK DIAGRAM 3
 GI-04 CONTROL SYSTEM BLOCK DIAGRAM 4
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 IS-03 WAS PUMPS CONTROL SCHEMATIC
 IS-04 SHB SUPPLY AND EXHAUST FANS CONTROL SCHEMATIC
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 PI-1401 RAS/WAS BUILDING NO. 1 RAS PUMP 1401
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 PI-1406 RAS/WAS BUILDING NO. 1 RAS PUMP 1406
 PI-1500 PCM-1500
 PI-1501 RAS/WAS BUILDING NO. 2 RAS PUMP 1501
 PI-1502 RAS/WAS BUILDING NO. 2 RAS PUMP 1502
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 P1-1601 RAS/WAS BUILDING NO. 1 WAS PUMPS 1601 AND 1602
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 PI-1622 RAS/WAS BUILDING NO. 2 WAS PUMPS 1622 AND 1623
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 PI-HW-3 HEADWORKS LIFT PUMP NO. 3
 PI-HW-4 HEADWORKS LIFT PUMP NO. 4
 PI-HW-5 HEADWORKS LIFT PUMP NO. 5
 PI-HW-6 HEADWORKS LIFT PUMP NO. 6
 PI-HW-7 HEADWORKS LIFT PUMP NO. 7
 PI-HW-8 HEADWORKS WET WELL

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ELECTRICAL PLAN SYMBOLS

ELECTRICAL ONE-LINE SYMBOLS

IDENTIFICATION SYMBOLS

- EQUIP #** EQUIPMENT AND INSTRUMENT IDENTIFICATION
- EQUIPMENT/INSTRUMENT LOCATOR
 - LUMINAIRE IDENTIFICATION
 - a = CIRCUIT DESIGNATION
 - b = DEVICE SWITCHED FROM
 - c = MOUNTING HEIGHT IN FEET TO BOTTOM OF FIXTURE
 - X = LUMINAIRE TYPE, REFER TO THE LUMINAIRE SCHEDULE
 - CONDUIT IDENTIFICATION
 - XXXX = CONDUIT NUMBER, REFER TO CONDUIT SCHEDULE
 - UNLESS OTHERWISE NOTED, GROUPED CONDUITS ARE LABELED LEFT TO RIGHT OR TOP TO BOTTOM.
 - INDICATES KEYNOTE X (PERTAINS ONLY TO SHEET WHERE NOTE IS FOUND)
 - DISCONNECT SWITCH
 - A = TYPE, REFER TO DISCONNECT SCHEDULE
 - CAMERA

LUMINAIRES

- LINEAR FIXTURE
- 2' X 2' LAY-IN TROFFER
- 2' X 4' LAY-IN TROFFER
- LUMINAIRE POLE MOUNTED
- GO/NO-GO PANEL - STROBE AND HORN
 - R = RED LIGHT
 - G = GREEN LIGHT
 - H = HORN
- GO/NO-GO PANEL - SOLID
- GO/NO-GO PANEL - STROBE
- LUMINAIRE, EMERGENCY BATTERY-POWERED
- LUMINAIRE, EMERGENCY/EXIT BATTERY-POWERED
- LUMINAIRE, EMERGENCY BATTERY-POWERED REMOTE
- LUMINAIRE, SURFACE OR PENDANT MOUNTED
- LUMINAIRE, WALL MOUNTED
- LUMINAIRE, FLOOD/SPOT
- LUMINAIRE, EXIT ONE OR TWO FACES AS INDICATED. ARROW POINTS IN DIRECTION OF EGRESS.

SWITCHES/RECEPTACLES

- SINGLE POLE SWITCH**
- a = CIRCUIT DESIGNATION
 - b = DEVICE SWITCHED DESIGNATION
 - c = TYPE
 - 2 = DOUBLE POLE SWITCH
 - 3 = THREE-WAY SWITCH
 - 3P = THREE POSITION SWITCH
 - 4 = FOUR-WAY SWITCH
 - K = KEY OPERATED SWITCH
 - F = SWITCH AND FUSESTAT HOLDER
 - P = SWITCH AND PILOT LIGHT
 - T = THERMOSTAT
 - D = DIMMER SWITCH
 - L = LOW VOLTAGE LIGHT SWITCH
 - M = MANUAL MOTOR STARTER
 - N = NETWORKED SINGLE OR MULTIPLE SWITCH LOCATIONS
- REFER TO ABBREVIATIONS LEGEND FOR ALL OTHER DESIGNATIONS.
- OCCUPANCY SENSOR**
- X REFERENCE LIGHTING CONTROL COMPONENT SCHEDULE
 - a = CIRCUIT DESIGNATION
 - b = DEVICE SWITCHED DESIGNATION
 - c = MOUNTING HEIGHT IN FEET TO BOTTOM OF SENSOR
- PHOTOCELL**
- SWITCH AND SINGLE RECEPTACLE
 - a = CIRCUIT DESIGNATION
 - b = DEVICE TYPE DESIGNATION
 - DUPLEX RECEPTACLE
 - QUADRUPLUX RECEPTACLE
 - IN FLOOR DUPLEX RECEPTACLE
 - IN FLOOR QUADRUPLUX RECEPTACLE
 - DUPLEX RECEPTACLE w/SPLIT WIRE
 - DEDICATED RECEPTACLE
 - SPECIAL PURPOSE RECEPTACLE
 - WELDING RECEPTACLE
 - a = CIRCUIT DESIGNATION
 - b = DISCONNECT TYPE
 - TWIST LOCK RECEPTACLE
 - a = AMP RATING
 - TELEPHONE OUTLET
 - a = CIRCUIT DESIGNATION
 - b = MOUNTING HEIGHT
 - DATA COMMUNICATIONS OUTLET
 - a = CIRCUIT DESIGNATION
 - b = MOUNTING HEIGHT

FIRE ALARM

- SMOKE DETECTOR
 - a = TYPE
 - I = IONIZATION
 - P = PHOTOELECTRIC
 - d = DUCT DETECTOR
- FIRE ALARM CONTROL PANEL
- FIRE ALARM PULL STATION
- FIRE ALARM HORN/STROBE COMBINATION
- FIRE ALARM STROBE
- FIRE SPRINKLER
 - F = FLOW SWITCH
 - T = TAMPER SWITCH

RACEWAY

- EXPOSED CONDUIT
- BREAK AND CONTINUATION IN CONDUIT RUN
- EXPOSED CONDUIT HIDDEN BEHIND WALLS, FLOORS OR OTHER STRUCTURES
- UNDERGROUND CONDUIT, DIRECT BURIED OR IN DUCT BANK
- CONDUIT IN SLAB
- CONDUIT VERTICAL CHANGE IN DIRECTION
- CONDUIT CAP
- JUNCTION BOX
- CONDUIT SEAL
- CONDUIT TEE
- DUCT BANK
 - APPROXIMATE DIMENSIONS SHOWN ON DUCT BANK SECTIONS

CONDUIT SIZE AND CONDUCTORS

INDIVIDUAL CONDUCTORS

- W"C-(3-X (Ø), 1-Y (N) & 1-Z (G))
- W"C (WHERE INDICATED): W = CONDUIT TRADE SIZE
- 3-X (Ø):
- 3 = QUANTITY
 - X = SIZE OF CONDUCTORS
 - (Ø) = DESIGNATES PHASE CONDUCTORS
- 1-Y (N) (WHERE INDICATED):
- 1 = QUANTITY
 - Y = SIZE OF CONDUCTORS
 - (N) = DESIGNATES NEUTRAL CONDUCTORS
- 1-Z (G) (WHERE INDICATED):
- 1 = QUANTITY
 - Z = SIZE OF CONDUCTORS
 - (G) = DESIGNATES GROUND CONDUCTORS
- U(3-X (Ø) & 1-X (G))
- U = NUMBER OF PARALLEL RUNS

VFD CONDUCTORS

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

MULTI CONDUCTOR CABLES

- K/2/C#16S
- K (WHERE INDICATED) = NUMBER OF PAIRS
 - 2/C#16S = TWO CONDUCTOR, 16 GAUGE, TWISTED SHIELDED PAIR
- K/3/C#16S
- K (WHERE INDICATED) = NUMBER OF TRIPLETS
 - 3/C#16S = THREE CONDUCTOR, 16 GAUGE, TWISTED SHIELDED TRIPLETS

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

FIBER OPTIC CABLES

- FO/N
- N = NUMBER OF INDIVIDUAL FIBERS

GROUNDING

- UNDERGROUND GROUND CABLE #4/0 SDBC UNLESS OTHERWISE NOTED
- GROUND ROD
- GROUND ROD AND GROUND WELL

MEDIUM VOLTAGE

- CIRCUIT BREAKER, MEDIUM VOLTAGE
 - a = CIRCUIT BREAKER NUMBER
 - b = FRAME SIZE
- ANSI RELAY DEVICE
 - a = ANSI DEVICE FUNCTION
 - b = QUANTITY
- MEDIUM VOLTAGE DISCONNECT SWITCH NON-FUSED CUT OUT
- MEDIUM VOLTAGE DISCONNECTING FUSE SINGLE FUSE CUT OUT
- MEDIUM VOLTAGE DISCONNECTING FUSE DOUBLE FUSE CUT OUT
- MEDIUM VOLTAGE SINGLE FUSE
- MEDIUM VOLTAGE DOUBLE FUSE
- MEDIUM VOLTAGE LIVE FRONT TERMINATOR
- MEDIUM VOLTAGE ELBOW
- MEDIUM VOLTAGE TEE
- MEDIUM VOLTAGE CONTACTOR
- MEDIUM VOLTAGE STARTER
- MOV-ELBOW ARRESTER

LOW VOLTAGE

- LOW VOLTAGE CIRCUIT BREAKER
 - a = TYPE
 - MCP = MOTOR CIRCUIT PROTECTOR
 - TM = THERMAL MAGNETIC
 - SS = SOLID STATE
 - b = FRAME SIZE (MANUFACTURER TO DETERMINE FRAME SIZE UNLESS INDICATED)
 - c = NUMBER OF POLES
 - d = TRIP SETTING (AT = AMP TRIP) (AC = MCP CONTINUOUS RATING)
 - e = DESIGNATION
 - f = INTERRUPTING RATING
- LOW VOLTAGE CIRCUIT BREAKER AUXILIARY OPERATOR
 - * = S = SHUNT TRIP
 - G = GROUND FAULT INTERRUPTER
 - V = SOLENOID KEY RELEASE
- DISCONNECT SWITCH
 - A = TYPE, REFER TO DISCONNECT SCHEDULE
- FUSED DISCONNECT SWITCH
 - B = TYPE, REFER TO DISCONNECT SCHEDULE
 - b = FUSE RATING
- FUSE
- COMBINATION STARTER WITH CONTROL POWER TRANSFORMER
 - a = CIRCUIT BREAKER DISCONNECT, TYPE AS NOTED
 - b = STARTER TYPE
 - REFER TO THE SPECIFICATIONS FOR STARTER DEFINITIONS.
 - c = NEMA STARTER SIZE
 - d = OVERLOAD
- MOTOR STARTER/DRIVES:
 - a = DEVICE TYPE
 - VFD-6 = 6-PULSE VFD
 - VFD-18 = 18-PULSE VFD
 - VFD-RH = REDUCED HARMONIC VFD (18-PULSE OR ACTIVE FRONT END AS DEFINED IN THE SPECIFICATIONS)
 - RVSS = REDUCED VOLTAGE SOLID STATE STARTER
 - RVAT = REDUCED VOLTAGE AUTO TRANSFORMER
 - a/B = DEVICE WITH BYPASS STARTER. REFER TO THE SPECIFICATIONS
- b = INPUT OPTIONS
 - LL = LINE REACTOR
 - PHF = PASSIVE HARMONIC FILTER
- c = OUTPUT OPTIONS
 - LR = LOAD REACTOR
 - DV/DT = Dv/dt FILTER
 - SWF = SINE WAVE FILTER
- EQUIPMENT ENCLOSURE

MISCELLANEOUS

- MOTOR
 - HP = HORSEPOWER RATING
 - FULL LOAD AMPS AS NOTED
- PACKAGED EQUIPMENT
 - LOAD RATING AS INDICATED
 - a = RATED LOAD
 - b = UNIT(HP, KW, KVA) AS INDICATED
- TRANSFORMER
 - a = DEVICE I.D.
 - b = KVA RATING
 - c = NUMBER OF PHASES
 - d = PRIMARY VOLTAGE
 - e = SECONDARY VOLTAGE
 - f,g = CONNECTION TYPE SYMBOL
 - h = IMPEDANCE
- GROUNDING WYE CONNECTION
- DELTA CONNECTION
- ENGINE-GENERATOR RATINGS AS INDICATED ON THE DRAWINGS
 - a = KVA/KW
 - b = VOLTAGE/CONNECTION
 - c = PHASE
 - d = WIRE
 - e = PF
- CURRENT TRANSFORMER WITH SHORTING TERMINAL BLOCK
 - a = QUANTITY
 - b = RATIO
 - c,d = CONNECTION TYPE SYMBOL
- POTENTIAL TRANSFORMER
 - a = QUANTITY
 - b = RATIO
 - c,d = CONNECTION TYPE SYMBOL
- SOLID STATE MULTIFUNCTION METER
- AMPERE TEST POINT
- VOLTAGE TEST POINT
- UTILITY METER
- LIGHTNING ARRESTER
- SURGE PROTECTIVE DEVICE
- DRAWOUT CONNECTION
- GROUND
- CAPACITOR
- BATTERY
- KIRK KEY INTERLOCK
- LOAD BANK

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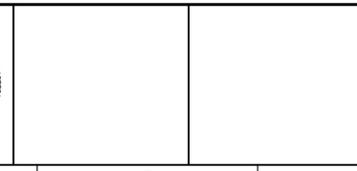
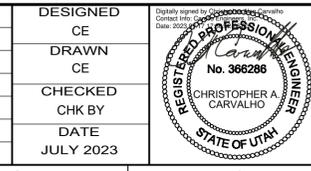
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ABBREVIATIONS					POWER DEVICE FUNCTION NUMBERS							
A	AMP	J	JUNCTION BOX	TACH	TACHOMETER	1	MASTER ELEMENT	83	AUTOMATIC SELECTIVE CONTROL OR TRANSFER RELAY			
ABS	ABSOLUTE	K	KEY INTERLOCK	TB - X	TERMINAL BLOCK - UNIT X	2	TIME-DELAY STARTING OR CLOSING RELAY	84	OPERATING MECHANISM			
AC	ALTERNATING CURRENT	KA	KILOAMP	TC	THERMOCOUPLE / TIME CLOCK / TRAY CABLE	3	CHECKING OR INTERLOCKING RELAY	85	PILOT COMMUNICATIONS, CARRIER OR PILOT-WIRE RELAY			
ACK	ACKNOWLEDGE	KV	KILOVOLT	TD	TEMPERATURE DETECTOR RELAY	4	MASTER CONTACTOR	86	LOCKOUT RELAY			
ACTR	ACTUATOR	KVA	KILOVOLT AMPERE	TE	TOTALLY ENCLOSED	5	STOPPING DEVICE	87	DIFFERENTIAL PROTECTIVE RELAY			
AF	AMP FRAME	KVAR	KILOVAR (REACTANCE)	TEFC	TOTALLY ENCLOSED FAN COOLED	6	STARTING CIRCUIT BREAKER	88	AUXILIARY MOTOR OR MOTOR GENERATOR			
AFC	AUTOMATIC FREQUENCY CONTROL	KW	KILOWATT	TENV	TOTALLY ENCLOSED NON-VENTILATED	7	ANODE CIRCUIT BREAKER	89	LINE SWITCH			
AIC	AMP INTERRUPTING CAPACITY	KWH	KILOWATT HOUR	TERMINAL	TERMINAL	8	CONTROL POWER DISCONNECTING DEVICE	90	REGULATING DEVICE			
AM	AMMETER	L	LONG-TIME	TJB	TERMINAL JUNCTION BOX	9	REVERSING DEVICE	91	VOLTAGE DIRECTIONAL RELAY			
ANN	ANNUNCIATOR	L-B	LINE-BUS	TM	THERMAL MAGNETIC	10	UNIT SEQUENCE SWITCH	92	VOLTAGE AND POWER DIRECTIONAL RELAY			
ANT	ANTENNA	L-G	LINE-GROUND	TP	TWISTED PAIR	11	MULTIFUNCTION DEVICE	93	FIELD-CHANGING CONTACTOR			
APU	AUXILIARY POWER UNIT	LA	LIGHTNING ARRESTOR	TS	TEMPERATURE SWITCH	12	OVER-SPEED DEVICE	94	TRIPPING OR TRIP-FREE RELAY			
ARM	ARMORED CABLE	LBL	LABEL	TS1W	TWO SPEED CONSEQUENT POLE, ONE WINDING	13	SYNCHRONOUS-SPEED DEVICE					
AS	AMMETER SWITCH	LC	LIGHTING CONTACT OR	TS2W	TWO SPEED SEPARATE WINDING	14	UNDER-SPEED DEVICE					
ASYM	ASYMMETRICAL	LCP - X	LOCAL CONTROL PANEL NO. X	TSTAT	THERMOSTAT	15	SPEED OR FREQUENCY MATCHING DEVICE					
AT	AMP TRIP	LL	LEAD-LAG LOAD REACTOR	UHF	ULTRA HIGH FREQUENCY	16	DATA COMMUNICATIONS DEVICE					
ATO	AUTOMATIC THROW OVER	LLP	LEAD-POLE	UNG	UNGROUNDING	17	SHUNTING OR DISCHARGE SWITCH					
ATP	AMMETER TEST POINT	LP - X	LIGHTING PANEL NO. X	UPS	UNINTERRUPTIBLE POWER SUPPLY	18	ACCELERATING OR DECELERATING DEVICE					
ATS	AUTOMATIC TRANSFER SWITCH	LTV	LOW VOLTAGE	UVR	UNDER VOLTAGE RELAY	19	STARTING-TO-RUNNING TRANSITION CONTACTOR					
AUTO XFMR	AUTOMATIC TRANSFORMER	LVL	LEVEL	V	VOLT	20	ELECTRICALLY OPERATED VALVE					
AUX	AUXILIARY	M-X	MOTOR CONTROLLER NO. X	VA	VOLT AMPERE	21	DISTANCE RELAY					
AWG	AMERICAN WIRE GAGE	MA	MILLIAMPERE	VAR	VARMETER	22	EQUALIZER CIRCUIT BREAKER					
B	BELL	MCA	MOTOR CIRCUIT AMPS	VCP	VENDOR CONTROL PANEL	23	TEMPERATURE CONTROL DEVICE					
BAT	BATTERY	MCC - X	MOTOR CONTROL CENTER NO. X	VFD	VARIABLE FREQUENCY DRIVE	24	VOLTS PER HERTZ RELAY					
BFG	BELOW FINISHED GRADE	MCP	MOTOR CIRCUIT PROTECTOR	VHF	VERY HIGH FREQUENCY	25	SYNCHRONIZING OR SYNCHRONISM-CHECK DEVICE					
BHP	BRAKE HORSEPOWER	MH	MANHOLE / MOUNTING HEIGHT	VM	VOLTMETER	26	APPARATUS THERMAL DEVICE					
BKR	BREAKER	MLO	MAIN LUGS ONLY	VP	VAPORPROOF	27	UNDERVOLTAGE RELAY					
BRF	BELOW RAISED FLOOR	MOD	MOTOR OPERATED DAMPER	VR	VOLTAGE REGULATOR	27N	GROUND FAULT UNDERVOLTAGE RELAY					
C	CONDUIT / CONTINUOUS LOAD	MOV	METAL OXIDE VARISTOR	VS	VOLTAGE SWITCH	28	FLAME DETECTOR					
CB	CIRCUIT BREAKER	MPR	MOTOR PROTECTION RELAY	VT	VOLTAGE TRANSFORMER	29	ISOLATING CONTACTOR					
CCTV	CLOSED CIRCUIT TELEVISION	MSP	MOTOR STARTER NO. X	VTP	VOLTAGE TEST POINT	30	ANNUNCIATOR RELAY					
CCW	COUNTER CLOCKWISE	MTO	MANUAL THROW OVER	W	WATT / WEST	31	SEPARATE EXCITATION DEVICE					
CKT	CIRCUIT	MTR-X	MOTOR NO. X	WT	WATER TIGHT	32	DIRECTIONAL POWER RELAY					
COAX	COAXIAL CABLE	MTS	MANUAL TRANSFER SWITCH	WP	WEATHER PROOF	33	POSITION SWITCH					
COM	COMMON	MV	MEGAVOLT	XFMR	TRANSFORMER	34	MASTER SEQUENCE DEVICE					
COMM	COMMUNICATION	MVA	MEGAVOLT-AMPERES			35	BRUSH-OPERATING OR SLIP-RING SHORT-CIRCUITING DEVICE					
CPT	CONTROL POWER TRANSFORMER	MVS	MEDIUM VOLTAGE SWITCH			36	POLARITY DEVICE					
CR	CONTROLLED RECEPTACLE	MW	MEGAWATT			37	UNDERCURRENT OR UNDERPOWER RELAY					
CS	CONTROL SWITCH	N	NEUTRAL			38	BEARING PROTECTIVE DEVICE					
CT	CURRENT TRANSFORMER	NC	NORMALLY CLOSED			39	MECHANICAL CONDITION MONITOR					
CV	CONTROL VALVE	NEC	NATIONAL ELECTRICAL CODE			40	FIELD RELAY					
CW	CLOCKWISE / COOL WHITE	NFC	NONMETALLIC FLEXIBLE CONDUIT			41	FIELD CIRCUIT BREAKER					
DC	DIRECT CURRENT	NL	NIGHT LIGHT			42	RUNNING CIRCUIT BREAKER					
DCS	DISTRIBUTED CONTROL SYSTEM	NO	NORMALLY OPEN			43	MANUAL TRANSFER OR SELECTOR DEVICE					
DCU - X	DISTRIBUTED CONTROL UNIT NO. X	NP	NAMEPLATE			44	UNIT SEQUENCE STARTING RELAY					
DEMO	DEMOLITION	O	OPEN OR OPENED			45	ABNORMAL ATMOSPHERIC CONDITION MONITOR					
DISC	DISCONNECT SWITCH	OH	OVERHEAD			46	REVERSE-PHASE OR BALANCE CURRENT RELAY					
DM	DEMAND METER	OL	OVERLOAD RELAY			47	PHASE-BALANCE OR PHASE-SEQUENCE VOLTAGE RELAY					
DPDT	DOUBLE POLE DOUBLE THROW	P	POLE			48	INCOMPLETE SEQUENCE RELAY					
DPST	DOUBLE POLE SINGLE THROW	PA	PUBLIC ADDRESS			49	MACHINE OR TRANSFORMER THERMAL RELAY					
DS	DOOR SWITCH	PB	PUSHBUTTON / PULL BOX			50	INSTANTANEOUS OVERCURRENT RELAY					
E/G	EMERGENCY GENERATOR	PCS	PVC COATED GALVANIZED STEEL CONDUIT			51	AC TIME OVERCURRENT RELAY					
EM	EMERGENCY	PCM	PROCESS CONTROL MODULE			52	AC CIRCUIT BREAKER					
EMT	ELECTRICAL METALLIC TUBING	PE	PHOTOCELL			53	FIELD EXCITATION RELAY					
ENCL	ENCLOSURE	PF	POWER FACTOR			54	TURNING GEAR ENGAGING DEVICE					
ENG	ENGINE	PFCC	POWER FACTOR CORRECTION CAPACITOR			55	POWER FACTOR RELAY					
ENT	ELECTRICAL NON-METALLIC TUBING	PFR	PHASE FAILURE RELAY			56	FIELD APPLICATION RELAY					
EP	EXPLOSION PROOF	PH	PHASE			57	SHORT-CIRCUITING OR GROUNDING DEVICE					
ETM	ELAPSED TIME METER	PNL	PANEL			58	RECTIFICATION FAILURE RELAY					
F	SUB-FED	PPX	POWER PANEL NO. X			59	OVERVOLTAGE RELAY					
FA	FIRE ALARM	PRI	PRIMARY			60	VOLTAGE OR CURRENT BALANCE RELAY					
FACP	FIRE ALARM CONTROL PANEL	PT	POTENTIAL TRANSFORMER			61	DENSITY SWITCH OR SENSOR					
FDR	FEEDER	PVC	POLYVINYL CHLORIDE RIGID PLASTIC CONDUIT			62	TIME-DELAY STOPPING OR OPENING RELAY					
FLA	FULL LOAD AMPS	PWR	POWER			63	PRESSURE SWITCH					
FLX	FLEXIBLE CONDUIT	RAC	RIGID ALUMINUM CONDUIT			64	GROUND DETECTOR RELAY					
FO	FIBER OPTIC	RECPT	RECEPTACLE			65	GOVERNOR					
FRC	FIBERGLASS RIGID CONDUIT	REV	REVERSE			66	NOTCHING OR JOGGING DEVICE					
FREQ	FREQUENCY	RF	RADIO FREQUENCY			67	AC DIRECTIONAL OVERCURRENT RELAY					
FU	FUSE	RMS	ROOT MEAN SQUARED			68	BLOCKING OR OUT OF STEP RELAY					
FU	SW FUSED SWITCH	RVAT	REDUCED VOLTAGE AUTO TRANSFORMER			69	PERMISSIVE CONTROL DEVICE					
FVNR	FULL VOLTAGE NON-REVERSING	RVNR	REDUCED VOLTAGE NON-REVERSING			70	RHEOSTAT					
FVR	FULL VOLTAGE REVERSING	RVSS	REDUCED VOLTAGE SOLID STATE			71	LIQUID LEVEL SWITCH					
FWD	FORWARD	S	SHIELD / SHORT-TIME			72	DC CIRCUIT BREAKER					
G	GROUND / EQUIPMENT GROUND / GROUND FAULT	SA	SURGE ARRESTER			73	LOAD-RESISTOR CONTACTOR					
GEN	GENERATOR	SC	SHORT CIRCUIT			74	ALARM RELAY					
GRC	GALVANIZED STEEL RIGID CONDUIT	SDBC	SOFT DRAWN BARE COPPER			75	POSITION CHANGING MECHANISM					
GFCI	GROUND FAULT CIRCUIT INTERRUPTER (RECEPTACLE)	SFL	SUB FEED LUGS			76	DC OVERCURRENT RELAY					
GFI	GROUND FAULT INTERRUPTER (BREAKER)	SLT	SEALTIGHT LIQUIDTIGHT FLEXIBLE CONDUIT			77	TELEMETERING DEVICE					
GFR	GROUND FAULT RELAY	SM	SURFACE MOUNTED			78	PHASE-ANGLE MEASURING RELAY					
H	HOT-LEG	SP	SINGLE POLE			79	AC RECLOSING RELAY					
HF	HIGH FREQUENCY	SPD	SURGE PROTECTIVE DEVICE			80	FLOW SWITCH					
HP	HORSEPOWER	SPDT	SINGLE POLE DOUBLE THROW			81	FREQUENCY RELAY					
HPS	HIGH PRESSURE SODIUM	SPST	SINGLE POLE SINGLE THROW			82	DC LOAD MEASURING RECLOSING RELAY					
HR	HOUR	SPKR	SPEAKER									
HSTAT	HUMIDISTAT	SS	SOLID STATE									
HV	HIGH VOLTAGE	STB	SHORTING TERMINAL BLOCK									
HVAC	HEATING/VENTILATION/AIR CONDITIONING	SW	SWITCH									
HZ	HERTZ	SWBD	SWITCHBOARD									
I	INSTANTANEOUS / INTERMITTENT LOAD	SWGR	SWITCHGEAR									
IC	INTERRUPTING CAPACITY	SYM	SYMMETRICAL									
IJB	INSTRUMENT JUNCTION BOX											
IMC	INTERMEDIATE METAL CONDUIT											
INST	INSTANTANEOUS											
INT	INTERLOCK											
INTERCOM	INTERCOMMUNICATION											

NOTES:
1. REFER TO SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL ABBREVIATIONS.

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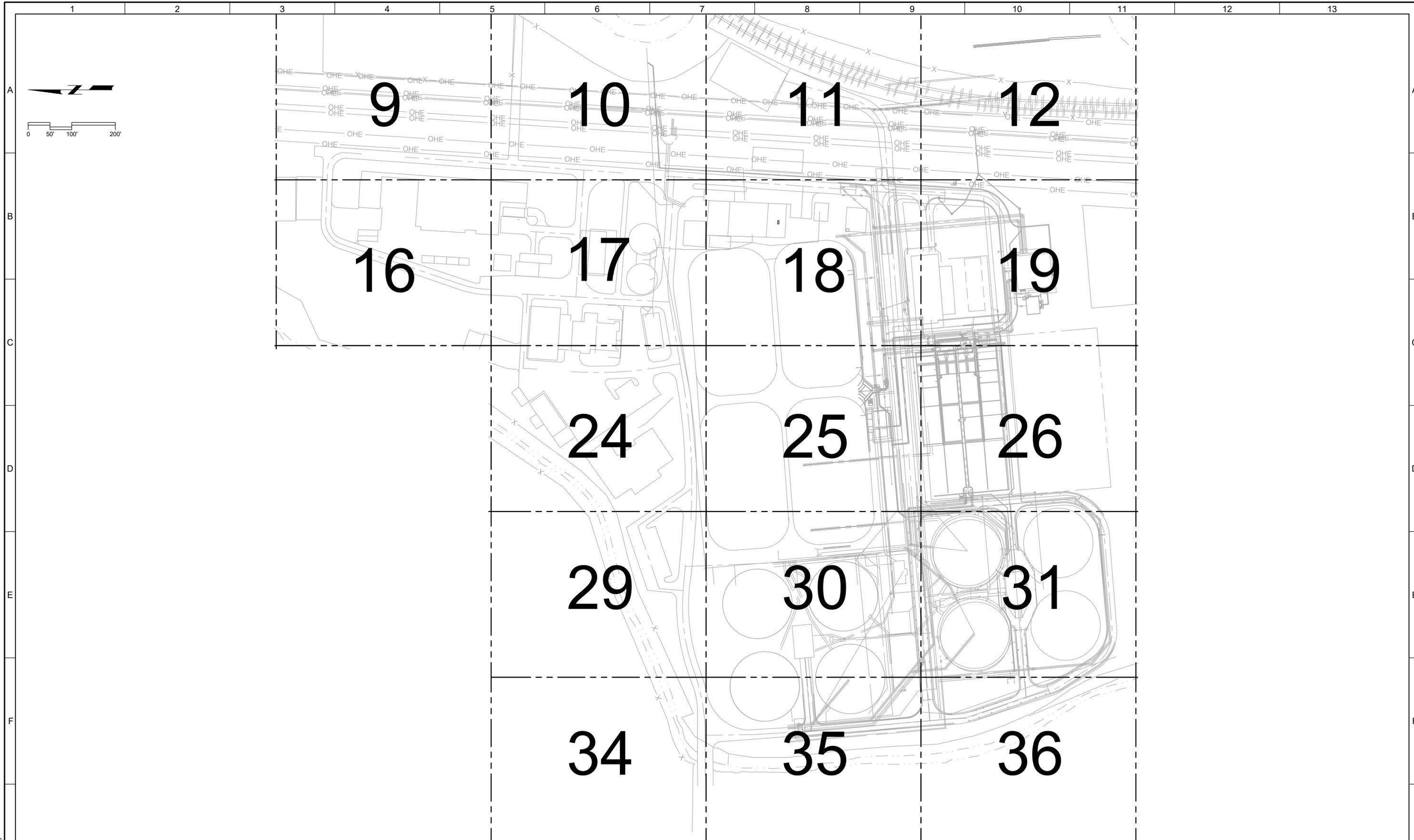
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DATE	JULY 2023
REV	DATE
BY	DESCRIPTION



7495 South 1300 West
West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
ELECTRICAL
ELECTRICAL ABBREVIATIONS

VERIFY SCALES	JOB NO. 201238
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. GE02
0 1"	SHEET NO. 5 OF 116
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	



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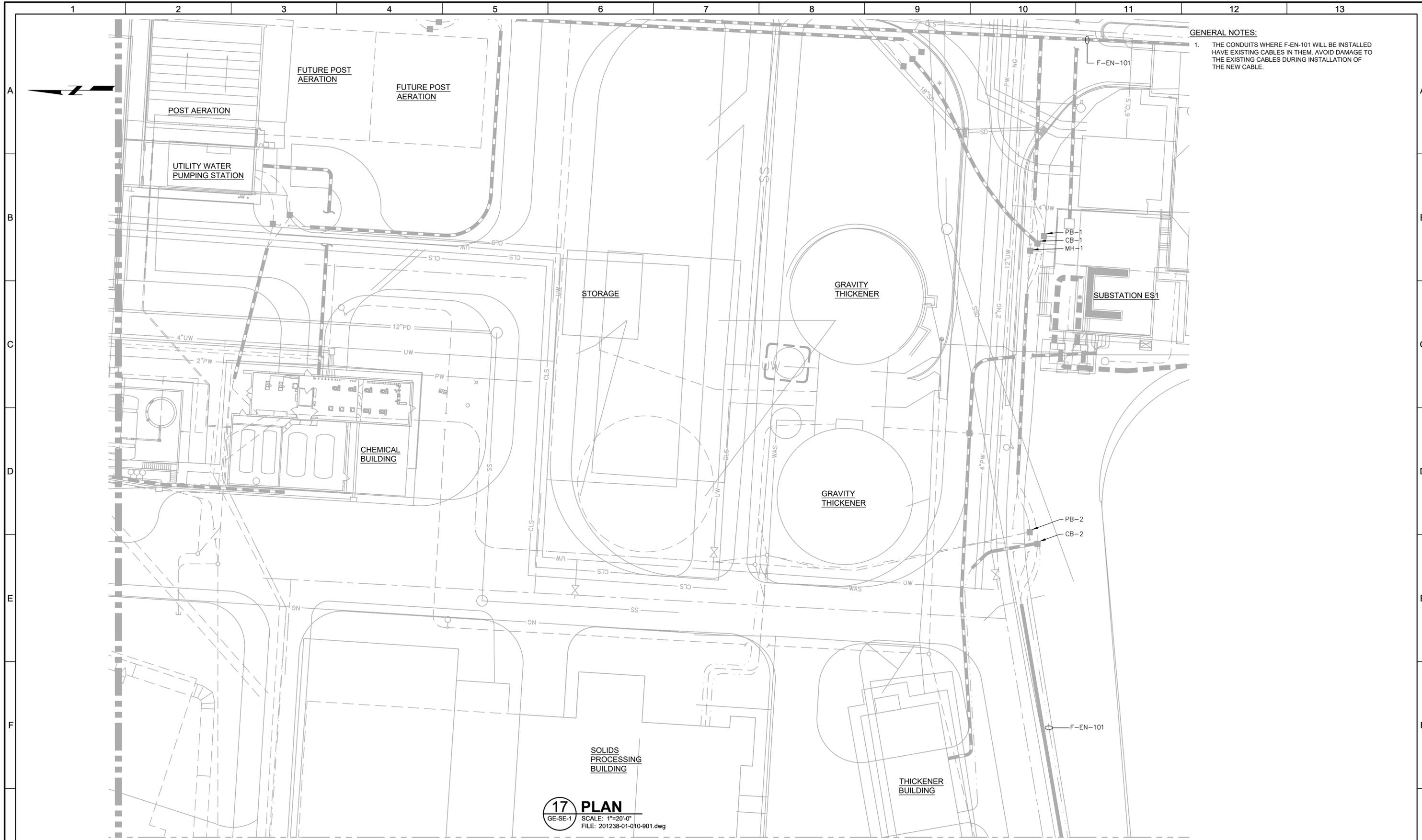


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West Jordan, Utah 84084

SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
ELECTRICAL
OVERALL SITE PLAN

VERIFY SCALES
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
201238
DRAWING NO.
GE-SE-1
SHEET NO.
6 OF 116



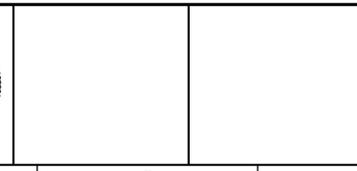
GENERAL NOTES:
 1. THE CONDUITS WHERE F-EN-101 WILL BE INSTALLED HAVE EXISTING CABLES IN THEM. AVOID DAMAGE TO THE EXISTING CABLES DURING INSTALLATION OF THE NEW CABLE.

17 PLAN
 GE-SE-1 SCALE: 1"=20'-0"
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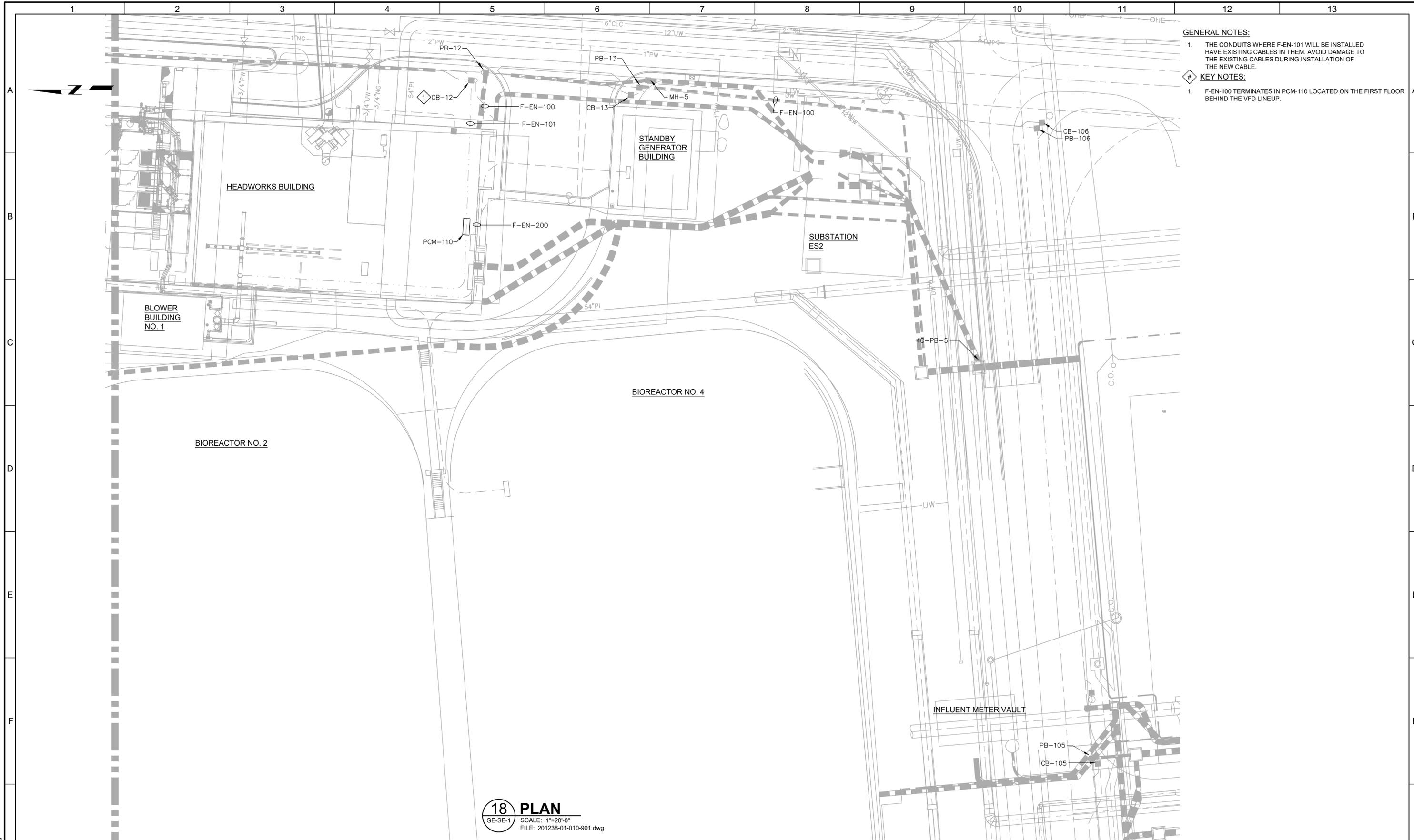
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SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
 ELECTRICAL
AREA 17 SITE PLAN

VERIFY SCALES
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 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
201238
 DRAWING NO.
GE-SE-17
 SHEET NO.
7 OF 116



- GENERAL NOTES:**
- THE CONDUITS WHERE F-EN-101 WILL BE INSTALLED HAVE EXISTING CABLES IN THEM. AVOID DAMAGE TO THE EXISTING CABLES DURING INSTALLATION OF THE NEW CABLE.
- KEY NOTES:**
- F-EN-100 TERMINATES IN PCM-110 LOCATED ON THE FIRST FLOOR BEHIND THE VFD LINEUP.

18 PLAN
 GE-SE-1 SCALE: 1"=20'-0"
 FILE: 201238-01-010-901.dwg

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SOUTH VALLEY WATER RECLAMATION

2023 VFD REPLACEMENT

ELECTRICAL

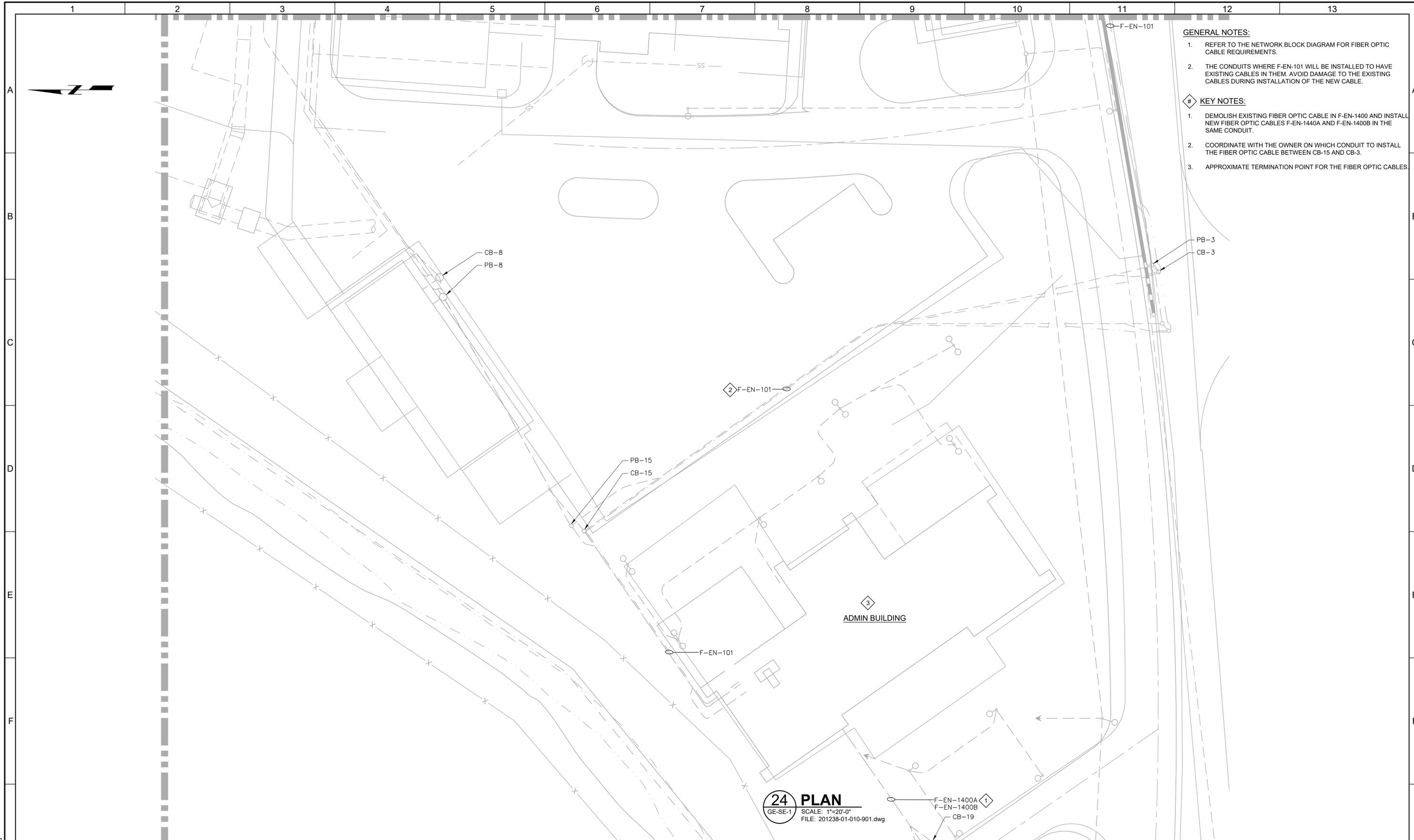
AREA 18 SITE PLAN

VERIFY SCALES
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 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
201238

DRAWING NO.
GE-SE-18

SHEET NO.
8 OF 116



- GENERAL NOTES:**
- REFER TO THE NETWORK BLOCK DIAGRAM FOR FIBER OPTIC CABLE REQUIREMENTS.
 - THE CONDUITS WHERE F-EN-101 WILL BE INSTALLED TO HAVE EXISTING CABLES IN THEM. AVOID DAMAGE TO THE EXISTING CABLES DURING INSTALLATION OF THE NEW CABLE.
- KEY NOTES:**
- DEMOLISH EXISTING FIBER OPTIC CABLE IN F-EN-1400 AND INSTALL NEW FIBER OPTIC CABLES F-EN-1440A AND F-EN-1400B IN THE SAME CONDUIT.
 - COORDINATE WITH THE OWNER ON WHICH CONDUIT TO INSTALL THE FIBER OPTIC CABLE BETWEEN CB-15 AND CB-3.
 - APPROXIMATE TERMINATION POINT FOR THE FIBER OPTIC CABLES

24 PLAN
 GE-SE-1 SCALE: 1"=20'-0"
 FILE: 201238-01-010-901.dwg

F-EN-1400A
 F-EN-1400B
 CB-19

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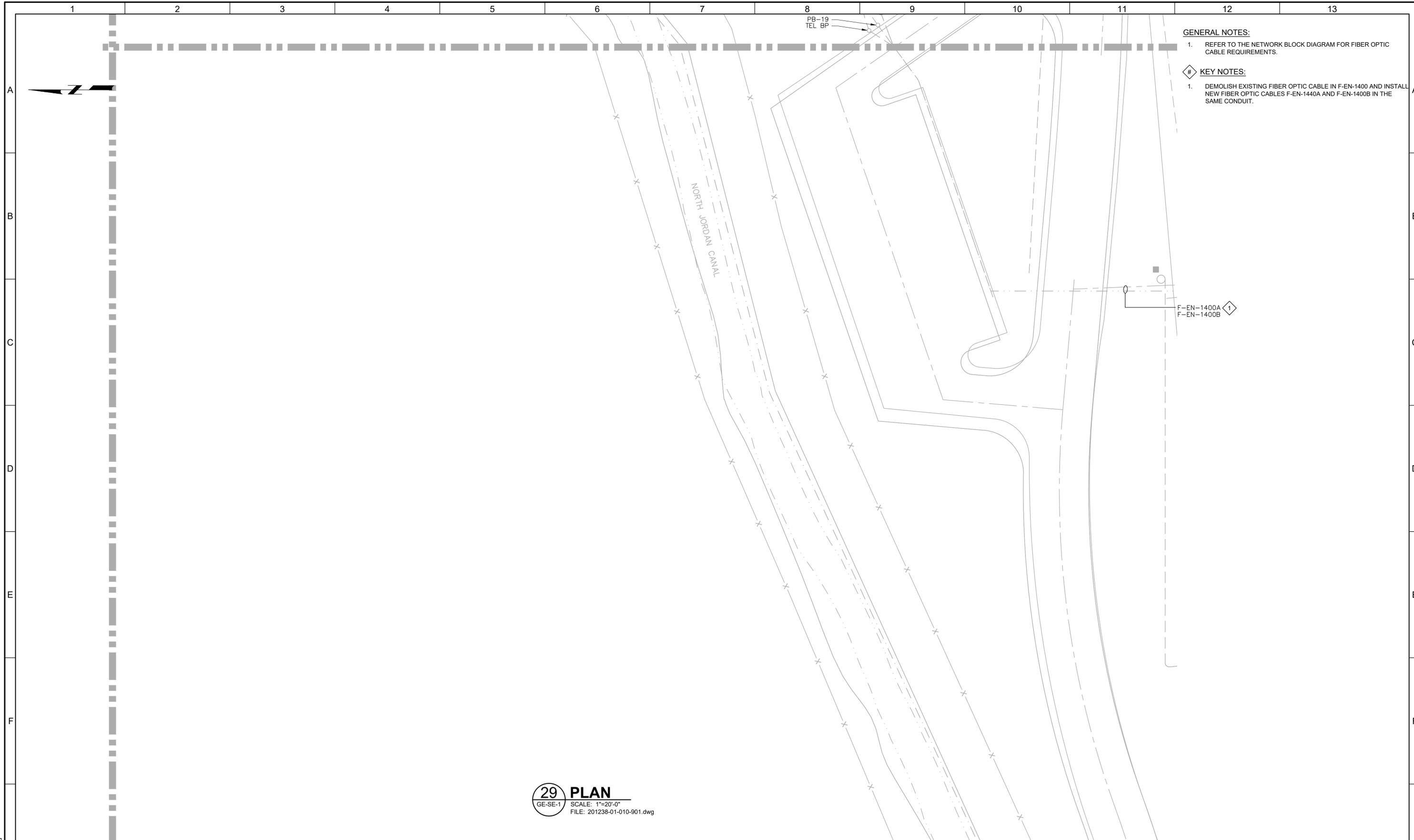
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SOUTH VALLEY WATER RECLAMATION		VERIFY SCALES	JOB NO. 201238
2023 VFD REPLACEMENT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
ELECTRICAL		0 1"	GE-SE-24
AREA 24 SITE PLAN		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
			9 OF 116



- GENERAL NOTES:**
- REFER TO THE NETWORK BLOCK DIAGRAM FOR FIBER OPTIC CABLE REQUIREMENTS.
- KEY NOTES:**
- DEMOLISH EXISTING FIBER OPTIC CABLE IN F-EN-1400 AND INSTALL NEW FIBER OPTIC CABLES F-EN-1440A AND F-EN-1400B IN THE SAME CONDUIT.

29 PLAN
 GE-SE-1 SCALE: 1"=20'-0"
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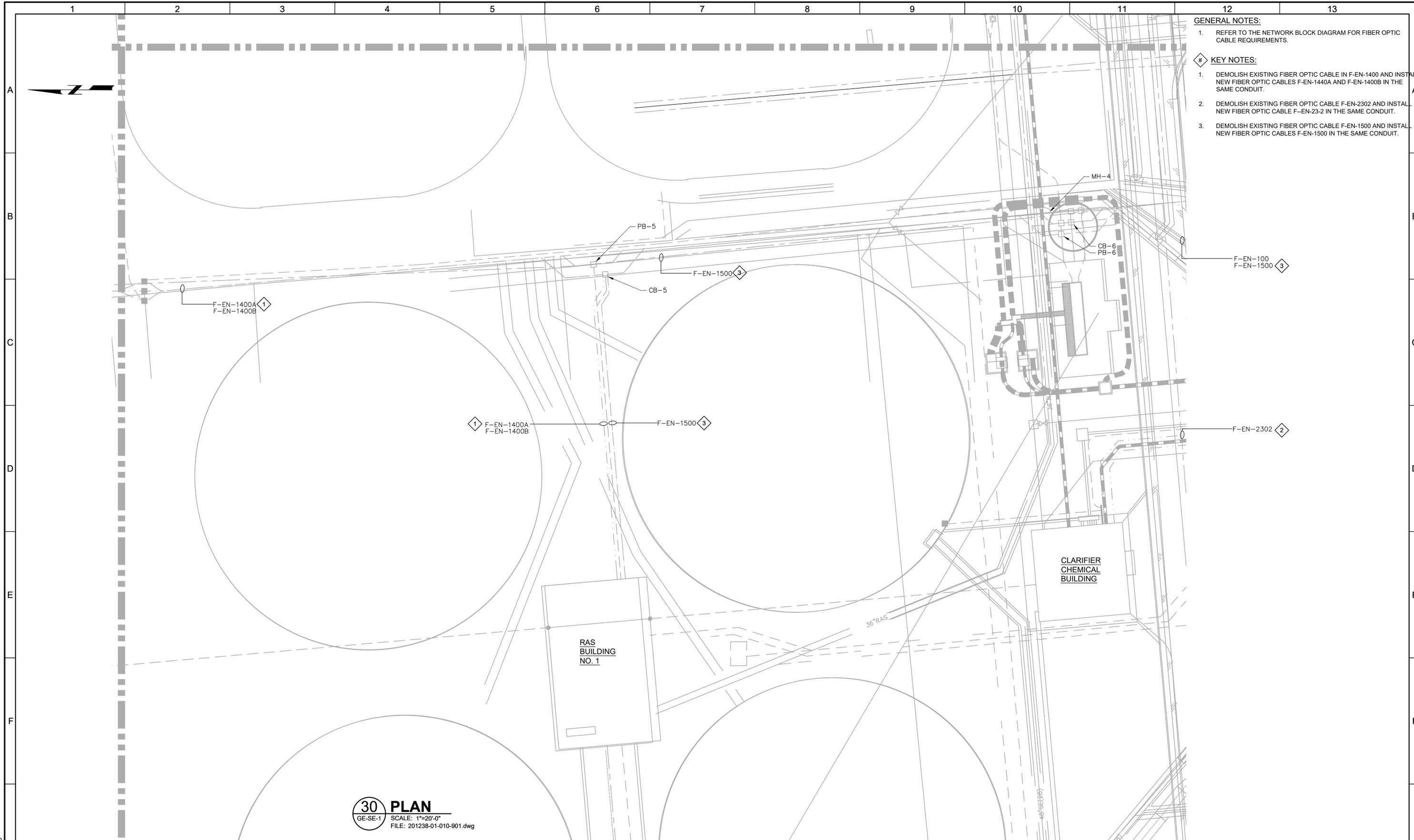
SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
 ELECTRICAL
AREA 29 SITE PLAN

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

JOB NO.
201238

DRAWING NO.
GE-SE-29

SHEET NO.
10 OF 116



- GENERAL NOTES:**
- REFER TO THE NETWORK BLOCK DIAGRAM FOR FIBER OPTIC CABLE REQUIREMENTS.
- KEY NOTES:**
- DEMOLISH EXISTING FIBER OPTIC CABLE IN F-EN-1400 AND INSTALL NEW FIBER OPTIC CABLES F-EN-1440A AND F-EN-1400B IN THE SAME CONDUIT.
 - DEMOLISH EXISTING FIBER OPTIC CABLE F-EN-2302 AND INSTALL NEW FIBER OPTIC CABLE F-EN-23-2 IN THE SAME CONDUIT.
 - DEMOLISH EXISTING FIBER OPTIC CABLE F-EN-1500 AND INSTALL NEW FIBER OPTIC CABLES F-EN-1500 IN THE SAME CONDUIT.

30 PLAN
 GE-SE-1 SCALE: 1"=20'-0"
 FILE: 201238-01-010-901.dwg

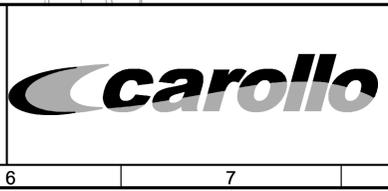
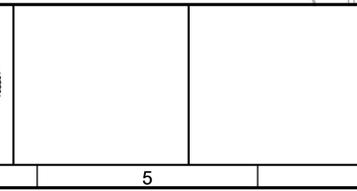
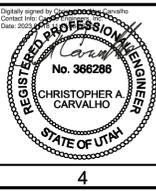
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SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
 ELECTRICAL
AREA 30 SITE PLAN

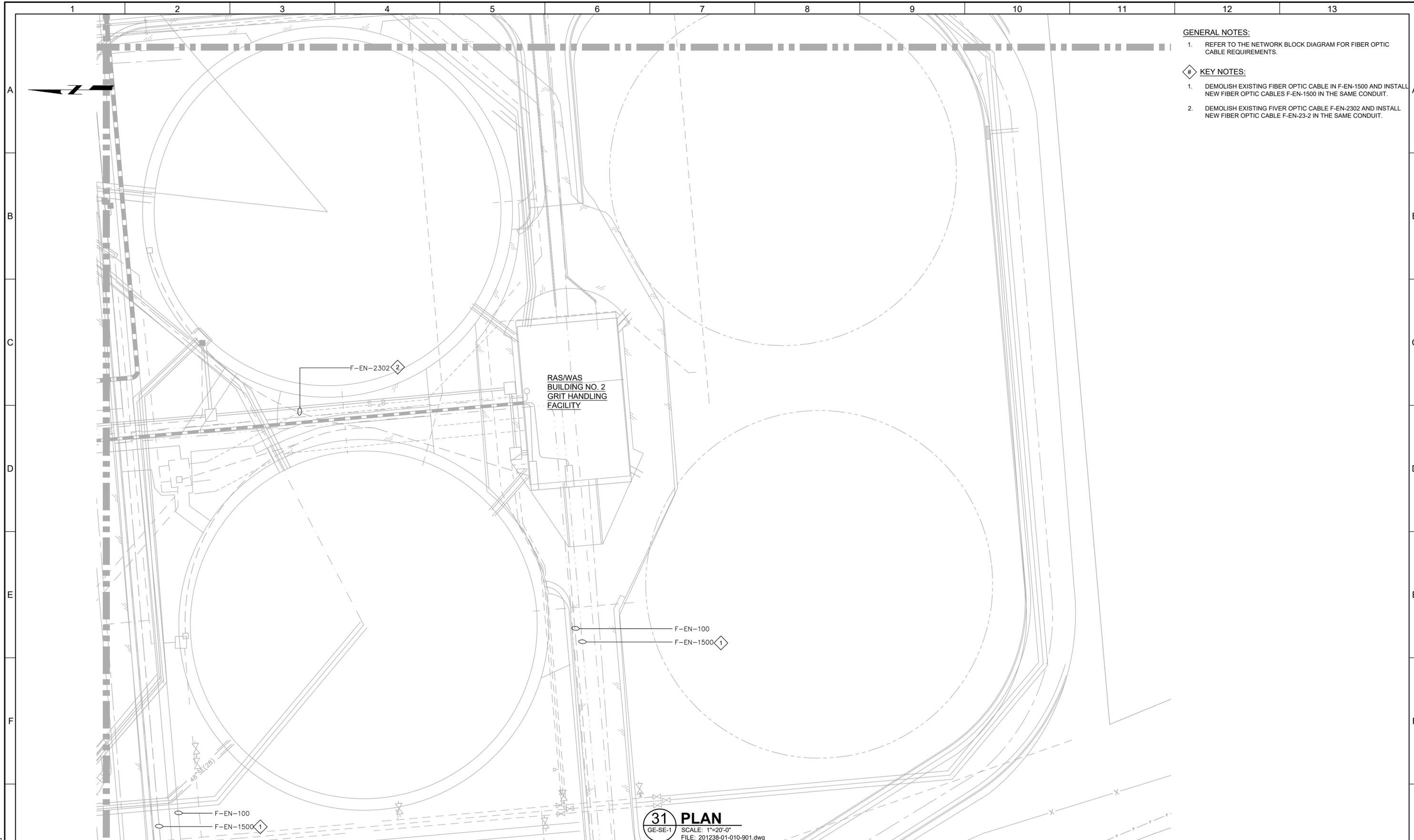
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JOB NO.
201238

DRAWING NO.
GE-SE-30

SHEET NO.
11 OF 118

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- GENERAL NOTES:**
- REFER TO THE NETWORK BLOCK DIAGRAM FOR FIBER OPTIC CABLE REQUIREMENTS.
- KEY NOTES:**
- DEMOLISH EXISTING FIBER OPTIC CABLE IN F-EN-1500 AND INSTALL NEW FIBER OPTIC CABLES F-EN-1500 IN THE SAME CONDUIT.
 - DEMOLISH EXISTING FIBER OPTIC CABLE F-EN-2302 AND INSTALL NEW FIBER OPTIC CABLE F-EN-23-2 IN THE SAME CONDUIT.

RAS/WAS
BUILDING NO. 2
GRIT HANDLING
FACILITY

31 PLAN
GE-SE-1 SCALE: 1"=20'-0"
FILE: 201238-01-010-901.dwg

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SOUTH VALLEY WATER RECLAMATION
2023 VFD REPLACEMENT
ELECTRICAL
AREA 31 SITE PLAN

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JOB NO.
201238
DRAWING NO.
GE-SE-31
SHEET NO.
12 OF 116