

INSTRUMENTATION / EQUIPMENT TAGS

EXAMPLE INSTRUMENT CALLOUT

INSTRUMENT IDENTIFICATION

EXAMPLE EQUIPMENT CALLOUT

EQUIPMENT IDENTIFICATION

FEATURE NUMBER:

PROCESS NUMBER:

EXAMPLE TAG

INSTRUMENT / EQUIPMENT IDENTIFICATION(1 TO 3 CHARACTERS)

DEVICE TAG NUMBER (3 DIGIT)

UNIT NUMBER IN SEQUENCE (1 DIGIT)

PROCESS NUMBER (1 DIGIT)

FEATURE NUMBER (1 DIGIT)

NOTE:

GENERAL INSTRUMENT OR FUNCTIONAL SYMBOLS

SPECIAL CASE INSTRUMENT OR FUNCTIONAL SYMBOLS

SIGNAL SYSTEM INTERFACES

ANALOG I/O DESIGNATORS

DISCRETE I/O DESIGNATORS

DIGITAL PROTOCOL DESIGNATORS

EQUIPMENT IDENTIFICATION TABLE

INSTRUMENTATION IDENTIFICATION TABLE (ISA)

INSTRUMENTATION LINE SYMBOLOGY

SYSTEM CONTINUATION INTERFACES

P&ID ABBREVIATIONS

NOTES:

0

10/28/20

MDM

ISSUED FOR CONSTRUCTION

REV

DATE

BY

DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER

JOHN ARNE BAKKEN

No. E-16301

ELECTRICAL

STATE OF CALIFORNIA

October 28, 2020

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

McMILLEN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

INSTRUMENTATION AND EQUIPMENT LEGEND

DESIGNED C. CURTIS

DRAWN B. ROONEY

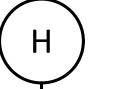
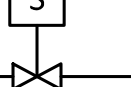
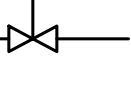
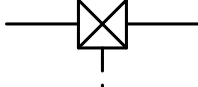
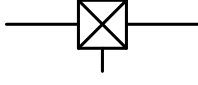
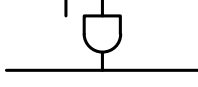
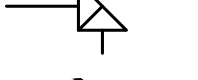
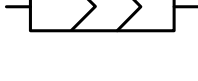
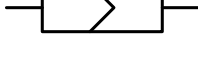
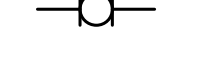
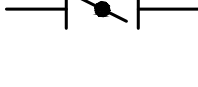
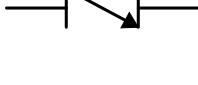
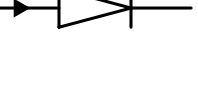
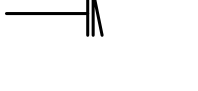
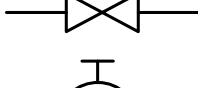
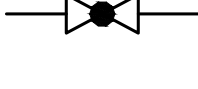
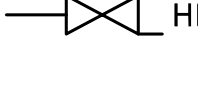
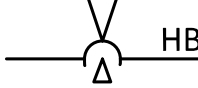
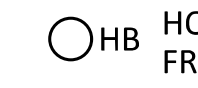
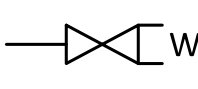
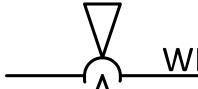
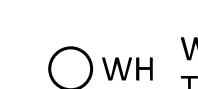
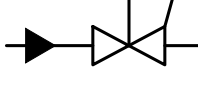
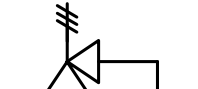
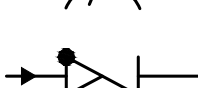
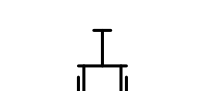
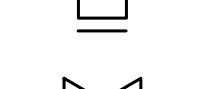
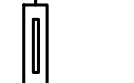
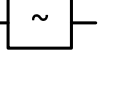
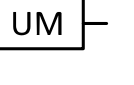
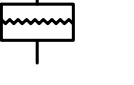
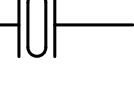
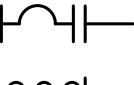
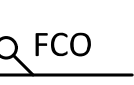
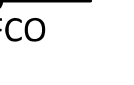
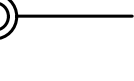
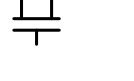
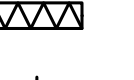
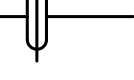
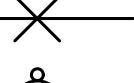
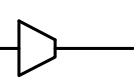
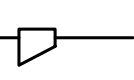
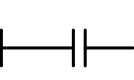
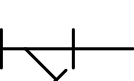
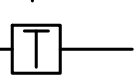
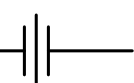
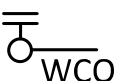
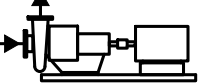
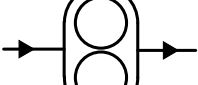
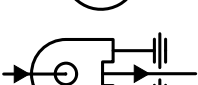
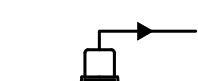
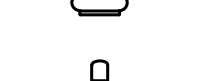
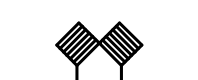
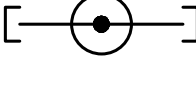
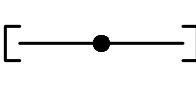
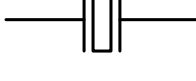
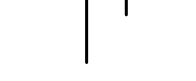
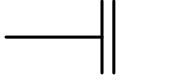
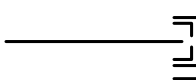
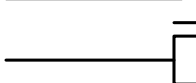
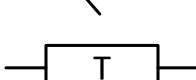
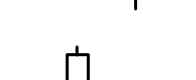
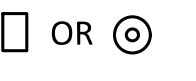
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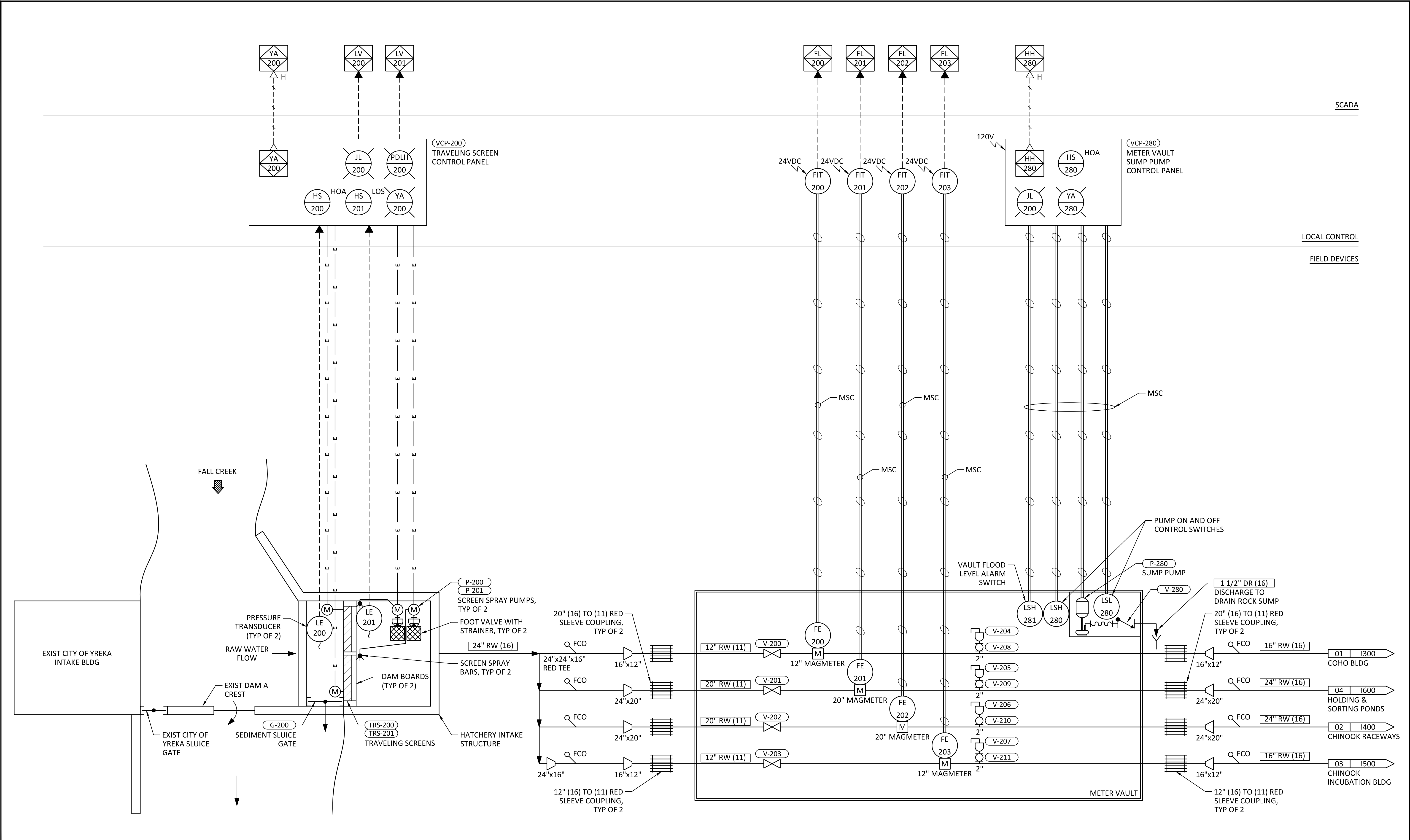
PROJECT DATE 10/28/20

DRAWING

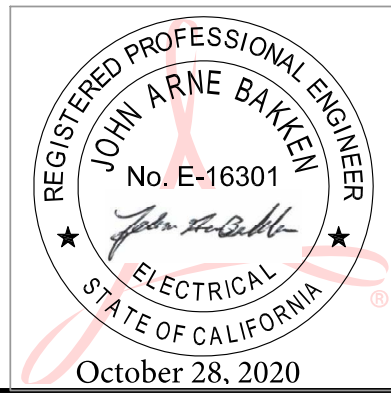
GI001

JOB NO: 000000

VALVE AND GATE ACTUATORS				VALVES				FITTINGS AND ACCESSORIES				PUMPS & COMPRESSORS			
 ELECTRIC ACTUATOR  HYDRAULIC ACTUATOR  PNEUMATIC ACTUATOR  SOLENOID ACTUATOR  MOTOR OPERATOR  HAND / MANUAL ACTUATOR				 3 WAY MULTI-PORT VALVE  4 WAY MULTI-PORT VALVE  AIR VACUUM, AIR RELEASE, OR AIR VACUUM AND AIR RELEASE ASSEMBLY  ANGLE VALVE  ANGLE CHECK VALVE  BACKFLOW PREVENTER VALVE  BACKWATER VALVE  BALL VALVE  BALL CHECK VALVE  BUTTERFLY VALVE  OR  CHECK VALVE  CONE VALVE  FLAP VALVE  GATE VALVE  DIAPHRAGM VALVE  ECCENTRIC PLUG VALVE  GLOBE VALVE  HB  OR  HOSE BIBB FROM TOP, FRONT AND SIDE VIEW  HB  WH  OR  WHARF HYDRANT FROM TOP, FRONT AND SIDE VIEW  WH  NEEDLE VALVE  PRESSURE REGULATING VALVE  PRESSURE RELIEF VALVE  ORIFICE VALVE  STOP CHECK VALVE  TELESCOPING VALVE  PINCH VALVE  HOSE BIB				 CALIBRATION COLUMN  FLOW METER  ULTRASONIC METER  DIAPHRAGM SEAL  DRAIN  EXPANSION JOINT  OR  FLEXIBLE CONNECTION  FCO  FLOOR CLEANOUT  FLOOR DRAIN  FLOOR SINK  HUB DRAIN  LEVEL TRANSMITTER  VOLUMETRIC FEEDER  MECHANICAL TYPE COUPLING  PIPE SUPPORT (PLAN)  PULSATION DAMPENER  REDUCER - CONCENTRIC  REDUCER - ECCENTRIC  REMOVABLE SPOOL PIECE  SLEEVE TYPE COUPLING  STRAINER - WYE TYPE  PRESSURE GAGE  PRESSURE GAGE AND SWITCH WITH DIAPHRAGM SEALS  TRAP  UNION  WCO  WALL CLEANOUT  VERT ELBOW DOWN  VERT ELBOW UP  VERT TEE UP  VERT TEE DOWN				 HORIZONTAL ANSI END SUCTION PUMP  CENTRIFUGAL PUMP  CHEMICAL METERING PUMP  CIRCULATING PUMP  DRUM PUMP  GEAR PUMP OR ROTARY POSITIVE DISPLACEMENT BLOWER  HOSE PUMP  PROGRESSIVE CAVITY PUMP  ROTARY LOBE PUMP  SUBMERSIBLE PUMP  VERTICAL TURBINE PUMP  PISTON DRIVEN COMPRESSOR  COMPRESSOR  MOTORIZED MIXER  LEVEL TRANSMITTER  DIAPHRAGM PUMP  CHEMICAL METERING/TUBING PUMP  CENTRIFUGAL PUMP			
GATES															
 WHEEL GATE (CAST IRON, ALUMINUM OR STAINLESS STEEL)  STOP GATE OR SHEAR GATE															
FITTINGS AND ACCESSORIES															
 ANNULAR SEAL  ATMOSPHERIC VENT  BLIND FLANGE  CAP (THREAD-ON)  CAP (WELD-ON)  QUICK DISCONNECT  MALE QUICK DISCONNECT WITH CAP  FEMALE QUICK DISCONNECT WITH CAP  CONDENSATE TRAP  INJECTOR/EDUCTOR  OR  LEVEL SWITCH  IN-LINE STATIC MIXER  FOOT VALVE WITH STRAINER															



0	10/28/20	MDM	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	



WARNING
0 1/2 1
IF THIS BAR DOES NOT
MEASURE 1" THEN
DRAWING IS NOT TO SCALE.



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>M. SKELTON</u>	DRAWING 1200
FALL CREEK FISH HATCHERY		DRAWN <u>B. ROONEY</u>	
PROCESS & INSTRUMENTATION DIAGRAM INTAKE		CHECKED <u>J. BAKKEN</u>	
		PROJECT DATE <u>10/28/20</u>	

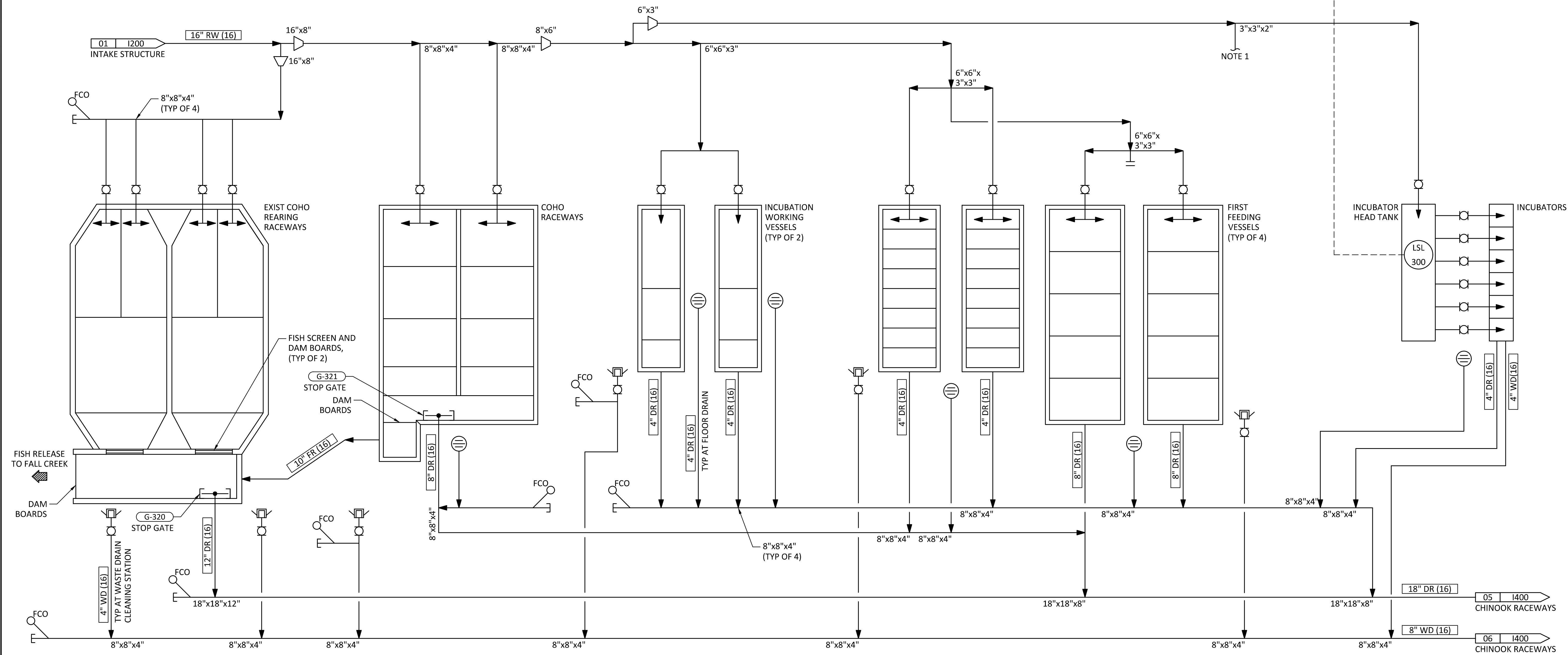
SHEET NOTES:

1. TO UTILITY WATER SYSTEM FOR COHO BUILDING. SEE MECHANICAL DRAWINGS FOR FLOW SCHEMATICS.

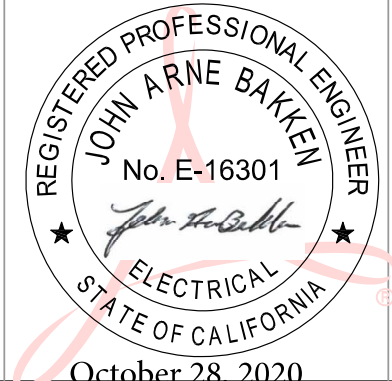
SCADA

LOCAL CONTROL

FIELD DEVICES



REV	DATE	BY	DESCRIPTION
0	10/28/20	MDM	ISSUED FOR CONSTRUCTION



WARNING
0 1/2 1
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KLAMATH RIVER RENEWAL CORPORATION

FALL CREEK FISH HATCHERY

PROCESS & INSTRUMENTATION DIAGRAM
COHO BUILDING

DESIGNED M. SKELTON

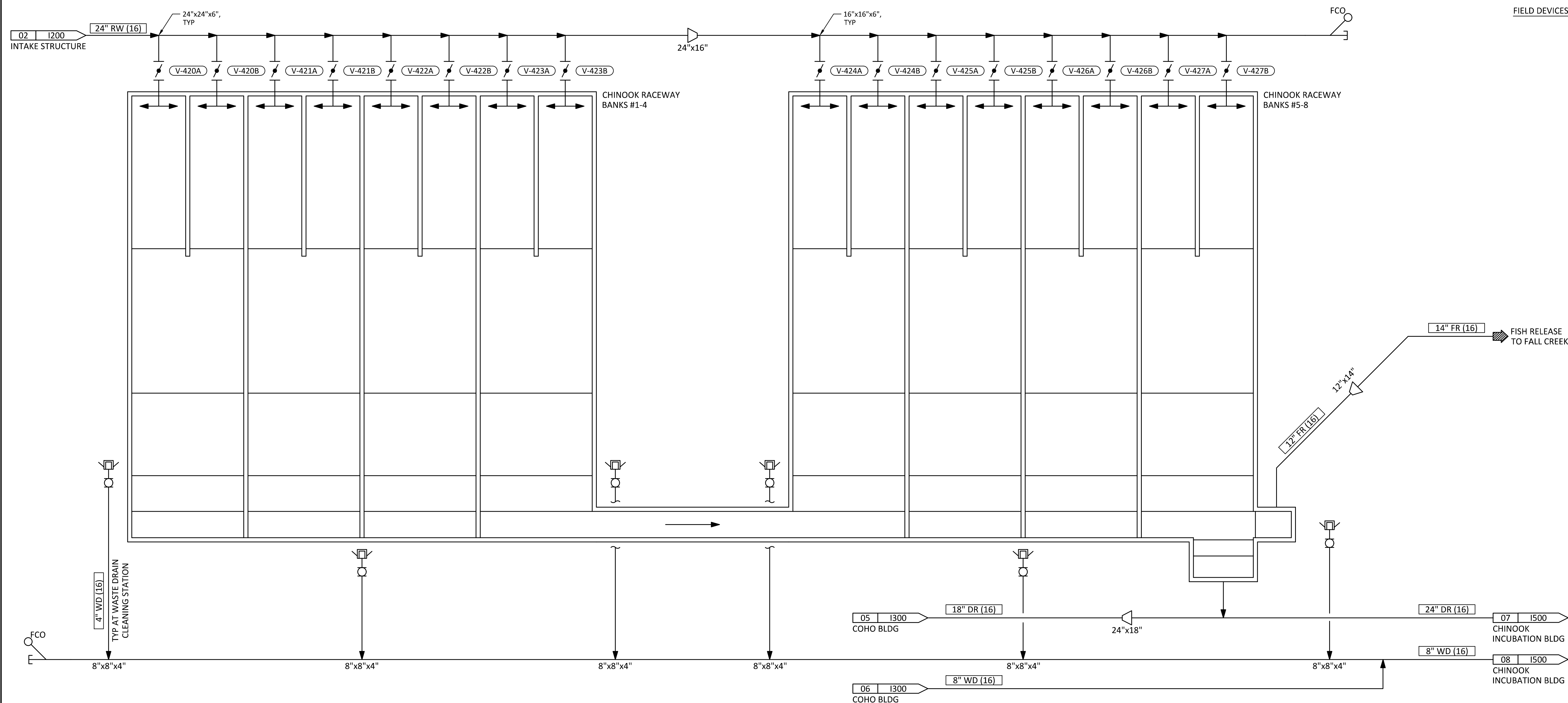
DRAWN B. ROONEY

CHECKED J. BAKKEN

PROJECT DATE 10/28/20

DRAWING

1300



0	10/28/20	MDM	ISSUED FOR CONSTRUCTION	
REV	DATE	BY	DESCRIPTION	



WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>M. SKELTON</u>	DRAWING 1400
FALL CREEK FISH HATCHERY		DRAWN <u>B. ROONEY</u>	
PROCESS & INSTRUMENTATION DIAGRAM CHINOOK RACEWAYS		CHECKED <u>J. BAKKEN</u>	
		PROJECT DATE <u>10/28/20</u>	

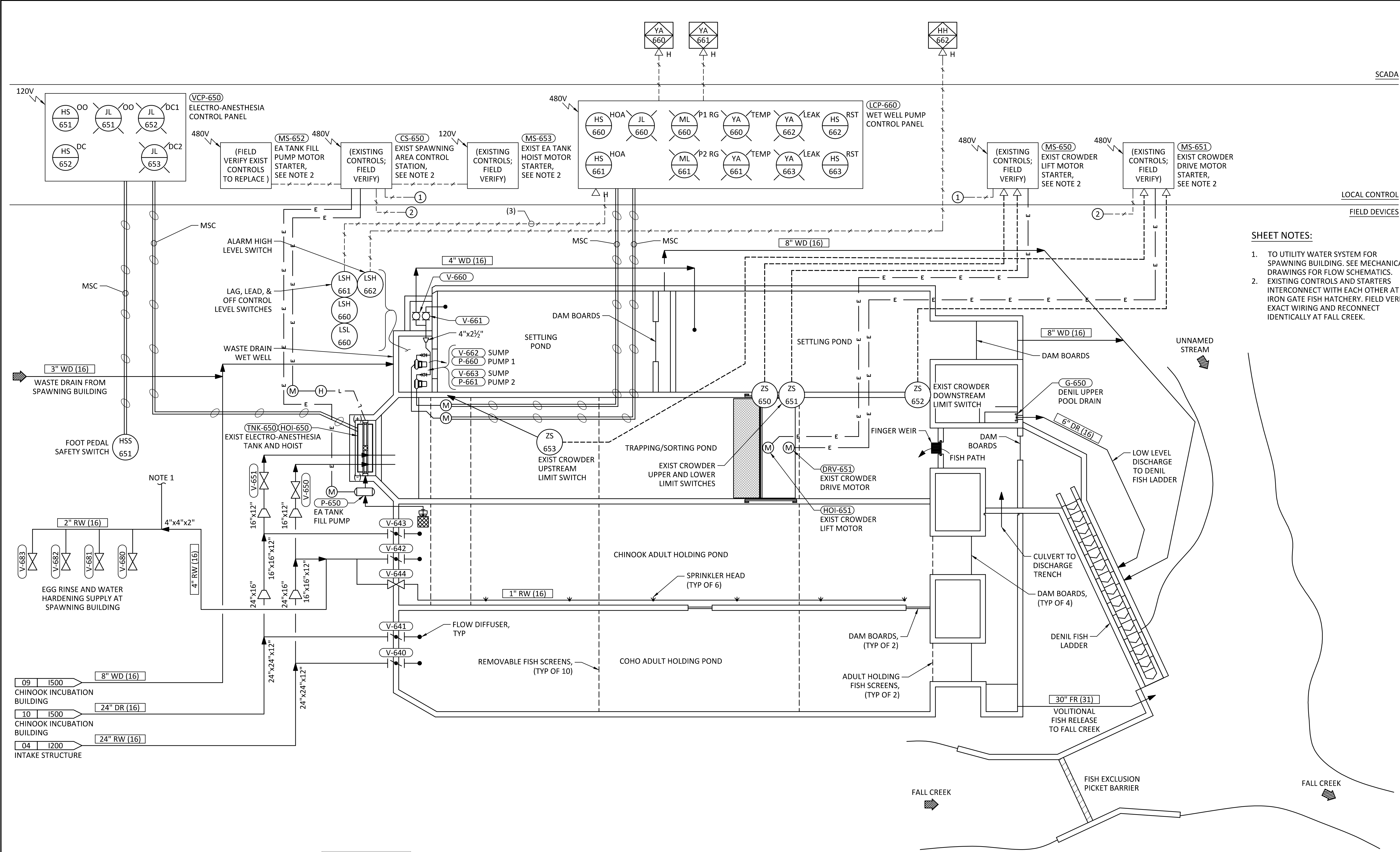
1. TO UTILITY WATER SYSTEM FOR CHINOOK INCUBATION BUILDING. SEE MECHANICAL DRAWINGS FOR FLOW SCHEMATICS.

LOCAL CONTROL

FIELD DEVICES

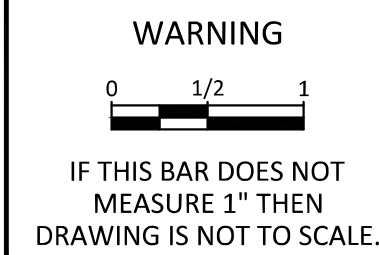
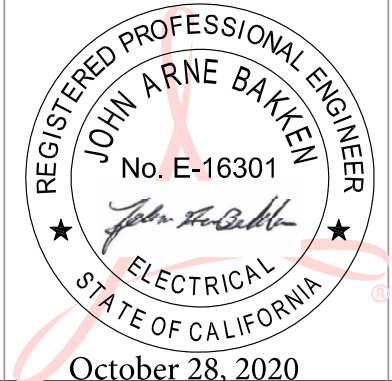
NOTE 1





- SHEET NOTES:**
1. TO UTILITY WATER SYSTEM FOR SPAWNING BUILDING. SEE MECHANICAL DRAWINGS FOR FLOW SCHEMATICS.
 2. EXISTING CONTROLS AND STARTERS INTERCONNECT WITH EACH OTHER AT IRON GATE FISH HATCHERY. FIELD VERIFY EXACT WIRING AND RECONNECT IDENTICALLY AT FALL CREEK.

0	10/28/20	MDM	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION



KLAMATH RIVER RENEWAL CORPORATION		DESIGNED <u>M. SKELTON</u>	DRAWING 1600
FALL CREEK FISH HATCHERY		DRAWN <u>D. JOHNSTON</u>	
PROCESS & INSTRUMENTATION DIAGRAM SETTLING AND ADULT HOLDING PONDS		CHECKED <u>J. BAKKEN</u>	
		PROJECT DATE <u>10/28/20</u>	

Path: C:\Vault20\Klamath River Renewal Corp\Fall Creek Facility\1600.dwg Plot date: Oct 27, 2020 10:57am, CAD User: Guerrero