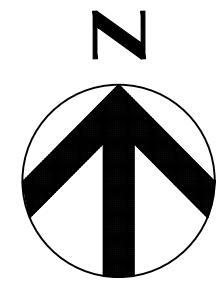


LOCATION MAP



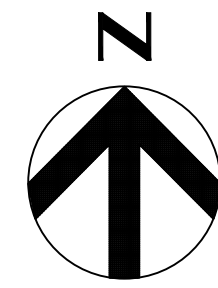
Drawings For

# City of Hailey Woodside Wastewater Reclamation Facility

INDEX OF DRAWINGS	
SHEET NUMBER	SHEET NAME
GENERAL	
G-00	COVER SHEET
G-01	GENERAL LEGENDS AND SYMBOLS
G-02	GENERAL ABBREVIATIONS AND NOTES
G-03	PROCESS AND MECHANICAL LEGENDS AND SYMBOLS
G-04	CONTROLS LEGEND
G-05	ELECTRICAL LEGEND
PROCESS MECHANICAL	
D-00	ISOMETRIC
D-01	UV INSTALLATION PLAN
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E-001	ELECTRICAL COVER SHEET
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Y-01	UV SYSTEM

## VOLUME 3 - UV INSTALLATION DRAWINGS

ISSUE FOR BID  
HDR Project No.  
0000000010162649  
October 2022



VICINITY MAP

CITY OF HAILEY  
WOODSIDE WASTEWATER  
RECLAMATION FACILITY



1	2	3	4	5	6	7	8
<h3>SITE PLAN SYMBOLOGY</h3> <p>EMANKMENT SLOPE</p> <p>50.5 CONTOUR</p> <p>VEGETATION (SIZE)</p> <p>CO CLEANOUT</p> <p>MH MANHOLE</p> <p>MW MONITORING WELL</p> <p>PZ PIEZOMETER</p> <p>CB STORM DRAIN CATCH BASIN</p> <p>UV UTILITY VAULT</p> <p>PP POWER POLE</p> <p>TP TELEPHONE POLE</p> <p>FH FIRE HYDRANT</p> <p>YH-X YARD HYDRANT</p> <p>75.5 EXISTING SPOT ELEVATION</p> <p>75.8 FINISHED SPOT ELEVATION</p> <p>CP-X HORIZONTAL CONTROL POINT</p> <p>BENCHMARK</p> <p>TH-X IDENTIFICATION AND APPROXIMATE LOCATION OF SOIL TEST HOLE</p> <p>DOWNGUY</p> <p>EXTERIOR PAD MOUNTED TRANSFORMER</p> <p>POLE - MOUNTED TRANSFORMER</p> <p>Y ELECTRICAL HANDHOLE OR MANHOLE Y - MHX OR HHX, WHERE X INDICATES SEQUENCE NUMBER</p> <p><b>NOTES:</b></p> <p>1. UTILITIES THAT ARE SUSPENDED ABOVE GRADE ARE DESIGNATED BY THE PREFIX "OH" (OVERHEAD).</p> <p>T TELEPHONE LINE</p> <p>E ELECTRIC LINE</p> <p>F FIBER OPTIC</p> <p>C COMMUNICATION</p> <p>HANDRAIL AND GUARDRAIL</p> <p>PIPELINE</p> <p>LARGE PIPELINE</p> <p>UTILITY BENEATH STRUCTURE</p> <p>RAILROAD</p> <p>DRAINAGE FLOW</p> <p>NATURAL WATERWAY</p> <p>CHAIN LINK FENCE</p> <p>FIELD FENCE</p> <p>PROPERTY LINE</p> <p>CENTERLINE</p> <p>ROCK BERM</p> <p>SILT FENCE</p> <p>EASEMENT</p> <p>LIMITS OF CONSTRUCTION</p> <p>RIGHT OF WAY</p>	<h3>MATERIALS IN PLAN/SECTION</h3> <p>ACOUSTICAL CEILING TILE (SECTION)</p> <p>ASPHALT (PLAN OR SMALL-SCALE SECTION)</p> <p>ASPHALT (LARGE-SCALE SECTION)</p> <p>BATT INSULATION (SECTION)</p> <p>BRICK MASONRY (PLAN AND/OR SECTION)</p> <p>CHECKERED PLATE (PLAN)</p> <p>CONCRETE (PLAN AND/OR SECTION)</p> <p>CONCRETE MASONRY (PLAN AND/OR SECTION)</p> <p>DEMOLITION (PLAN AND/OR SECTION)</p> <p>EARTH (SECTION)</p> <p>FILTER POINT MAT (PLAN)</p> <p>FINISHED WOOD (SECTION)</p> <p>GLULAM LUMBER (SECTION)</p> <p>GRANULAR FILL (SECTION)</p> <p>GRATING (SECTION)</p> <p>GRATING (PLAN)</p> <p>GROUT (SECTION)</p> <p>GYPSUM BOARD (SECTION)</p> <p>METAL (SECTION)</p> <p>ORIENTED STRAND BOARD (SECTION)</p> <p>PARTICLE BOARD (SECTION)</p> <p>PLYWOOD (LARGE-SCALE SECTION)</p> <p>PLYWOOD (SMALL-SCALE SECTION)</p> <p>PRECAST CONCRETE (PLAN AND/OR SECTION)</p> <p>RIGID INSULATION (SECTION)</p> <p>RIPRAP (PLAN AND/OR SECTION)</p> <p>SAND (SECTION)</p> <p>SOD (SECTION)</p> <p>WEEP JOINT MORTAR PROTECTION SYSTEM (SECTION)</p> <p>WOOD - CONTINUOUS (SECTION)</p> <p>WOOD BLOCKING (SECTION)</p>	<h3>GENERAL SYMBOLOGY</h3> <p>NORTH ARROW</p> <p>SCALE, TYP</p> <p>1/4"=1'-0"</p> <p>PLAN</p> <p>PLAN TITLE</p> <p>SECTION LETTER</p> <p>FLAG INDICATES DIRECTION OF SECTION CUT</p> <p>SHEET WHERE SECTION IS LOCATED *</p> <p>SECTION CUT MARKER</p> <p>SECTION LETTER</p> <p>SECTION</p> <p>3/8"=1'-0"</p> <p>SHEET WHERE SECTION VIEW IS FIRST CUT *</p> <p>SECTION TITLE</p> <p>DETAIL NUMBER</p> <p>SHEET WHERE DETAIL IS LOCATED *</p> <p>DETAIL MARKER</p> <p>FOR REFERENCING DETAILS INCLUDED IN DRAWING SET.</p> <p>XXXXXXXXXX</p> <p>STANDARD DETAIL MARKER</p> <p>FOR REFERENCING STANDARD DETAILS BOUND IN VOLUME 4 OF 4.</p> <p>DETAIL NUMBER</p> <p>DETAIL</p> <p>3/8"=1'-0"</p> <p>SHEET WHERE DETAIL VIEW IS FIRST CUT *</p> <p>DETAIL TITLE</p> <p>ELEVATION NUMBER</p> <p>ARROW INDICATES POINT OF VIEW</p> <p>SHEET WHERE ELEVATION IS LOCATED *</p> <p>SINGLE ELEVATION OR PHOTO MARKER</p> <p>ELEVATION NUMBER</p> <p>ARROW INDICATES POINT OF VIEW ELEVATION</p> <p>INDICATES SHEET WHERE ELEVATION IS LOCATED</p> <p>MULTIPLE ELEVATION OR PHOTO MARKER</p> <p>ELEVATION IDENTIFICATION NUMBER</p> <p>ELEVATION</p> <p>3/8"=1'-0"</p> <p>SHEET WHERE DETAIL VIEW IS FIRST CUT *</p> <p>ELEVATION TITLE</p> <p>* FOR COMMON DETAILS AND SECTIONS OR DETAILS THAT ARE CUT OR CALLED OUT ON MULTIPLE SHEETS, THE SHEET NUMBER IS REPLACED BY A DASH (-).</p>	<h3>ARCHITECTURAL</h3> <p>TARGET ELEVATION</p> <p>ROOM NAME</p> <p>XXXX ROOM NUMBER</p> <p>DOOR NUMBER</p> <p>XXXXX</p> <p>COLUMN GRID LINE</p> <p>A</p> <p>WALL TYPE</p> <p>X</p> <p>WINDOW TYPE</p> <p>X</p> <p>LOUVER</p> <p>X</p> <p>ACCESSORY, FURNITURE, AND MISCELLANEOUS EQUIPMENT IDENTIFIER</p> <p>X</p> <p><b>KEY NOTE DESIGNATION</b></p> <p>KEY NOTE NUMBER</p> <p>#</p> <p><b>MATCHLINE</b></p> <p>SEE SHEET XXXXXX FOR CONTINUATION</p>	<h3>GENERAL LINE SYMBOLOGY</h3> <p>4-HOUR FIRE RATED WALL</p> <p>3-HOUR FIRE RATED WALL</p> <p>2-HOUR FIRE RATED WALL</p> <p>1-HOUR FIRE RATED WALL</p> <p>COLUMN GRID LINE/CENTERLINE</p>	<h3>GENERAL NOTES:</h3> <p>1. THIS IS A STANDARD SHEET SHOWING COMMON SYMBOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.</p> <p>2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.</p>		

ISSUE DATE	DESCRIPTION
10/03/2022	ISSUE FOR BID

PROJECT MANAGER	BRAD BJERKE
DESIGN BY	B. BJERKE
DRAWN BY	E. SJOBERG
CHECKED BY	P. URSILLO
PROJECT NUMBER	10162649

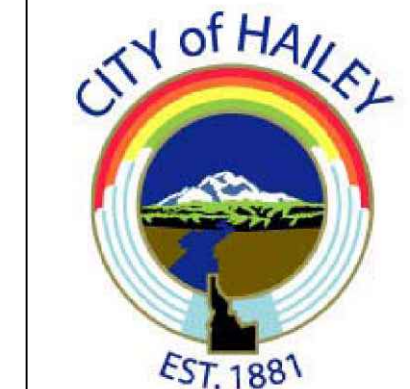


PIPING SYMBOLOGY			BIM DERIVED VALVE SYMBOLOGY			HVAC CONTROL SYMBOLOGY			HVAC SYMBOLOGY						
VALVES			MISCELLANEOUS			VALVES									
SINGLE LINE	DOUBLE LINE	ISOLATION				PLAN VIEW	SECTION VIEW	CONTROL							
		BALL VALVE		PIPE JOINT (SEE SPECS FOR REQUIREMENTS)				FULL PORT BALL VALVE, LEVER OPERATOR		TC	TEMPERATURE CONTROLLER		24x18 SUPPLY AIR OR OUTSIDE AIR DUCT UP (SECTION CUT, FIRST DIMENSION DUCT WIDTH)		MOD = MOTOR OPERATED DAMPER
		BUTTERFLY VALVE		COMPRESSION SLEEVE TYPE COUPLING				BALL VALVE, HANDWHEEL OPERATOR		TT	TEMPERATURE TRANSMITTER		SUPPLY AIR OR OUTSIDE AIR DUCT DOWN (NO SECTION CUT)		FIRE DAMPER
		DIAPHRAGM VALVE		FLANGED COUPLING ADAPTER (FCA)				THREE WAY BALL VALVE, LEVER OPERATOR		T	THERMOSTAT		RETURN AIR DUCT UP (SECTION CUT)		ZD = ZONE DAMPER
		GATE VALVE		FLEXIBLE CONNECTION				AWWA BUTTERFLY VALVE, HAND WHEEL OPERATOR		TS	TEMPERATURE SENSOR		RETURN AIR DUCT DOWN (NO SECTION CUT)		FLEXIBLE CONNECTION
		GLOBE VALVE		HARNESSED MECHANICAL COUPLING				AWWA BUTTERFLY VALVE, NUT OPERATOR		TI	TEMPERATURE INDICATOR		EXHAUST AIR DUCT UP (NO SECTION CUT)		FLEXIBLE DUCT - ONE LINE
		KNIFE GATE VALVE		PRESSURE GAGE (W/COCK)				GATE VALVE, HANDWHEEL OPERATOR		%	PERCENTAGE TIMER		EXHAUST AIR DUCT DOWN (NO SECTION CUT)		ACOUSTICAL LINING - DUCT DIMENSIONS FOR NET FREE AREA
		NEEDLE VALVE		TRAP				PLUG VALVE, HANDWHEEL OPERATOR		RC	RECEIVER CONTROLLER		ROUND ELBOW UP		ROUND ELBOW DOWN
		PINCH VALVE		QUICK DISCONNECT CAM & GROOVE COUPLING				PRESSURE RELIEF VALVE		HOA	HAND-OFF-AUTO		TRANSITION - DOUBLE SIDED		TRANSITION - ONE SIDED
		PLUG VALVE		CAP OR PLUG				DIAPHRAGM VALVE, HANDWHEEL OPERATOR		MS	MOTOR STARTER		TRANSITION - RECTANGULAR TO ROUND DUCT		STANDARD BRANCH - FOR SUPPLY AIR W/EXTRACTOR AND RETURN AIR W/O EXTRACTOR
		THREE-WAY BALL VALVE		INTERIOR CLEANOUT				BASKET STRAINER		M	DAMPER ACTUATOR		ELBOW - W/TURNING VANE (RECTANGULAR)		ELBOW - W/TURNING VANES (RECTANGULAR), SMOOTH RADIUS
		THREE-WAY PLUG VALVE		HOSE VALVE, HOSE BIBB, OR FLUSHING CONNECTION				WYE STRAINER		PI	PRESSURE INDICATOR		GOOSENECK HOOD (COWL)		ACCESS DOOR
		CONTROL		HOSE RACK				AIR VENT VALVE		FRZ	FREEZE STAT		RECTANGULAR DUCT OR OPENING SIZE - FIRST NUMBER INDICATES SIZE OF SIDE SHOWN		UC 3/4"
		BALL CHECK VALVE		FLOOR DRAIN				SWING CHECK VALVE		FS	FIRE STAT		ROUND DUCT SIZE		ROOM AIR CONDITIONING UNIT
		CHECK VALVE		PIPE IN SECTION				PRESSURE REGULATING VALVE		FS	FLOW SWITCH		RECTANGULAR DUCT INCLINE - RISE OR DROP IN RESPECT TO THE AIR FLOW		INTAKE/EXHAUST LOUVER
		DOUBLE-DISK CHECK VALVE		BELL UP (PLAN)				AWWA BUTTERFLY VALVE, MOTOR OPERATED		S	SMOKE DETECTOR		ROUND DUCT INCLINE - RISE OR DROP IN RESPECT TO THE AIR FLOW		SUPPLY, RETURN OR EXHAUST FAN
		CONE VALVE		BELL UP (SECTION OR SCHEMATIC)				BALL VALVE, ELECTRIC OPERATOR		DPS	DIFFERENTIAL PRESSURE SWITCH		HIDDEN DUCT		AIR FILTER
		PRESSURE RELIEF VALVE		DRAIN (SECTION OR SCHEMATIC)				SOLENOID VALVE		S	SMOKE DETECTOR		DUCT ELEVATION TAG ABOVE FINISH FLOOR		
		PRESSURE-REDUCING VALVE		AIR TOOL ASSEMBLY						FS	FLOW SWITCH		PRESSURE/TEMPERATURE TEST PLUG (PETE PLUG OR EQUAL)		
		PRESSURE-REDUCING VALVE		AUTOMATIC VALVE STATION						S	SMOKE DETECTOR		VD = VOLUME DAMPER BDD = BACKDRAFT DAMPER		
		AIR RELEASE VACUUM VALVE A = AIR RELEASE VAC = VACUUM		PRESSURE-REDUCING STATION						FS	FLOW SWITCH				
		PRESSURE-REGULATING VALVE		HOSE BIBB						FS	FLOW SWITCH				
		TWO-WAY CONTROL VALVE		HOSE REEL						FS	FLOW SWITCH				
		3-WAY CONTROL VALVE								FS	FLOW SWITCH				
<b>MISCELLANEOUS</b>			<b>PLUMBING SYMBOLOGY</b>												
	WATER METER			VENT (VT)											
	VARIABLE AREA METER			POTABLE WATER, COLD (PWC)											
	UNION			POTABLE WATER, HOT (PWH)											
	PENETRATION THROUGH STRUCTURE			WASTE, ABOVE GRADE (D)											
	FLEXIBLE HOSE OR TUBING			WASTE, BELOW GRADE (D)											
	FLEXIBLE PIPING CONNECTION		<b>GENERAL NOTES:</b>												
	LINE SIZE CHANGE (CONCENTRIC REDUCER)		1. THIS IS A STANDARD PROCESS, MECHANICAL AND PLUMBING SYMBOLOGY SHEET. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.												
	LINE SIZE CHANGE (ECCENTRIC REDUCER)		2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.												
	LINE TURNING DOWN		3. SEE INSTRUMENTATION LEGEND SHEET FOR PROJECT-SPECIFIC EQUIPMENT SYMBOLS, EQUIPMENT ABBREVIATIONS, AND PIPING SYSTEM ABBREVIATIONS.												
	LINE TURNING UP														
	BLIND FLANGE														
	PIPE BREAK														
<b>NOTES:</b>															
A. VALVE SYMBOLOGY SHOWN APPLIES TO SINGLE AND DOUBLE LINE PIPING DERIVED FROM BIM GENERATED PLANS AND SECTIONS ONLY. REFER TO P & ID LEGEND SHEETS FOR OTHER VALVE AND PIPELINE SYMBOLOGY.															
B. THIS LEGEND IS INTENDED TO CLARIFY THE PROCESS, HVAC, AND PLUMBING DRAWINGS. IN THE EVENT OF A DISCREPANCY BETWEEN THE PROCESS DRAWINGS AND INSTRUMENTATION DRAWINGS, THE INSTRUMENTATION DRAWINGS SHALL GOVERN.															



10/03/2022	ISSUE FOR BID
ISSUE DATE	DESCRIPTION

PROJECT MANAGER	BRAD BJERKE
DESIGN BY	B. BJERKE
DRAWN BY	E. SJOBERG
CHECKED BY	P. URSILLO
PROJECT NUMBER	10162649



**UV INSTALLATION DRAWINGS**



**PROCESS AND MECHANICAL LEGENDS AND SYMBOLS**

FILENAME  
SCALE

1	2	3	4	5	6	7	8																																																																																																																																																																																																																																																										
<b>PRIMARY ELEMENT SYMBOLOGY</b> THERMAL MASS FLOWMETER DOPPLER ULTRASONIC FLOWMETER MAGNETIC FLOWMETER PROPELLER OR TURBINE METER ROTAMETER WEIR FLOAT SWITCH ULTRASONIC LEVEL SENSOR DIAPHRAGM SEAL INSITU ANALYTICAL PROBE PRESSURE GAUGE SUBMERGED LEVEL SENSOR  <b>ACTUATOR SYMBOLS</b> M P S H  <b>LINE TYPES</b> FIBER LINE PRIMARY PROCESS LINE SECONDARY PROCESS LINE AUXILIARY PROCESS LINE FUTURE PROCESS LINE EXISTING PROCESS LINE PROCESS OPEN CHANNEL PNEUMATIC SIGNAL ELECTRIC SIGNAL, ANALOG ELECTRIC SIGNAL, DISCRETE ELECTRIC POWER HYDRAULIC SIGNAL SOFTWARE OR DATA LINK SIGNAL CONNECTION CROSSOVER - NO CONNECTION CAPILLARY TUBE TELEMETRY LINE ETHERNET COMMS LINE ULTRASONIC SIGNAL (UNGUIDED) PACKAGED EQUIPMENT	<b>INSTRUMENT SYMBOLOGY</b> XXX XXX XXX XXX XXX XXX X XXX XXX    <b>PUMP AND COMPRESSOR SYMBOLS</b> CENTRIFUGAL PUMP ROTARY LOBE BLOWER SUBMERSIBLE PUMP CHEMICAL FEED PUMP PISTON PUMP PROGRESSIVE CAVITY PUMP ROTARY LOBE PUMP VERTICAL TURBINE OR PROPELLER PUMP COMPRESSOR HOSE PUMP CENTRIFUGAL BLOWER OR FAN TURBO BLOWER PROPELLER PUMP AIR DIAPHRAGM PUMP	<b>MISCELLANEOUS SYMBOLS</b> REDUCER STRAINER SPRAY NOZZLE CALIBRATION COLUMN FLEXIBLE HOSE ANNULAR DIAPHRAGM SEAL ACCUMULATOR VFD RUPTURE DISK HEAT EXCHANGER BUBBLER LEVEL TUBE EJECTOR CHEMICAL INJECTOR MIXER STATIC MIXER FLOW STRAIGHTENER SLUDGE GRINDER MUD VALVE DRAIN VENT SUPPRESSOR FLUSHING CONNECTION SAMPLE PORT COARSE BUBBLE DIFFUSER	<b>VALVES</b> BALL VALVE BUTTERFLY VALVE CONE VALVE CHECK VALVE DOUBLE-DISK CHECK VALVE BALL CHECK VALVE DIAPHRAGM VALVE GATE VALVE GLOBE VALVE KNIFE GATE VALVE NEEDLE VALVE PINCH VALVE PLUG VALVE THREE-WAY BALL VALVE THREE-WAY PLUG VALVE EXPANSION JOINT SOLENOID VALVE PRESSURE-REDUCING VALVE PRESSURE-REGULATING VALVE THREE-WAY CONTROL VALVE PRESSURE-RELIEF VALVE AIR-RELEASE VACUUM VALVE SURGE VALVE  <b>VALVE &amp; EQUIPMENT TAG NUMBERS</b> SLUICE BUTTERFLY FLAP SHEAR STOP FABRICATED SLIDE	<b>CONTROL SWITCH NOTATION ABBREVIATIONS</b> XXX ACKNOWLEDGE XXX EMERGENCY STOP XXX FAILURE XXX FORWARD-OFF-REVERSE XXX FAST-SLOW XXX HAND-AUTO XXX HAND-OFF-AUTO XXX HAND-OFF-REMOTE XXX LEAD-LAG XXX LOCAL-OFF-STANDBY XXX LOCAL-OFF-REMOTE XXX LOCAL-REMOTE XXX LEAD-STANDBY XXX MANUAL-AUTO XXX OPEN-AUTO-CLOSE XXX OPEN-CLOSE XXX OPEN-STOP-CLOSE XXX RUN-JOG XXX RUN-JOG-REVERSE XXX SILENCE XXX START-STOP  <b>TYPES OF POWER SUPPLY</b> A PLANT COMPRESSED AIR IA INSTRUMENTATION AIR ES ELECTRIC SUPPLY NG NATURAL GAS HYD HYDRAULIC  <b>GENERAL NOTES:</b> 1. THIS IS A STANDARD INSTRUMENTATION SYMBOLOGY AND ABBREVIATIONS SHEET. LISTING OF SYMBOLS AND ABBREVIATIONS DOES NOT IMPLY ALL SYMBOLS AND ABBREVIATIONS HAVE BEEN USED ON THIS PROJECT. 2. SEE PROCESS, MECHANICAL AND PLUMBING LEGEND SHEET FOR MISCELLANEOUS PIPING SYMBOLS. 3. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE. 4. VALVE SYMBOLS SHOWN HERE ARE APPLICABLE ONLY TO INSTRUMENTATION DIAGRAMS. SEE PROCESS, MECHANICAL AND PLUMBING LEGEND SHEET FOR VALVE SYMBOLS USED ELSEWHERE ON THE SHEETS.	<b>INSTRUMENT IDENTIFICATION LETTERS</b> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">FIRST LETTER</th> <th colspan="3">SUCCEEDING LETTERS</th> </tr> <tr> <th>MEASURED OR INITIATING VARIABLE</th> <th>MODIFIER</th> <th>READOUT OR PASSIVE FUNCTION</th> <th>OUTPUT FUNCTION</th> <th>MODIFIER</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>ANALYSIS</td> <td></td> <td>ALARM</td> <td></td> <td></td> </tr> <tr> <td>B</td> <td>BURNER, COMBUSTION</td> <td></td> <td>USER'S CHOICE</td> <td>USER'S CHOICE</td> <td>USER'S CHOICE</td> </tr> <tr> <td>C</td> <td>USERS CHOICE</td> <td></td> <td></td> <td>CONTROL</td> <td>CLOSED</td> </tr> <tr> <td>D</td> <td>USERS CHOICE</td> <td>DIFFERENTIAL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>E</td> <td>VOLTAGE</td> <td></td> <td>SENSOR (PRIMARY ELEMENT)</td> <td></td> <td></td> </tr> <tr> <td>F</td> <td>FLOW, FLOW RATE</td> <td>RATIO (FRACTION)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>G</td> <td>USER'S CHOICE</td> <td></td> <td>GLASS, VIEWING DEVICE</td> <td></td> <td></td> </tr> <tr> <td>H</td> <td>HAND</td> <td></td> <td></td> <td></td> <td>HIGH</td> </tr> <tr> <td>I</td> <td>CURRENT (ELECTRICAL)</td> <td></td> <td>INDICATE</td> <td></td> <td></td> </tr> <tr> <td>J</td> <td>POWER</td> <td>SCAN</td> <td></td> <td></td> <td></td> </tr> <tr> <td>K</td> <td>TIME, TIME SCHEDULE</td> <td>TIME, RATE OF CHANGE</td> <td></td> <td>CONTROL STATION</td> <td></td> </tr> <tr> <td>L</td> <td>LEVEL</td> <td></td> <td>LIGHT</td> <td></td> <td></td> </tr> <tr> <td>M</td> <td>USER'S CHOICE</td> <td>MOMENTARY</td> <td></td> <td></td> <td>MIDDLE, INTERMEDIATE</td> </tr> <tr> <td>N</td> <td>USER'S CHOICE</td> <td></td> <td>USER'S CHOICE</td> <td>USER'S CHOICE</td> <td>USER'S CHOICE</td> </tr> <tr> <td>O</td> <td>USER'S CHOICE</td> <td></td> <td>ORIFICE, RESTRICTION</td> <td></td> <td></td> </tr> <tr> <td>P</td> <td>PRESSURE, VACUUM</td> <td></td> <td>POINT (TEST) CONNECTION</td> <td></td> <td></td> </tr> <tr> <td>Q</td> <td>QUANTITY</td> <td>INTEGRATE, TOTALIZE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>R</td> <td>RADIATION</td> <td></td> <td>RECORD</td> <td></td> <td></td> </tr> <tr> <td>S</td> <td>SPEED, FREQUENCY</td> <td>SAFETY</td> <td></td> <td>SWITCH</td> <td></td> </tr> <tr> <td>T</td> <td>TEMPERATURE</td> <td></td> <td></td> <td>TRANSMIT</td> <td></td> </tr> <tr> <td>U</td> <td>MULTIVARIABLE</td> <td></td> <td>MULTIFUNCTION</td> <td>MULTIFUNCTION</td> <td>MULTIFUNCTION</td> </tr> <tr> <td>V</td> <td>VIBRATION, MECH. 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ISSUE DATE	ISSUE FOR BID DESCRIPTION
10/03/2022	ISSUE FOR BID

PROJECT MANAGER	BRAD BJERKE
DESIGN BY	B. BJERKE
DRAWN BY	E. SJOBERG
CHECKED BY	P. URSILLO
PROJECT NUMBER	10162649

**ELECTRICAL SYMBOLS** (LEGEND IS GENERAL IN NATURE. NOT ALL OF THE SYMBOLS SHOWN ARE USED IN THIS PROJECT.)

	SIMPLEX OUTLET. +18" AFF UNO.
	DUPLEX OUTLET. +18" AFF UNO.
	FOURPLEX OUTLET. +18" AFF UNO.
	SPECIAL PURPOSE OUTLET. VERIFY SIZE AND TYPE WITH EQUIPMENT SUPPLIER.
	CONNECTION POINT TO EQUIPMENT SPECIFIED, FURNISHED AND INSTALLED UNDER OTHER SECTIONS. ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY, CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION, UNO.
	DUPLEX OUTLET. FLUSH, FLOOR MOUNTED.
	FOURPLEX OUTLET. FLUSH, FLOOR MOUNTED.
	SPECIAL PURPOSE OUTLET. FLUSH, FLOOR MOUNTED.
	MOTOR CONNECTION. RE: MECHANICAL EQUIPMENT SCHEDULE
	TELEPHONE OUTLET, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING. LOCATED AT 18" AFF UNO.
	TELEPHONE/DATA OUTLET, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING. LOCATED AT +18" AFF UNO.
	DATA OUTLET, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING. LOCATED AT 18" AFF UNO.
	TELEPHONE OUTLET. FLUSH, FLOOR MOUNTED.
	TELEPHONE/DATA OUTLET. FLUSH, FLOOR MOUNTED.
	DATA OUTLET. FLUSH, FLOOR MOUNTED.
	JUNCTION BOX.
	JUNCTION BOX, WALL MOUNTED.
	THERMOSTAT. +56" AFF UNO. UNIT CONTROLLED INDICATED.
	HUMIDISTAT. +56" AFF UNO. UNIT CONTROLLED INDICATED.
	SURFACE MOUNTED PANELBOARD/ENCLOSURE. SEE SCHEDULE FOR TYPE.
	FLUSH MOUNTED PANELBOARD/ENCLOSURE. SEE SCHEDULE FOR TYPE.
	SINGLE BUTTON, WALL MOUNTED PUSHBUTTON. MOUNT AT SWITCH HEIGHT UNO.
	MOTOR STARTER/CONTACTOR.
	COMBINATION STARTER AND DISCONNECT.
	NON-FUSED DISCONNECT SWITCH. SIZE AS INDICATED, NEMA 1 UNO, 3 POLE UNO.
	FUSED DISCONNECT SWITCH. SIZE AS INDICATED, NEMA 1 UNO, 3 POLE UNO.
	CONDUIT STUBBED, CAPPED, AND MARKED WITH PULL CORD.
	CONDUIT UP.
	CONDUIT DOWN.
	HOMERUN. PANEL AND CIRCUIT AS INDICATED.
	CIRCUIT CONCEALED IN CEILING OR WALL. 3/4"-2#12, 1#12G UNO.
	CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND. 3/4"-2#12, 1#12G UNO.
<p>GROUNDING CONDUCTOR SIZE</p> <p>RACEWAY SIZE</p> <p>CONDUCTOR SIZE</p> <p>CONDUCTOR QUANTITY</p> <p>X"-X#X,X#XG</p>	
	MECHANICAL EQUIPMENT SYMBOL (RE: MECHANICAL DRAWINGS FOR EXACT LOCATION OF UNITS).
	INDICATES FIXTURE TYPE. REFER TO LUMINARE SCHEDULE.

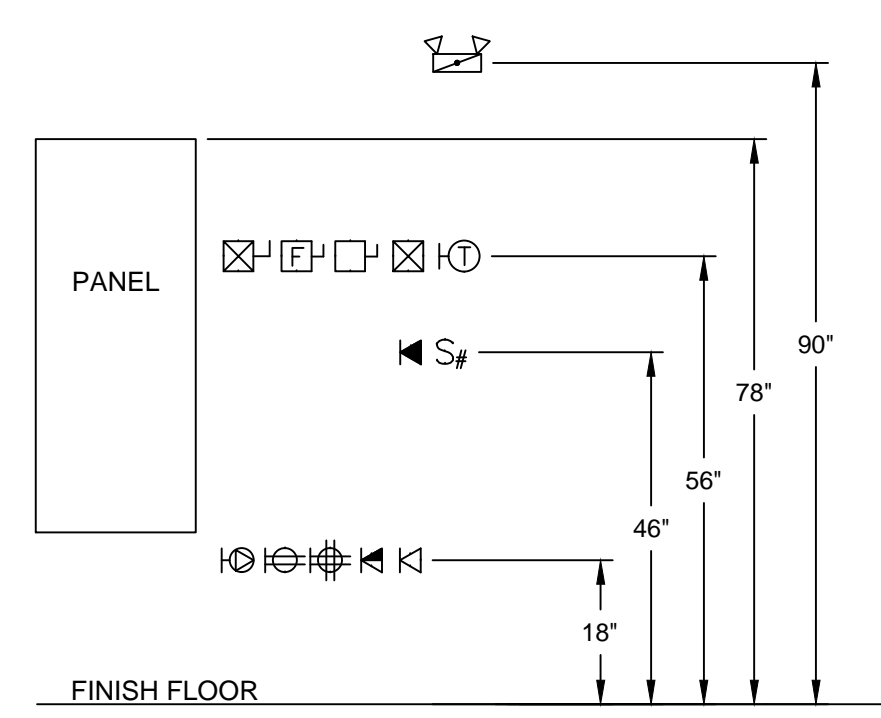
	SINGLE FACE EXIT SIGN. CEILING MOUNTED.
	DOUBLE FACE EXIT SIGN. CEILING MOUNTED.
	SINGLE FACE EXIT SIGN. WALL MOUNTED.
	DOUBLE FACE EXIT SIGN. WALL MOUNTED.
	SINGLE FACE COMBO EXIT SIGN/EMERGENCY LUMINAIRE. WALL MOUNTED.
	ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN.
	LIGHT FIXTURE.
	LIGHT FIXTURE.
	LIGHT FIXTURE.
	SUSPENDED LIGHT FIXTURE.
	WALL MOUNTED FIXTURE.
	WALL SCNCE FIXTURE.
	WALL PACK FIXTURE.
	PENDANT LIGHT FIXTURE.
	RECESSED LIGHT FIXTURE.
	POLE LIGHT 1 HEAD ROUND WITH POLE.
	POLE LIGHT 2 HEAD ROUND WITH POLE.
	POLE LIGHT 1 HEAD SQUARE WITH POLE.
	POLE LIGHT 2 HEAD SQUARE WITH POLE.
	BOLLARD LIGHT.
	DECORATIVE POST-TOP LIGHT.
	SPOT/FLOOD LIGHT.
	EMERGENCY EGRESS LIGHT. WALL MOUNTED.
	EMERGENCY EGRESS LIGHT. CEILING MOUNTED.
	SWITCH. TYPE AS INDICATED. +46" AFF. UNO.
	2 DOUBLE POLE
	3 3-WAY
	4 4-WAY
	D DIMMER
	HP HORSEPOWER RATED
	K KEYED
	LV LOW VOLTAGE
	M MOMENTARY CONTACT
	MM MANUAL MOTOR STARTER
	OS OCCUPANCY SENSOR
	P PILOT LIGHT
	T TIMER
	TO THERMAL OVERLOAD
	V VOLUME CONTROL
	VS VACANCY SENSOR
	a SUPERSCRIFT INDICATES LIGHTS TO BE SWITCHED TOGETHER
	MULTI-LEVEL SWITCHING. TO MEET LIGHT REDUCTION LEVELS PER ENERGY CODE AS SHOWN. PROVIDE ADDITIONAL OR STEP- DIMMING BALLASTS WHERE REQUIRED.
	OCCUPANCY SENSOR. CEILING MOUNTED.
	PHOTOCELL. WALL MOUNTED.
	PHOTOCELL. CEILING MOUNTED.
	TIMECLOCK. WALL MOUNTED.

	BRANCH PANEL.
	CIRCUIT BREAKER. SIZE AND TYPE AS SPECIFIED.
	FUSE. SIZE AND TYPE AS SPECIFIED, PROVIDE FUSE FOR EACH POLE, 3 POLE, UNO.
	METER.
	AMMETER.
	VOLTMETER.
	KIRK KEY LOCK.
	GROUND FAULT PROTECTION.
	TRANSIENT VOLTAGE SURGE SUPPRESSION.
	SHUNT TRIP COIL.
	KILOWATT HOUR METER.
	KILOVAR DEMAND METER.
	TEST BLOCK.
	VARIABLE FREQUENCY DRIVE.
	TRANSFORMER
	TRANSFORMER
	GROUND
	MOTOR
	STARTER

**ABBREVIATIONS**

A	AMPERES
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMPERE FRAME
AFCI	ARC FAULT CIRCUIT INTERRUPT
AHJ	AUTHORITY HAVING JURISDICTION
AT	AMP TRIP
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CEILING MOUNTED
CO	CONDUIT ONLY, PROVIDE PULL-LINE
D	MECHANICAL DUCT-MOUNTED DEVICE
DC	DIRECT CURRENT
DET	DETAIL
E	EMERGENCY
(E)	EXISTING
EF	EXHAUST FAN
EL	EMERGENCY LIGHT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FVNR	FULL VOLTAGE NON-REVERSING
G/GND	GROUND
GFI	GROUND FAULT INTERRUPTION
GFP	GROUND FAULT PROTECTION
H	HEAT
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTO
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
ID	IN-DUCT
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
J/JB	JUNCTION BOX
KW	KILOWATT
KWH	KILOWATT HOUR
M	MAGNETIC CONTACTOR COIL
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
MH	MANHOLE
N	NEUTRAL
NC	NORMALLY CLOSED
NCL	NON CRITICAL LOAD
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OL	OVERLOAD
OS	OCCUPANCY SENSOR
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PHOTOCELL
PVC	POLYVINYL CHLORIDE
RCPT	RECEPTACLE
(R)	RELOCATED
(RE)	REPLACED
SER	SERVICE ENTRANCE RATED
SPST	SINGLE POLE SINGLE THROW
TC	TIME CLOCK
TDR	TIME DELAY RELAY
TJB	TERMINAL JUNCTION BOX
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT AMPERE
WG	PROVIDE PROTECTIVE WIRE GUARD
WP	WEATHER PROOF/NEMA 3R
XFMR	TRANSFORMER

**MOUNTING HEIGHT DETAIL**



**PANEL SCHEDULES**



10/03/2022	ISSUE FOR BID
ISSUE DATE	DESCRIPTION

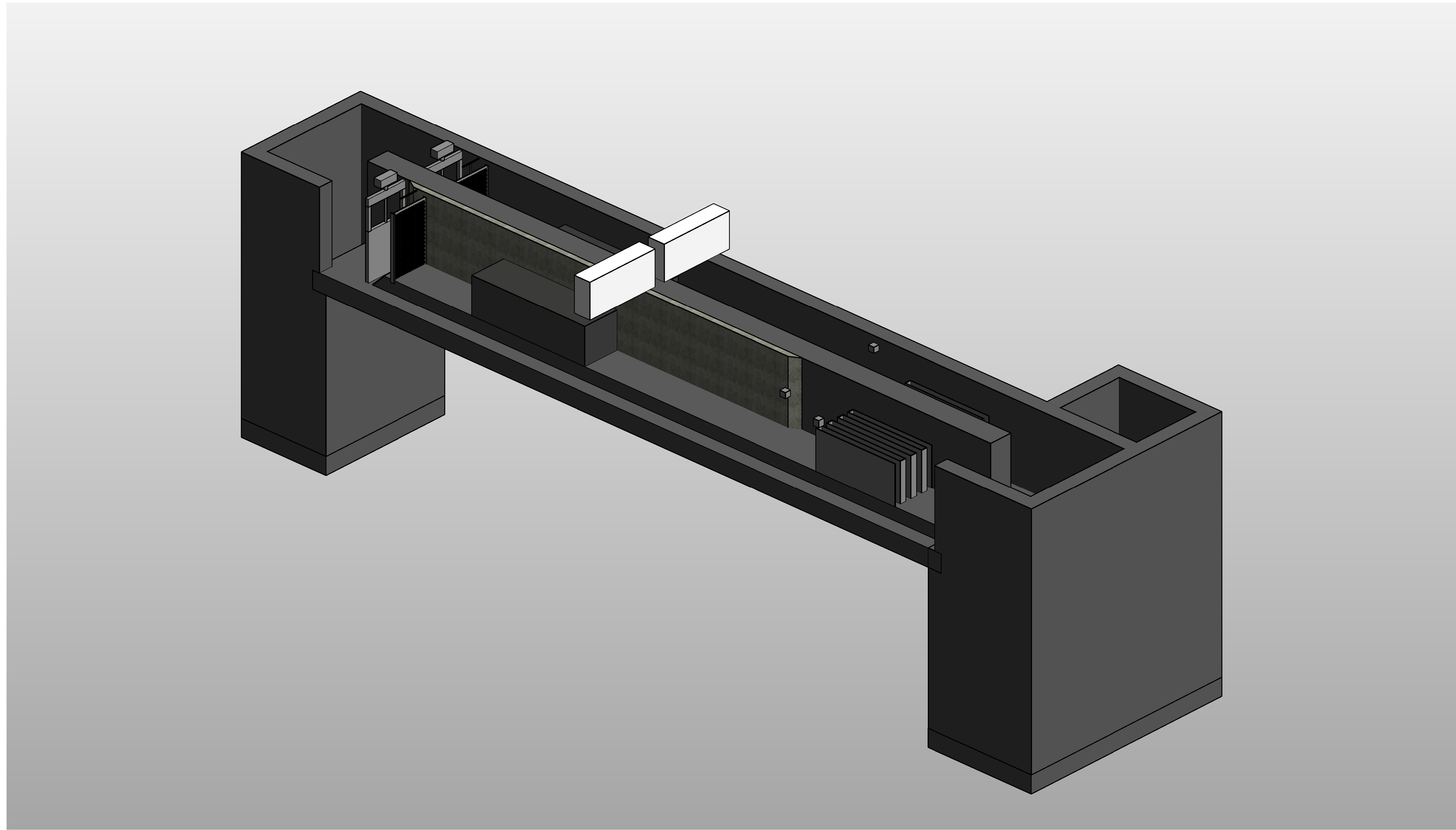
PROJECT MANAGER	BRAD BJERKE
DESIGN BY	B. BJERKE
DRAWN BY	E. SJOBERG
CHECKED BY	P. URSILLO
PROJECT NUMBER	10162649



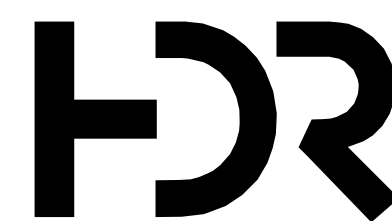
**UV INSTALLATION DRAWINGS**

**ELECTRICAL LEGEND**

FILENAME  
SCALE



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ISSUE DATE	DESCRIPTION
10/03/2022	ISSUE FOR BID

PROJECT MANAGER	BRAD BJERKE
DESIGN BY	B. BJERKE
DRAWN BY	E. SJOBERG
CHECKED BY	P. URSILLO
PROJECT NUMBER	10162649

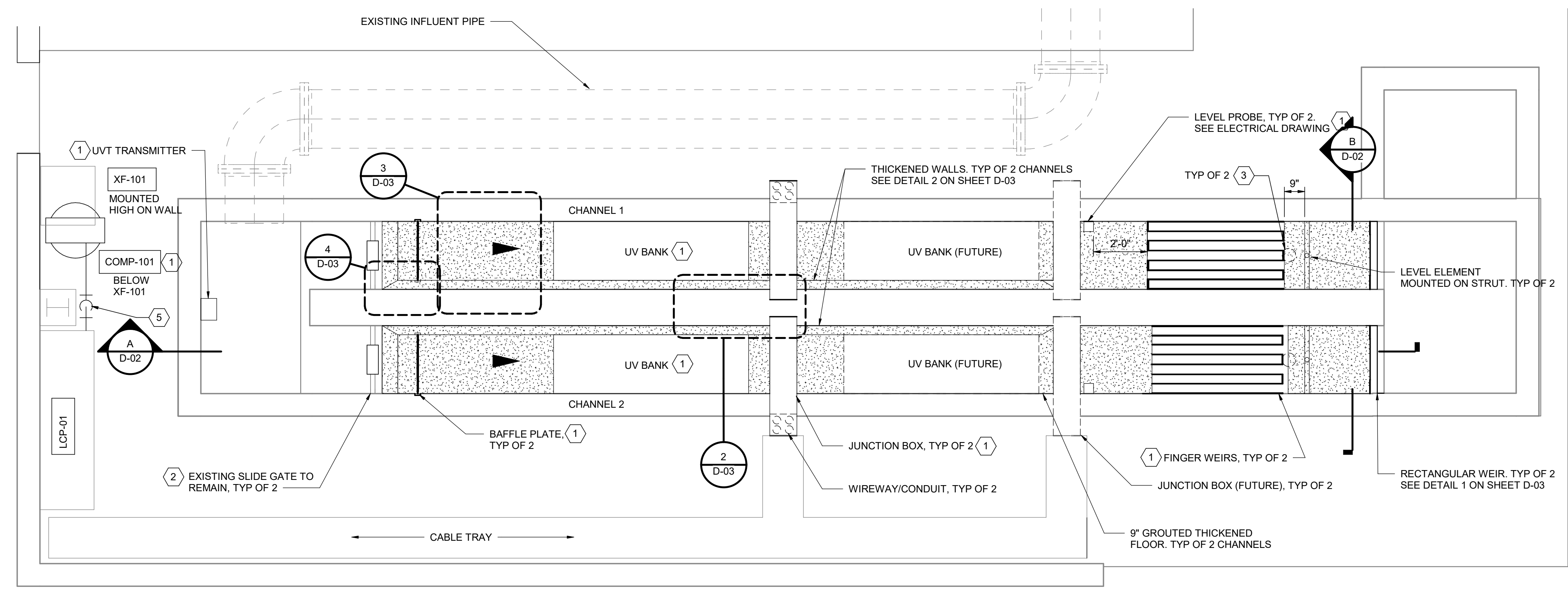


### CITY OF HAILEY UV INSTALLATION



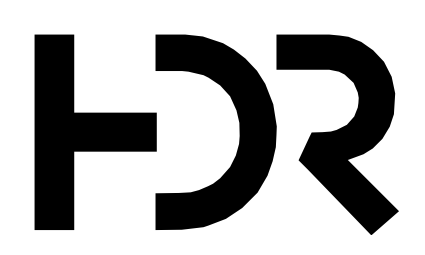
### UV INSTALLATION ISOMETRIC

FILENAME | HDRE\_ALL\_DISCIPLINES.rvt | SHEET  
SCALE | | D-00



- GENERAL NOTES:**
- SEE 05C104 FOR YARD PIPING CONTINUATION.
- KEY NOTES:** (X)
- OWNER SUPPLIED EQUIPMENT. SEE MANUFACTURERS SHOP DRAWINGS FOR DETAILED INSTALLATION REQUIREMENTS.
  - REMOVE MANUAL HANDWHEEL FROM EXISTING SLIDE GATES AND REPLACE WITH NEW ELECTRICALLY ACUTATED OPERATOR. TYP OF 2.
  - REMOVE EXISTING 6" MUD VALVE AND RETURN TO OWNER. PLUG EXISTING 6" C.I. PIPE AT BOTH ENDS OF AND ABANDON IN PLACE.
  - REMOVE EXISTING GRATING FOR INSTALLATION OF UV EQUIPMENT. MODIFY ACCORDINGLY. ADD 1/8" THICK CHECKER PLATE OVER UV BANKS (NOT FUTURE BANKS).
  - 3/8" AIR TUBING FROM COMPRESSOR CONNECTION UP TO CABLE TRAY. ROUTE IN CABLE TRAY TO UV JUNCTION BOX. USE COMPRESSION FITTINGS.

1 UV INSTALLATION PLAN  
3/8" = 1'-0"

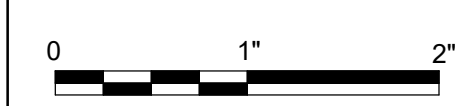


10/03/2022	ISSUE FOR BID
ISSUE DATE	DESCRIPTION

PROJECT MANAGER	BRAD BJERKE
DESIGN BY	B. BJERKE
DRAWN BY	E. SJOBERG
CHECKED BY	P. URSILLO
PROJECT NUMBER	10162649



CITY OF HAILEY  
UV  
INSTALLATION



UV INSTALLATION PLAN

FILENAME	HDRE_ALL_DISCIPLINES.rvt
SCALE	3/8" = 1'-0"

SHEET  
D-01

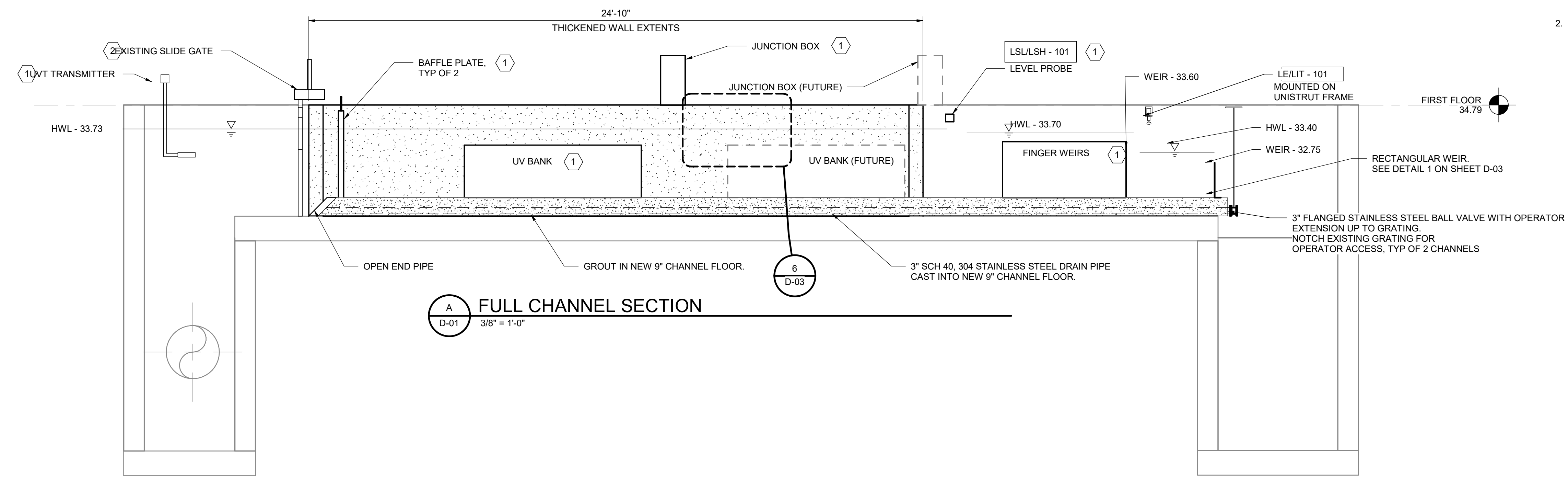


**GENERAL NOTES:**

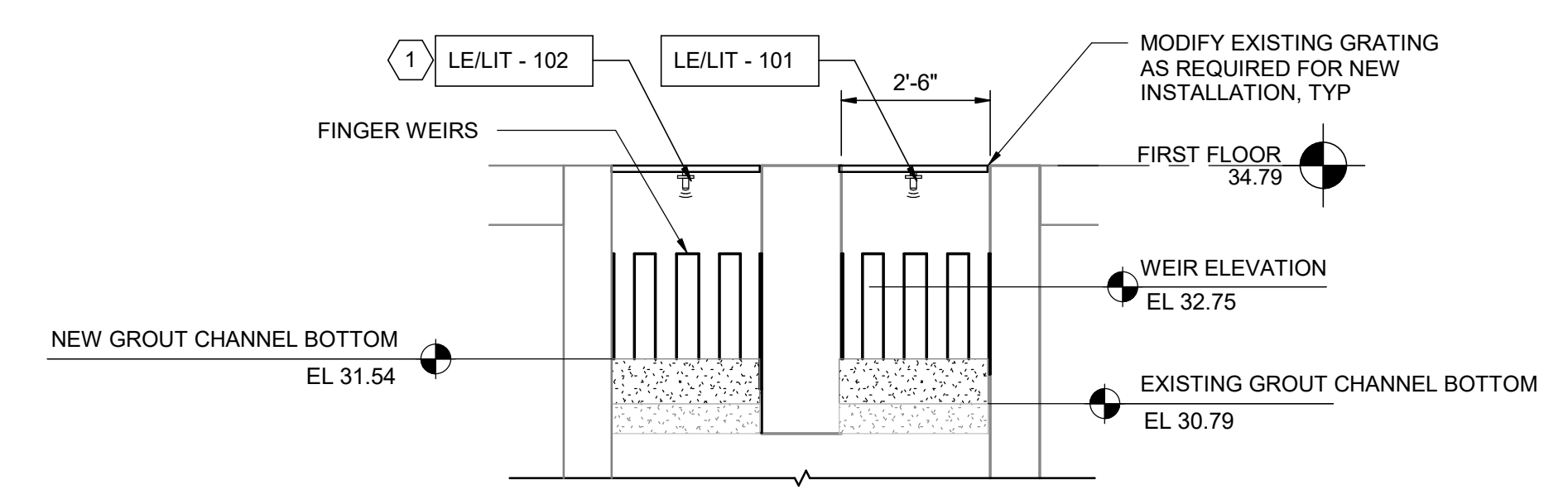
1. SEE 05C104 FOR YARD PIPING CONTINUATION.

**KEY NOTES:** (X)

1. OWNER SUPPLIED EQUIPMENT. SEE MANUFACTURERS SHOP DRAWINGS FOR DETAILED INSTALLATION REQUIREMENTS.
2. REMOVE MANUAL HANDWHEEL FROM EXISTING GATE AND REPLACE WITH NEW ELECTRICALLY ACUTATED OPERATOR.

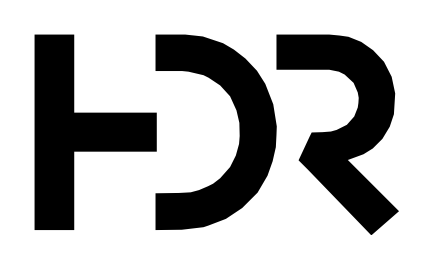


**A FULL CHANNEL SECTION**  
3/8" = 1'-0"



**B WEIR SECTION**  
3/8" = 1'-0"

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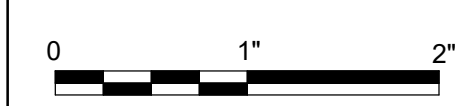
10/03/2022	ISSUE FOR BID
ISSUE DATE	DESCRIPTION

PROJECT MANAGER	BRAD BJERKE
DESIGN BY	B. BJERKE
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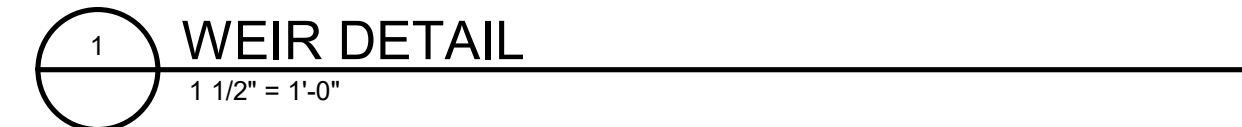
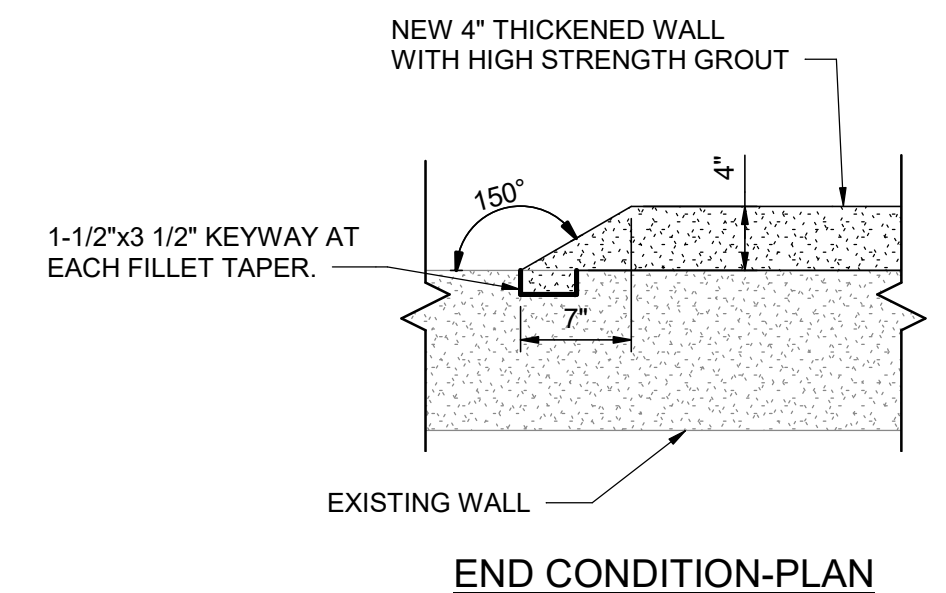
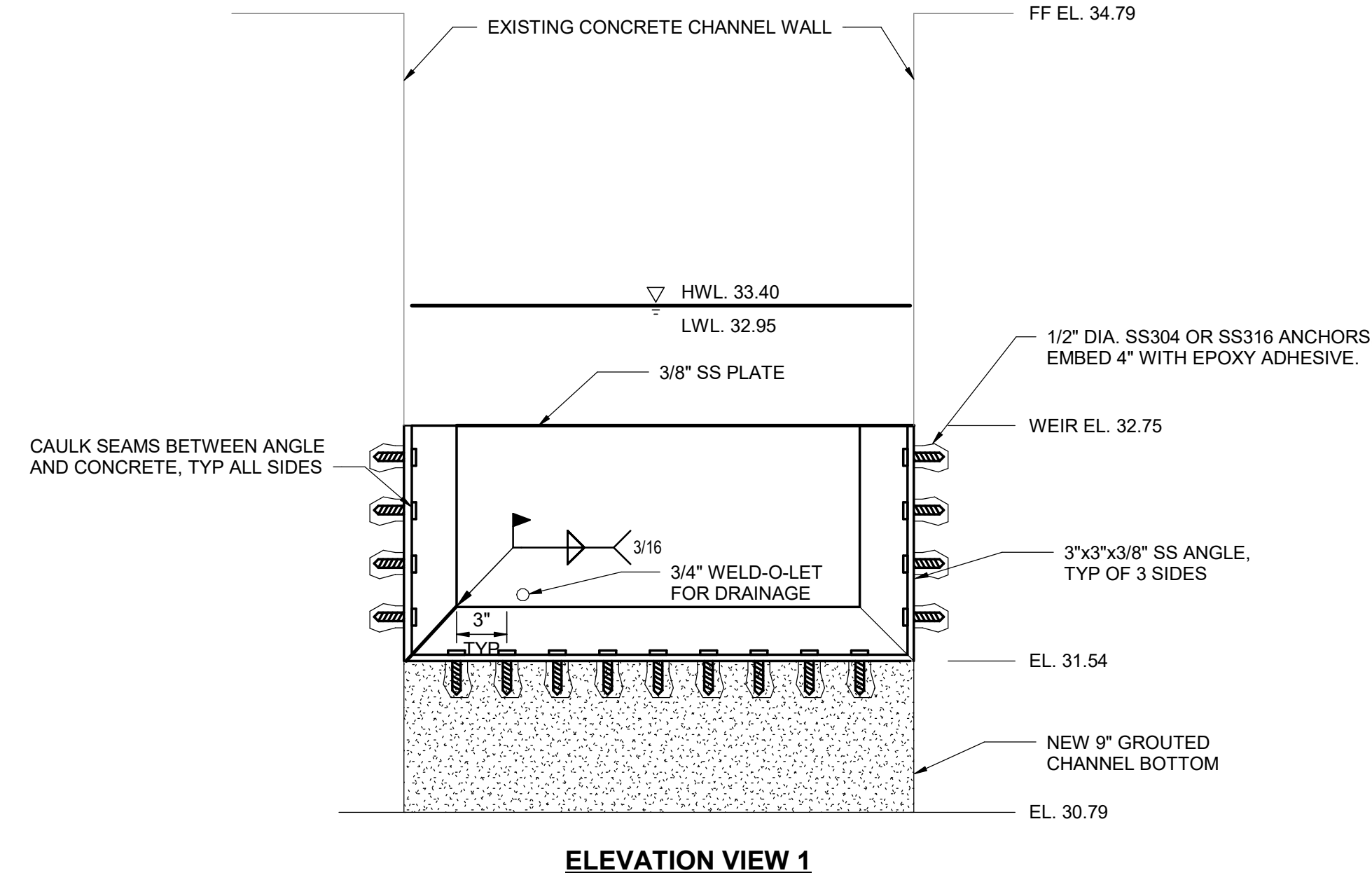
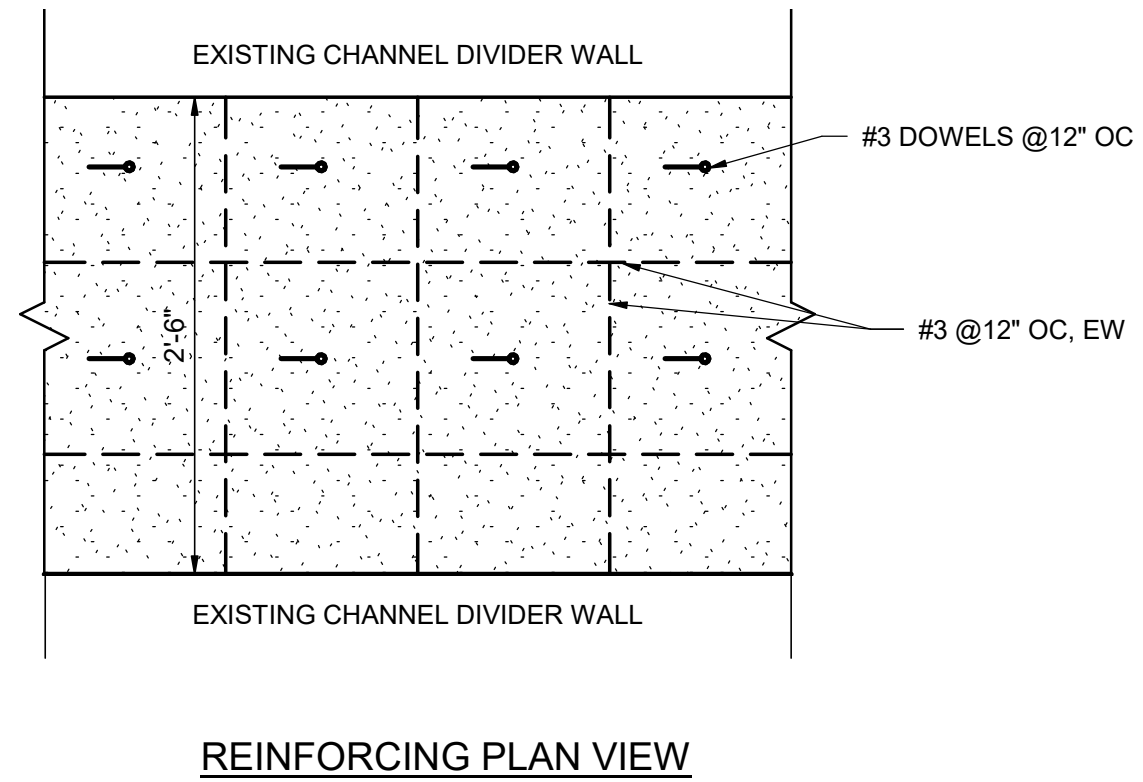
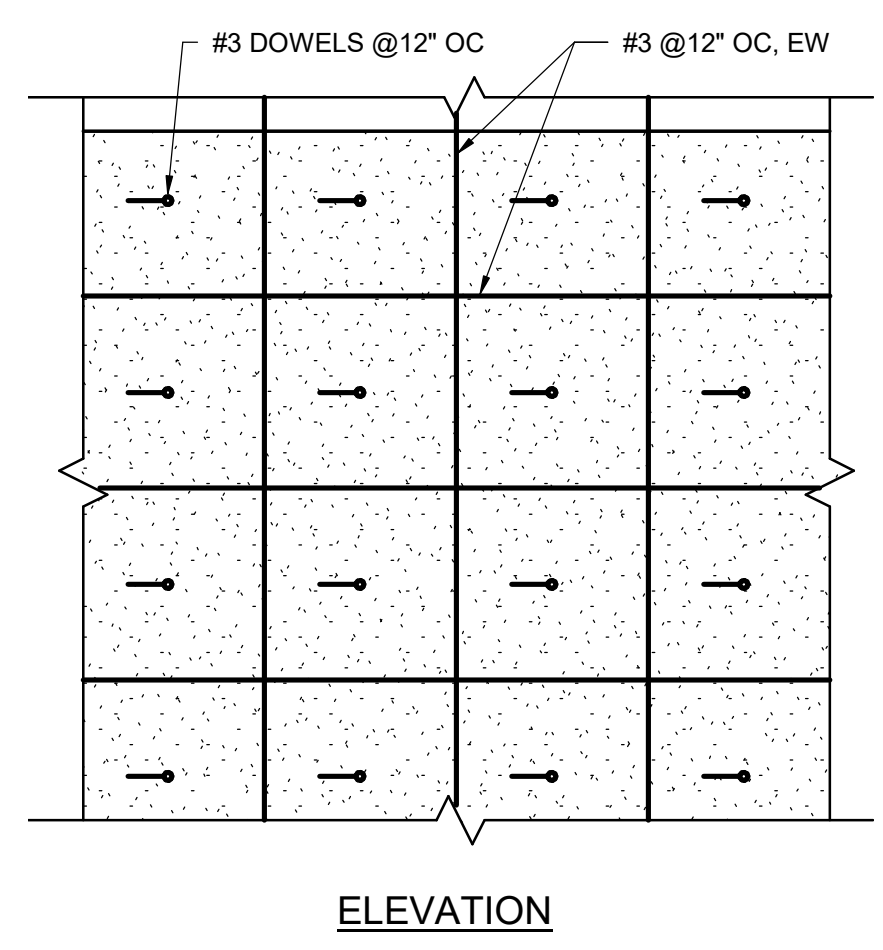
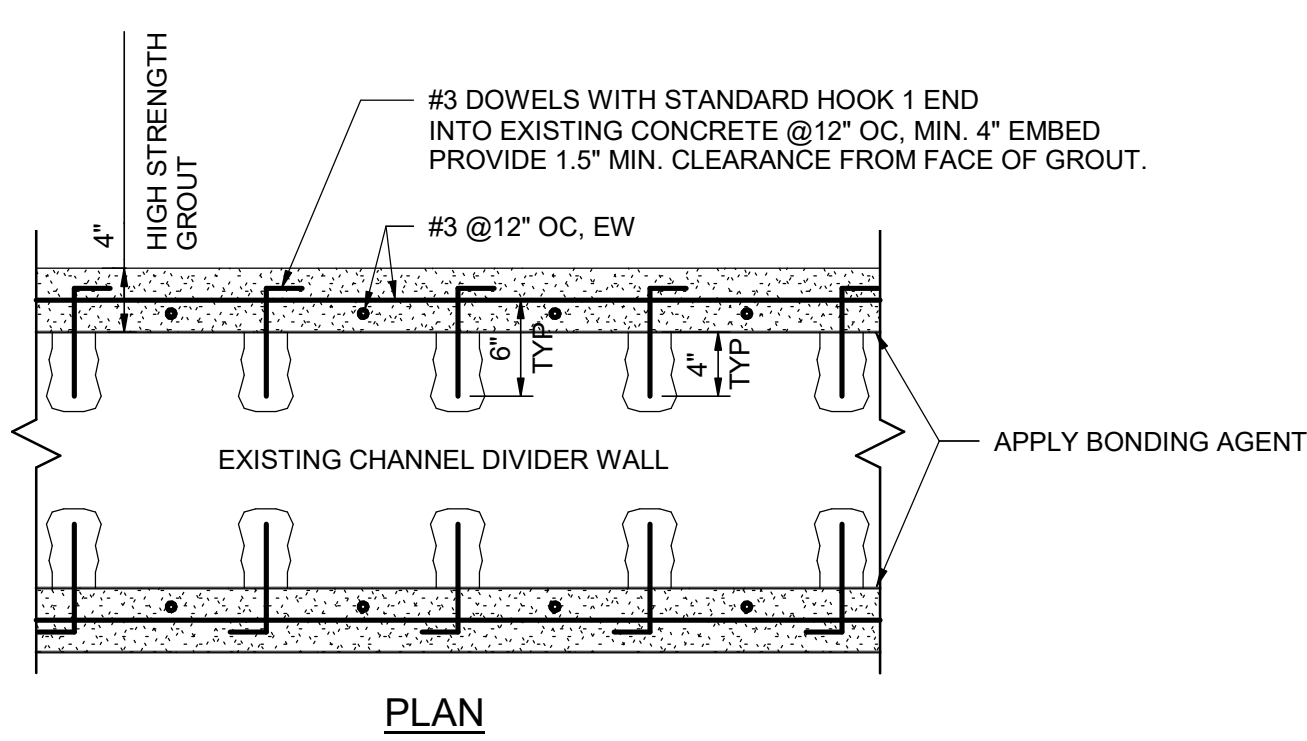
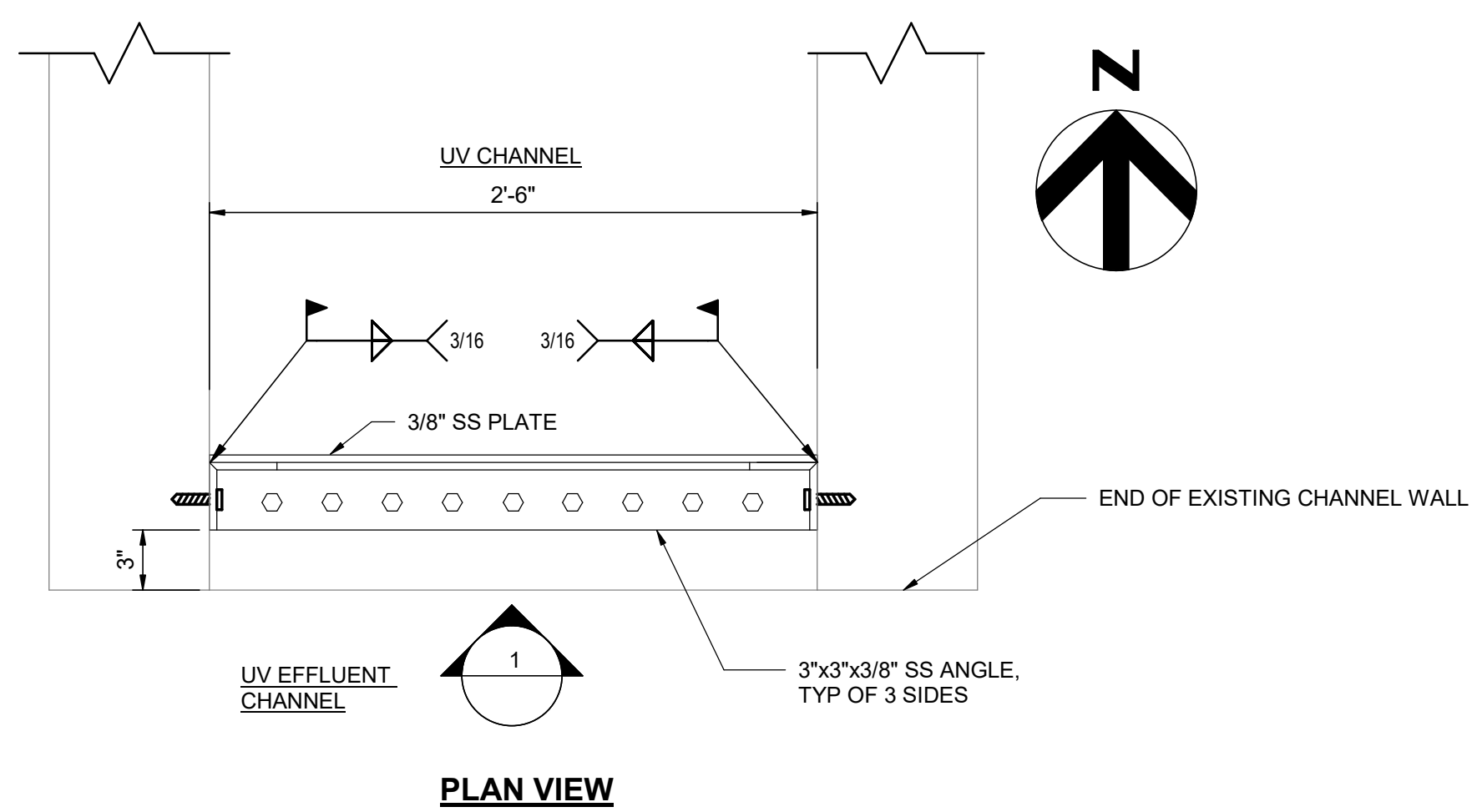
**CITY OF HAILEY  
UV  
INSTALLATION**

**UV INSTALLATION SECTIONS**

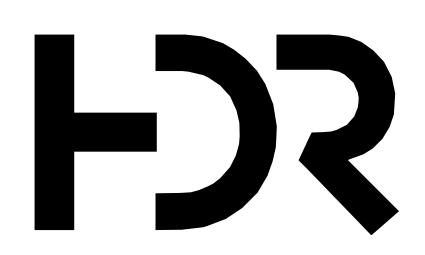


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SCALE	3/8" = 1'-0"

SHEET  
**D-02**



- GENERAL NOTES:**
- SEE 05C104 FOR YARD PIPING CONTINUATION.
- KEY NOTES:** (X)
- SEE MANUFACTURERS SHOP DRAWINGS FOR DETAILED INSTALLATION REQUIREMENTS.
  - NEW THICKENED WALL AND FLOOR TO BE TROWELED SMOOTH SURFACE. GROUT AND GRIND SMOOTH ANY BUG HOLES.

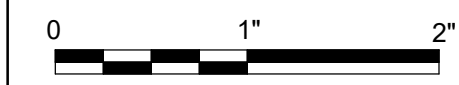


10/03/2022	ISSUE FOR BID
ISSUE DATE	DESCRIPTION

PROJECT MANAGER	BRAD BJERKE
DESIGN BY	B. BJERKE
DRAWN BY	E. SJOBERG
CHECKED BY	P. URSILLO
PROJECT NUMBER	10162649



**CITY OF HAILEY  
UV  
INSTALLATION**



**UV INSTALLATION DETAILS**

FILENAME	HDRE_ALL_DISCIPLINES.rvt
SCALE	As indicated

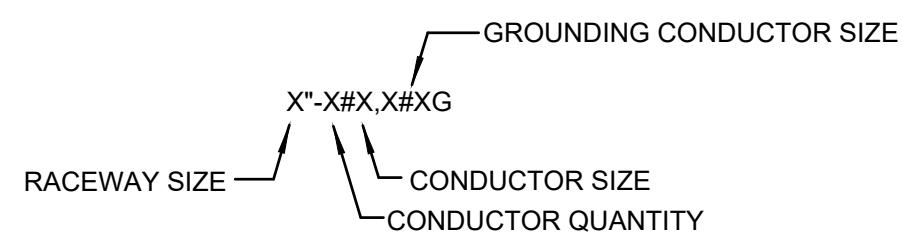
SHEET  
**D-03**

ONE LINE, POWER AND LIGHTING SYMBOLOGY

ELECTRICAL SHEET INDEX

	LOW - VOLTAGE CIRCUIT BREAKER (CB). RATING AND NO. OF POLES AS SHOWN. WHEN SPECIFIED TYPE, OTHER THAN MCCB, IS REQUIRED, X INDICATES TYPE.
	GROUND FAULT PROTECTION
	FUSE, SIZE, AND NUMBER OF FUSES AS NOTED
	FUSIBLE SWITCH, CURRENT RATING, FUSE SIZE, AND QUANTITY AS NOTED
	NON-FUSED SWITCH, CURRENT RATING, AND NUMBER OF POLES AS NOTED
	DISCONNECT OR DRAWOUT CONNECTION
	SEPARATELY MOUNTED COMBINATION MOTOR STARTER OR CONTROLLER; SEE ELECTRICAL ONE - LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION
	SEPARATELY MOUNTED MOTOR STARTER OR CONTROLLER; SEE ELECTRICAL ONE-LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION
	DISCONNECT OR SAFETY SWITCH, 30A, 3P, NON-FUSED UNLESS OTHERWISE NOTED
	FUSED DISCONNECT OR SAFETY SWITCH, 3P. X INDICATES AMP RATING GREATER THAN 30A, Y INDICATES FUSE SIZE
	SEPARATELY MOUNTED CIRCUIT BREAKER; SEE ELECTRICAL ONE - LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION
	MOTOR WITH DESIGN HORSEPOWER (WHEN INDICATED)
	TRANSFORMER
	3-PHASE, 3-WIRE DELTA CONNECTION
	3-PHASE, 4-WIRE GROUNDED WYE CONNECTION
	SWITCHBOARD OR PANELBOARD; NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED
	NON-MOTOR LOAD WITH DESIGN KVA, KW, OR AMP
	VOLTAGE TRANSFORMER (VT OR PT)
	CURRENT TRANSFORMER (CT)
	GROUND
	LOW VOLTAGE SURGE PROTECTIVE DEVICE
	ELECTRICAL AND/OR CONTROL PANEL INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT. SEE PLANS FOR PHYSICAL SIZING AS APPLICABLE.
	JUNCTION OR PULL BOX
	SPECIAL PURPOSE OUTLET. VERIFY SIZE AND TYPE WITH EQUIPMENT SUPPLIER. AMPACITY AS INDICATED OR AS NOTED OTHERWISE.

	CONNECTION POINT TO EQUIPMENT SPECIFIED, FURNISHED AND INSTALLED UNDER OTHER SECTIONS. ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY, CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION, UNLESS NOTED OTHERWISE.
	QUAD-DUPLEX RECEPTACLE, TWO NEMA 5-20R UNDER COMMON COVER PLATE. 3/4" CONDUIT WITH 2#12 AND 1#12 GROUND UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE, NEMA 5-20R. 3/4" CONDUIT WITH 2#12 AND 1#12 GROUND UNLESS NOTED OTHERWISE.
<b>SUBSCRIPTS:</b> X - INDICATES TYPE GFCI - GROUND FAULT CIRCUIT INTERRUPTER Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD	
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	HOME RUN TO PANEL, 2 #12, 1 #12G IN 3/4" C UNLESS OTHERWISE NOTED
	CIRCUIT RUN BETWEEN DEVICES EXPOSED IN NON-ARCHITECTURALLY FINISHED AREAS; CONCEALED IN ARCHITECTURALLY FINISHED AREAS. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.
	CONDUIT RUN BETWEEN DEVICES CONCEALED IN NON-ARCHITECTURALLY FINISHED AREAS OR UNDER FLOOR SLAB. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.
	CIRCUIT HASH MARKS (WHEN INDICATED); LONG, SHORT, SINGLE DOT, AND DOUBLE DOT REPRESENT PHASE, NEUTRAL, EQUIPMENT GROUND, AND ISOLATED EQUIPMENT GROUND, RESPECTIVELY. #12 IN 3/4" CONDUIT UNLESS OTHERWISE INDICATED. IF NO HASH MARKS SHOWN, 2#12 AND 1#12 GROUND UNLESS OTHERWISE NOTED.
	CIRCUIT CONTINUATION
	CONDUIT STUBBED OUT AND CAPPED
	GROUND CABLE
	GROUND ROD



GENERAL NOTES:

- THIS IS A STANDARD ELECTRICAL SYMBOLOGY SHEET. NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
- SEE P&ID LEGEND SHEET FOR PROJECT-SPECIFIC EQUIPMENT SYMBOLS, EQUIPMENT ABBREVIATIONS, AND PIPING SYSTEM ABBREVIATIONS.

	SINGLE FACE EXIT SIGN. CEILING MOUNTED.
	DOUBLE FACE EXIT SIGN. CEILING MOUNTED.
	SINGLE FACE EXIT SIGN. WALL MOUNTED.
	DOUBLE FACE EXIT SIGN. WALL MOUNTED.
	SINGLE FACE COMBO EXIT SIGN/EMERGENCY LUMINAIRE. WALL MOUNTED.
	ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN.
	LIGHT FIXTURE.
	WALL MOUNTED FIXTURE.
	WALL PACK FIXTURE.
	RECESSED LIGHT FIXTURE.
	POLE LIGHT 1 HEAD SQUARE WITH POLE.
	POLE LIGHT 2 HEAD SQUARE WITH POLE.
	EMERGENCY EGRESS LIGHT. WALL MOUNTED.
	EMERGENCY EGRESS LIGHT. CEILING MOUNTED.
	SWITCH. TYPE AS INDICATED. +46" AFF, UNO.
	2 DOUBLE POLE 3 3-WAY 4 4-WAY D DIMMER HP HORSEPOWER RATED K KEYED LV LOW VOLTAGE M MOMENTARY CONTACT MM MANUAL MOTOR STARTER OS OCCUPANCY SENSOR P PILOT LIGHT T TIMER TO THERMAL OVERLOAD V VOLUME CONTROL VS VACANCY SENSOR a SUPERScript INDICATES LIGHTS TO BE SWITCHED TOGETHER
	MULTI-LEVEL SWITCHING, TO MEET LIGHT REDUCTION LEVELS PER ENERGY CODE AS SHOWN. PROVIDE ADDITIONAL OR STEP-DIMMING BALLASTS WHERE REQUIRED.
	OCCUPANCY SENSOR. CEILING MOUNTED.
	PHOTOCELL. WALL MOUNTED.
	PHOTOCELL. CEILING MOUNTED.
	TIMECLOCK. WALL MOUNTED.
	SINGLE BUTTON, WALL MOUNTED PUSHBUTTON. MOUNT AT SWITCH HEIGHT UNO.

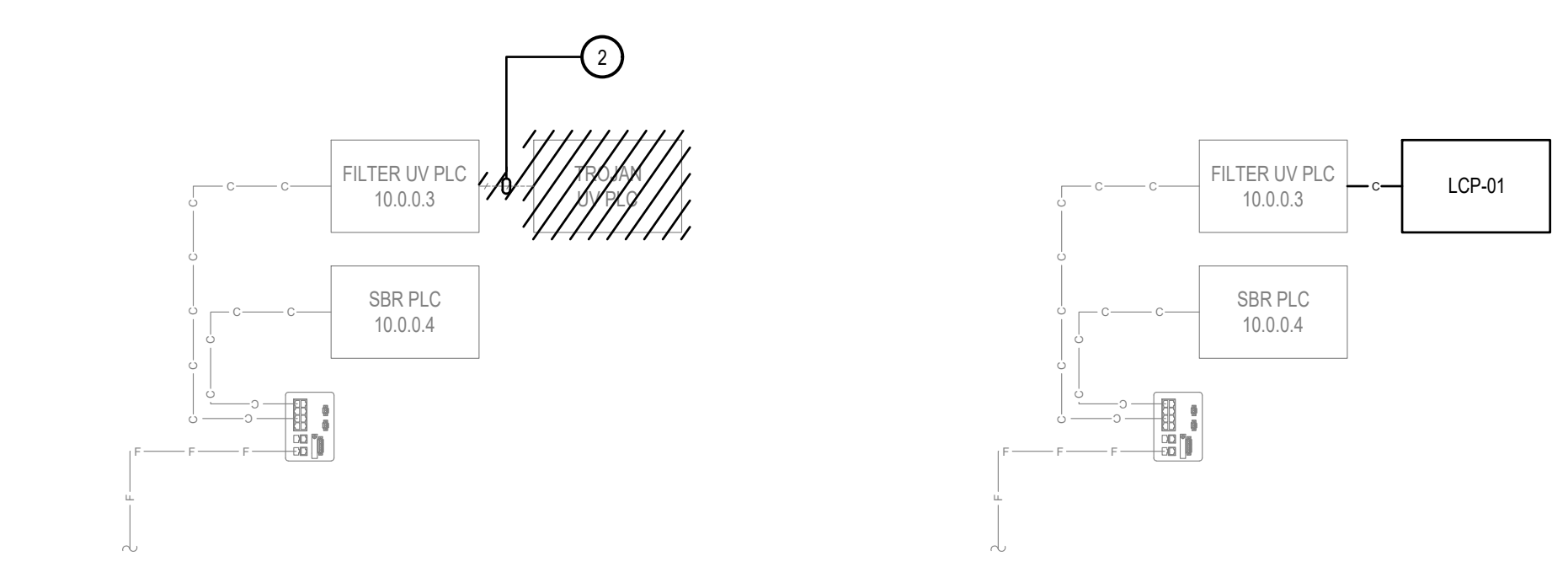
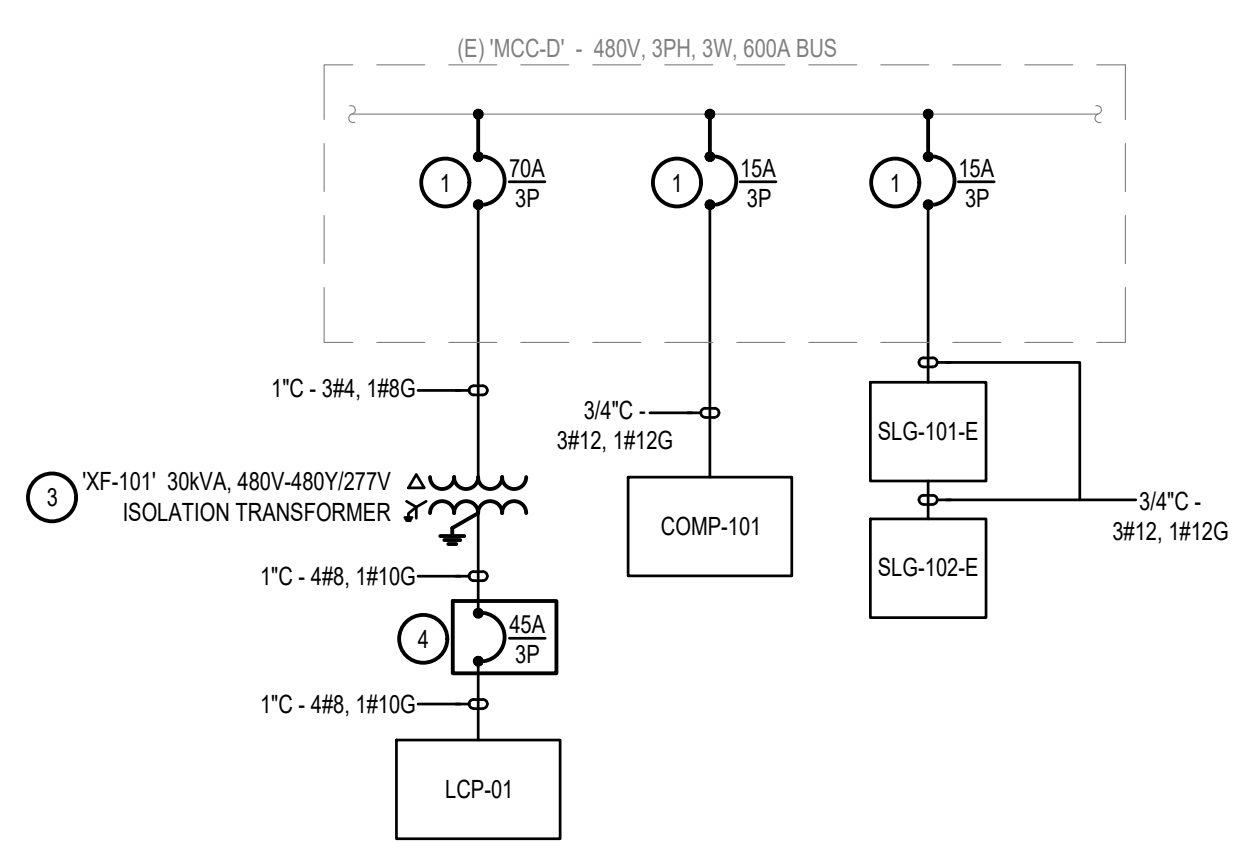
E-001	ELECTRICAL COVER SHEET
E-002	ONE-LINE AND NETWORK DIAGRAMS
E-003	UV SYSTEM PLAN
<b>ABBREVIATIONS</b>	
A	AMPERES
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMPERE FRAME
AFCI	ARC FAULT CIRCUIT INTERRUPT
AHJ	AUTHORITY HAVING JURISDICTION
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CC	CRASH CART
CKT	CIRCUIT
CL	CRITICAL LOAD
CM	CEILING MOUNTED
CO	CONDUIT ONLY, PROVIDE PULL-LINE
CP	CONTROL PANEL
D	MECHANICAL DUCT-MOUNTED DEVICE
DC	DIRECT CURRENT
DET	DETAIL
(E)	EXISTING
EF	EXHAUST FAN
EL	EMERGENCY LIGHT
EWIC	ELECTRIC WATER COOLER
EWIH	ELECTRIC WATER HEATER
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FVNR	FULL VOLTAGE NON-REVERSING
G/GND	GROUND
GFI	GROUND FAULT INTERRUPTION
GFP	GROUND FAULT PROTECTION
HH	HANDHOLE
HOA	HAND OFF AUTO
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
ID	IN-DUCT
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
INT	INTERCOM
JJB	JUNCTION BOX
KW	KILOWATT
KWH	KILOWATT HOUR
M	MAGNETIC CONTACTOR COIL
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
MTS	MANUAL TRANSFER SWITCH
N	NEUTRAL
NC	NORMALLY CLOSED
NCL	NON CRITICAL LOAD
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OL	OVERLOAD
OS	OCCUPANCY SENSOR
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PHOTOCELL
PVC	POLYVINYL CHLORIDE
RCPT	RECEPTACLE
(R)	RELOCATED
(RE)	REPLACED
SER	SERVICE ENTRANCE RATED
SF	SUPPLY FAN
SPST	SINGLE POLE SINGLE THROW
TC	TIME CLOCK
TDR	TIME DELAY RELAY
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TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT AMPERE
VFD	VARIABLE FREQUENCY DRIVE
WG	PROVIDE PROTECTIVE WIRE GUARD
WP	WEATHER PROOF/NEMA 3R
XFMR	TRANSFORMER

10/03/2022	ISSUE FOR BID
ISSUE DATE	DESCRIPTION

PROJECT MANAGER	BRAD BJERKE
DESIGNED BY	JOHN BARRUTIA
DRAWN BY	CALVIN BURTON
CHECKED BY	JOHN BARRUTIA
PROJECT NUMBER	10162649

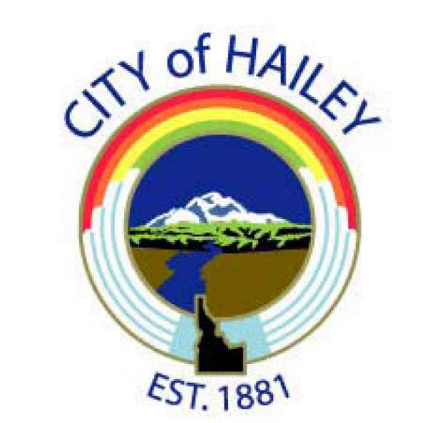
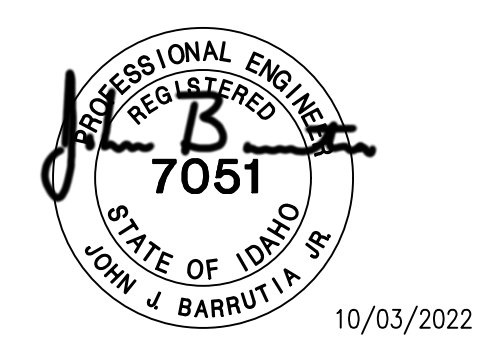
**KEY NOTES:** Ⓝ

1. FURNISH AND INSTALL NEW CIRCUIT BREAKERS SIZED AS SHOWN IN EXISTING SQUARE D MODEL 6 MOTOR CONTROL CENTER, "MCC-D". MODIFY MCC SPACES AS NEEDED FOR INSTALLATION. PROVIDE NEW DOOR COVER AND NAMEPLATE FOR EACH NEW CIRCUIT BREAKER.
2. SIGNALS BETWEEN EXISTING UV PANEL AND FILTER PLC ARE ANALOG AND DIGITAL. HARD-WIRED CONNECTIONS CONSISTING OF UV WEIR TOTALIZATION, UV BANK 1A ON, UV BANK 1B ON, UV BANK 1C ON, AND UV MAJOR ALARM.
3. TRANSFORMER SHALL BE 480V DELTA - 480Y/277V ISOLATION TRANSFORMER IN NEMA 3R ENCLOSURE WITH FULL CAPACITY 2.5% VOLTAGE TAPS, WITH 2 ABOVE, 2 BELOW NORMAL VOLTAGE RATING. PROVIDE WITH WALL BRACKETS AND VIBRATION ISOLATORS TO MINIMIZE AND ISOLATE SOUND TRANSMISSION.
4. ENCLOSED MOLDED CASE THERMAL MAGNETIC CIRCUIT BREAKER SHALL BE 480 VOLTS, 3-PHASE, MINIMUM SCCR OF 42KA, AND BE SUITABLE FOR 75°C RATED CONDUCTORS WITHOUT DERATING BREAKER OR CONDUCTOR AMPACITY. PROVIDE IN NEMA TYPE 1 ENCLOSURE BELOW TRANSFORMER MOUNTED ON THE WALL.



ISSUE DATE	DESCRIPTION
10/03/2022	ISSUE FOR BID

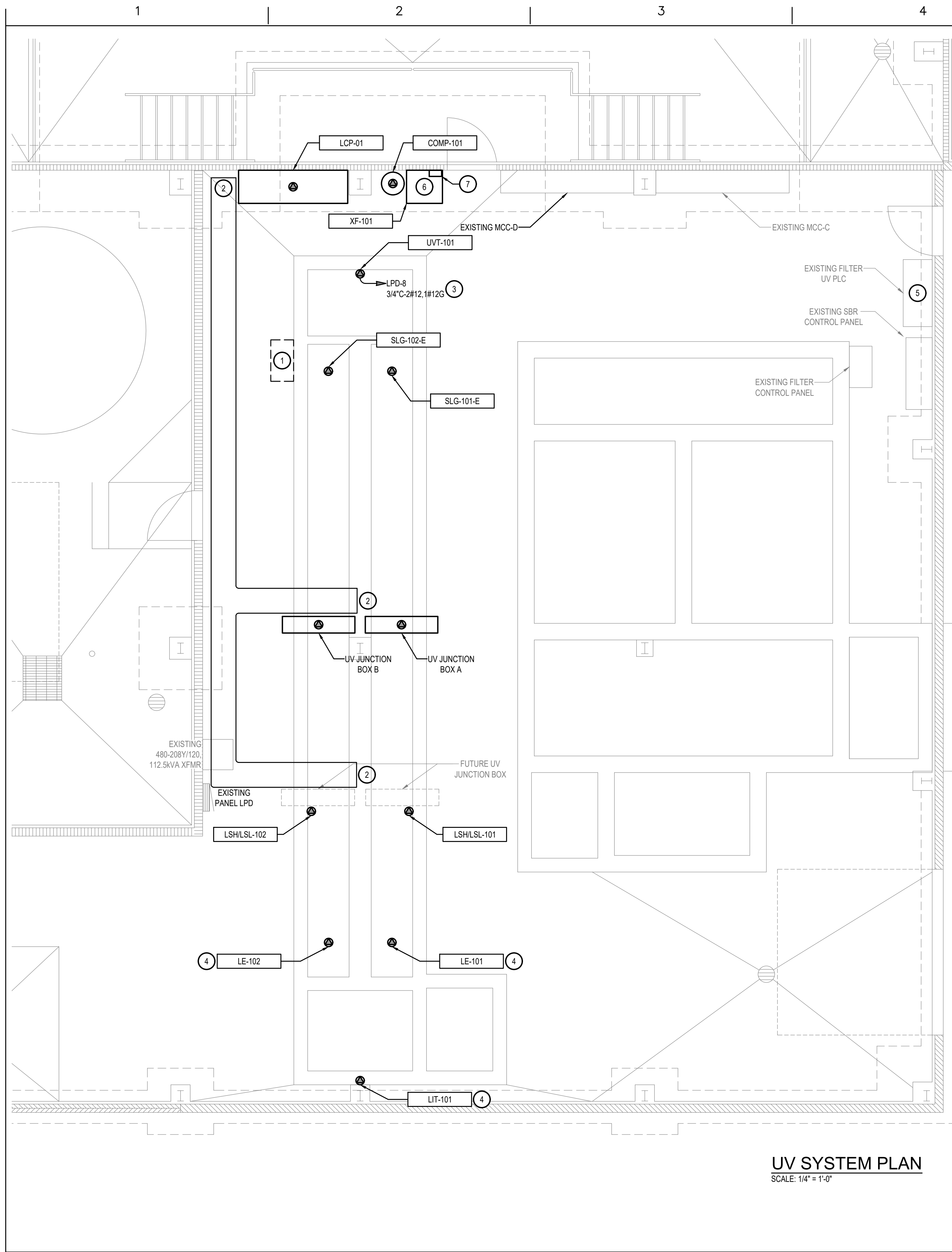
PROJECT MANAGER	BRAD BJERKE
DESIGNED BY	JOHN BARRUTIA
DRAWN BY	CALVIN BURTON
CHECKED BY	JOHN BARRUTIA
PROJECT NUMBER	10162649



**UV INSTALLATION DRAWINGS**

**ONE-LINE & NETWORK DIAGRAMS**





UV SYSTEM PLAN  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

1. NUMBER ADJACENT TO HOME RUN INDICATES POLE POSITION WITHIN PANEL TO WHICH DEVICES SHALL BE CIRCUITED.
2. INSTALL ALL OWNER-SUPPLIED UV EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

**KEY NOTES:**

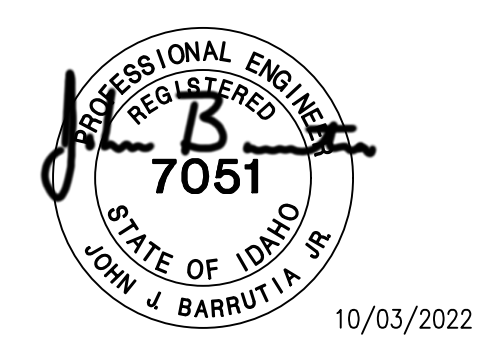
1. EXISTING UV CONTROL PANEL TO BE DEMOLISHED AFTER NEW UV SYSTEM IS OPERATIONAL.
2. ROUTE CABLE TRAY DOWN TO FLOOR TO PROVIDE COMPLETE RACEWAY BETWEEN LCP-01 AND ALL UV JUNCTION BOXES FOR OWNER-FURNISHED UV LAMP CABLES. CABLE TRAY TO BE INSTALLED A MINIMUM OF 10' AFF BEFORE HORIZONTAL TRAVEL.
3. UTILIZE SPARE 15A/1P BREAKER IN EXISTING PANEL LPD.
4. LEVEL TRANSMITTER SHALL BE E&H PROSONIC S FMU90-R21CB212AA1A TRANSMITTER OR APPROVED EQUAL. LEVEL SENSOR SHALL BE E&H PROSONIC S FDU90-2W000 OR APPROVED EQUAL.
5. FURNISH AND INSTALL 24VDC POWER BLOCK AS REQUIRED FOR LEVEL TRANSMITTER POWER SUPPLY. SEE CABLE SCHEDULE.
6. MOUNT TRANSFORMER ABOVE AIR COMPRESSOR ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
7. ENCLOSED CIRCUIT BREAKER, SEE ONE-LINE DIAGRAM.

HAILEY UV CABLE SCHEDULE			
INSTRUMENT/ EQUIPMENT TAG	SERVICE	CONNECTION TO	CONDUCTORS / CABLE IN 3/4" (MIN)
LIT-101	UV CHANNELS A AND B ULTRASONIC FLOW MEASUREMENT		
	CHANNEL FLOWS	(E) FILTER UV PLC	2#18 TSP
LSH/LSL-101	UV CHANNEL A HIGH/LOW LEVEL PROBE		
	LEVEL ALARMS	LCP-01	2#14, 1#14G
LSH/LSL-102	UV CHANNEL B HIGH/LOW LEVEL PROBE		
	LEVEL ALARMS	LCP-01	2#14, 1#14G
SLG-101-E	UV CHANNEL A ACTUATED SLIDE GATE		
	STATUS/CONTROL	LCP-01	9#14, 1#14G
SLG-102-E	UV CHANNEL B ACTUATED SLIDE GATE		
	STATUS/CONTROL	LCP-01	9#14, 1#14G
(E) FILTER UV PLC	SYSTEM COMMUNICATION		
	ALARMS	LCP-01	1" C - 20#14, 1#14G
	FLOW	LCP-01	1#18 TSP
	COMMUNICATION	LCP-01	1#CAT6A
UVT-101	UVT MONITOR		
	UV TRANSMITTANCE	LCP-01	1#18 TSP
	ALARM	LCP-01	2#14, 1#14G
UV JUNCTION BOX A	UV CHANNEL A JUNCTION BOX		
	STATUS/CONTROL	LCP-01	9#14, 1#14G
	WIPER SOLENOID	LCP-01	OWNER-FURNISHED
	UV SENSOR	LCP-01	OWNER-FURNISHED
UV JUNCTION BOX B	UV CHANNEL B JUNCTION BOX		
	STATUS/CONTROL	LCP-01	9#14, 1#14G
	WIPER SOLENOID	LCP-01	OWNER-FURNISHED
	UV SENSOR	LCP-01	OWNER-FURNISHED
	AIR PRESSURE SIGNAL	LCP-01	OWNER-FURNISHED
	LAMP CABLES & MODULE GROUNDING	LCP-01	OWNER-FURNISHED VIA CABLE TRAY



ISSUE DATE	DESCRIPTION
10/03/2022	ISSUE FOR BID

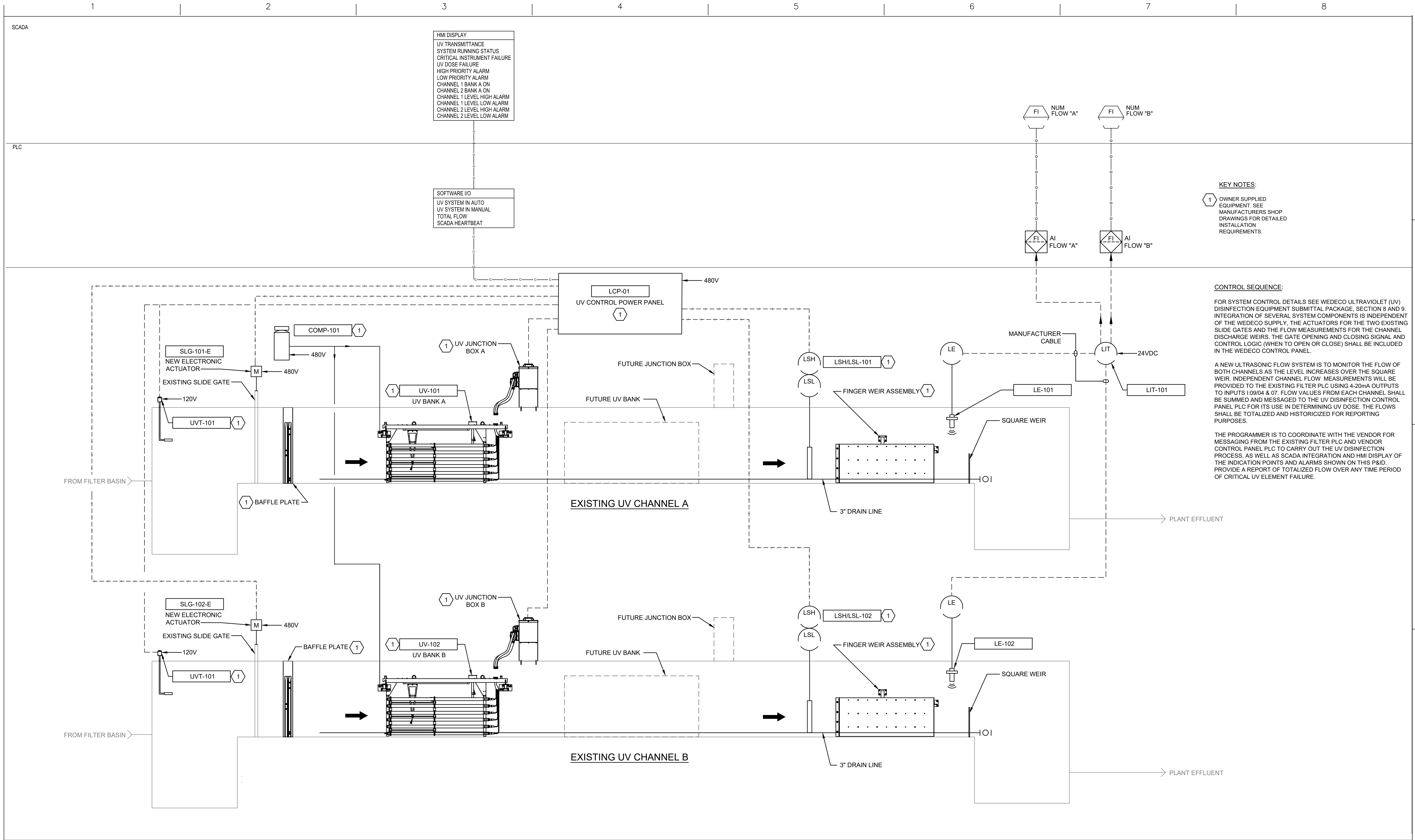
PROJECT MANAGER	BRAD BJERKE
DESIGNED BY	JOHN BARRUTIA
DRAWN BY	CALVIN BURTON
CHECKED BY	JOHN BARRUTIA
PROJECT NUMBER	10162649



UV INSTALLATION DRAWINGS

UV SYSTEM PLAN

FILENAME: \_\_\_\_\_  
SCALE: \_\_\_\_\_



ISSUE DATE	ISSUE FOR BID DESCRIPTION
10/03/2022	ISSUE FOR BID

PROJECT MANAGER	BRAD BJERKE
DESIGN BY	B. BJERKE
DRAWN BY	E. SJOBERG
CHECKED BY	P. URSILLO
PROJECT NUMBER	10162649



**UV INSTALLATION DRAWINGS**

**PROCESS AND INSTRUMENTATION DIAGRAM  
 UV SYSTEM**



FILENAME  
 SCALE