



6975 UNION PARK CENTER, #490 **MIDVALE, UTAH**

VACINITY MAP



AERIAL MAP

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| E-08-5001 E-08-7001 | ELECTRICAL DETAILS PANEL SCHEDULES |
| E-00-7001 | I ANLL OUIEDULES |

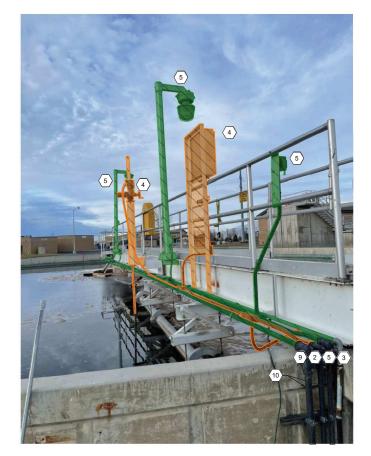
D

С



Salt Lake City, UT

| | | | D |
|---------------------------------------|---|--|---|
| | | | |
| | | | |
| | | BID SET | с |
| | | TSSD Clean Water | |
| | UT CI | EAST FACILITY ILITIES AND LARIFIERS | |
| REV | | ABILITATION PROJECT REVISIONS DESCRIPTION | - |
| | F | PROJECT REVISIONS | в |
| | F | PROJECT REVISIONS | в |
| | F | PROJECT REVISIONS | B |
| REV | DATE | REVISIONS DESCRIPTION DESCRIPTION | B |
| REV | DATE | PROJECT REVISIONS DESCRIPTION DESCRIPTION | B |
| REV DESIG | GNED: KED: | PROJECT REVISIONS DESCRIPTION | В |
| REV DESIG | F DATE □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | PROJECT REVISIONS DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION LINE IS 2 INCHES AT FULL SIZE R.GREVE T.EASTMAN S. O'CONNELL N. KUNZ T.LINDLEY FILENAME 157492.2 DESCRIPTION | В |
| REV DESII DRAV CHECC CHEC | | PROJECT REVISIONS DESCRIPTION | A |
| REV DESII DRAV CHECC CHEC | F DATE | PROJECT REVISIONS DESCRIPTION | |



EAST CLARIFIER E-1, VIEW NORTH



EAST CLARIFIER E-1, VIEW NORTHWEST



EAST CLARIFIER E-1, VIEW NORTHWEST



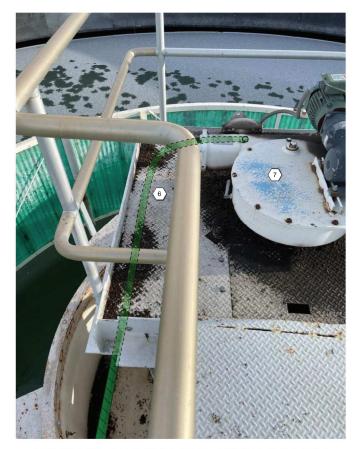
EAST CLARIFIER E-2, VIEW SOUTH

2



EAST CLARIFIER E-2, VIEW NORTH

3

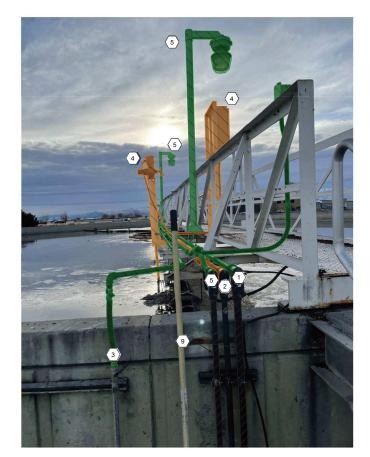


EAST CLARIFIER E-2, VIEW SOUTH

5

4

| GENERAL NOTES | | 1 |
|--|---|---|
| PHOTOS NOT TO SCALE. CONTRACTOR TO FIELD VERIFY REQUIRED MATERIALS, MATERIAL LENGTHS, DIMENSIONS, LOCATIONS, AND QUANTITIES. | Brown AND Caldwell | |
| | | |
| REMOVE EXISTING CLARIFIER DRIVE CONDUIT. ONCE WALWAY REPLACEMENT IS COMPLETE, REINSTALL NEW CONDUIT AND CORRESPONDING CABLE. BID ALTERNATE: REINSTALL EXISTING CONDUIT AND WIRING WITH DRIVE REBUILD. | Salt Lake City, UT | D |
| 2. REMOVE AND DISPOSE OF SCUM SKIMMER WIRING. | | |
| REMOVE AND DISPOSE OF SKIMMER SPRAY PIPING FROM THIS LOCATION. | | |
| REMOVE AND DISPOSE OF SKIMMER CONTROL PANELS, ACTUATORS, (CONDUIT FROM KEYNOTE 2 LOCATION), AND WIRING. | | |
| REMOVE LIGHT POSTS, LUMINARIES, LUMINAIRE SWITCHES AND CORRESPONDING CABLE, CONDUIT, AND REINSTALL ONCE WALKWAY REPLACEMENT IS COMPLETE, BID ALTERNATE: REMOVE AND REPLACE. | | |
| BID ALTERNATE: REMOVE DRIVE CONDUIT AND CORRESPONDING CABLE UNDER WALKWAY, AND REINSTALL WITH REBUILT DRIVES ONCE WALKWAY REPLACEMENT IS COMPLTE. | | |
| REMOVE AND THEN REPLACE CLARIFIER DRIVES, CORRSPONDING CONDUIT AND WIRING ONCE WALKWAY REPLACEMENT IS COMPLETE. CONTRACTOR TO COORDINATE WITH OWNER REGARDING SALVAGE OF EXISTING CLARIFIER DRIVES, BID ALTERNATE: REMOVE, REBUILD AND REINSTALL CLARIFIER DRIVES. | | |
| BID ALTERNATE: REMOVE AND REINSTALL CLARIFIER DRIVE CONTROLS WITH REBUILT DRIVES ONCE WALKWAY REPLACEMENT IS COMPLETE. | | |
| REMOVE EXISTING CLARIFIER DRIVE CONDUIT. ONCE WALWAY REPLACEMENT IS COMPLETE, REINSTALL NEW CONDUIT AND CORRESPONDING CABLE. BID ALTERNATE: REINSTALL EXISTING CONDUIT AND WIRING WITH DRIVE REBUILD. | BID SET | С |
| 10. DEMOLISH EXISTING CONDUIT FOR E-1 CLARIFIER REFEED. REPLACE WITH NEW CONDUIT. REPLACE PORTIONS OF THE SIDEWALK REMOVED FOR CONDUIT DEMOLITION AND REINSTALLATION. | 20 | |
| 11. REMOVE PROCESS CONTROL PANELS AND CORRESPONDING CABLE (I.E. YSI). REINSTALL ONCE WALKWAYS HAVE BEEN REPLACED. | TSSD Clean Water | |
| | TP-4 EAST FACILITY UTILITIES AND CLARIFIERS REHABILITATION PROJECT REVISIONS REV DATE DESCRIPTION LINE IS 2 INCHES AT FULL SIZE DESIGNED: N.ANDERSON DRAWN: B.NURSUWITO CHECKED: APPROVED: N.ANDERSON FILENAME ED-08-8001.DWG CONSULTANT PROJECT NUMBER 157492 TSSD PROJECT NUMBER 157492 ELECTRICAL | в |
| ELECTRICAL ITEMS TO BE REMOVED, DISPOSED ELECTRICAL ITEMS TO BE REMOVED AND REINSTALLED | EAST CLARIFIERS E-1, E-2 ELECTRICAL DEMOLITION DETAILS DRAWING NUMBER ED-08-8001 | A |



EAST CLARIFIER E-3, VIEW SOUTHWEST



EAST CLARIFIER E-3, VIEW EAST

3



П

| | | 1 | 2 | 3 | 4 5 | |
|---|------------------------------------|--|---|---|--|---|
| | F | RACEWAYS | DISTRIBUTION EQUIPMENT | LIGHTING CONTINUED | GROUNDING | GENERAL NO |
| | HH23 | MANHOLE (MH), HANDHOLE (HH), PULLBOX (PB) | APPROXIMATE SHAPE AND SCALE REPRESENTED WHERE POSSIBLE. HOWEVER, EXACT SIZE AND NUMBER OF SECTIONS IS ESTIMATED | EXIT LIGHTS: SURFACE ON CEILING | GROUND ROD | SYMBOLS AND ABBR SYMBOLS SHOWN HE SYMBOLS ARE ARRAI CONVENIENCE ONLY |
| | J ^{JB1900} | JUNCTION BOX. OPTIONAL IDENTIFIER | FLOOR-STANDING DISTRIBUTION ASSEMBLY, SUCH AS A SWITCHBOARD, TRANSFORMER, OR MOTOR CONTROL CENTER | WALL MOUNTED | GROUND ROD WITH GROUND WELL GROUND CONNECTION, SEE SPECIFICATION 26 05 06. | 3. IDENTIFICATIONS (ID SHOWN ASSOCIATED INFORMATION ARE S |
| D | тВ-1301 Т | TERMINAL BOX. OPTIONAL IDENTIFIER | EQUIPMENT DESIGNATION (REFER TO GENERAL SYMBOLS FOR SPECIFIC SYMBOL USE) | 3a CIRCUIT IDENTIFIER: WHEN SHOWN ADJACENT TO FIXTURE IDENTIFIES CIRCUIT NUMBER AND SWITCH. EXAMPLE: CIRCUIT 3, CONTROLLED BY | - — G — — GROUNDING CONDUCTOR | |
| | PBD-1900-1,3,5 | HOME RUN EXPOSED - SEE PANELBOARD, SWITCHBOARD, OR MCC SCHEDULE FOR CIRCUIT INFORMATION EXAMPLE: HOME TO PANELBOARD PBD-1900, | WALL-MOUNTED DISTRIBUTION ASSEMBLY, SUCH AS PANELBOARD, MOTOR STARTER PANEL, OR TERMINAL CABINET | SWITCH a PC PHOTO CELL | GROUND CONNECTION | |
| | <-x | CIRCUITS 1, 3, AND 5 HOME RUN CONCEALED - SEE PANELBOARD, SWITCHBOARD, OR MCC SCHEDULE FOR | EQUIPMENT DESIGNATION (REFER TO GENERAL SYMBOLS FOR SPECIFIC SYMBOL USE) | OS OCCUPANCY SENSOR | REINFORCEMENT IIGHTNING ROD/AIR TERMINAL | |
| | PBD-1900-1,3,5 | CIRCUIT INFORMATION. EXAMPLE: HOME TO PANELBOARD PBD-1900, CIRCUITS 1, 3, AND 5 | LIGHTING | WIRING DEVICES | MOTORS AND EQUIPMENT | TELEPHO |
| | | CABLE TRAY MODIFIERS: | FIXTURE IDENTIFIER: | SWITCHES: UNLESS OTHERWISE NOTED, ALL SWITCHES ARE | MOTOR STARTER, INDIVIDUAL. NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY | UNLESS OTHERV MOUNTED AT SA |
| | | CTS - 24VDC OR LESS CTC - 120V CONTROL CONDUCTORS CTP - 600V POWER CONDUCTORS | NUMBER OF FIXTURES (SHOWN ONLY WHEN REQUIRED FOR CLARITY) | WALL MOUNTED TOGGLE SWITCH, SINGLE POLE | COMBINATION MOTOR STARTER. NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY | ▲ _A |
| С | | CABLE #4/0 AND LARGER SHALL NOT BE STACKED VERTICALLY WHEN TWO TRAY MODIFIERS IDENTIFY A | FIXTURES OF THE SAME SHAPE WITHIN A ROOM OR AREA. | \$\$ GANGED SWITCHES IN COMMON BOX WITH COMMON WALL PLATE | DISCONNECT SWITCH, 60 NON-FUSED EXAMPLE: 60 AMP | Q |
| | | SINGLE TRAY, THE CONTRACTOR MAY USE DIVIDER OR INSTALL SEPARATE TRAYS (CTC/CTS) | PC $2/40$ 8'-6" $G = GROUND$ $S = SURFACE$ P = P D = D = M = M = M = M = M = M = M = M = | \$ CIRCUIT CONTROLLED: a, b, c, ETC. MAY BE COMBINED WITH CIRCUIT NUMBER. EXAMPLE: 1a, 4b, ETC | DISCONNECT SWITCH, FUSED EXAMPLE: 100 AMP, 2P, 80 AMP FUSES | |
| | | CABLE TRAY WITH COVER MODIFIER, AS ABOVE | MOUNTING HEIGHT, FLOOR TO BOTTOM OF FIXTURE UON. AHP= AS HIGH AS POSSIBLE. AD= ABOVE DOOR. | SUBSCRIPT MODIFIER INDICATES: 2 = DOUBLE POLE 3 = THREE WAY 4 = FOUR WAY | M MOTOR | |
| | P 05P1100 | RACEWAY IDENTIFIER | NUMBER OF LAMPS/LAMP WATTAGE, OR TOTAL FIXTURE WATTAGE | K = KEY OPERATED MC = MOMENTARY CONTACT, THREE POSITION MS = MANUAL (MOTOR) STARTER OR | (SV) SOLENOID VALVE | H ¹ / ₁ |
| | | RACEWAY EXPOSED MODIFIERS FOR RACEWAY TYPE: H - POWER (ABOVE 600V) P - POWER | CONTROL: PHOTOCELL, SWITCH, CONTACTOR LIGHTING FIXTURE SHAPES AND SCALE ARE REPRESENTED WHERE POSSIBLE. THE EXAMPLES SHOWN BELOW ARE | SWITCH WITH OVERLOADS R = RHEOSTAT (DIMMER, SPEED CONTROL) O = OCCUPANCY SWITCH | | CS (SD) |
| | | C - CONTROL S - SIGNAL D - DATA | TYPICAL APPLICATIONS | | WH WATER HEATER | R |
| в | | F - FIBER OPTIC PC - POWER AND CONTROL X - SPARE | SUSPENDED PENDANT MOUNTED FIXTURE SURFACE MOUNTED FIXTURE | | | |
| | 0 | RACEWAY CONCEALED | NS LIGHTING FIXTURES IDENTIFIED WITH AN 'NS' SHALL FROM NON-SWITCHED POWER SOURCE, APPLIES TO ANY FIXTURE TYPE | RECEPTACLE MODIFIERS: WP = WEATHER PROOF GFI = GROUND FAULT CIRCUIT INTERRUPTER | LOCAL CONTROL STATION | |
| | • | THE VIEWER RACEWAY TURNED DOWN | LIGHTING FIXTURE WITH EMERGENCY FUNCTION (BATTERY) OR CENTRAL INVERTER) | HAZARDOUS AREA; EXPLOSION PROOF EXPLOSION PROOF, CLASS 1, DEAD FRONT, | EQUIPMENT DESIGNATION (REFER TO GENERAL SYMBOLS FOR SPECIFIC SYMBOL USE) | |
| - | | CONDUIT CAPPED | | 45° ANGLE, TWO GANG | CONTROL PANEL, VFD, RVSS, APPROXIMATE SHAPE AND SCALE. | NOTE: MODIFIERS FOR H - POWER (ABC P - POWER C - CONTROL |
| | DB 05P1100 | DUCT BANK IDENTIFIER (OPTIONAL) DUCT BANK, DIRECT | LIGHT FIXTURE PENDANT MOUNT | RECESSED FLOOR RECEPTACLE - ANY RECEPTACLE INSIDE A SQUARE | | S - SIGNAL D - DATA F - FIBER OPTIC PC - POWER ANI X - SPARE |
| | – \ DB — — – —сdb— — | BURIED DUCT BANK, CONCRETE ENCASED | EMERGENCY FUNCTION | SURFACE FLOOR RECEPTACLE - ANY RECEPTACLE INSIDE A TRIANGLE | AREA CLASSIFICATION | X - SPARE SUFFIX: A - LETTER TO C |
| A | —RC—RC— | DUCTBANK, REINFORCED CONCRETE ENCASED OVERHEAD POWER LINE | LIGHT FIXTURE RECESSED CAN TYPE WITH EMERGENCY FUNCTION WALL MOUNTED | GANGED RECEPTACLES-IN COMMON BOX, WITH COMMON WALL PLATE | C1-D1 HAZARDOUS AREA CLASSIFICATION | EXAMPLE 1: P101-1: 3 #2/0 |
| | | | FIXTURE DIRECTIONAL LIGHT | -C RECEPTACLE, CLOCK HANGER RECEPTACLE, DUPLEX ON EMERGENCY | C1-D2 HAZARDOUS AREA CLASSIFICATION | EXAMPLE 2: SES-2: 2[3 #1/ |
| | | | | EMERGENCY 480V RECEPTACLE | | EXAMPLE 3: C111: 2-1 PR ; EXAMPLE 4: |
| | | | UNIT SELF CONTAINED | | | VND, 1"C |
| | | 1 | 2 | 3 | 4 5 | |



| | 1 | | 3 | | 4 | | |
|--------------|---|---|-------------------|--|-------------------------------|---|--------------------------------------|
| | GENERAL | CONTROL DIAGRAM SYMBOLS | N/IC | SCELLANEOUS | TRIP | ONE LINE DIAG | RAM SYMBOLS |
| | | NORMALLY NORMALLY INITIATING | FU 30 | FUSE WITH SIZE AND OPTIONAL IDENTIFICATION | TRIP FRAME | POWER CIRCUIT BREAKER (AIR, OIL, OR GAS) FRAME AND TRIP SETTING AND OPTIONAL I.D. SHOWN | 600kW 480V G 480V 60 Hz 3P, 4W |
| D | CONDUCTORS NOT CONNECTED TERMINAL POINT FOR EXTERNAL CONNECTIONS | OPEN CLOSED VARIABLE SS SS | 30A FU 30, 30A | FUSE WITH BLOWN FUSE INDICATOR | 3P)) 100 AT 100 AF LSIG | CIRCUIT BREAKER W/ ADJUSTABLE ELECTRONIC TRIP OVER BREAKER FRAME SIZE. SOLID STATE TRIP FEATURES SHOWN: L = LONG DELAY S = SHORT DELAY | 500 |
| | EXISTING EQUIPMENT (SCREENED) | | 480 VAC | | 100 AT 100 AF LSIG | I = INSTANTANEOUS G = GROUND FAULT | (<u>55 k</u> var |
| | | WS WS FORCE OR TORQUE | 250VA | CONTROL TRANSFORMER PRIMARY AND SECONDARY SIZE AS SHOWN OR AS SPECIFIED | | | |
| | DIRECT CONNECTION DUSH TO TEST. TEST VOLTAGE TERMINAL SHOWN X1 | ZS ZS POSITION | 250/5 | CURRENT TRANSFORMER PRIMARY/SECONDARY TURNS RATIO SHOWN (OPTIONAL) | | CIRCUIT BREAKER (DIFFERING ORIENTATION) MCP = MOTOR CIRCUIT PROTECTOR 3P = 3 POLE THERMAL MAGNETIC TRIP | |
| | LENS COLOR: (L = LENS COLOR) A = AMBER B= BLUE G= GREEN R= RED W= WHITE | FS FS FLOW | FU 30 | FUSE: 5A CLASS 'F' SHOWN | MCP | | |
| | | | | RESISTOR | J 30A | FUSED SWITCH: | |
| | PUSHBUTTONS | 8 | | SURGE OR ARC SUPPRESSION | | FUSE RATING AND POLES SHOWN MODIFIERS: CLF = CURRENT LIMITING FUSE DE = DUAL ELEMENT | |
| С | HS-XXXX | PS PS PRESSURE | <u>(55 K</u> VAR | CAPACITOR | Ϋ́ | F = CLASS 'F' E = E RATED | |
| | HS-XXXX PUSHBUTTON, MOMENTARY CONTACT, NORMALLY CLOSED | | | CONNECTOR | 200A | DISCONNECT OR ISOLATING SWITCH 200 AMP SHOWN | |
| | HS-XXXX PUSHBUTTON WITH | TIMING RELAYS | | DRAWOUT MECHANISM | ↓ ↓ _{ATS#} | POWER TRANSFER SWITCH: DESIGNATION, AMP RATING, AND CONFIGURATION | - + |
| | ALA MUSHROOM HEAD, EMERGENCY STOP | TR OPERATING COIL SEC / MIN FUNCTION: ON OR OFF DELAY | | SOLENOID VALVE: DEVICE ID 'CV-1000' SHOWN | 100A, 3P | SHOWN ATS = AUTOMATIC TRANSFER SWITCH MTS = MANUAL TRANSFER SWITCH SUSE = SUITABLE FOR USE AS SERVICE ENTRANCE | |
| | SELECTOR SWITCHES | RANGE: SEC / MIN SET: SEC / MIN | | BUS DUCT | | AIR BREAK CONTACTOR, FVNR UON. NEMA | △ 480 VAC 30KVA |
| | HS-XXXXX 1 2 2 POSITION MAINTAINED | NORMALLY NORMALLY <u>OPEN CLOSED</u> TR3 TR3 TR3 TR3 OPEN TR3 Q< | | GROUND CONNECTION | 1 ⊥ FVR | SIZE 1 INDICATED FVR = FULL VOLTAGE, REVERSING STARTER 2S2W = TWO SPEED, TWO WINDING STARTER | 5% Z 208/120V |
| | | LINE 50 | | POTENTIOMETER | | METERING (ANSI / IEEE FUNCTIONS SPECIFIED) POWER MONITOR (PM) | |
| ANDERSON | | NORMALLY <u>OPEN</u> TR3 TR3 TR3 TR3 TR3 TR3 TR3 TR3 TR3 TR3 TR3 DELAY ON COIL DE-ENERGIZATION TC (ON DELAY) TO DELAY ON COIL TR3 TR3 TR3 DELAY ON COIL TR3 TR3 DELAY ON COIL TC TC TC TC TC TC TC T | —(н)— | METER W/ ALPHA IDENTIFIER: A = AMMETER H = ELAPSED TIME V = VOLTMETER | | POWER MUALITY MONITOR (HARMONIC ANALYSIS) (POM) POWER QUALITY MONITOR (HARMONIC ANALYSIS) (POM) MOTOR MONITOR AND PROTECTION RELAY (MPR) FEEDER PROTECTION RELAY (FPR) | 1 11111 |
| USER: NATE | Contracts of the second s | LINE 50 LINE = ID OF LINE OR RUNG NUMBER (LINE OR RUNG NUMBER S0 SHOWN) | I CABLE ID | BATTERY | 5 KVA | PACKAGED EQUIPMENT OR NON-MOTOR LOAD. KVA, KW, AMPS, AS NOTED. | 480VAC - 120VAC |
| 29 PM CAD | HS-XXXX 1 1 1 2 | CONTACTORS | | SHIELDED CABLE | XX HP ### AMPS | VARIABLE FREQUENCY DRIVE (VFD) NORMAL DUTY UON | ^{250/5} 3 |
| 5/30/2023 4: | OXO STORE CONTACT X = CONTACTS OXO O O O O O O O O O O O O O O | OPERATING COLL: | | LOCATED IN FIELD | VFD | HP IS INDICATED IF DIFFERENT THAN DRIVEN LOAD HP ##AMPS = RATED CONTINUOUS AMPS | WINDING |
| PLOT DATE: | | C = CONTACTOR, LIGHTING, OR GENERAL USE F = FAST OR FORWARD M = MAIN OR LINE 1M = FIRST MAIN OR WYE 2N = STECONE MANN OR DEPT TA | | DC TERMINAL BLOCK | RVSS | REDUCED VOLTAGE SOLID STATE STARTER | |
| DWG PL | CONTROL RELAYS | 2M = SECOND MAIN OR DELTA R = RUN OR REVERSE S = SLOW OR START IC = ISOLATION CONTROL | | PLC I/O POINTS DI = DIGITAL INPUT | | | |
| E-08-0002.I | CR FUNCTION OPERATION COIL: CR = CONTROL RELAY | ID ———————————————————————————————————— | | DO = DIGITAL OUTPUT AI = ANALOG INPUT AO = ANALOG OUTPUT | SPD | SURGE PROTECTION DEVICE | Ē. |
| FILENAME | L B MECHANICALLY LATCHED RELAY WITH UNLATCHED COIL OUTPUT CONTACTS. LINE NUMBER OF RELAY COIL | OPTIONAL MODIFIERS: FVR = FULL VOLTAGE REVERSING RVS = REDUCED VOLTAGE STARTER RVSS = REDUCED VOLTAGE SOLID STATE | | | 64 N_3 | ANSI C37.2 DEVICE & QUANTITIES SHOWN | 50 AM 30 SE |
| AD2345536 | CR1 CR2 SHOWN (OPTIONAL) H H OPERATING COLL FUNCTIONS: LINE 30 LINE 30 L = LATCH U = UNLATCH | STARTER RVAT = REDUCED VOLTAGE AUTOTRANSFORMER STARTER 2S2W = TWO SPEED, TWO WINDING STARTER | | | | | |
| ath: C:\BCPM | OL TR = TIMER RELAY LR = LATCH RELAY OVERLOAD RELAY | M VACUUM CONTACTOR, NEMA SIZE OPTIONAL | | | | | |
| ₽. | 1 | 2 | 3 | | 4 | 5 | I |

GENERATOR WITH WINDING CONFIGURATION VOLTAGE, POWER, FREQUENCY SHOWN. POWER FACTOR OPTIONAL

MOTOR, HORSE POWER SHOWN

POWER FACTOR CORRECTIONS CAPACITOR KVAR RATING SHOWN

POTHEAD

STRESS CONE

PORTABLE CABLE

CABLE BUS

BUS CONDUCTOR

CABLE CONDUCTOR

SURGE ARRESTOR

LIGHTNING ARRESTOR

TEST DEVICE

POWER TRANSFORMER, VOLTAGES, SIZE, AND IMPEDANCE SHOWN

AC ISOLATION TRANSFORMER, VOLTAGES, SIZE, AND IMPEDANCE SHOWN AC

POTENTIAL TRANSFORMER, PT QUANTITY SHOWN (3) AND VOLTAGES SHOWN

CURRENT TRANSFORMER, CT QUANTITY AND 250:5 TURNS RATIO SHOWN

ING CONFIGURATIONS:

DELTA

WYE (GROUNDED)

50 AMP / 80 SEC

KIRK KEY INTERLOCK

NEUTRAL GROUNDING RESISTOR. AMPS/TIME RATING SHOWN

Brown AND Caldwell

Salt Lake City, UT

D

BID SET С Key Contraction **TSSD** Clean Water **TP-4 EAST** FACILITY UTILITIES AND CLARIFIERS REHABILITATION PROJECT REVISIONS REV DATE DESCRIPTION В LINE IS 2 INCHES DESIGNED: N.ANDERSON DRAWN: B.NURSUWITO HECKED: M.PAGENDARM CHECKED: PPROVED: N.ANDERSON FILENAME E-08-0002.DWG CONSULTANT PROJECT NUMBER 157492 TSSD PROJECT NUMBER 157492 ELECTRICAL А ELECTRICAL LEGEND AND

SYMBOLS 2

DRAWING NUMBER E-08-0002

| | 1 | 2 | 1 | 3 | 4 | 5 |
|---------------------|--|---|--------------------|--|---|--|
| | Α | ABBREVIATIONS | | | | GENERAL |
| A | | 1 | Q | | | |
| A, AMF AC AFF | AMP(S), AMPERE(S) ALTERNATING CURRENT ABOVE FINISHED FLOOR | ICOM INTERCOM ID INSIDE DIAMETER IMC INTERMEDIATE METAL CONDUIT | QSB R | QUARTZ STANDBY | | THE ELECTRICAL DRAWINGS USE THE ONE LINE DIAGRA CONJUNCTION WITH SHOWING THE LOCATION OF THE E SHOWN ON THE PLAN DRAWINGS TO DEPICT THE WORK |
| AFF AHAP AIC | ABOVE FINISHED FLOOR AS HIGH AS POSSIBLE AMPS INTERRUPTING CAPACITY, SYMM. | INCAND INCANDESCENT INTLK INTERLOCK | | RECEPTACLE | | DETERMINE AND PROVIDE THE NECESSARY RACEWAY SHALL BE RUN EXPOSED AND ROUTED BY THE CONTRA |
| AL ARCH | ALUMINUM ARCHITECT(URAL) | INST INSTANTANEOUS I/O INPUT-OUTPUT | REF REQD | REFERENCE REQUIRED | | WIRE USED SHALL BE AS SPECIFIED. 2. THE LOCATION OF THE CONTROL STATIONS SHOWN ON |
| ASYM ATS | ASYMMETRICAL AUTOMATIC TRANSFER SWITCH | IPB INSTRUMENT PULLBOX | RE STL RMS | REINFORCING STEEL ROOT MEAN SQUARE | | LOCATION SHALL BE COORDINATED IN THE FIELD WITH AS PIPING, PROCESS EQUIPMENT, ETC. |
| AUTO AUX AWG | AUTOMATIC AUXILIARY AMERICAN WIRE GAUGE | J JB JUNCTION BOX | RTD RTU RVSS | RESISTANCE TEMPERATURE DETECTOR REMOTE TERMINAL UNIT REDUCED VOLTAGE SOLID STATE STARTER | | 3. THE CONTRACTOR SHALL COORDINATE WITH THE STR |
| B | AMERICAN WIRE GAUGE | K | RVS5 | REDUCED VOLTAGE SOLID STATE STARTER | | TERMINATION LOCATIONS. |
| BC | BARE COPPER | KCMIL 1000 CIRCULAR MIL | ⊆ SA | SURGE ARRESTOR | | |
| BLDG BOT | BUILDING BOTTOM | KV KILOVOLT KVA KILOVOLT-AMPERE | SCR SD | SILICON CONTROLLED RECTIFIER SMOKE DETECTOR | | |
| <u>c</u> | | KVAR KILOVOLT-AMPERE REACTIVE KW KILOWATT | SEC SEL | SECONDARY SELECTOR | | |
| C CB | CONDUCTOR, CONDUIT CIRCUIT BREAKER | KWH KILOWATT-HOUR | SHH SMH SPEC | SIGNAL HANDHOLE SIGNAL MANHOLE SPECIFICATION | | |
| CKT CLG | CIRCUIT CEILING | L LONG | SPD SPKR | SURGE PROTECTION DEVICE SPEAKER | | |
| CM CND | CENTIMETERS CONDUIT | LC LIGHTING CONTACTOR LCP LOCAL CONTROL PANEL | ST STP | SHORT TIME SHIELDED TWISTED PAIR | | |
| CNTL C.O. | CONTROL CONDUIT ONLY, SPARE | LCS LOCAL CONTROL STATION LED LIGHT EMITTING DIODE | SUB SW | SUBSTATION SWITCH | | |
| CONC CPT | CONCRETE CONTROL POWER TRANSFORMER | LHH LOW VOLTAGE HANDHOLE LMH LOW VOLTAGE MANHOLE | SWBD SWGR | SWITCHBOARD SWITCHGEAR SYMMETRICAL | | |
| CT CU | CURRENT TRANSFORMER COPPER | LP LIGHTING PANEL LT LONG TIME LTG LIGHTING | SYMM SYS | SYMMETRICAL SYSTEM | | |
| 므 | | LV LOW VOLTAGE | Τ | | | |
| DB | DUCT BANK, DIRECT BURIAL | M | TB TEL | TERMINAL BOX TELEPHONE | | |
| DC DCU | DIRECT CURRENT, DATA CABLE DISTRIBUTED CONTROL UNIT | M METER MA MILLIAMPERE | TEMP TFR | TEMPERATURE TRANSFORMER | | |
| DET DIAG | DETAIL DIAGRAM | MBS MANUAL BYPASS SWITCH MCC MOTOR CONTROL CENTER | TRI TV | TRIAD TELEVISION | | |
| DISC DWG | DISCONNECT DRAWING | MCP MOTOR CIRCUIT PROTECTOR MPC MINI POWER CENTER MECH MECHANICAL | TVSS TYP | TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL | | |
| Ē | | MFR MANUFACTURE(R) MH MANHOLE, METAL HALIDE | <u>U</u> | | | |
| EA EC | EACH EMPTY CONDUIT | MIC MICROPHONE MIS MANAGEMENT INFORMATION STATION | U/G UON | UNDERGROUND UNLESS OTHERWISE NOTED | | |
| ECP EDB | EQUIPMENT CONTROL PANEL ELECTRICAL DUCTBANK | MISC MISCELLANEOUS MM MILLIMETER | UPS | UNINTERRUPTIBLE POWER SUPPLY | | |
| EG EL | ENGINE GENERATOR SET | MMH MEDIUM VOLTAGE MANHOLE MOV MOTOR OPERATED VALVES | <u>V</u> | | | |
| ELEC EMH EMER | ELECTRIC(AL) ELECTRICAL MANHOLE EMERGENCY | MTS MANUAL TRANSFER SWITCH MV MILLIVOLT, MEDIUM VOLTAGE MVMC MEDIUM VOLTAGE MOTOR CONTROL | V VA VAR | VOLT VOLTAMPERE VOLTAMPERE REACTIVE | | |
| ENCL | ENCLOSURE/ENCLOSED ELECTRICAL PULLBOX | | VC VC VCP | VACUUM CONTACTOR VENDOR CONTROL PANEL | | |
| ETM | ELAPSED TIME METER EXPLOSION PROOF | N/A NOT APPLICABLE | VND | VENDOR | | |
| EQUIP EX | EQUIPMENT EXISTING | N.C. NORMALLY CLOSED NEUT, N NEUTRAL NEUT,N | W | | | |
| E | | NF NON-FUSED NIC NOT IN CONTRACT N.O. NORMALLY OPEN | W W/ | WATT, WIRE, WIDE WITH WITHOUT | | |
| FDR FL | FEEDER FLUORESCENT | N.O. NORMALLY OPEN NO. NUMBER NOM NOMINAL | W/O WW WG | WIREWAY WITH GROUND | | |
| FLA | FULL LOAD AMPS FLEXIBLE CONDUIT | NP NAMEPLATE NTS NOT TO SCALE | WP | WEATHERPROOF | | |
| F.O. FO | FAIL OPEN FIBER OPTIC | <u>o</u> | X | | | |
| B F.O. FO FUT | FUTURE | OC ON CENTER | XFMR XMTR | TRANSFORMER TRANSMITTER | | |
| <u>G</u> GDR | GROUNDING RESISTOR | OCC OPERATION CONTROL CENTER OD OUTSIDE DIAMETER OH OVERHEAD | XP | EXPLOSION PROOF | | |
| GEC | GROUNDING RESITOR GROUND ELECTRODE CONDUCTOR | OIS OPERATOR INTERFACE STATION OT OIL TIGHT | <u>Z</u> Z | IMPEDANCE | | |
| GF GFI | GROUND FAULT GROUND FAULT INTERRUPTER | OWS OPERATOR WORKSTATION | L | | | |
| GND, O GRS | | <u>P</u> | | | | |
| н | | P POLE, PHASE PBD PANEL BOARD | | | | |
| н ндт | HIGH HEIGHT | PB PUSHBUTTON, PULLBOX PCP PROCESS CONTROL PANEL PF POWER FACTOR | | | | |
| HH | HANDHOLE HIGH INTENSITY DISCHARGE | PF POWER ACTOR PH PHASE PLC PROGRAMMABLE LOGIC CONTROLLER | | | | |
| HMI HP | HUMAN MACHINE INTERFACE HORSEPOWER | PMM POWER METERING MODULE PNL PANEL | | | | |
| HPS HTR | HIGH PRESSURE SODIUM HEATER | PP POWER PANEL PR PAIR | | | | |
| HV HVAC | HIGH VOLTAGE HEATING, VENTILATION, AND AIR CONDITIONING | PRI PRIMARY PT POTENTIAL TRANSFORMER | | | | |
| HZ | HERTZ (CYCLES PER SECOND) | PVC POLYVINYL CHLORIDE PWR POWER | | | | |
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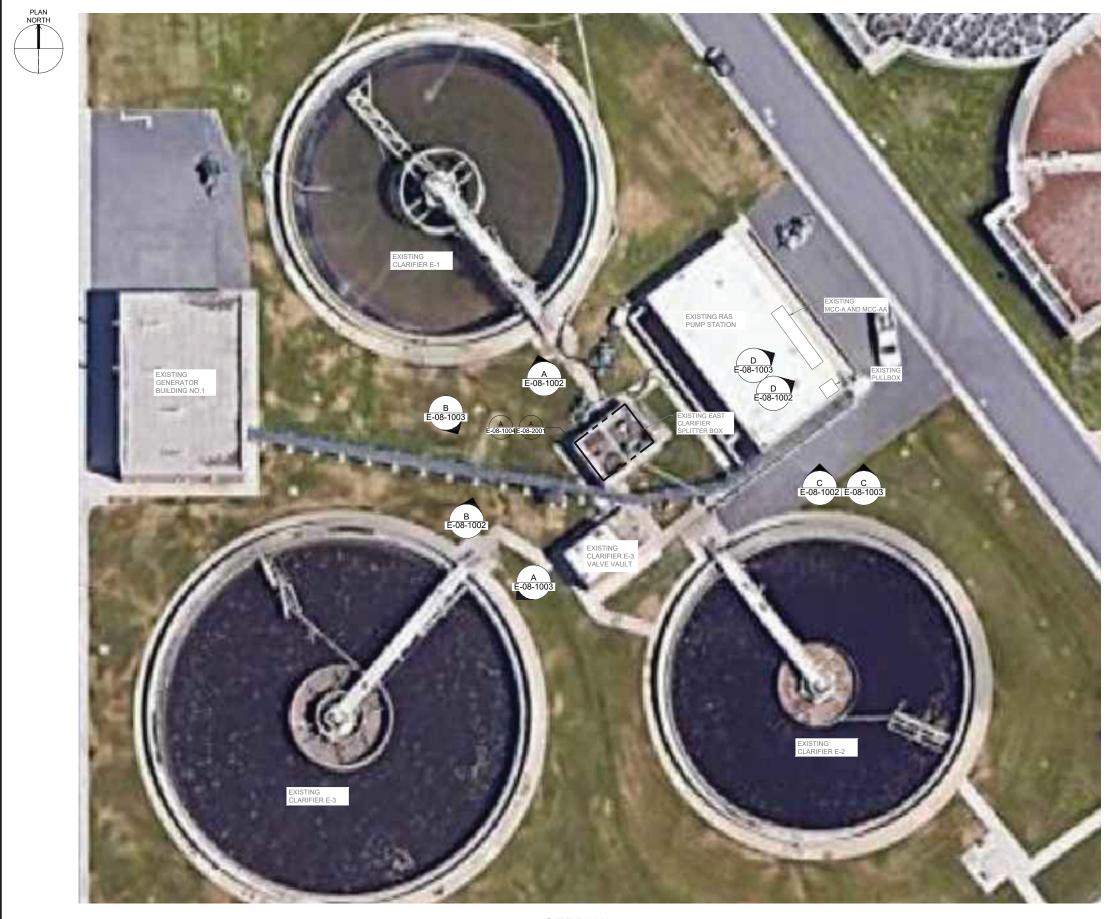
NOTES

RAMS AND RISER DIAGRAMS AND PANEL SCHEDULES IN ELECTRICAL/INSTRUMENTATION SOURCES AND LOADS/DEVICES K. THE CONTRACTOR SHALL USE THESE DOCUMENTS TO AND WIRING SYSTEM FOR EACH CIRCUIT. ALL INDOOR RACEWAY ACTOR, UNLESS OTHERWISE NOTED. THE TYPE OF RACEWAY AND

N THE PLAN DRAWINGS ARE DIAGRAMMATIC ONLY. THE ACTUAL THE CONSTRUCTION MANAGER AND ADJACENT EQUIPMENT SUCH

JCTURAL AND MECHANICAL DRAWINGS FOR CONDUIT STUB UP AND





SITE PLAN

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GENERAL NOTES

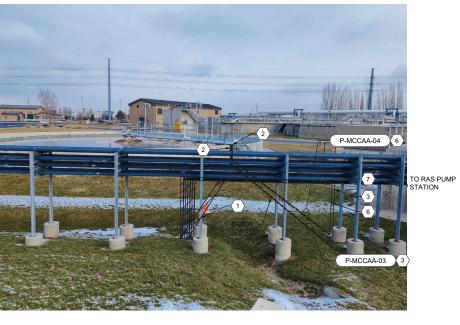
1. PLAN NOT TO SCALE. CONTRACTOR TO FIELD VERIFY REQUIRED MATERIALS, MATERIAL LENGTHS, DIMENSIONS, LOCATIONS, AND QUANTITIES.



ELECTRICAL SITE PLAN

DRAWING NUMBER









CONDUIT PENETRATIONS E-08-1001 SCALE: NTS



E-08-1001 SCALE: NTS

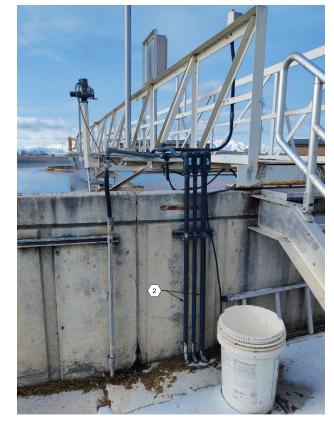
| GE | ENERAL NOTES | |
|----|---|---|
| 1. | PLAN AND PHOTOS NOT TO SCALE. CONTRACTOR TO FIELD VERIFY REQUIRED MATERIALS, MATERIAL LENGTHS, DIMENSIONS, LOCATIONS, AND QUANTITIES. | Brown AND Caldwell |
| ٥I | KEY NOTES | |
| 1. | DEMOLISH EXISTING CONDUIT AND CABLE FOR CLARIFIER E-1 DRIVE AND LIGHTING, DEMOLISH EXISTING UNDERGROUND CONDUITS, REPAIR PORTIONS OF SIDEWALK AND TURF REMOVED FOR CONDUIT DEMOLITION TO MATCH EXISTING, SEE SHEET ED-08-8001 FOR ADDITIONAL EAST CLARIFIER E-1 DEMOLITION SCOPE. | Salt Lake City, UT |
| 2. | DEMOLISH EXISTING CONDUIT. REPLACE WITH NEW CONDUIT. | |
| 3. | PULL NEW 480V CABLE FROM EXISTING MCC-AA TO CLARIFIER E-1 NEW DRIVE. UTILIZE NEW CONDUIT AND EXISTING OVERHEAD CONDUIT BANK AS NEEDED. | |
| 4. | PROVIDE NEW CONDUIT FROM EXISTING OVERHEAD CONDUIT BANK TO DISCONNECT SWITCH FOR SPLITTER BOX SOUTHWEST LIFT GATE ACTUATOR. PULL NEW CABLE FROM MCC-AA SPARE BUCKET THROUGH EXISTING PULLBOX, THEN THROUGH EXISTING OVERHEAD CONDUITS, THEN THROUGH EXISTING OVERHEAD CONDUITS, THEN THROUGH THIS NEW CONDUIT PER KEYNOTE #1 ON SHEET E-08-7001. | |
| 5. | PROVIDE NEW CONDUIT FROM EXISTING OVERHEAD CONDUIT BANK TO THE SPLITTER BOX LIGHT SWITCH. PULL NEW CABLE FROM MCC-AA PANEL AA CIRCUIT #24, THEN THROUGH EXISTING OVERHEAD CONDUITS, THEN THROUGH THIS NEW CONDUIT PER KEYNOTE #2 ON SHEET E-08-7001. | |
| 6. | PULL NEW LUMINAIRE POWER CABLE FROM EXISTING MCC-AA PANEL AA TO CLARIFIER E-1 LUMINAIRES. UTILIZE NEW CONDUIT AND EXISTING OVERHEAD CONDUIT BANK AS NEEDED. | |
| 7. | DEMOLISH EXISTING CONDUITS FOR CLARIFIER E-1 AND CLARIFIER E-3 WEST OF THIS POINT. | BID SET |
| | | TSSD Clean Water |
| • | EXISTING MCC-AA BUCKET 'CLARIFIER 1" | TP-4 EAST FACILITY UTILITIES AND CLARIFIERS REHABILITATION PROJECT REVISIONS REV DATE DESCRIPTION |
| | | |
| | | DRAWING NUMBER |



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CLARIFIER E-3 REFEED PLAN



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A CLARIFIER E-3 VIEW SOUTHWEST CONDUITS



B CLARIFIER E-3 CONDUIT RUNS

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CONDUIT PENETRATIONS

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RANGE B

E-08-1001 SCALE: NTS

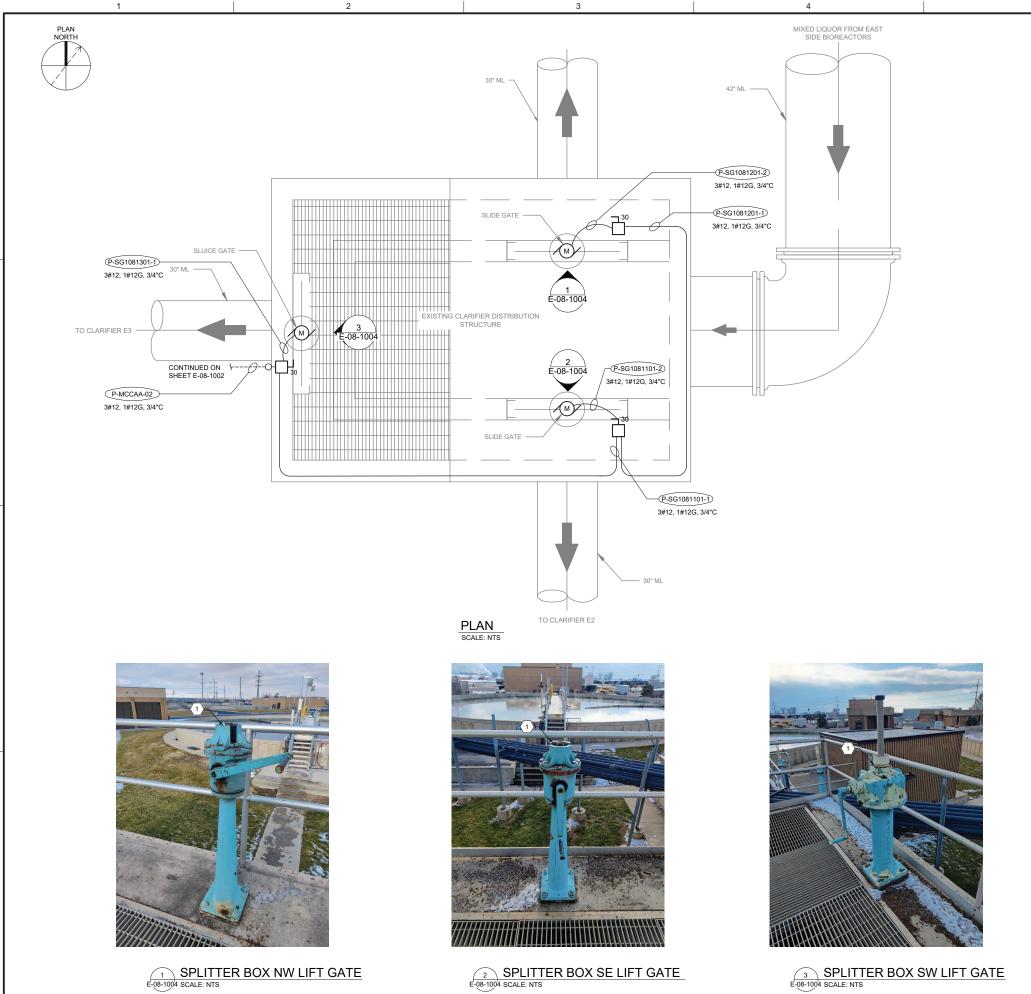
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EXISTING MCC-AA BUCKET "CLARIFIER 3"

| | 6 | |
|------------|--|-----------------------|
| GE | NERAL NOTES | |
| 1. | PLAN AND PHOTOS NOT TO SCALE. CONTRACTOR TO FIELD VERIFY REQUIRED MATERIALS, MATERIAL LENGTHS, DIMENSIONS, LOCATIONS, AND QUANTITIES. | Brown AND Caldwell |
| ~ k | KEY NOTES | |
| 1. | DEMOLISH EXISTING CONDUIT AND CABLE FOR CLARIFIER E-3 DRIVE AND LIGHTING. DEMOLISH EXISTING UNDERGROUND CONDUITS. REPAIR PORTIONS OF SIDEWALK AND TURF REMOVED FOR CONDUIT DEMOLITION TO MATCH EXISTING. SEE SHEET ED-08-8002 FOR ADDITIONAL EAST CLARIFIER E-3 DEMOLITION SCOPE. | Salt Lake City, UT |
| 2. | DEMOLISH EXISTING CONDUIT. REPLACE WITH NEW CONDUIT. | |
| 3. | PULL NEW 480V CABLE FROM EXISTING MCC-AA TO CLARIFIER E-3 NEW DRIVE. UTILIZE NEW CONDUIT AND EXISTING OVERHEAD CONDUIT BANK AS NEEDED. | |
| 4. | PULL NEW LUMINAIRE POWER CABLE FROM EXISTING MCC-AA PANEL AA TO CLARIFIER E-3 LUMINAIRES. USE NEW CONDUIT AND EXISTING OVERHEAD CONDUIT BANK AS NEEDED. | |
| 5. | DEMOLISH EXISTING CONDUITS FOR CLARIFIER E-1 AND CLARIFIER E-3 WEST OF THIS POINT. | |

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| BID SET | с |
| TSSD Clean Water | |
| | В |
| DESIGNED: N.ANDERSON DRAWN: B.NURSUWITO CHECKED: M.PAGENDARM CHECKED: N.ANDERSON FILENAME E-08-1003.DWG CONSULTANT PROJECT NUMBER 157492 TSSD PROJECT NUMBER 157492 ELECTRICAL | A |
| DRAWING NUMBER E-08-1003 | |

ISH EXISTIN FIER E-3 WES



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3 SPLITT E-08-1004 SCALE: NTS

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GENERAL NOTES

PLAN AND PHOTOS NOT TO SCALE. CONTRACTOR TO FIELD VERIFY REQUIRED MATERIALS, MATERIAL LENGTHS, DIMENSIONS, LOCATIONS, AND QUANTITIES. 1.

KEY NOTES

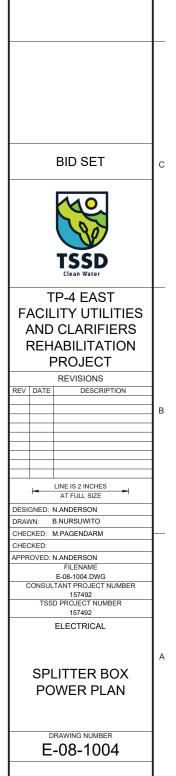
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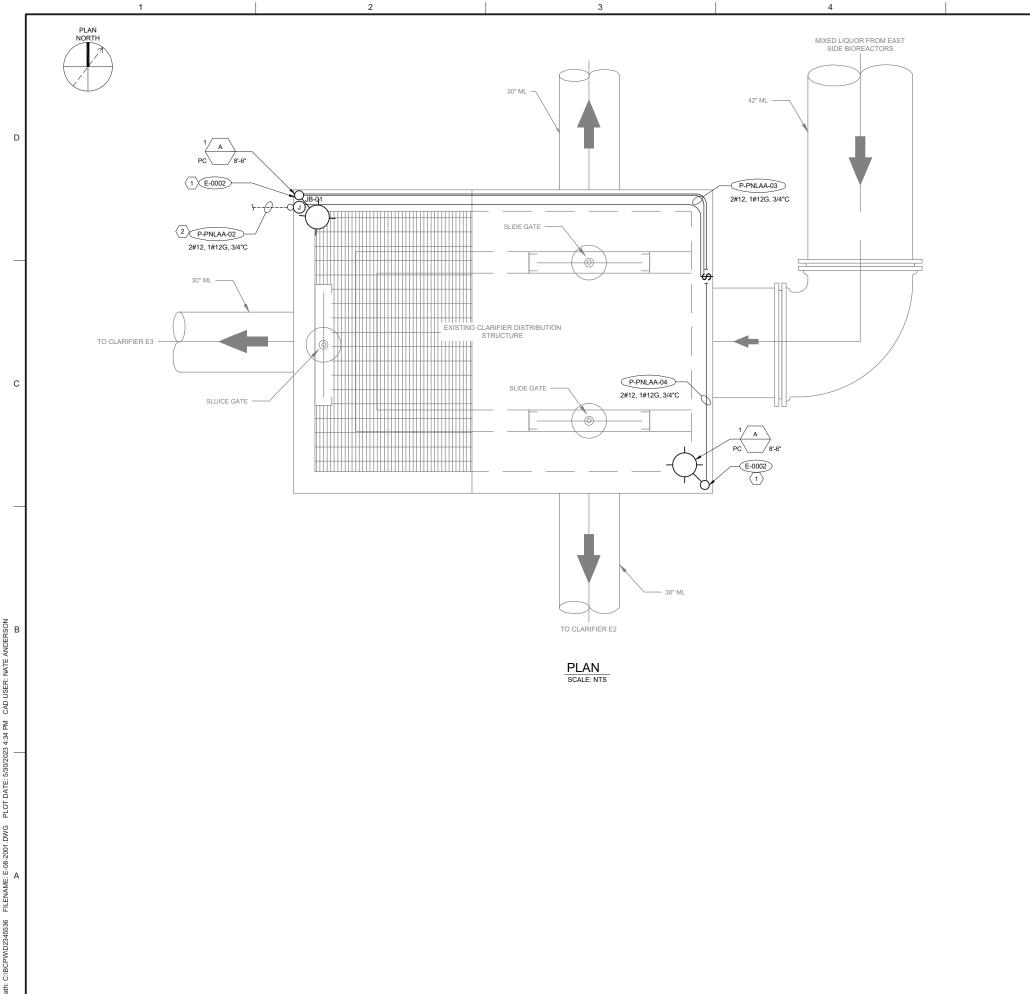
1. PROVIDE ONE ROTORK IQ3 SIZE 19 ACTUATOR FOR EACH SLIDE GATE. DESIGN, SUBMIT, FURNISH, AND INSTALL ALL HARDWARE REQUIRED TO CONNECT THE NEW MOTORIZED ROTORK ACTUATOR TO THE NEW GATE PEDESTALS SUCH THAT THE MOTORIZED ACTUATOR CAN MOVE THE GATE THROUGH ITS COMPLETE RANGE OF MOTION. COORDINATE DIRECTLY WITH THE NEW GATE PEDESTAL SUPPLIER TO OBTAIN ANY REQUIRED INFORMATION.



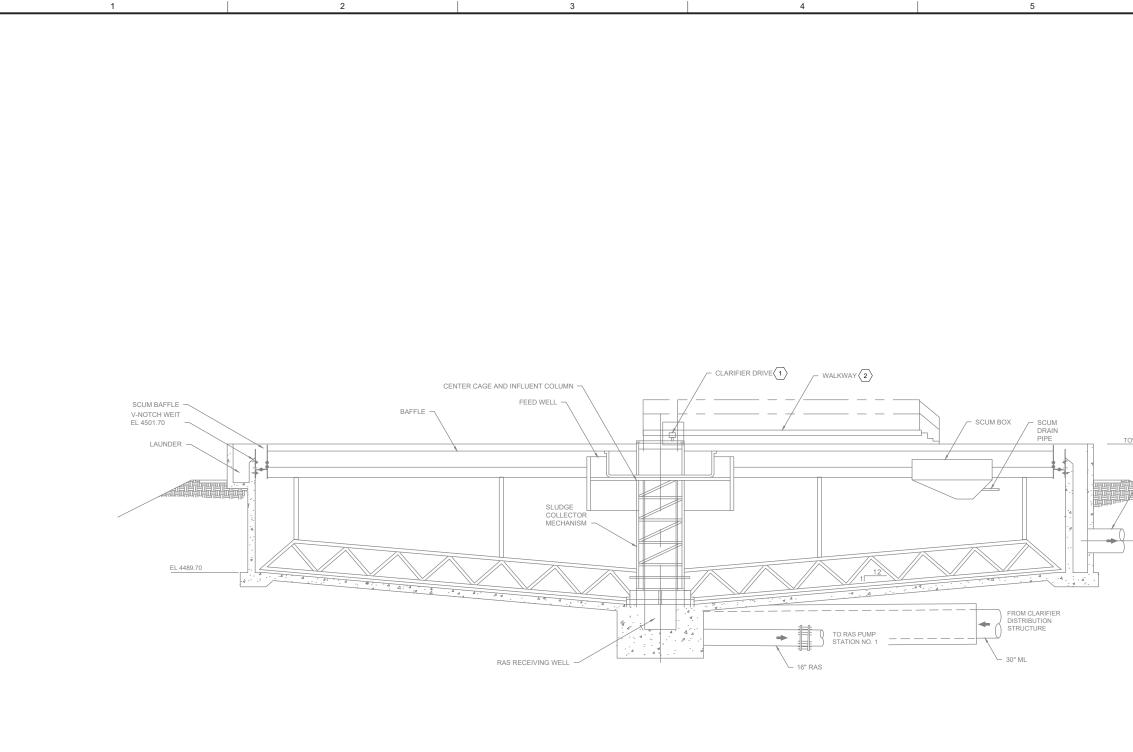
Salt Lake City, UT

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| GENERAL NOTES | |
|---|--|
| PLAN NOT TO SCALE. CONTRACTOR TO FIELD VERIFY REQUIRED MATERIALS, MATERIAL LENGTHS, DIMENSIONS, LOCATIONS, AND QUANTITIES. | Brown AND . Caldwell |
| ○ KEY NOTES | |
| PROVIDE NEW, STANCHION MOUNTED LUMINAIRES MANUFACTURED BY EATON CROUSE-HINDS, PART NUMBER "VMVL-3-N-P-R3-UNV1" OR EQUAL. | Salt Lake City, UT |
| PULL NEW CABLE FROM EXISTING 120/240V PANEL AA CIRCUIT #24 TO LIGHT SWITCH. PANEL AA IS INSIDE THE EXISTING RAS BUILDING MCC-AA | |
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| | BID SET |
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| | TSSD Clean Water |
| | TP-4 EAST |
| | FACILITY UTILITIES |
| | REHABILITATION PROJECT |
| | REVISIONS |
| | REV DATE DESCRIPTION |
| | |
| | |
| | |
| | DESIGNED: N.ANDERSON |
| | DRAWN: B.NURSUWITO CHECKED: M.PAGENDARM |
| | CHECKED: APPROVED: N.ANDERSON |
| | FILENAME E-08-2001.DWG |
| | CONSULTANT PROJECT NUMBER 157492 TSSD PROJECT NUMBER |
| | 157492 ELECTRICAL |
| | |
| | SPLITTER BOX |
| | LIGHTING PLAN |
| | |
| | DRAWING NUMBER E-08-2001 |
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SECONDARY CLARIFIER ILLUSTRATIVE SECTION SCALE: NTS

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GENERAL NOTES

SECTION NOT TO SCALE. CONTRACTOR TO FIELD VERIFY REQUIRED MATERIALS, MATERIAL LENGTHS, DIMENSIONS, LOCATIONS, AND QUANTITIES. 1.

KEY NOTES

- 1. CLARIFIER DRIVES TO BE REPLACED. BID ALTERNATIVE: REMOVE, REBUILD, AND REINSTALL EXISTING CLARIFIER DRIVES.
- EXISTING LIGHTING TO BE REINSTALLED. BID ALTERNATIVE: FURNISH AND INSTALL NEW WALKWAY LUMINAIRES, EATON CROUSE-HINDS PART NUMBER "VMVL-3-N-P-R3-UNV1" OR EQUAL.



Salt Lake City, UT

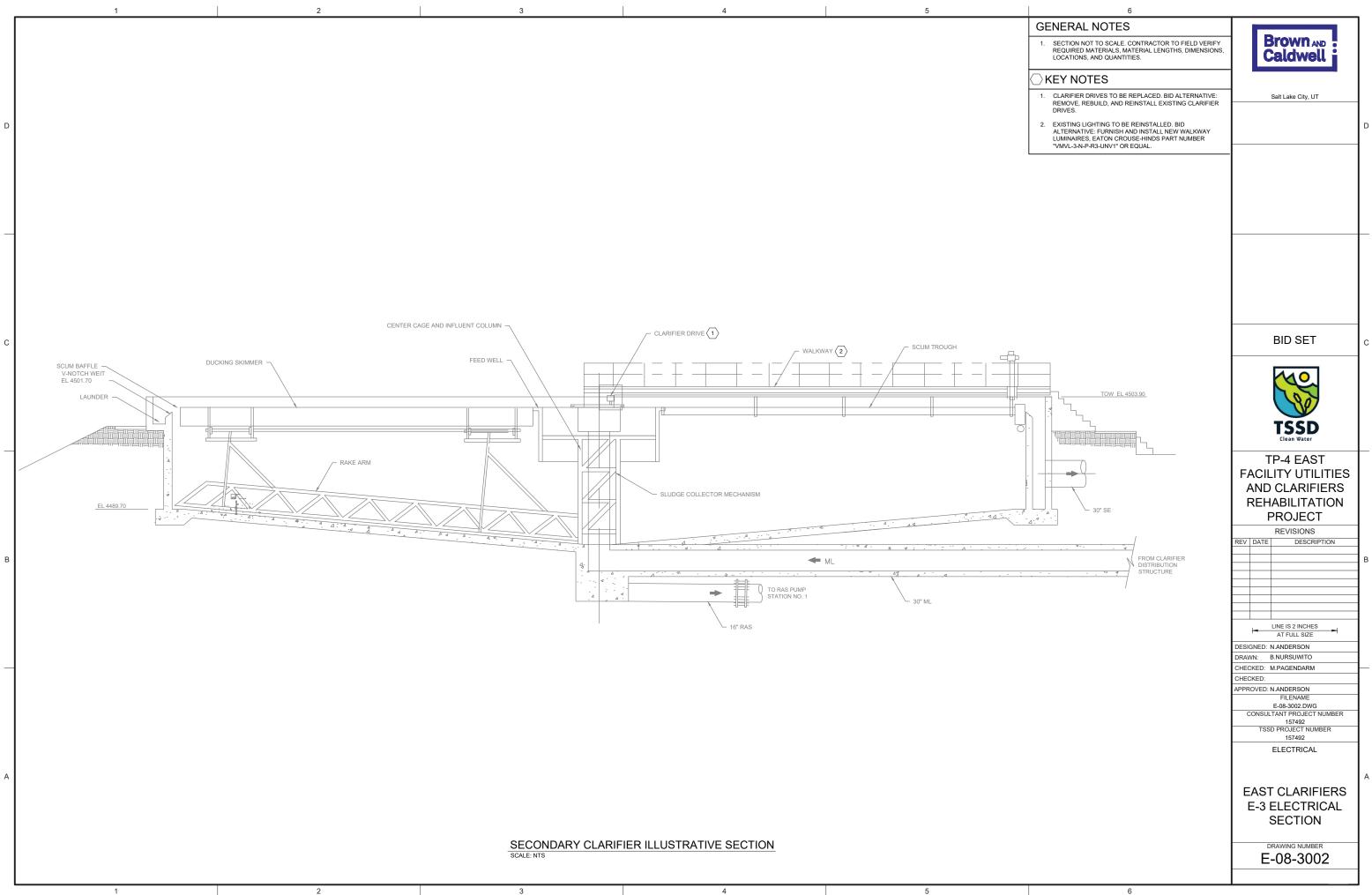
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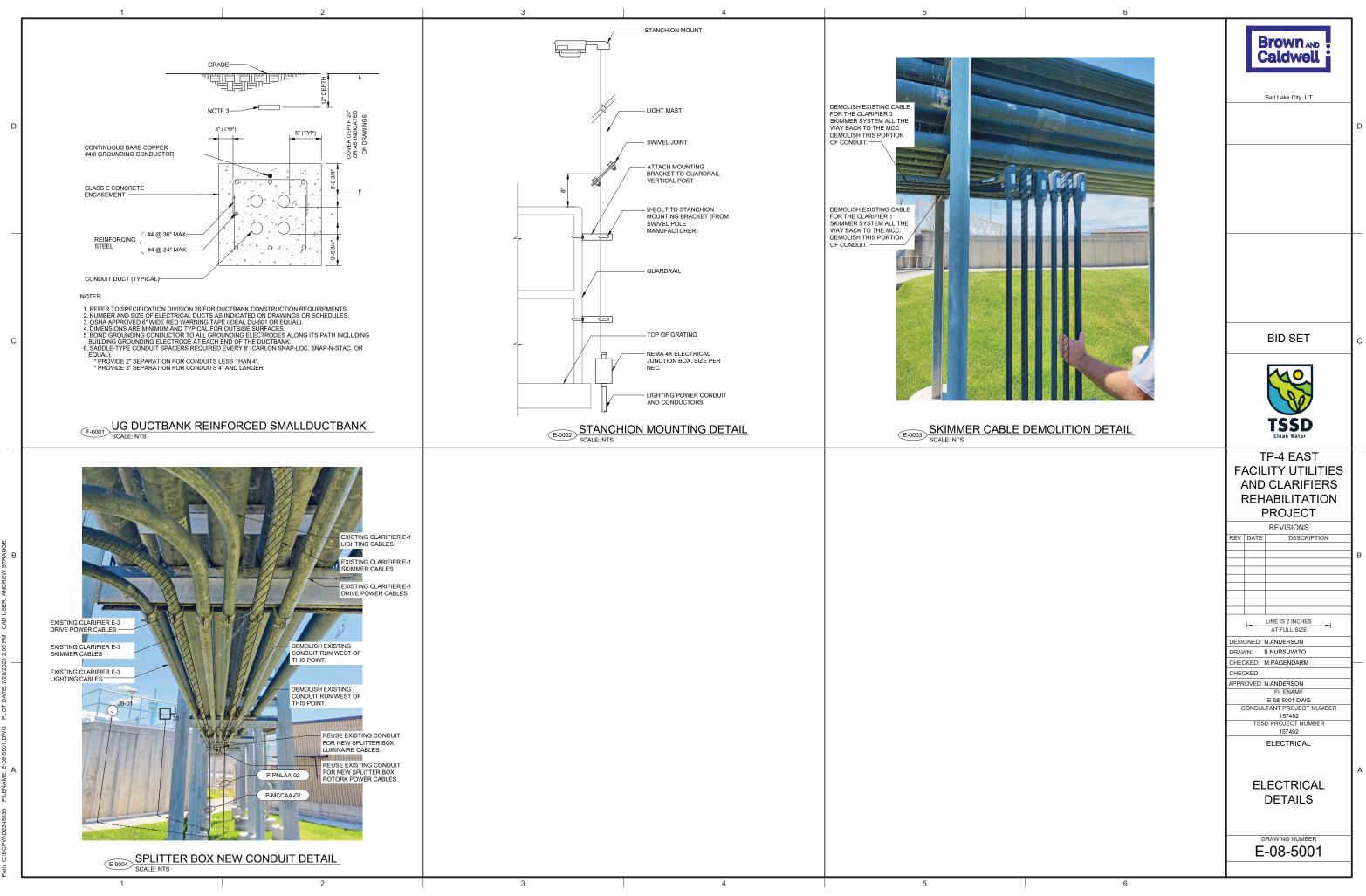
TOW EL 4503.90

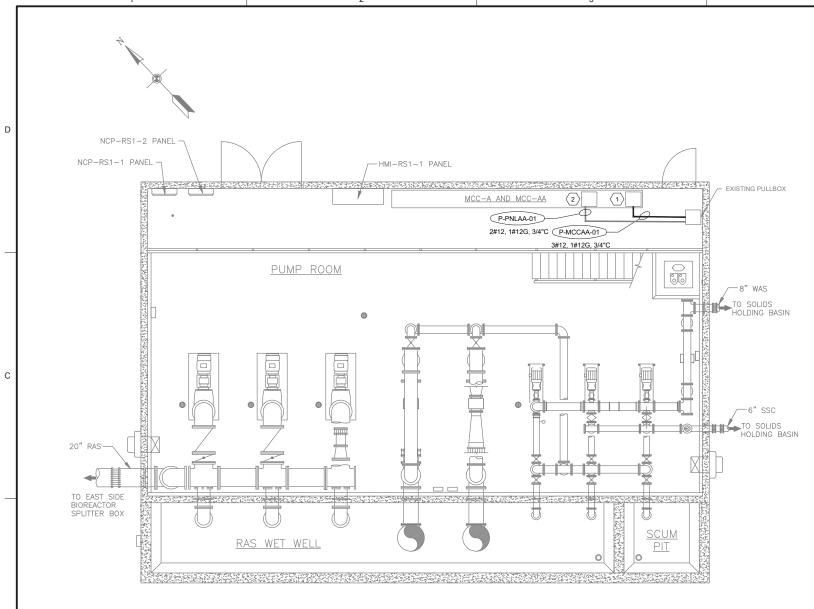
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_ TO UV DISINFECTION

| BID SET | с |
|---|---|
| TSSD Clean Water | |
| TP-4 EAST FACILITY UTILITIES AND CLARIFIERS REHABILITATION PROJECT REVISIONS REV DATE DESCRIPTION LINE IS 2 INCHES AT FULL SIZE DESIGNED: NANDERSON DRAWN: B.NURSUWITO | В |
| CHECKED: M.PAGENDARM CHECKED: APPROVED: N.ANDERSON FILENAME E-08-3001.DWG CONSULTANT PROJECT NUMBER 157492 TSSD PROJECT NUMBER 157492 ELECTRICAL EAST CLARIFIERS E-1, E-2 ELECTRICAL SECTION DRAWING NUMBER E-08-3001 | A |







RAS PUMP STATION NO. 1 PLAN SCALE: NTS

3

2



EXISTING MCC-AA SPARE



EXISTING MCC-AA PANEL AA

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GENERAL NOTES

1. PLAN AND PHOTO NOT TO SCALE. CONTRACTOR TO FIELD VERIFY REQUIRED MATERIALS, MATERIAL LENGTHS, DIMENSIONS, LOCATIONS, AND QUANTITIES.

KEY NOTES

- 1. CONFIRM EXISTING 3 POLE 15-AMP CIRCUIT BREAKER IS INSIDE MCC BUCKET. PROVIDE NEW CABLES FROM EXISTING SPARE MCC BUCKET TO EAST CLARIFIER SPLITTER BOX SOUTHEAST LIFT GATE ACTUATOR. ROUTE NEW CONDUIT FROM MCC-AA TO EXISTING PULLBOX.
- 2. PROVIDE NEW CABLES FROM EXISTING PANEL AA CIRCUIT #24 TO EAST CLARIFIER SPLITTER BOX LIGHT SWITCH. USE EXISTING CONDUIT FROM MCC-AA TO EXISTING PULLBOX.



Salt Lake City, UT

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BID SET С 00 **TSSD TP-4 EAST** FACILITY UTILITIES AND CLARIFIERS REHABILITATION PROJECT REVISIONS REV DATE DESCRIPTION LINE IS 2 INCHES AT FULL SIZE DESIGNED: N.ANDERSON DRAWN: B.NURSUWITO HECKED: M.PAGENDARM CHECKED: PPROVED: N.ANDERSON FILENAME E-08-7001.DWG CONSULTANT PROJECT NUMBER 157492 TSSD PROJECT NUMBER 157492 ELECTRICAL PANEL SCHEDULES DRAWING NUMBER

E-08-7001