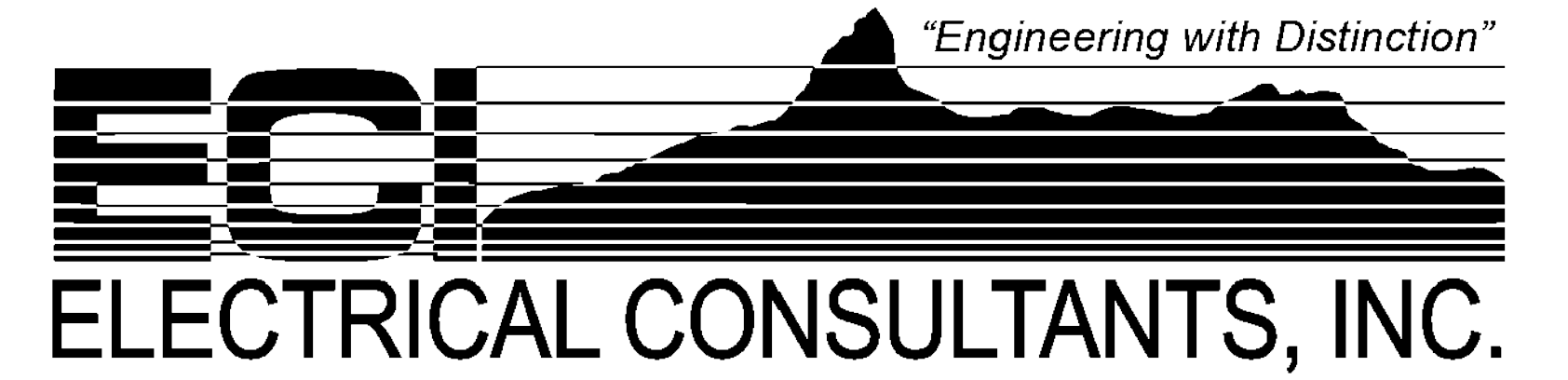




WOODLAND FISH LIFT PASSAGE

WOODLAND PULP, LLC
WOODLAND, MAINE

ISSUED FOR CONSTRUCTION
03/28/2025

REVISION						 ECI ELECTRICAL CONSULTANTS, INC. THIS DRAWING IS THE PROPERTY OF ELECTRICAL CONSULTANTS, INC. AND IS TO BE USED ONLY FOR THE SPECIFIC PROJECT IDENTIFIED ON THE DRAWING. NO REVISIONS SHALL BE MADE WITHOUT THE EXPRESSED WRITTEN CONSENT OF ELECTRICAL CONSULTANTS, INC.	DRAWN BY DATE		WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
REV	DATE	DR	CK	AP	DESCRIPTION		CHECKED BY DATE		COVER SHEET FISH LIFT PASSAGE		
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION		CMM 02/22/2024				
							APPROVED BY DATE		TECHNOLOGY		DRAWING CATEGORY
							CMH 02/22/2024		HYDRO		GENERAL
							SCALE		PROJECT NO.	DWG	REV
						NONE		ARL-007	EE-AA-001	0	

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B	DRAWING LIST							
	REV	DRAWING No.	DRAWING TITLE					
	0	EE-AA-001	COVER SHEET - FISH LIFT PASSAGE					
	0	EE-AB-001	DRAWING LIST - SHEET 1 - FISH LIFT PASSAGE					
	0	EE-AB-002	DRAWING LIST - SHEET 2 - FISH LIFT PASSAGE					
	0	EE-AC-001	BILL OF MATERIALS - FISH LIFT PASSAGE					
	0	EE-AD-001	SYMBOL LEGEND AND NOTES - FISH LIFT PASSAGE					
	0	EE-AE-001	CABLE SCHEDULE - 480VAC POWER CABLES					
	0	EE-AE-002	CABLE SCHEDULE - 208/120VAC POWER CABLES					
	0	EE-AE-003	CABLE SCHEDULE - DIGITAL CONTROL CABLES					
	0	EE-AE-004	CABLE SCHEDULE - ANALOG CONTROL AND COMMUNICATION CABLES					
	0	EE-AE-005	CABLE SCHEDULE - MISC. CABLES					
0	EE-BA-001	ONE LINE DIAGRAM - 480VAC FISH LIFT SERVICE AND POWER DISTRIBUTION						
0	EE-BA-002	ONE LINE DIAGRAM - 208/120VAC POWER DISTRIBUTION						
0	EE-BB-001	NETWORK SYSTEM ARCHITECTURE - FISH LIFT PASSAGE						
0	EE-CA-001	GENERAL ARRANGEMENT PLAN - FISH LIFT PASSAGE SITE						
0	EE-CA-002	GENERAL ARRANGEMENT PLAN - FISH LIFT AREA						
0	EE-CA-003	GENERAL ARRANGEMENT PLAN - DOWNSTREAM FISH BYPASS AREA						
0	EE-CA-004	GENERAL ARRANGEMENT PLAN - EXIT FLUME AND FISH LADDER AREAS						
0	EE-CA-005	GENERAL ARRANGEMENT PLAN - FISH LADDER AREA						
0	EE-CA-007	GENERAL ARRANGEMENT PLAN - FISH LADDER VIEWING BUILDING						
0	EE-CA-008	GENERAL ARRANGEMENT PLAN - FISH LIFT CONTROL BUILDING						
0	EE-CA-009	GENERAL ARRANGEMENT ELEVATION - FISH LIFT CONTROL BUILDING						
0	EE-CB-000	LIGHTING AND POWER LEGEND SHEET - FISH LIFT PASSAGE						
0	EE-CB-001	LIGHTING AND POWER PLAN - FISH LIFT PASSAGE SITE						
0	EE-CB-002	LIGHTING AND POWER PLAN - FISH LIFT AREA						
0	EE-CB-003	LIGHTING AND POWER PLAN - DOWNSTREAM FISH BYPASS AREA						
0	EE-CB-004	LIGHTING AND POWER PLAN - EXIT FLUME AND FISH LADDER AREAS						
0	EE-CB-005	LIGHTING AND POWER PLAN - FISH LADDER AREA						
0	EE-CB-007	LIGHTING AND POWER PLAN - FISH LADDER VIEWING BUILDING						
0	EE-CB-008	LIGHTING AND POWER PLAN - FISH LIFT CONTROL BUILDING						
0	EE-CB-010	LIGHTING AND POWER PLAN - FISH LIFT TOWER - GRADE LEVEL						
0	EE-CB-011	LIGHTING AND POWER PLAN - FISH LIFT TOWER - LOWER LEVELS						
0	EE-CB-012	LIGHTING AND POWER PLAN - FISH LIFT TOWER - MIDDLE LEVELS						
0	EE-CB-013	LIGHTING AND POWER PLAN - FISH LIFT TOWER - UPPER LEVELS						

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A	<table><tr><th colspan="3">DRAWING LIST</th></tr><tr><th>REV</th><th>DRAWING No.</th><th>DRAWING TITLE</th></tr><tr><td></td><td></td><td></td></tr><tr><td>0</td><td>EE-DB-001</td><td>SCHEMATIC WIRING DIAGRAM - SHEET 1 - FISH LIFT E-STOP CIRCUIT</td></tr><tr><td>0</td><td>EE-DB-002</td><td>SCHEMATIC WIRING DIAGRAM - SHEET 2 - FISH LIFT E-STOP CIRCUIT</td></tr><tr><td>0</td><td>EE-DB-003</td><td>SCHEMATIC WIRING DIAGRAM - SHEET 3 - FISH LIFT E-STOP CIRCUIT</td></tr><tr><td></td><td></td><td></td></tr><tr><td>0</td><td>EE-DC-001</td><td>120VAC CONTROL POWER DISTRIBUTION - FISH LIFT CONTROL PANEL (FLCP)</td></tr><tr><td>0</td><td>EE-DC-002</td><td>24VDC CONTROL POWER DISTRIBUTION - FISH LIFT CONTROL PANEL (FLCP)</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>0</td><td>EE-DD-000</td><td>SCHEMATIC - FLCP PLC RACK 0, SLOT 0 - POWER SUPPLY AND CPU</td></tr><tr><td>0</td><td>EE-DD-001</td><td>SCHEMATIC - FLCP PLC RACK 0, SLOT 1 - ETHERNET/IP BRIDGE</td></tr><tr><td>0</td><td>EE-DD-002</td><td>SCHEMATIC - FLCP PLC RACK 0, SLOT 2 - ETHERNET/IP BRIDGE</td></tr><tr><td>0</td><td>EE-DD-003 SH1</td><td>SCHEMATIC - FLCP PLC RACK 0, SLOT 3 - ANALOG INPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-003 SH2</td><td>SCHEMATIC - FLCP PLC RACK 0, SLOT 3 - ANALOG INPUT MODULE (CONT)</td></tr><tr><td>0</td><td>EE-DD-004 SH1</td><td>SCHEMATIC - FLCP PLC RACK 0, SLOT 4 - ANALOG INPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-004 SH2</td><td>SCHEMATIC - FLCP PLC RACK 0, SLOT 4 - ANALOG INPUT MODULE (CONT)</td></tr><tr><td>0</td><td>EE-DD-005</td><td>SCHEMATIC - FLCP PLC RACK 0, SLOT 5 - ANALOG OUTPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-006</td><td>SCHEMATIC - FLCP PLC RACK 0, SLOT 6 - ANALOG OUTPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-007</td><td>SCHEMATIC - FLCP PLC RACK 0, SLOT 7 - DIGITAL INPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-008</td><td>SCHEMATIC - FLCP PLC RACK 0, SLOT 8 - DIGITAL INPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-009</td><td>SCHEMATIC - FLCP PLC RACK 0, SLOT 9 - HIGH-SPEED COUNTER MODULE</td></tr><tr><td>0</td><td>EE-DD-010</td><td>SCHEMATIC - FLCP PLC RACK 1, SLOT 0 - POWER SUPPLY & ETHERNET/IP BRIDGE</td></tr><tr><td>0</td><td>EE-DD-011</td><td>SCHEMATIC - FLCP PLC RACK 1, SLOT 1 - RELAY OUTPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-012</td><td>SCHEMATIC - FLCP PLC RACK 1, SLOT 2 - RELAY OUTPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-013</td><td>SCHEMATIC - FLCP PLC RACK 1, SLOT 3 - RELAY OUTPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-014</td><td>SCHEMATIC - FLCP PLC RACK 1, SLOT 4 - RELAY OUTPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-015</td><td>SCHEMATIC - FLCP PLC RACK 1, SLOT 5 - SLOT FILLER MODULE (SPARE SLOT)</td></tr><tr><td>0</td><td>EE-DD-016</td><td>SCHEMATIC - FLCP PLC RACK 1, SLOT 6 - DIGITAL INPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-017</td><td>SCHEMATIC - FLCP PLC RACK 1, SLOT 7 - DIGITAL INPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-018</td><td>SCHEMATIC - FLCP PLC RACK 1, SLOT 8 - DIGITAL INPUT MODULE</td></tr><tr><td>0</td><td>EE-DD-019</td><td>SCHEMATIC - FLCP PLC RACK 1, SLOT 9 - DIGITAL INPUT MODULE</td></tr><tr><td></td><td></td><td></td></tr><tr><td>0</td><td>EE-DK-001</td><td>ELEMENTARY WIRING DIAGRAM - FISH LIFT ENTRANCE ISOLATION GATE (IG1)</td></tr><tr><td>0</td><td>EE-DK-002</td><td>ELEMENTARY WIRING DIAGRAM - FISH LIFT ENTRANCE GATE (EG2)</td></tr><tr><td>0</td><td>EE-DK-003 SH1</td><td>ELEMENTARY WIRING DIAGRAM - V-GATE A (VG3A)</td></tr><tr><td>0</td><td>EE-DK-003 SH2</td><td>ELEMENTARY WIRING DIAGRAM - V-GATE B (VG3B)</td></tr><tr><td>0</td><td>EE-DK-004 SH1</td><td>ELEMENTARY WIRING DIAGRAM - HOPPER HOIST (HH4)</td></tr><tr><td>0</td><td>EE-DK-004 SH2</td><td>ELEMENTARY WIRING DIAGRAM - HOPPER HOIST (HH4)</td></tr><tr><td></td><td></td><td></td></tr><tr><td>0</td><td>EE-DK-006</td><td>ELEMENTARY WIRING DIAGRAM - EXIT FLUME ISOLATION GATE (IG6)</td></tr><tr><td>0</td><td>EE-DK-007</td><td>ELEMENTARY WIRING DIAGRAM - AWS US ISOLATION VALVE (AWS57)</td></tr><tr><td>0</td><td>EE-DK-008</td><td>ELEMENTARY WIRING DIAGRAM - DS PASSAGE AWS ISOLATION VALVE (AWS58)</td></tr><tr><td>0</td><td>EE-DK-009</td><td>ELEMENTARY WIRING DIAGRAM - AWS DS ISOLATION VALVE (AWS59)</td></tr><tr><td>0</td><td>EE-DK-010</td><td>ELEMENTARY WIRING DIAGRAM - EXIT FLUME DS BYPASS ISOLATION GATE (IG10)</td></tr><tr><td>0</td><td>EE-DK-011</td><td>ELEMENTARY WIRING DIAGRAM - P&W ENTRANCE OVERSHOT WEIR GATE (OWG11)</td></tr><tr><td>0</td><td>EE-DK-012</td><td>ELEMENTARY WIRING DIAGRAM - P&W ENTRANCE ISOLATION GATE (IG12)</td></tr><tr><td>0</td><td>EE-DK-013</td><td>ELEMENTARY WIRING DIAGRAM - P&W EXIT OVERSHOT WEIR GATE (OWG13)</td></tr><tr><td>0</td><td>EE-DK-014</td><td>ELEMENTARY WIRING DIAGRAM - DS BYPASS KNIFE GATE VALVE (DSG14)</td></tr><tr><td>0</td><td>EE-DK-015</td><td>ELEMENTARY WIRING DIAGRAM - DS BYPASS KNIFE GATE VALVE (DSG15)</td></tr><tr><td>0</td><td>EE-DK-016</td><td>ELEMENTARY WIRING DIAGRAM - DS BYPASS ISOLATION GATE (DSG16)</td></tr><tr><td>0</td><td>EE-DK-017</td><td>ELEMENTARY WIRING DIAGRAM - P&W EXIT ISOLATION GATE (IG17)</td></tr><tr><td>0</td><td>EE-DK-018</td><td>ELEMENTARY WIRING DIAGRAM - TRAP GATE (TG18)</td></tr><tr><td>0</td><td>EE-DK-019</td><td>ELEMENTARY WIRING DIAGRAM - TRAP GATE (TG19)</td></tr></table>				DRAWING LIST			REV	DRAWING No.	DRAWING TITLE				0	EE-DB-001	SCHEMATIC WIRING DIAGRAM - SHEET 1 - FISH LIFT E-STOP CIRCUIT	0	EE-DB-002	SCHEMATIC WIRING DIAGRAM - SHEET 2 - FISH LIFT E-STOP CIRCUIT	0	EE-DB-003	SCHEMATIC WIRING DIAGRAM - SHEET 3 - FISH LIFT E-STOP CIRCUIT				0	EE-DC-001	120VAC CONTROL POWER DISTRIBUTION - FISH LIFT CONTROL PANEL (FLCP)	0	EE-DC-002	24VDC CONTROL POWER DISTRIBUTION - FISH LIFT CONTROL PANEL (FLCP)							0	EE-DD-000	SCHEMATIC - FLCP PLC RACK 0, SLOT 0 - POWER SUPPLY AND CPU	0	EE-DD-001	SCHEMATIC - FLCP PLC RACK 0, SLOT 1 - ETHERNET/IP BRIDGE	0	EE-DD-002	SCHEMATIC - FLCP PLC RACK 0, SLOT 2 - ETHERNET/IP BRIDGE	0	EE-DD-003 SH1	SCHEMATIC - FLCP PLC RACK 0, SLOT 3 - ANALOG INPUT MODULE	0	EE-DD-003 SH2	SCHEMATIC - FLCP PLC RACK 0, SLOT 3 - ANALOG INPUT MODULE (CONT)	0	EE-DD-004 SH1	SCHEMATIC - FLCP PLC RACK 0, SLOT 4 - ANALOG INPUT MODULE	0	EE-DD-004 SH2	SCHEMATIC - FLCP PLC RACK 0, SLOT 4 - ANALOG INPUT MODULE (CONT)	0	EE-DD-005	SCHEMATIC - FLCP PLC RACK 0, SLOT 5 - ANALOG OUTPUT MODULE	0	EE-DD-006	SCHEMATIC - FLCP PLC RACK 0, SLOT 6 - ANALOG OUTPUT MODULE	0	EE-DD-007	SCHEMATIC - FLCP PLC RACK 0, SLOT 7 - DIGITAL INPUT MODULE	0	EE-DD-008	SCHEMATIC - FLCP PLC RACK 0, SLOT 8 - DIGITAL INPUT MODULE	0	EE-DD-009	SCHEMATIC - FLCP PLC RACK 0, SLOT 9 - HIGH-SPEED COUNTER MODULE	0	EE-DD-010	SCHEMATIC - FLCP PLC RACK 1, SLOT 0 - POWER SUPPLY & ETHERNET/IP BRIDGE	0	EE-DD-011	SCHEMATIC - FLCP PLC RACK 1, SLOT 1 - RELAY OUTPUT MODULE	0	EE-DD-012	SCHEMATIC - FLCP PLC RACK 1, SLOT 2 - RELAY OUTPUT MODULE	0	EE-DD-013	SCHEMATIC - FLCP PLC RACK 1, SLOT 3 - RELAY OUTPUT MODULE	0	EE-DD-014	SCHEMATIC - FLCP PLC RACK 1, SLOT 4 - RELAY OUTPUT MODULE	0	EE-DD-015	SCHEMATIC - FLCP PLC RACK 1, SLOT 5 - SLOT FILLER MODULE (SPARE SLOT)	0	EE-DD-016	SCHEMATIC - FLCP PLC RACK 1, SLOT 6 - DIGITAL INPUT MODULE	0	EE-DD-017	SCHEMATIC - FLCP PLC RACK 1, SLOT 7 - DIGITAL INPUT MODULE	0	EE-DD-018	SCHEMATIC - FLCP PLC RACK 1, SLOT 8 - DIGITAL INPUT MODULE	0	EE-DD-019	SCHEMATIC - FLCP PLC RACK 1, SLOT 9 - DIGITAL INPUT MODULE				0	EE-DK-001	ELEMENTARY WIRING DIAGRAM - FISH LIFT ENTRANCE ISOLATION GATE (IG1)	0	EE-DK-002	ELEMENTARY WIRING DIAGRAM - FISH LIFT ENTRANCE GATE (EG2)	0	EE-DK-003 SH1	ELEMENTARY WIRING DIAGRAM - V-GATE A (VG3A)	0	EE-DK-003 SH2	ELEMENTARY WIRING DIAGRAM - V-GATE B (VG3B)	0	EE-DK-004 SH1	ELEMENTARY WIRING DIAGRAM - HOPPER HOIST (HH4)	0	EE-DK-004 SH2	ELEMENTARY WIRING DIAGRAM - HOPPER HOIST (HH4)				0	EE-DK-006	ELEMENTARY WIRING DIAGRAM - EXIT FLUME ISOLATION GATE (IG6)	0	EE-DK-007	ELEMENTARY WIRING DIAGRAM - AWS US ISOLATION VALVE (AWS57)	0	EE-DK-008	ELEMENTARY WIRING DIAGRAM - DS PASSAGE AWS ISOLATION VALVE (AWS58)	0	EE-DK-009	ELEMENTARY WIRING DIAGRAM - AWS DS ISOLATION VALVE (AWS59)	0	EE-DK-010	ELEMENTARY WIRING DIAGRAM - EXIT FLUME DS BYPASS ISOLATION GATE (IG10)	0	EE-DK-011	ELEMENTARY WIRING DIAGRAM - P&W ENTRANCE OVERSHOT WEIR GATE (OWG11)	0	EE-DK-012	ELEMENTARY WIRING DIAGRAM - P&W ENTRANCE ISOLATION GATE (IG12)	0	EE-DK-013	ELEMENTARY WIRING DIAGRAM - P&W EXIT OVERSHOT WEIR GATE (OWG13)	0	EE-DK-014	ELEMENTARY WIRING DIAGRAM - DS BYPASS KNIFE GATE VALVE (DSG14)	0	EE-DK-015	ELEMENTARY WIRING DIAGRAM - DS BYPASS KNIFE GATE VALVE (DSG15)	0	EE-DK-016	ELEMENTARY WIRING DIAGRAM - DS BYPASS ISOLATION GATE (DSG16)	0	EE-DK-017	ELEMENTARY WIRING DIAGRAM - P&W EXIT ISOLATION GATE (IG17)	0	EE-DK-018	ELEMENTARY WIRING DIAGRAM - TRAP GATE (TG18)	0	EE-DK-019	ELEMENTARY WIRING DIAGRAM - TRAP GATE (TG19)	
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E	DRAWING DISCIPLINE: AR = ARCHITECTURAL CV = CIVIL EE = ELECTRICAL EV = ENVIRONMENTAL ME = MECHANICAL ST = STRUCTURAL DRAWING CATEGORY: A = GENERAL DRAWINGS B = OVERVIEW DRAWINGS C = LAYOUT DRAWINGS D = SCHEMATIC DRAWINGS E = WIRING DIAGRAMS F = FABRICATION DRAWINGS G = INTERCONNECTION DIAGRAMS H = CONTROLS/INSTRUMENTATION J = FUTURE K = FUTURE DISCIPLINE SEQUENCE DRAWING NUMBER USED IF SHEETS NEED TO BE INSERTED DRAWING CATEGORY DRAWING SUB CATEGORY DRAWING NUMBER LEGEND	<table><tr><th colspan="6">REVISION</th></tr><tr><th>REV</th><th>DATE</th><th>DR</th><th>CK</th><th>AP</th><th>DESCRIPTION</th></tr><tr><td>0</td><td>03/28/2025</td><td>SAM</td><td>CMM</td><td>CMH</td><td>ISSUED FOR CONSTRUCTION</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> ECI Electrical Consultants, Inc. THIS DRAWING IS THE PROPERTY OF ELECTRICAL CONSULTANTS, INC. AND IS TO BE USED ONLY FOR THE SPECIFIC PROJECT IDENTIFIED ON THE DRAWING. NO REVISIONS SHALL BE MADE WITHOUT THE EXPRESSED WRITTEN CONSENT OF ELECTRICAL CONSULTANTS, INC. DRAWN BY DATE CHECKED BY DATE APPROVED BY DATE SCALE WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE DRAWING LIST - SHEET 2 FISH LIFT PASSAGE TECHNOLOGY DRAWING CATEGORY PROJECT NO. DWG REV NONE ARL-007 EE-AB-002 0	REVISION						REV	DATE	DR	CK	AP	DESCRIPTION	0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION																																																																																																																																																						
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GENERAL SYMBOLS:

- 1

KEYED NOTE
- LCU1

EQUIPMENT ID OR LOCATION TAG
- 21

BOM IDENTIFIER
- D

EQUIPMENT LOCATED IN DOOR

ONE-LINE DIAGRAM SYMBOLS:

- CIRCUIT BREAKER
- MOTOR OVERLOAD
- CONTACTOR
- CURRENT TRANSFORMER (CT)
- POTENTIAL TRANSFORMER (PT)
- FUSE
- MOTOR LOAD
- NON-MOTOR LOAD

THREE-LINE DIAGRAM SYMBOLS:

- 2-POLE CIRCUIT BREAKER
- 3-POLE CIRCUIT BREAKER
- 3-POLE CIRCUIT BREAKER WITH STATUS CONTACT
- 3-POLE MOTOR OVERLOAD
- 3-POLE CONTACTOR
- TRANSFORMER
- 3-POLE MAIN FUSE DISCONNECT BLOCK
- 3-POLE DISCONNECT SWITCH

WIRING DIAGRAM SYMBOLS:

- DOUBLE DECK TB'S

7-A

7-B

8-A

8-B

HORIZONTAL JUMPER -
CONNECT ADJACENT TERMINALS

VERTICAL JUMPER -
CONNECT DOUBLE STACKED TERMINALS

WIRE JUMPER -
CONNECT TERMINALS USING
A PHYSICAL PIECE OF WIRE

WHIP JUMPER -
CONNECT TERMINALS USING
A WHIP STYLE JUMPER IN JUMPER PORTS

TERMINAL A - TOP
TERMINAL B - BOTTOM

TRIPLE DECK TB'S

7-A

7-B

7-C

8-A

8-B

8-C

HORIZONTAL JUMPER -
CONNECT ADJACENT TERMINALS

VERTICAL JUMPER -
CONNECT TRIPLE STACKED TERMINALS

WIRE JUMPER -
CONNECT TERMINALS USING
A PHYSICAL PIECE OF WIRE

WHIP JUMPER -
CONNECT TERMINALS USING
A WHIP STYLE JUMPER IN JUMPER PORTS

TERMINAL A - TOP
TERMINAL B - MIDDLE
TERMINAL C - BOTTOM

COMMON NODE TB'S

A

C

A

C

27

28

B

D

B

D

HORIZONTAL JUMPER -
CONNECT ADJACENT TERMINALS

TERMINAL A - LEFT TOP
TERMINAL B - RIGHT TOP
TERMINAL C - LEFT BOTTOM
TERMINAL D - RIGHT BOTTOM

SCHEMATIC DIAGRAM SYMBOLS:

RESISTOR

CAPACITOR

BATTERY

DIODE

DIODE BRIDGE

FUSE

FUSE LINK

HEATER ELEMENT

QUICK DISCONNECT DEVICE

NORMALLY CLOSED (NC) CONTACT

NORMALLY OPEN (NO) CONTACT

RELAY COIL

FLOW SWITCH (FS)

LEVEL SWITCH (LS)

PRESSURE SWITCH (PS)

TEMPERATURE SWITCH (TS)

VIBRATION SWITCH (VS)

TERMINAL BLOCK SYMBOLS:

FLCP - FISH LIFT CONTROL PANEL

PLC - PLC MODULE

GATE ACTUATOR OR CONTROLLER (FIELD)

GATE ACTUATOR OR CONTROLLER (INTERNAL)

VALVE ACTUATOR OR CONTROLLER

MOTOR STARTER (LOCATED IN MCC)

VF DRIVE (LOCATED IN MCC)

UPPER/LOWER HOIST CONTROL STATION

SKID OR MISC. CONTROL STATION

DEVICE TERMINAL

GROUND TERMINAL

WIRING & CABLE LEGEND:

FIBER OPTIC CABLE

CAT6 CABLE

LOCAL WIRING

FIELD WIRING

PLUG IN JUMPER

GENERAL ABBREVIATIONS:

AC

ALTERNATING CURRENT

BOF

BOTTOM OF FIXTURE

BOT

BOTTOM OF (CABLE) TRAY

CB

CIRCUIT BREAKER

CC

CONFORMALLY COATED

CPU

CENTRAL PROCESSING UNIT

CT

CURRENT TRANSFORMER

DC

DIRECT CURRENT

DCS

DIGITAL CONTROL SYSTEM

EST

ESTIMATE / ESTIMATED

HMI

HUMAN MACHINE INTERFACE

NF

NON-FUSED (DISCONNECT)

OIT

OPERATOR INTERFACE TERMINAL

PLC

PROGRAMMABLE LOGIC CONTROLLER

PS

POWER SUPPLY

PT

POTENTIAL TRANSFORMER

STD

STANDARD

SH

SHIELD

SP

SPARE

TC

TRAY CABLE

T/C

THERMOCOUPLE

PR

PAIR (2 CONDUCTOR)

TR

TRIAD (3 CONDUCTOR)

QD

QUAD (4 CONDUCTOR)

3C

THREE CONDUCTOR CABLE

3-1C

THREE - ONE CONDUCTOR CABLES

EMT

ELECTRICAL METALLIC TUBING

RGS

RIGID GALVANIZED STEEL

FR

FIELD RUN

FWE

FURNISHED WITH EQUIPMENT

VSC

VENDOR SUPPLIED CABLE

L OR L1

LINE (HOT)

N

NEUTRAL

GND

GROUND

XFMR

TRANSFORMER

PROJECT ABBREVIATIONS:

AWS

ATTRACTION WATER SUPPLY

US

UPSTREAM

DS

DOWNSTREAM

P&W

POOL AND WEIR (FISH LADDER)

TOB

TOP OF BEAM

TOC

TOP OF CONCRETE

TOG

TOP OF GRATE

TOS

TOP OF STEEL

TOW

TOP OF WALL

WIRE COLOR CODES:

(ONE LETTER CODE, IF USED)

B

BLACK

W

WHITE

R

RED

G

GREEN

U

BLUE

P

PINK

O

ORANGE

Y

YELLOW

N

BROWN

R/B

RED WITH BLACK TRACER

U/B

BLUE WITH BLACK TRACER

O/B

ORANGE WITH BLACK TRACER

Y/B

YELLOW WITH BLACK TRACER

N/B

BROWN WITH BLACK TRACER

WIRE COLOR CODES:

(TWO LETTER CODE, IF USED)

BK

BLACK

WH

WHITE

RD

RED

GN

GREEN

BU

BLUE

GY

GRAY

OR

ORANGE

PK

PINK

YL

YELLOW

PU

PURPLE

BN

BROWN

STANDARD SYMBOLS AND ABBREVIATIONS:

FOR STANDARD WIRING DIAGRAM AND SCHEMATIC DRAWING ELECTRICAL SYMBOLS THAT ARE USED BUT NOT SHOWN ON THIS LEGEND, REFER TO ANSI/IEEE STD 315-1975 - STANDARD FOR GRAPHIC SYMBOLS FOR ELECTRICAL AND ELECTRONICS DIAGRAMS.

FOR PROTECTIVE DEVICE NUMBERING, REFER TO ANSI/IEEE C37.2- ELECTRICAL POWER SYSTEMS DEVICE FUNCTION NUMBERS, ACRONYMS AND CONTACT DESIGNATIONS.

CABLE IDENTIFICATION:

Diagram illustrating Cable Identification with labels:

 - CABLE DESCRIPTION
 - NUMBER OF PAIRS IN CABLE (LEAVE BLANK IF NONE)
 - SHIELD
 - INDIVIDUAL WIRE COLOR SEE WIRE COLOR CODES
 - NO. OF SPARE CONDUCTORS
 - CABLE DESIGNATION. SEE CABLE SCHEDULE. (SOURCE-DESTINATION-VOLTAGE CLASS)

Example Cable Label: 1PR #16 SH TC PR2 1 B W 2 250

WIRE LABELS:

- SHALL BE HEAT SHRINK TYPE.
 - SHALL BE THE SAME ON EACH END OF A SINGLE CONDUCTOR OR CABLE
 - SHALL CONSIST OF TWO LINES:

LINE 1:

SHALL BE THE SOURCE EQUIPMENT NUMBER AND TERMINAL POINT FOLLOWED BY A SPACE AND A FORWARD SLASH CHARACTER.

LINE 2:

SHALL BE THE DESTINATION EQUIPMENT NUMBER AND TERMINAL POINT OR THE DESTINATION DEVICE TAG AND TERMINAL POINT, AS APPROPRIATE.

EXAMPLE:
FLCP LC-1 /
IG1 TB-5

STANDARD SYMBOLS AND ABBREVIATIONS:

FOR STANDARD WIRING DIAGRAM AND SCHEMATIC DRAWING ELECTRICAL SYMBOLS THAT ARE USED BUT NOT SHOWN ON THIS LEGEND, REFER TO ANSI/IEEE STD 315-1975 - STANDARD FOR GRAPHIC SYMBOLS FOR ELECTRICAL AND ELECTRONICS DIAGRAMS.

FOR PROTECTIVE DEVICE NUMBERING, REFER TO ANSI/IEEE C37.2- ELECTRICAL POWER SYSTEMS DEVICE FUNCTION NUMBERS, ACRONYMS AND CONTACT DESIGNATIONS.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

ECI

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	SYMBOL LEGEND AND NOTES FISH LIFT PASSAGE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	GENERAL	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-AD-001	0	

RACEWAY AND CABLE SCHEDULE - POWER CABLES														
LINE	REV	CABLE No. SOURCE-DESTINATION-TYPE	CABLE TYPE	SOURCE			VIA RACEWAY	DESTINATION			VOLTAGE	LENGTH	COMMENTS	
				DRAWING	EQUIP. No.	DESCRIPTION		DRAWING	EQUIP. No.	DESCRIPTION				
FISH LIFT POWER PANEL (FLPP)														
1	A	FLPP - CKT1 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-008	CKT1	LIGHTING - FISH LIFT CONTROL BUILDING	120VAC		INTERIOR LIGHTING	
2	A	FLPP - CKT3 - P	2C #10 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-008	CKT3	LIGHTING - FISH LIFT AREA - GRADE LEVEL	120VAC		EXTERIOR LIGHTING	
3	A	FLPP - CKT5 - P	2C #10 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-010	CKT5	LIGHTING - FISH LIFT TOWER	120VAC		EXTERIOR LIGHTING	
4	A	FLPP - CKT7 - P	2C #10 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-003	CKT7	LIGHTING - EXIT FLUME	120VAC		EXTERIOR LIGHTING	
5	A	FLPP - CKT9 - P	2C #10 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-004	CKT9	LIGHTING - FISH LADDER	120VAC		EXTERIOR LIGHTING	
6	A	FLPP - CKT11 - P	2C #10 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-003	CKT11	LIGHTING - DOWNSTREAM FISH BYPASS	120VAC		EXTERIOR LIGHTING	
7	A	FLPP - CKT13 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-007	CKT13	LIGHTING - FISH LADDER VIEWING BUILDING	120VAC		INTERIOR LIGHTING	
8	A	FLPP - CKT15 - P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT15				SPARE	
9	A	FLPP - CKT17 - P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT17				SPARE	
10	A	FLPP - CKT19 - P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT19				SPARE	
11	A	FLPP - CKT21 - P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT21				SPARE	
12	A	FLPP - ABSCP - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, 2" RGS		ABSCP	AIR BURST SYSTEM CONTROL PANEL	120VAC			
13	A	FLPP - CKT25 - P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT25				SPARE	
14	A	FLPP - FLCF - P	2C #10 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, 3" RGS	EE-DC-002	FLCP	FISH LIFT CONTROL PANEL	120VAC			
15	A	FLPP-CKT29,31- P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT29,31				SPARE	
16	A	FLPP-CKT33,35- P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT33,35				SPARE	
17	A	FLPP - CKT37 - P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT37				SPACE	
18	A	FLPP - CKT39 - P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT39				SPACE	
19	A	FLPP - CKT41 - P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT41				SPACE	
20	A													
21	A													
22	A	FLPP - CKT2 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-008	CKT2	RECEPTACLES - FISH LIFT CONTROL BUILDING	120VAC		INTERIOR RECEPTACLES	
23	A	FLPP - CKT4 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-008	CKT4	RECEPTACLES - FISH LIFT CONTROL BUILDING	120VAC		INTERIOR RECEPTACLES	
24	A	FLPP - CKT6 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-008	CKT6	RECEPTACLES - FISH LIFT CONTROL BUILDING	120VAC		EXTERIOR RECEPTACLES	
25	A	FLPP - CKT8 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-010	CKT8	RECEPTACLES - FISH LIFT TOWER COLUMN A2	120VAC		EXTERIOR RECEPTACLES	
26	A	FLPP - CKT10 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-010	CKT10	RECEPTACLES - FISH LIFT TOWER COLUMN B3	120VAC		EXTERIOR RECEPTACLES	
27	A	FLPP - CKT12 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-010	CKT12	RECEPTACLES - FISH LIFT TOWER COLUMN C1	120VAC		EXTERIOR RECEPTACLES	
28	A	FLPP - CKT14 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-010	CKT14	RECEPTACLES - FISH LIFT TOWER COLUMN E2	120VAC		EXTERIOR RECEPTACLES	
29	A	FLPP - CKT16 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-004	CKT16	RECEPTACLES - EXIT FLUME AREA	120VAC		EXTERIOR RECEPTACLES	
30	A	FLPP - CKT18 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-003	CKT18	RECEPTACLES - DS BYPASS AREA	120VAC		EXTERIOR RECEPTACLES	
31	A	FLPP - CKT20 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-007	CKT20	RECEPTACLES - FISH LADDER VIEWING BLDG	120VAC		INTERIOR RECEPTACLES	
32	A	FLPP - CKT22 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-004	CKT22	RECEPTACLES - FISH LADDER (WEST)	120VAC		EXTERIOR RECEPTACLES	
33	A	FLPP - CKT24 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-005	CKT24	RECEPTACLES - FISH LADDER (EAST)	120VAC		EXTERIOR RECEPTACLES	
34	A	FLPP - CKT26 - P	2C #12 W/GND	EE-BA-002	FLPP	FISH LIFT POWER PANEL	3" RGS, TRAY, RGS FR	EE-CB-010	CKT26	RECEPTACLES - FISH LIFT ENTR. GATE AREA	120VAC		EXTERIOR RECEPTACLES	
35	A	FLPP - CKT28 - P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT28				SPARE	
36	A	FLPP-CKT30,32- P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT30,32				SPARE	
37	A	FLPP-CKT34,36- P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT34,36				SPARE	
38	A	FLPP - CKT38 - P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT38				SPACE	
39	A	FLPP - CKT40 - P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT40				SPACE	
40	A	FLPP - CKT42 - P		EE-BA-002	FLPP	FISH LIFT POWER PANEL			CKT42				SPACE	
41	A													
42	A													
43	A													
44	A													
45	A													
46	A													
47	A													
48	A													
49	A													
50	A													

GENERAL NOTES:

1.

ALL 600V POWER CABLES SHALL BE TYPE MC, ALUMINUM INTERLOCKED ARMOR, BLACK IN COLOR, AND HAVE WIRE INSULATION OF XHHW/XLP, UNLESS NOTED OTHERWISE.

KEYED NOTES:

1

ALL HOME RUN CABLES FOR EXTERIOR LIGHTING CIRCUITS (THE CABLE BETWEEN THE POWER PANEL AND THE SWITCH) SHALL BE #10 AWG. ALL CABLES BEYOND THE SWITCH SHALL BE #12 AWG, UNLESS NOTED OTHERWISE.

POWER CABLE IDENTIFICATION:

-Z

115KV CLASS

-Y

35KV CLASS

-K

15KV CLASS

-H

5KV CLASS

-P

600V CLASS

-G

GROUNDING SYSTEM

REVISION

REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

ECI

Engineering with Distinction

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE	
CHECKED BY	DATE	CABLE SCHEDULE 208/120VAC POWER CABLES	
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY
CMH	08/22/2024	HYDRO	GENERAL
SCALE	PROJECT NO.	DWG	REV
NONE	ARL-007	EE-AE-002	0

	1	2	3	4	5	6	7	8						
A	RACEWAY AND CABLE SCHEDULE - DIGITAL CONTROL CABLES													
	LINE	REV	CABLE No. SOURCE-DESTINATION-TYPE	CABLE TYPE	SOURCE			VIA RACEWAY	DESTINATION			VOLTAGE	LENGTH	COMMENTS
					DRAWING	EQUIP. No.	DESCRIPTION		DRAWING	EQUIP. No.	DESCRIPTION			
	FISH LIFT CONTROL PANEL (FLCP)													
	1	A	FLCP - IG1 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-001	IG1	FISH LIFT ENTRANCE ISOLATION GATE	24VDC		TO RC/LS
	2	A	FLCP - IG1 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-001	IG1	FISH LIFT ENTRANCE ISOLATION GATE	24VDC		TO RH
	3	A	FLCP - EG2 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-002	EG2	FISH LIFT ENTRANCE GATE	24VDC		TO RF/LS
	4	A	FLCP - EG2 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-002	EG2	FISH LIFT ENTRANCE GATE	24VDC		TO RH
	5	A	FLCP - VG3A - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-003 SH1	VG3A	V-GATE A	24VDC		TO RF/LS
	6	A	FLCP - VG3A - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-003 SH1	VG3A	V-GATE A	24VDC		TO RH
	7	A	FLCP - VG3B - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-003 SH2	VG3B	V-GATE B	24VDC		TO RF/LS
	8	A	FLCP - VG3B - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-003 SH2	VG3B	V-GATE B	24VDC		TO RH
	9	A	FLCP - VG3JB - C	5C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-DD-016	VG3JB	V-GATE LIMIT SWITCH JUNCTION BOX	24VDC		TO RH JUNCTION BOX BY CONTRACTOR
	10	A	FLCP - ES4 - C	5C #14	EE-ED-007	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR		ES4	E-STOP No.4	24VDC		TO LJ/LS
	11	A	FLCP - HH4CP - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-004	HH4CP	HOPPER HOIST CONTROL PANEL	24VDC		TO RE/LS
	12	A	FLCP - HH4CP - C2	7C #14	EE-ED-007	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-004	HH4CP	HOPPER HOIST CONTROL PANEL	24VDC		TO LK
	13	A	FLCP - HH4CP - C3	7C #14	EE-ED-007	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-004	HH4CP	HOPPER HOIST CONTROL PANEL	24VDC		TO LK
	14	A	FLCP - HH4DS - C	5C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-004	HH4DS	HOPPER HOIST DISCONNECT SWITCH	24VDC		TO RL
	15	A	FLCP - LHCS - C	12C #14	EE-ED-007	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-CE-003	LHCS	LOWER HOIST CONTROL STATION	24VDC		TO LJ
	16	A	FLCP - UHCS - C	12C #14	EE-ED-007	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-CE-003	UHCS	UPPER HOIST CONTROL STATION	24VDC		TO LJ
	17	A	FLCP - HG5ZS - C	5C #14	EE-ED-007	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-DD-008	HG5ZS	HOPPER GATE LIMIT SWITCH	24VDC		TO LK
	18	A	FLCP - IG6 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-006	IG6	EXIT FLUME ISOLATION GATE	24VDC		TO RC/LS
	19	A	FLCP - IG6 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-006	IG6	EXIT FLUME ISOLATION GATE	24VDC		TO RJ
	20	A	FLCP - AWS57 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-007	AWSS7	AWS US ISOLATION VALVE	24VDC		TO RF/LS
	21	A	FLCP - AWS57 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-007	AWSS7	AWS US ISOLATION VALVE	24VDC		TO RJ
	22	A	FLCP - AWS58 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-008	AWSS8	DS PASSAGE AWS ISOLATION VALVE	24VDC		TO RF/LS
	23	A	FLCP - AWS58 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-008	AWSS8	DS PASSAGE AWS ISOLATION VALVE	24VDC		TO RJ
	24	A	FLCP - AWS59 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-009	AWSS9	AWS DS ISOLATION VALVE	24VDC		TO RF/LS
	25	A	FLCP - AWS59 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-009	AWSS9	AWS DS ISOLATION VALVE	24VDC		TO RJ
	26	A	FLCP - IG10 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-010	IG10	EXIT FLUME DS BYPASS ISOLATION GATE	24VDC		TO RC/LS
	27	A	FLCP - IG10 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-010	IG10	EXIT FLUME DS BYPASS ISOLATION GATE	24VDC		TO RK
	28	A	FLCP - OWG11 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-011	OWG11	P&W ENTRANCE OVERSHOT WEIR GATE	24VDC		TO RF/LS
	29	A	FLCP - OWG11 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-011	OWG11	P&W ENTRANCE OVERSHOT WEIR GATE	24VDC		TO RK
	30	A	FLCP - IG12 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-012	IG12	P&W ENTRANCE ISOLATION GATE	24VDC		TO RC/LS
	31	A	FLCP - IG12 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-012	IG12	P&W ENTRANCE ISOLATION GATE	24VDC		TO RK
	32	A	FLCP - OWG13 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-013	OWG13	P&W EXIT OVERSHOT WEIR GATE	24VDC		TO RF/LS
	33	A	FLCP - OWG13 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-013	OWG13	P&W EXIT OVERSHOT WEIR GATE	24VDC		TO RK
	34	A	FLCP - DSG14 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-014	DSG14	DS BYPASS KNIFE GATE VALVE	24VDC		TO RD/LS
	35	A	FLCP - DSG14 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-014	DSG14	DS BYPASS KNIFE GATE VALVE	24VDC		TO RK
	36	A	FLCP - DSG15 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-015	DSG15	DS BYPASS KNIFE GATE VALVE	24VDC		TO RD/LS
	37	A	FLCP - DSG15 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-015	DSG15	DS BYPASS KNIFE GATE VALVE	24VDC		TO RL
	38	A	FLCP - IG16 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-016	IG16	DS BYPASS ISOLATION GATE	24VDC		TO RD/LS
	39	A	FLCP - IG16 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-016	IG16	DS BYPASS ISOLATION GATE	24VDC		TO RL
	40	A	FLCP - IG17 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-017	IG17	P&W EXIT ISOLATION GATE	24VDC		TO RD/LS
	41	A	FLCP - IG17 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-017	IG17	P&W EXIT ISOLATION GATE	24VDC		TO RL
	42	A	FLCP - TG18 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-018	TG18	TRAP GATE	24VDC		TO RF/LS
	43	A	FLCP - TG18 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-018	TG18	TRAP GATE	24VDC		TO RL
	44	A	FLCP - TG19 - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-019	TG19	TRAP GATE	24VDC		TO RF/LS
	45	A	FLCP - TG19 - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-019	TG19	TRAP GATE	24VDC		TO RL
	46	A												
	47	A												
	48	A												
	49	A	FLCP - ABSCP - C1	7C #14	EE-ED-009	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-DD-014	ABSCP	AIR BURST SYSTEM CONTROL PANEL	24VDC		TO RF
	50	A	FLCP - ABSCP - C2	7C #14	EE-ED-010	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-DD-017	ABSCP	AIR BURST SYSTEM CONTROL PANEL	24VDC		TO RJ
E	CONTROL CABLE IDENTIFICATION: -C DIGITAL CONTROL (24VDC, 125VDC & 120VAC) -X ANALOG CONTROL (<50V, 4-20mA, RTD, ETC.) -F FIBER OPTIC -Z COMMUNICATION (ETHERNET, PROFIBUS, ETC.) -CT CURRENT TRANSFORMER -PT POTENTIAL TRANSFORMER													
	REVISION													
	REV	DATE	DR	CK	AP	DESCRIPTION								
	0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION								

RACEWAY AND CABLE SCHEDULE - ANALOG CONTROL AND COMMUNICATION CABLES																
LINE	REV	CABLE No. SOURCE-DESTINATION-TYPE	CABLE TYPE	SOURCE			VIA RACEWAY	DESTINATION			VOLTAGE	LENGTH	COMMENTS			
				DRAWING	EQUIP. No.	DESCRIPTION		DRAWING	EQUIP. No.	DESCRIPTION						
FISH LIFT CONTROL PANEL (FLCP)																
1	A	FLCP - IG1 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-001	IG1	FISH LIFT ENTRANCE ISOLATION GATE	24VDC		TO LE			
2	A	FLCP - EG2 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-002	EG2	FISH LIFT ENTRANCE GATE	24VDC		TO LE/LG			
3	A	FLCP - VG3A - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-003 SH1	VG3A	V-GATE A	24VDC		TO LE/LG			
4	A	FLCP - VG3B - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-003 SH2	VG3B	V-GATE B	24VDC		TO LE/LG			
5	A	FLCP - HH4CP - X	1TR #18 SHLD	EE-ED-007	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-004	HH4CP	HOPPER HOIST CONTROL PANEL	24VDC		TO LL			
6	A	HH4CP - ENC4 - X	6C #20 SHLD	EE-GK-004	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-004	ENC4	HOPPER HOIST HIGH SPEED ENCODER	24VDC					
7	A	FLCP - IG6 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-006	IG6	EXIT FLUME ISOLATION GATE	24VDC		TO LE			
8	A	FLCP - AWSS7 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-007	AWSS7	AWS US ISOLATION VALVE	24VDC		TO LE/LG			
9	A	FLCP - AWSS8 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-008	AWSS8	DS PASSAGE AWS ISOLATION VALVE	24VDC		TO LE/LG			
10	A	FLCP - AWSS9 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-009	AWSS9	AWS DS ISOLATION VALVE	24VDC		TO LE/LG			
11	A	FLCP - IG10 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-010	IG10	EXIT FLUME DS BYPASS ISOLATION GATE	24VDC		TO LE			
12	A	FLCP - OWG11 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-011	OWG11	P&W ENTRANCE OVERSHOT WEIR GATE	24VDC		TO LE/LG			
13	A	FLCP - IG12 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-012	IG12	P&W ENTRANCE ISOLATION GATE	24VDC		TO LE			
14	A	FLCP - OWG13 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-013	OWG13	P&W EXIT OVERSHOT WEIR GATE	24VDC		TO LE/LG			
15	A	FLCP - DSG14 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-014	DSG14	DS BYPASS KNIFE GATE VALVE	24VDC		TO LE			
16	A	FLCP - DSG15 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-015	DSG15	DS BYPASS KNIFE GATE VALVE	24VDC		TO LE			
17	A	FLCP - IG16 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-016	IG16	DS BYPASS ISOLATION GATE	24VDC		TO LF			
18	A	FLCP - IG17 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-017	IG17	P&W EXIT ISOLATION GATE	24VDC		TO LF			
19	A	FLCP - TG18 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-018	TG18	TRAP GATE	24VDC		TO LF/LH			
20	A	FLCP - TG19 - X	2PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-GK-019	TG19	TRAP GATE	24VDC		TO LF/LH			
21	A															
22	A															
23	A															
24	A															
25	A															
26	A															
27	A															
28	A															
29	A															
30	A															
31	A	FLCP - WLS1 - X	1PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-DD-004 SH2	WLS1	LIFT TAILRACE WATER LEVEL SENSOR	24VDC		TO LF			
32	A	FLCP - WLS2 - X	1PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-DD-004 SH2	WLS2	LIFT ENTRANCE CHANNEL WATER LEVEL SENSOR	24VDC		TO LF			
33	A	FLCP - WLS3 - X	1PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-DD-004 SH2	WLS3	LIFT US WEIR WATER LEVEL SENSOR	24VDC		TO LF			
34	A	FLCP - WLS4 - X	1PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-DD-004 SH2	WLS4	P&W TAIL WATER ENTRANCE WATER LS	24VDC		TO LF			
35	A	FLCP - WLS5 - X	1PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-DD-004 SH2	WLS5	P&W INSIDE ENTRANCE WATER LEVEL SENSOR	24VDC		TO LF			
36	A	FLCP - WLS6 - X	1PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-DD-004 SH2	WLS6	P&W INSIDE EXIT WATER LEVEL SENSOR	24VDC		TO LF			
37	A	FLCP - WLS7 - X	1PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-DD-004 SH2	WLS7	INSIDE EXIT FLUME ENTRANCE WATER LS	24VDC		TO LF			
38	A	FLCP - WLS8 - X	1PR #18 SHLD	EE-ED-006	FLCP	FISH LIFT CONTROL PANEL	4" RGS, TRAY, RGS FR	EE-DD-004 SH2	WLS8	INSIDE EXIT FLUME WATER LEVEL SENSOR	24VDC		TO LF			
39	A															
40	A															
41	A	FLCP - HH4CP - Z	CAT6	EE-BB-001	FLCP	FISH LIFT CONTROL PANEL	1" RGS	EE-GK-004	HH4CP	HOPPER HOIST CONTROL PANEL	NA					
42	A	FLCP - WMILL - Z	CAT6	EE-BB-001	FLCP	FISH LIFT CONTROL PANEL	1" RGS	EE-BB-001	TBD	REMOTE ACCESS (DETERMINED BY MILL)	NA					
43	A	FLCP - FLFPP - Z	MULTIMODE FIBER OPTIC	EE-BB-001	FLCP	FISH LIFT CONTROL PANEL	1" RGS	EE-BB-001	FLCP	FISH LIFT FIBER PATCH PANEL	NA					
44	A	FLFPP - WMILL - Z	MULTIMODE FIBER OPTIC	EE-BB-001	FLFPP	FISH LIFT FIBER PATCH PANEL	1" RGS	EE-BB-001	TBD	EXISTING NETWORK SWITCH (LOCATION TBD)	NA					
45	A															
46	A									HOLD						
47	A															
48	A															
49	A															
50	A															

CONTROL CABLE IDENTIFICATION:
-C DIGITAL CONTROL (24VDC, 125VDC & 120VAC)
-X ANALOG CONTROL (<50V, 4-20mA, RTD, ETC.)
-F FIBER OPTIC
-Z COMMUNICATION (ETHERNET, PROFIBUS, ETC.)
-CT CURRENT TRANSFORMER
-PT POTENTIAL TRANSFORMER

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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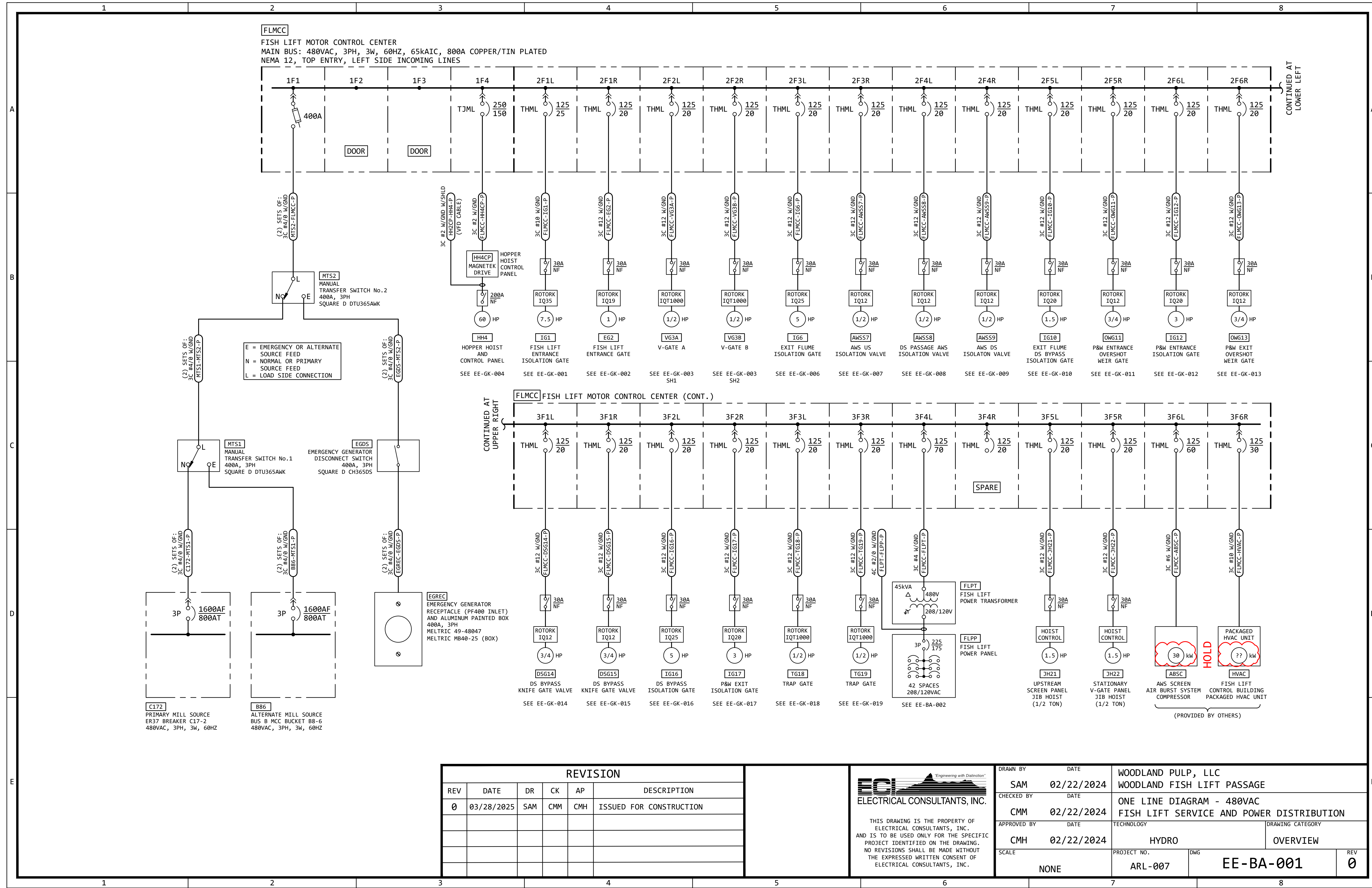
Engineering with Distinction

ELECTRICAL CONSULTANTS, INC.

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE	
CHECKED BY	DATE	CABLE SCHEDULE ANALOG CONTROL AND COMMUNICATION CABLES	
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY
CMH	08/22/2024	HYDRO	GENERAL
SCALE	PROJECT NO.	DWG	REV
NONE	ARL-007	EE-AE-004	0

1		2		3		4		5		6		7		8	
RACEWAY AND CABLE SCHEDULE - MISCELLANEOUS CABLES															
LINE	REV	CABLE No. SOURCE-DESTINATION-TYPE	CABLE TYPE	SOURCE			VIA RACEWAY	DESTINATION			VOLTAGE	LENGTH	COMMENTS		
				DRAWING	EQUIP. No.	DESCRIPTION		DRAWING	EQUIP. No.	DESCRIPTION					
TEMPERATURE CONTROL CABLES															
1	A	IG1 - TS1 - C	2C #14	EE-GK-001	IG1	GATE ACTUATOR - IG1	RGS FR	EE-GK-001	TSIG1	TEMPERATURE SWITCH - IG1	TBD		HOLD VSC?		
2	A	EG2 - TS2 - C	2C #14	EE-GK-002	EG2	GATE ACTUATOR - EG2	RGS FR	EE-GK-002	TSEG2	TEMPERATURE SWITCH - EG2	TBD		VSC?		
3	A	VG3A - TS3A - C	2C #14	EE-GK-003 SH1	VG3A	GATE ACTUATOR - VG3A	RGS FR	EE-GK-003 SH1	TSVG3A	TEMPERATURE SWITCH - VG3A	TBD		VSC?		
4	A	VG3B - TS3B - C	2C #14	EE-GK-003 SH2	VG3B	GATE ACTUATOR - VG3B	RGS FR	EE-GK-003 SH2	TSVG3B	TEMPERATURE SWITCH - VG3B	TBD		VSC?		
5	A														
6	A	IG6 - TS6 - C	2C #14	EE-GK-006	IG6	GATE ACTUATOR - IG6	RGS FR	EE-GK-006	TSIG6	TEMPERATURE SWITCH - IG6	TBD		VSC?		
7	A	AWSS7 - TS7 - C	2C #14	EE-GK-007	AWSS7	VALVE ACTUATOR - AWSS7	RGS FR	EE-GK-007	TSAWSS7	TEMPERATURE SWITCH - AWSS7	TBD		VSC?		
8	A	AWSS8 - TS8 - C	2C #14	EE-GK-008	AWSS8	VALVE ACTUATOR - AWSS8	RGS FR	EE-GK-008	TSAWSS8	TEMPERATURE SWITCH - AWSS8	TBD		VSC?		
9	A	AWSS9 - TS9 - C	2C #14	EE-GK-009	AWSS9	VALVE ACTUATOR - AWSS9	RGS FR	EE-GK-009	TSAWSS9	TEMPERATURE SWITCH - AWSS9	TBD		VSC?		
10	A	IG10 - TS10 - C	2C #14	EE-GK-010	IG10	GATE ACTUATOR - IG10	RGS FR	EE-GK-010	TSIG10	TEMPERATURE SWITCH - IG10	TBD		VSC?		
11	A	OWG11 - TS11 - C	2C #14	EE-GK-011	OWG11	GATE ACTUATOR - OWG11	RGS FR	EE-GK-011	TSOWG11	TEMPERATURE SWITCH - OWG11	TBD		VSC?		
12	A	IG12 - TS12 - C	2C #14	EE-GK-012	IG12	GATE ACTUATOR - IG12	RGS FR	EE-GK-012	TSIG12	TEMPERATURE SWITCH - IG12	TBD		VSC?		
13	A	OWG13 - TS13 - C	2C #14	EE-GK-013	OWG13	GATE ACTUATOR - OWG13	RGS FR	EE-GK-013	TSOWG13	TEMPERATURE SWITCH - OWG13	TBD		VSC?		
14	A	DSG14 - TS14 - C	2C #14	EE-GK-014	DSG14	VALVE ACTUATOR - DSG14	RGS FR	EE-GK-014	TSDSG14	TEMPERATURE SWITCH - DSG14	TBD		VSC?		
15	A	DSG15 - TS15 - C	2C #14	EE-GK-015	DSG15	VALVE ACTUATOR - DSG15	RGS FR	EE-GK-015	TSDSG15	TEMPERATURE SWITCH - DSG15	TBD		VSC?		
16	A	IG16 - TS16 - C	2C #14	EE-GK-016	IG16	GATE ACTUATOR - IG16	RGS FR	EE-GK-016	TSIG16	TEMPERATURE SWITCH - IG16	TBD		VSC?		
17	A	IG17 - TS17 - C	2C #14	EE-GK-017	IG17	GATE ACTUATOR - IG17	RGS FR	EE-GK-017	TSIG17	TEMPERATURE SWITCH - IG17	TBD		VSC?		
18	A	TG18 - TS18 - C	2C #14	EE-GK-018	TG18	GATE ACTUATOR - TG18	RGS FR	EE-GK-018	TSTG18	TEMPERATURE SWITCH - TG18	TBD		VSC?		
19	A	TG19 - TS19 - C	2C #14	EE-GK-019	TG19	GATE ACTUATOR - TG19	RGS FR	EE-GK-019	TSTG19	TEMPERATURE SWITCH - TG19	TBD		VSC?		
20	A														
21	A														
22	A														
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CONTROL CABLE IDENTIFICATION: -C DIGITAL CONTROL (24VDC, 125VDC & 120VAC) -X ANALOG CONTROL (<50V, 4-20mA, RTD, ETC.) -F FIBER OPTIC -Z COMMUNICATION (ETHERNET, PROFIBUS, ETC.) -CT CURRENT TRANSFORMER -PT POTENTIAL TRANSFORMER															
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0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION										
ELECTRICAL CONSULTANTS, INC.															
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DRAWN BY SAM		DATE 08/22/2024		WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE											
CHECKED BY CMM		DATE 08/22/2024		CABLE SCHEDULE MISCELLANEOUS CABLES											
APPROVED BY CMH		DATE 08/22/2024		TECHNOLOGY HYDRO						DRAWING CATEGORY GENERAL					
SCALE NONE		PROJECT NO. ARL-007		DWG EE-AE-005						REV 0					
1		2		3		4		5		6		7		8	



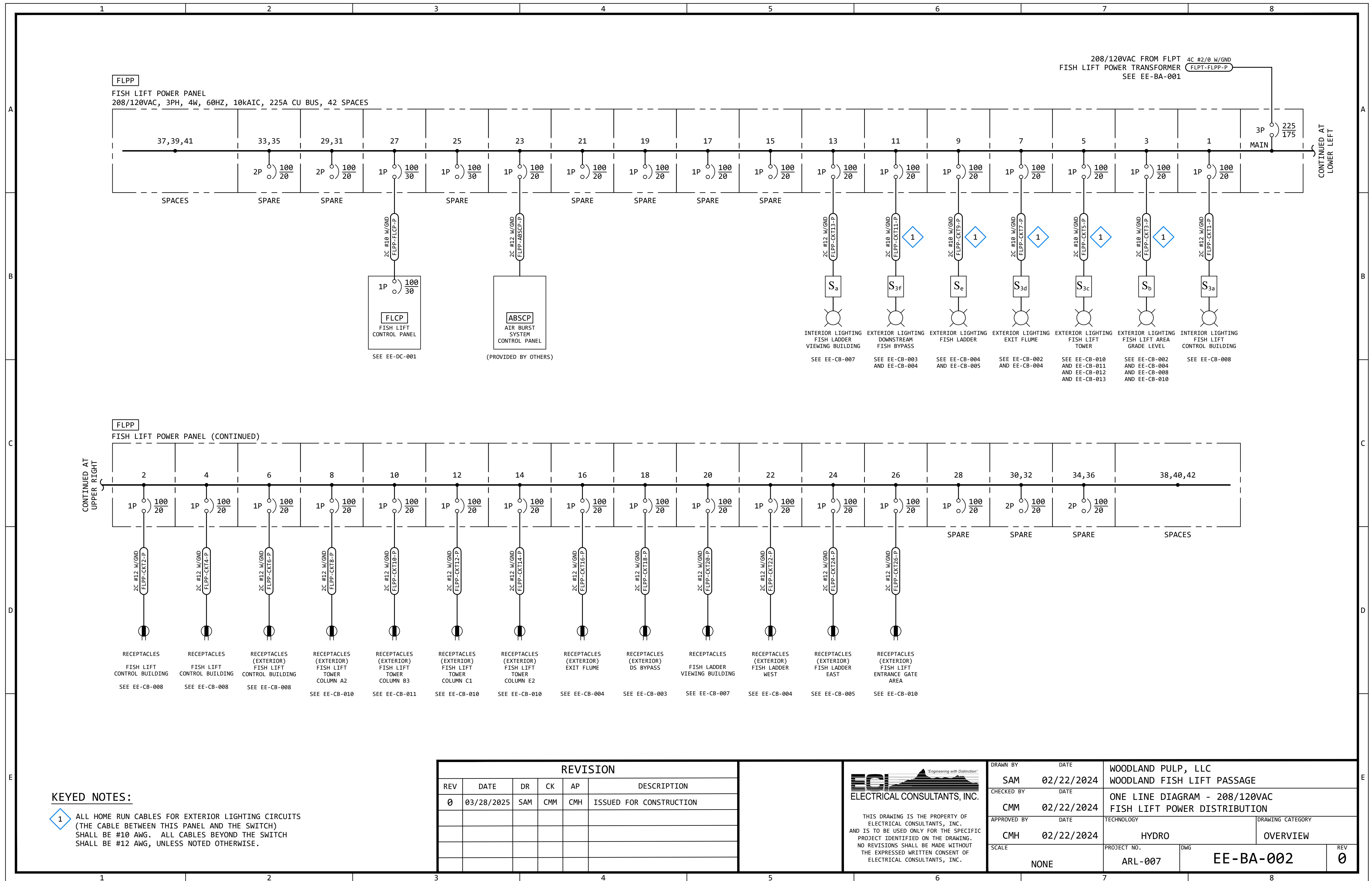
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REV	DATE	DR	CK	AP	DESCRIPTION
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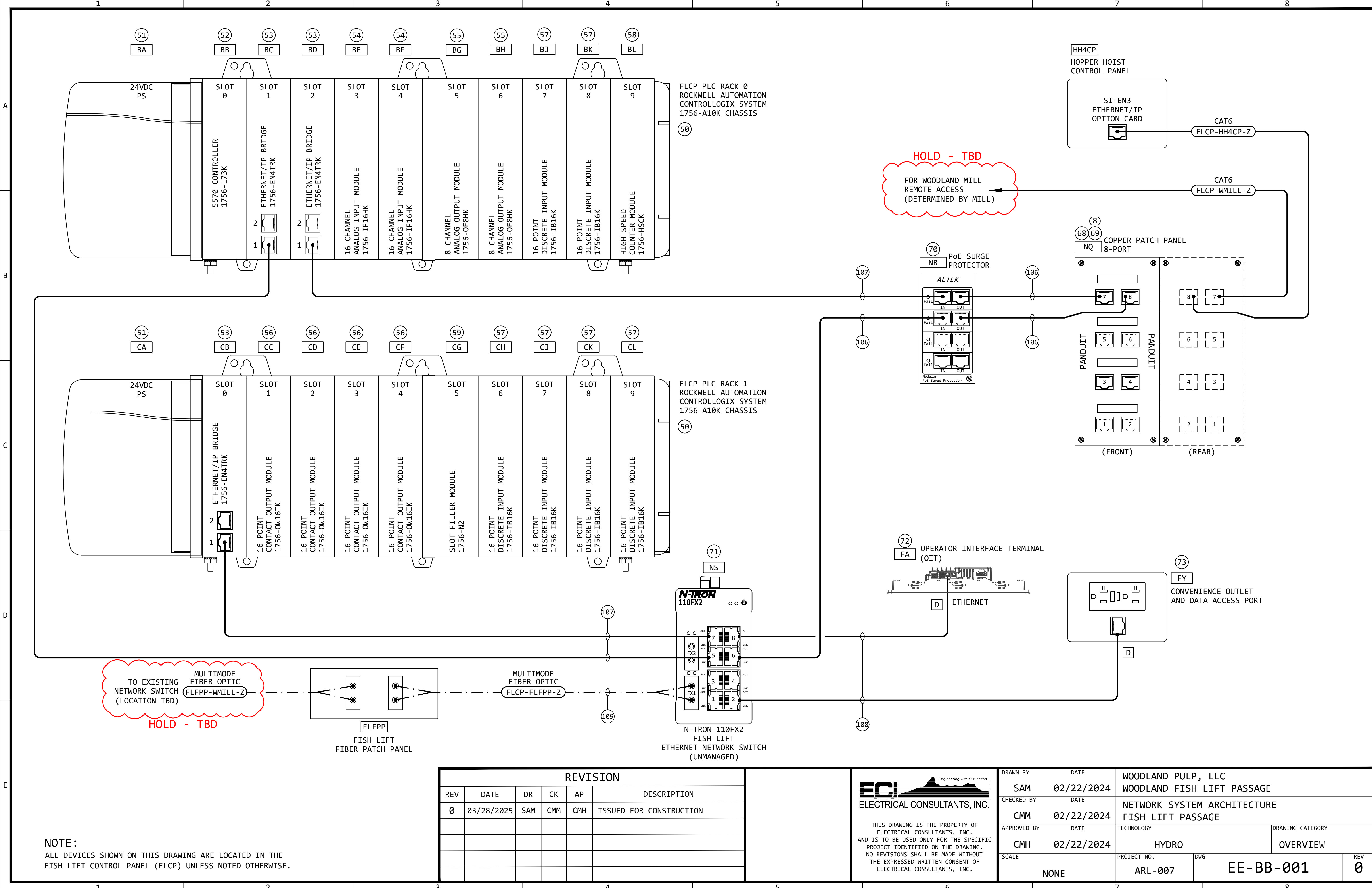


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ELECTRICAL CONSULTANTS, INC.

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ONE LINE DIAGRAM - 480VAC FISH LIFT SERVICE AND POWER DISTRIBUTION		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	OVERVIEW	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-BA-001	0	





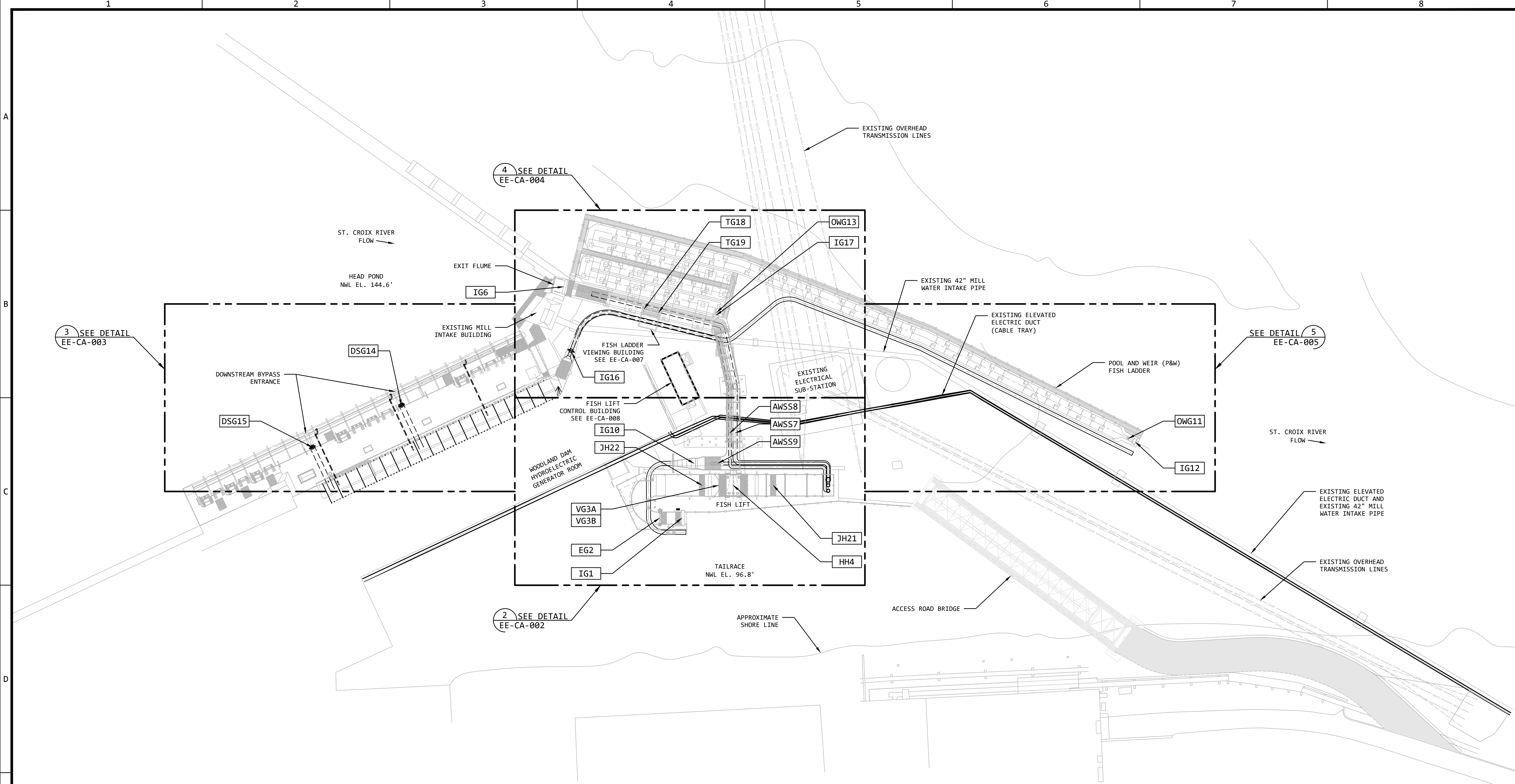
NOTE:
ALL DEVICES SHOWN ON THIS DRAWING ARE LOCATED IN THE FISH LIFT CONTROL PANEL (FLCP) UNLESS NOTED OTHERWISE.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

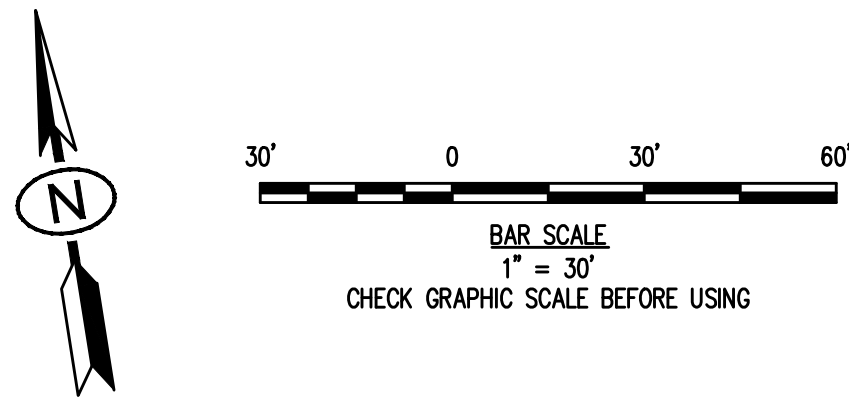


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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	02/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	NETWORK SYSTEM ARCHITECTURE		
CMM	02/22/2024	FISH LIFT PASSAGE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	OVERVIEW	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-BB-001	0	



GENERAL ARRANGEMENT PLAN - FISH LIFT PASSAGE SITE **1**
NOTE: SEE DRAWINGS C-010, M-001 & S-003
SCALE: 1" = 30' --

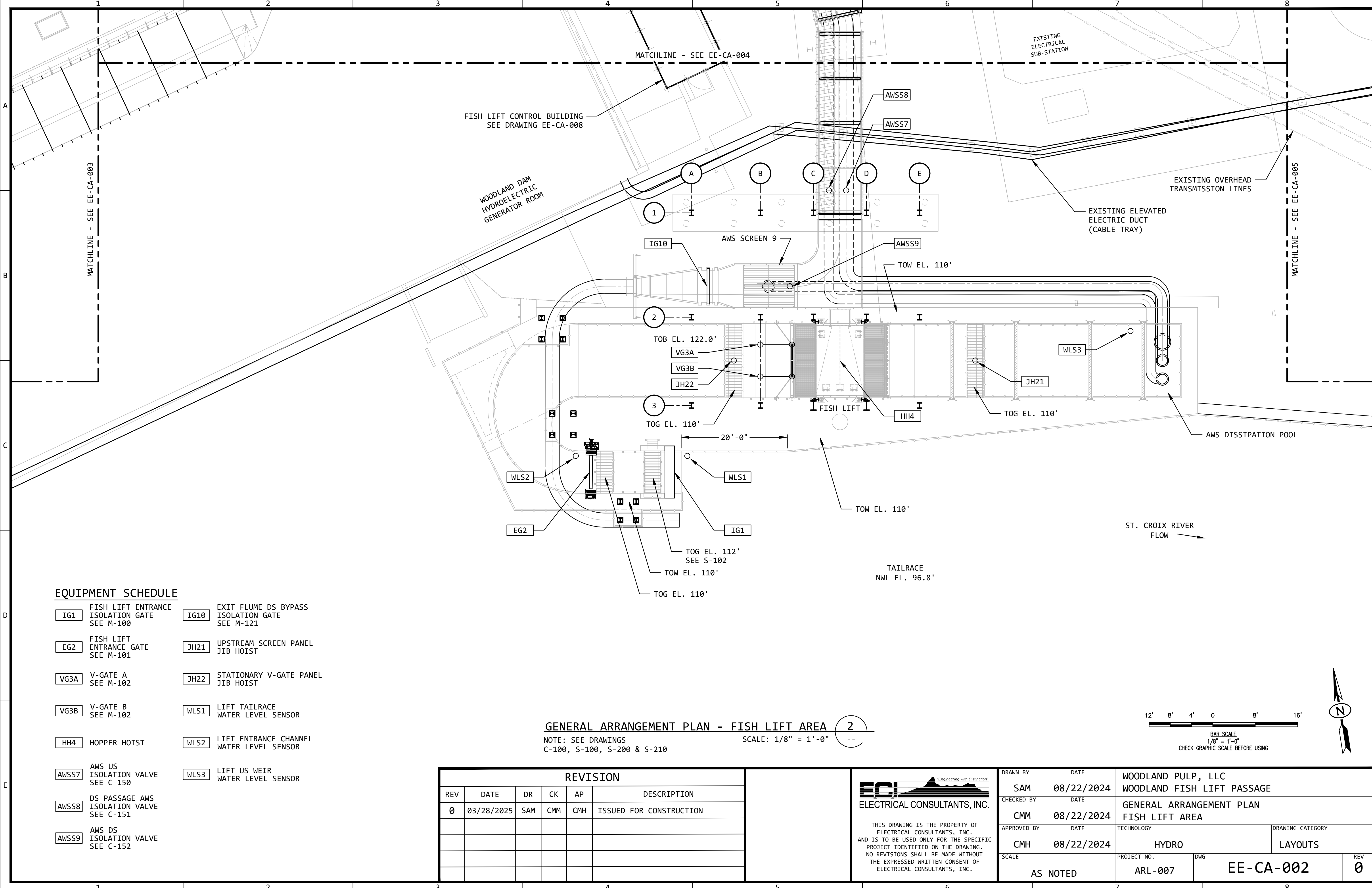


REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GENERAL ARRANGEMENT PLAN FISH LIFT PASSAGE SITE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CA-001	0	



EQUIPMENT SCHEDULE

IG1	FISH LIFT ENTRANCE ISOLATION GATE SEE M-100	IG10	EXIT FLUME DS BYPASS ISOLATION GATE SEE M-121
EG2	FISH LIFT ENTRANCE GATE SEE M-101	JH21	UPSTREAM SCREEN PANEL JIB HOIST
VG3A	V-GATE A SEE M-102	JH22	STATIONARY V-GATE PANEL JIB HOIST
VG3B	V-GATE B SEE M-102	WLS1	LIFT TAILRACE WATER LEVEL SENSOR
HH4	HOPPER HOIST	WLS2	LIFT ENTRANCE CHANNEL WATER LEVEL SENSOR
AWSS7	AWS US ISOLATION VALVE SEE C-150	WLS3	LIFT US WEIR WATER LEVEL SENSOR
AWSS8	DS PASSAGE AWS ISOLATION VALVE SEE C-151		
AWSS9	AWS DS ISOLATION VALVE SEE C-152		

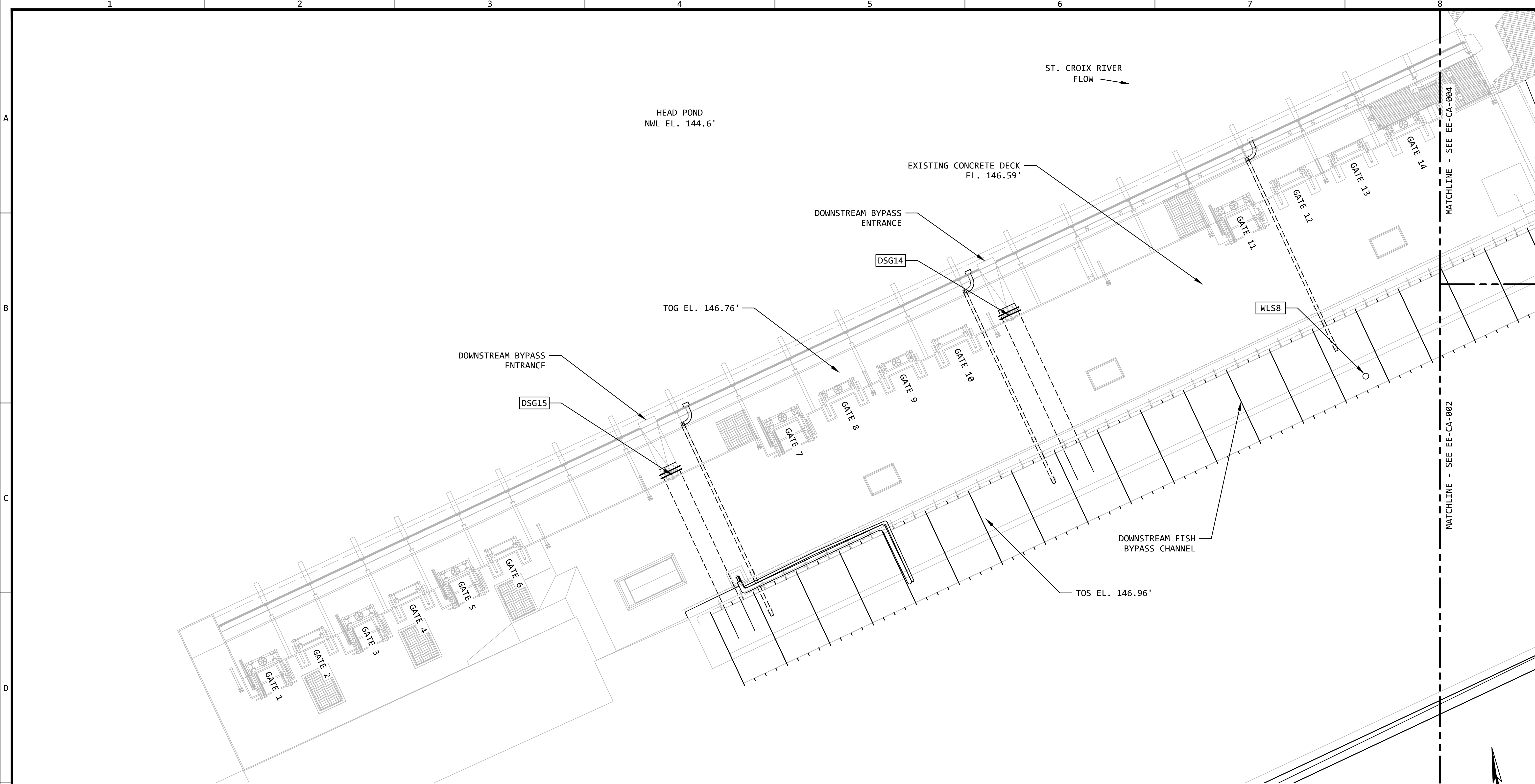
GENERAL ARRANGEMENT PLAN - FISH LIFT AREA 2
NOTE: SEE DRAWINGS C-100, S-100, S-200 & S-210
SCALE: 1/8" = 1'-0"

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GENERAL ARRANGEMENT PLAN FISH LIFT AREA		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG		REV
AS NOTED	ARL-007	EE-CA-002		0



EQUIPMENT SCHEDULE

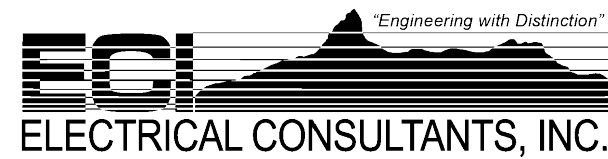
DSG14	DS BYPASS KNIFE GATE VALVE SEE M-160 & S-160
DSG15	DS BYPASS KNIFE GATE VALVE SEE M-160 & S-160
WLS8	INSIDE EXIT FLUME WATER LEVEL SENSOR

GENERAL ARRANGEMENT PLAN - DOWNSTREAM FISH BYPASS AREA 3

NOTE: SEE DRAWINGS C-160 & S-160

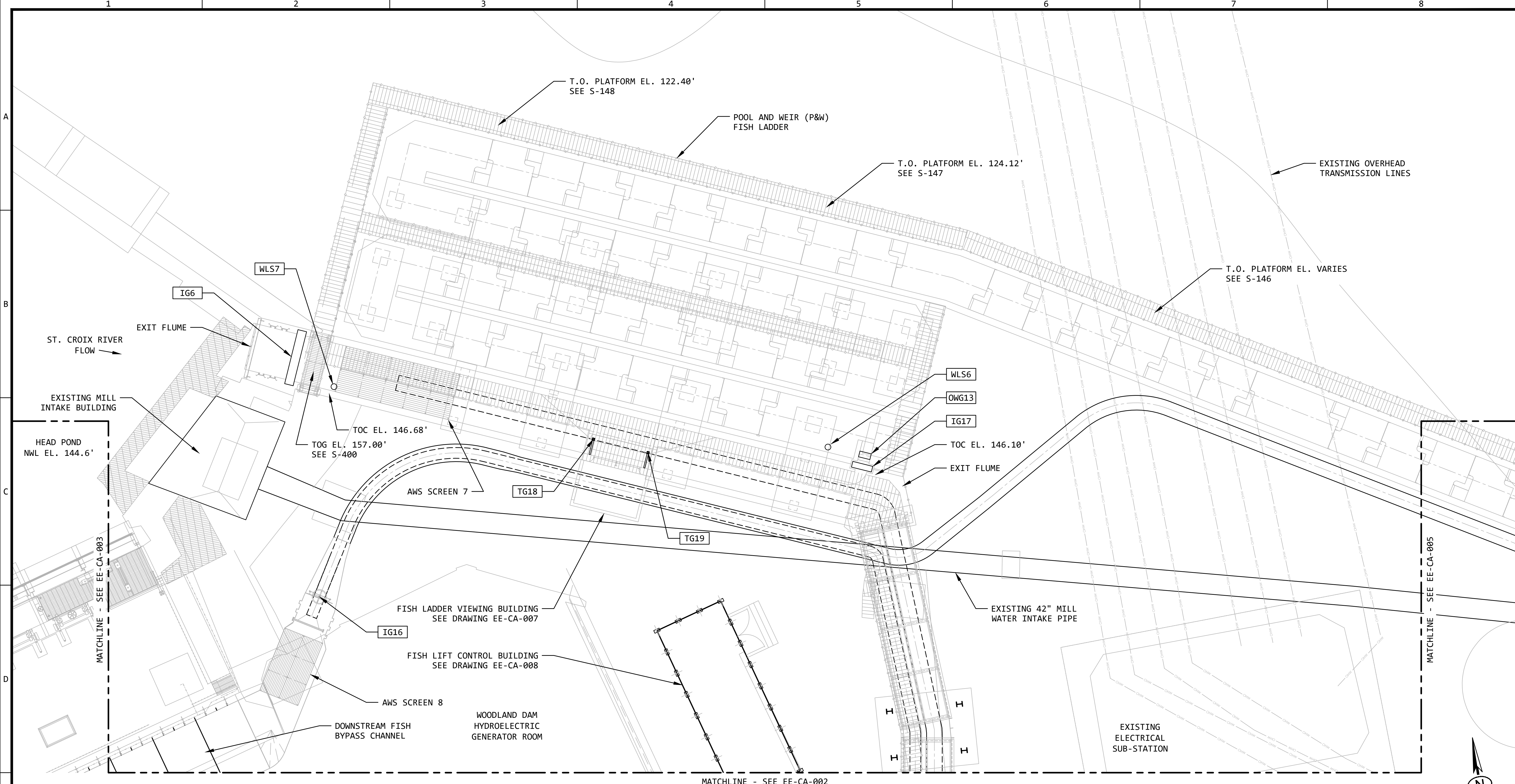
SCALE: 1/8" = 1'-0"

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GENERAL ARRANGEMENT PLAN		
CMM	08/22/2024	DOWNSTREAM FISH BYPASS AREA		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CA-003	0	



GENERAL ARRANGEMENT PLAN - EXIT FLUME AND FISH LADDER AREAS

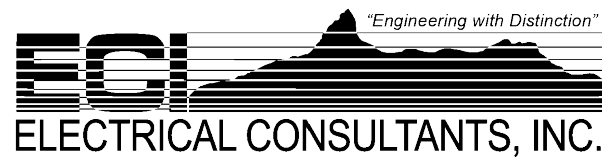
NOTE: SEE DRAWINGS C-120, C-140, S-120 & S-140

SCALE: 1/8" = 1'-0"

EQUIPMENT SCHEDULE

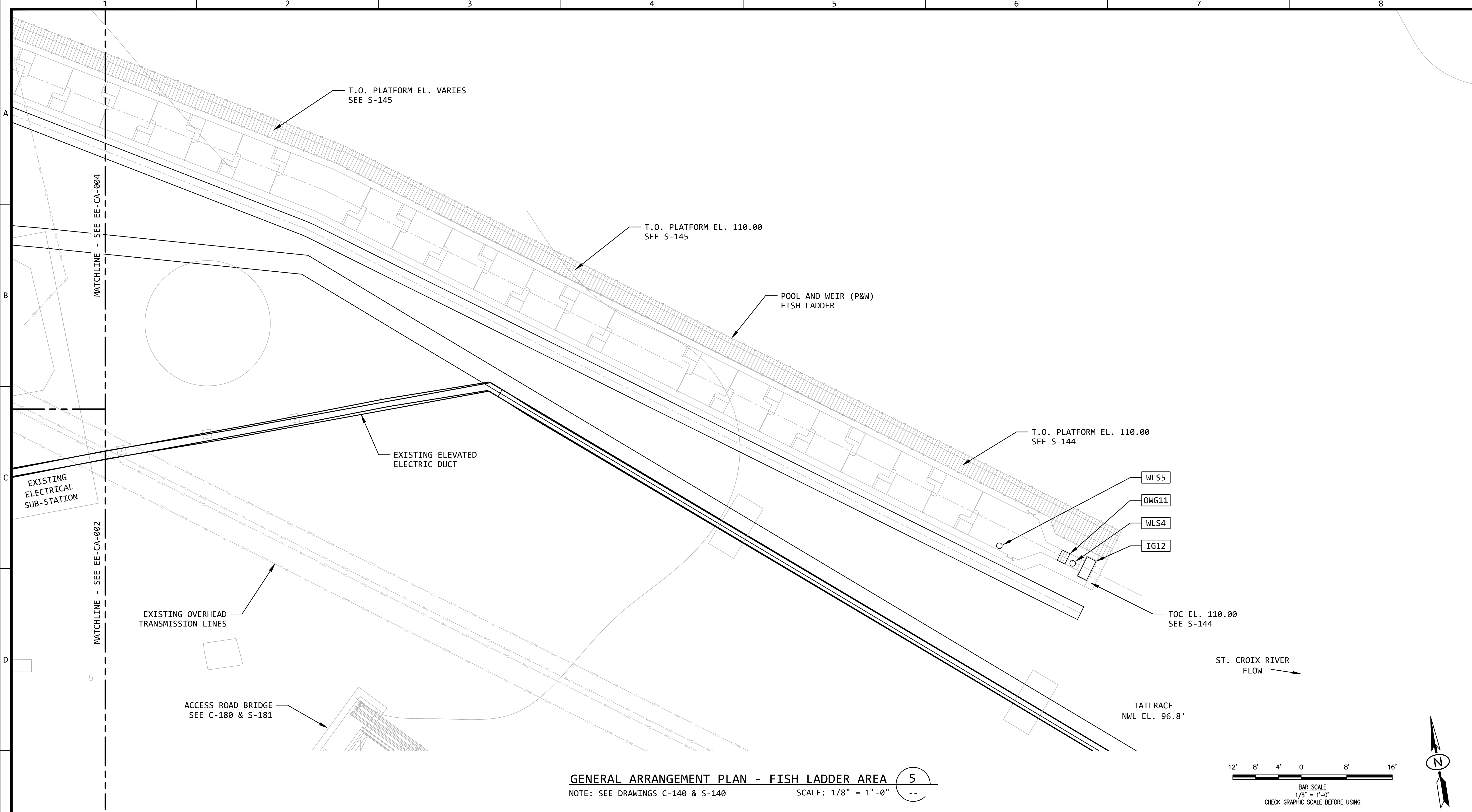
IG6	EXIT FLUME ISOLATION GATE SEE M-120	IG18	TRAP GATE
OWG13	P&W EXIT OVERSHOT WEIR GATE SEE M-142	IG19	TRAP GATE
IG16	DS BYPASS ISOLATION GATE SEE M-163	WLS6	P&W INSIDE EXIT WATER LEVEL SENSOR
IG17	P&W EXIT ISOLATION GATE SEE M-143	WLS7	INSIDE EXIT FLUME ENTRANCE WATER LEVEL SENSOR

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GENERAL ARRANGEMENT PLAN		
CMM	08/22/2024	EXIT FLUME AND FISH LADDER AREAS		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CA-004	0	



GENERAL ARRANGEMENT PLAN - FISH LADDER AREA 5
NOTE: SEE DRAWINGS C-140 & S-140 SCALE: 1/8" = 1'-0" --

EQUIPMENT SCHEDULE

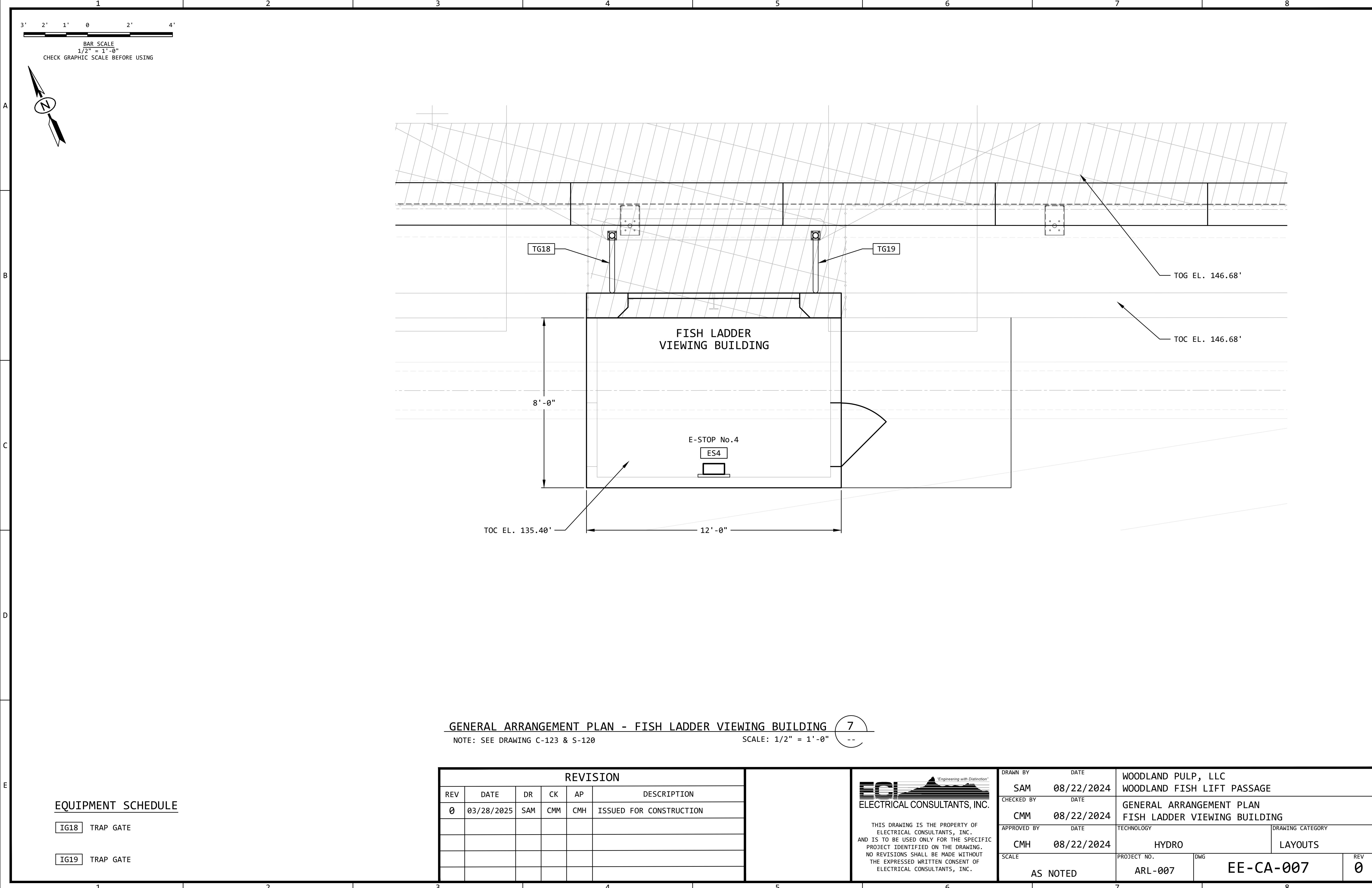
OWG11	P&W ENTRANCE OVERSHOT WEIR GATE SEE M-141	WLS4	P&W TAIL WATER ENTRANCE WATER LEVEL SENSOR
IG12	P&W ENTRANCE ISOLATION GATE SEE M-140	WLS5	P&W INSIDE ENTRANCE WATER LEVEL SENSOR

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GENERAL ARRANGEMENT PLAN FISH LADDER AREA		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CA-005	0	



GENERAL ARRANGEMENT PLAN - FISH LADDER VIEWING BUILDING 7

NOTE: SEE DRAWING C-123 & S-120

SCALE: 1/2" = 1'-0" --

EQUIPMENT SCHEDULE

IG18 TRAP GATE

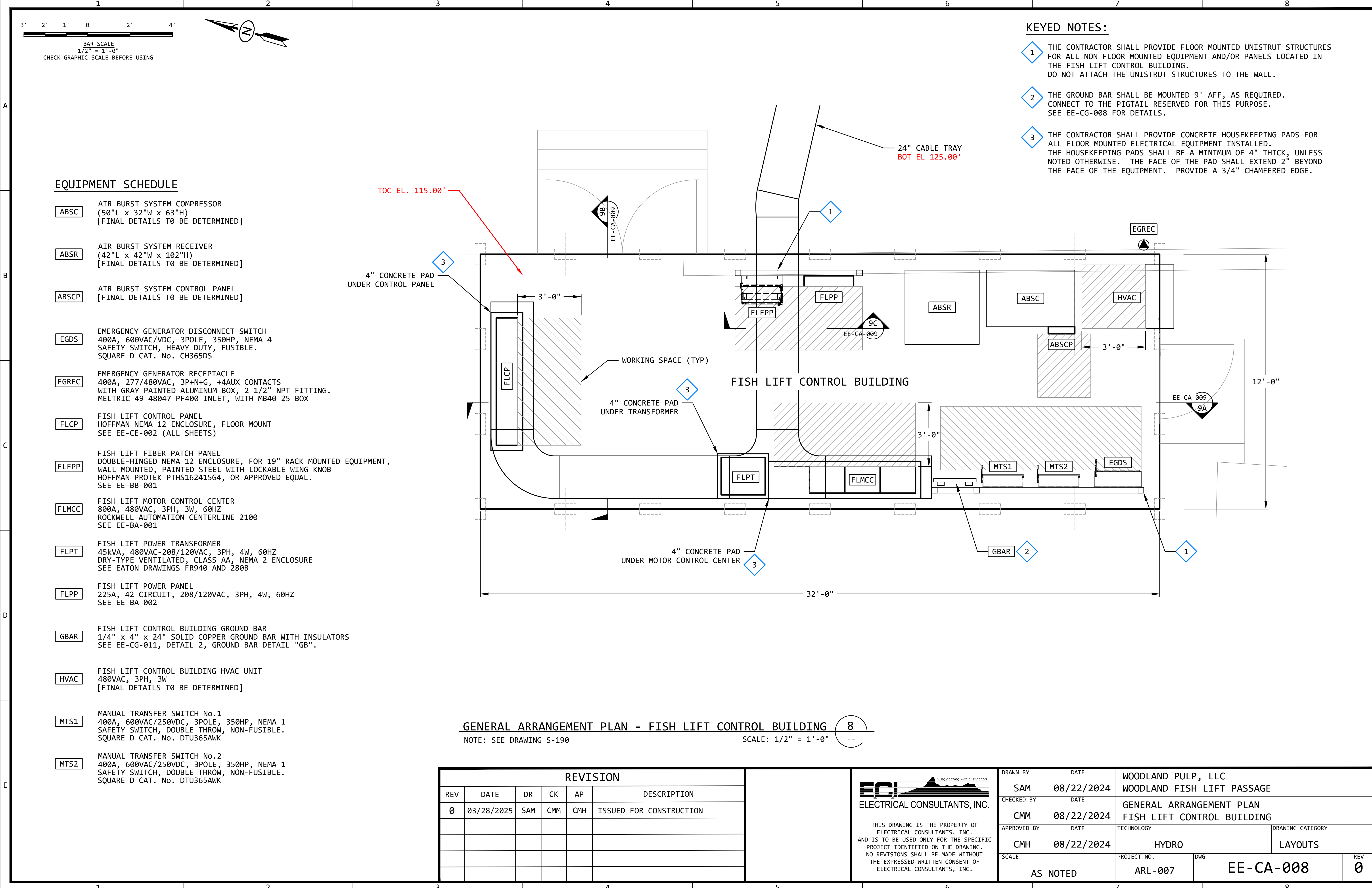
IG19 TRAP GATE

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY		DATE		WOODLAND PULP, LLC	
SAM		08/22/2024		WOODLAND FISH LIFT PASSAGE	
CHECKED BY		DATE		GENERAL ARRANGEMENT PLAN	
CMM		08/22/2024		FISH LADDER VIEWING BUILDING	
APPROVED BY		DATE		TECHNOLOGY	DRAWING CATEGORY
CMH		08/22/2024		HYDRO	LAYOUTS
SCALE		PROJECT NO.		DWG	REV
AS NOTED		ARL-007		EE-CA-007	0



EQUIPMENT SCHEDULE

- ABSC

AIR BURST SYSTEM COMPRESSOR
(50"L x 32"W x 63"H)
[FINAL DETAILS TO BE DETERMINED]
- ABSR

AIR BURST SYSTEM RECEIVER
(42"L x 42"W x 102"H)
[FINAL DETAILS TO BE DETERMINED]
- ABSCP

AIR BURST SYSTEM CONTROL PANEL
[FINAL DETAILS TO BE DETERMINED]
- EGDS

EMERGENCY GENERATOR DISCONNECT SWITCH
400A, 600VAC/VDC, 3POLE, 350HP, NEMA 4
SAFETY SWITCH, HEAVY DUTY, FUSIBLE.
SQUARE D CAT. No. CH365DS
- EGREC

EMERGENCY GENERATOR RECEPTACLE
400A, 277/480VAC, 3P+N+G, +4AUX CONTACTS
WITH GRAY PAINTED ALUMINUM BOX, 2 1/2" NPT FITTING.
MELTRIC 49-48047 PF400 INLET, WITH MB40-25 BOX
- FLCP

FISH LIFT CONTROL PANEL
HOFFMAN NEMA 12 ENCLOSURE, FLOOR MOUNT
SEE EE-CE-002 (ALL SHEETS)
- FLFPP

FISH LIFT FIBER PATCH PANEL
DOUBLE-HINGED NEMA 12 ENCLOSURE, FOR 19" RACK MOUNTED EQUIPMENT,
WALL MOUNTED, PAINTED STEEL WITH LOCKABLE WING KNOB
HOFFMAN PROTEK PTHS162415G4, OR APPROVED EQUAL.
SEE EE-BB-001
- FLMCC

FISH LIFT MOTOR CONTROL CENTER
800A, 480VAC, 3PH, 3W, 60HZ
ROCKWELL AUTOMATION CENTERLINE 2100
SEE EE-BA-001
- FLPT

FISH LIFT POWER TRANSFORMER
45kVA, 480VAC-208/120VAC, 3PH, 4W, 60HZ
DRY-TYPE VENTILATED, CLASS AA, NEMA 2 ENCLOSURE
SEE EATON DRAWINGS FR940 AND 280B
- FLPP

FISH LIFT POWER PANEL
225A, 42 CIRCUIT, 208/120VAC, 3PH, 4W, 60HZ
SEE EE-BA-002
- GBAR

FISH LIFT CONTROL BUILDING GROUND BAR
1/4" x 4" x 24" SOLID COPPER GROUND BAR WITH INSULATORS
SEE EE-CG-011, DETAIL 2, GROUND BAR DETAIL "GB".
- HVAC

FISH LIFT CONTROL BUILDING HVAC UNIT
480VAC, 3PH, 3W
[FINAL DETAILS TO BE DETERMINED]
- MTS1

MANUAL TRANSFER SWITCH No.1
400A, 600VAC/250VDC, 3POLE, 350HP, NEMA 1
SAFETY SWITCH, DOUBLE THROW, NON-FUSIBLE.
SQUARE D CAT. No. DTU365AWK
- MTS2

MANUAL TRANSFER SWITCH No.2
400A, 600VAC/250VDC, 3POLE, 350HP, NEMA 1
SAFETY SWITCH, DOUBLE THROW, NON-FUSIBLE.
SQUARE D CAT. No. DTU365AWK

GENERAL ARRANGEMENT PLAN - FISH LIFT CONTROL BUILDING 8
NOTE: SEE DRAWING S-190 SCALE: 1/2" = 1'-0" --

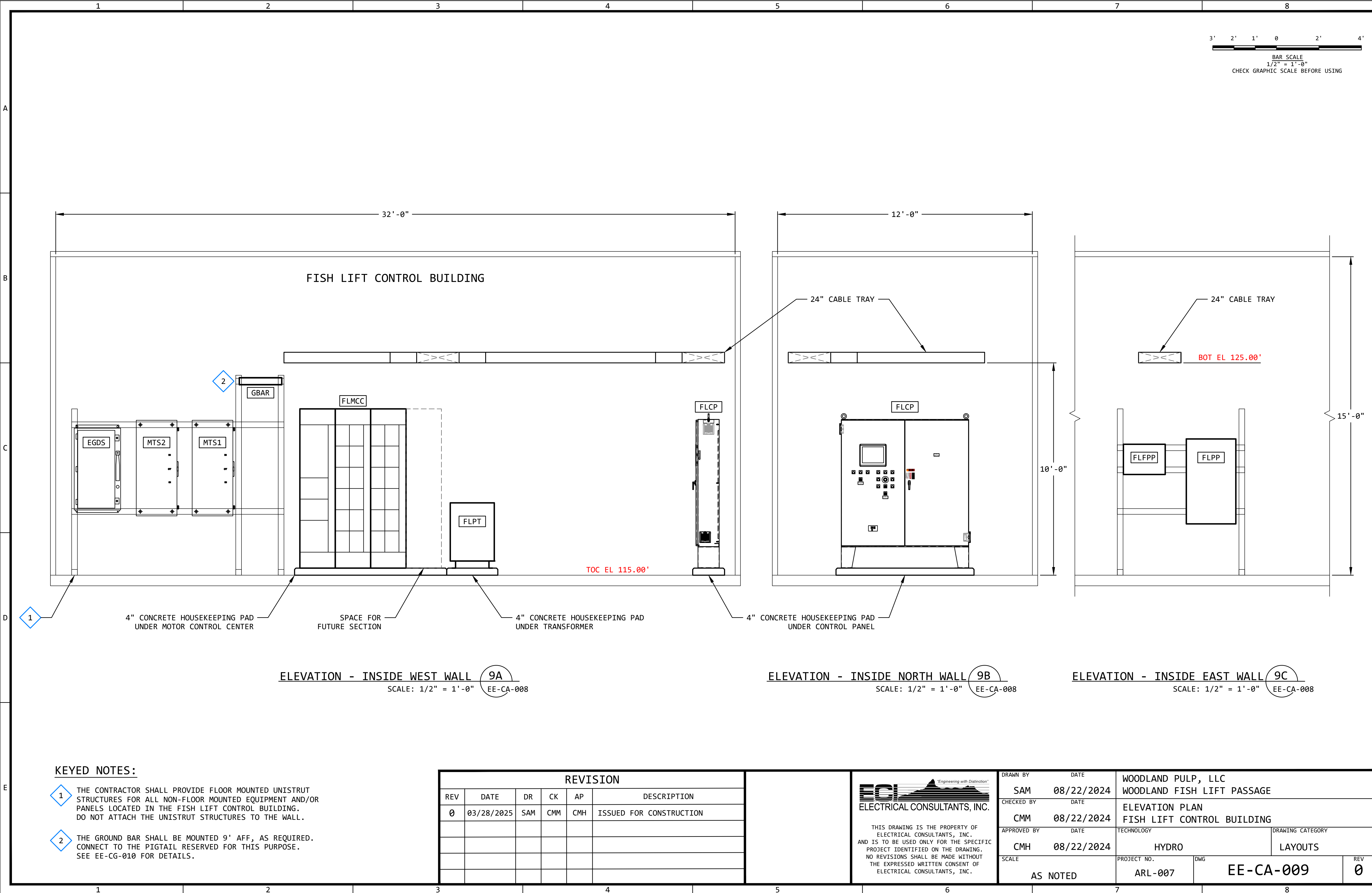
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

ECI

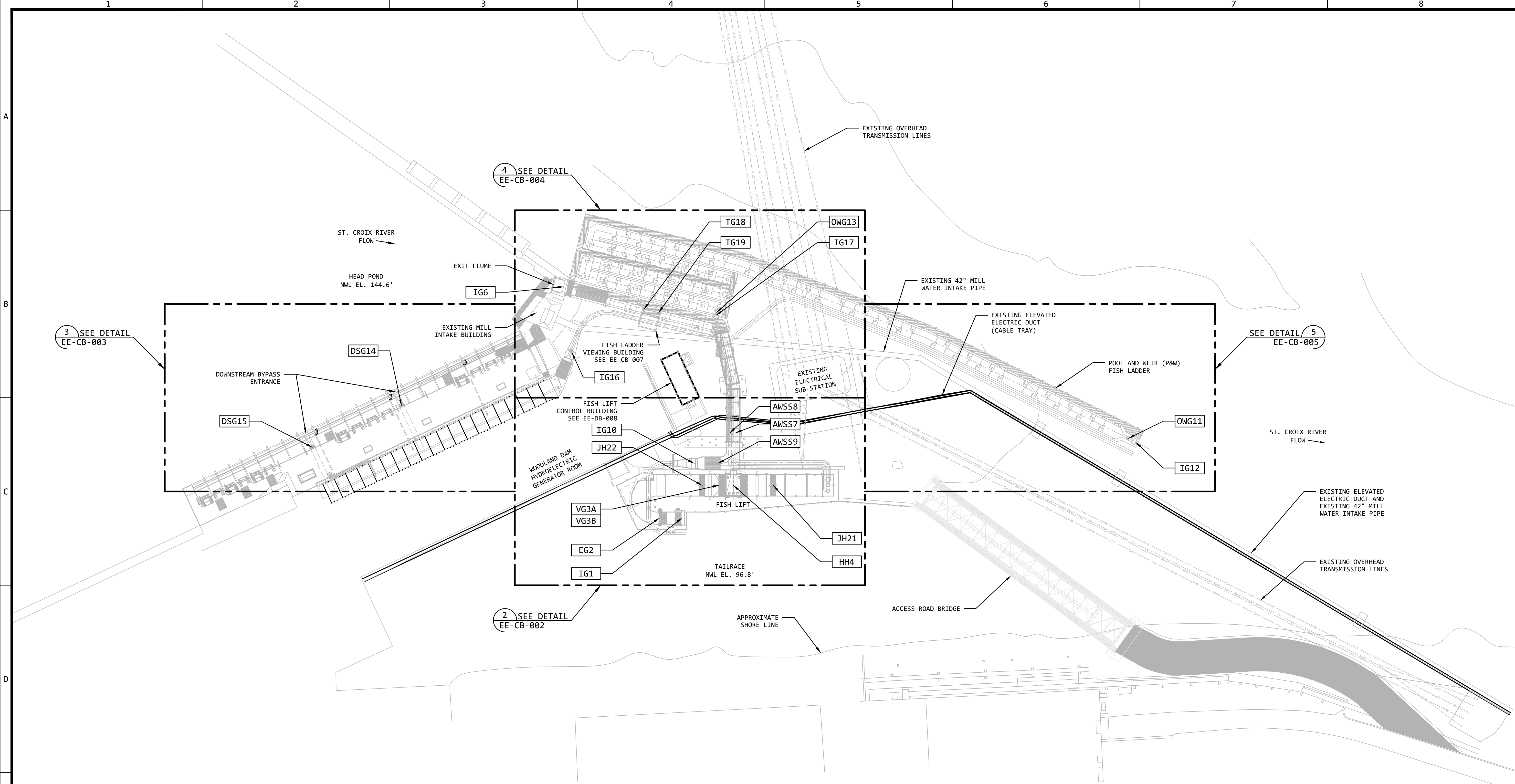
Electrical Consultants, Inc.

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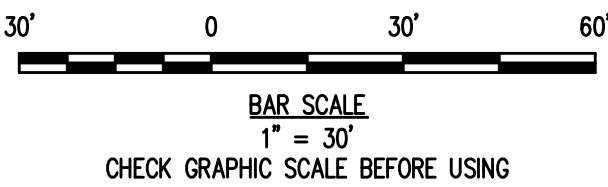
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CHECKED BY		DATE		GENERAL ARRANGEMENT PLAN FISH LIFT CONTROL BUILDING		
APPROVED BY		DATE		TECHNOLOGY	DRAWING CATEGORY	
SCALE		PROJECT NO.		DWG	REV	
AS NOTED		ARL-007		EE-CA-008	0	



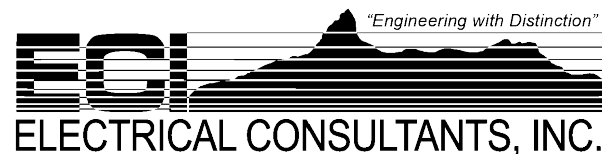
	1	2	3	4	5	6	7	8																																																																																																																																													
A	<table><tr><th colspan="10">LIGHTING FIXTURE SCHEDULE</th></tr><tr><th>TYPE</th><th>DESCRIPTION</th><th>MANUFACTURER</th><th>CATALOG No.</th><th>LAMP TYPE OR SELECTION</th><th>FIXTURE LUMENS</th><th>FIXTURE WATTS</th><th>VOLTAGE</th><th>MOUNTING</th><th>COMMENTS</th></tr><tr><td>FL</td><td>LED FLOOD LIGHT, MEDIUM DISTRIBUTION</td><td>HALCO</td><td>SFLD1-LS-CS-U-BZ-PC</td><td>4000K LED</td><td>4050-4350</td><td>30</td><td>120VAC</td><td>VARIES</td><td>UNIVERSAL INPUT VOLTAGE CS: COLOR SELECTABLE</td></tr><tr><td>LS</td><td>LED LINEAR STRIP, 4 FT, GASKETED</td><td>HALCO</td><td>LS4/36U40</td><td>4000K LED</td><td>4903</td><td>36</td><td>120VAC</td><td>BOF 9'-6" AFF</td><td>UNIVERSAL INPUT VOLTAGE</td></tr><tr><td>WP</td><td>LED WALL PACK, LOW PROFILE, BRONZE, ALUMINUM HOUSING, GLASS PRISMATIC LENS</td><td>HALCO</td><td>LPWP-2-HLS-CS-U-BZ</td><td>4000K LED</td><td>9800</td><td>70</td><td>120VAC</td><td>BOF 10'-0" AFF</td><td>UNIVERSAL INPUT VOLTAGE CS: COLOR SELECTABLE</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><th colspan="10">LIGHTING FIXTURE ACCESSORIES</th></tr><tr><td>SP</td><td>SWIVELPOLE, 10', BASE MOUNTED, 316 STAINLESS STEEL</td><td>SWIVELPOLE</td><td>ST7-M2-2400-T-NCT-SS</td><td></td><td></td><td></td><td></td><td>SURFACE OR BRACKET</td><td>STRUCTURE MOUNTED, INDEPENDENT OF GUARDRAIL.</td></tr><tr><td>MB</td><td>MOUNTING BRACKET FOR SWIVELPOLE</td><td>SWIVELPOLE</td><td>MBK9-002-HG</td><td></td><td></td><td></td><td></td><td>SWIVELPOLE BASE</td><td></td></tr><tr><td>TM</td><td>ROUND POLE MOUNT TENON FOR SWIVELPOLE, 1/2" KNUCKLE SLIPFITTER, , DARK BRONZE</td><td>LBS LIGHTING</td><td>WSD-TAD2.5-1/2-D</td><td></td><td></td><td></td><td></td><td>TOP OF SWIVELPOLE</td><td>TENON MOUNT FOR USE WITH TYPE FL FLOODLIGHT</td></tr><tr><td>BM</td><td>WEATHERPROOF BOX WITH 1/2" THREADED HOLE(S) FOR KNUCKLE MOUNTED FIXTURE</td><td>BY CONTRACTOR</td><td>TBD</td><td></td><td></td><td></td><td></td><td>BOF 10'-0" AFF</td><td>BOX MOUNT FOR USE WITH TYPE FL FLOODLIGHT</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								LIGHTING FIXTURE SCHEDULE										TYPE	DESCRIPTION	MANUFACTURER	CATALOG No.	LAMP TYPE OR SELECTION	FIXTURE LUMENS	FIXTURE WATTS	VOLTAGE	MOUNTING	COMMENTS	FL	LED FLOOD LIGHT, MEDIUM DISTRIBUTION	HALCO	SFLD1-LS-CS-U-BZ-PC	4000K LED	4050-4350	30	120VAC	VARIES	UNIVERSAL INPUT VOLTAGE CS: COLOR SELECTABLE	LS	LED LINEAR STRIP, 4 FT, GASKETED	HALCO	LS4/36U40	4000K LED	4903	36	120VAC	BOF 9'-6" AFF	UNIVERSAL INPUT VOLTAGE	WP	LED WALL PACK, LOW PROFILE, BRONZE, ALUMINUM HOUSING, GLASS PRISMATIC LENS	HALCO	LPWP-2-HLS-CS-U-BZ	4000K LED	9800	70	120VAC	BOF 10'-0" AFF	UNIVERSAL INPUT VOLTAGE CS: COLOR SELECTABLE																					LIGHTING FIXTURE ACCESSORIES										SP	SWIVELPOLE, 10', BASE MOUNTED, 316 STAINLESS STEEL	SWIVELPOLE	ST7-M2-2400-T-NCT-SS					SURFACE OR BRACKET	STRUCTURE MOUNTED, INDEPENDENT OF GUARDRAIL.	MB	MOUNTING BRACKET FOR SWIVELPOLE	SWIVELPOLE	MBK9-002-HG					SWIVELPOLE BASE		TM	ROUND POLE MOUNT TENON FOR SWIVELPOLE, 1/2" KNUCKLE SLIPFITTER, , DARK BRONZE	LBS LIGHTING	WSD-TAD2.5-1/2-D					TOP OF SWIVELPOLE	TENON MOUNT FOR USE WITH TYPE FL FLOODLIGHT	BM	WEATHERPROOF BOX WITH 1/2" THREADED HOLE(S) FOR KNUCKLE MOUNTED FIXTURE	BY CONTRACTOR	TBD					BOF 10'-0" AFF	BOX MOUNT FOR USE WITH TYPE FL FLOODLIGHT																					
LIGHTING FIXTURE SCHEDULE																																																																																																																																																					
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FL	LED FLOOD LIGHT, MEDIUM DISTRIBUTION	HALCO	SFLD1-LS-CS-U-BZ-PC	4000K LED	4050-4350	30	120VAC	VARIES	UNIVERSAL INPUT VOLTAGE CS: COLOR SELECTABLE																																																																																																																																												
LS	LED LINEAR STRIP, 4 FT, GASKETED	HALCO	LS4/36U40	4000K LED	4903	36	120VAC	BOF 9'-6" AFF	UNIVERSAL INPUT VOLTAGE																																																																																																																																												
WP	LED WALL PACK, LOW PROFILE, BRONZE, ALUMINUM HOUSING, GLASS PRISMATIC LENS	HALCO	LPWP-2-HLS-CS-U-BZ	4000K LED	9800	70	120VAC	BOF 10'-0" AFF	UNIVERSAL INPUT VOLTAGE CS: COLOR SELECTABLE																																																																																																																																												
LIGHTING FIXTURE ACCESSORIES																																																																																																																																																					
SP	SWIVELPOLE, 10', BASE MOUNTED, 316 STAINLESS STEEL	SWIVELPOLE	ST7-M2-2400-T-NCT-SS					SURFACE OR BRACKET	STRUCTURE MOUNTED, INDEPENDENT OF GUARDRAIL.																																																																																																																																												
MB	MOUNTING BRACKET FOR SWIVELPOLE	SWIVELPOLE	MBK9-002-HG					SWIVELPOLE BASE																																																																																																																																													
TM	ROUND POLE MOUNT TENON FOR SWIVELPOLE, 1/2" KNUCKLE SLIPFITTER, , DARK BRONZE	LBS LIGHTING	WSD-TAD2.5-1/2-D					TOP OF SWIVELPOLE	TENON MOUNT FOR USE WITH TYPE FL FLOODLIGHT																																																																																																																																												
BM	WEATHERPROOF BOX WITH 1/2" THREADED HOLE(S) FOR KNUCKLE MOUNTED FIXTURE	BY CONTRACTOR	TBD					BOF 10'-0" AFF	BOX MOUNT FOR USE WITH TYPE FL FLOODLIGHT																																																																																																																																												
B	LIGHTING AND POWER PLAN SYMBOLS LIGHTING FIXTURES: LS a O 4' LED LINEAR STRIP 4L b O 2'x4' LED LIGHT FIXTURE DL C d DOWN LIGHT FIXTURE FL e f FLOOD LIGHT FIXTURE PL a POLE MOUNTED LIGHT FIXTURE WP b WALLPACK LIGHT FIXTURE NOTE: UPPER CASE LETTERS (LS, FL, WP) INDICATES FIXTURE TYPE. (SEE LIGHTING FIXTURE SCHEDULE) LOWER CASE LETTER (a, b) INDICATES SWITCHING CIRCUIT. SWITCHES: S_b S S₂ S₃ S₄ S_D S_{HR} S_K S_{LV} S_{OS} S_P S_{WP} S_{XP} TOGGLE SWITCH - AS SPECIFIED: LOWER CASE LETTER INDICATES SWITCHING CIRCUIT BLANK SINGLE POLE SWITCH 2 DOUBLE POLE SWITCH 3 3-WAY SWITCH 4 4-WAY SWITCH D DIMMER SWITCH HR HORSEPOWER RATED SWITCH K KEY OPERATED SWITCH LV LOW VOLTAGE SWITCH OS OCCUPANCY SWITCH P SINGLE POLE SWITCH WITH PILOT LAMP WP WEATHER PROOF SWITCH XP EXPLOSION PROOF SWITCH RECEPTACLES: SINGLE RECEPTACLE. NEMA 5-20R DUPLEX RECEPTACLE. NEMA 5-20R QUAD RECEPTACLE. NEMA 5-20R DUPLEX GFCI RECEPTACLE. NEMA 5-20R QUAD GFCI RECEPTACLE. NEMA 5-20R DUPLEX RECEPTACLE. NEMA 5-20R FLUSH FLOOR MOUNTED QUAD RECEPTACLE. NEMA 5-20R FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE. NEMA 5-20R FLUSH FLOOR MOUNTED WITH PROVISIONS FOR DATA SPECIAL RECEPTACLE. NEMA CONFIGURATION AS REQUIRED. RECEPTACLE - AS SPECIFIED: WP WEATHER PROOF XP EXPLOSION PROOF EM EMERGENCY CIRCUIT MISC. POWER # MOTOR, # HORSEPOWER RATING ELECTRICAL POWER PANELBOARD, SURFACE MOUNTED ELECTRICAL POWER PANELBOARD, FLUSH MOUNTED DISCONNECT SWITCH (NF = NON-FUSED) MAGNETIC MOTOR STARTER COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT MANUAL MOTOR STARTER WIRELESS ACCESS POINT EXIT AND EMERGENCY LIGHTING: EXIT SIGN CEILING, UNIT OR WALL MOUNTED, AS REQUIRED. ARROW(S) INDICATES EGRESS DIRECTION. SHADED AREA INDICATES SIGN FACE. TANDEM EMERGENCY LIGHT BATTERY PACK AND EXIT SIGN ARROW(S) INDICATES EGRESS DIRECTION. SHADED AREA INDICATES SIGN FACE. ROMAN NUMERALS FOR REMOTE HEAD REFERENCE. EMERGENCY LIGHT BATTERY PACK ROMAN NUMERALS FOR REMOTE HEAD REFERENCE REMOTE EMERGENCY LIGHTING HEAD ROMAN NUMERALS FOR BATTERY PACK POWER REFERENCE REVISION <table><tr><th>REV</th><th>DATE</th><th>DR</th><th>CK</th><th>AP</th><th>DESCRIPTION</th></tr><tr><td>0</td><td>03/28/2025</td><td>SAM</td><td>CMM</td><td>CMH</td><td>ISSUED FOR CONSTRUCTION</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> ECI Electrical Consultants, Inc. Engineering with Distinction THIS DRAWING IS THE PROPERTY OF ELECTRICAL CONSULTANTS, INC. AND IS TO BE USED ONLY FOR THE SPECIFIC PROJECT IDENTIFIED ON THE DRAWING. NO REVISIONS SHALL BE MADE WITHOUT THE EXPRESSED WRITTEN CONSENT OF ELECTRICAL CONSULTANTS, INC. DRAWN BY SAM DATE 08/22/2024 CHECKED BY CMM DATE 08/22/2024 APPROVED BY CMH DATE 08/22/2024 SCALE NONE PROJECT NO. ARL-007 DWG EE-CB-000 REV 0 WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE LIGHTING AND POWER LEGEND SHEET FISH LIFT PASSAGE TECHNOLOGY HYDRO DRAWING CATEGORY LAYOUTS								REV	DATE	DR	CK	AP	DESCRIPTION	0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION																																																																																																																																	
REV	DATE	DR	CK	AP	DESCRIPTION																																																																																																																																																
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION																																																																																																																																																
E	1	2	3	4	5	6	7	8																																																																																																																																													



LIGHTING AND POWER PLAN - FISH LIFT PASSAGE SITE 1
NOTE: SEE DRAWINGS C-010, M-001 & S-003 SCALE: 1" = 30' --

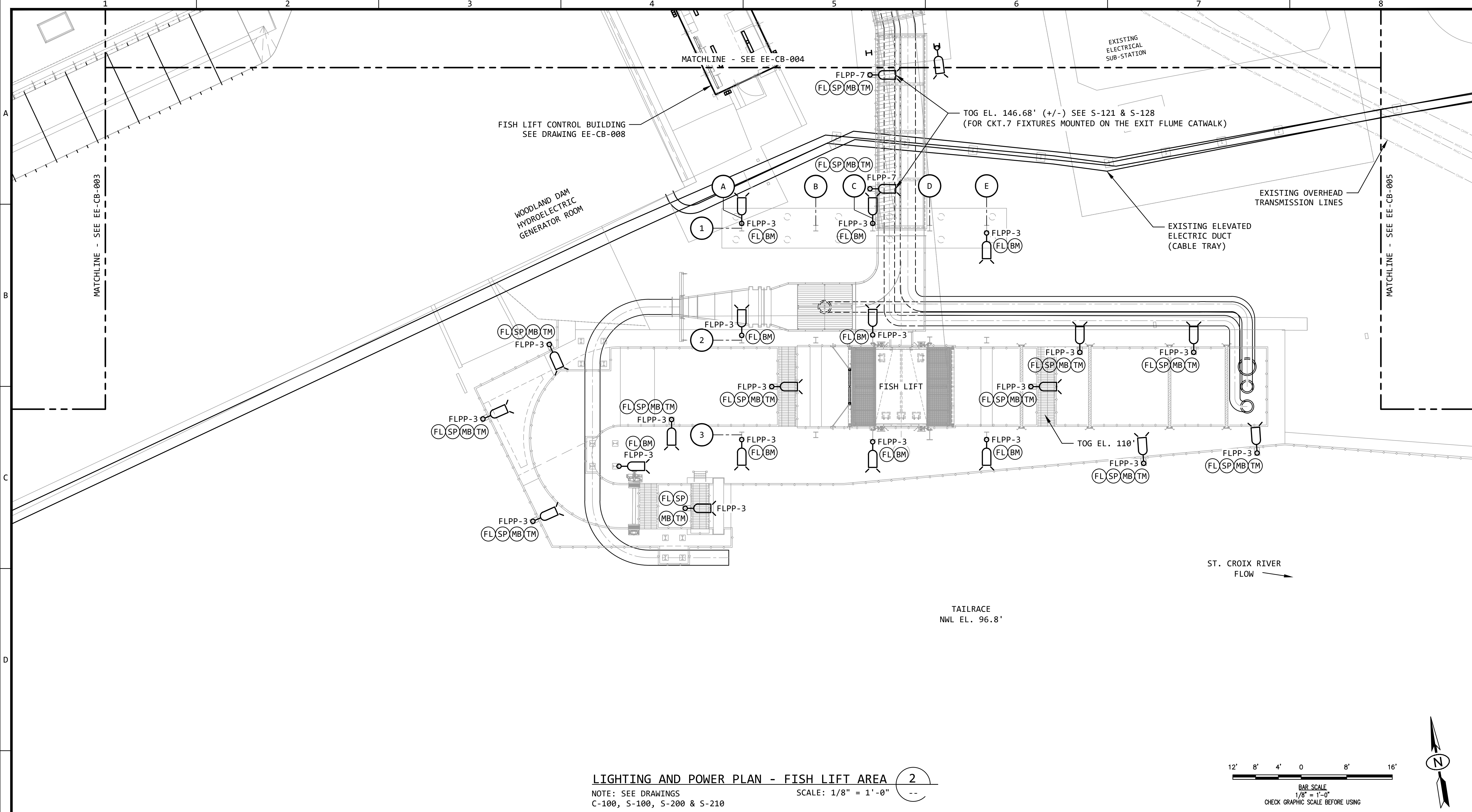


REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

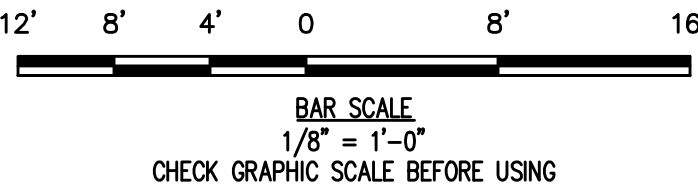


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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	LIGHTING AND POWER PLAN FISH LIFT PASSAGE SITE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CB-001	0	



LIGHTING AND POWER PLAN - FISH LIFT AREA 2
NOTE: SEE DRAWINGS C-100, S-100, S-200 & S-210
SCALE: 1/8" = 1'-0"



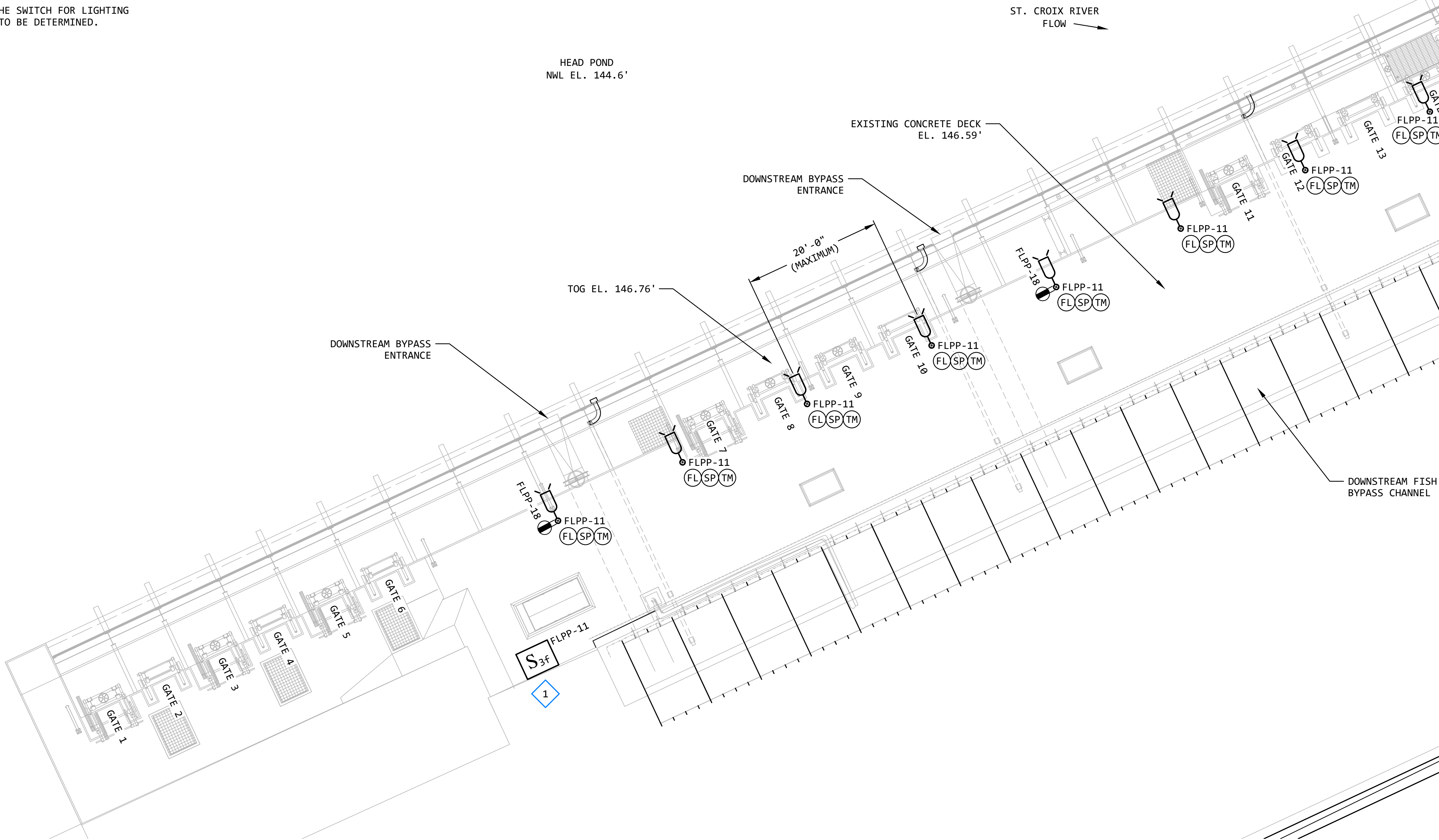
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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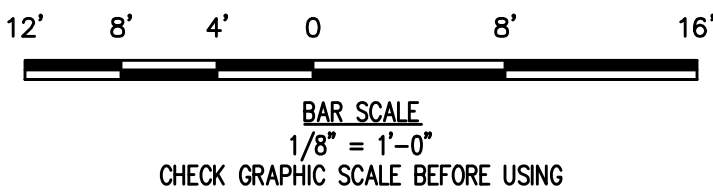
DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	LIGHTING AND POWER PLAN		
CMM	08/22/2024	FISH LIFT AREA		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CB-002	0	

KEYED NOTES:

1 THE LOCATION FOR THE SWITCH FOR LIGHTING CIRCUIT 11 IS YET TO BE DETERMINED.



LIGHTING AND POWER PLAN - DOWNSTREAM FISH BYPASS AREA 3
NOTE: SEE DRAWINGS C-160 & S-160
SCALE: 1/8" = 1'-0"



REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

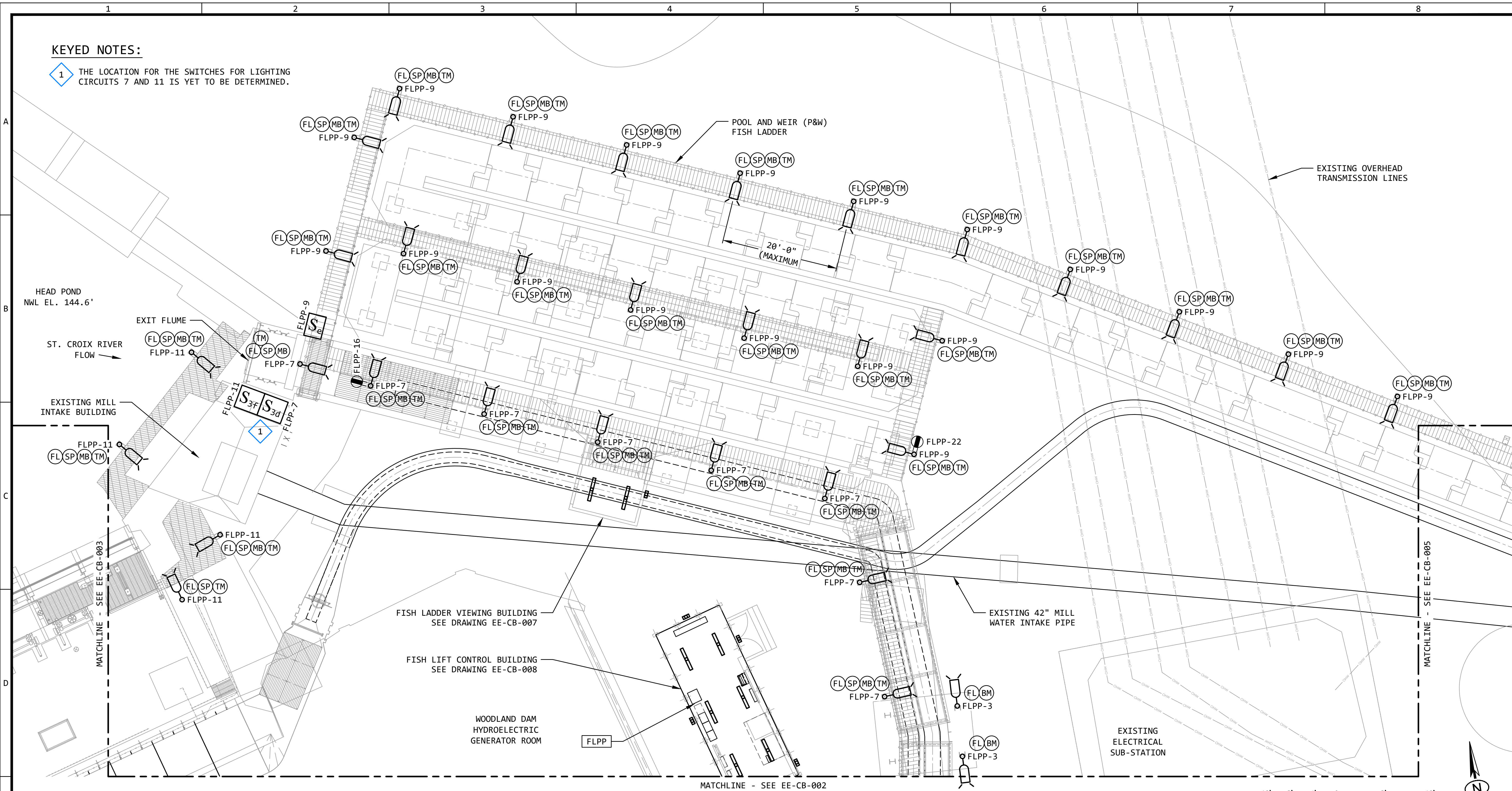


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DRAWN BY	DATE	WOODLAND PULP, LLC			
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE			
CHECKED BY	DATE	LIGHTING AND POWER PLAN			
CMM	08/22/2024	DOWNSTREAM FISH BYPASS AREA			
APPROVED BY	DATE	TECHNOLOGY		DRAWING CATEGORY	
CMH	08/22/2024	HYDRO		LAYOUTS	
SCALE	PROJECT NO.	DWG	REV		
AS NOTED	ARL-007	EE-CB-003	0		

KEYED NOTES:

1 THE LOCATION FOR THE SWITCHES FOR LIGHTING CIRCUITS 7 AND 11 IS YET TO BE DETERMINED.



LIGHTING AND POWER PLAN - EXIT FLUME AND FISH LADDER AREAS 4

NOTE: SEE DRAWINGS C-120, C-140, S-120 & S-140

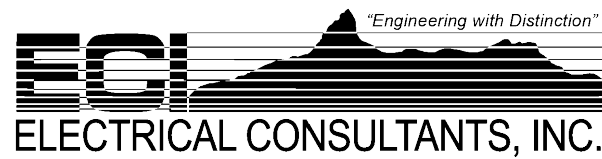
SCALE: 1/8" = 1'-0"



BAR SCALE
1/8" = 1'-0"
CHECK GRAPHIC SCALE BEFORE USING

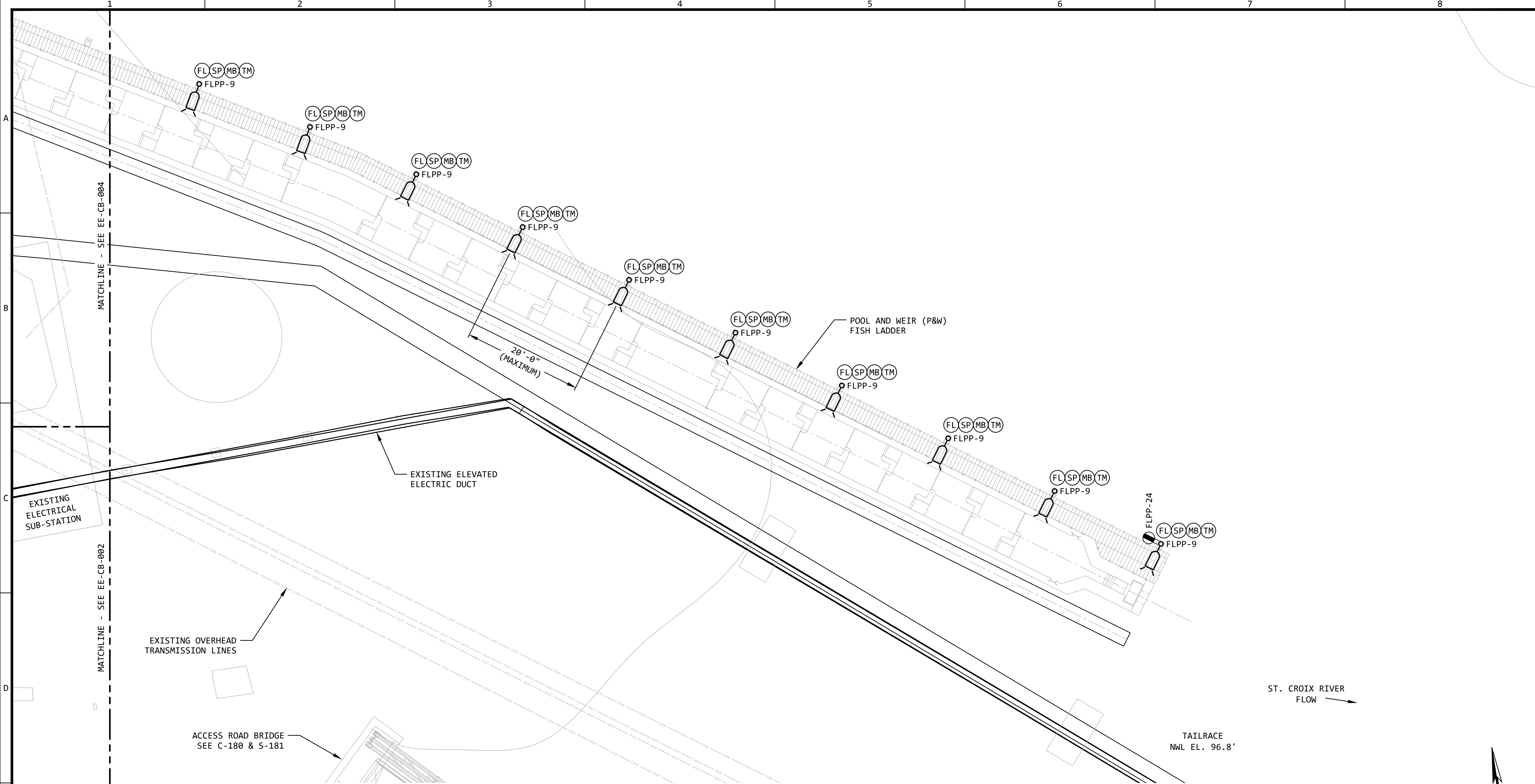


REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	LIGHTING AND POWER PLAN		
CMM	08/22/2024	EXIT FLUME AND FISH LADDER AREAS		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CB-004	0	



LIGHTING AND POWER PLAN - FISH LADDER AREA 5
NOTE: SEE DRAWINGS C-140 & S-140 SCALE: 1/8" = 1'-0" --

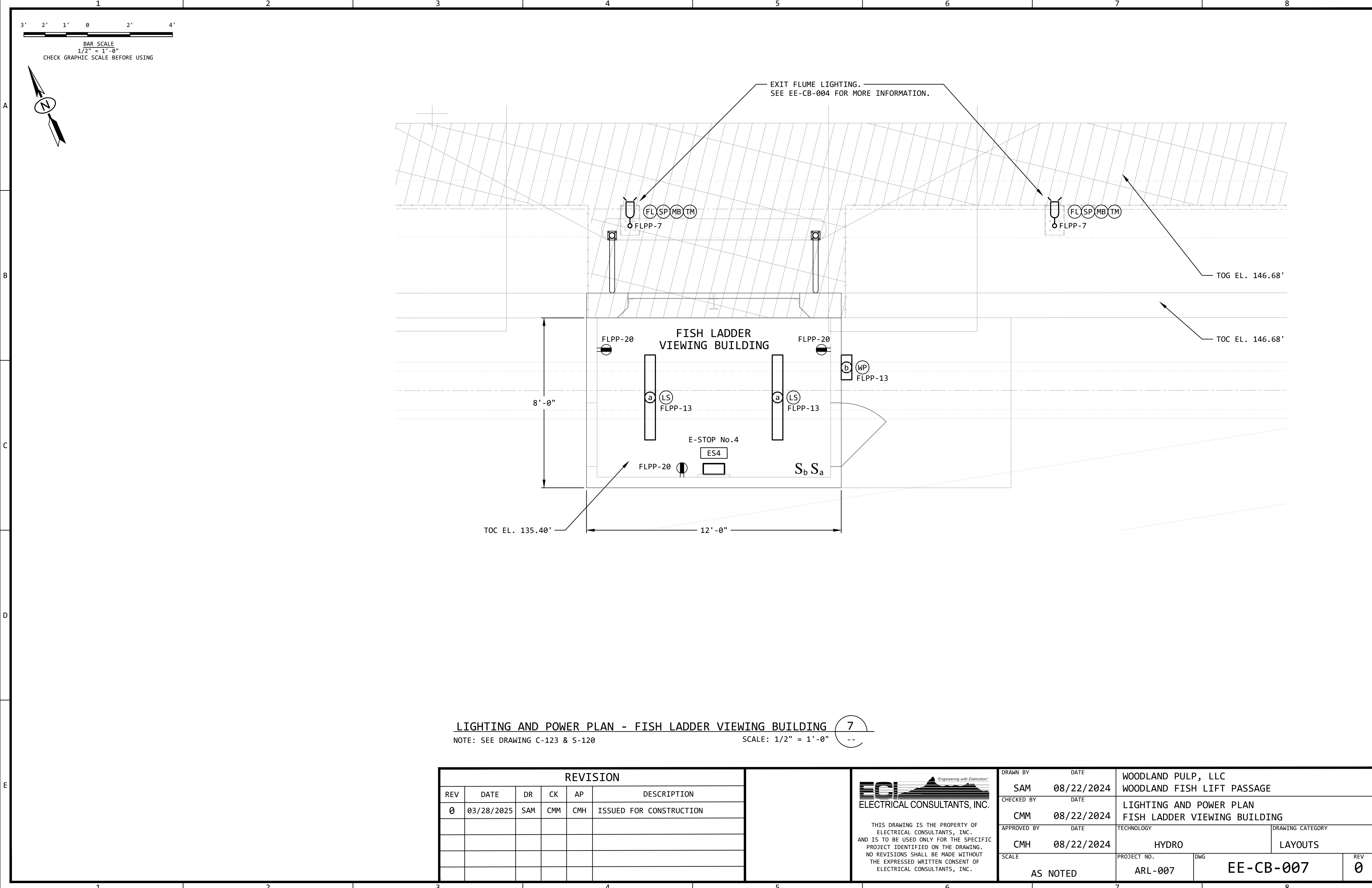
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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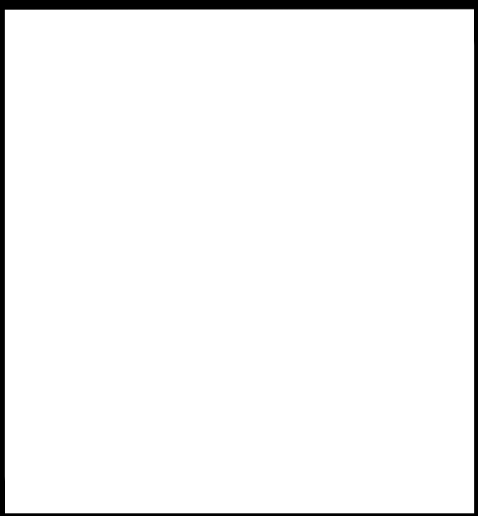
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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	LIGHTING AND POWER PLAN		
CMM	08/22/2024	FISH LADDER AREA (EAST)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CB-005	0	



LIGHTING AND POWER PLAN - FISH LADDER VIEWING BUILDING 7
NOTE: SEE DRAWING C-123 & S-120 SCALE: 1/2" = 1'-0" --

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

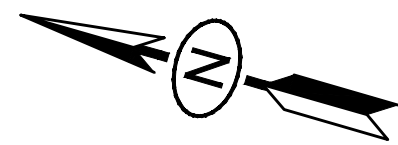
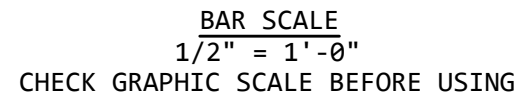




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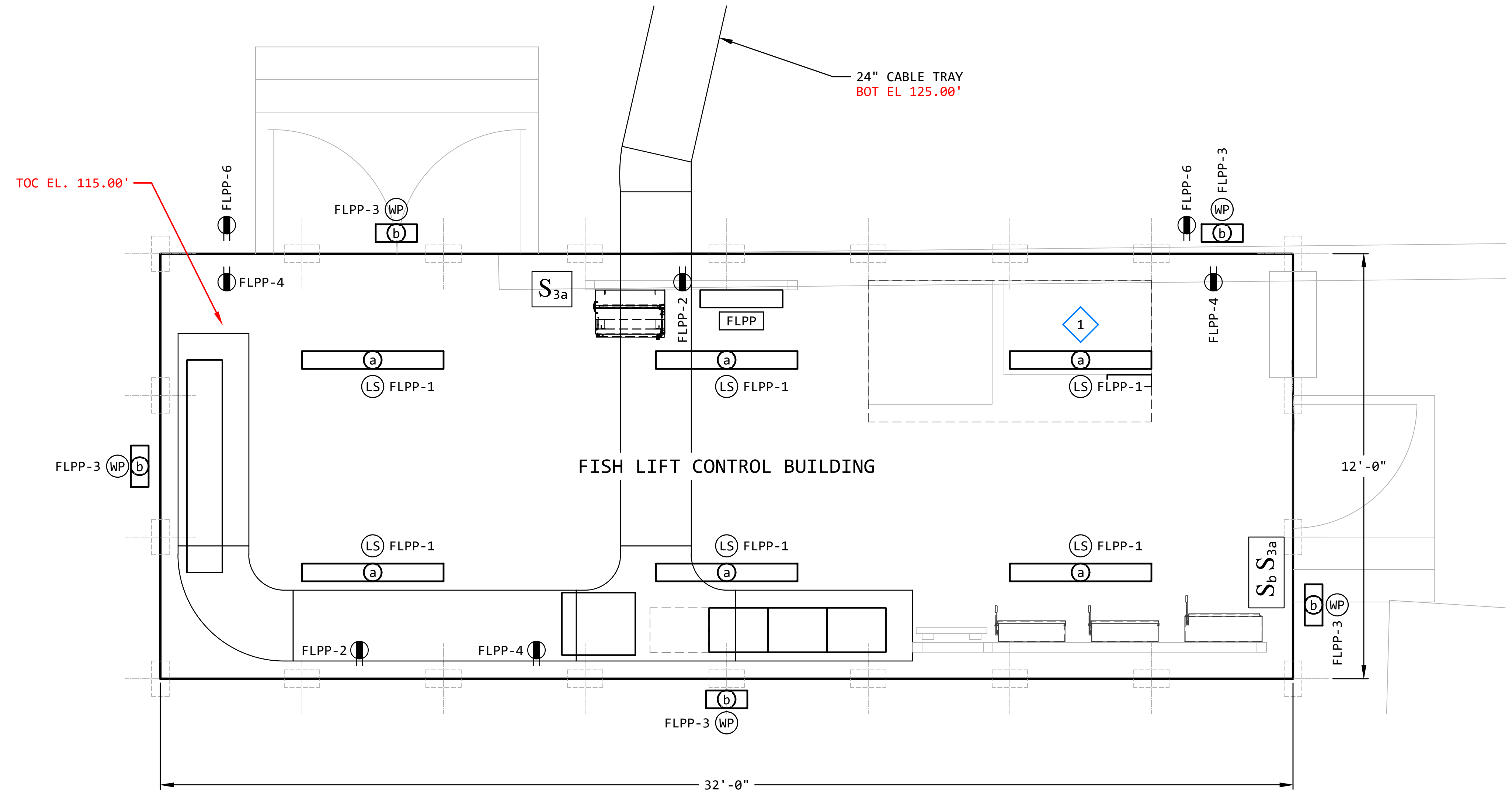
DRAWN BY		DATE		WOODLAND PULP, LLC	
SAM		08/22/2024		WOODLAND FISH LIFT PASSAGE	
CHECKED BY		DATE		LIGHTING AND POWER PLAN	
CMM		08/22/2024		FISH LADDER VIEWING BUILDING	
APPROVED BY		DATE		TECHNOLOGY	DRAWING CATEGORY
CMH		08/22/2024		HYDRO	LAYOUTS
SCALE		PROJECT NO.		DWG	REV
AS NOTED		ARL-007		EE-CB-007	0



EQUIPMENT SCHEDULE

FLPP FISH LIFT POWER PANEL

(SEE EE-CA-008 FOR MORE INFORMATION)



LIGHTING AND POWER PLAN - FISH LIFT CONTROL BUILDING

NOTE: SEE DRAWING S-190

SCALE: $1/2" = 1' - 0"$

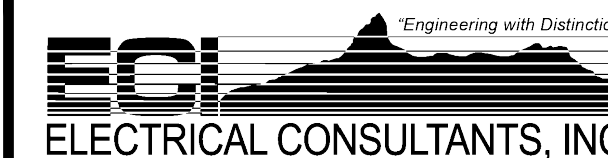
8

(

KEYED NOTES:

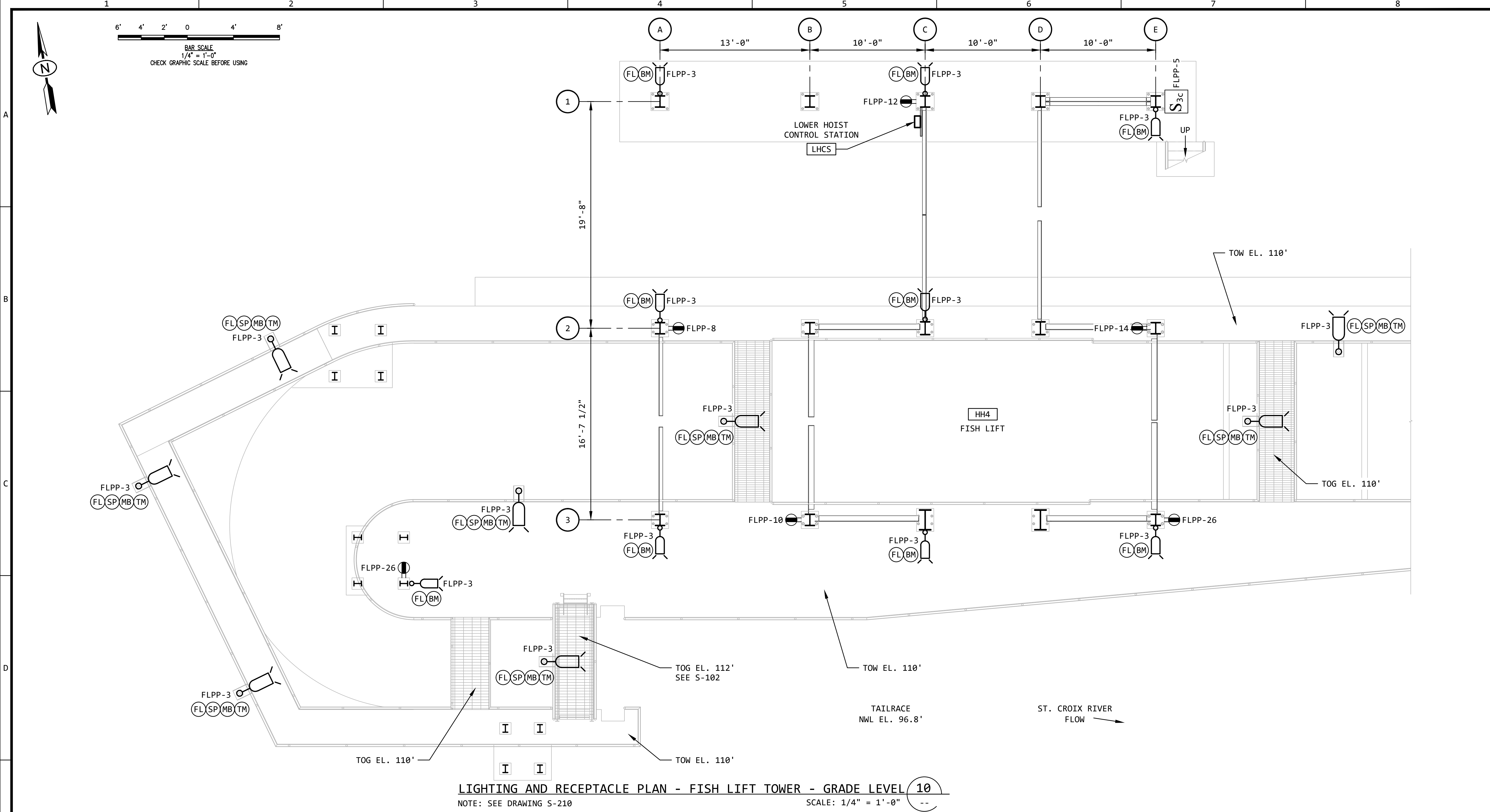
1 FOR THE LIGHTING FIXTURE OVER THE AIR BURST SYSTEM:
THE LIGHTING FIXTURE LOCATION AND MOUNTING HEIGHT MAY BE
ADJUSTED IN THE FIELD TO AVOID PIPING, HANGERS AND
OTHER ARCHITECTURAL APPURTENANCES.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY SAM	DATE 08/22/2024	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY CMM	DATE 08/22/2024	LIGHTING AND POWER PLAN FISH LIFT CONTROL BUILDING		
APPROVED BY CMH	DATE 08/22/2024	TECHNOLOGY HYDRO		DRAWING CATEGORY LAYOUTS
SCALE AS NOTED		PROJECT NO. ARL-007	DWG EE-CB-008	REV 0



LIGHTING AND RECEPTACLE PLAN - FISH LIFT TOWER - GRADE LEVEL 10
NOTE: SEE DRAWING S-210
SCALE: 1/4" = 1'-0" --

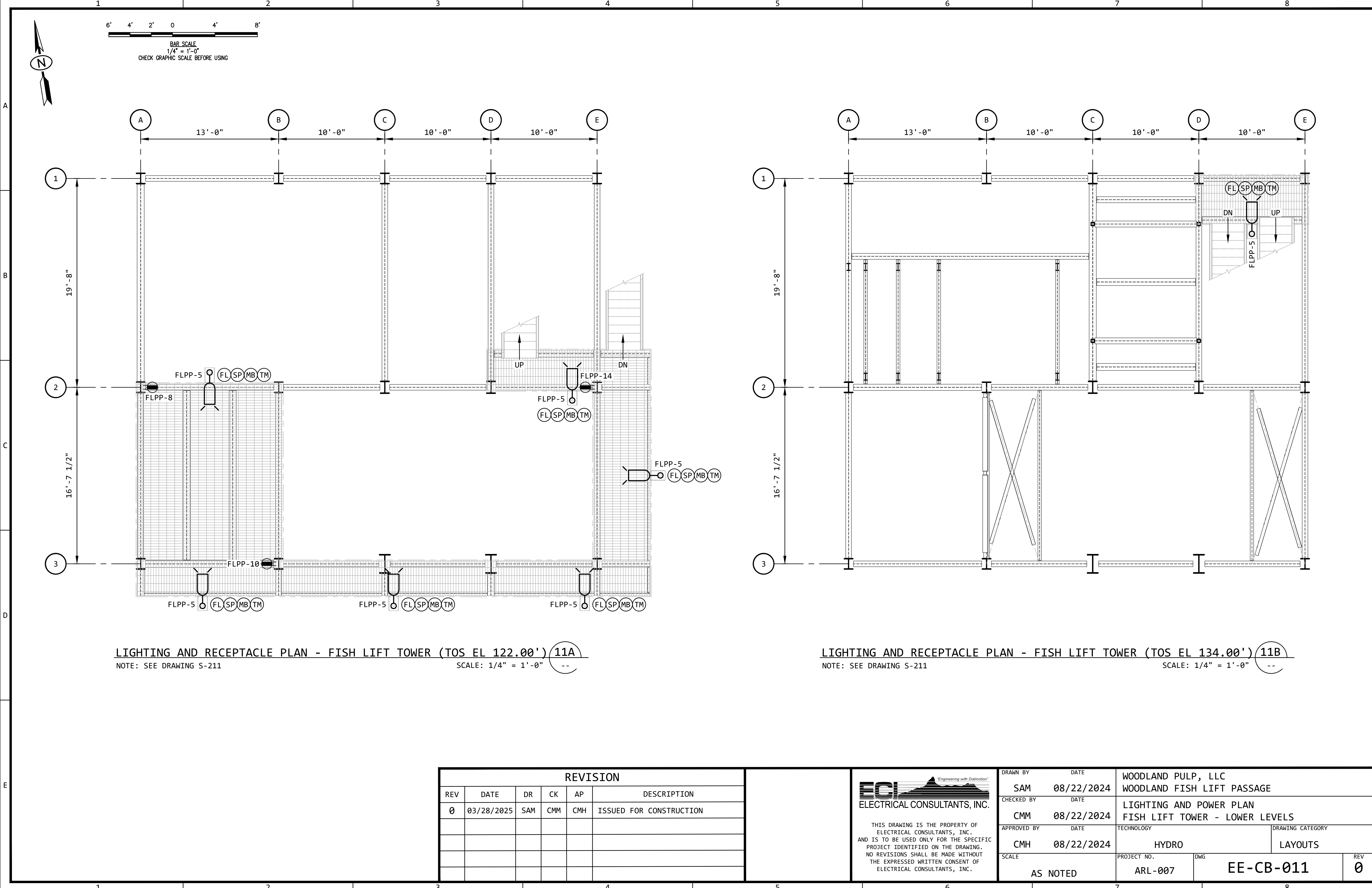
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	LIGHTING AND POWER PLAN		
CMM	08/22/2024	FISH LIFT TOWER - GRADE LEVEL		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG		REV
AS NOTED	ARL-007	EE-CB-010		0



LIGHTING AND RECEPTACLE PLAN - FISH LIFT TOWER (TOS EL 122.00') (11A)
NOTE: SEE DRAWING S-211
SCALE: 1/4" = 1'-0" --

LIGHTING AND RECEPTACLE PLAN - FISH LIFT TOWER (TOS EL 134.00') (11B)
NOTE: SEE DRAWING S-211
SCALE: 1/4" = 1'-0" --

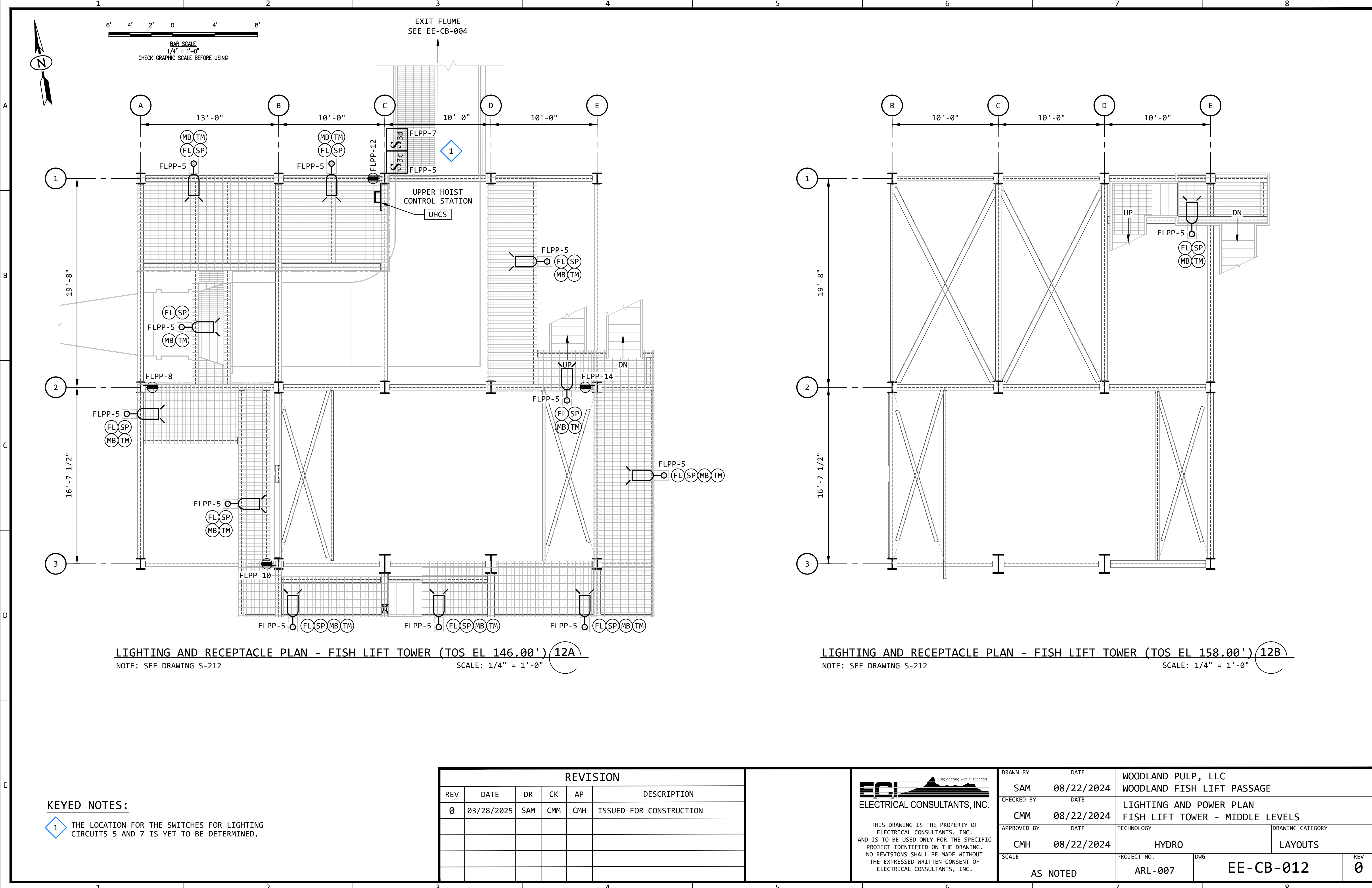
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	LIGHTING AND POWER PLAN FISH LIFT TOWER - LOWER LEVELS		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CB-011	0	



LIGHTING AND RECEPTACLE PLAN - FISH LIFT TOWER (TOS EL 146.00') (12A)
NOTE: SEE DRAWING S-212 SCALE: 1/4" = 1'-0" --

LIGHTING AND RECEPTACLE PLAN - FISH LIFT TOWER (TOS EL 158.00') (12B)
NOTE: SEE DRAWING S-212 SCALE: 1/4" = 1'-0" --

KEYED NOTES:
1 THE LOCATION FOR THE SWITCHES FOR LIGHTING CIRCUITS 5 AND 7 IS YET TO BE DETERMINED.

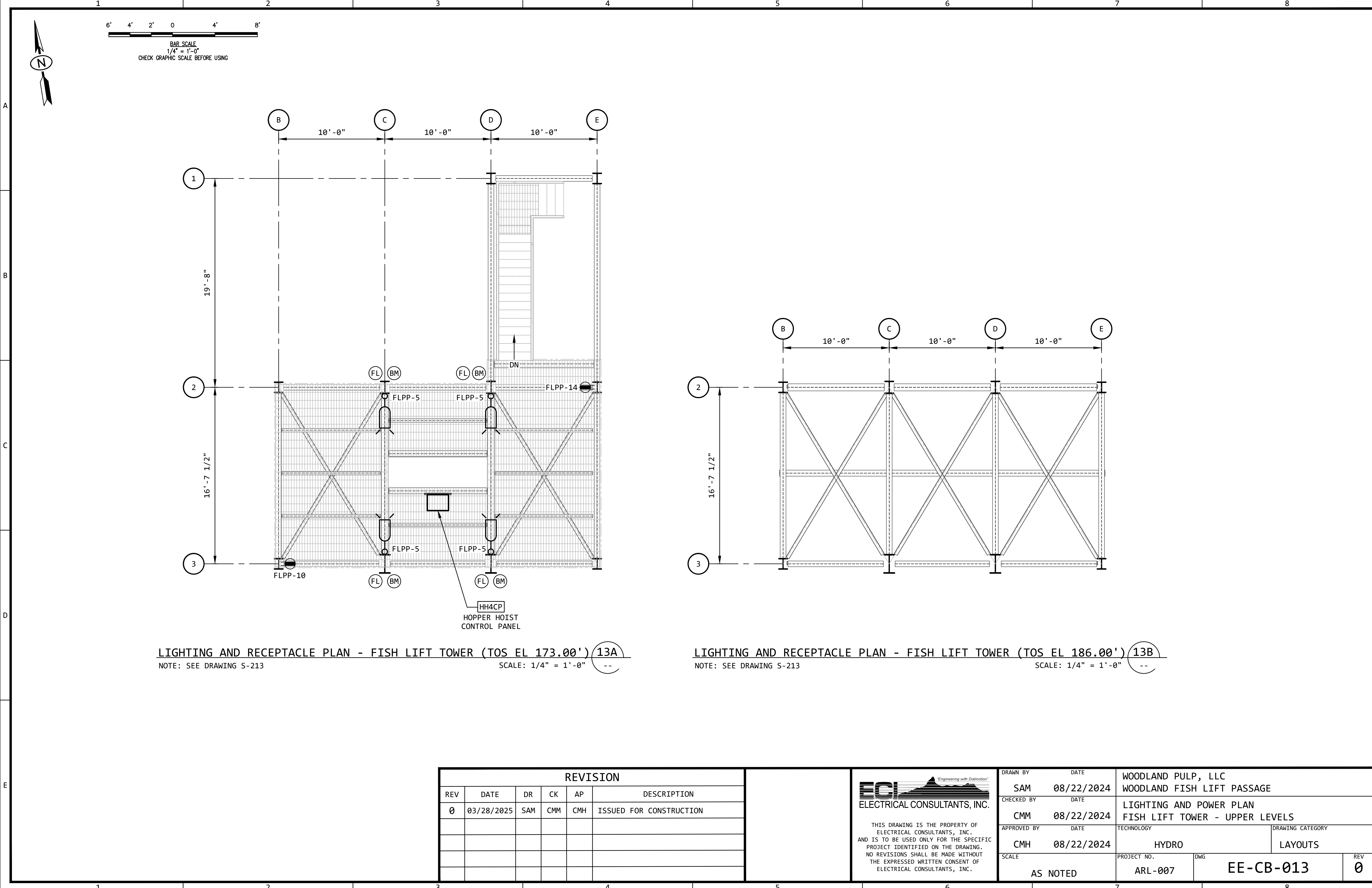
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	LIGHTING AND POWER PLAN FISH LIFT TOWER - MIDDLE LEVELS		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CB-012	0	



LIGHTING AND RECEPTACLE PLAN - FISH LIFT TOWER (TOS EL 173.00') 13A
NOTE: SEE DRAWING S-213
SCALE: 1/4" = 1'-0"

LIGHTING AND RECEPTACLE PLAN - FISH LIFT TOWER (TOS EL 186.00') 13B
NOTE: SEE DRAWING S-213
SCALE: 1/4" = 1'-0"

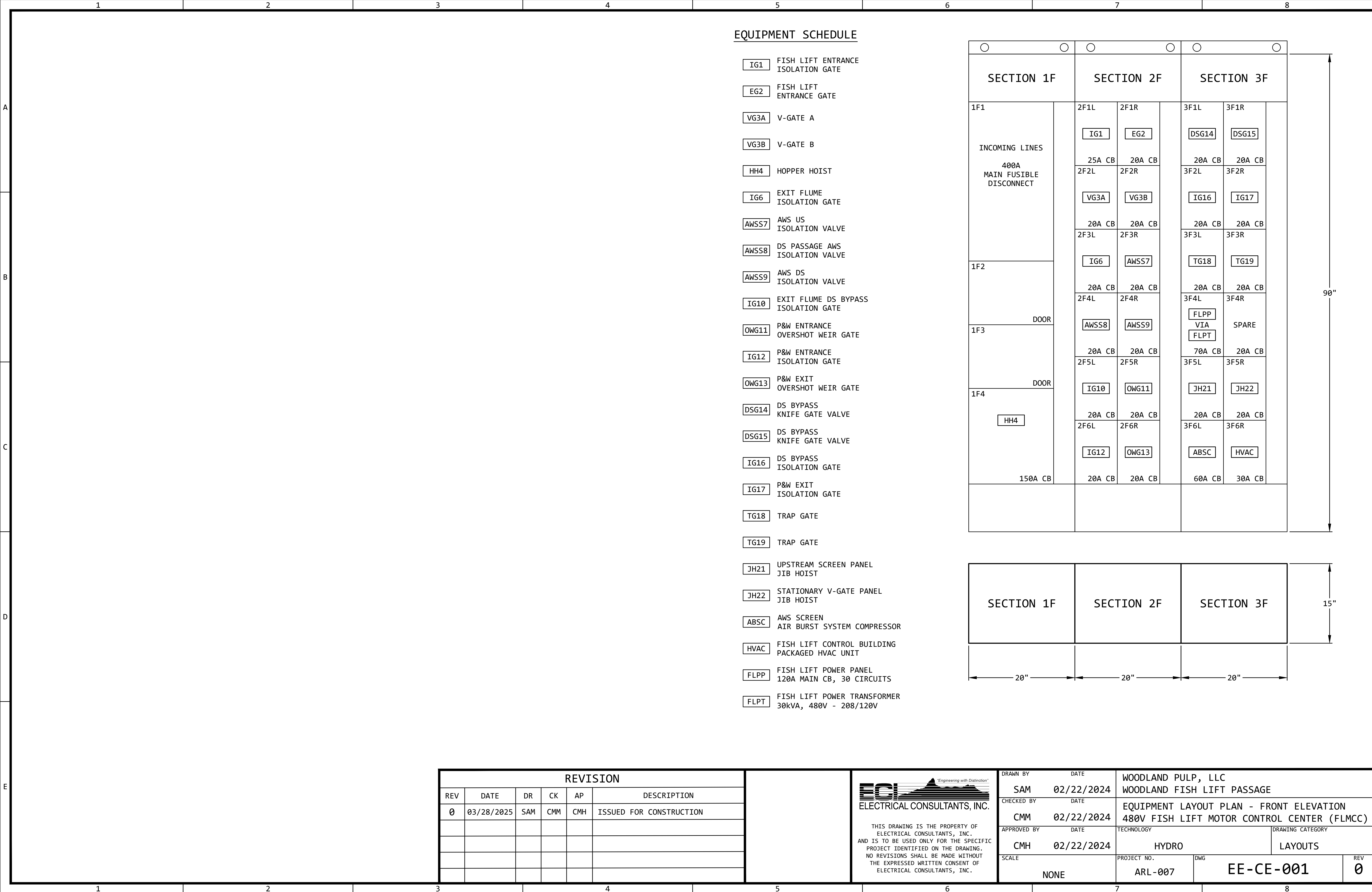
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

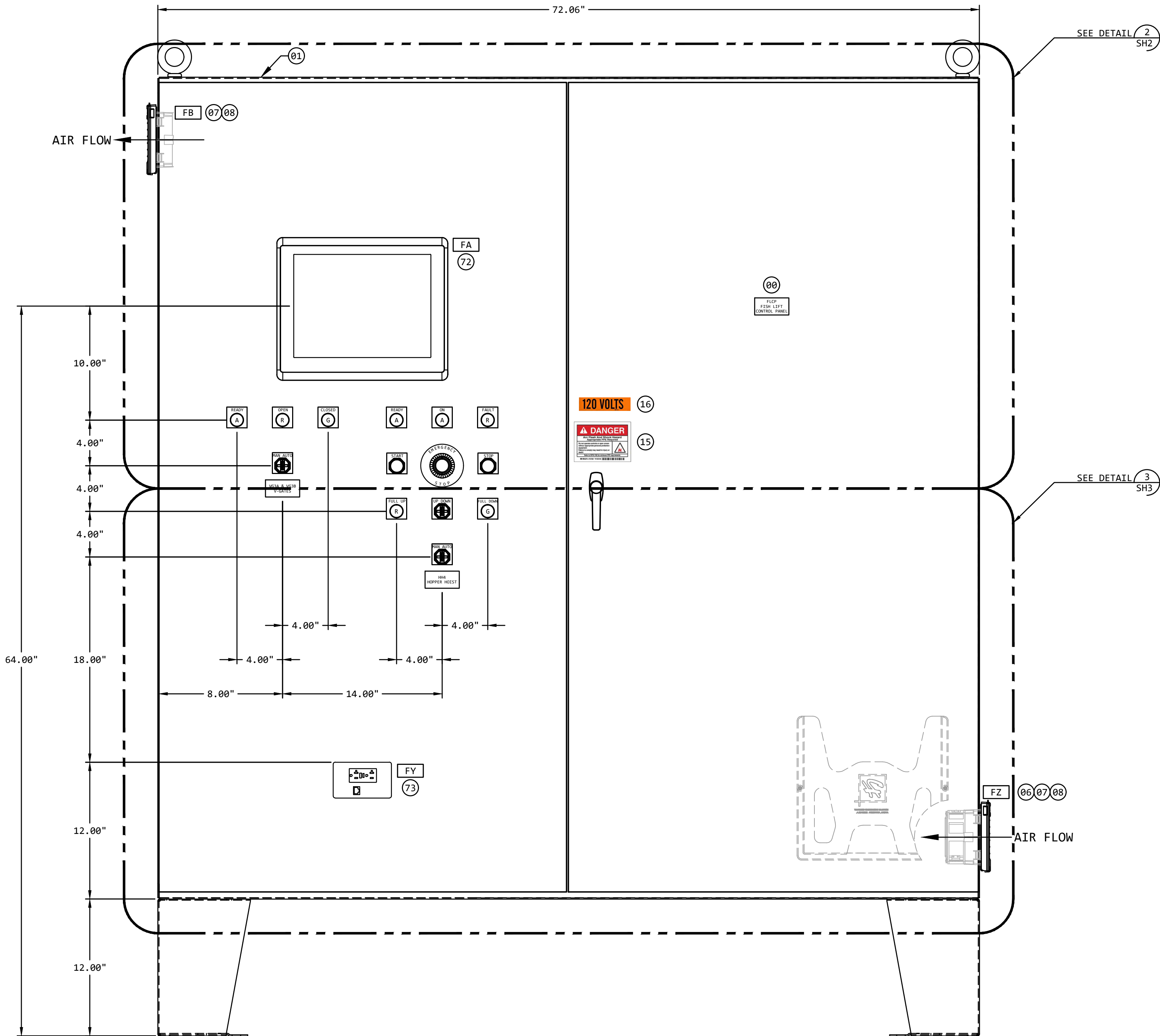


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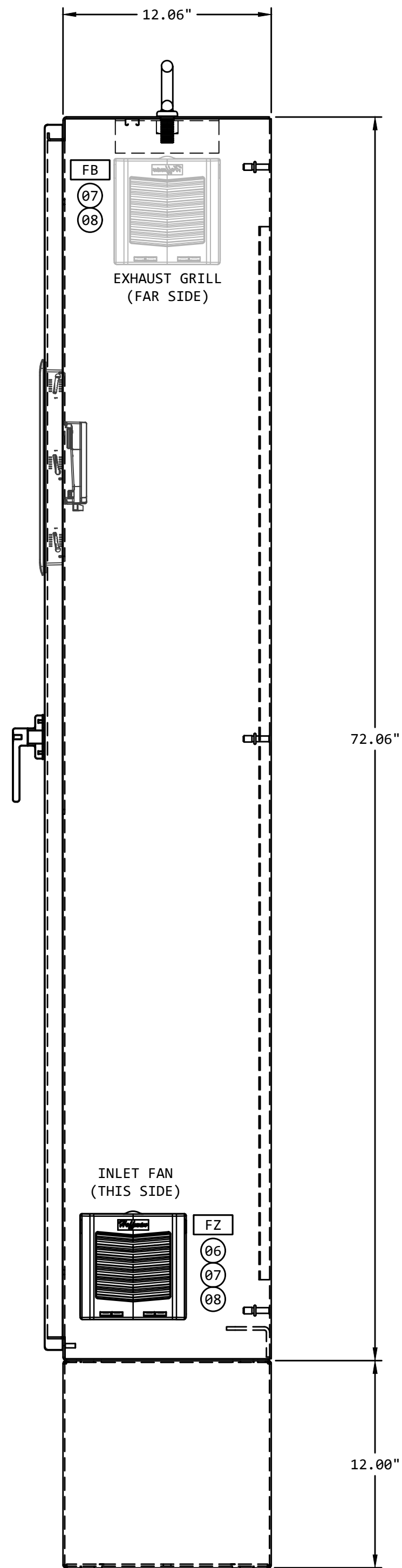
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DRAWN BY		DATE		WOODLAND PULP, LLC	
SAM		08/22/2024		WOODLAND FISH LIFT PASSAGE	
CHECKED BY		DATE		LIGHTING AND POWER PLAN	
CMM		08/22/2024		FISH LIFT TOWER - UPPER LEVELS	
APPROVED BY		DATE		TECHNOLOGY	DRAWING CATEGORY
CMH		08/22/2024		HYDRO	LAYOUTS
SCALE		PROJECT NO.		DWG	REV
AS NOTED		ARL-007		EE-CB-013	0





FLCP FRONT ELEVATION DETAIL 1
NO SCALE



FLCP
(FISH LIFT CONTROL PANEL)
SIDE ELEVATION

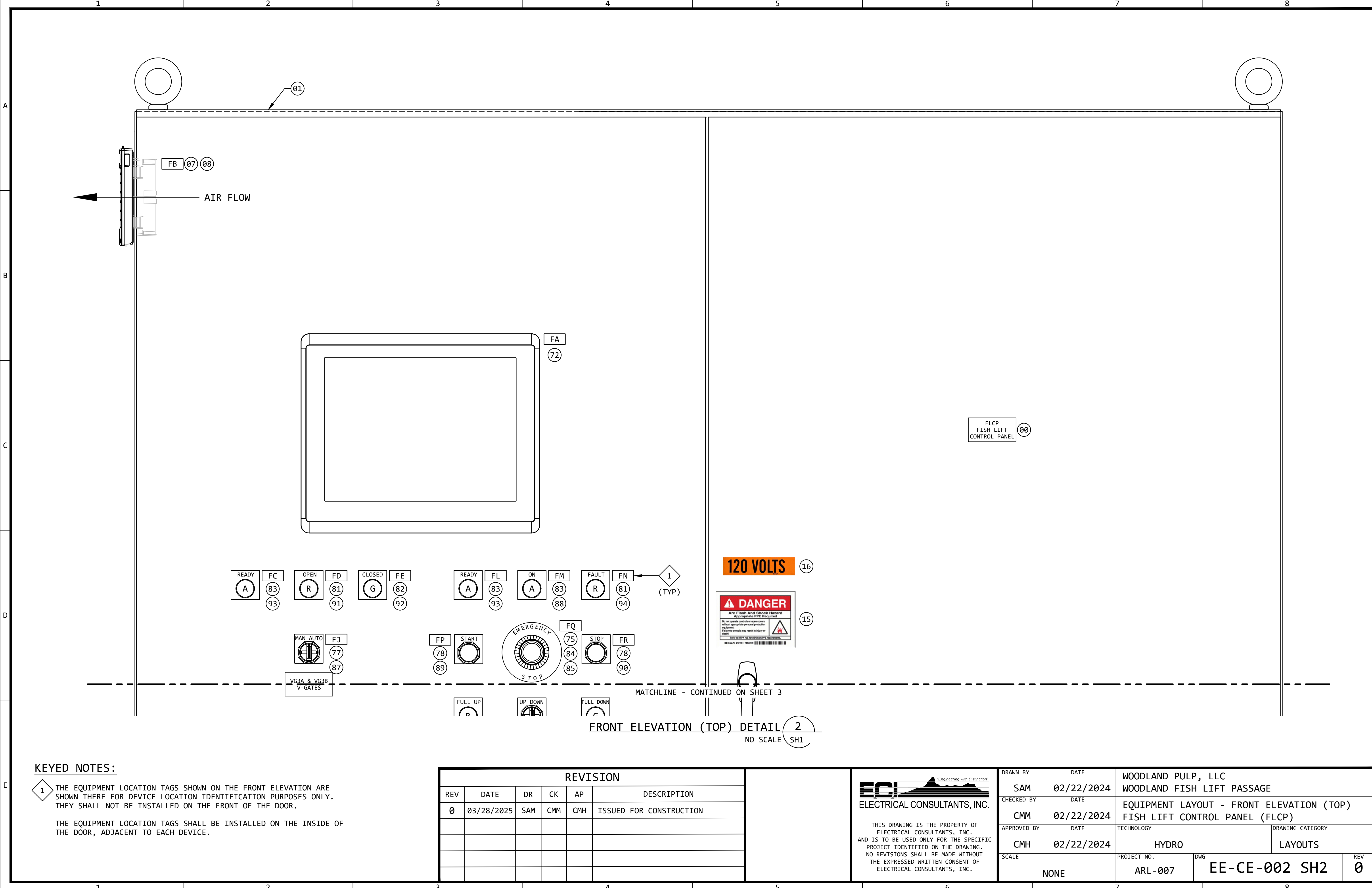
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC	
SAM	02/22/2024	WOODLAND FISH LIFT PASSAGE	
CHECKED BY	DATE	EQUIPMENT LAYOUT - FRONT ELEVATION	
CMM	02/22/2024	FISH LIFT CONTROL PANEL (FLCP)	
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY
CMH	02/22/2024	HYDRO	LAYOUTS
SCALE	PROJECT NO.	DWG	REV
NONE	ARL-007	EE-CE-002 SH1	0



KEYED NOTES:

- 1 THE EQUIPMENT LOCATION TAGS SHOWN ON THE FRONT ELEVATION ARE SHOWN THERE FOR DEVICE LOCATION IDENTIFICATION PURPOSES ONLY. THEY SHALL NOT BE INSTALLED ON THE FRONT OF THE DOOR.
- THE EQUIPMENT LOCATION TAGS SHALL BE INSTALLED ON THE INSIDE OF THE DOOR, ADJACENT TO EACH DEVICE.

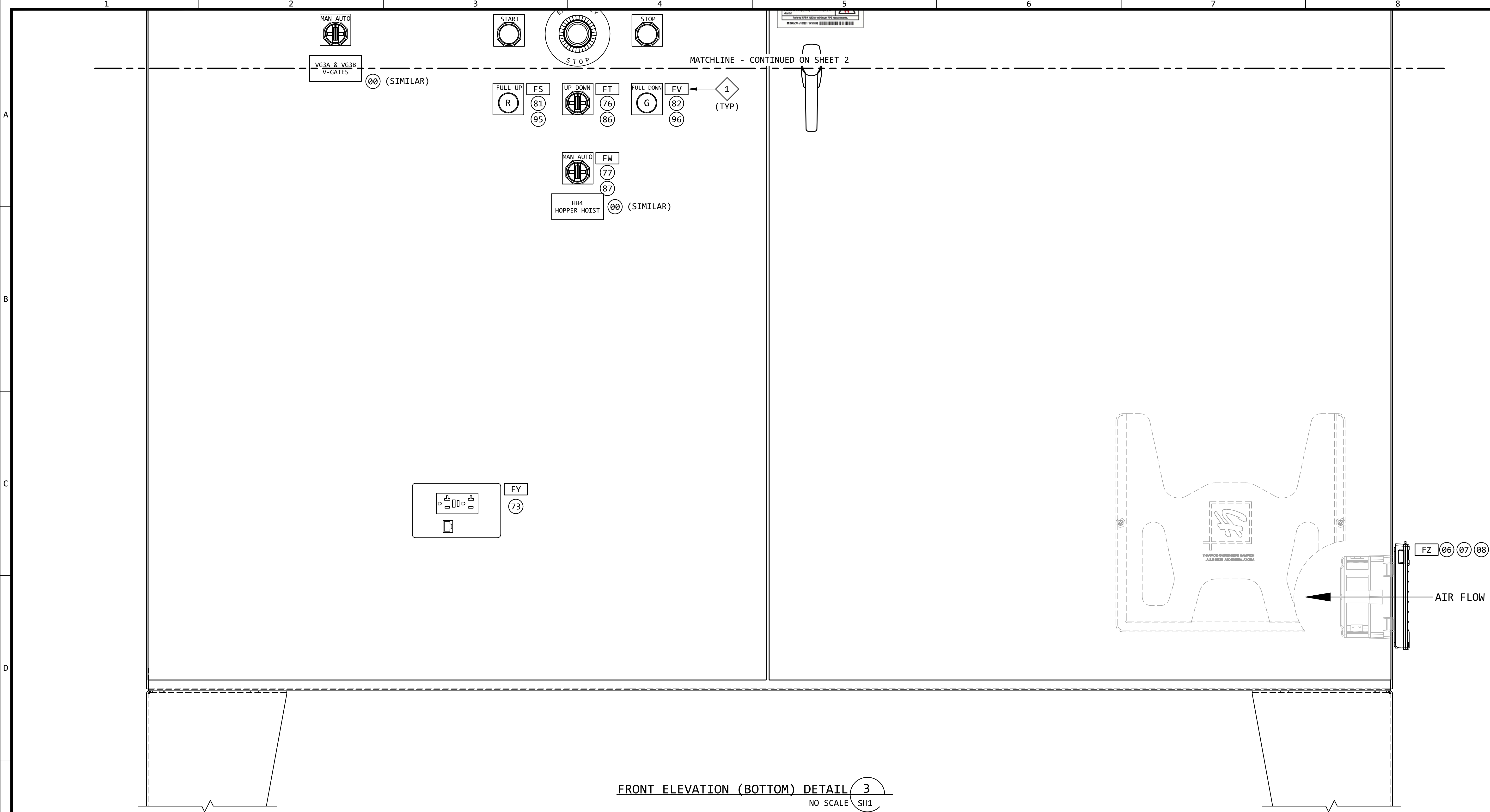
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	EQUIPMENT LAYOUT - FRONT ELEVATION (TOP) FISH LIFT CONTROL PANEL (FLCP)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-CE-002 SH2	0	



FRONT ELEVATION (BOTTOM) DETAIL 3
NO SCALE SH1

KEYED NOTES:

- 1 THE EQUIPMENT LOCATION TAGS SHOWN ON THE FRONT ELEVATION ARE SHOWN THERE FOR DEVICE LOCATION IDENTIFICATION PURPOSES ONLY. THEY SHALL NOT BE INSTALLED ON THE FRONT OF THE DOOR.
- THE EQUIPMENT LOCATION TAGS SHALL BE INSTALLED ON THE INSIDE OF THE DOOR, ADJACENT TO EACH DEVICE.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

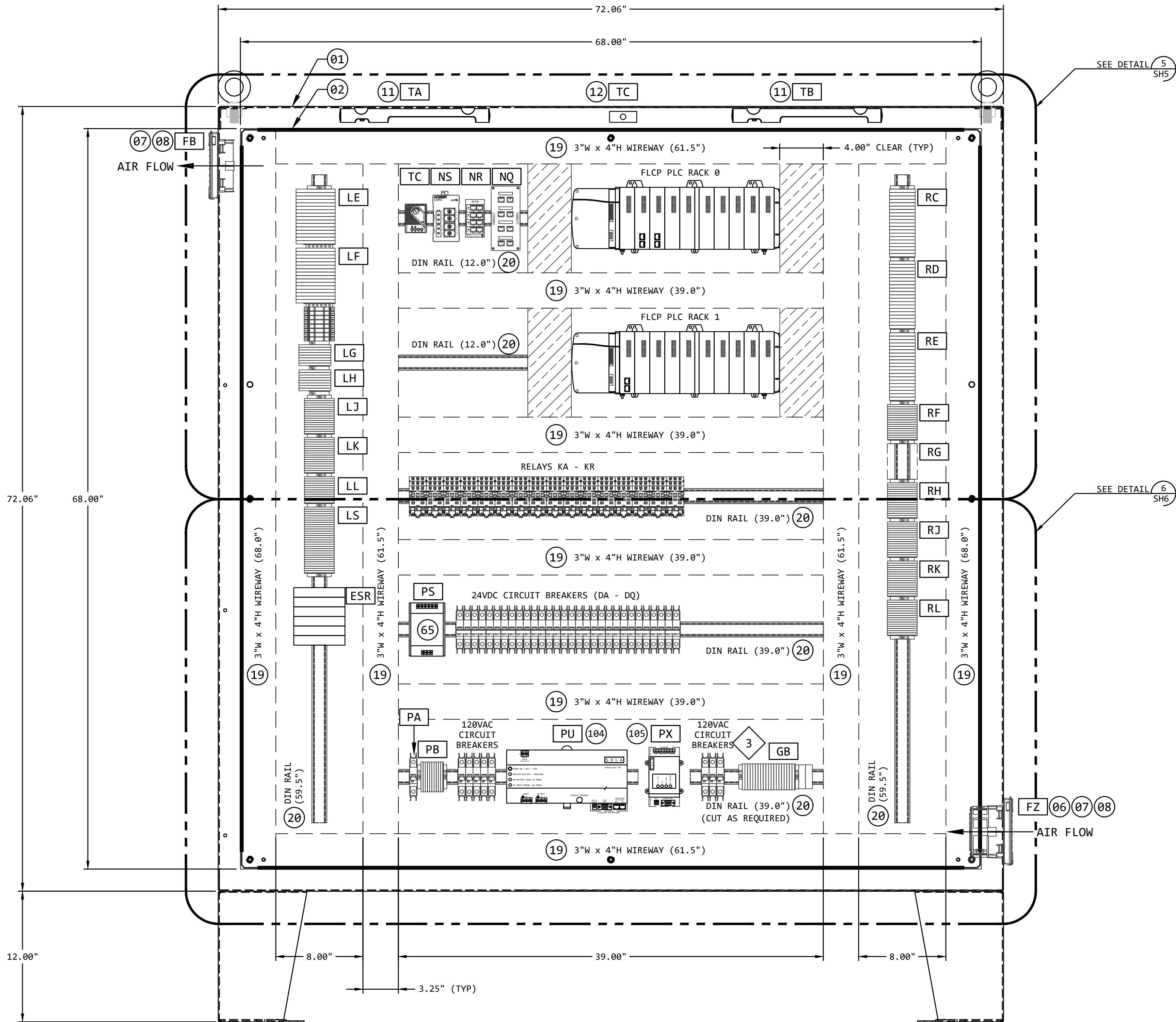
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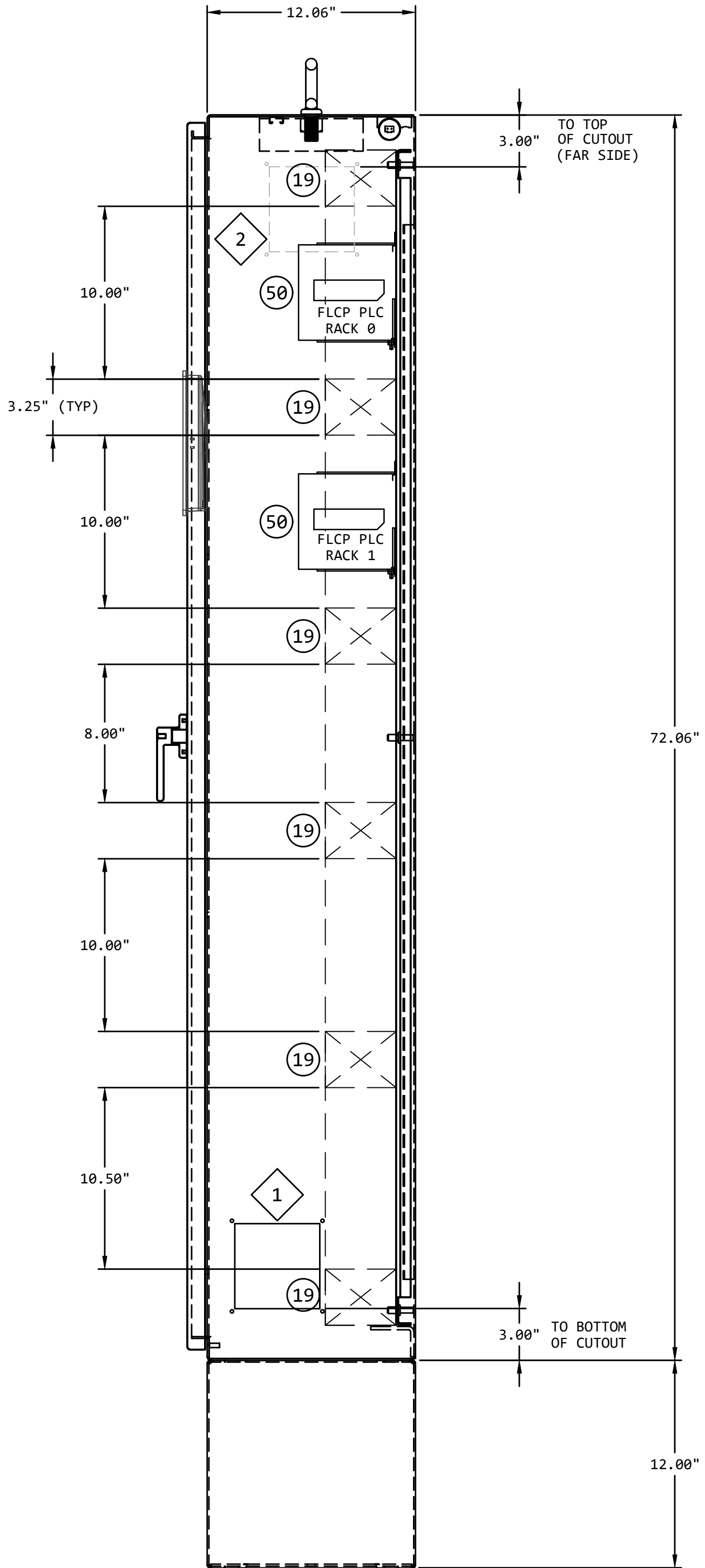
DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	EQUIPMENT LAYOUT - FRONT ELEVATION (BOTTOM) FISH LIFT CONTROL PANEL (FLCP)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-CE-002 SH3	0	

KEYED NOTES:

- 1 INLET FAN CUTOUT AND MOUNTING HOLES.
(THIS SIDE)
VERIFY ACTUAL DIMENSIONS FROM VENDOR DOCUMENTATION
PRIOR TO ANY CUTTING OR DRILLING. IN ADDITION,
VERIFY CLEARANCE WITH ALL EQUIPMENT AND DEVICES
LOCATED INSIDE THE PANEL (ie: WIREWAY)
- 2 EXHAUST GRILL CUTOUT AND MOUNTING HOLES.
(FAR SIDE)
VERIFY ACTUAL DIMENSIONS FROM VENDOR DOCUMENTATION
PRIOR TO ANY CUTTING OR DRILLING.
- 3 TIE ALL PANEL AND BACK PANEL GROUNDS TO THE GROUND
BUS (TERMINAL BLOCK GB).



FLCP INTERIOR ELEVATION DETAIL 4
NO SCALE



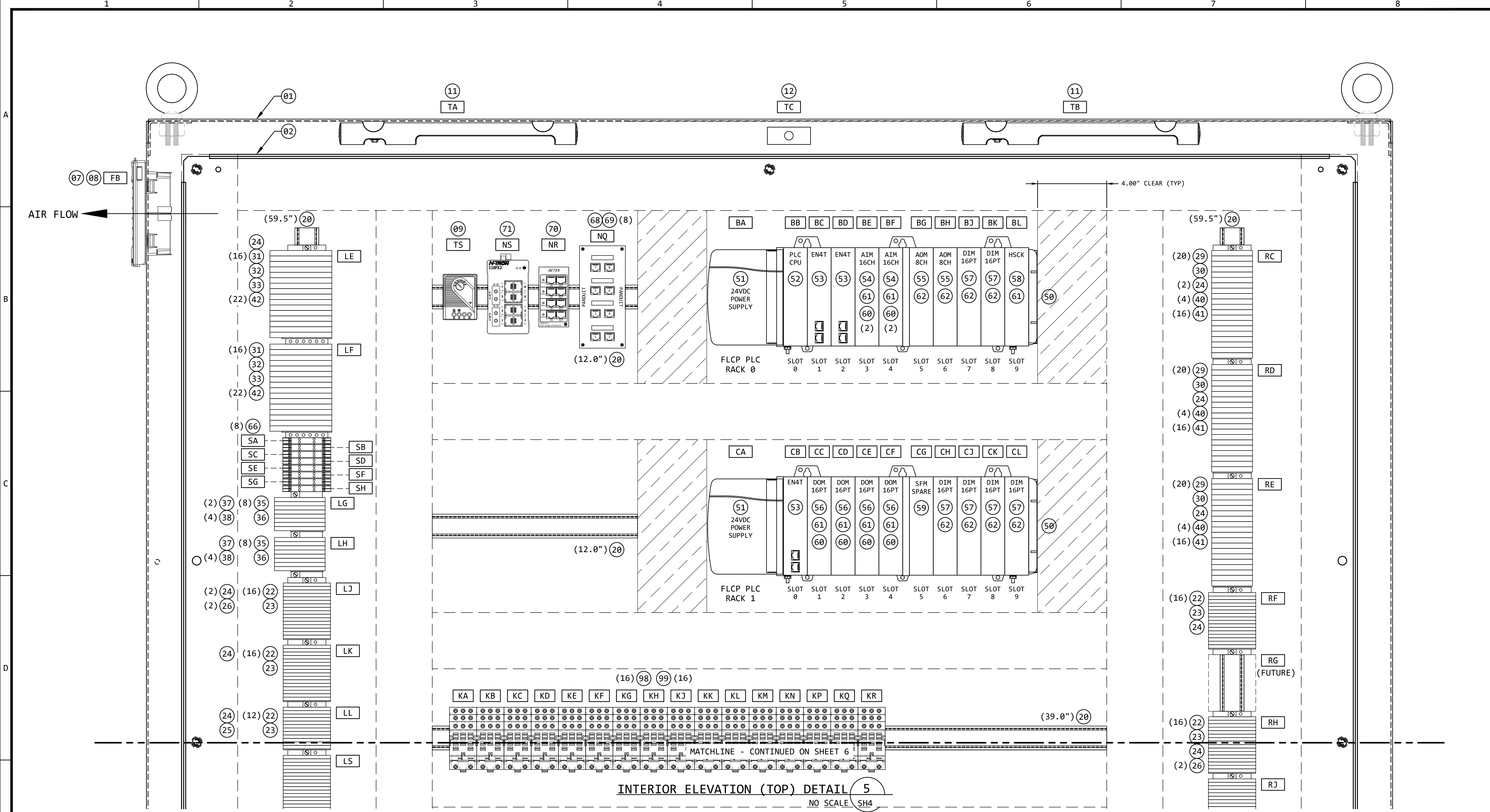
FLCP
FISH LIFT CONTROL PANEL
SIDE ELEVATION

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	02/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	EQUIPMENT LAYOUT - INTERIOR ELEVATION		
CMM	02/22/2024	FISH LIFT CONTROL PANEL (FLCP)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-CE-002 SH4	0	



INTERIOR ELEVATION (TOP) DETAIL 5
NO SCALE SH4

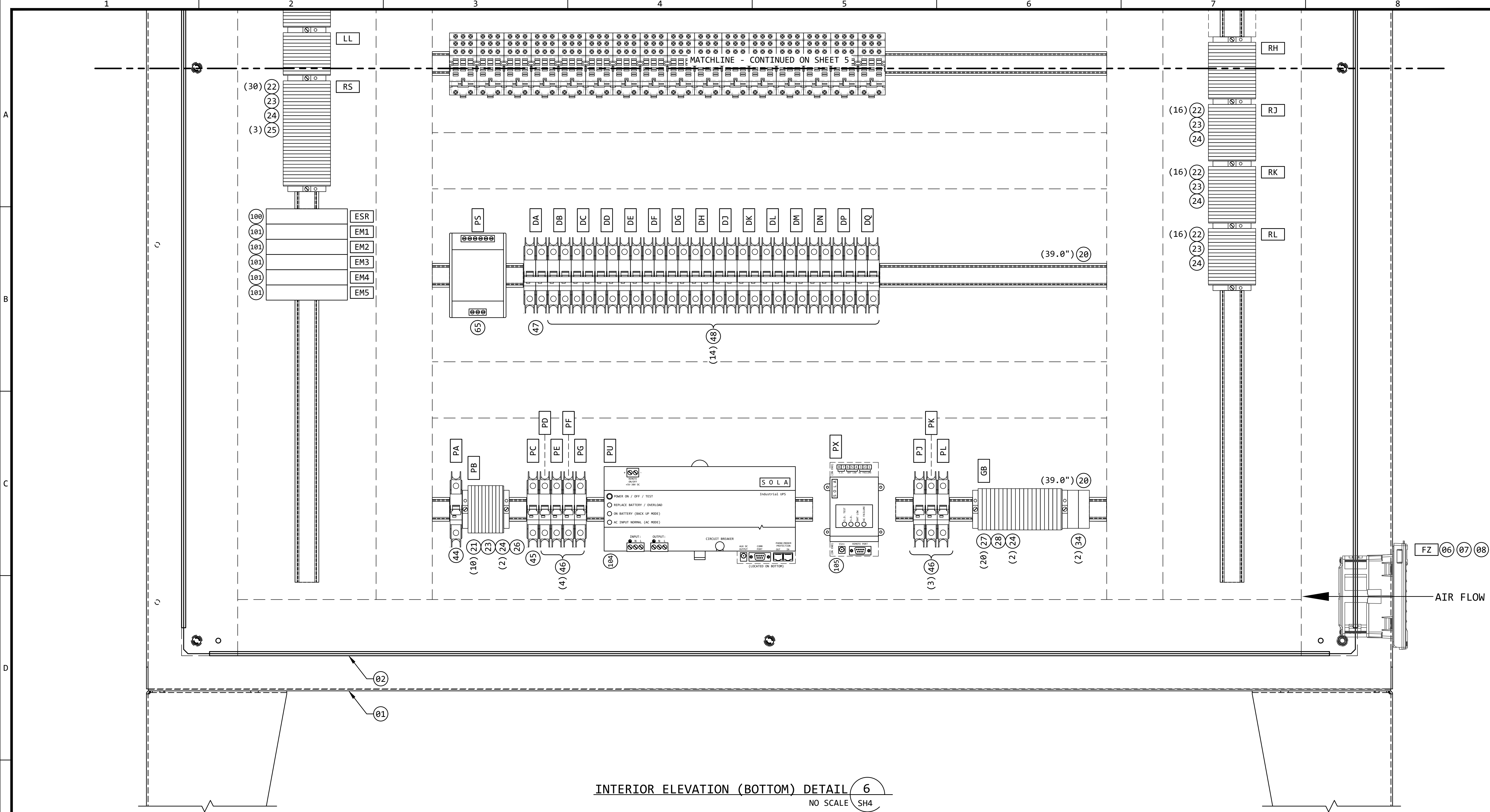
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	EQUIPMENT LAYOUT - INTERIOR ELEVATION (TOP) FISH LIFT CONTROL PANEL (FLCP)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-CE-002 SH5	0	



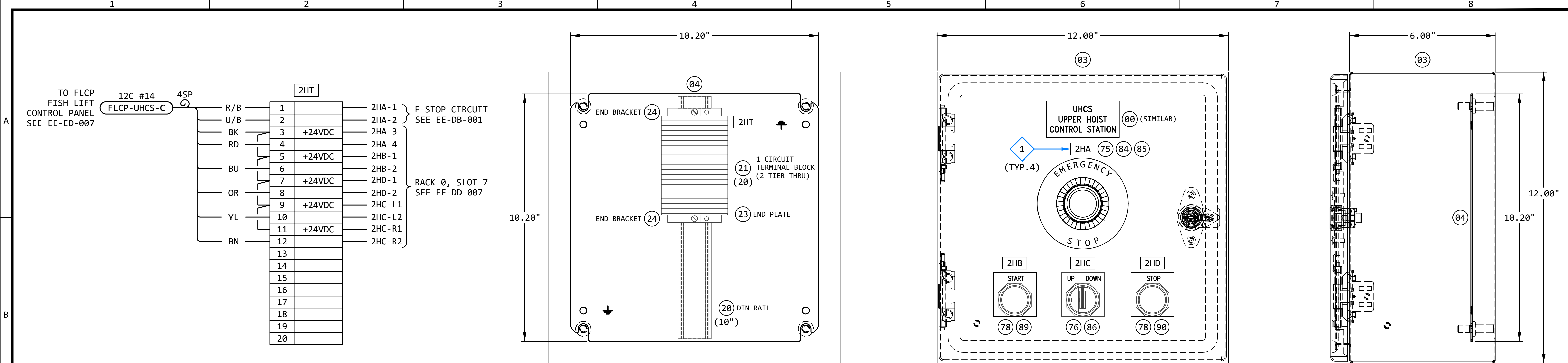
INTERIOR ELEVATION (BOTTOM) DETAIL 6
NO SCALE SH4

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

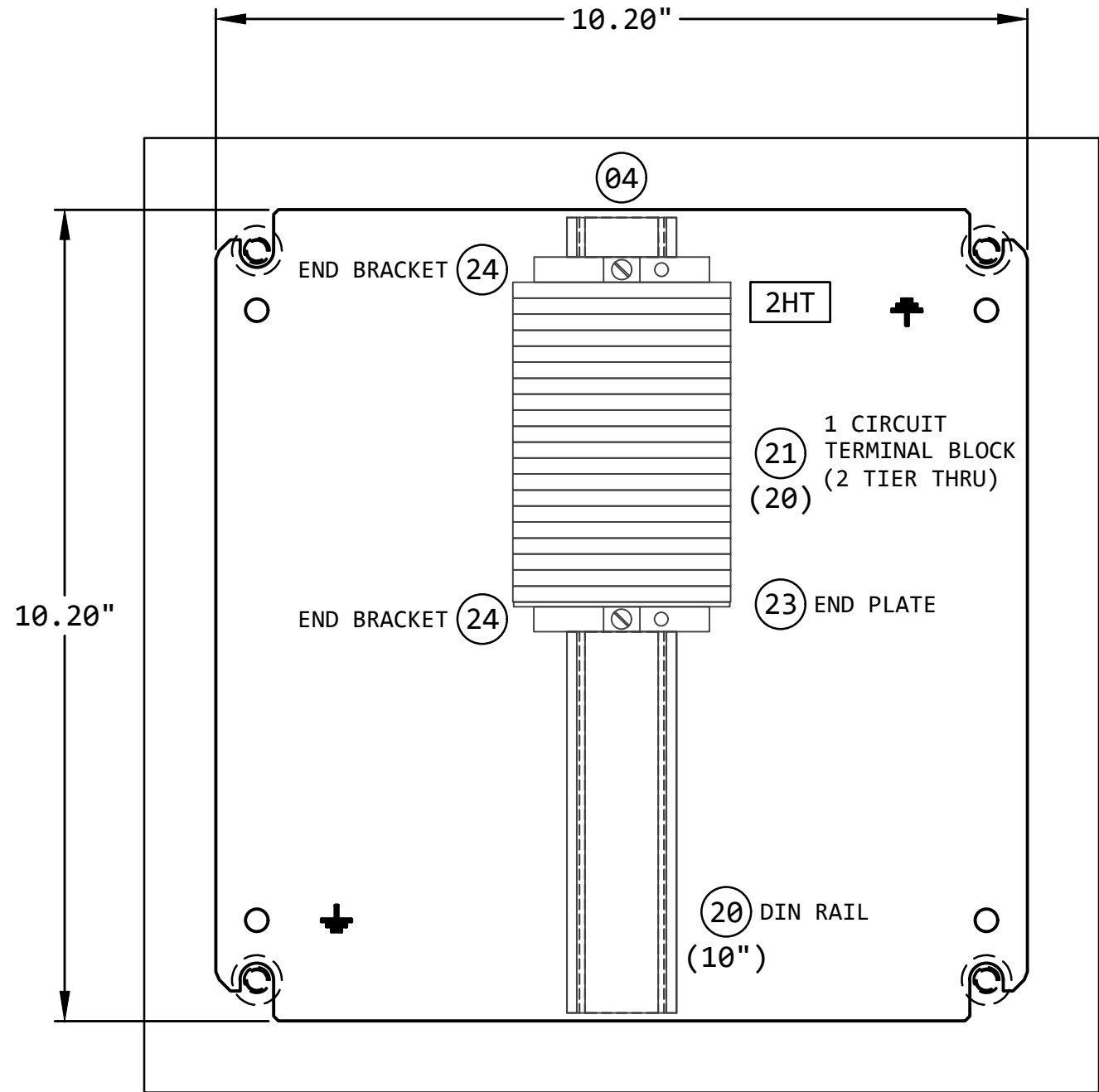
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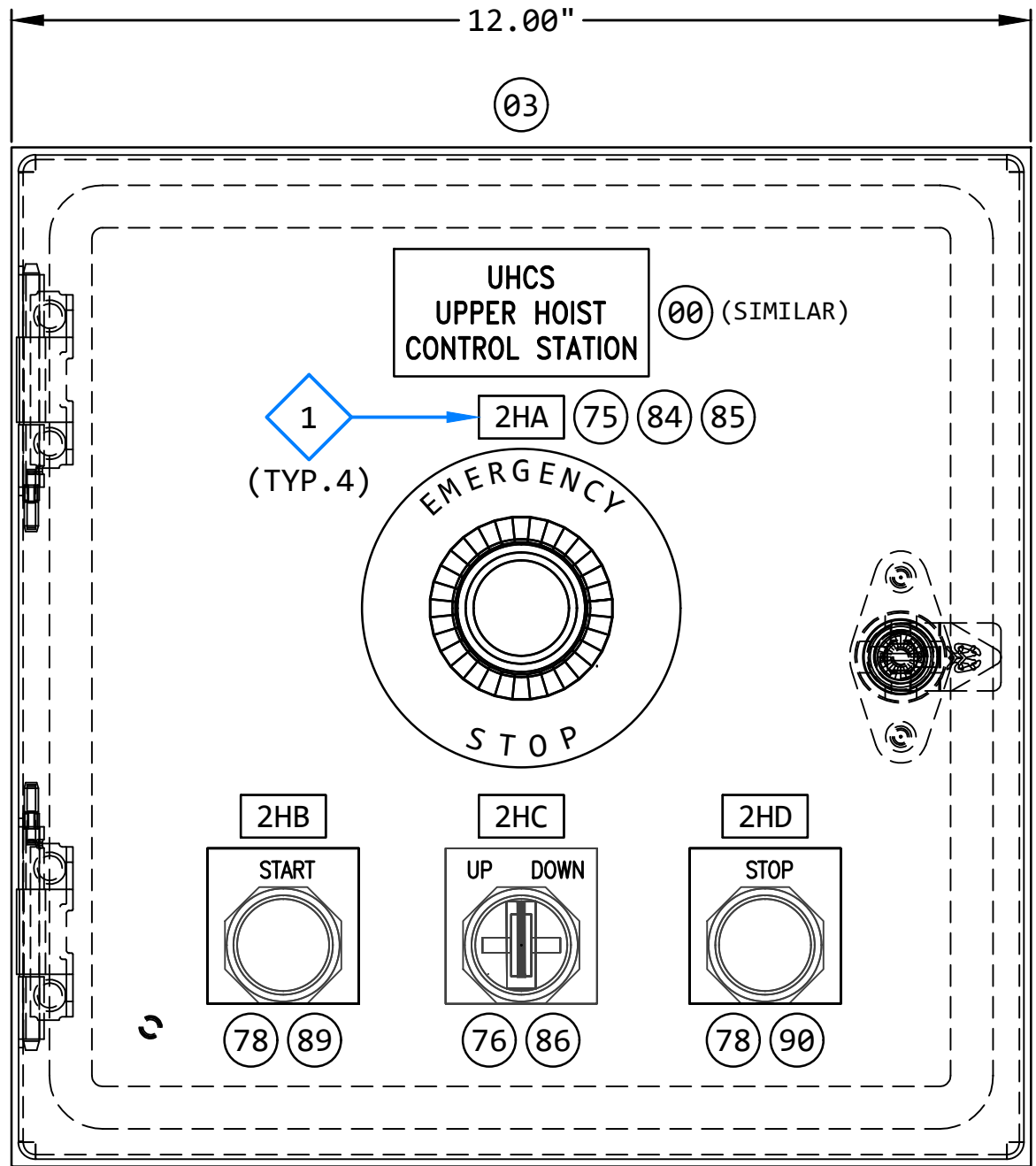
DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	02/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	EQUIPMENT LAYOUT - INTERIOR ELEV. (BOTTOM)		
CMM	02/22/2024	FISH LIFT CONTROL PANEL (FLCP)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-CE-002 SH6	0	



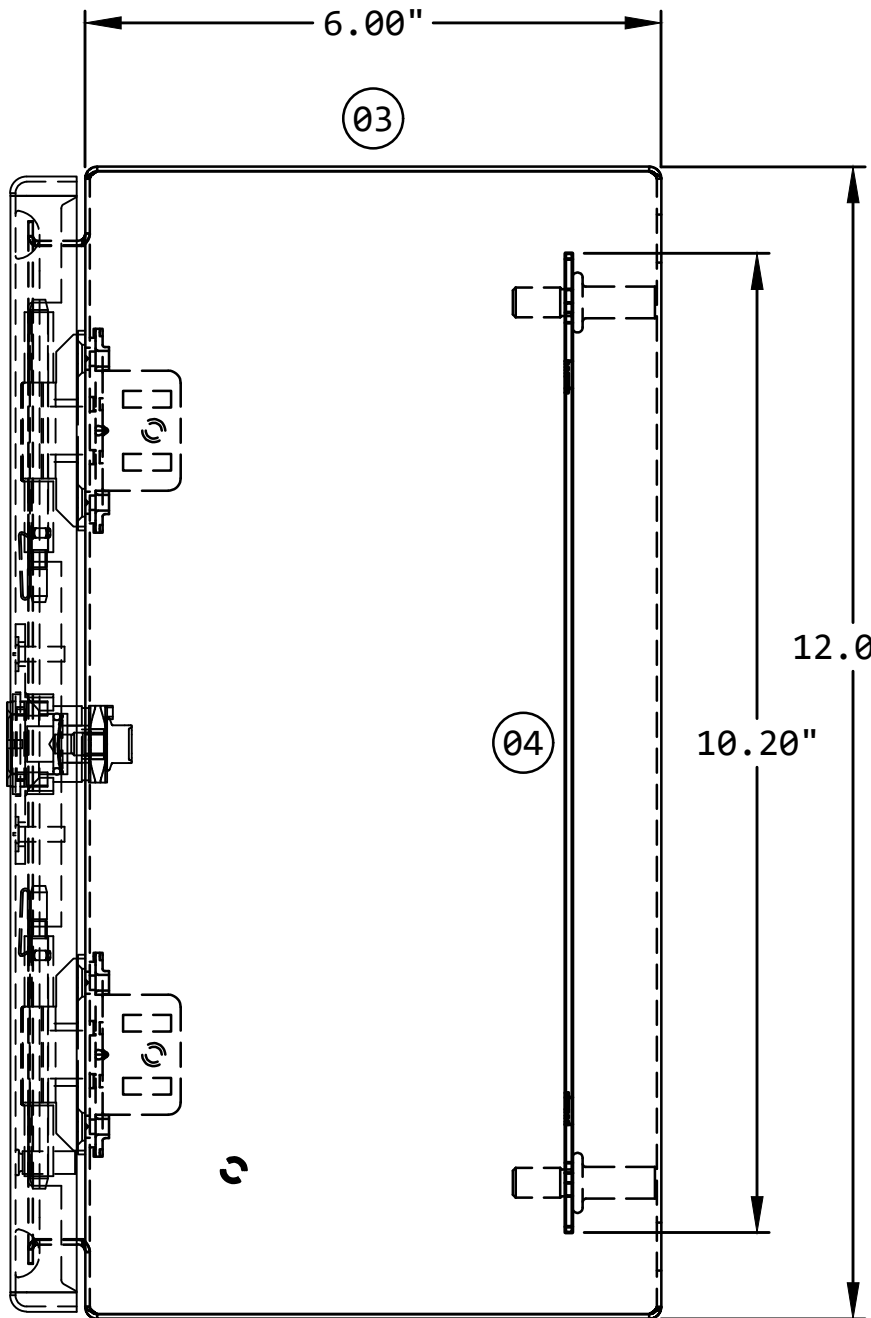
INTERCONNECTION DIAGRAM



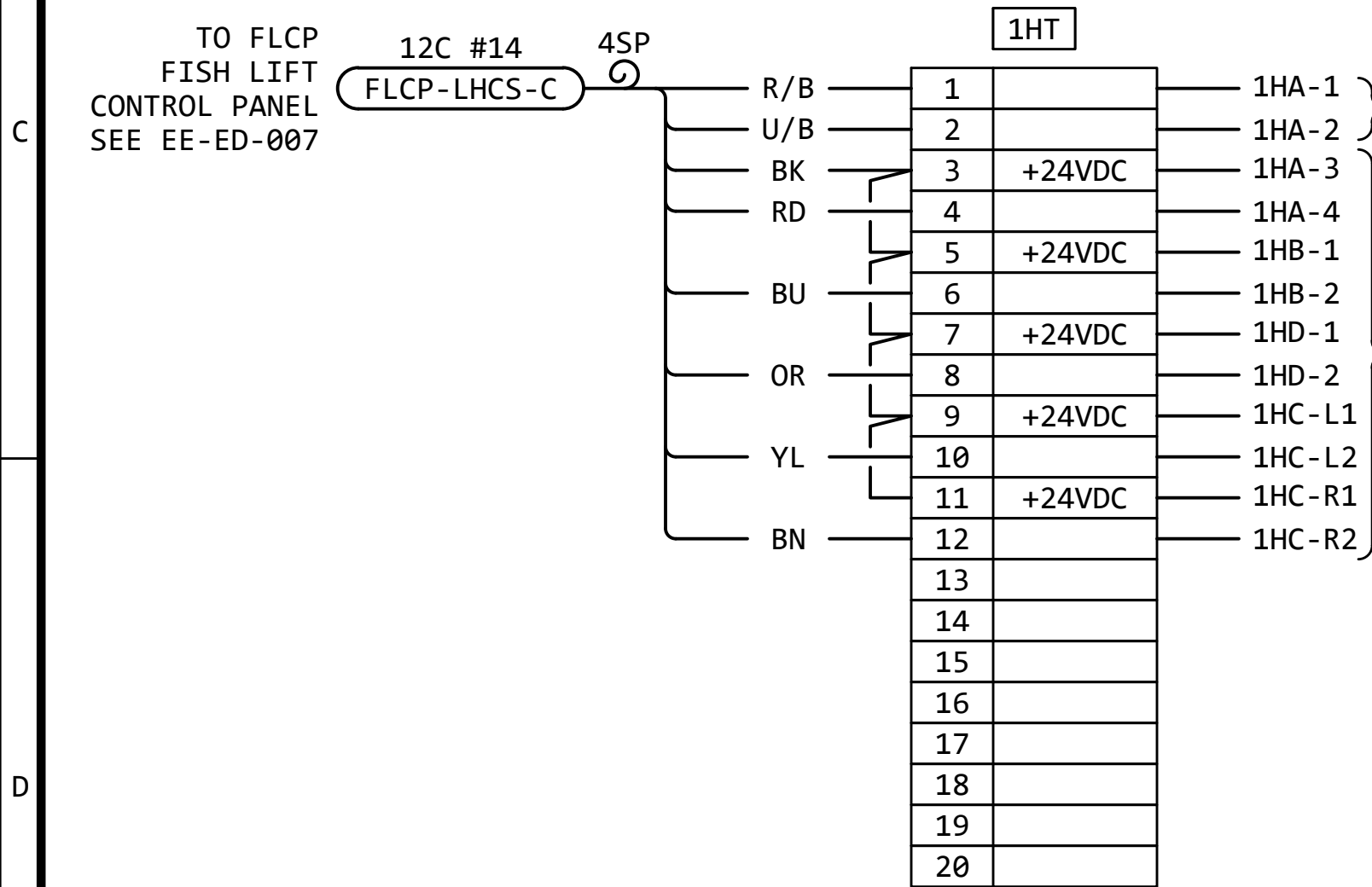
INTERIOR ELEVATION



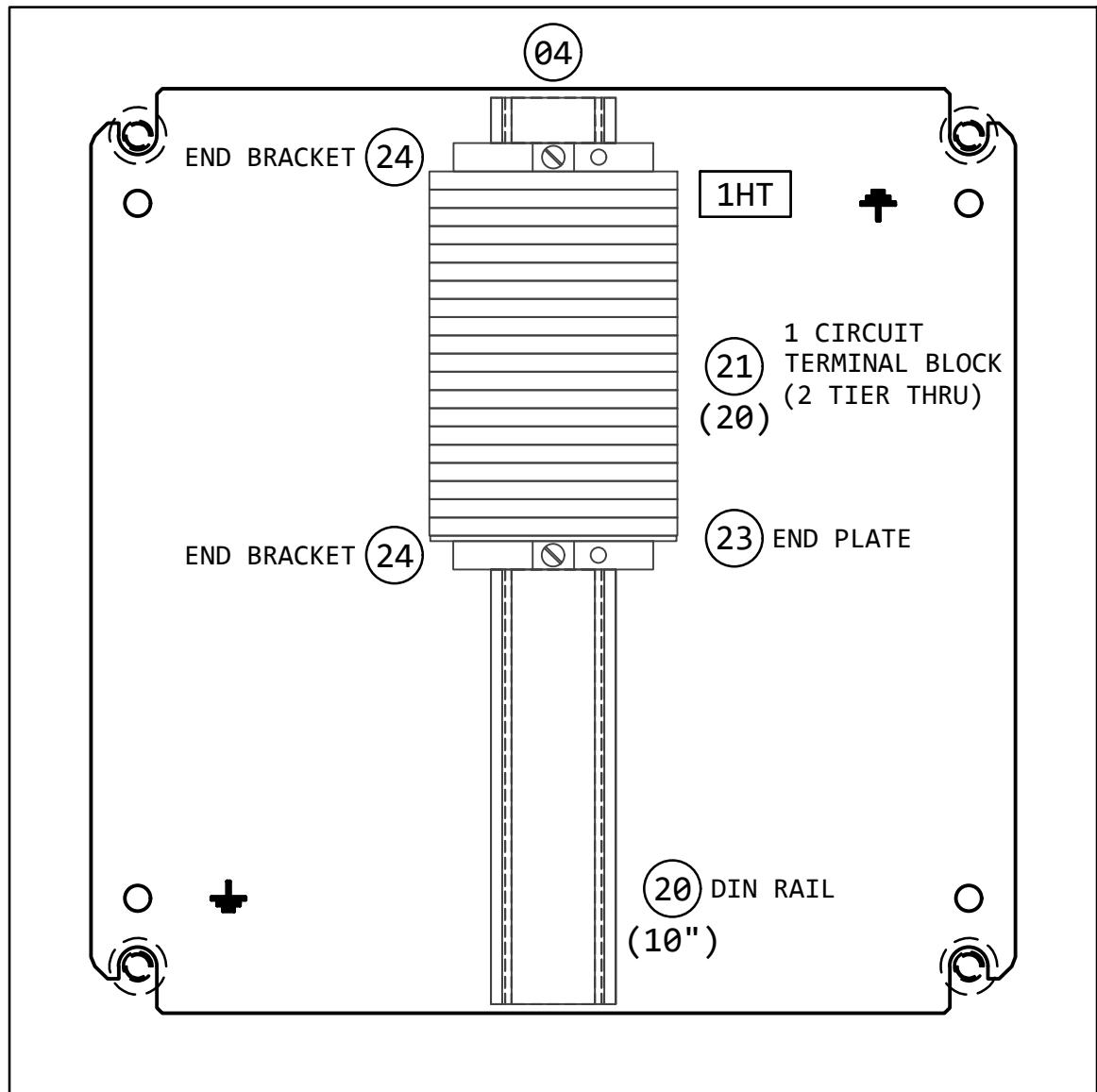
FRONT ELEVATION



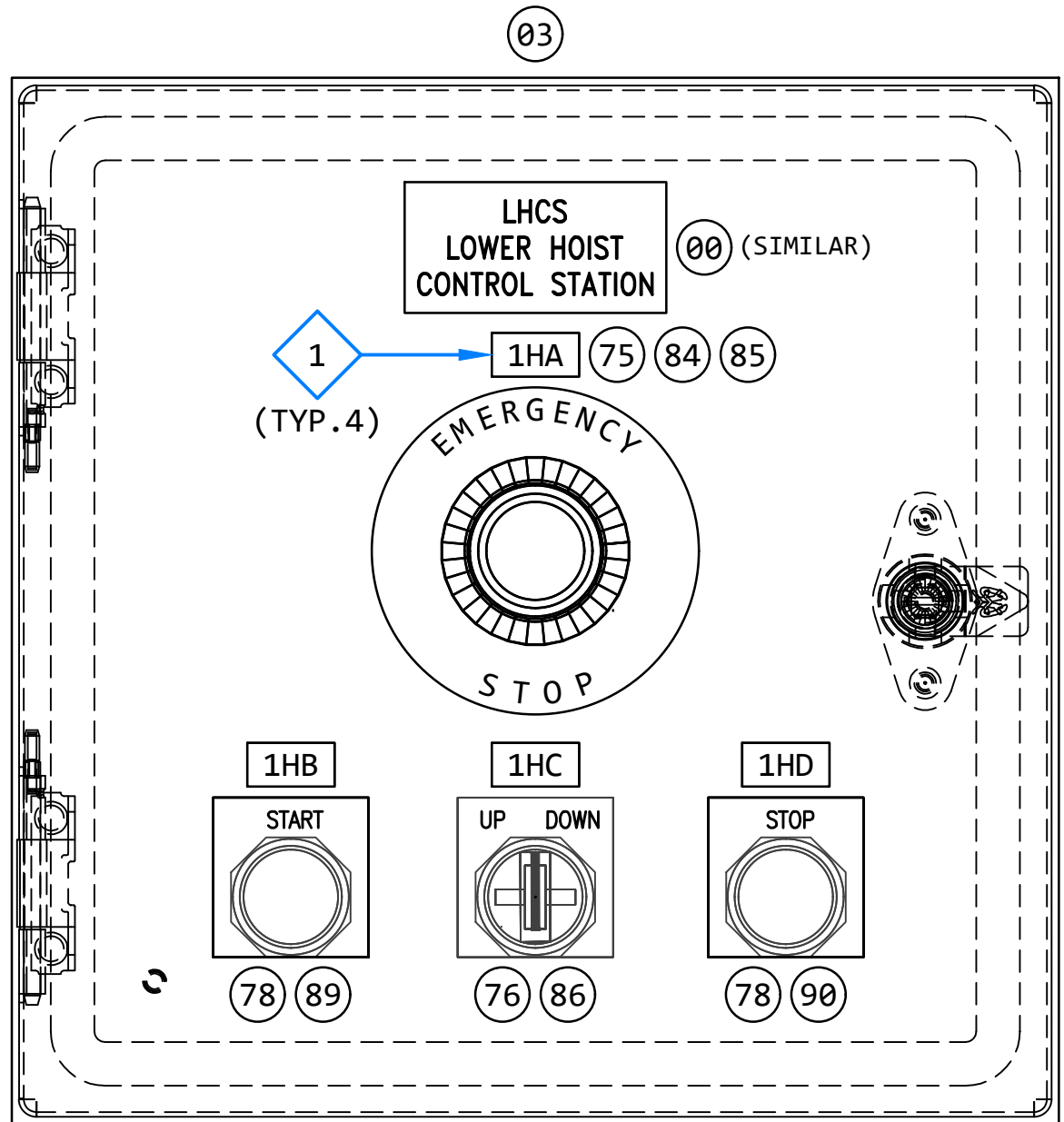
SIDE VIEW



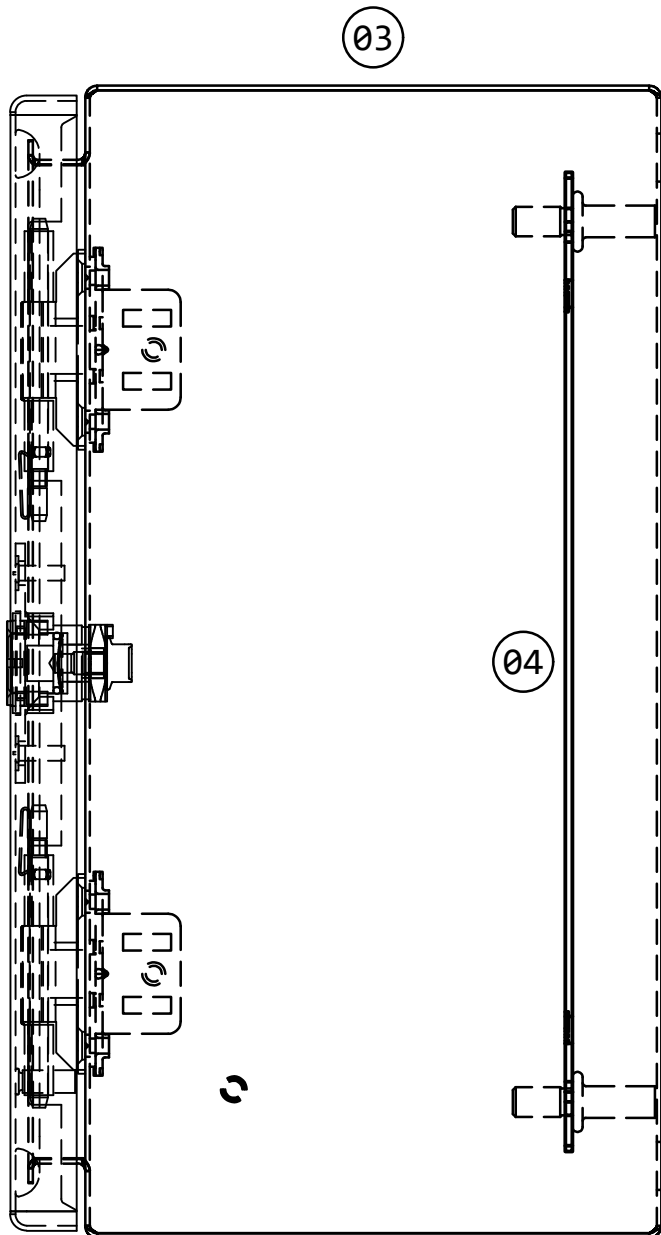
INTERCONNECTION DIAGRAM



INTERIOR ELEVATION



FRONT ELEVATION



SIDE VIEW

KEYED NOTES:

1 THE EQUIPMENT LOCATION TAGS SHOWN ON THE FRONT ELEVATIONS ARE SHOWN THERE FOR DEVICE LOCATION IDENTIFICATION PURPOSES ONLY. THEY SHALL NOT BE INSTALLED ON THE FRONT OF THE DOOR.

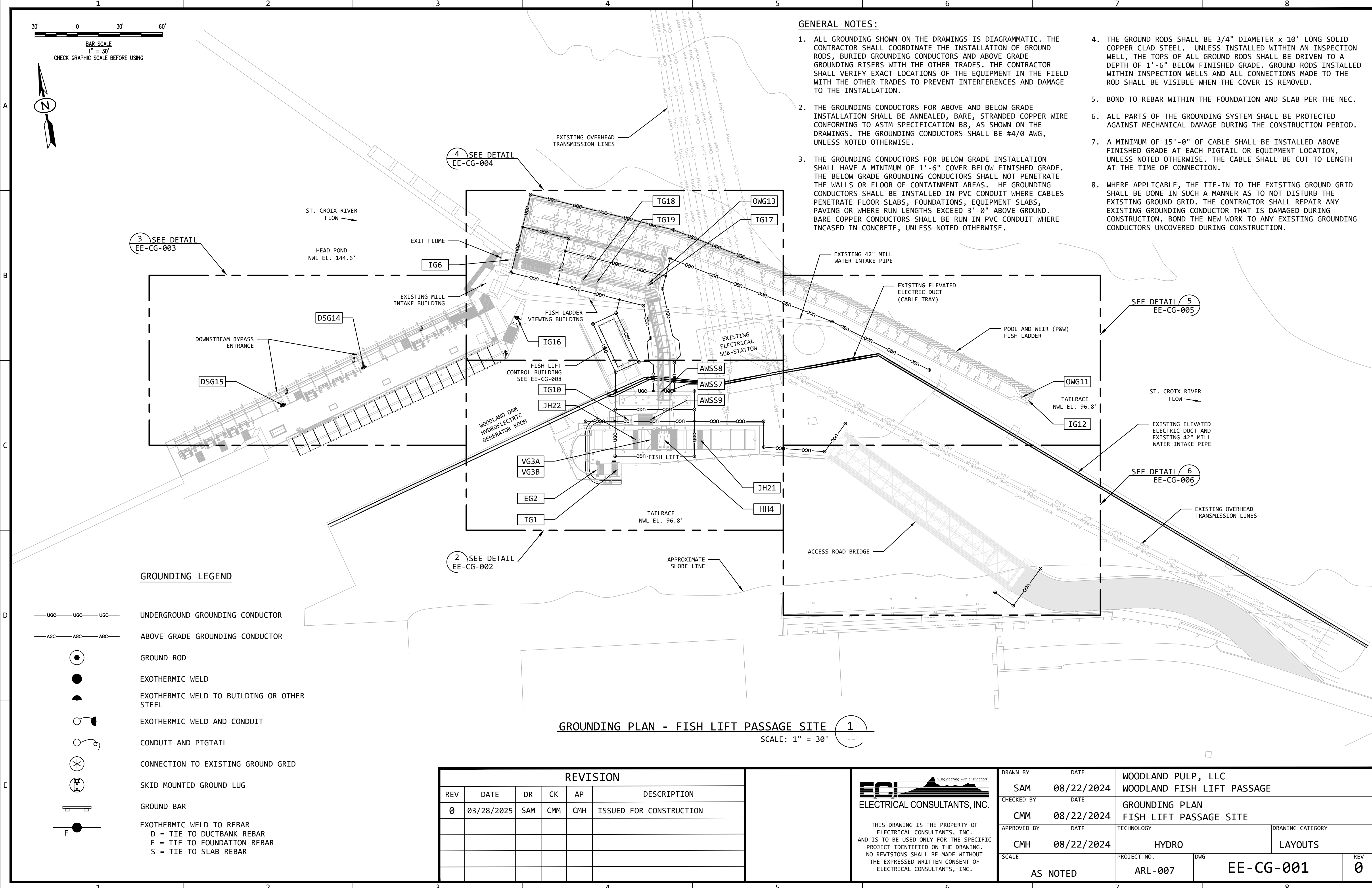
THE EQUIPMENT LOCATION TAGS SHALL BE INSTALLED ON THE INSIDE OF THE DOOR, ADJACENT TO EACH DEVICE.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	EQUIPMENT LAYOUT - FRONT ELEVATION HOIST CONTROL STATIONS (UHCS & LHCS)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
HALF	ARL-007	EE-CE-003	0	



GENERAL NOTES:

- 1. ALL GROUNDING SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF GROUND RODS, BURIED GROUNDING CONDUCTORS AND ABOVE GRADE GROUNDING RISERS WITH THE OTHER TRADES. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF THE EQUIPMENT IN THE FIELD WITH THE OTHER TRADES TO PREVENT INTERFERENCES AND DAMAGE TO THE INSTALLATION.
- 2. THE GROUNDING CONDUCTORS FOR ABOVE AND BELOW GRADE INSTALLATION SHALL BE ANNEALED, BARE, STRANDED COPPER WIRE CONFORMING TO ASTM SPECIFICATION B8, AS SHOWN ON THE DRAWINGS. THE GROUNDING CONDUCTORS SHALL BE #4/0 AWG, UNLESS NOTED OTHERWISE.
- 3. THE GROUNDING CONDUCTORS FOR BELOW GRADE INSTALLATION SHALL HAVE A MINIMUM OF 1'-6" COVER BELOW FINISHED GRADE. THE BELOW GRADE GROUNDING CONDUCTORS SHALL NOT PENETRATE THE WALLS OR FLOOR OF CONTAINMENT AREAS. THE GROUNDING CONDUCTORS SHALL BE INSTALLED IN PVC CONDUIT WHERE CABLES PENETRATE FLOOR SLABS, FOUNDATIONS, EQUIPMENT SLABS, PAVING OR WHERE RUN LENGTHS EXCEED 3'-0" ABOVE GROUND. BARE COPPER CONDUCTORS SHALL BE RUN IN PVC CONDUIT WHERE INCASED IN CONCRETE, UNLESS NOTED OTHERWISE.
- 4. THE GROUND RODS SHALL BE 3/4" DIAMETER x 10' LONG SOLID COPPER CLAD STEEL. UNLESS INSTALLED WITHIN AN INSPECTION WELL, THE TOPS OF ALL GROUND RODS SHALL BE DRIVEN TO A DEPTH OF 1'-6" BELOW FINISHED GRADE. GROUND RODS INSTALLED WITHIN INSPECTION WELLS AND ALL CONNECTIONS MADE TO THE ROD SHALL BE VISIBLE WHEN THE COVER IS REMOVED.
- 5. BOND TO REBAR WITHIN THE FOUNDATION AND SLAB PER THE NEC.
- 6. ALL PARTS OF THE GROUNDING SYSTEM SHALL BE PROTECTED AGAINST MECHANICAL DAMAGE DURING THE CONSTRUCTION PERIOD.
- 7. A MINIMUM OF 15'-0" OF CABLE SHALL BE INSTALLED ABOVE FINISHED GRADE AT EACH PIGTAIL OR EQUIPMENT LOCATION, UNLESS NOTED OTHERWISE. THE CABLE SHALL BE CUT TO LENGTH AT THE TIME OF CONNECTION.
- 8. WHERE APPLICABLE, THE TIE-IN TO THE EXISTING GROUND GRID SHALL BE DONE IN SUCH A MANNER AS TO NOT DISTURB THE EXISTING GROUND GRID. THE CONTRACTOR SHALL REPAIR ANY EXISTING GROUNDING CONDUCTOR THAT IS DAMAGED DURING CONSTRUCTION. BOND THE NEW WORK TO ANY EXISTING GROUNDING CONDUCTORS UNCOVERED DURING CONSTRUCTION.

GROUNDING LEGEND

- UGC — UGC — UGC — UNDERGROUND GROUNDING CONDUCTOR
- AGC — AGC — AGC — ABOVE GRADE GROUNDING CONDUCTOR
- GROUND ROD
- EXOTHERMIC WELD
- ◐ EXOTHERMIC WELD TO BUILDING OR OTHER STEEL
- ◑ EXOTHERMIC WELD AND CONDUIT
- CONDUIT AND PIGTAIL
- ⊕ CONNECTION TO EXISTING GROUND GRID
- Ⓜ SKID MOUNTED GROUND LUG
- GROUND BAR
- EXOTHERMIC WELD TO REBAR
D = TIE TO DUCTBANK REBAR
F = TIE TO FOUNDATION REBAR
S = TIE TO SLAB REBAR

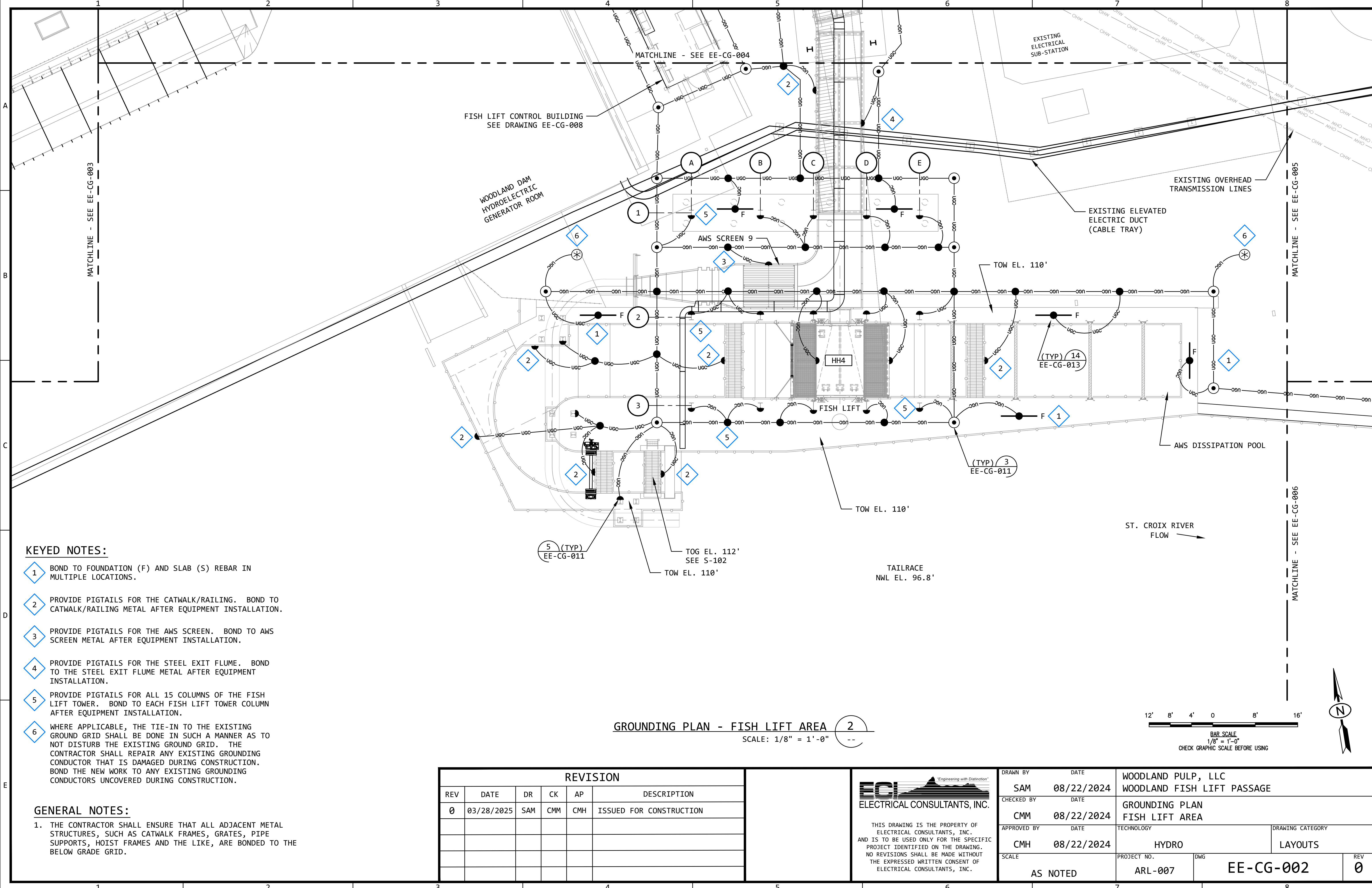
GROUNDING PLAN - FISH LIFT PASSAGE SITE 1
SCALE: 1" = 30'

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GROUNDING PLAN FISH LIFT PASSAGE SITE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CG-001	0	



KEYED NOTES:

- 1 BOND TO FOUNDATION (F) AND SLAB (S) REBAR IN MULTIPLE LOCATIONS.
- 2 PROVIDE PIGTAILS FOR THE CATWALK/RAILING. BOND TO CATWALK/RAILING METAL AFTER EQUIPMENT INSTALLATION.
- 3 PROVIDE PIGTAILS FOR THE AWS SCREEN. BOND TO AWS SCREEN METAL AFTER EQUIPMENT INSTALLATION.
- 4 PROVIDE PIGTAILS FOR THE STEEL EXIT FLUME. BOND TO THE STEEL EXIT FLUME METAL AFTER EQUIPMENT INSTALLATION.
- 5 PROVIDE PIGTAILS FOR ALL 15 COLUMNS OF THE FISH LIFT TOWER. BOND TO EACH FISH LIFT TOWER COLUMN AFTER EQUIPMENT INSTALLATION.
- 6 WHERE APPLICABLE, THE TIE-IN TO THE EXISTING GROUND GRID SHALL BE DONE IN SUCH A MANNER AS TO NOT DISTURB THE EXISTING GROUND GRID. THE CONTRACTOR SHALL REPAIR ANY EXISTING GROUNDING CONDUCTOR THAT IS DAMAGED DURING CONSTRUCTION. BOND THE NEW WORK TO ANY EXISTING GROUNDING CONDUCTORS UNCOVERED DURING CONSTRUCTION.

GENERAL NOTES:

- THE CONTRACTOR SHALL ENSURE THAT ALL ADJACENT METAL STRUCTURES, SUCH AS CATWALK FRAMES, GRATES, PIPE SUPPORTS, HOIST FRAMES AND THE LIKE, ARE BONDED TO THE BELOW GRADE GRID.

GROUNDING PLAN - FISH LIFT AREA 2
SCALE: 1/8" = 1'-0"

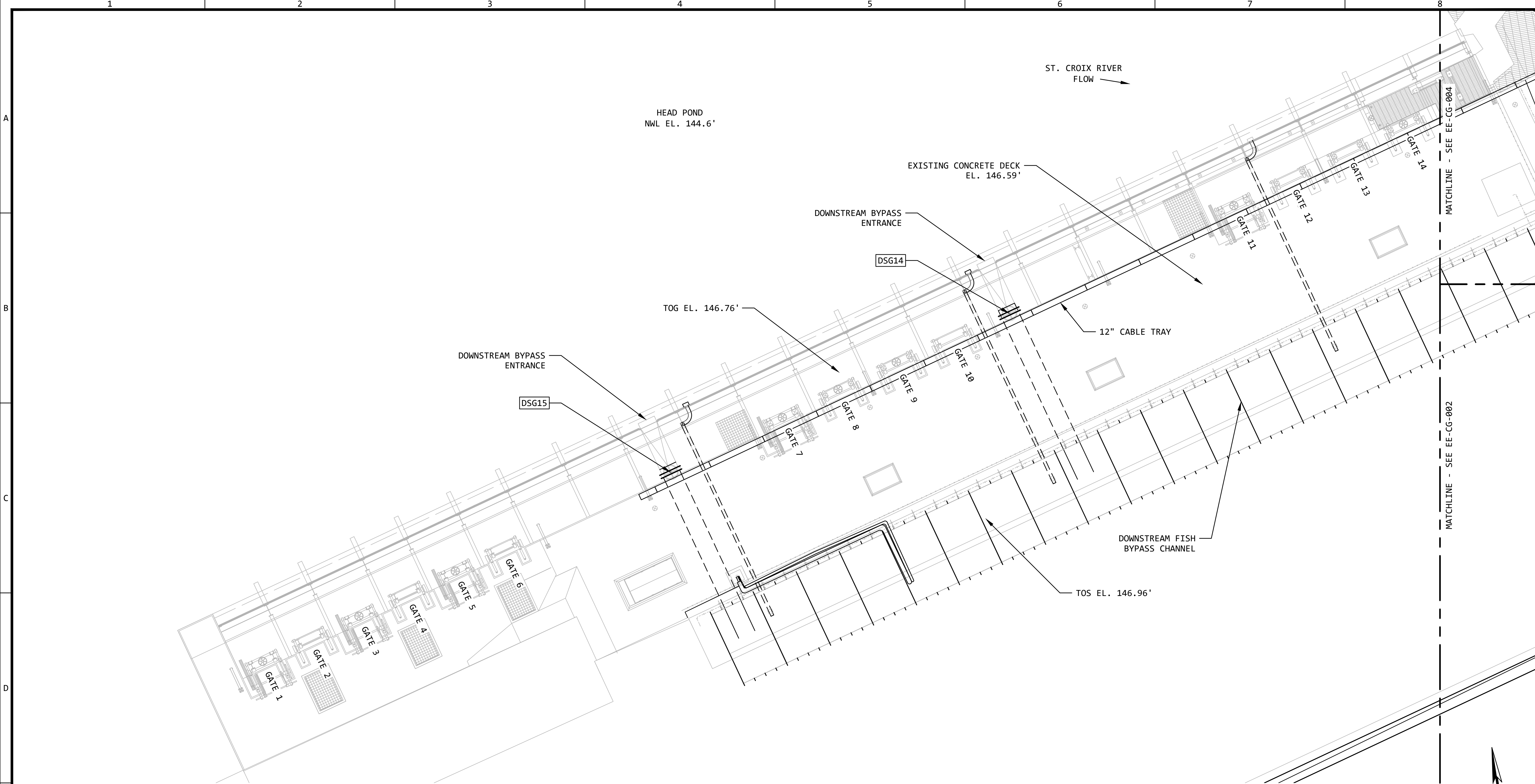
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

ECI
ELECTRICAL CONSULTANTS, INC.

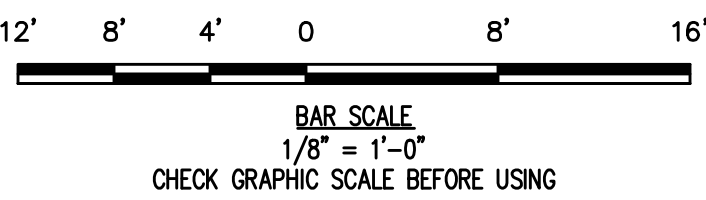
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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GROUNDING PLAN FISH LIFT AREA		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CG-002	0	



GROUNDING PLAN - DOWNSTREAM FISH BYPASS AREA 3
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

1. THE BELOW GRADE GROUND GRID IS NOT AVAILABLE IN THIS AREA. ALL REQUIRED GROUNDING FOR THE DSG14/DSG15 INSTALLATION MAY BE ACCOMPLISHED BY USING THE #2/0 BARE GROUNDING CONDUCTOR PROVIDED WITH THE CABLE TRAY.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

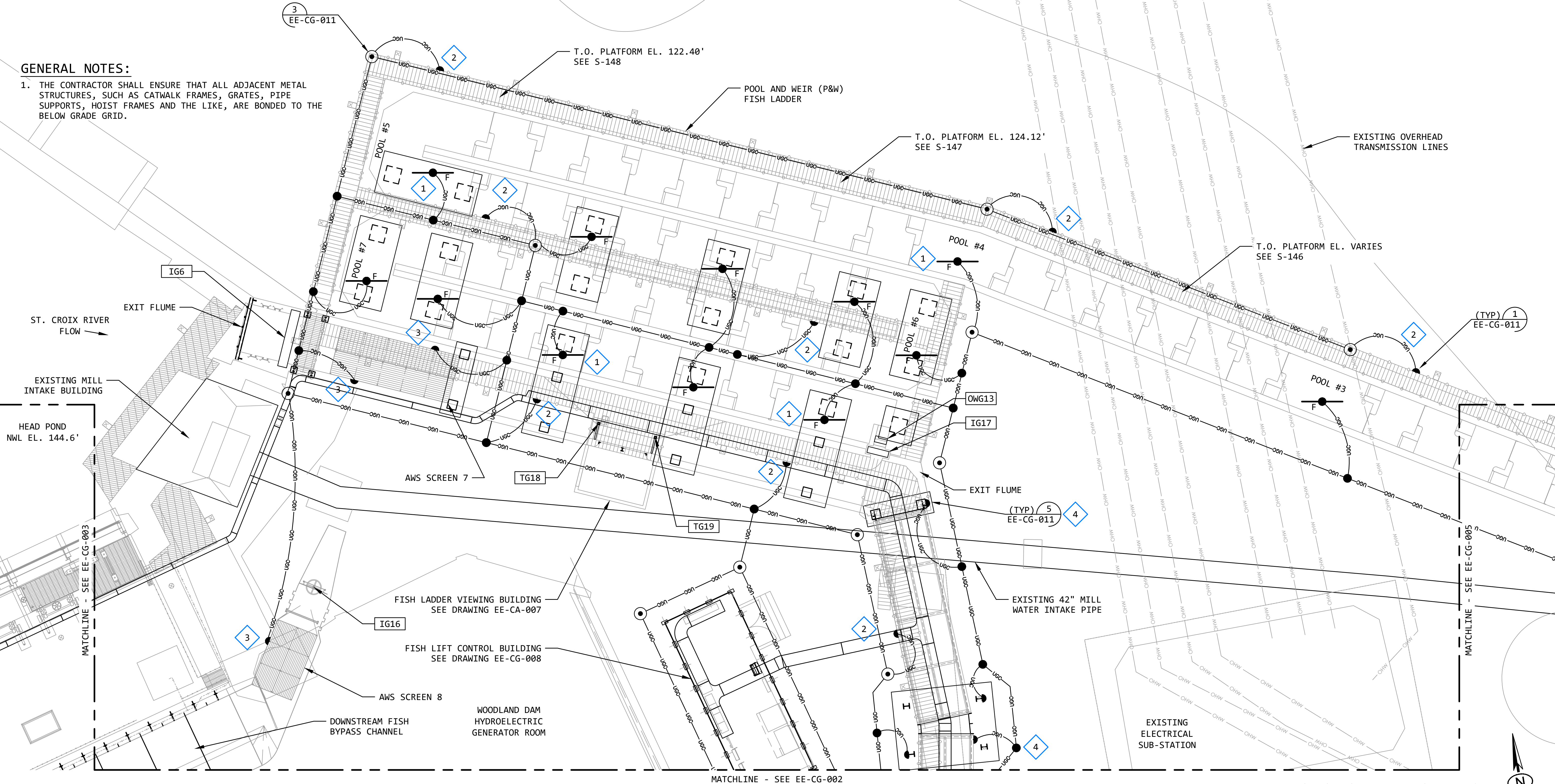


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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GROUNDING PLAN		
CMM	08/22/2024	DOWNSTREAM FISH BYPASS AREA		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CG-003	0	

GENERAL NOTES:

1. THE CONTRACTOR SHALL ENSURE THAT ALL ADJACENT METAL STRUCTURES, SUCH AS CATWALK FRAMES, GRATES, PIPE SUPPORTS, HOIST FRAMES AND THE LIKE, ARE BONDED TO THE BELOW GRADE GRID.

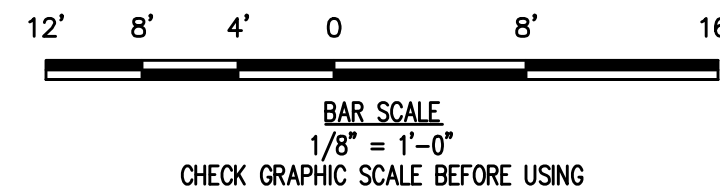


KEYED NOTES:

- 1 BOND TO FOUNDATION (F) AND SLAB (S) REBAR IN MULTIPLE LOCATIONS.
- 2 PROVIDE PIGTAILS FOR THE CATWALK/RAILING. BOND TO CATWALK/RAILING METAL AFTER EQUIPMENT INSTALLATION.
- 3 PROVIDE PIGTAILS FOR THE AWS SCREENS. BOND TO AWS SCREEN METAL AFTER EQUIPMENT INSTALLATION.
- 4 PROVIDE PIGTAILS FOR THE STEEL EXIT FLUME. BOND TO THE STEEL EXIT FLUME METAL AFTER EQUIPMENT INSTALLATION.

GROUNDING PLAN - EXIT FLUME AND FISH LADDER AREAS 4

SCALE: 1/8" = 1'-0"

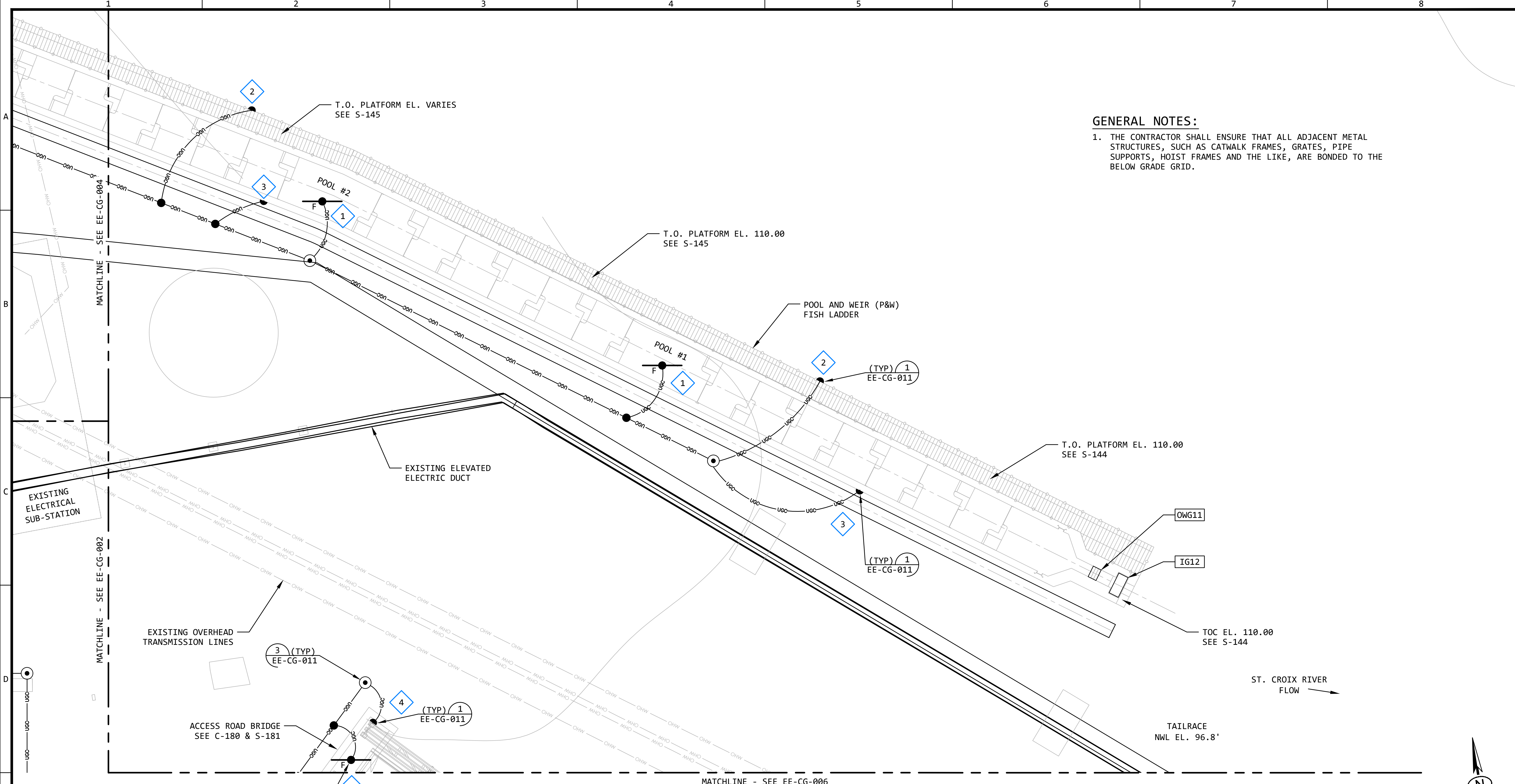


REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GROUNDING PLAN		
CMM	08/22/2024	EXIT FLUME AND FISH LADDER AREAS		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	AS NOTED	PROJECT NO.	DWG	REV
		ARL-007	EE-CG-004	0



GENERAL NOTES:

1. THE CONTRACTOR SHALL ENSURE THAT ALL ADJACENT METAL STRUCTURES, SUCH AS CATWALK FRAMES, GRATES, PIPE SUPPORTS, HOIST FRAMES AND THE LIKE, ARE BONDED TO THE BELOW GRADE GRID.

- KEYED NOTES:**
- 1 BOND TO FOUNDATION (F) AND SLAB (S) REBAR IN MULTIPLE LOCATIONS.
 - 2 PROVIDE PIGTAILS FOR THE CATWALK/RAILING. BOND TO CATWALK/RAILING METAL AFTER EQUIPMENT INSTALLATION.
 - 3 PROVIDE PIGTAILS FOR THE BYPASS PIPE/PIPE SUPPORT. BOND TO BYPASS PIPE/PIPE SUPPORT METAL AFTER EQUIPMENT INSTALLATION.
 - 4 PROVIDE PIGTAILS FOR THE BRIDGE. BOND TO BRIDGE METAL AFTER EQUIPMENT INSTALLATION.

GROUNDING PLAN - FISH LADDER AREA

SCALE: 1/8" = 1'-0"

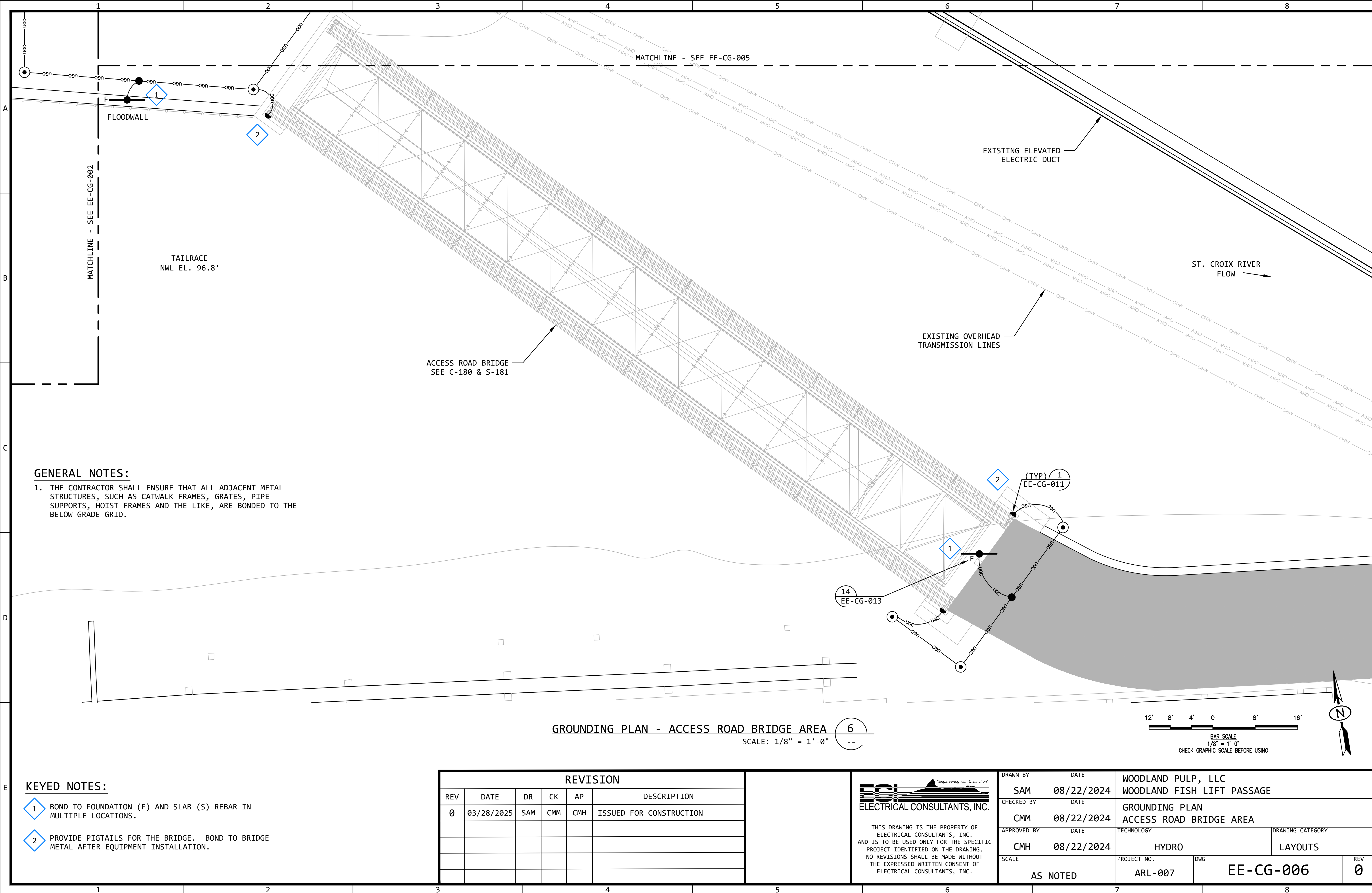
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GROUNDING PLAN		
CMM	08/22/2024	FISH LADDER AREA		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CG-005	0	



GENERAL NOTES:

1. THE CONTRACTOR SHALL ENSURE THAT ALL ADJACENT METAL STRUCTURES, SUCH AS CATWALK FRAMES, GRATES, PIPE SUPPORTS, HOIST FRAMES AND THE LIKE, ARE BONDED TO THE BELOW GRADE GRID.

KEYED NOTES:

- 1 BOND TO FOUNDATION (F) AND SLAB (S) REBAR IN MULTIPLE LOCATIONS.
- 2 PROVIDE PIGTAILS FOR THE BRIDGE. BOND TO BRIDGE METAL AFTER EQUIPMENT INSTALLATION.

GROUNDING PLAN - ACCESS ROAD BRIDGE AREA 6

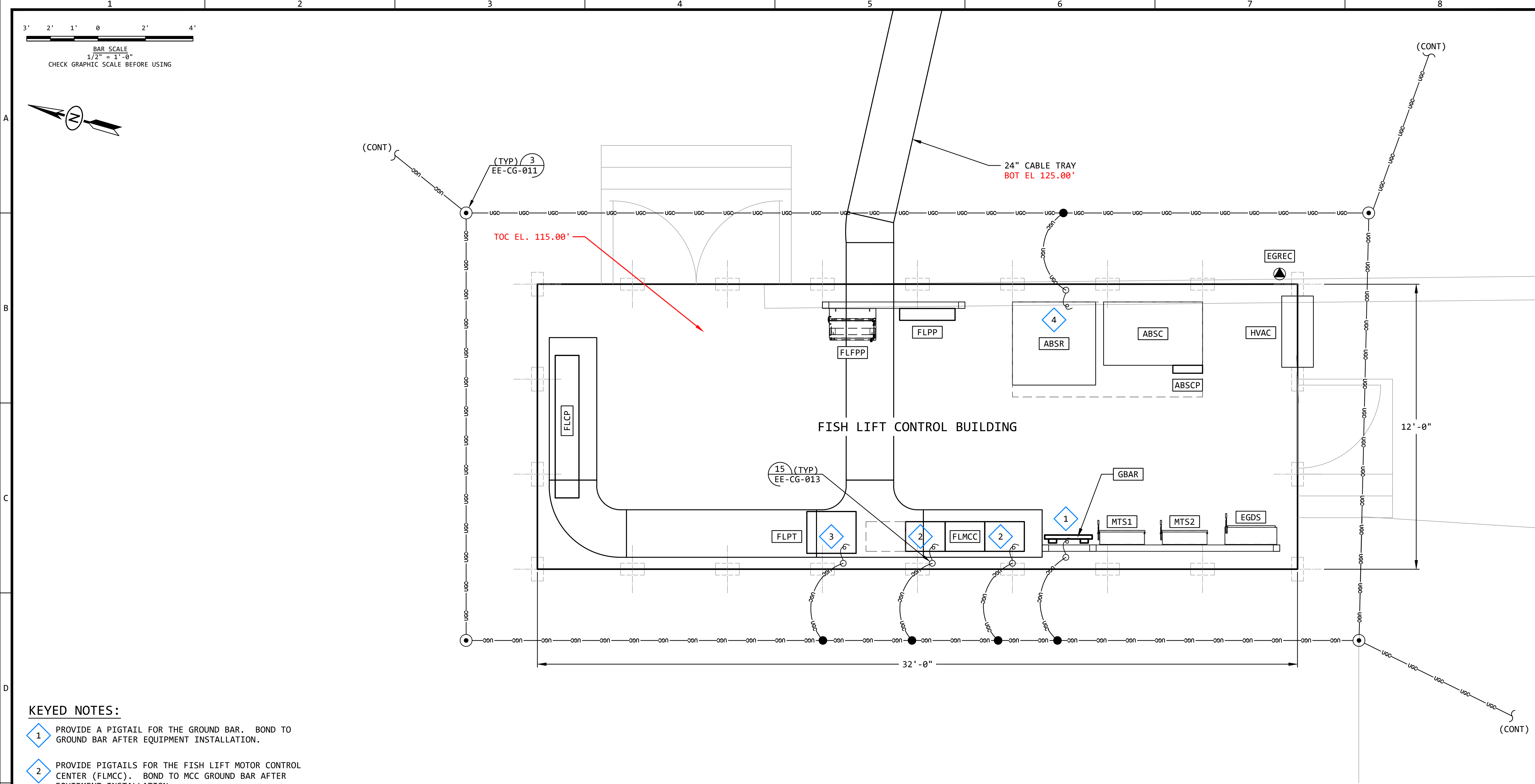
SCALE: 1/8" = 1'-0"

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GROUNDING PLAN		
CMM	08/22/2024	ACCESS ROAD BRIDGE AREA		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CG-006	0	



- KEYED NOTES:**
- 1 PROVIDE A PIGTAIL FOR THE GROUND BAR. BOND TO GROUND BAR AFTER EQUIPMENT INSTALLATION.
 - 2 PROVIDE PIGTAILS FOR THE FISH LIFT MOTOR CONTROL CENTER (FLMCC). BOND TO MCC GROUND BAR AFTER EQUIPMENT INSTALLATION.
 - 3 PROVIDE PIGTAILS FOR THE FISH LIFT POWER TRANSFORMER (FLPT). BOND TO TRANSFORMER GROUND TERMINAL AFTER EQUIPMENT INSTALLATION.
 - 4 PROVIDE A PIGTAIL FOR THE AIR BURST SYSTEM SKID. BOND TO THE SKID GROUND BAR, AS REQUIRED, AFTER EQUIPMENT INSTALLATION.

GENERAL NOTES:

1. THE CONTRACTOR SHALL ENSURE THAT ALL ADJACENT METAL STRUCTURES, SUCH AS CATWALK FRAMES, GRATES, PIPE SUPPORTS, HOIST FRAMES AND THE LIKE, ARE BONDED TO THE BELOW GRADE GRID.

GROUNDING PLAN - FISH LIFT CONTROL BUILDING 8
SCALE: 1/2" = 1'-0"

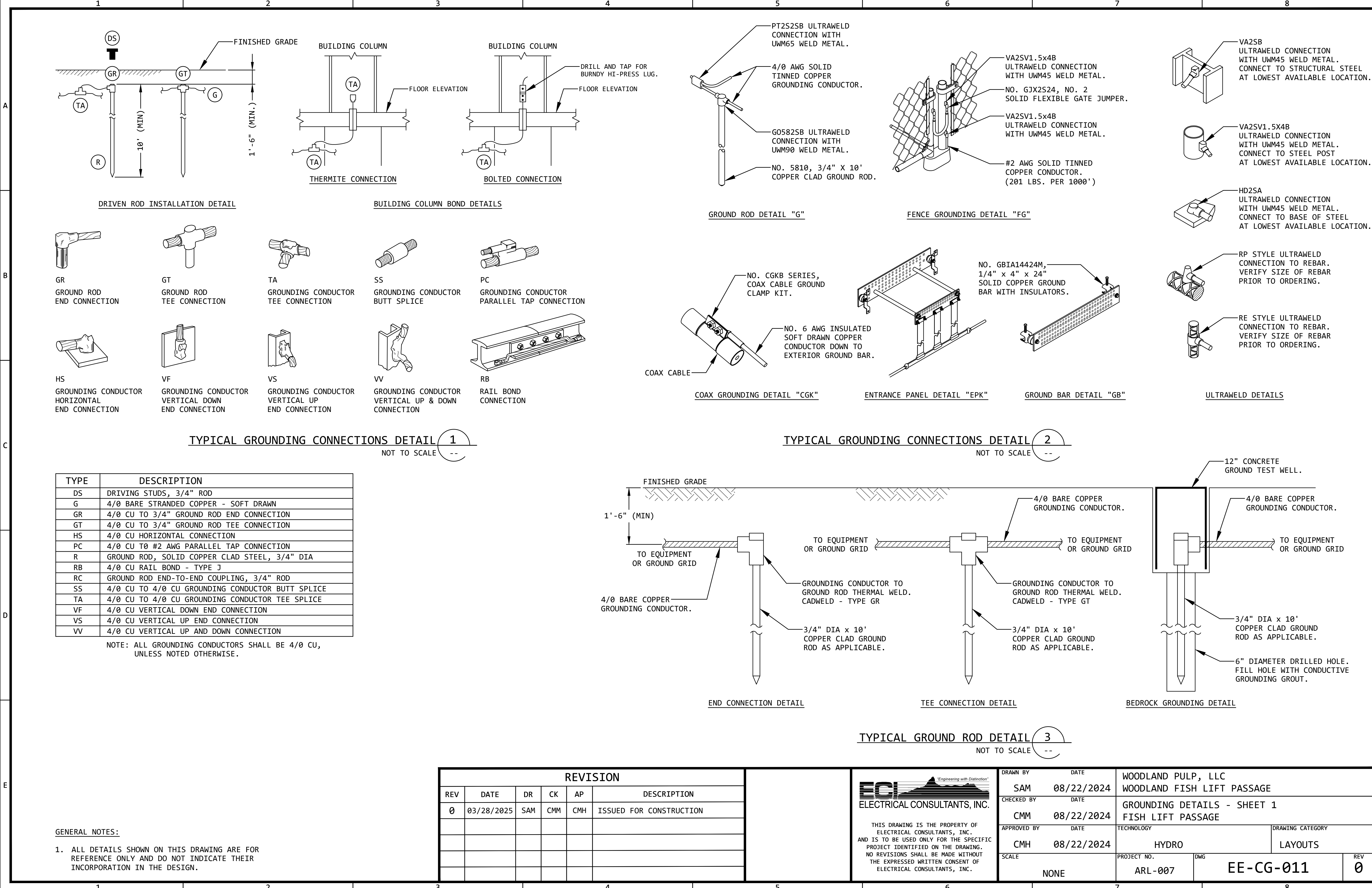
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY		DATE		WOODLAND PULP, LLC	
SAM		08/22/2024		WOODLAND FISH LIFT PASSAGE	
CHECKED BY		DATE		GROUNDING PLAN	
CMM		08/22/2024		FISH LIFT CONTROL BUILDING	
APPROVED BY		DATE		TECHNOLOGY	DRAWING CATEGORY
CMH		08/22/2024		HYDRO	LAYOUTS
SCALE		PROJECT NO.		DWG	REV
AS NOTED		ARL-007		EE-CG-008	0



GENERAL NOTES:

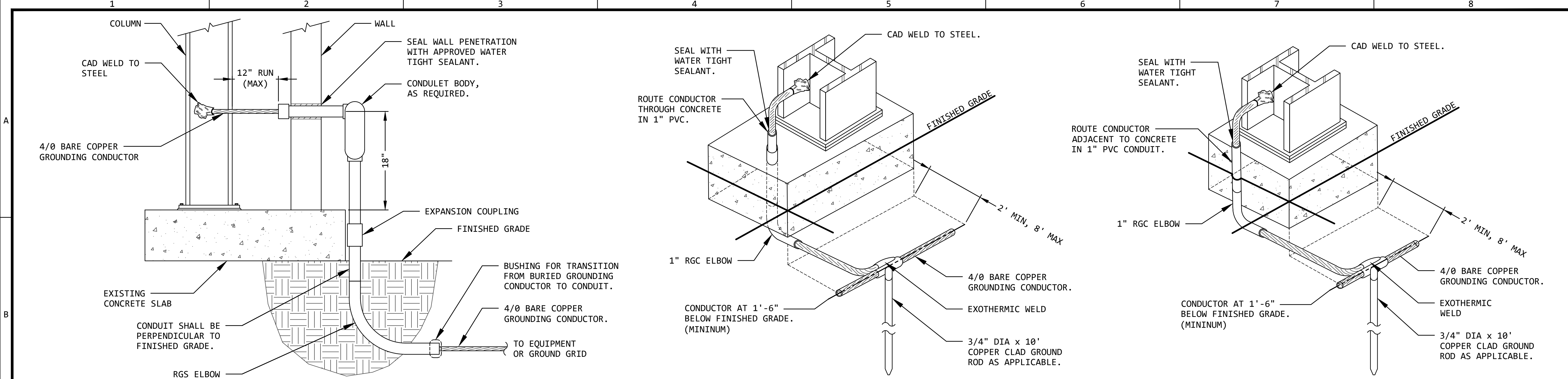
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REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
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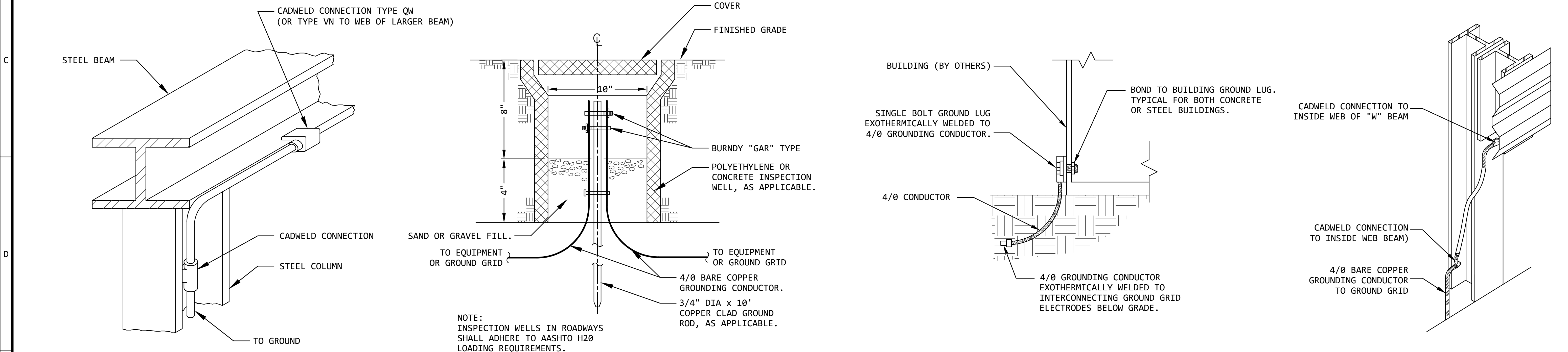
DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GROUNDING DETAILS - SHEET 1 FISH LIFT PASSAGE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-CG-011	0	



TYPICAL THRU-WALL COLUMN GROUNDING DETAIL 4
NOTE: FOR EXISTING BUILDINGS ONLY NOT TO SCALE

TYPICAL COLUMN GROUNDING DETAIL 5
NOT TO SCALE

TYPICAL EXISTING PIER GROUNDING DETAIL 6
NOT TO SCALE



TYPICAL BUILDING STEEL GROUNDING DETAIL 7
NOT TO SCALE

TYPICAL INSPECTION WELL DETAIL 8
NOT TO SCALE

TYPICAL BUILDING GROUND DETAIL 9
NOT TO SCALE

TYPICAL GUARD RAIL GROUND DETAIL 10
NOT TO SCALE

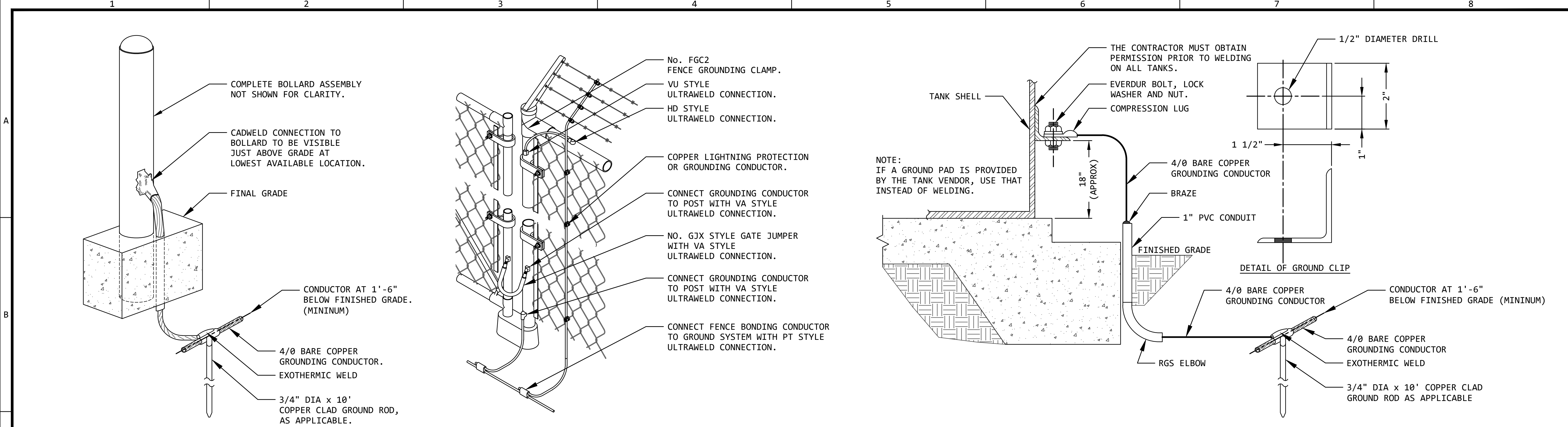
GENERAL NOTES:
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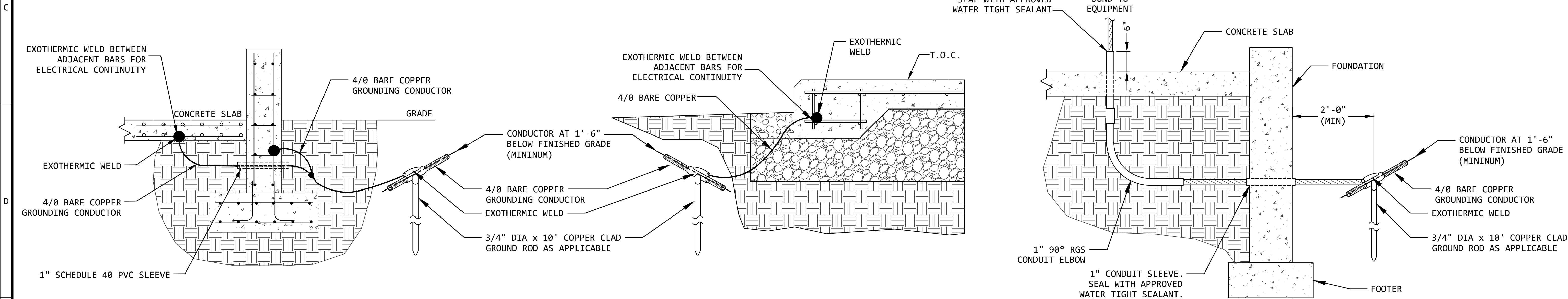
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SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GROUNDING DETAILS - SHEET 2		
CMM	08/22/2024	FISH LIFT PASSAGE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-CG-012	0	



TYPICAL BOLLARD GROUNDING DETAIL 11 NOT TO SCALE

TYPICAL FENCE/GATE GROUNDING DETAIL 12 NOT TO SCALE

TYPICAL TANK GROUNDING DETAIL 13 NOT TO SCALE



TYPICAL SLAB AND FOUNDATION GROUNDING DETAIL 14 NOT TO SCALE

TYPICAL SLAB OR PAD GROUNDING DETAIL 15 NOT TO SCALE

TYPICAL THROUGH SLAB/FOUNDATION GROUNDING DETAIL 16 NOT TO SCALE

GENERAL NOTES:
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0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

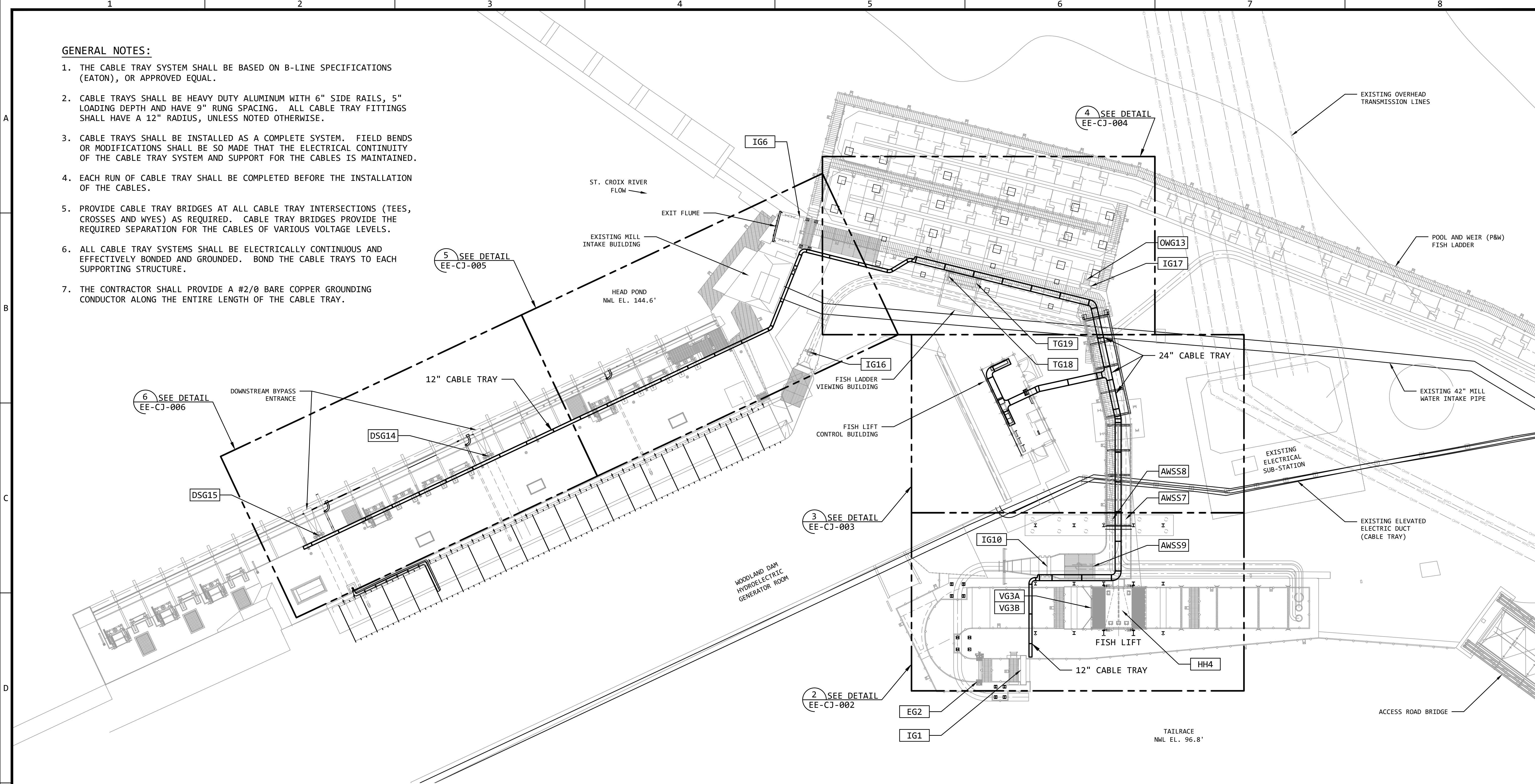
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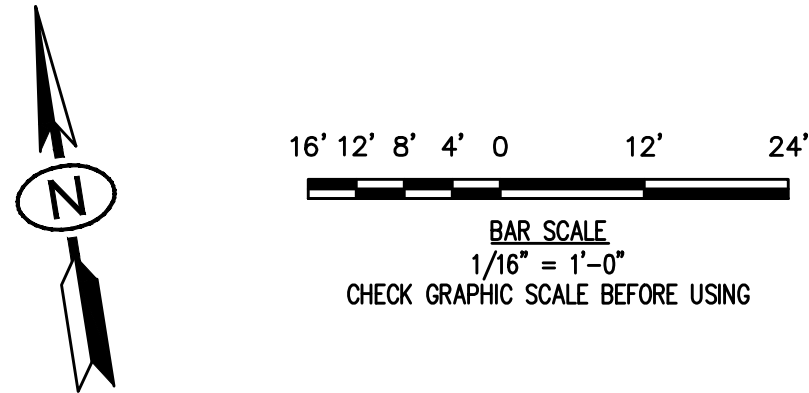
DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	GROUNDING DETAILS - SHEET 3		
CMM	08/22/2024	FISH LIFT PASSAGE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-CG-013	0	

GENERAL NOTES:

1. THE CABLE TRAY SYSTEM SHALL BE BASED ON B-LINE SPECIFICATIONS (EATON), OR APPROVED EQUAL.
2. CABLE TRAYS SHALL BE HEAVY DUTY ALUMINUM WITH 6" SIDE RAILS, 5" LOADING DEPTH AND HAVE 9" RUNG SPACING. ALL CABLE TRAY FITTINGS SHALL HAVE A 12" RADIUS, UNLESS NOTED OTHERWISE.
3. CABLE TRAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM. FIELD BENDS OR MODIFICATIONS SHALL BE SO MADE THAT THE ELECTRICAL CONTINUITY OF THE CABLE TRAY SYSTEM AND SUPPORT FOR THE CABLES IS MAINTAINED.
4. EACH RUN OF CABLE TRAY SHALL BE COMPLETED BEFORE THE INSTALLATION OF THE CABLES.
5. PROVIDE CABLE TRAY BRIDGES AT ALL CABLE TRAY INTERSECTIONS (TEES, CROSSES AND WYES) AS REQUIRED. CABLE TRAY BRIDGES PROVIDE THE REQUIRED SEPARATION FOR THE CABLES OF VARIOUS VOLTAGE LEVELS.
6. ALL CABLE TRAY SYSTEMS SHALL BE ELECTRICALLY CONTINUOUS AND EFFECTIVELY BONDED AND GROUNDED. BOND THE CABLE TRAYS TO EACH SUPPORTING STRUCTURE.
7. THE CONTRACTOR SHALL PROVIDE A #2/0 BARE COPPER GROUNDING CONDUCTOR ALONG THE ENTIRE LENGTH OF THE CABLE TRAY.



ABOVE GRADE RACEWAY PLAN - FISH LIFT PASSAGE SITE 1
SCALE: 1/16" = 1'-0"

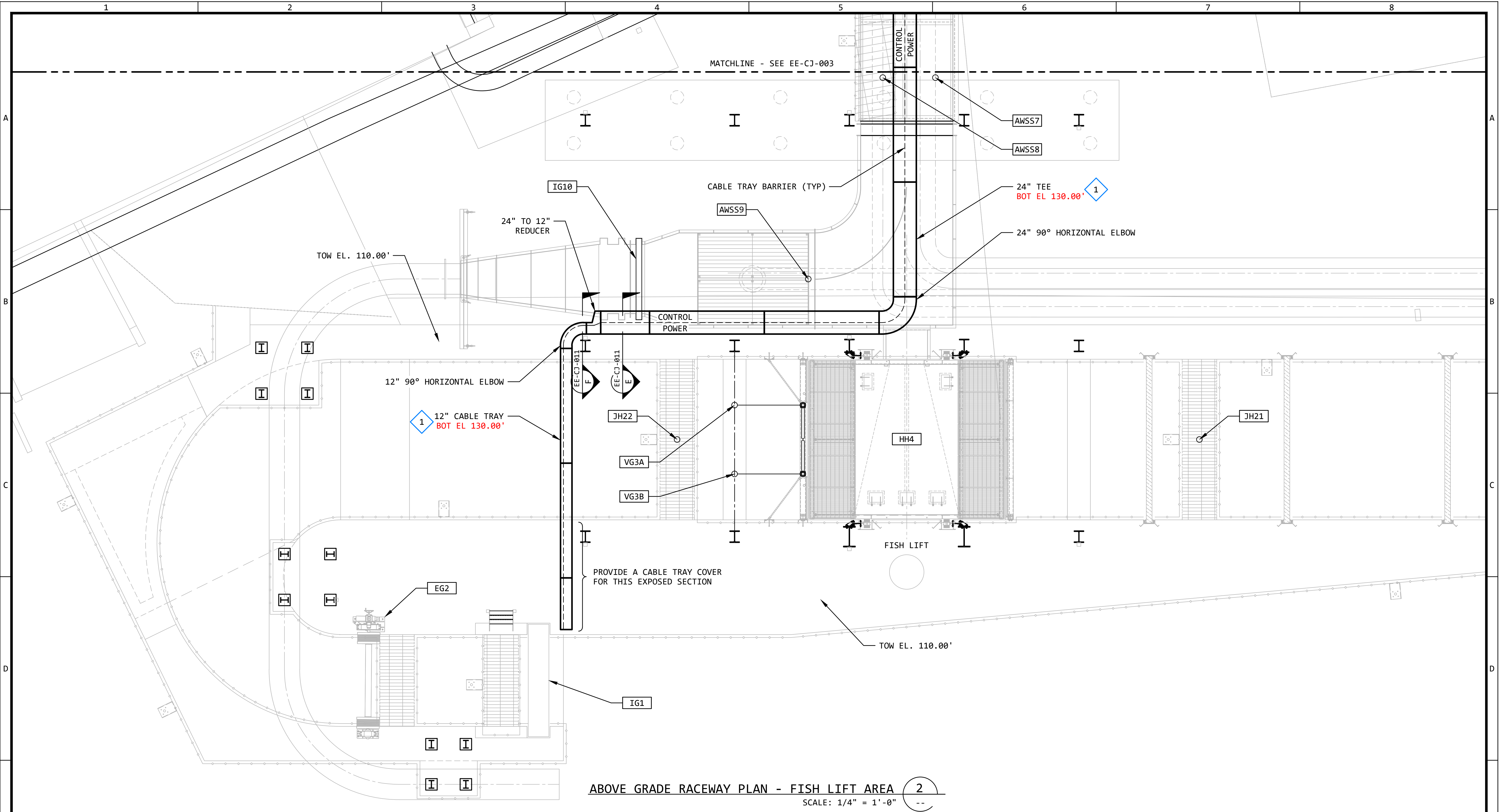


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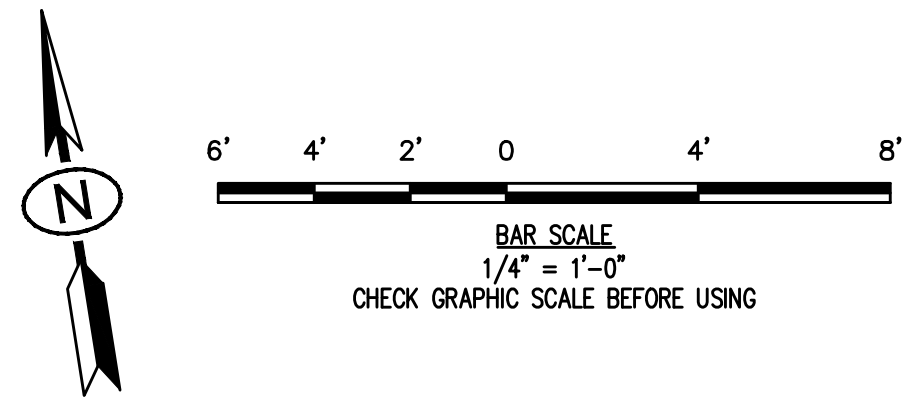
DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ABOVE GRADE RACEWAY PLAN		
CMM	08/22/2024	FISH LIFT PASSAGE SITE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CJ-001	0	



ABOVE GRADE RACEWAY PLAN - FISH LIFT AREA 2
SCALE: 1/4" = 1'-0"

KEYED NOTES:

1 THE ELEVATIONS OF THE CABLE TRAY IS YET TO BE DETERMINED. THE ELEVATIONS SHOWN (BOT EL) ARE APPROXIMATE, AND HELP TO IDENTIFY THE TOTAL SCOPE OF THE DESIGN.

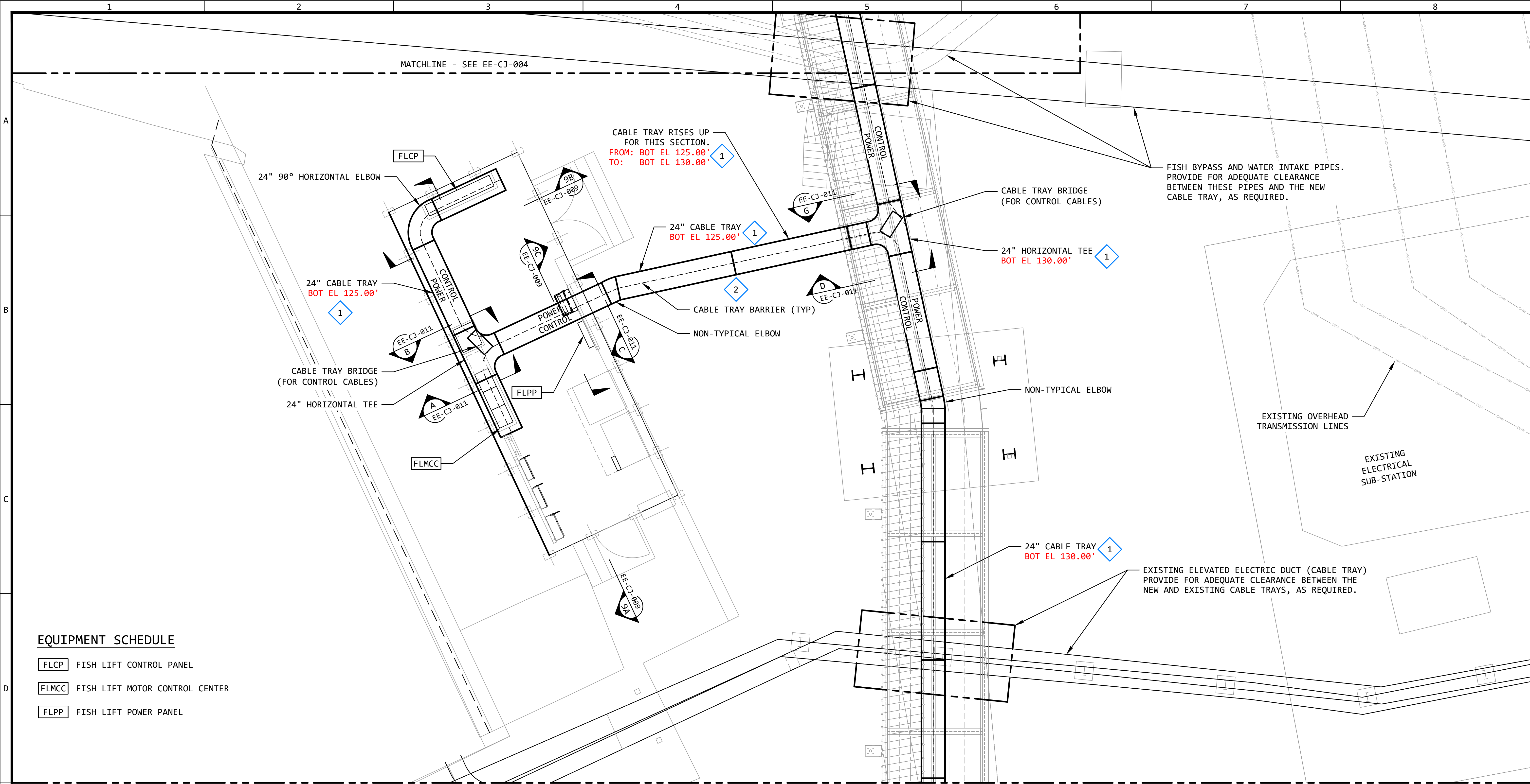


REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ABOVE GRADE RACEWAY PLAN FISH LIFT AREA		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CJ-002	0	

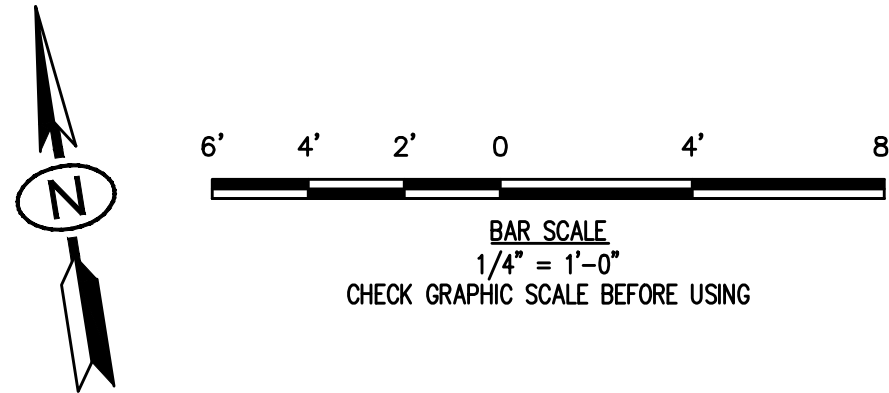


EQUIPMENT SCHEDULE

- FLCP FISH LIFT CONTROL PANEL
- FLMCC FISH LIFT MOTOR CONTROL CENTER
- FLPP FISH LIFT POWER PANEL

KEYED NOTES:

- 1 THE ELEVATIONS OF THE CABLE TRAY IS YET TO BE DETERMINED. THE ELEVATIONS SHOWN (BOT EL) ARE APPROXIMATE, AND HELP TO IDENTIFY THE TOTAL SCOPE OF THE DESIGN.
- 2 PROVIDE A CABLE TRAY COVER FOR THIS EXPOSED SECTION, BETWEEN THE CONTROL BUILDING AND THE FIRST CABLE TRAY TEE FITTING.



ABOVE GRADE RACEWAY PLAN - FISH LIFT CONTROL BUILDING 3

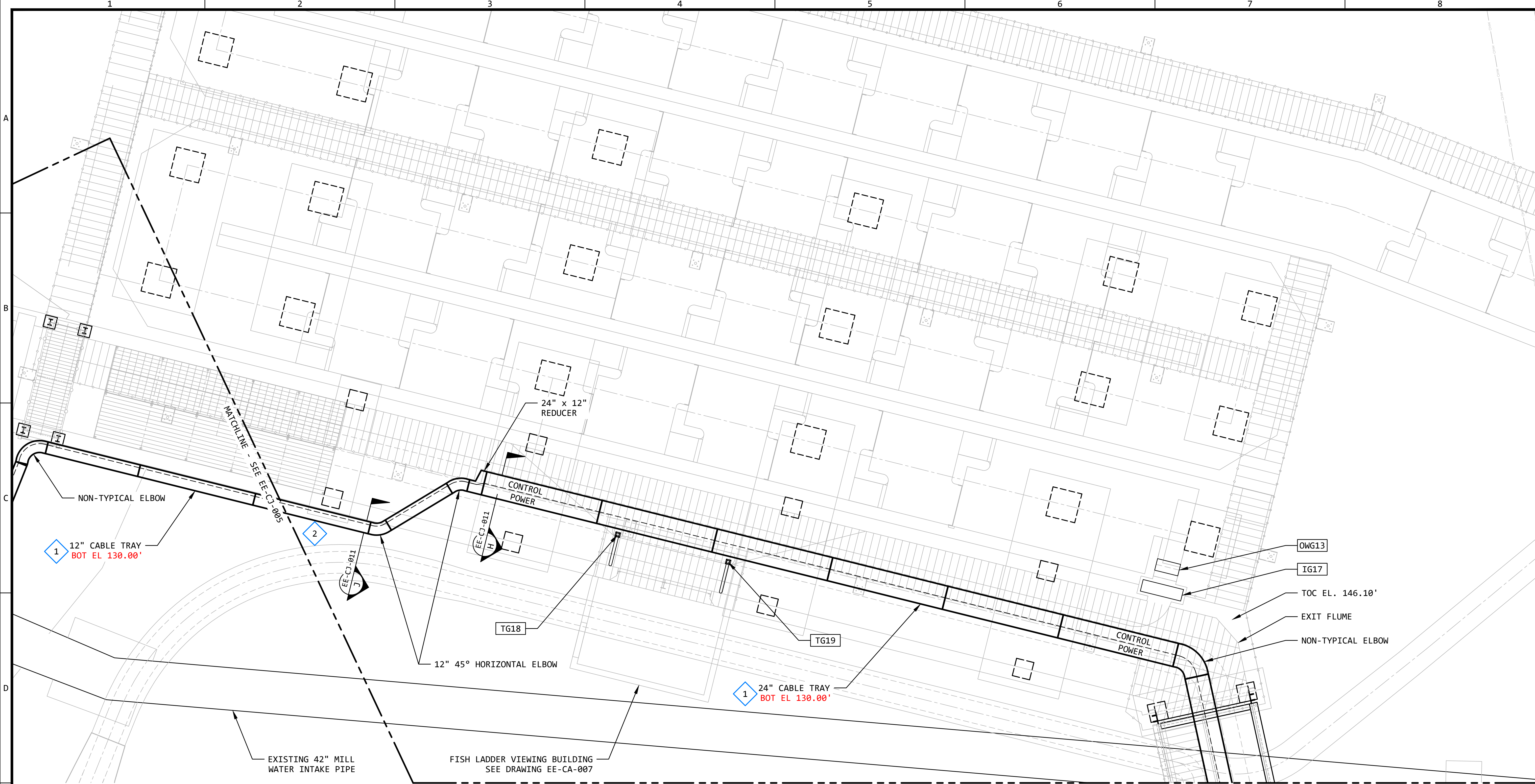
SCALE: 1/4" = 1'-0"

REVISION					
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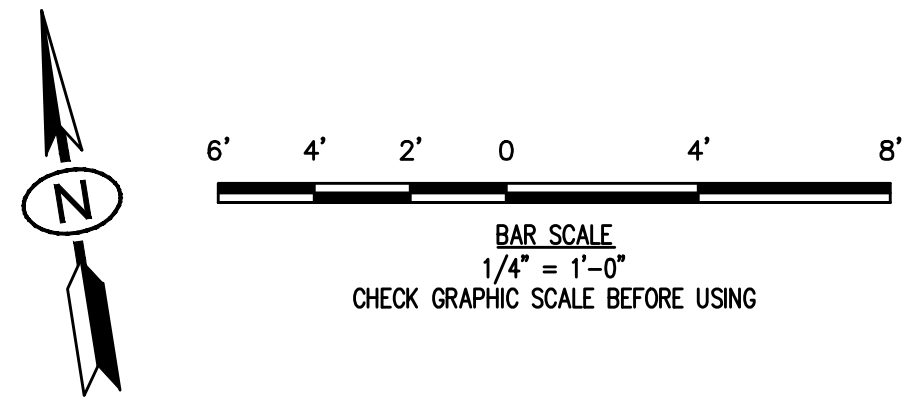
DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ABOVE GRADE RACEWAY PLAN		
CMM	08/22/2024	FISH LIFT CONTROL BUILDING AREA		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CJ-003	0	



ABOVE GRADE RACEWAY PLAN - EXIT FLUME AREA 4
SCALE: 1/4" = 1'-0"

KEYED NOTES:

- 1 THE ELEVATIONS OF THE CABLE TRAY IS YET TO BE DETERMINED. THE ELEVATIONS SHOWN (BOT EL) ARE APPROXIMATE, AND HELP TO IDENTIFY THE TOTAL SCOPE OF THE DESIGN.
- 2 PROVIDE A CABLE TRAY COVER FOR THIS EXPOSED SECTION, FROM WHERE IT KICKS OUT FROM UNDER THE FLUME, ALL THE WAY TO THE END OF TRAY.

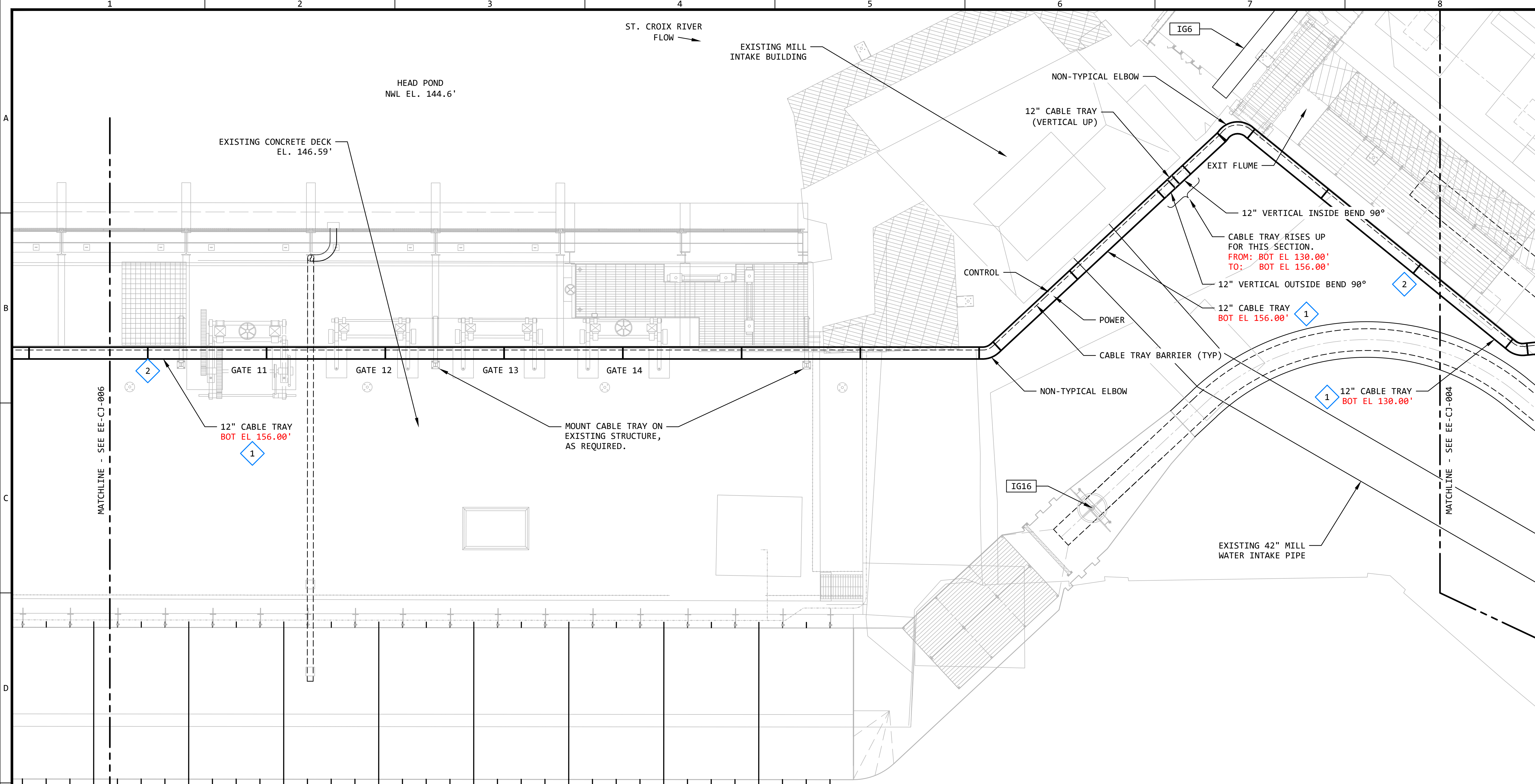


REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
SAM	08/22/2024			
CHECKED BY	DATE	ABOVE GRADE RACEWAY PLAN EXIT FLUME AREA		
CMM	08/22/2024			
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CJ-004	0	



ABOVE GRADE RACEWAY PLAN - DOWNSTREAM BYPASS AREA

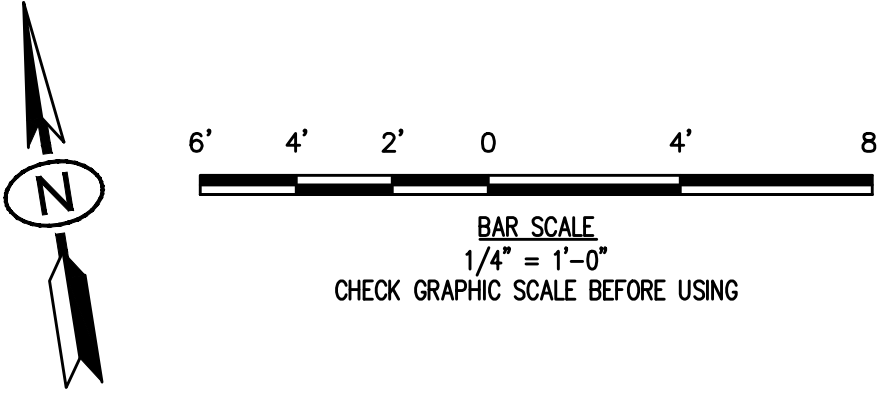
5

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 SCALE: 1/4" = 1'-0"

KEYED NOTES:

- 1
- THE ELEVATIONS OF THE CABLE TRAY IS YET TO BE DETERMINED. THE ELEVATIONS SHOWN (BOT EL) ARE APPROXIMATE, AND HELP TO IDENTIFY THE TOTAL SCOPE OF THE DESIGN.
- 2
- PROVIDE A CABLE TRAY COVER FOR THIS EXPOSED SECTION, FROM WHERE IT KICKS OUT FROM UNDER THE FLUME, ALL THE WAY TO THE END OF TRAY.

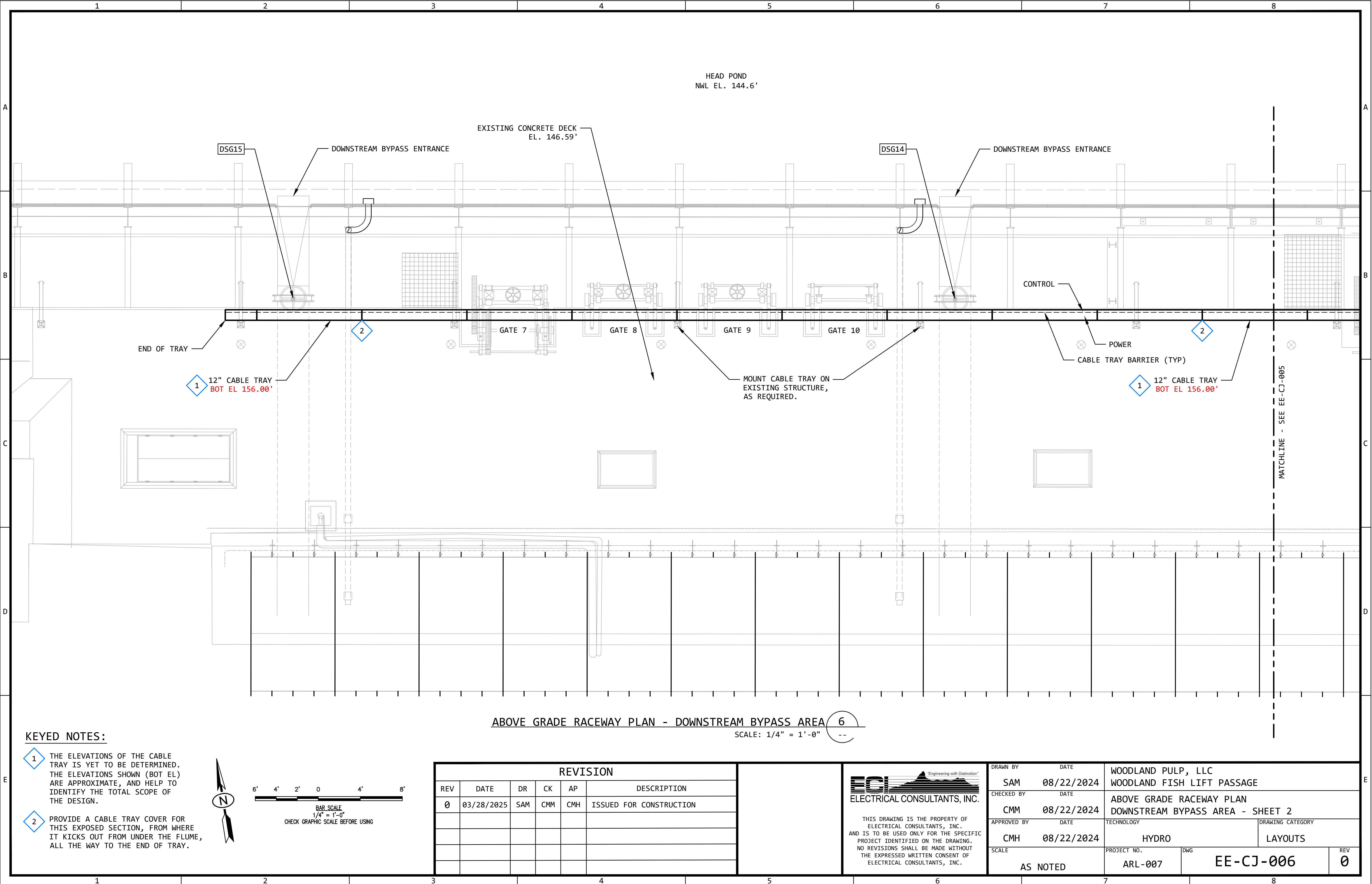


REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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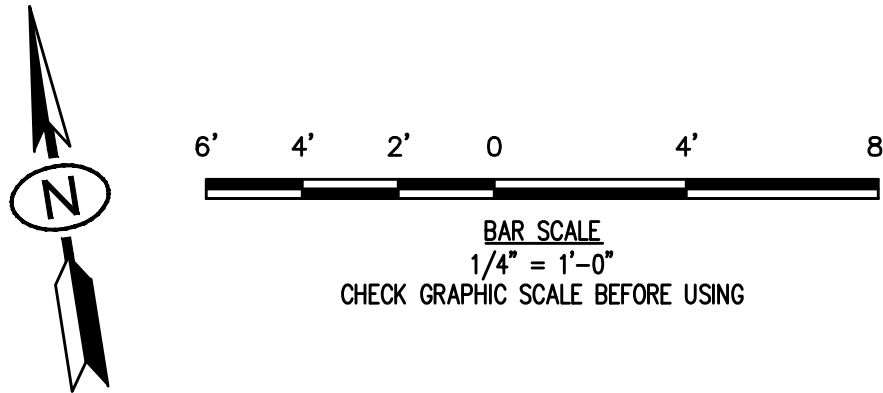
DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ABOVE GRADE RACEWAY PLAN DOWNSTREAM BYPASS AREA - SHEET 1		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CJ-005	0	



6
--
ABOVE GRADE RACEWAY PLAN - DOWNSTREAM BYPASS AREA
SCALE: 1/4" = 1'-0"

KEYED NOTES:

- 1
- THE ELEVATIONS OF THE CABLE TRAY IS YET TO BE DETERMINED. THE ELEVATIONS SHOWN (BOT EL) ARE APPROXIMATE, AND HELP TO IDENTIFY THE TOTAL SCOPE OF THE DESIGN.
- 2
- PROVIDE A CABLE TRAY COVER FOR THIS EXPOSED SECTION, FROM WHERE IT KICKS OUT FROM UNDER THE FLUME, ALL THE WAY TO THE END OF TRAY.



REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

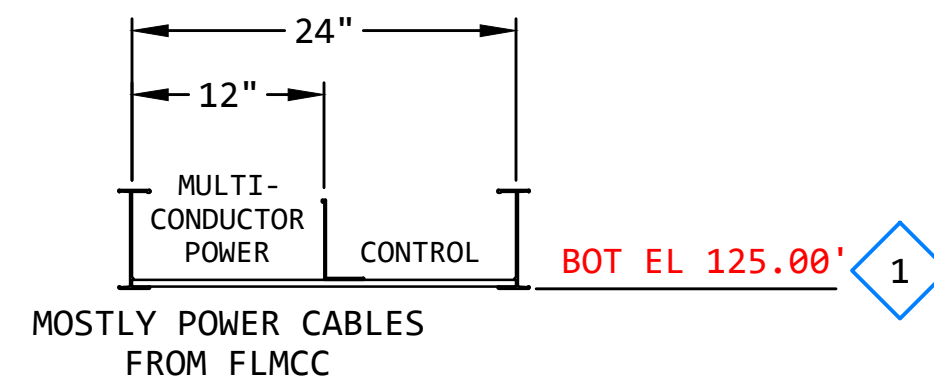


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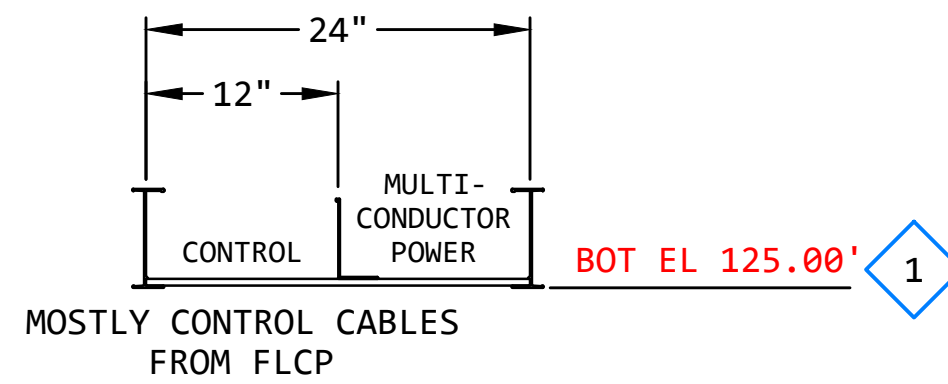
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SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ABOVE GRADE RACEWAY PLAN		
CMM	08/22/2024	DOWNSTREAM BYPASS AREA - SHEET 2		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
AS NOTED	ARL-007	EE-CJ-006	0	

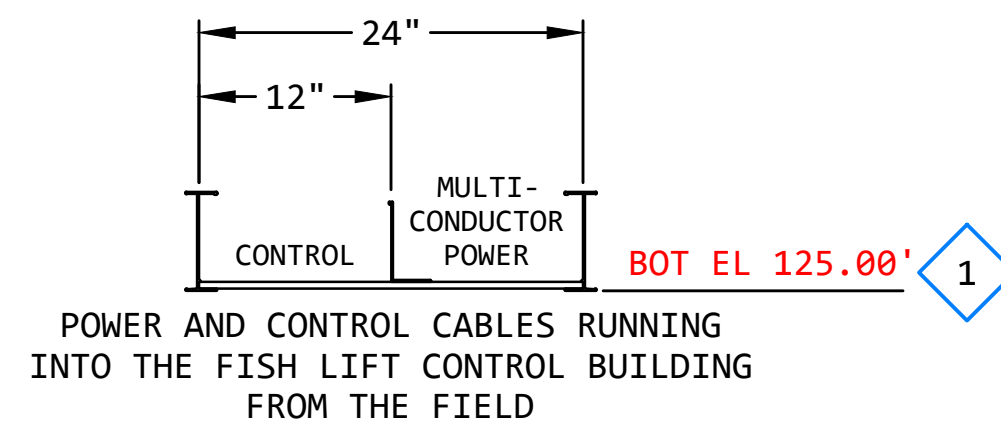


CABLE TRAY SECTION  A

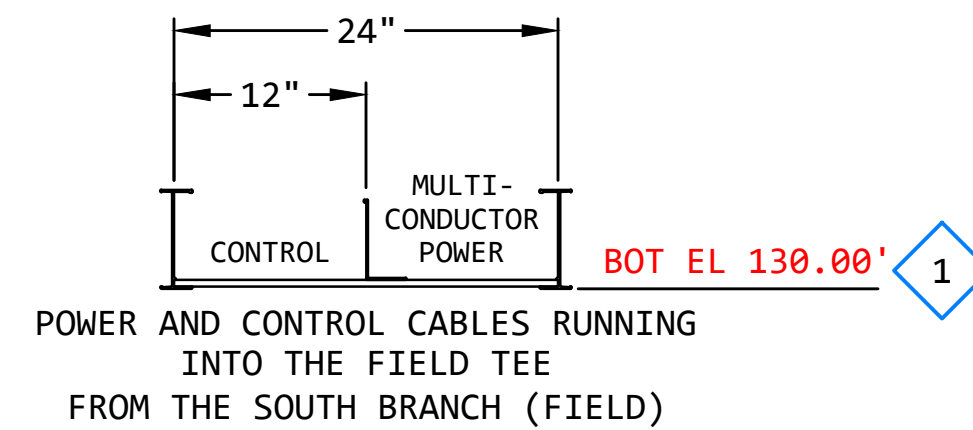
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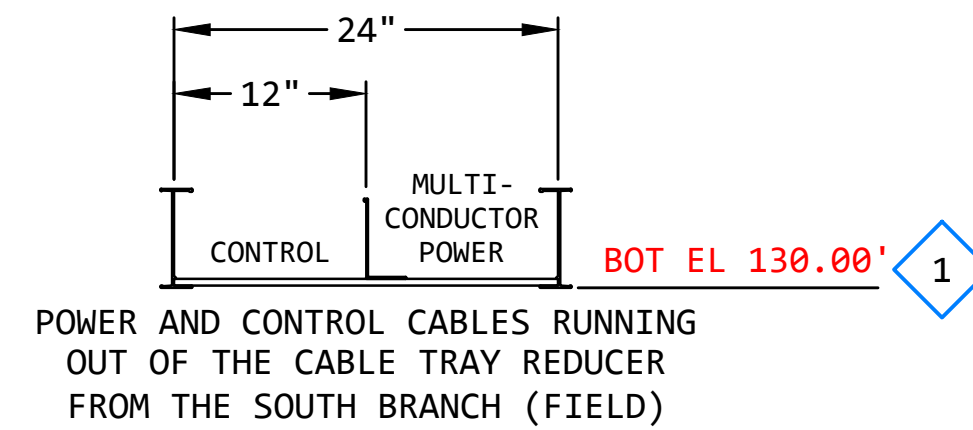
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NO SCALE  EE-CJ-003



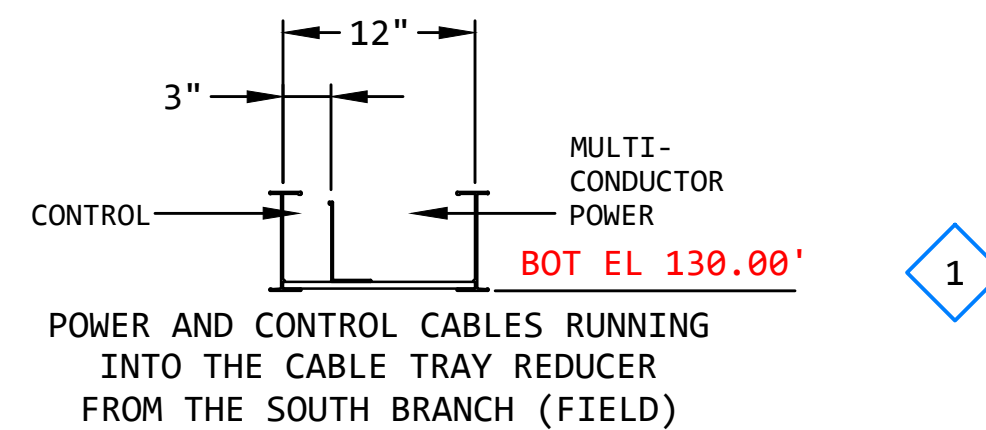
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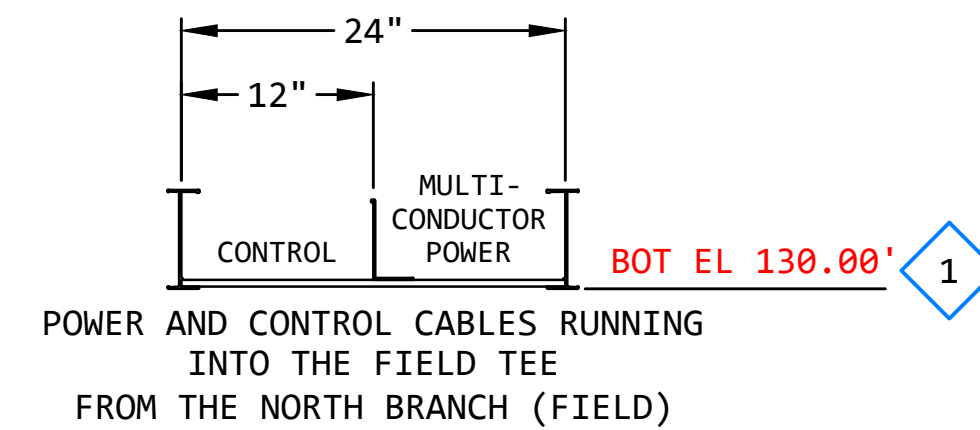
CABLE TRAY SECTION  D
NO SCALE EE-CJ-003



CABLE TRAY SECTION 
NO SCALE EE-CJ-002



CABLE TRAY SECTION  F
NO SCALE  EE-CJ-002

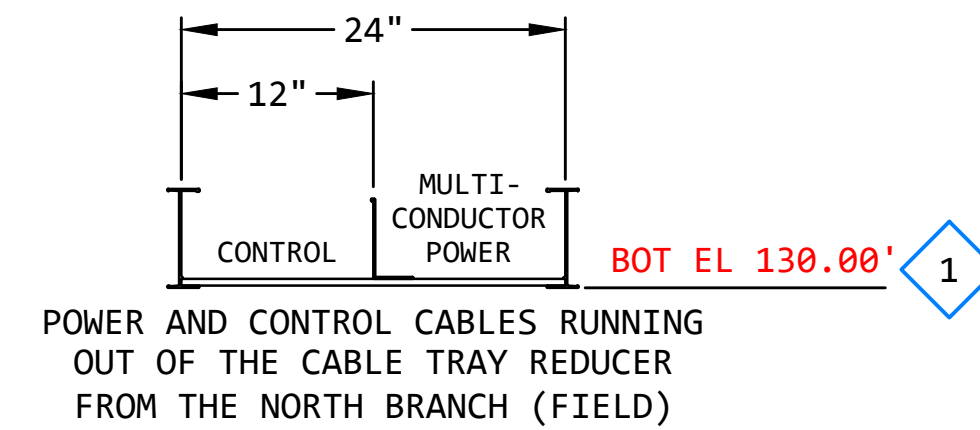


CABLE TRAY SECTION

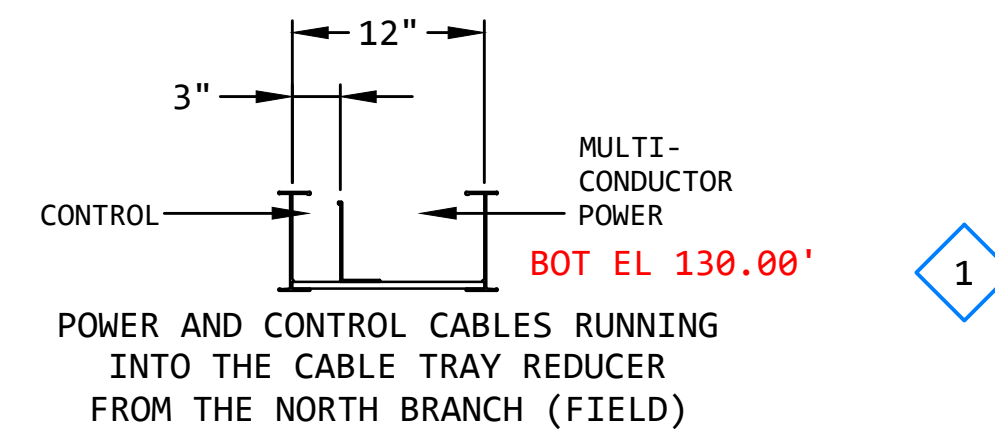
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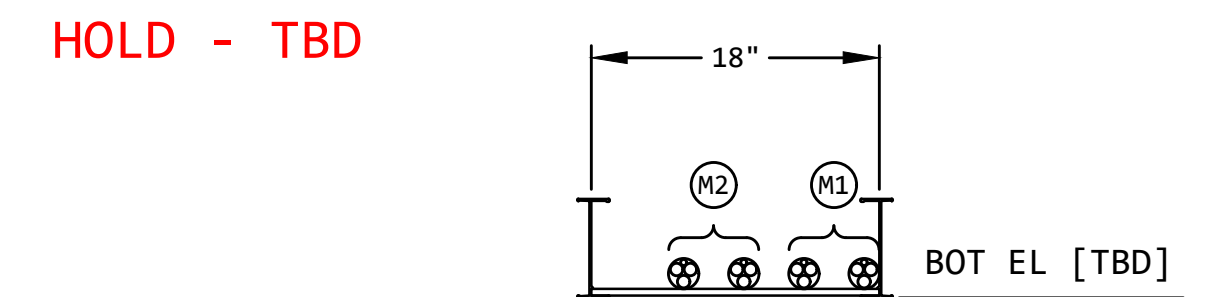
EE-CJ-003



CABLE TRAY SECTION  H
NO SCALE EE-CJ-004



CABLE TRAY SECTION 
NO SCALE EE-CJ-004



CABLE TRAY SECTION

NO SCALE

M
TBD

LARGE CABLE IDENTIFICATION - CABLE TRAY SECTION "M"				
CABLE ID	CABLE No.	SIZE AND TYPE	SERVICE	COMMENTS
Ⓜ2	C1721-MTS1-P	(2) SETS OF: 3C #4/0 W/GND	MTS1 MANUAL TRANSFER SWITCH No.1	PRIMARY MILL SOURCE
Ⓜ2	TBDA-MTS1-P	(2) SETS OF: 3C #4/0 W/GND	MTS1 MANUAL TRANSFER SWITCH No.1	ALTERNATE MILL SOURCE

KEYED NOTES:

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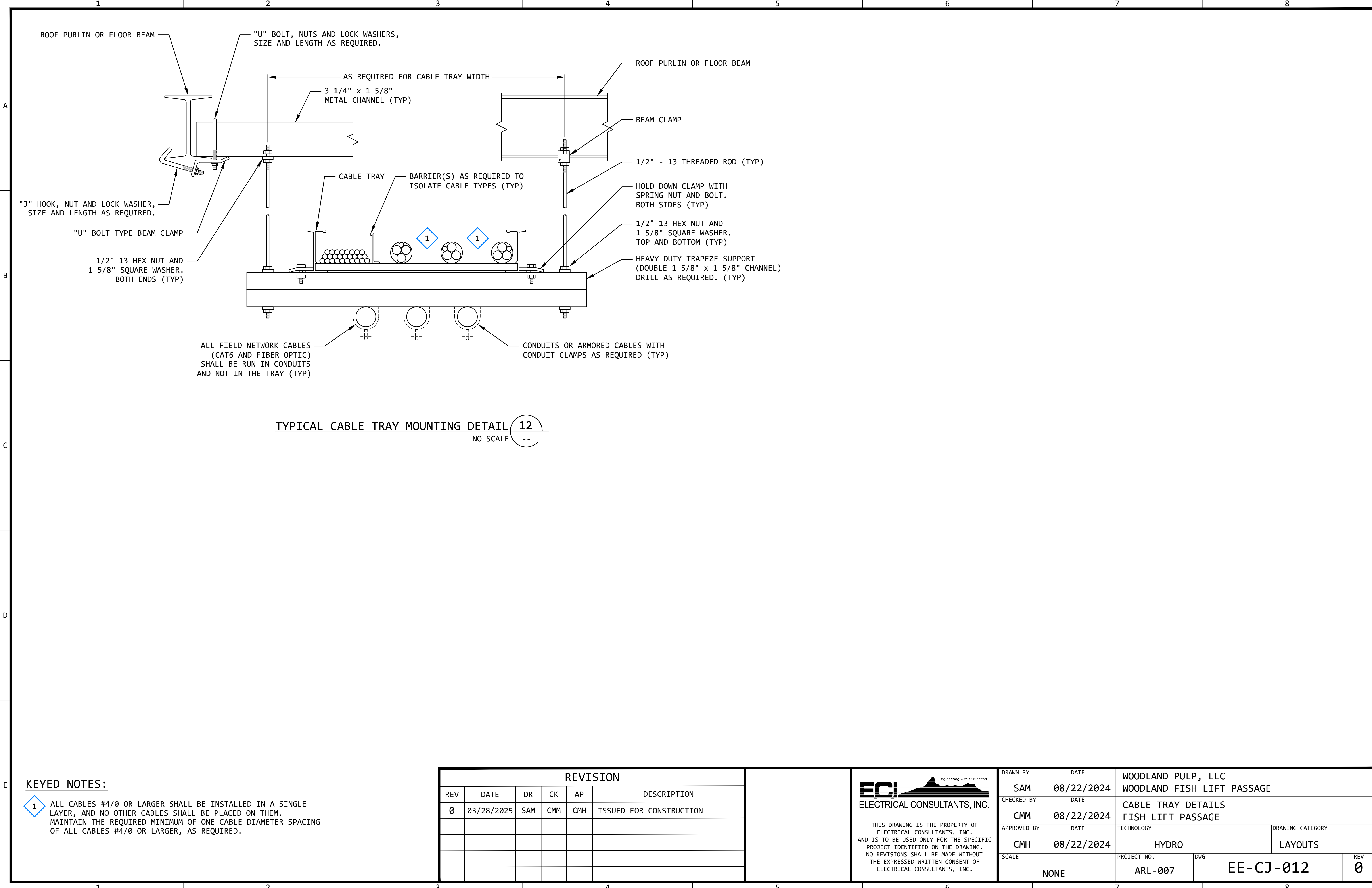
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
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DRAWN BY SAM	DATE 08/22/2024	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY CMM	DATE 08/22/2024	CABLE TRAY SECTIONS FISH LIFT PASSAGE		
APPROVED BY CMH	DATE 08/22/2024	TECHNOLOGY HYDRO	DRAWING CATEGORY LAYOUTS	
SCALE NONE	PROJECT NO. ARL-007	DWG EE-CJ-011	REV 0	



TYPICAL CABLE TRAY MOUNTING DETAIL 12
NO SCALE --

KEYED NOTES:

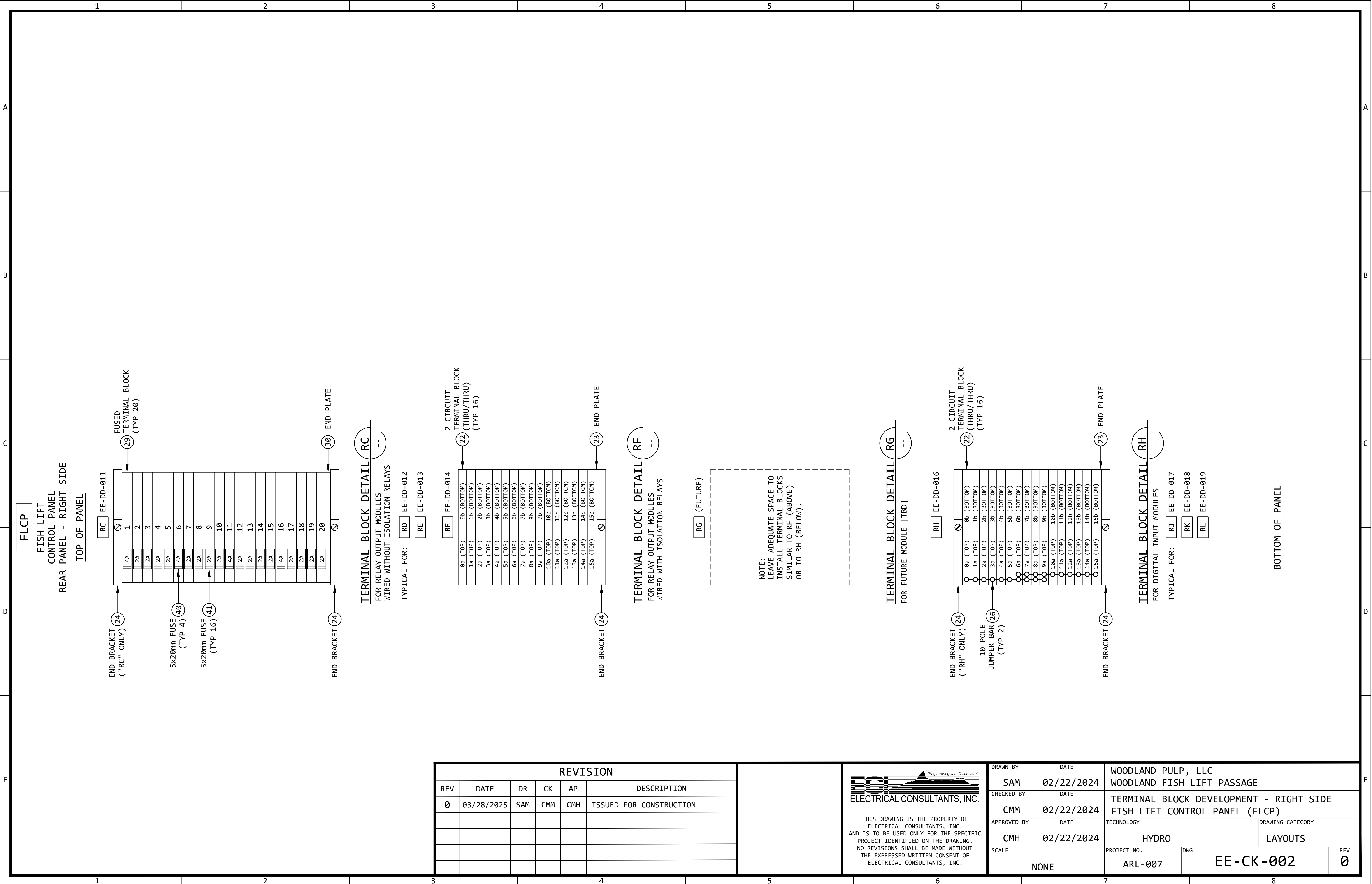
1 ALL CABLES #4/0 OR LARGER SHALL BE INSTALLED IN A SINGLE LAYER, AND NO OTHER CABLES SHALL BE PLACED ON THEM. MAINTAIN THE REQUIRED MINIMUM OF ONE CABLE DIAMETER SPACING OF ALL CABLES #4/0 OR LARGER, AS REQUIRED.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
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DRAWN BY		DATE		WOODLAND PULP, LLC	
SAM		08/22/2024		WOODLAND FISH LIFT PASSAGE	
CHECKED BY		DATE		CABLE TRAY DETAILS	
CMM		08/22/2024		FISH LIFT PASSAGE	
APPROVED BY		DATE		TECHNOLOGY	DRAWING CATEGORY
CMH		08/22/2024		HYDRO	LAYOUTS
SCALE		PROJECT NO.		DWG	REV
NONE		ARL-007		EE-CJ-012	0



REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

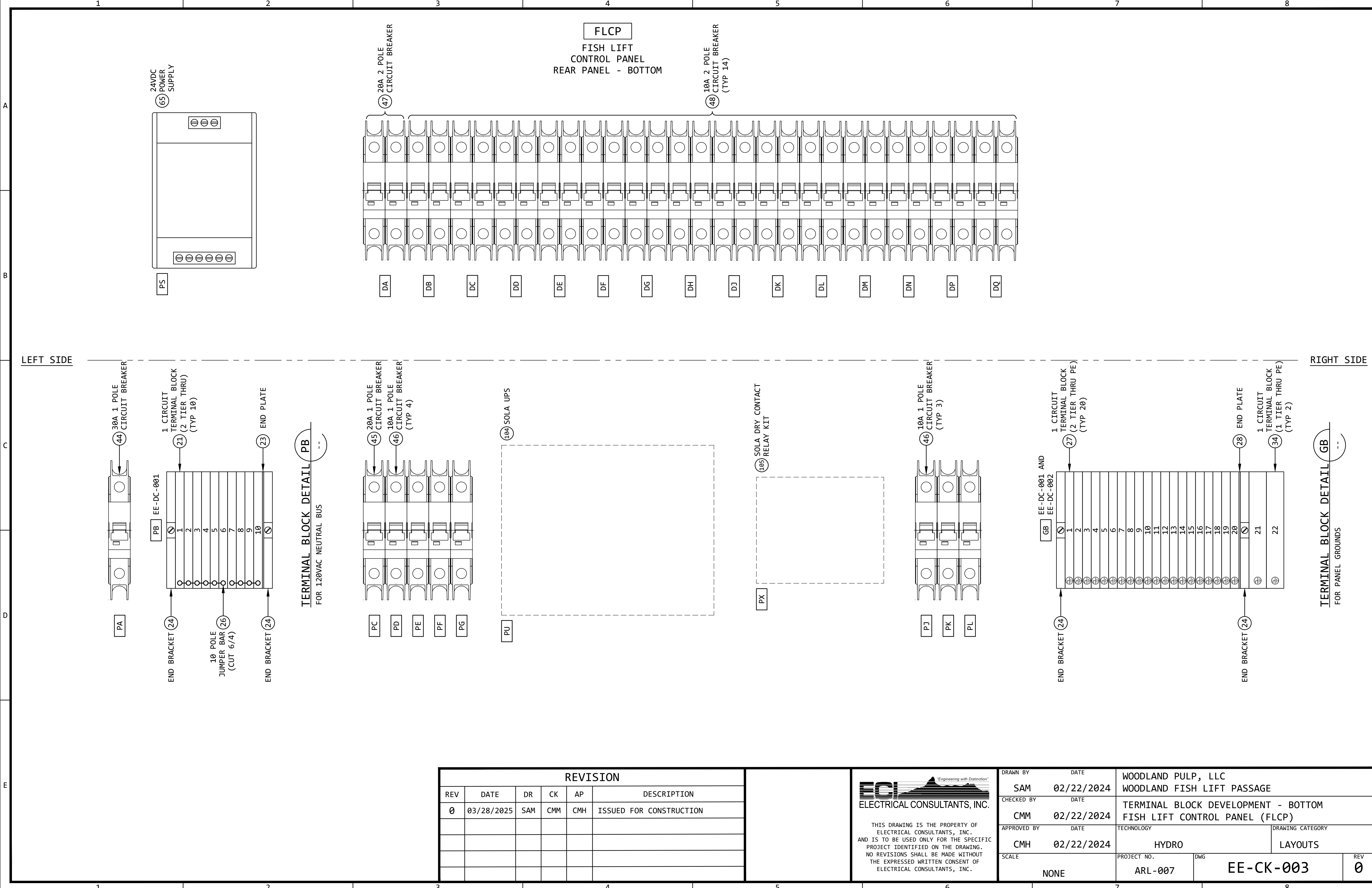
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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	TERMINAL BLOCK DEVELOPMENT - RIGHT SIDE FISH LIFT CONTROL PANEL (FLCP)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-CK-002	0	



LEFT SIDE

RIGHT SIDE

TERMINAL BLOCK DETAIL PB
FOR 120VAC NEUTRAL BUS

TERMINAL BLOCK DETAIL GB
FOR PANEL GROUNDS

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

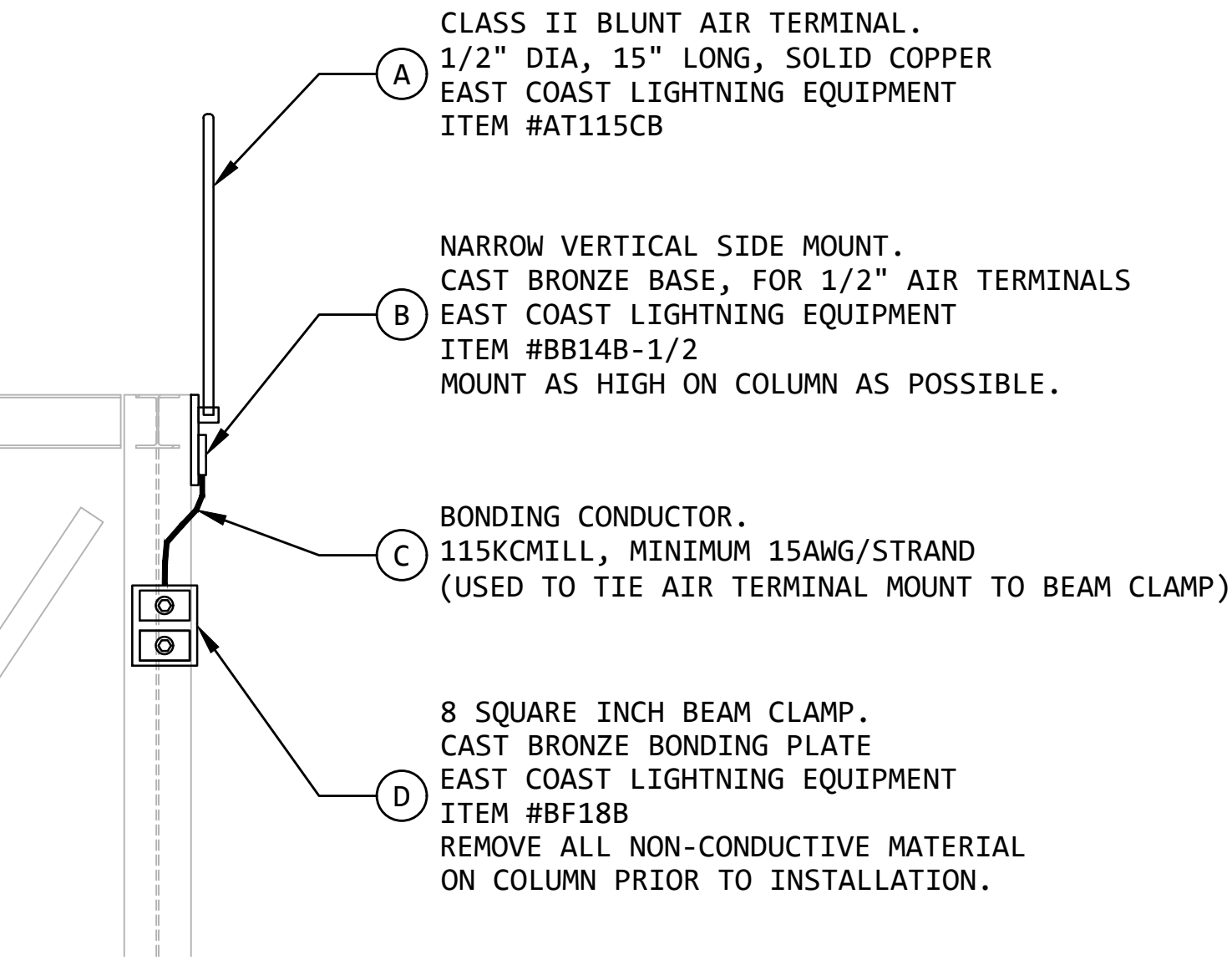


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DRAWN BY SAM		DATE 02/22/2024		WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE	
CHECKED BY CMM		DATE 02/22/2024		TERMINAL BLOCK DEVELOPMENT - BOTTOM FISH LIFT CONTROL PANEL (FLCP)	
APPROVED BY CMH		DATE 02/22/2024		TECHNOLOGY HYDRO	DRAWING CATEGORY LAYOUTS
SCALE NONE		PROJECT NO. ARL-007		DWG EE-CK-003	REV 0

GENERAL NOTES:

1. THE COMPLETED INSTALLATION SHALL MEET NFPA 780, STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS.
2. ALUMINUM LIGHTNING PROTECTION SYSTEM COMPONENTS SHALL NOT BE MOUNTED TO COPPER SURFACES. COPPER COMPONENTS SHALL BE USED TO AVOID ELECTROLYTIC CORROSION.
3. AIR TERMINALS ARE TO BE LOCATED AS SHOWN. THEY ARE TO BE A MAXIMUM OF 24" FROM THE ROOF EDGE AND PROJECT A MINIMUM OF 10" ABOVE THE PROTECTED EDGE. THE SPACING BETWEEN AIR TERMINALS ARE NOT TO EXCEED 20 FEET.
4. ALL LIGHTING CONDUCTORS ARE TO MAINTAIN A HORIZONTAL OR DOWNWARD PATH. ALL BENDS IN THE CONDUCTOR SHALL HAVE A RADIUS BEND OF 8 INCHES OR GREATER, AND SHALL HAVE AN ANGLE BEND OF 90 DEGREES OR GREATER.



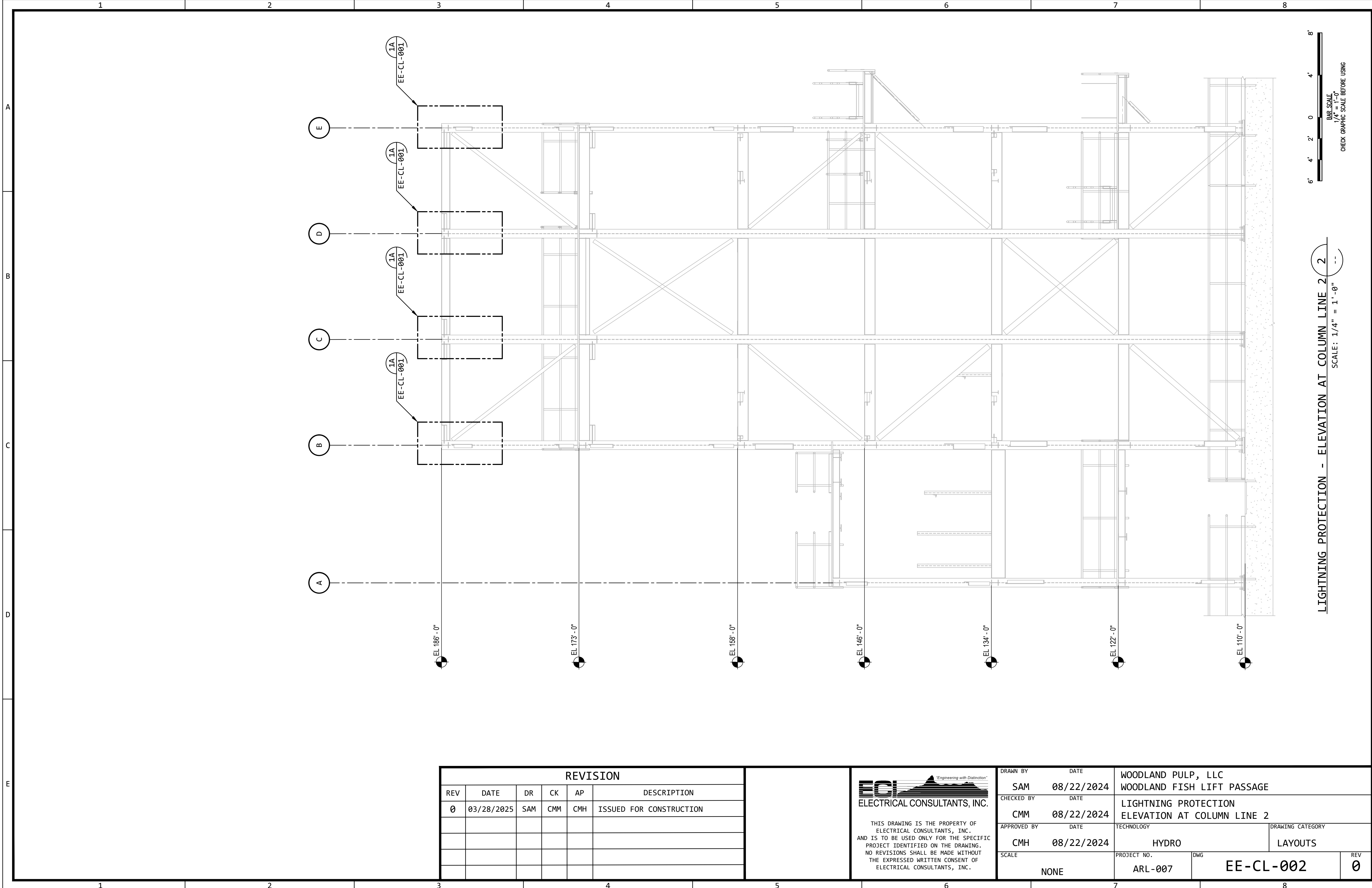
LIGHTNING PROTECTION DETAIL 1A
SCALE: NONE

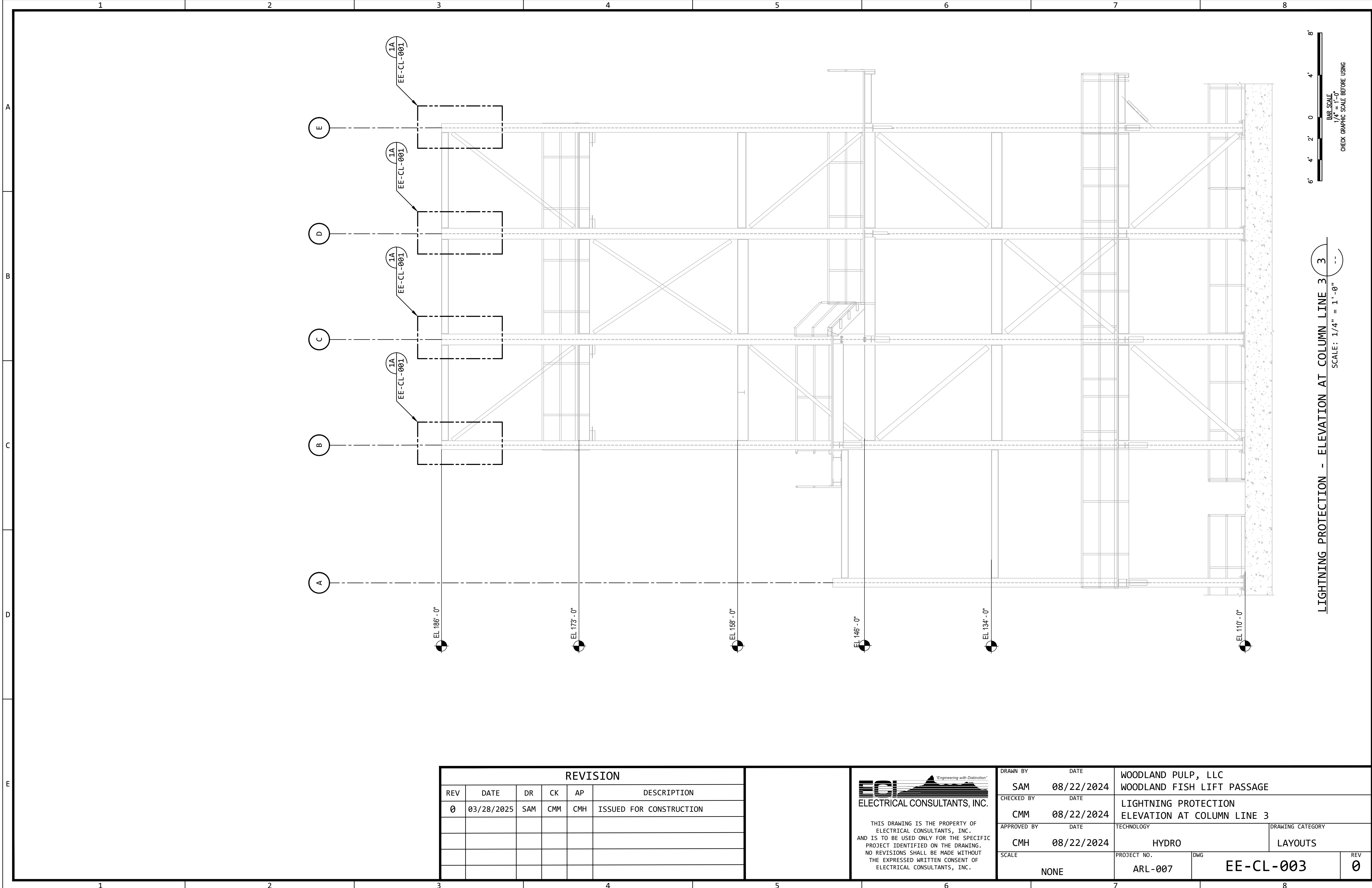
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

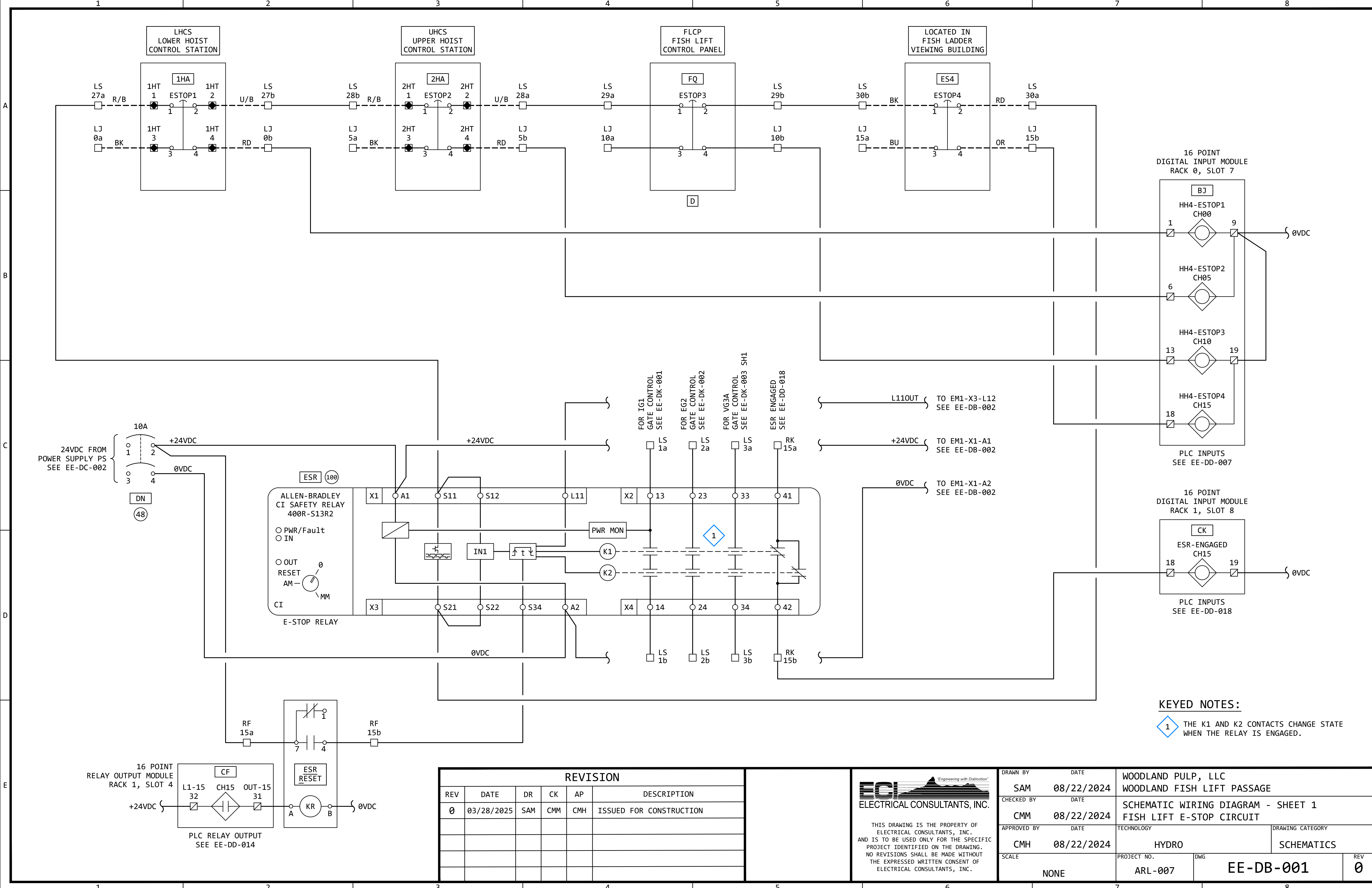


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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	LIGHTNING PROTECTION ELEVATION AT COLUMN LINE 1		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	LAYOUTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-CL-001	0	







KEYED NOTES:

1 THE K1 AND K2 CONTACTS CHANGE STATE WHEN THE RELAY IS ENGAGED.

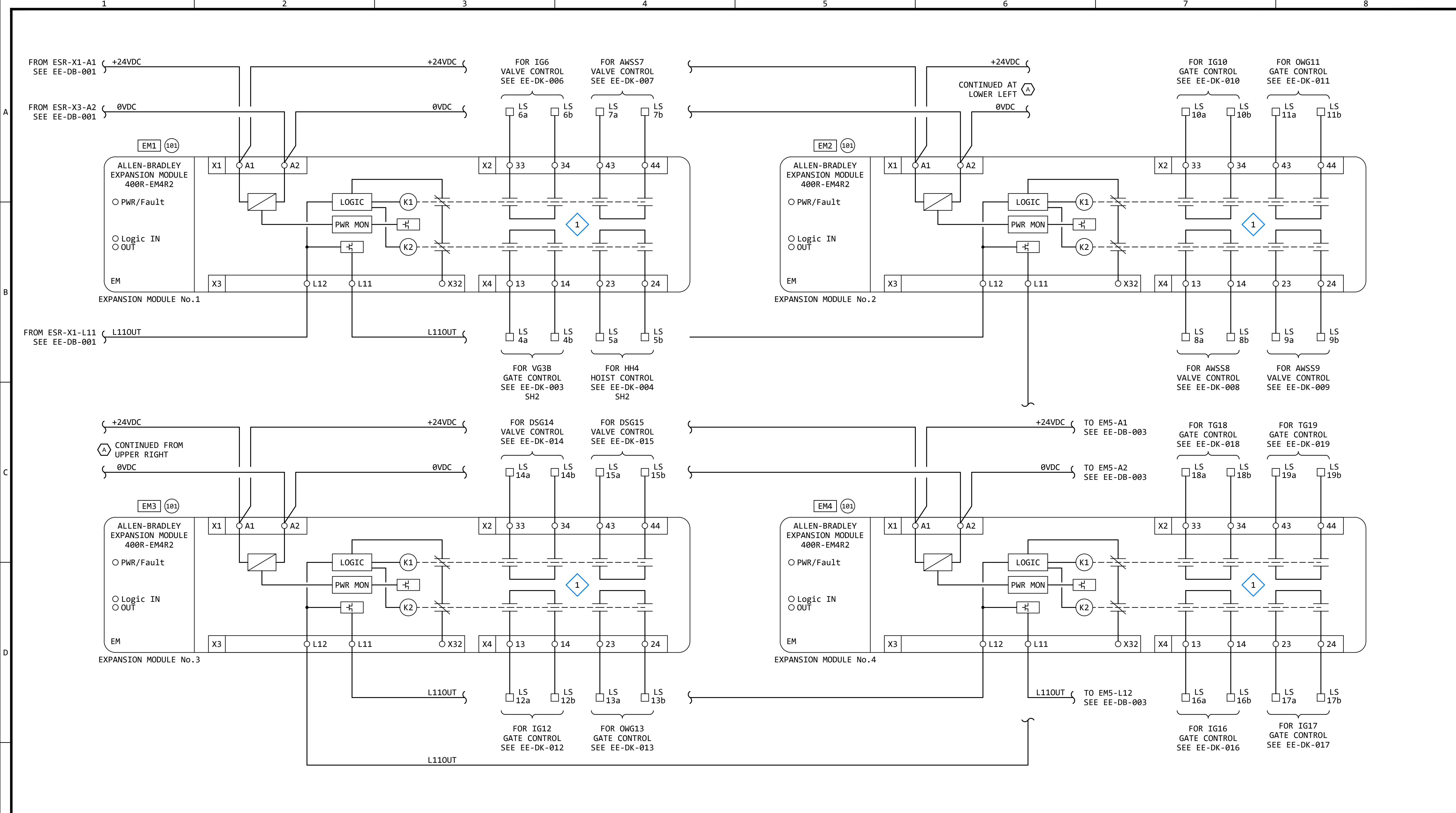
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	SCHEMATIC WIRING DIAGRAM - SHEET 1		
CMM	08/22/2024	FISH LIFT E-STOP CIRCUIT		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DB-001	0	



KEYED NOTES:

1 THE K1 AND K2 CONTACTS CHANGE STATE WHEN THE RELAY IS ENGAGED.

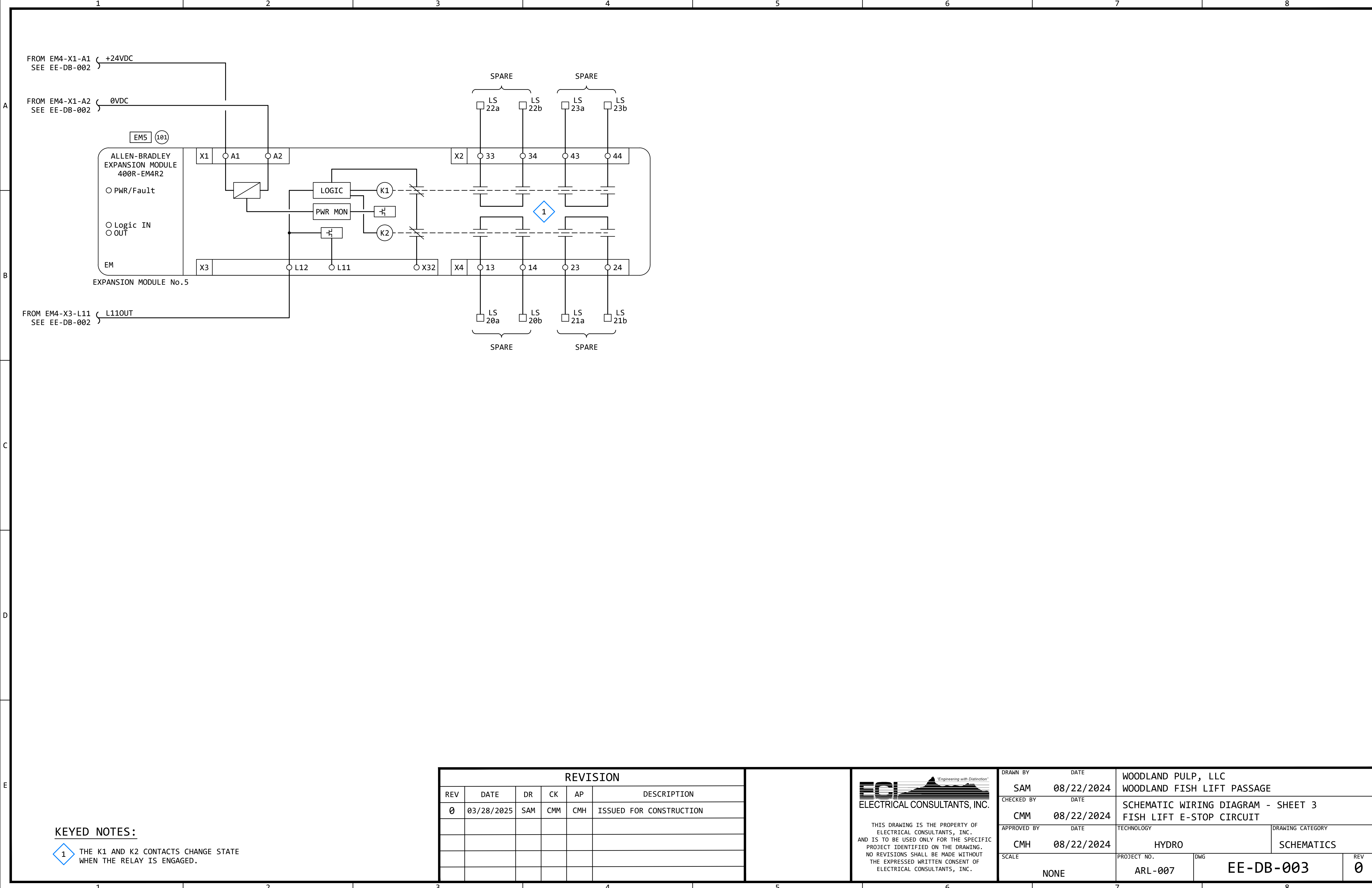
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	SCHEMATIC WIRING DIAGRAM - SHEET 2		
CMM	08/22/2024	FISH LIFT E-STOP CIRCUIT		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DB-002	0	



KEYED NOTES:

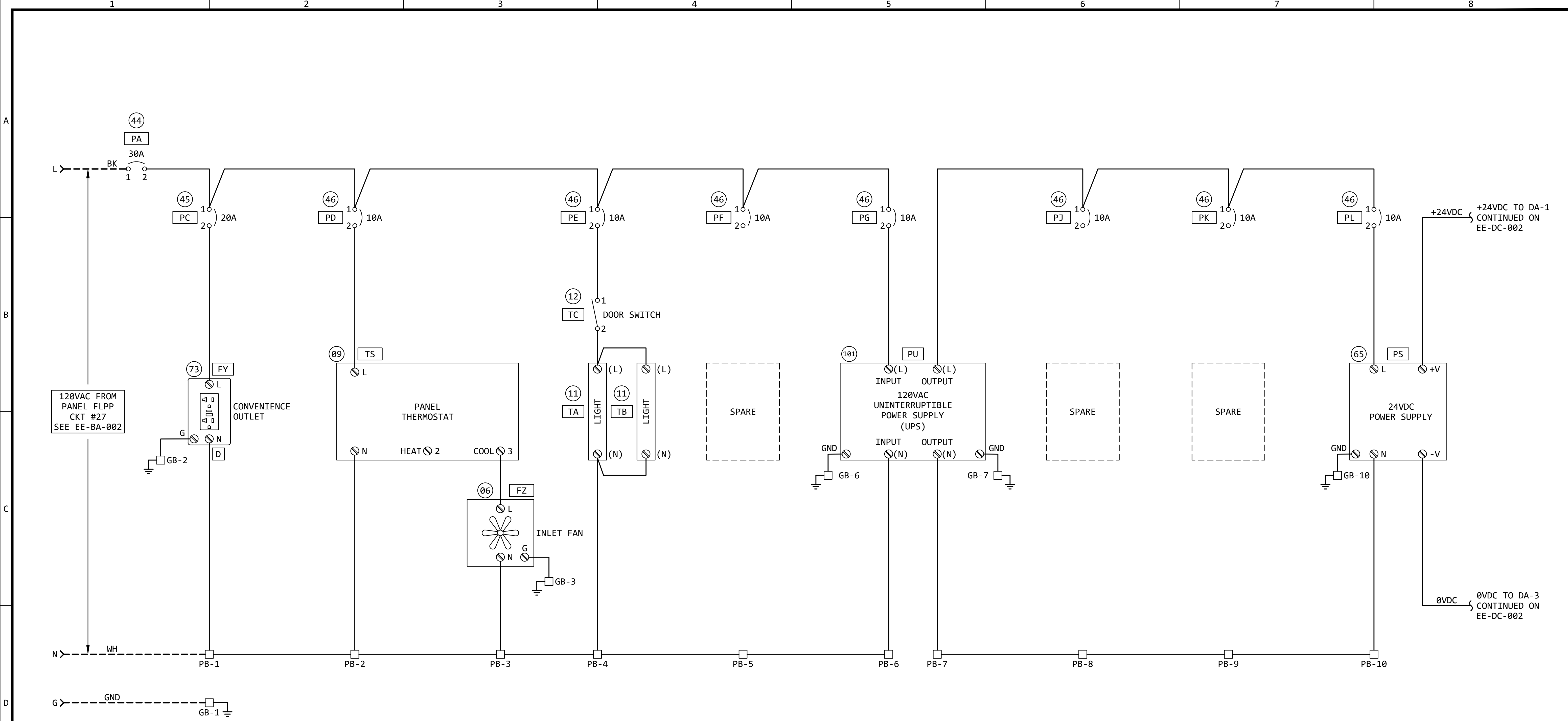
1 THE K1 AND K2 CONTACTS CHANGE STATE WHEN THE RELAY IS ENGAGED.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	SCHEMATIC WIRING DIAGRAM - SHEET 3 FISH LIFT E-STOP CIRCUIT		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DB-003	0	



120VAC CONTROL POWER DISTRIBUTION - FISH LIFT CONTROL PANEL (FLCP)

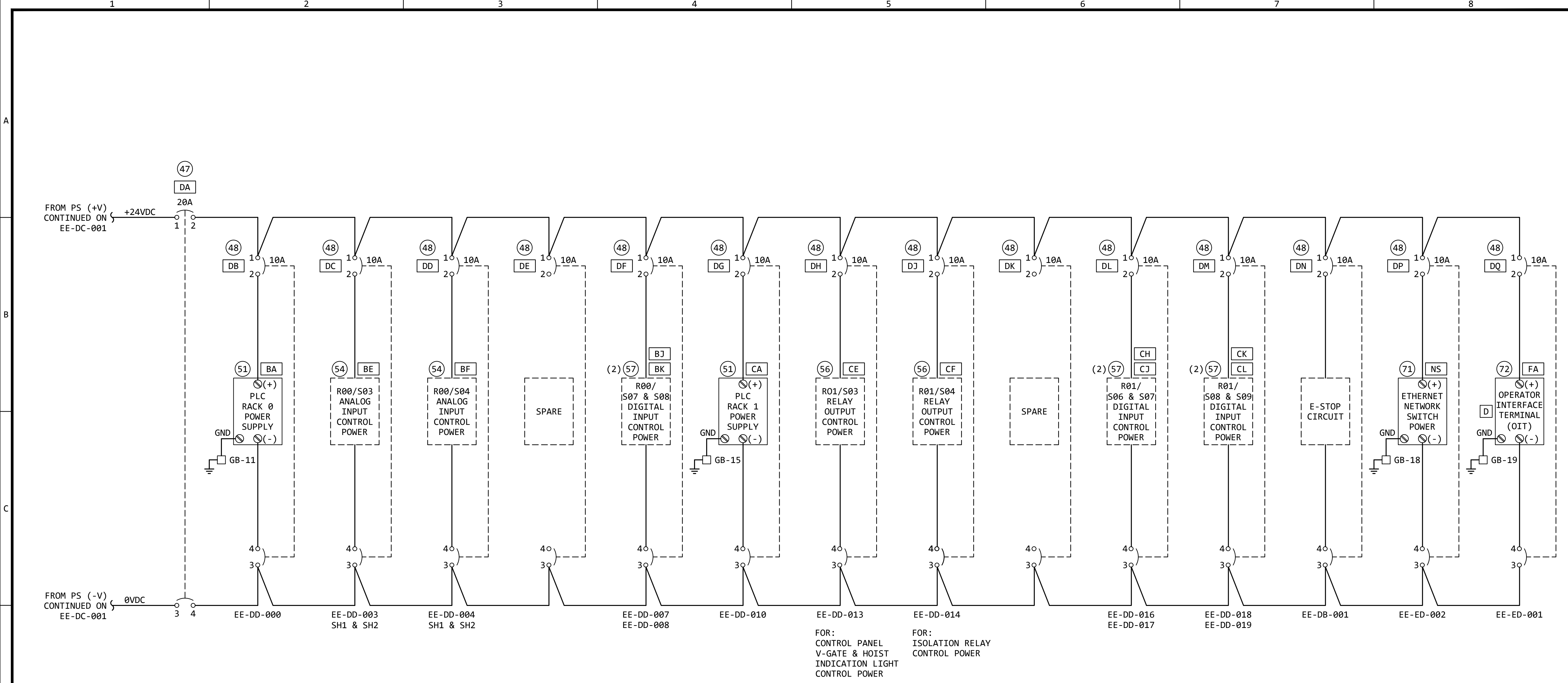
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE			
CHECKED BY	DATE	120VAC CONTROL POWER DISTRIBUTION FISH LIFT CONTROL PANEL (FLCP)			
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY		
CMH	02/22/2024	HYDRO	SCHEMATICS		
SCALE	PROJECT NO.	DWG	REV		
NONE	ARL-007	EE-DC-001	0		



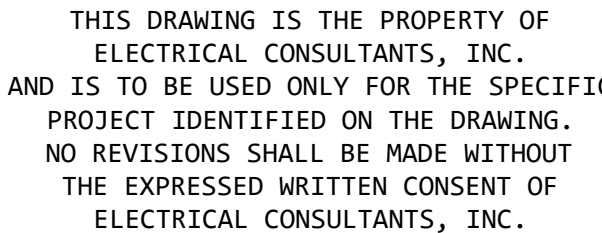
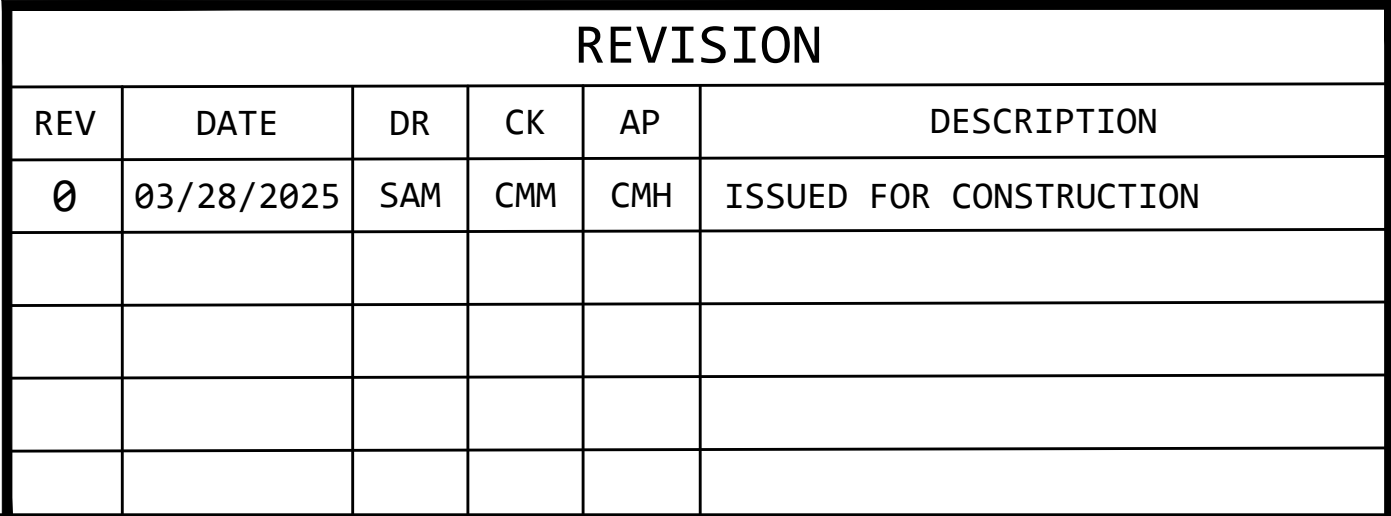
24VDC POWER DISTRIBUTION - FISH LIFT CONTROL PANEL (FLCP)

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

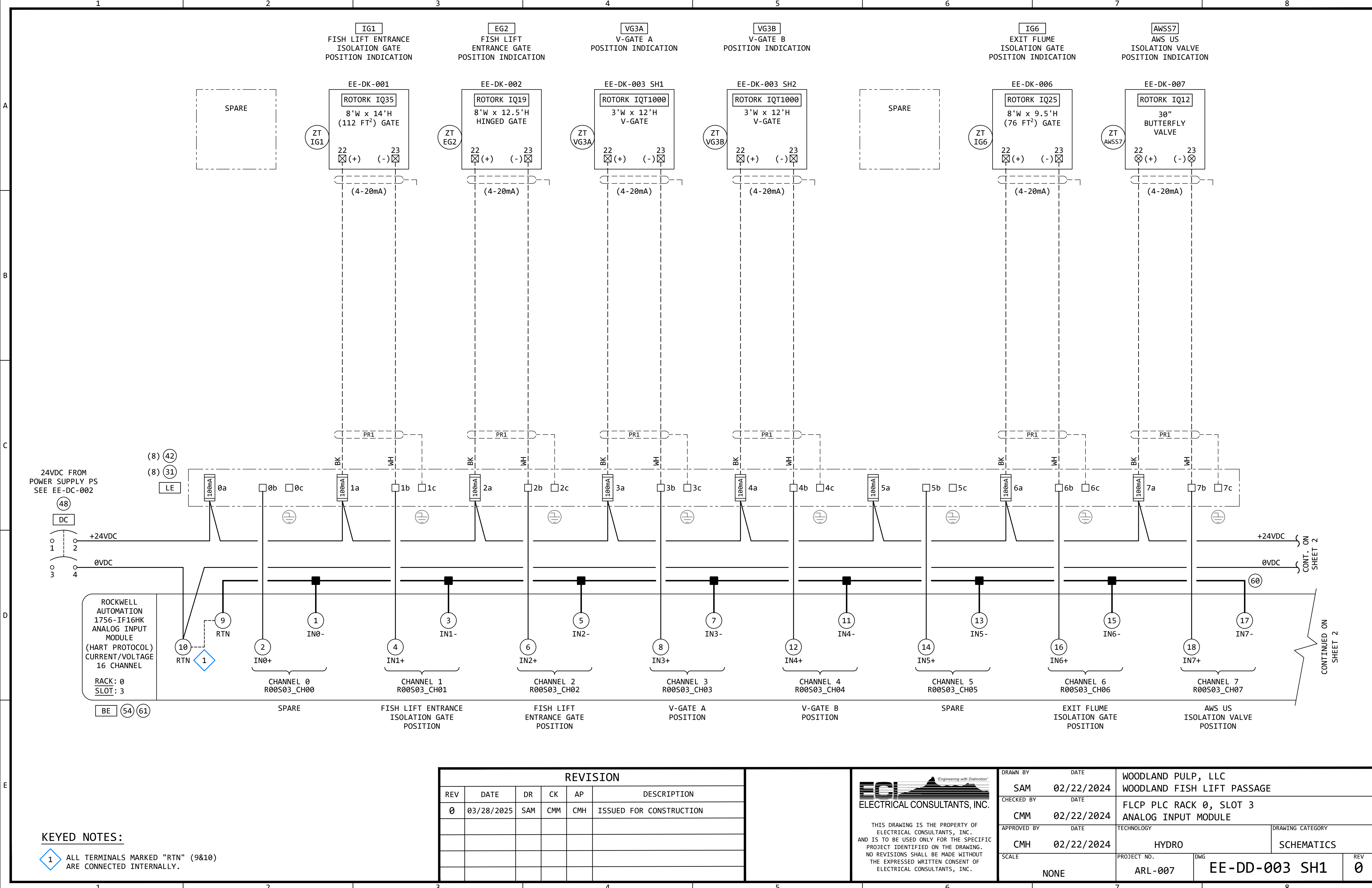


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DRAWN BY		DATE		WOODLAND PULP, LLC	
SAM		02/22/2024		WOODLAND FISH LIFT PASSAGE	
CHECKED BY		DATE		24VDC CONTROL POWER DISTRIBUTION	
CMM		02/22/2024		FISH LIFT CONTROL PANEL (FLCP)	
APPROVED BY		DATE		TECHNOLOGY	DRAWING CATEGORY
CMH		02/22/2024		HYDRO	SCHEMATICS
SCALE		PROJECT NO.		DWG	REV
NONE		ARL-007		EE-DC-002	0



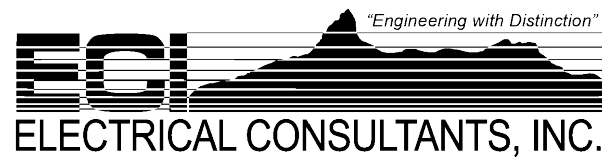
DRAWN BY SAM		DATE 02/22/2024		WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE	
CHECKED BY CMM		DATE 02/22/2024		FLCP PLC RACK 0, SLOT 0 POWER SUPPLY AND CPU	
APPROVED BY CMH		DATE 02/22/2024		TECHNOLOGY HYDRO	DRAWING CATEGORY SCHEMATICS
SCALE NONE		PROJECT NO. ARL-007	DWG EE-DD-000		
			REV 0		



KEYED NOTES:

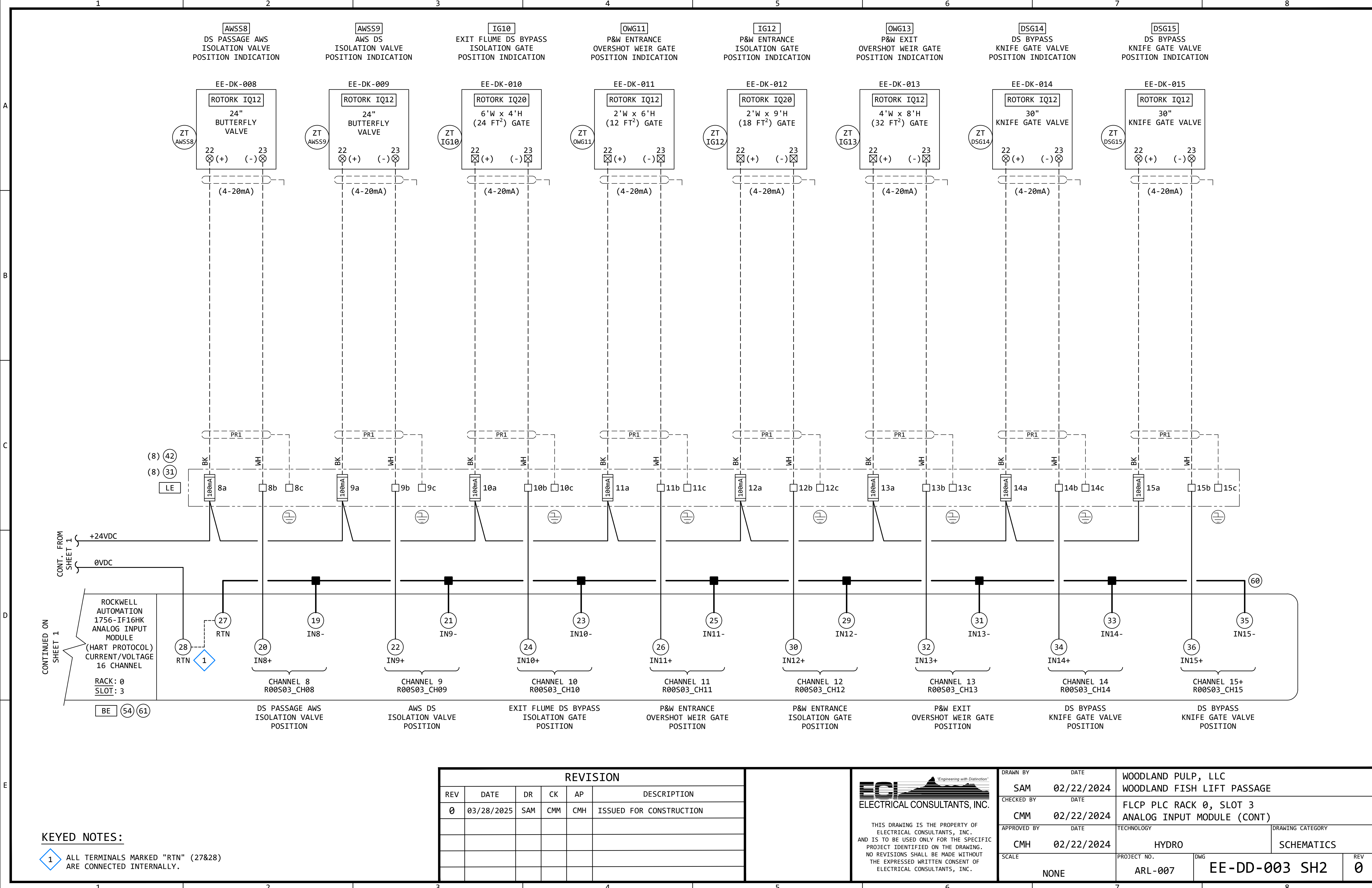
- 1 ALL TERMINALS MARKED "RTN" (9&10) ARE CONNECTED INTERNALLY.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	FLCP PLC RACK 0, SLOT 3 ANALOG INPUT MODULE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DD-003 SH1	0	



KEYED NOTES:

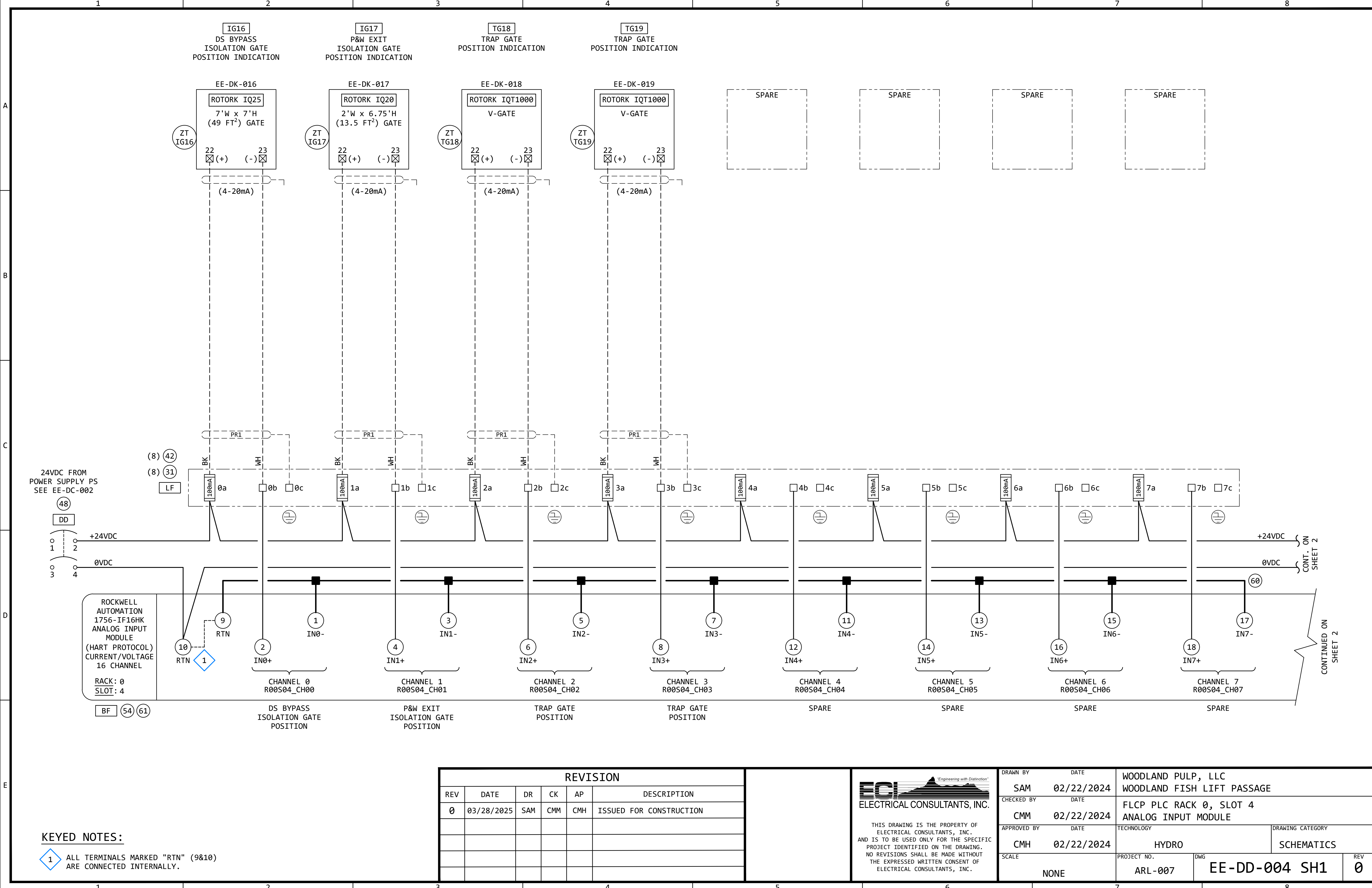
- 1 ALL TERMINALS MARKED "RTN" (27&28) ARE CONNECTED INTERNALLY.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	02/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	FLCP PLC RACK 0, SLOT 3		
CMM	02/22/2024	ANALOG INPUT MODULE (CONT)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DD-003 SH2	0	



KEYED NOTES:

- 1 ALL TERMINALS MARKED "RTN" (9&10) ARE CONNECTED INTERNALLY.

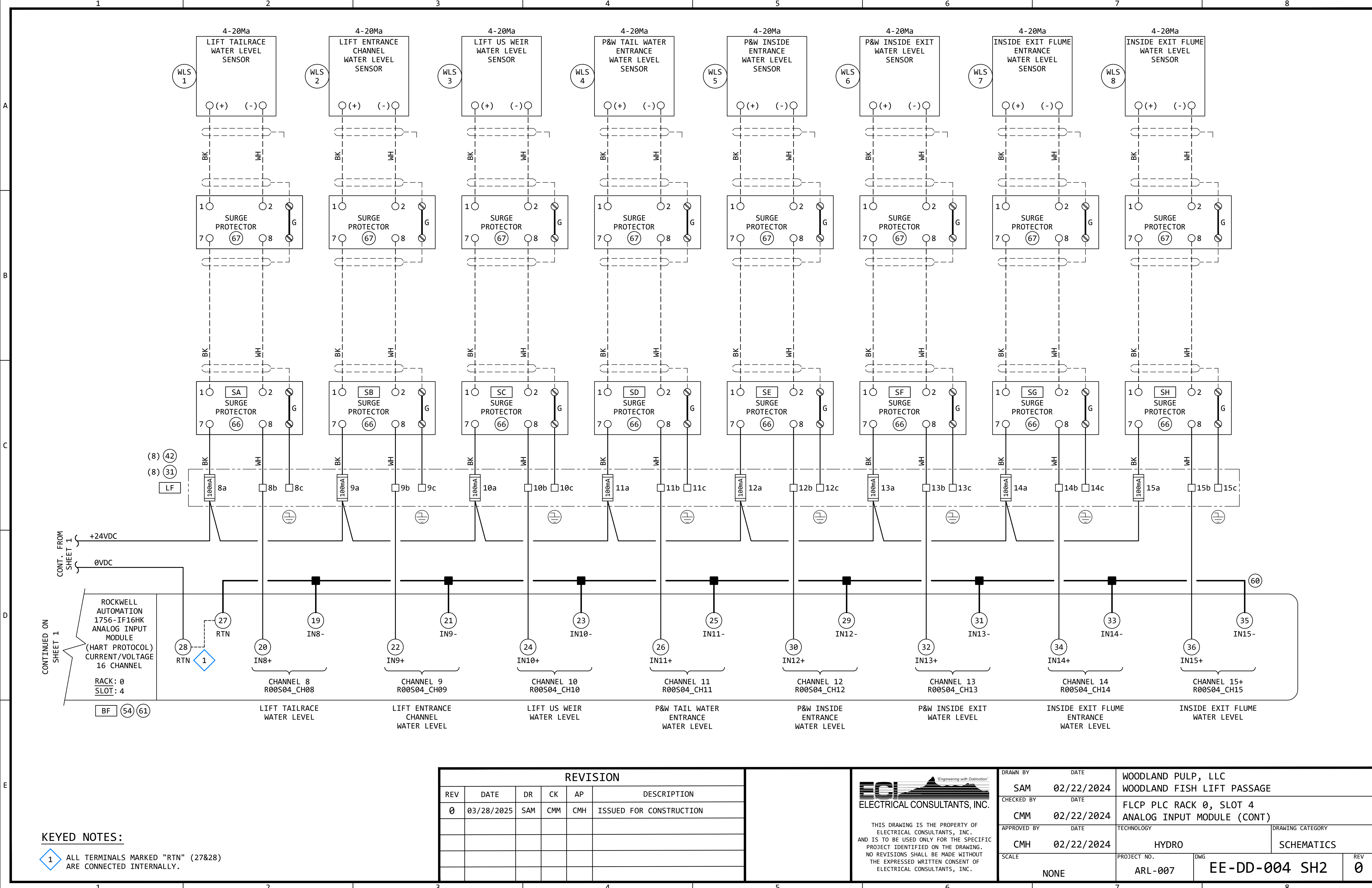
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

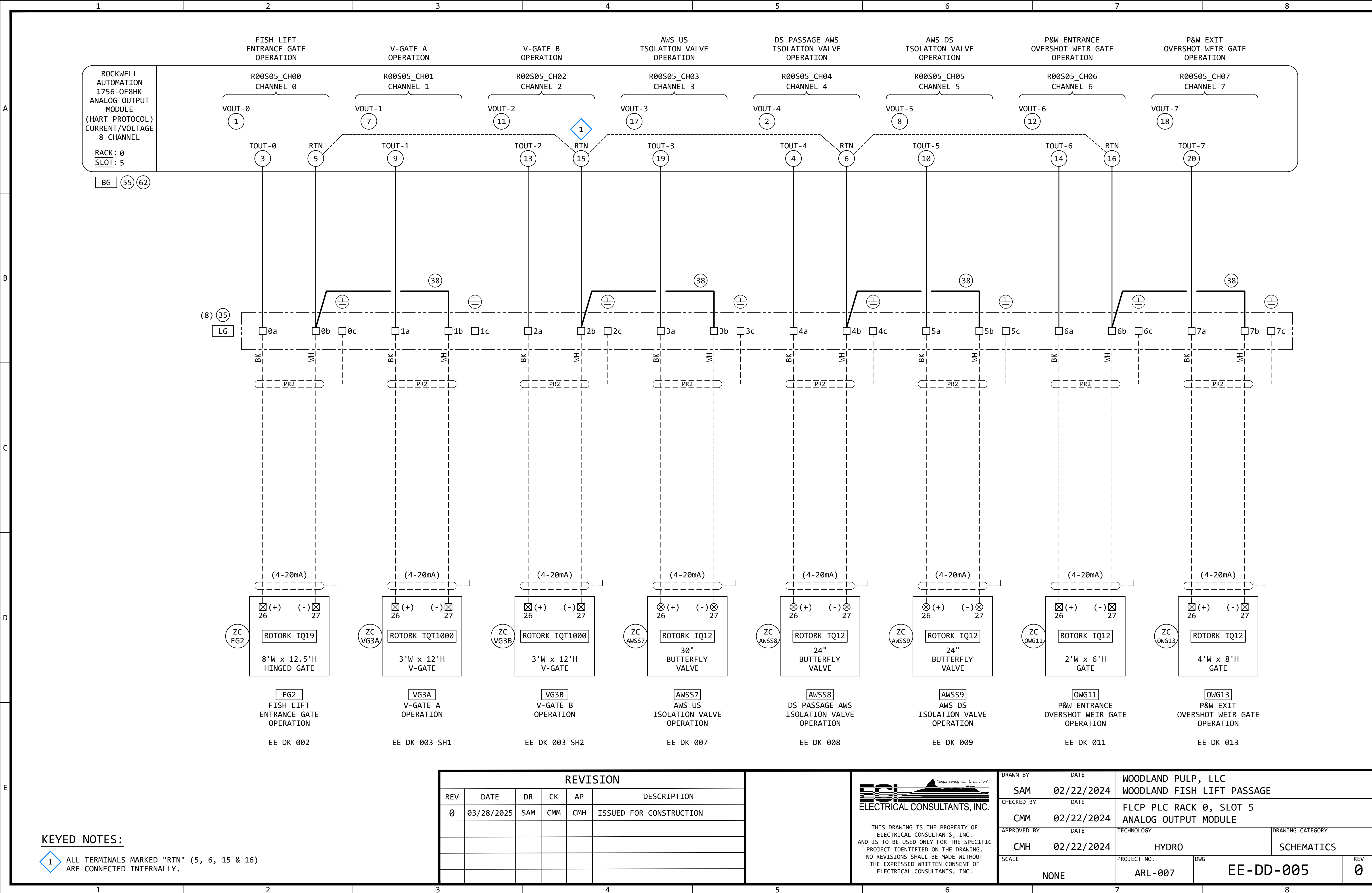
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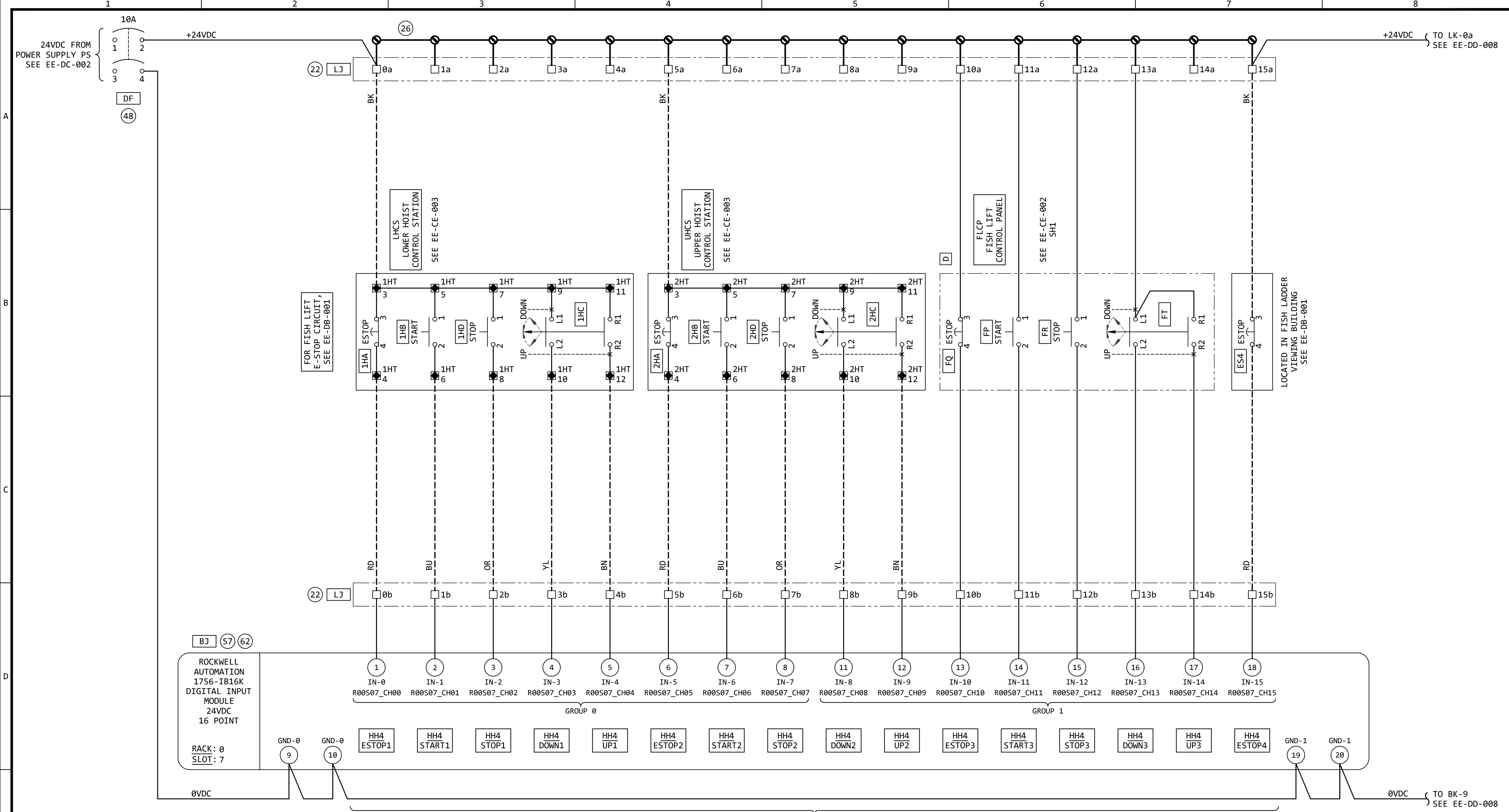
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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	FLCP PLC RACK 0, SLOT 4 ANALOG INPUT MODULE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DD-004 SH1	0	







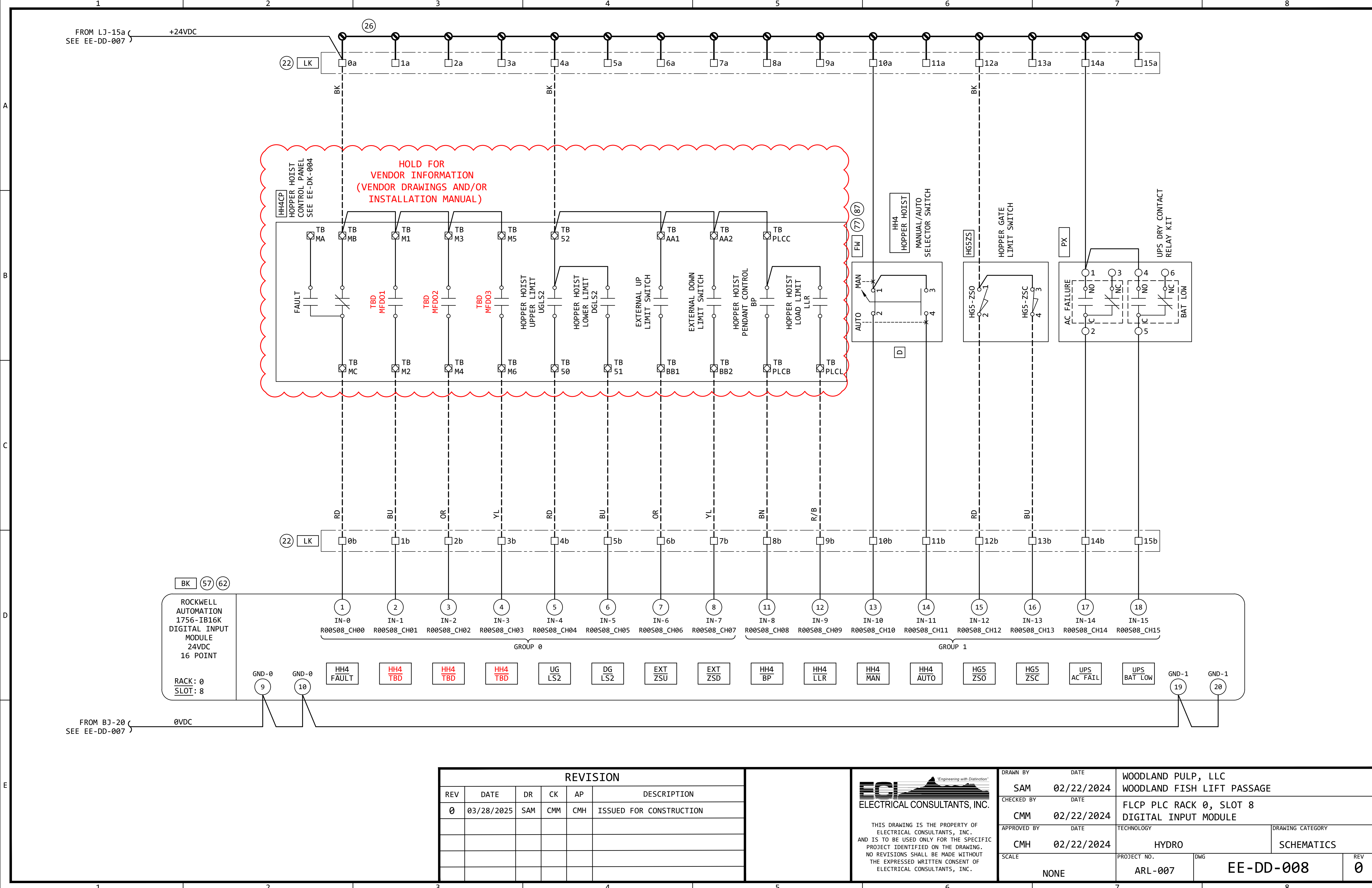
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	FLCP PLC RACK 0, SLOT 7 DIGITAL INPUT MODULE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DD-007	0	



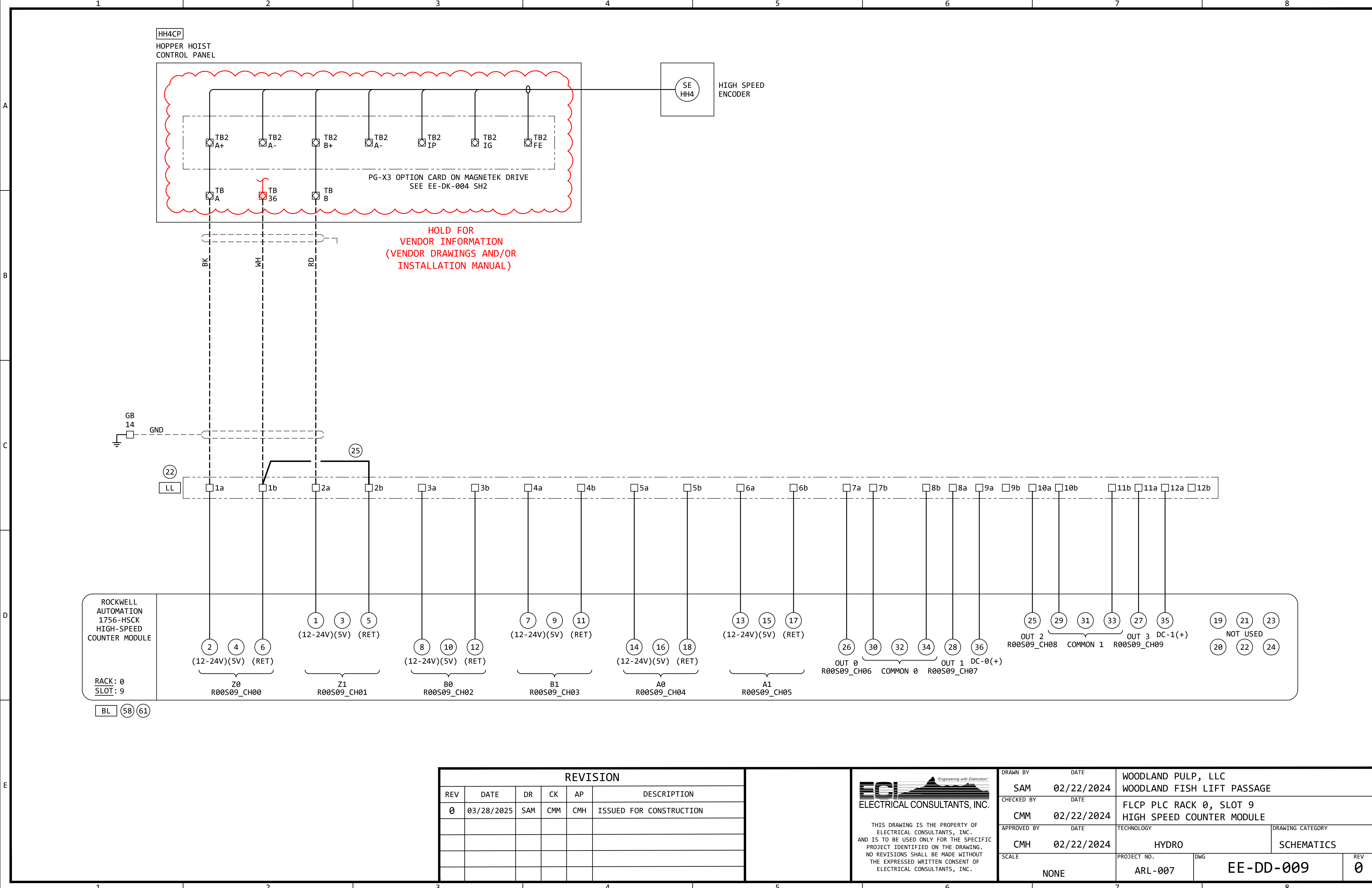
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	FLCP PLC RACK 0, SLOT 8 DIGITAL INPUT MODULE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DD-008	0	



HH4CP
HOPPER HOIST
CONTROL PANEL

SE
HH4
HIGH SPEED
ENCODER

TB2
A+
TB2
A-
TB2
B+
TB2
A-
TB2
IP
TB2
IG
TB2
FE
TB
A
TB
36
TB
B

PG-X3 OPTION CARD ON MAGNETEK DRIVE
SEE EE-DK-004 SH2

HOLD FOR
VENDOR INFORMATION
(VENDOR DRAWINGS AND/OR
INSTALLATION MANUAL)

GB
14
GND

LL
22

25

ROCKWELL
AUTOMATION
1756-HSCK
HIGH-SPEED
COUNTER MODULE

RACK: 0
SLOT: 9

BL 58 61

2 4 6
(12-24V)(5V) (RET)
Z0
R00S09_CH00

1 3 5
(12-24V)(5V) (RET)
Z1
R00S09_CH01

8 10 12
(12-24V)(5V) (RET)
B0
R00S09_CH02

7 9 11
(12-24V)(5V) (RET)
B1
R00S09_CH03

14 16 18
(12-24V)(5V) (RET)
A0
R00S09_CH04

13 15 17
(12-24V)(5V) (RET)
A1
R00S09_CH05

26 30 32 34 28 36
OUT 0 COMMON 0 OUT 1 DC-0(+)
R00S09_CH06 R00S09_CH07

25 29 31 33 27 35
OUT 2 COMMON 1 OUT 3 DC-1(+)
R00S09_CH08 R00S09_CH09

19 21 23
NOT USED
20 22 24

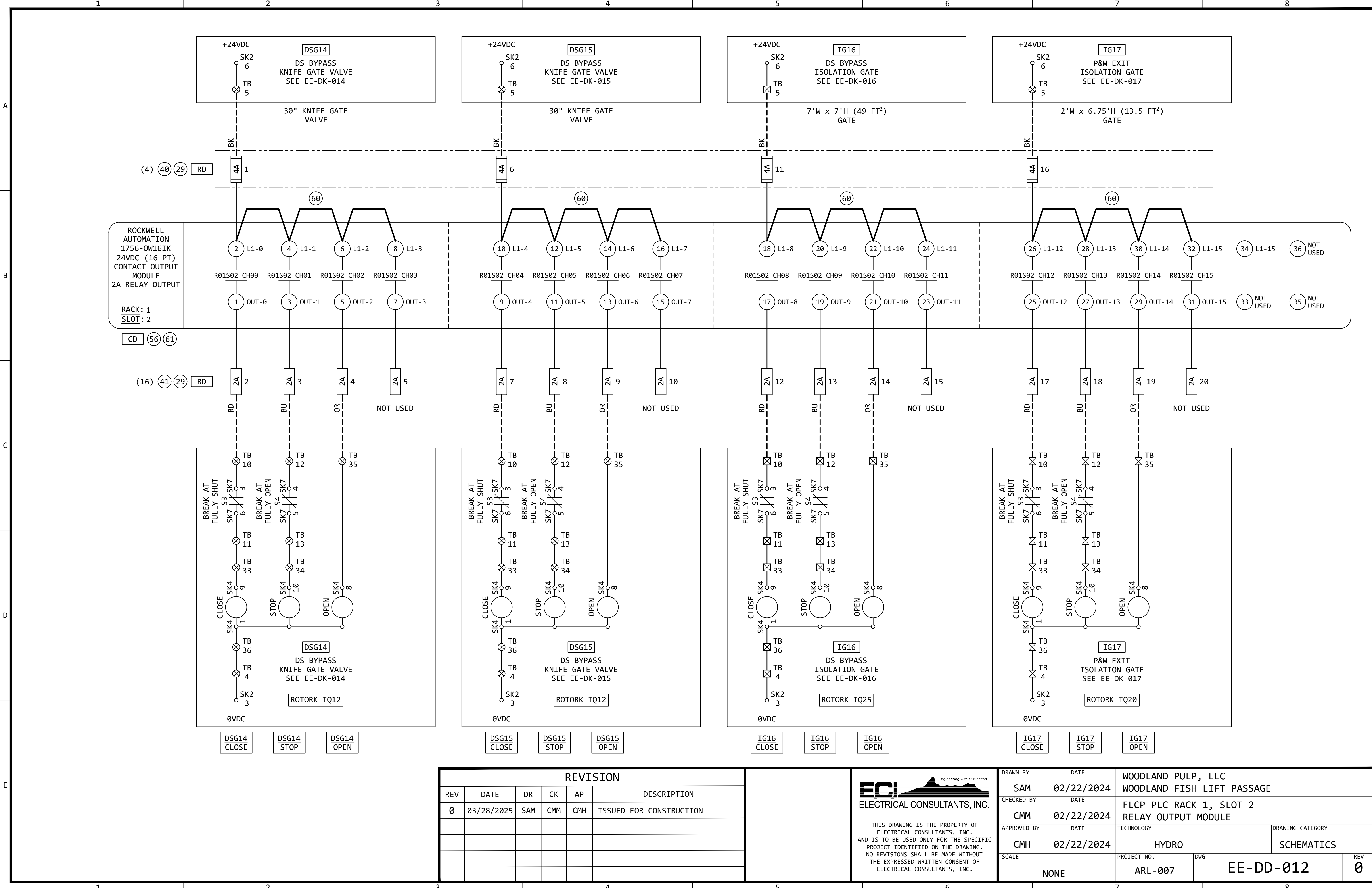
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REV	DATE	DR	CK	AP	DESCRIPTION
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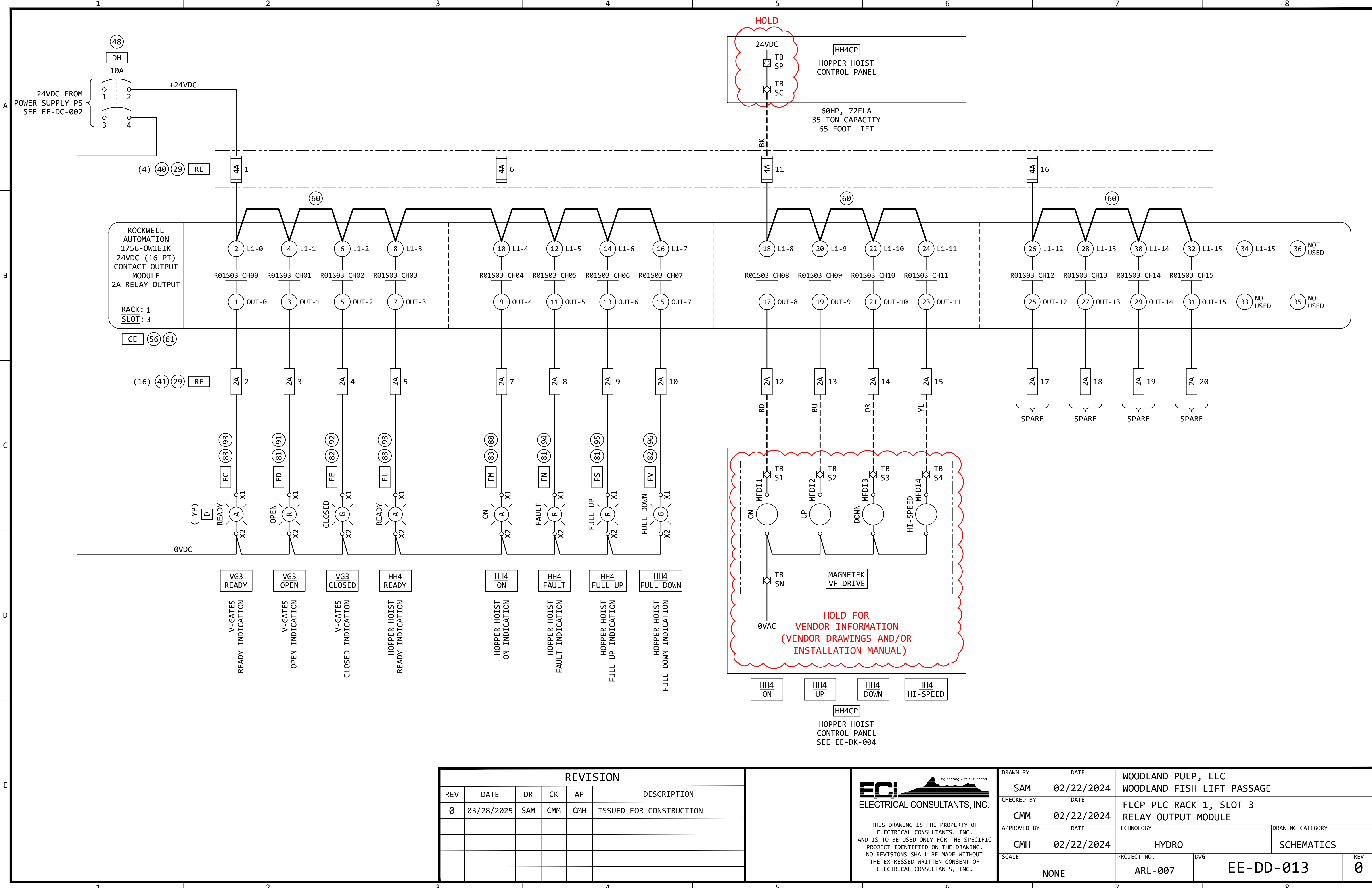
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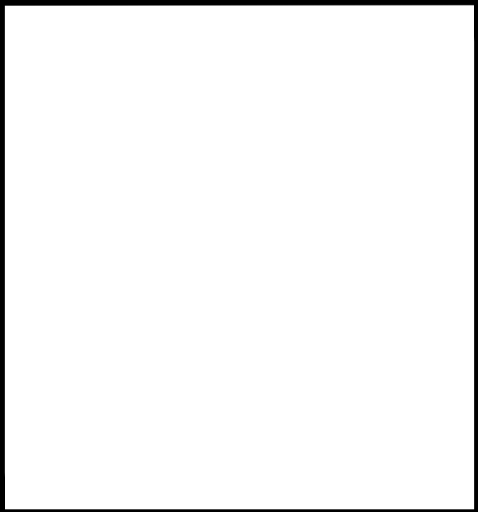
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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	FLCP PLC RACK 0, SLOT 9 HIGH SPEED COUNTER MODULE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DD-009	0	



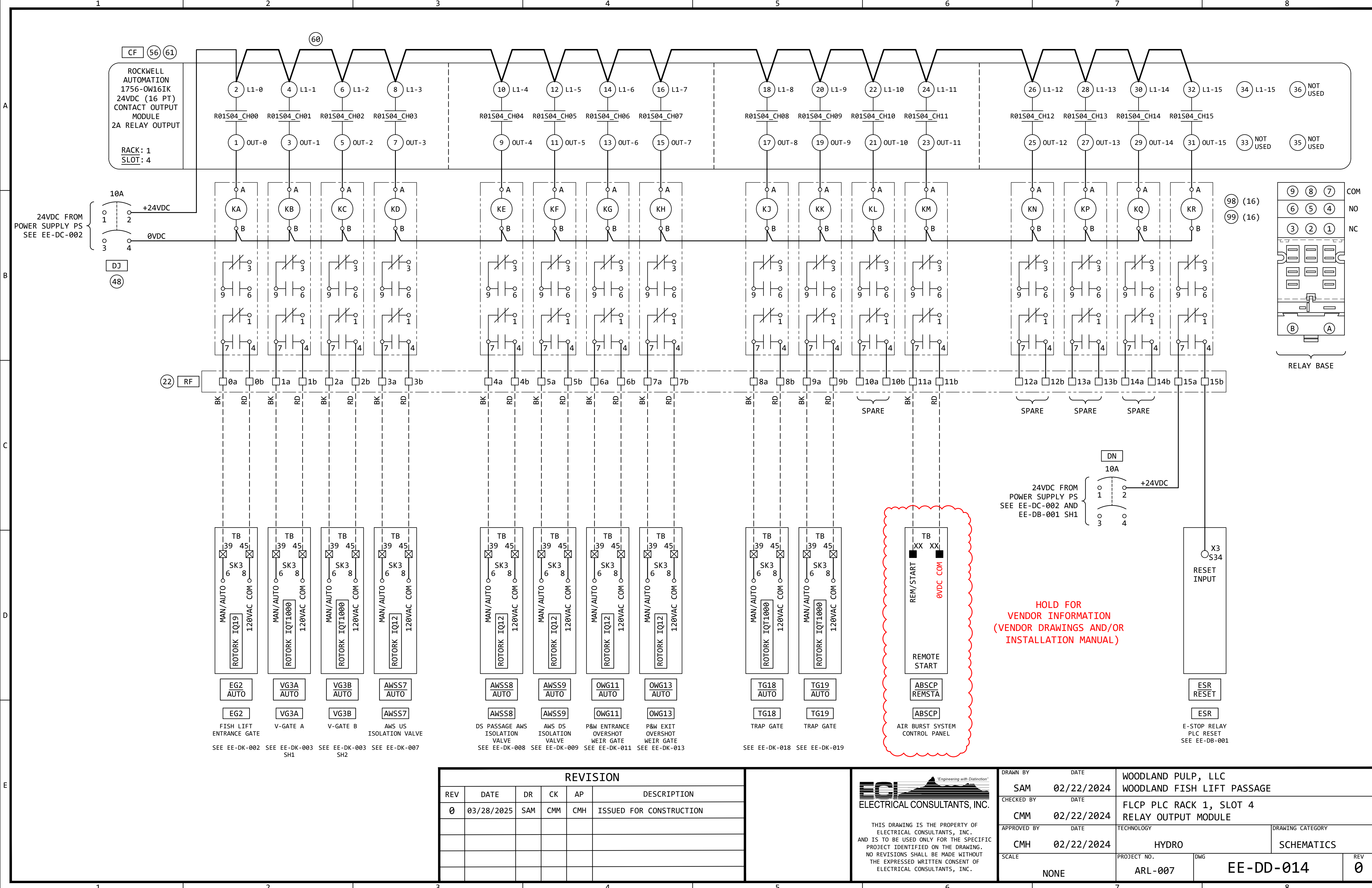


REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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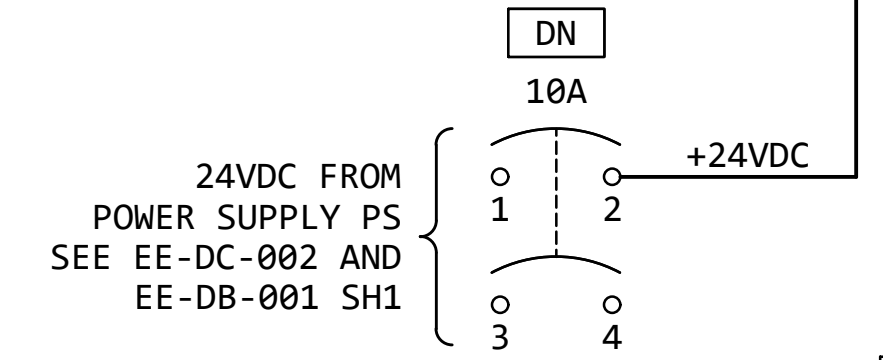
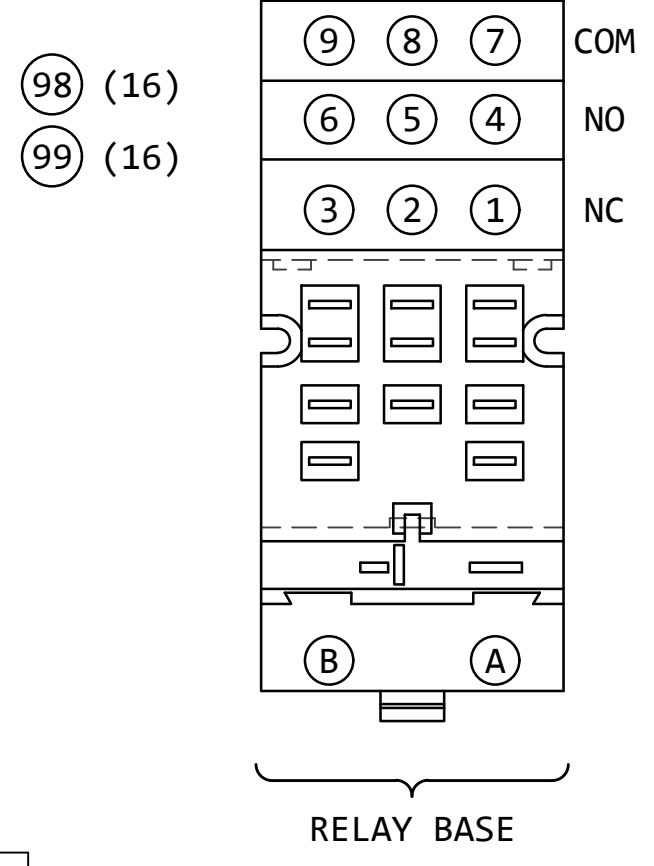
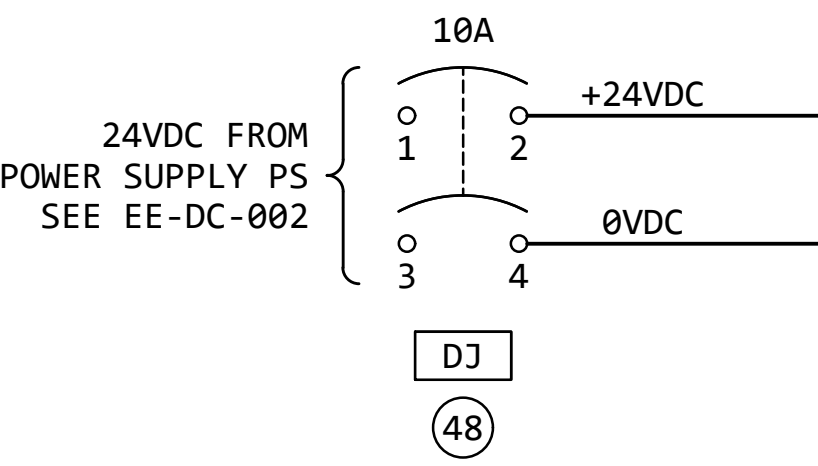
DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	FLCP PLC RACK 1, SLOT 3 RELAY OUTPUT MODULE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DD-013	0	



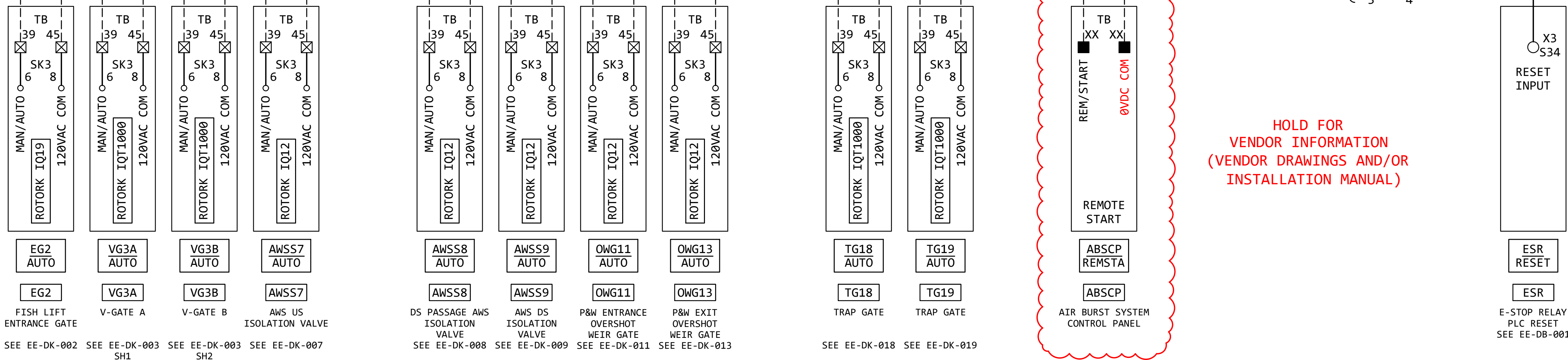
CF 56 61

ROCKWELL
AUTOMATION
1756-OW16IK
24VDC (16 PT)
CONTACT OUTPUT
MODULE
2A RELAY OUTPUT

RACK: 1
SLOT: 4



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VENDOR INFORMATION
(VENDOR DRAWINGS AND/OR
INSTALLATION MANUAL)



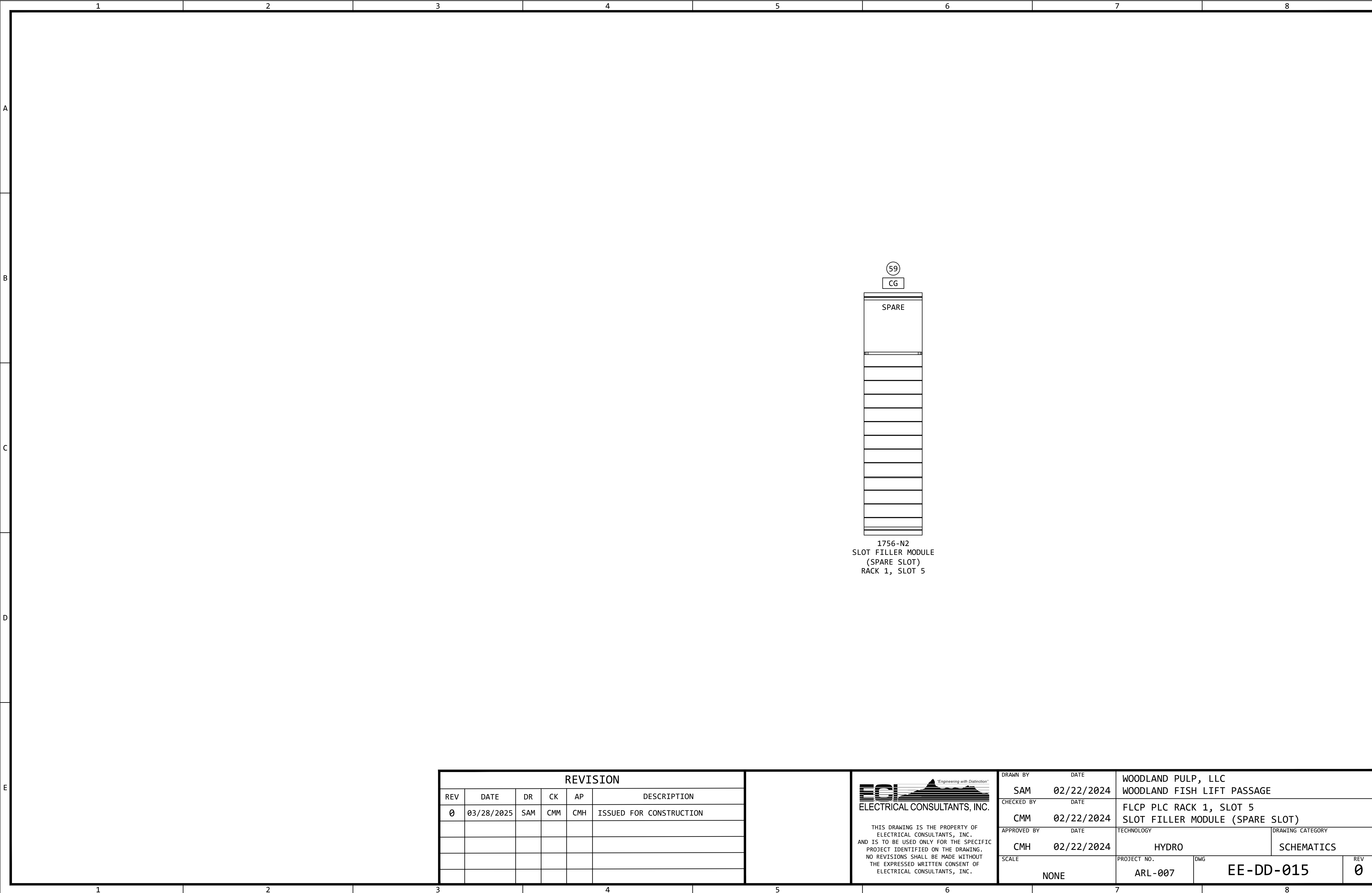
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REV	DATE	DR	CK	AP	DESCRIPTION
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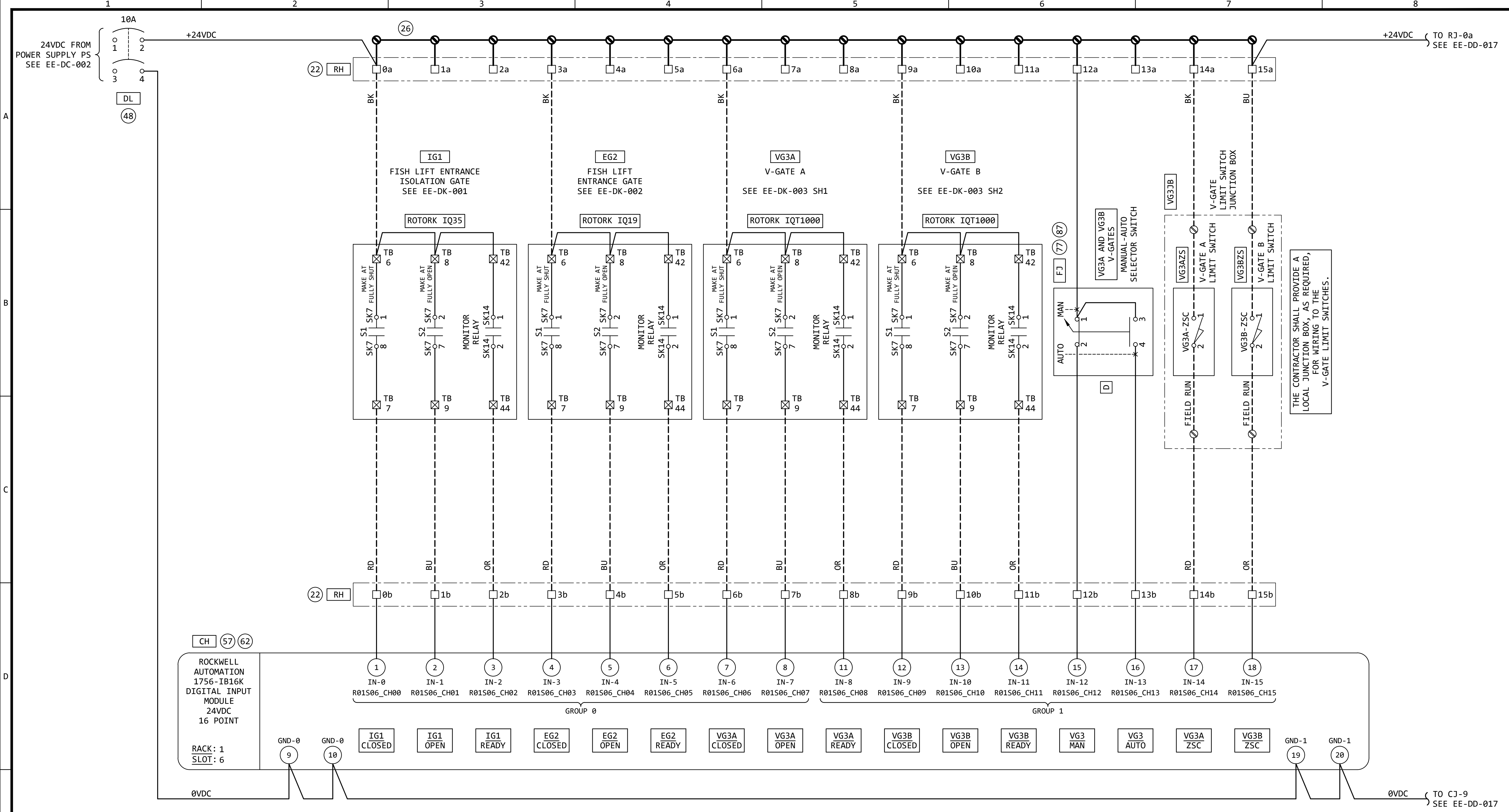


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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
SAM	02/22/2024			
CHECKED BY	DATE	FLCP PLC RACK 1, SLOT 4 RELAY OUTPUT MODULE		
CMM	02/22/2024			
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DD-014	0	





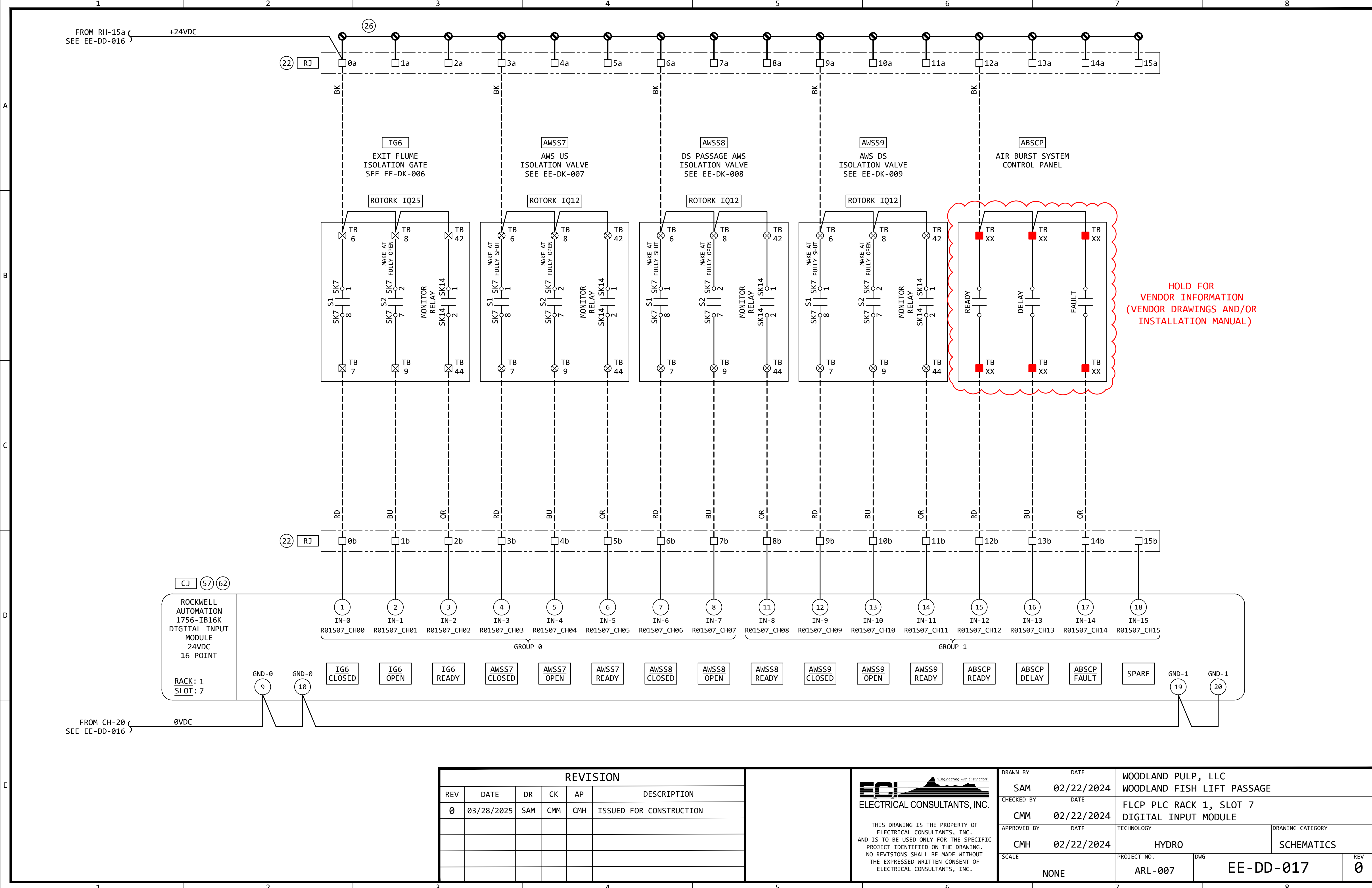
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	FLCP PLC RACK 1, SLOT 6 DIGITAL INPUT MODULE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DD-016	0	



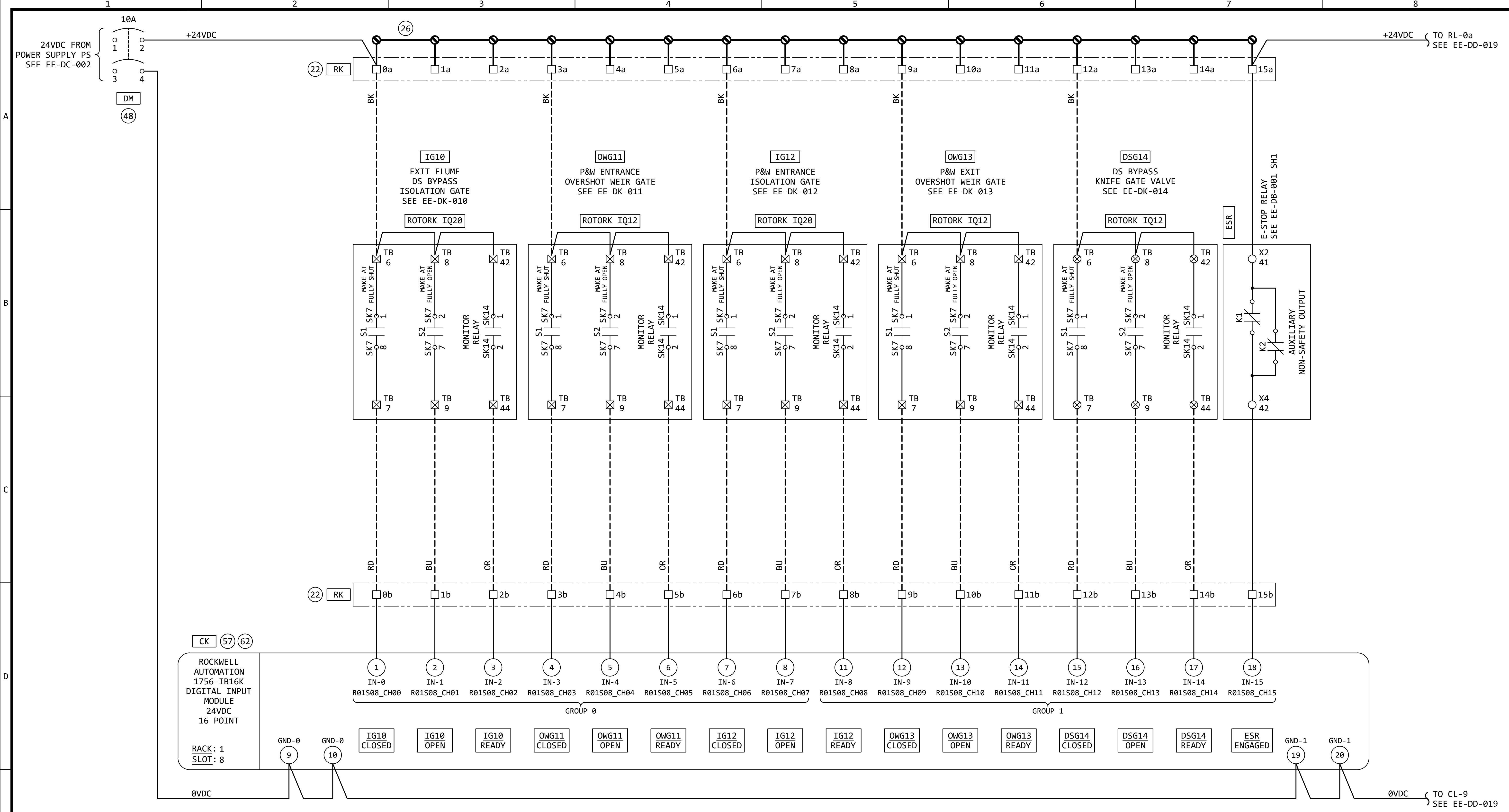
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	FLCP PLC RACK 1, SLOT 7 DIGITAL INPUT MODULE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DD-017	0	



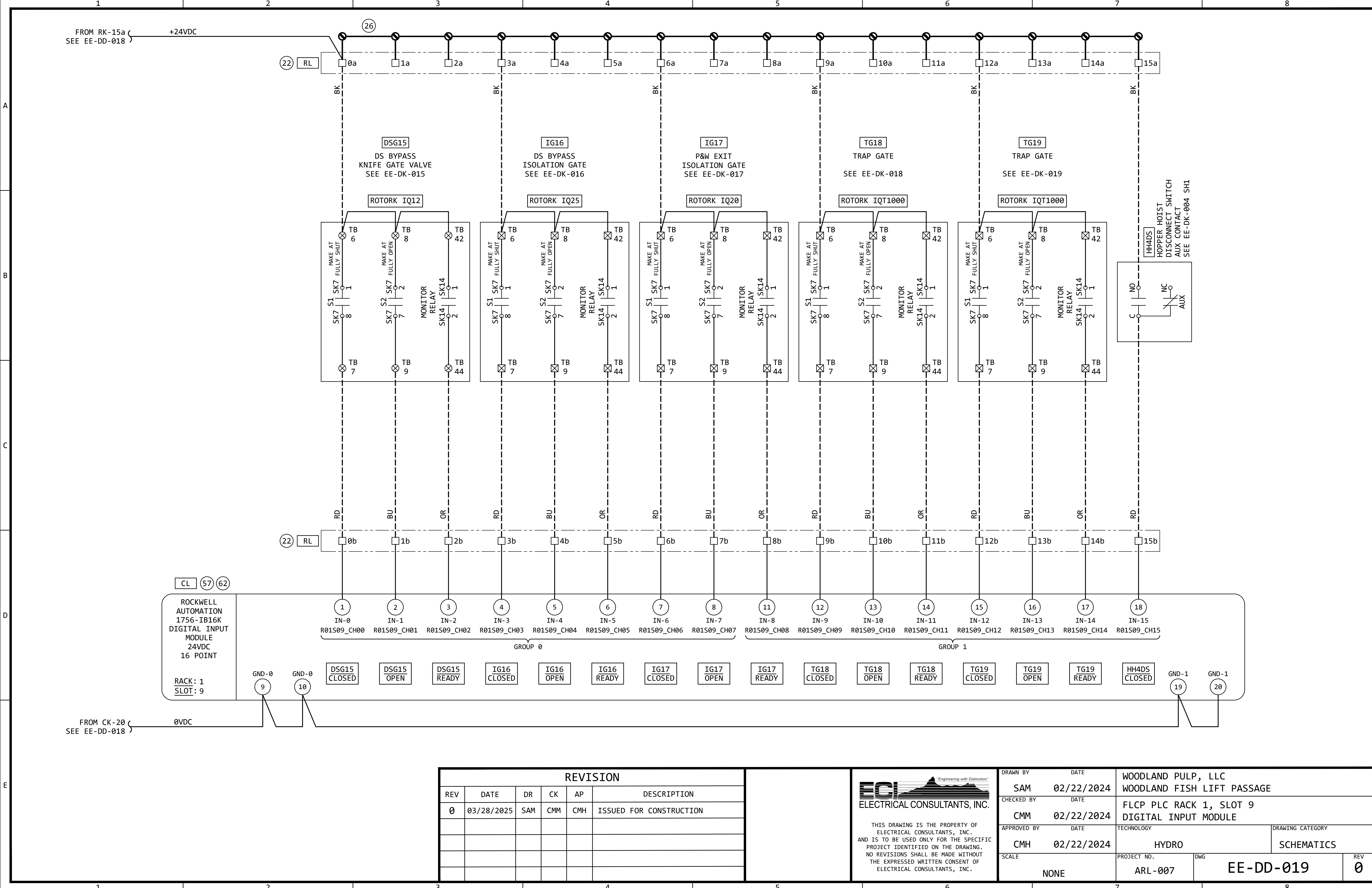
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



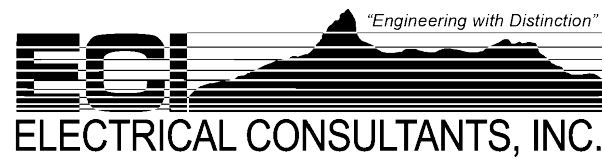
ECI
ELECTRICAL CONSULTANTS, INC.

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	FLCP PLC RACK 1, SLOT 8 DIGITAL INPUT MODULE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DD-018	0	

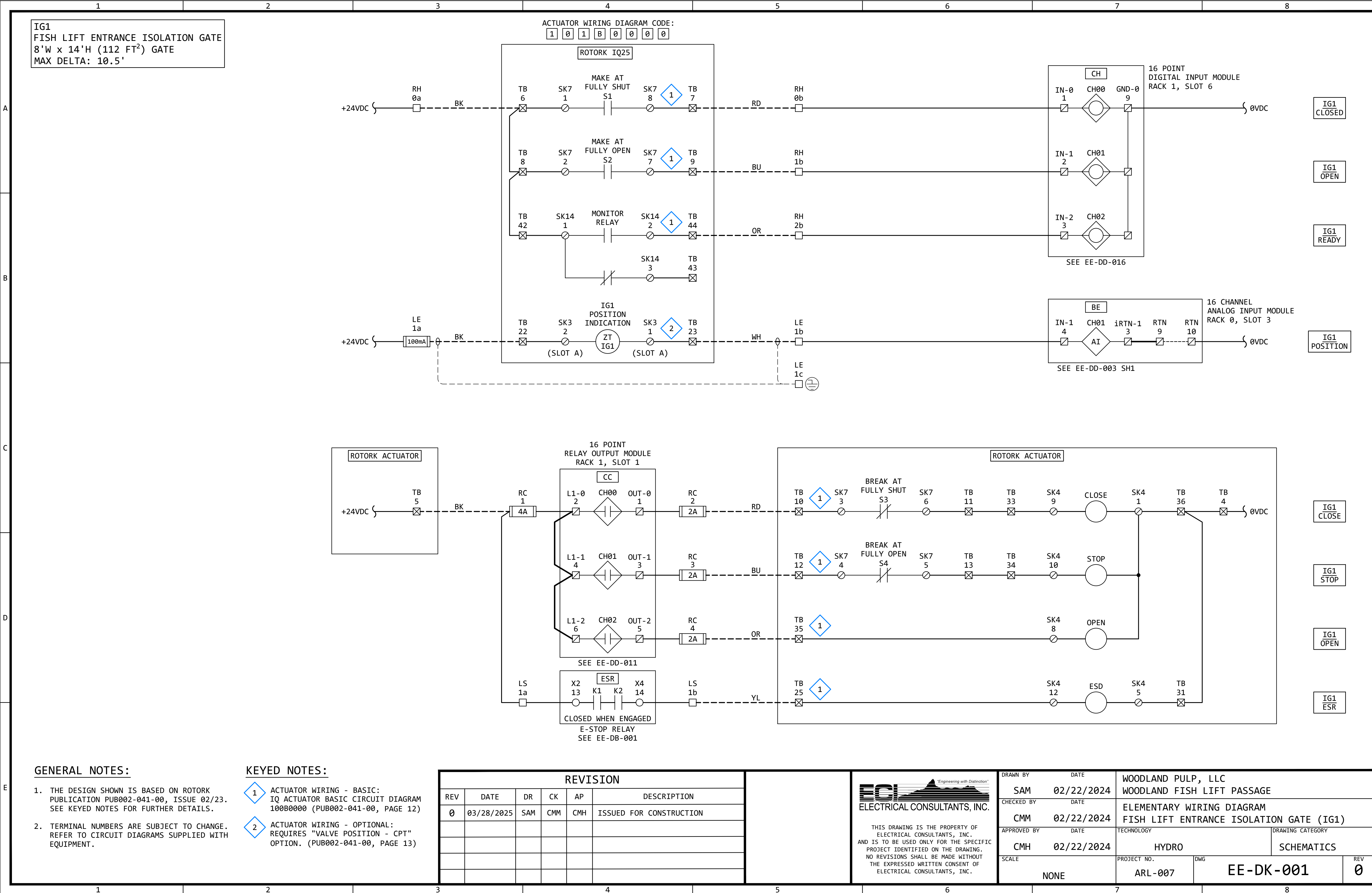


REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	FLCP PLC RACK 1, SLOT 9 DIGITAL INPUT MODULE		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DD-019	0	



GENERAL NOTES:

1. THE DESIGN SHOWN IS BASED ON ROTORK PUBLICATION PUB002-041-00, ISSUE 02/23. SEE KEYED NOTES FOR FURTHER DETAILS.

2. TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

1. ACTUATOR WIRING - BASIC: IQ ACTUATOR BASIC CIRCUIT DIAGRAM 100B0000 (PUB002-041-00, PAGE 12)

2. ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)

REVISION

REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

ECI

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DRAWN BY

SAM

DATE

02/22/2024

CHECKED BY

CMM

DATE

02/22/2024

APPROVED BY

CMH

DATE

02/22/2024

SCALE

NONE

WOODLAND PULP, LLC

WOODLAND FISH LIFT PASSAGE

ELEMENTARY WIRING DIAGRAM

FISH LIFT ENTRANCE ISOLATION GATE (IG1)

TECHNOLOGY

HYDRO

DRAWING CATEGORY

SCHEMATICS

PROJECT NO.

ARL-007

DWG

EE-DK-001

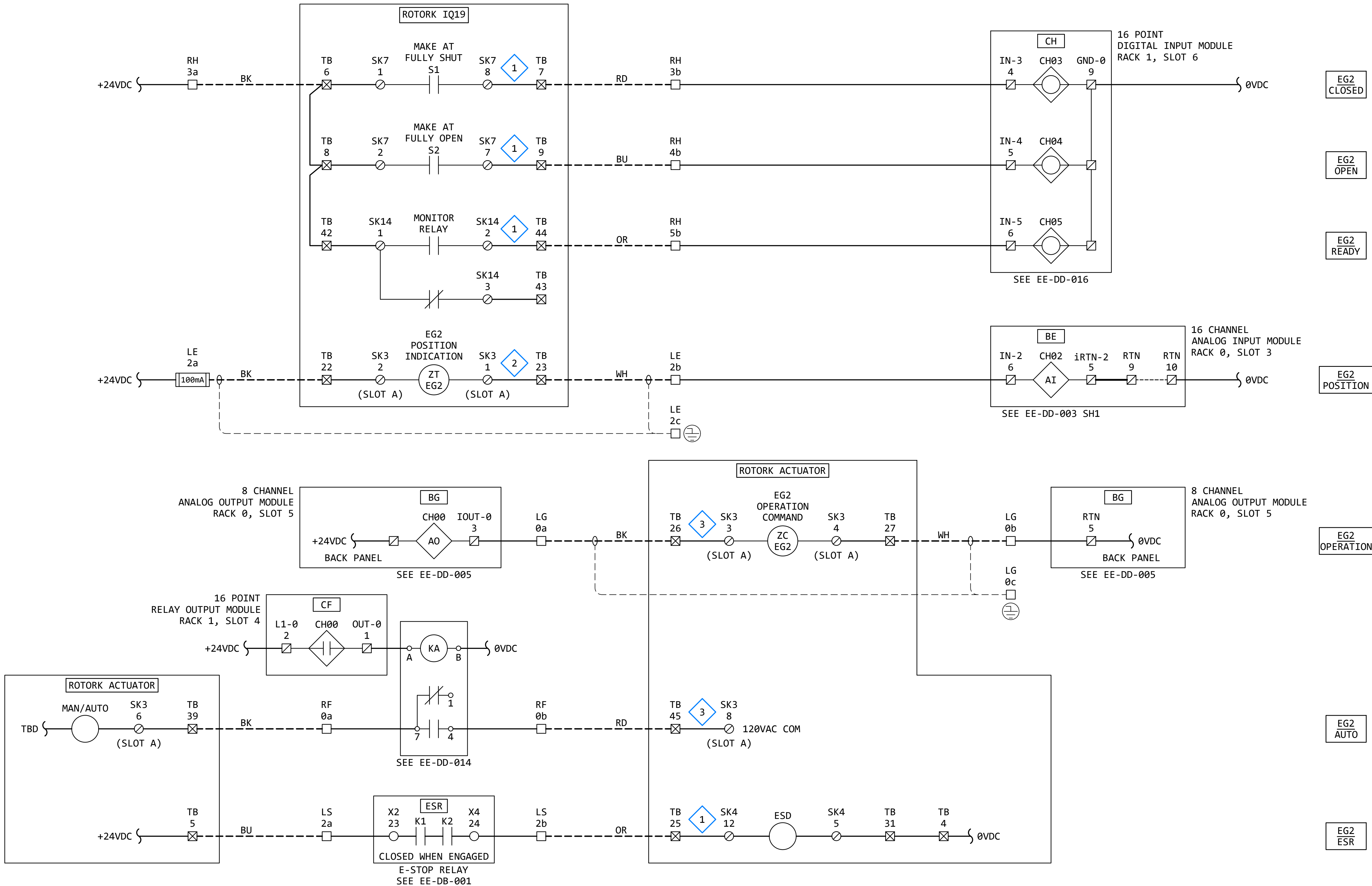
REV

0

EG2
FISH LIFT ENTRANCE GATE
8'W x 12.5'H (100 FT²)
HINGED GATE

ACTUATOR WIRING DIAGRAM CODE:

2 0 3 B 0 0 0 0



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KEYED NOTES:

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- ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)
- ACTUATOR WIRING - OPTIONAL: REQUIRES "ANALOGUE POSITION CONTROL FOLOMATIC" OPTION. (PUB002-041-00, PAGE 13)

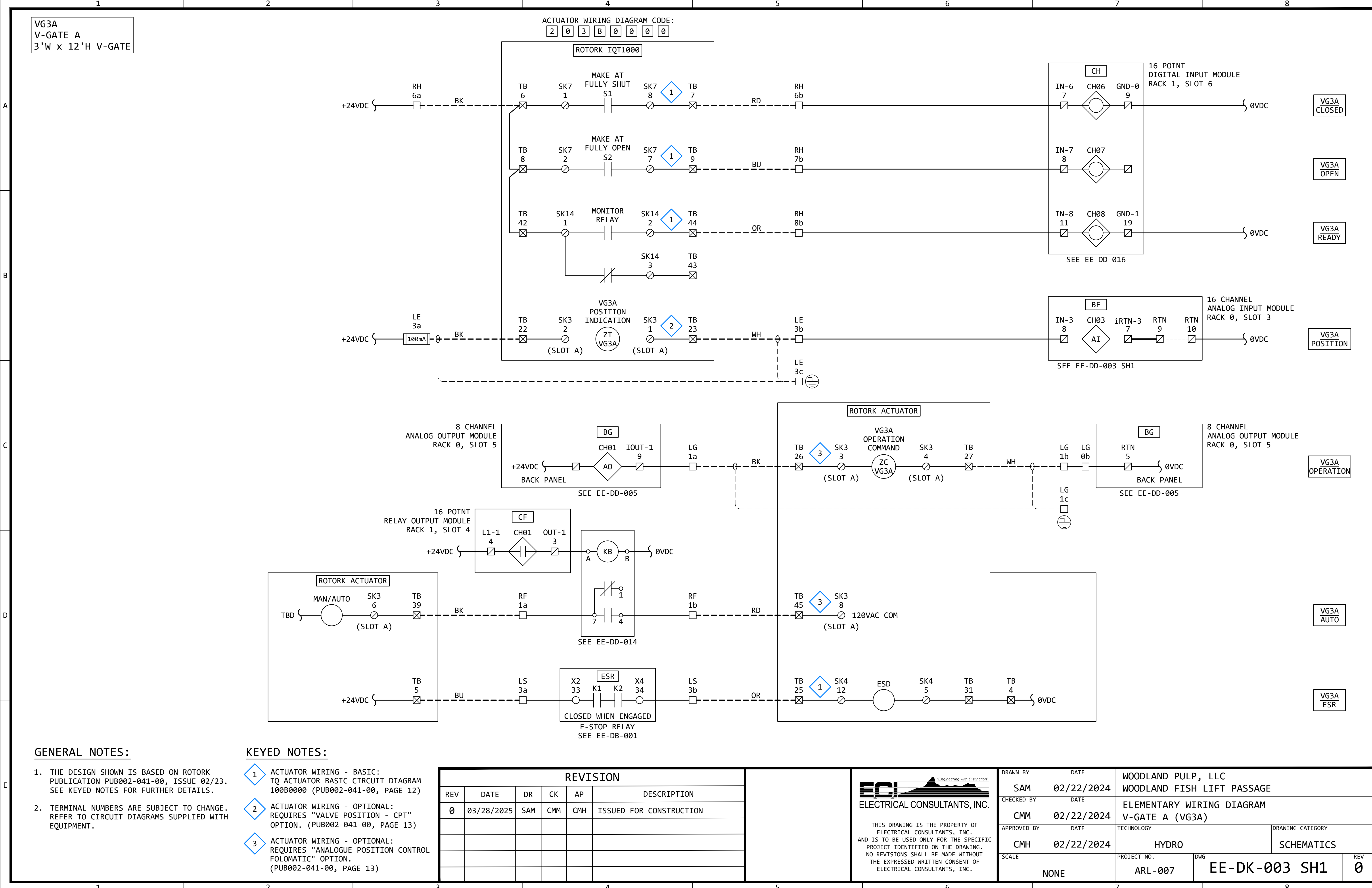
REVISION

REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ELEMENTARY WIRING DIAGRAM FISH LIFT ENTRANCE GATE (EG2)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DK-002	0	



GENERAL NOTES:

1. THE DESIGN SHOWN IS BASED ON ROTORK PUBLICATION PUB002-041-00, ISSUE 02/23. SEE KEYED NOTES FOR FURTHER DETAILS.
2. TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

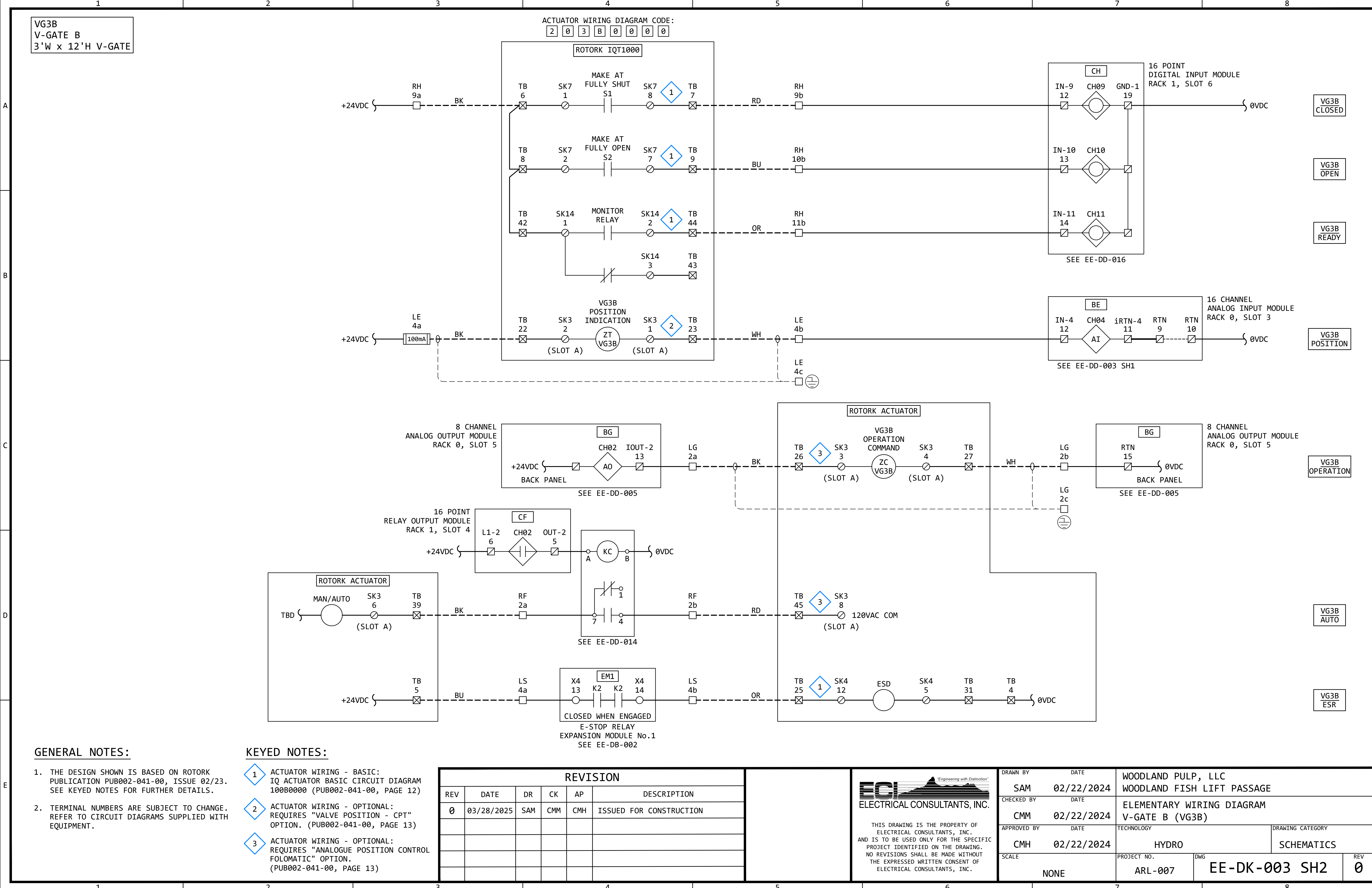
- 1 ACTUATOR WIRING - BASIC: IQ ACTUATOR BASIC CIRCUIT DIAGRAM 100B0000 (PUB002-041-00, PAGE 12)
- 2 ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)
- 3 ACTUATOR WIRING - OPTIONAL: REQUIRES "ANALOGUE POSITION CONTROL FOLOMATIC" OPTION. (PUB002-041-00, PAGE 13)

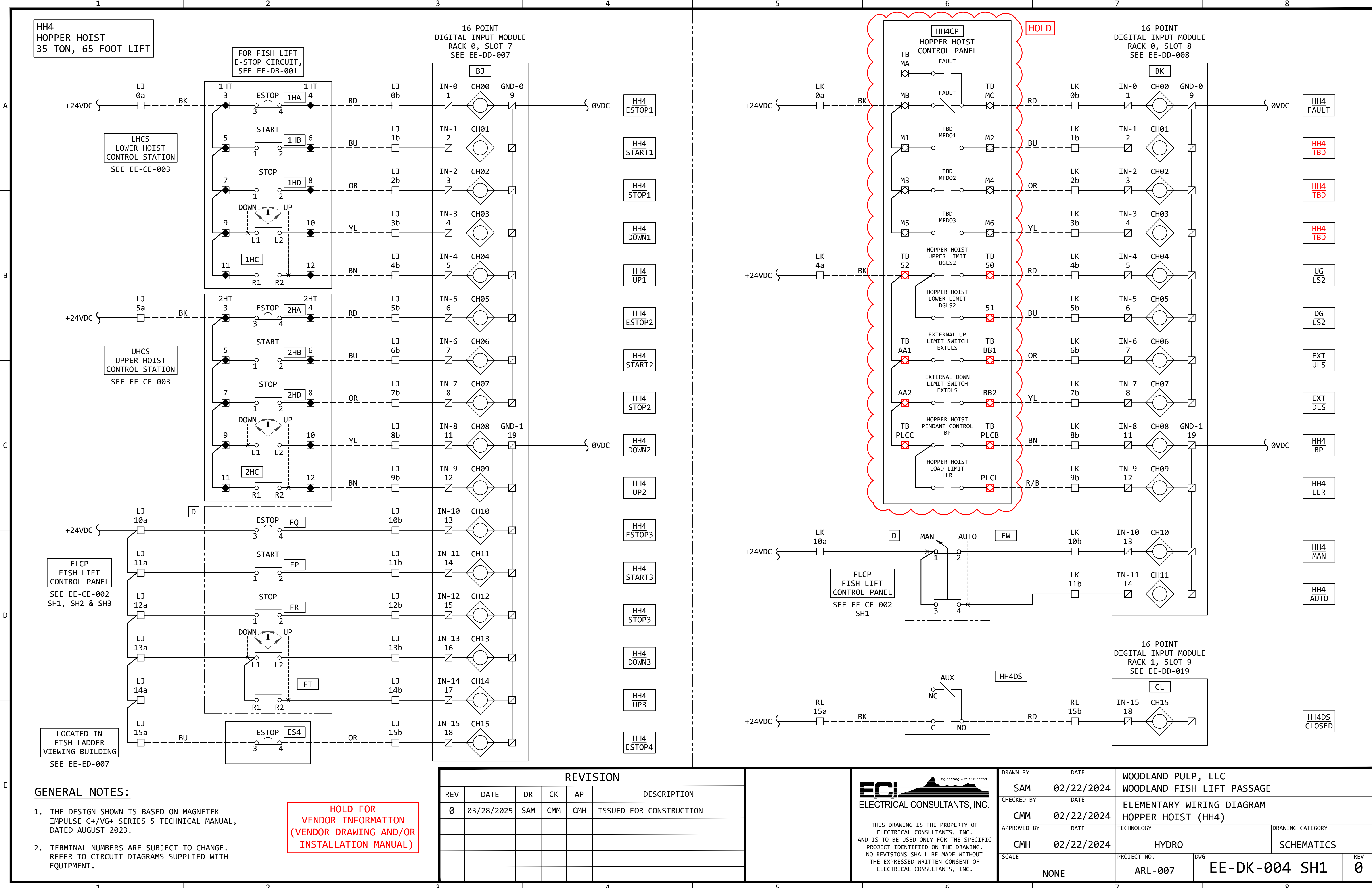
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

ECI "Engineering with Distinction"
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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ELEMENTARY WIRING DIAGRAM V-GATE A (VG3A)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DK-003 SH1	0	



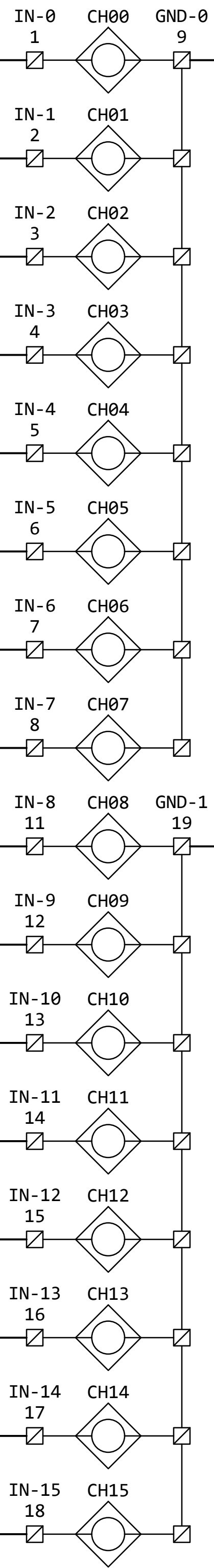


HH4
HOPPER HOIST
35 TON, 65 FOOT LIFT

FOR FISH LIFT
E-STOP CIRCUIT,
SEE EE-DB-001

16 POINT
DIGITAL INPUT MODULE
RACK 0, SLOT 7
SEE EE-DD-007

BJ



HH4
ESTOP1

HH4
START1

HH4
STOP1

HH4
DOWN1

HH4
UP1

HH4
ESTOP2

HH4
START2

HH4
STOP2

HH4
DOWN2

HH4
UP2

HH4
ESTOP3

HH4
START3

HH4
STOP3

HH4
DOWN3

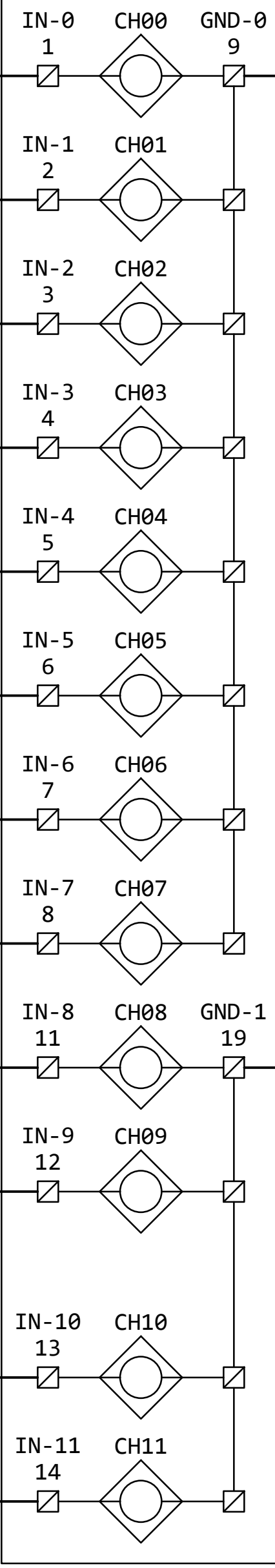
HH4
UP3

HH4
ESTOP4

HOLD

16 POINT
DIGITAL INPUT MODULE
RACK 0, SLOT 8
SEE EE-DD-008

BK



HH4
FAULT

HH4
TBD

HH4
TBD

HH4
TBD

UG
LS2

DG
LS2

EXT
ULS

EXT
DLS

HH4
BP

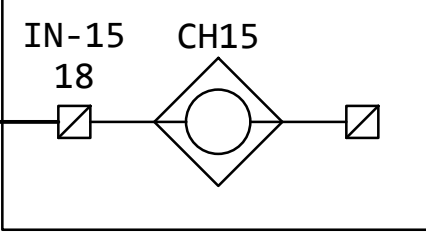
HH4
LLR

HH4
MAN

HH4
AUTO

16 POINT
DIGITAL INPUT MODULE
RACK 1, SLOT 9
SEE EE-DD-019

CL

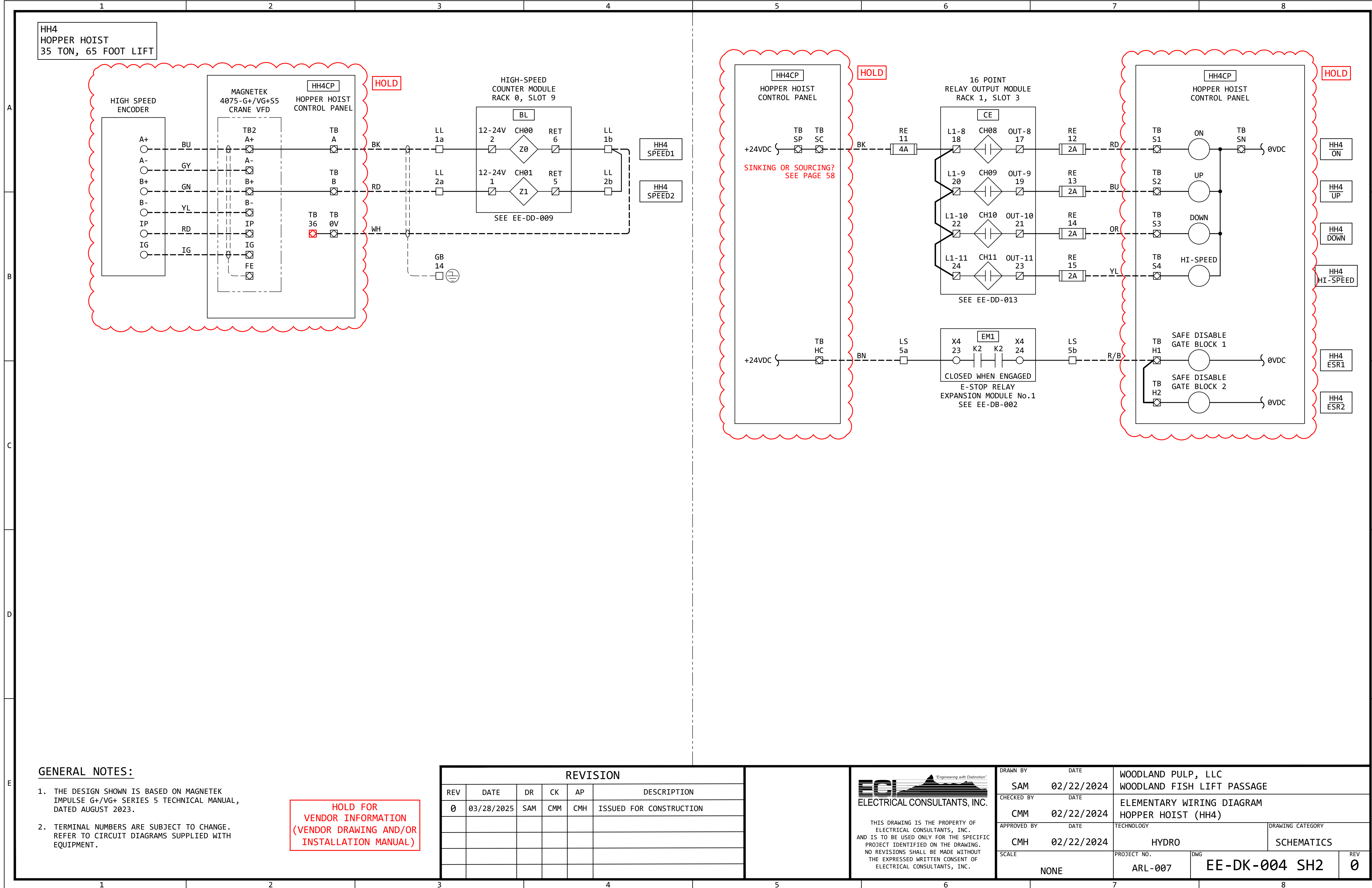


HH4DS
CLOSED

GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON MAGNETEK IMPULSE G+/VG+ SERIES 5 TECHNICAL MANUAL, DATED AUGUST 2023.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

HOLD FOR
VENDOR INFORMATION
(VENDOR DRAWING AND/OR
INSTALLATION MANUAL)



1. THE DESIGN SHOWN IS BASED ON MAGNETEK IMPULSE G+/VG+ SERIES 5 TECHNICAL MANUAL, DATED AUGUST 2023.
2. TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

HOLD FOR
VENDOR INFORMATION
(VENDOR DRAWING AND/OR
INSTALLATION MANUAL)

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

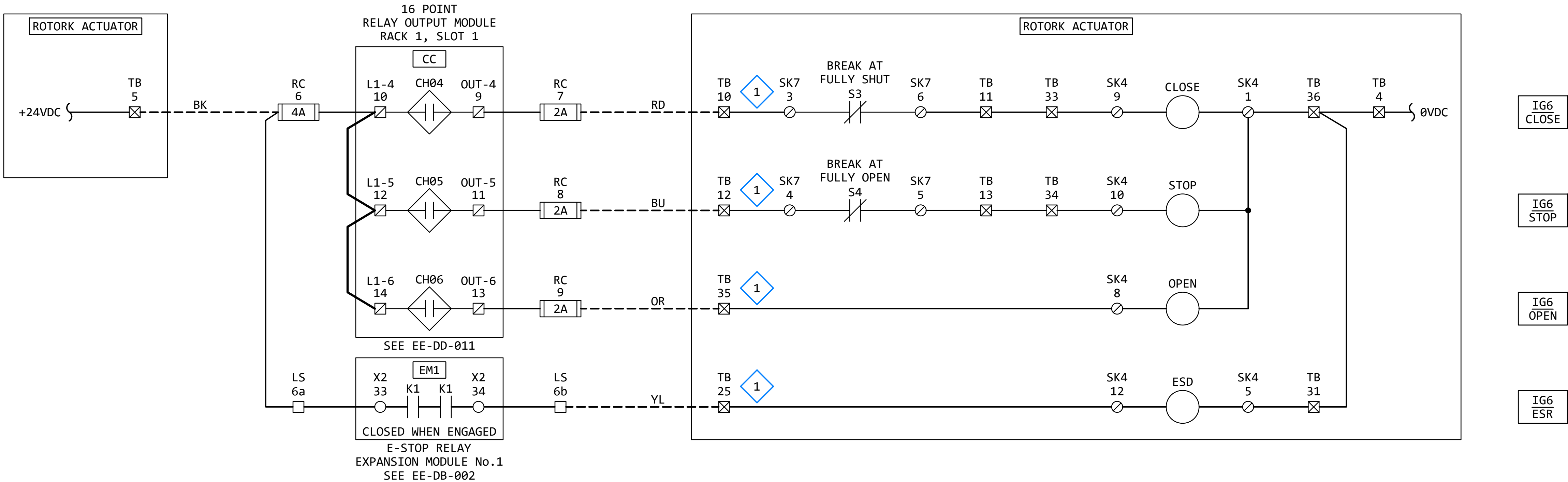
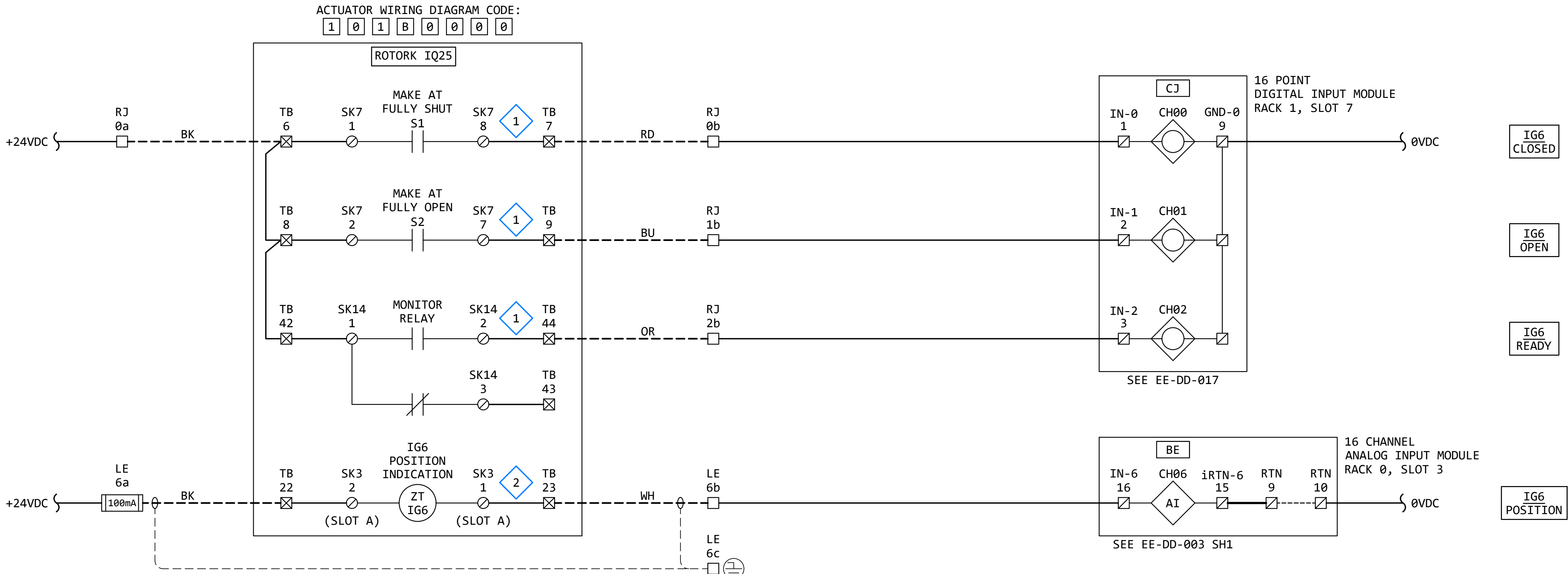


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ELECTRICAL CONSULTANTS, INC.

DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	02/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ELEMENTARY WIRING DIAGRAM		
CMM	02/22/2024	HOPPER HOIST (HH4)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	SCHEMATICS	
SCALE		PROJECT NO.	DWG	REV
NONE		ARL-007	EE-DK-004 SH2	0

IG6
EXIT FLUME ISOLATION GATE
8'W x 9.5'H (76 FT²) GATE
MAX DELTA: 10.6'



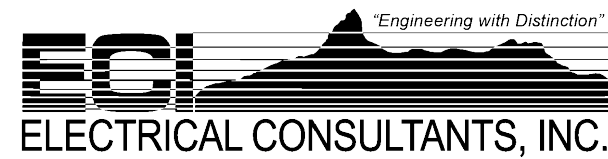
GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK PUBLICATION PUB002-041-00, ISSUE 02/23. SEE KEYED NOTES FOR FURTHER DETAILS.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- 1 ACTUATOR WIRING - BASIC: IQ ACTUATOR BASIC CIRCUIT DIAGRAM 100B0000 (PUB002-041-00, PAGE 12)
- 2 ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)

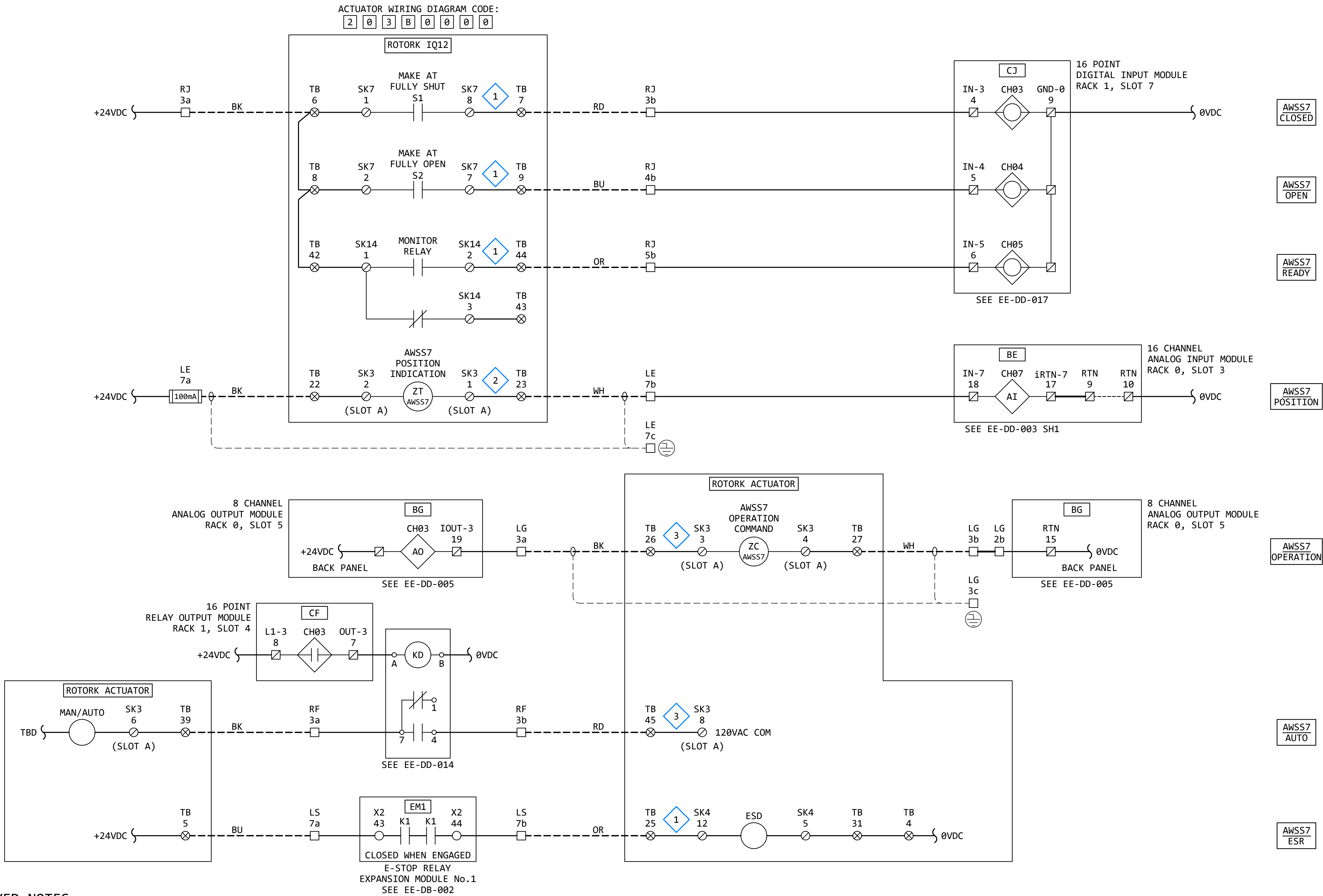
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ELEMENTARY WIRING DIAGRAM EXIT FLUME ISOLATION GATE (IG6)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DK-006	0	

AWSS7
AWS US ISOLATION VALVE
30" BUTTERFLY VALVE



GENERAL NOTES:

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KEYED NOTES:

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- ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)
- ACTUATOR WIRING - OPTIONAL: REQUIRES "ANALOGUE POSITION CONTROL FOLOMATIC" OPTION. (PUB002-041-00, PAGE 13)

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



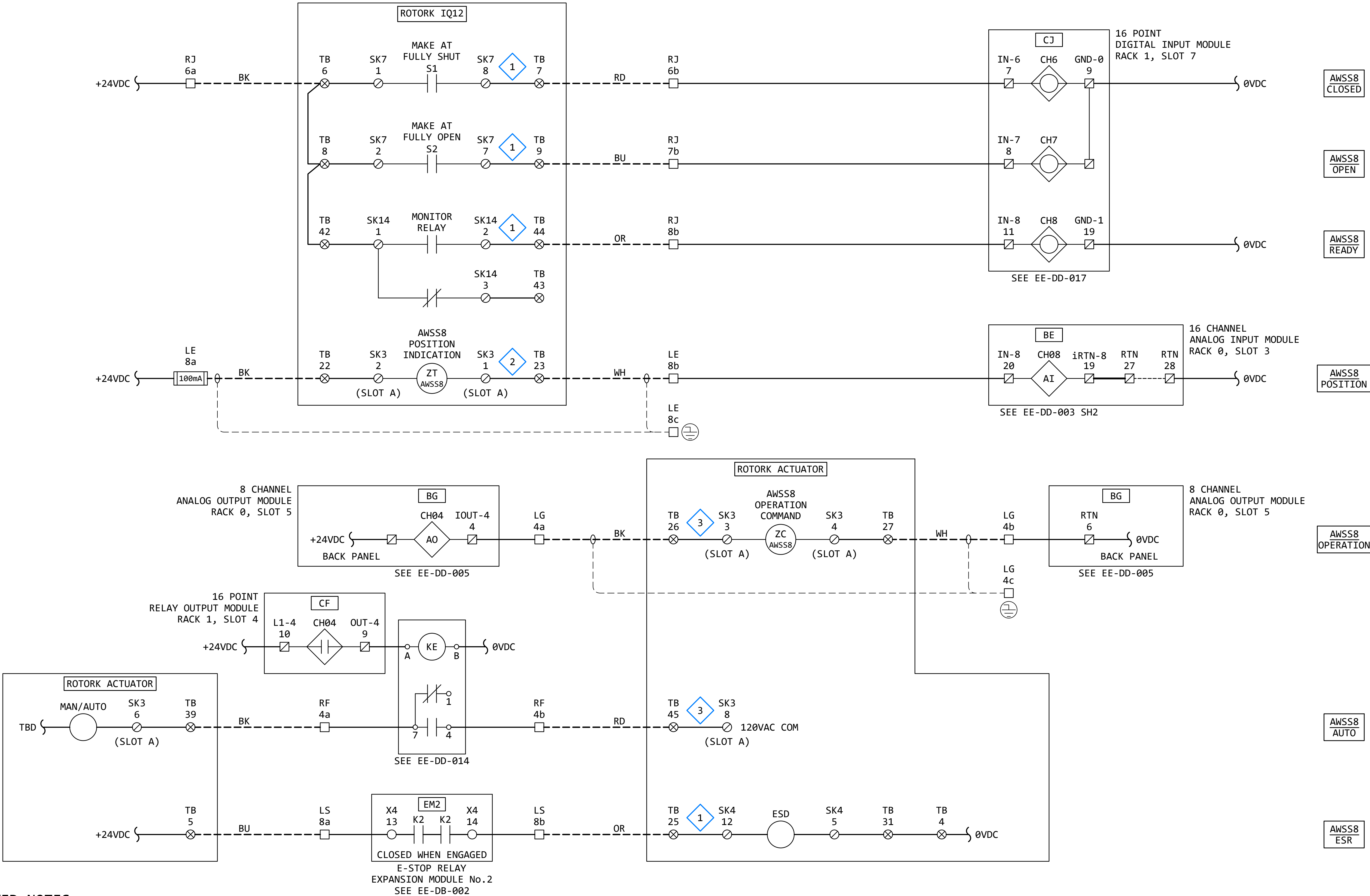
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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ELEMENTARY WIRING DIAGRAM AWS US ISOLATION VALVE (AWSS7)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DK-007	0	

AWSS8
DS PASSAGE AWS ISOLATION VALVE
24" BUTTERFLY VALVE

ACTUATOR WIRING DIAGRAM CODE:

2 0 3 B 0 0 0 0



GENERAL NOTES:

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- ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)
- ACTUATOR WIRING - OPTIONAL: REQUIRES "ANALOGUE POSITION CONTROL FOLOMATIC" OPTION. (PUB002-041-00, PAGE 13)

REVISION

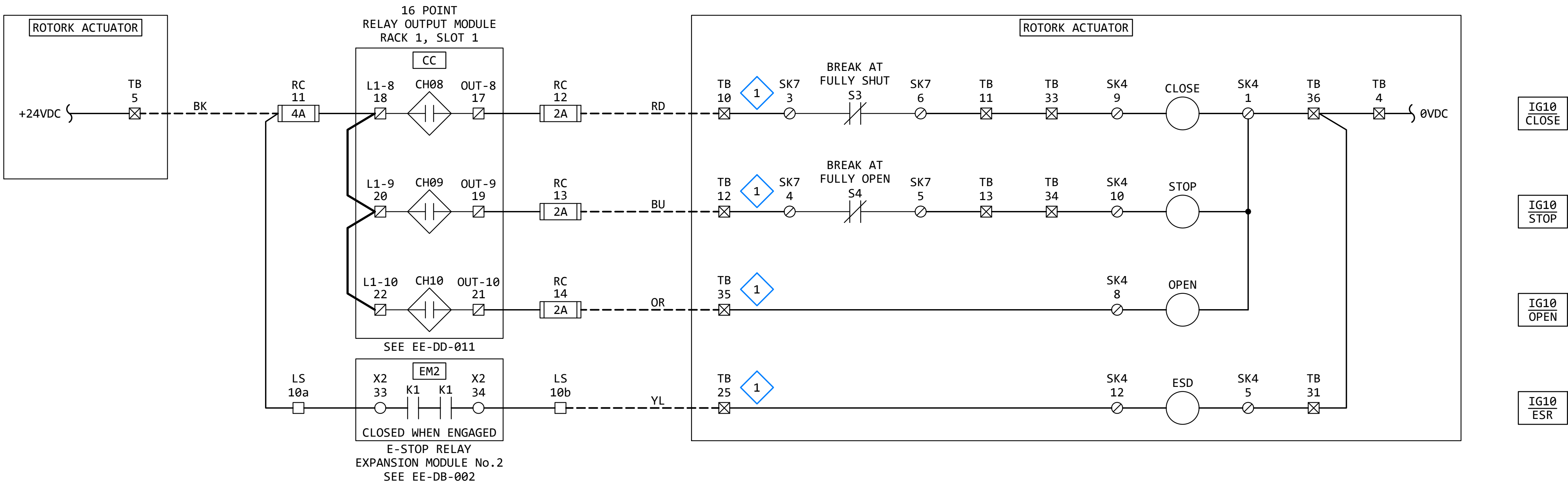
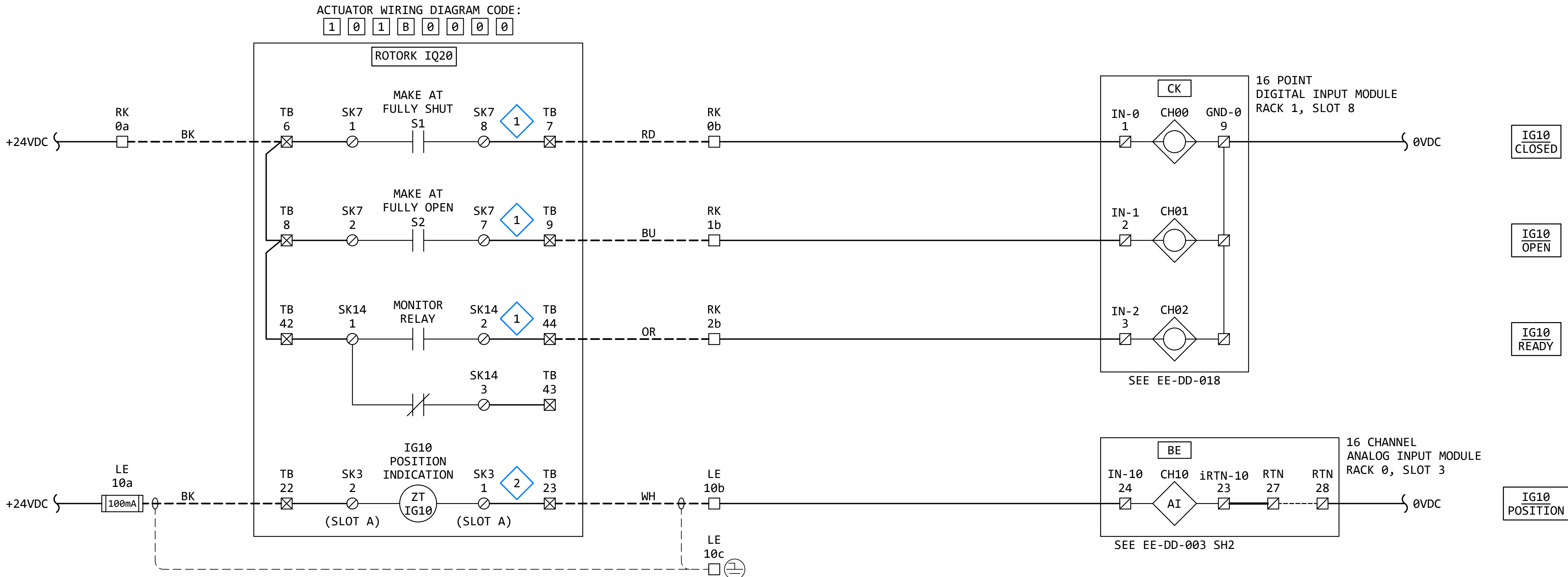
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ELEMENTARY WIRING DIAGRAM DS PASSAGE AWS ISOLATION VALVE (AWSS8)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DK-008	0	

IG10
EXIT FLUME DS BYPASS ISOLATION GATE
6'W x 4'H (24 FT²) GATE
MAX DELTA: 11.0'



GENERAL NOTES:

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- ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)

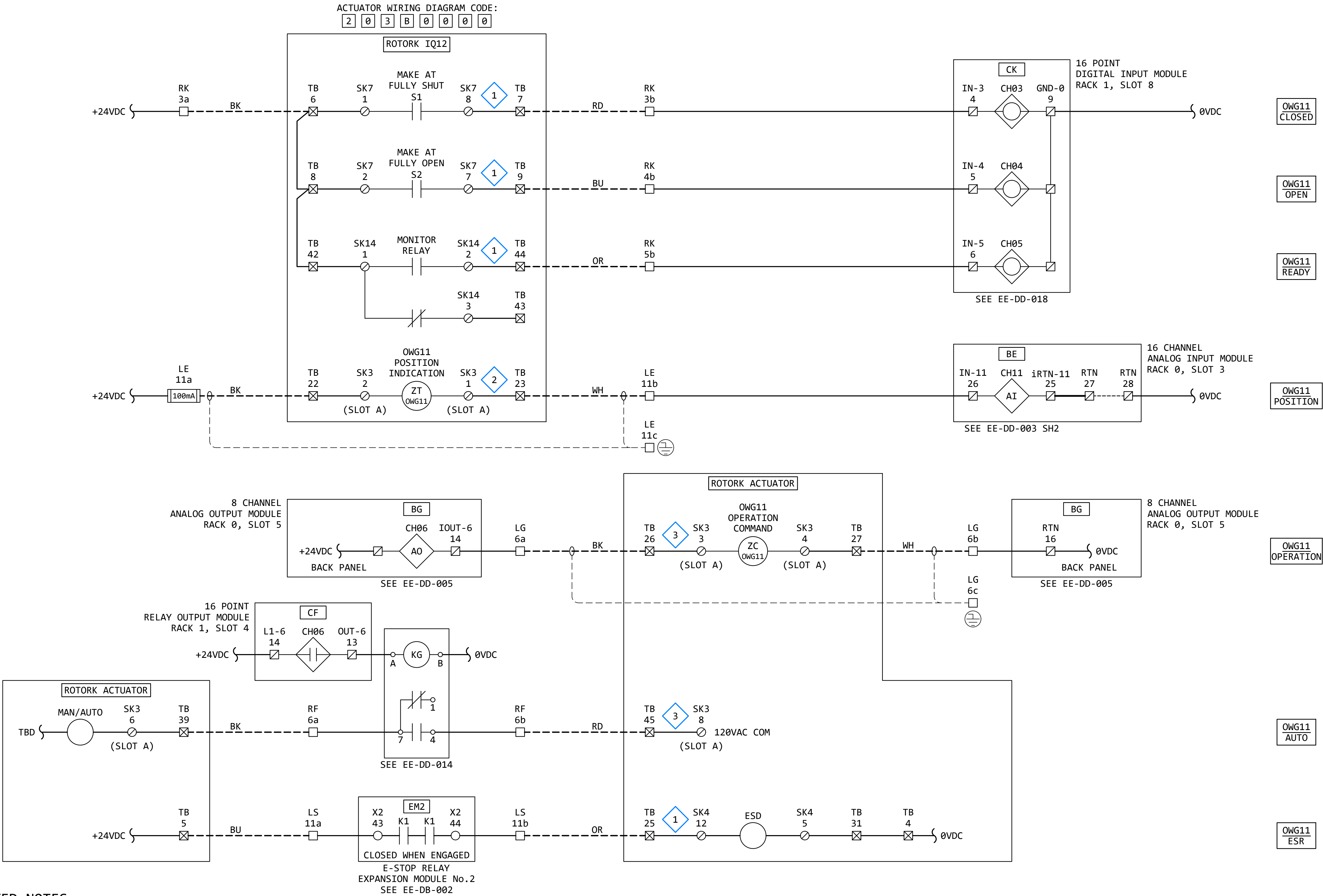
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE	
CHECKED BY	DATE	ELEMENTARY WIRING DIAGRAM EXIT FLUME DS BYPASS ISOLATION GATE (IG10)	
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY
CMH	08/22/2024	HYDRO	SCHEMATICS
SCALE	PROJECT NO.	DWG	REV
NONE	ARL-007	EE-DK-010	0

OWG11
P&W ENTRANCE OVERSHOT WEIR GATE
2'W x 6'H GATE



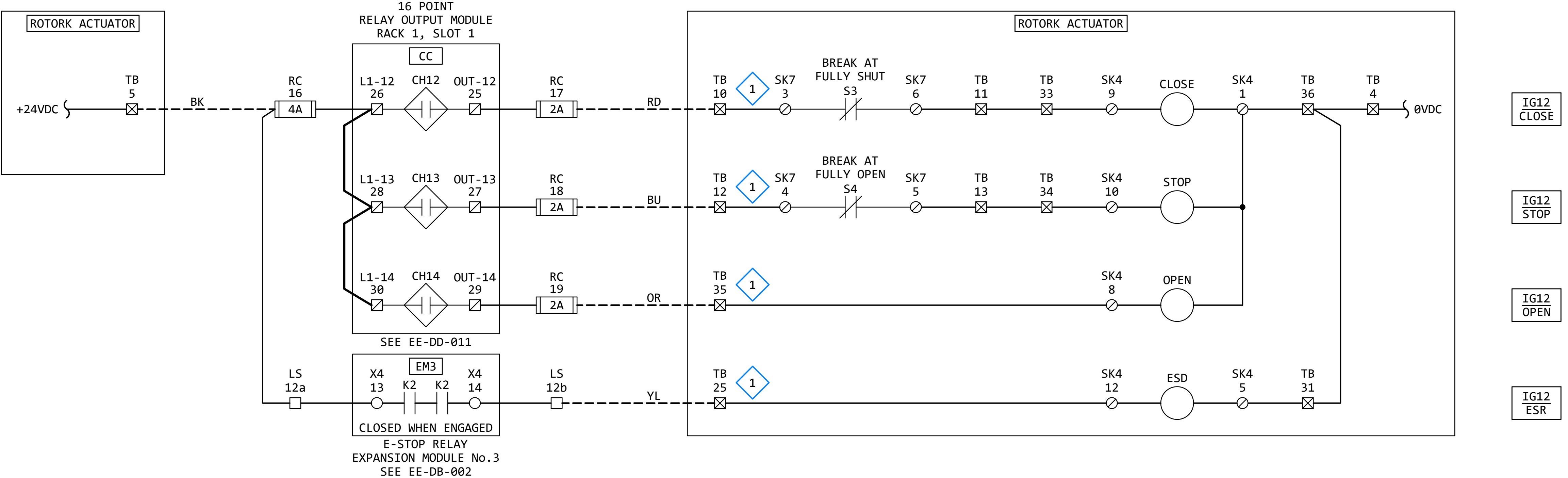
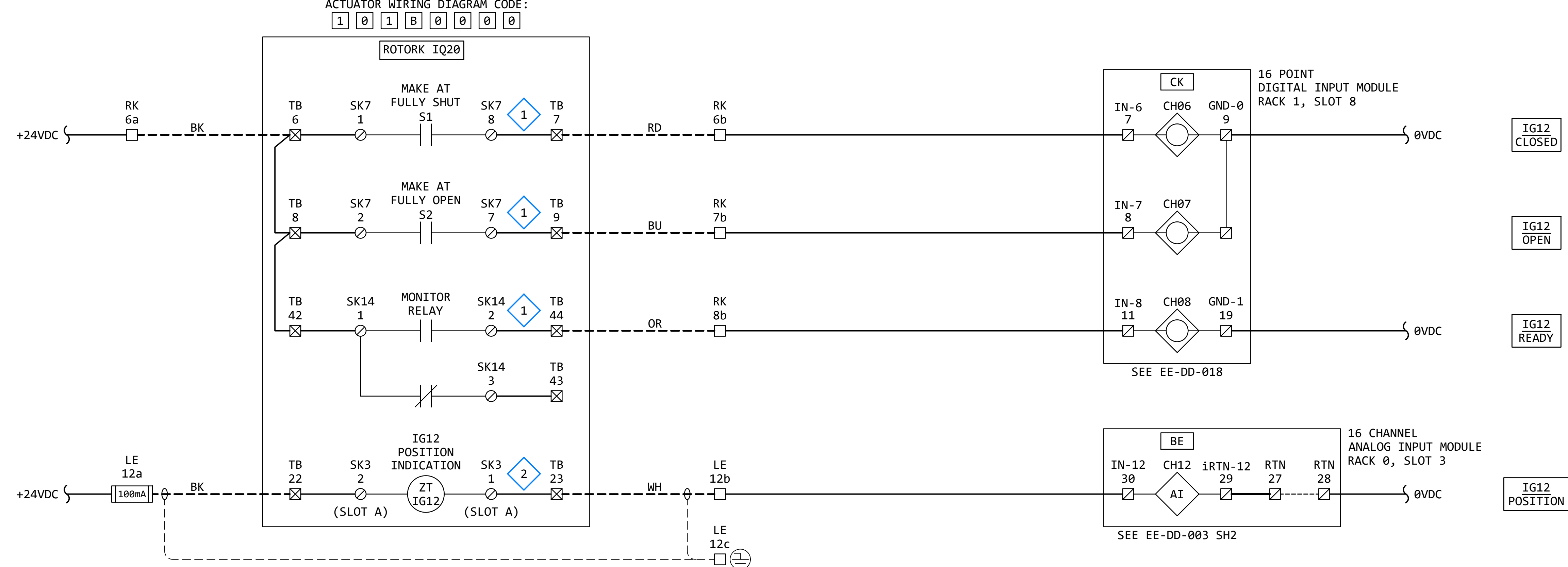
GENERAL NOTES:

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KEYED NOTES:

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- ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)
- ACTUATOR WIRING - OPTIONAL: REQUIRES "ANALOGUE POSITION CONTROL FOLOMATIC" OPTION. (PUB002-041-00, PAGE 13)

IG12
P&W ENTRANCE ISOLATION GATE
2'W x 9'H (18 FT²) GATE
MAX DELTA: 30.0"



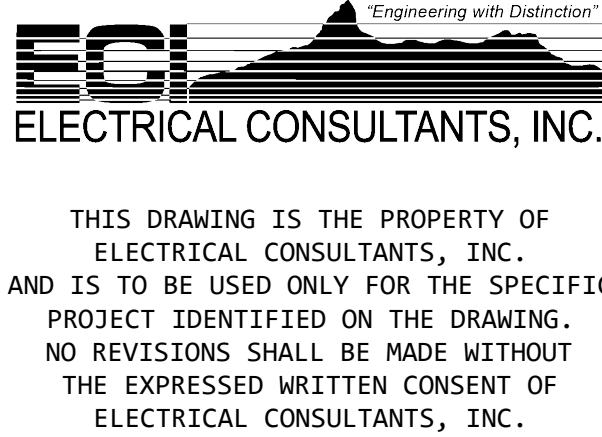
GENERAL NOTES:

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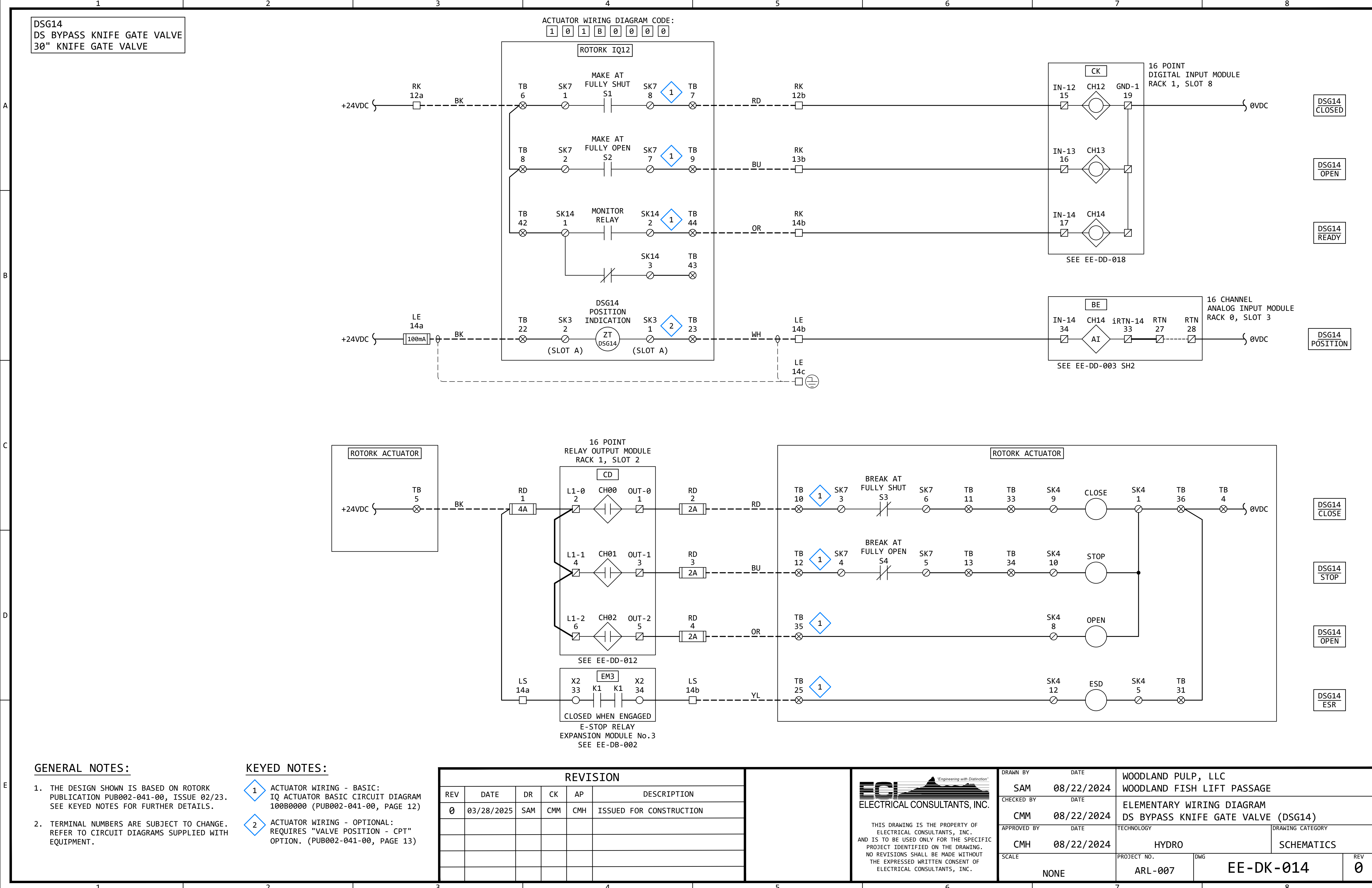
KEYED NOTES:

- ACTUATOR WIRING - BASIC: IQ ACTUATOR BASIC CIRCUIT DIAGRAM 100B0000 (PUB002-041-00, PAGE 12)
- ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)

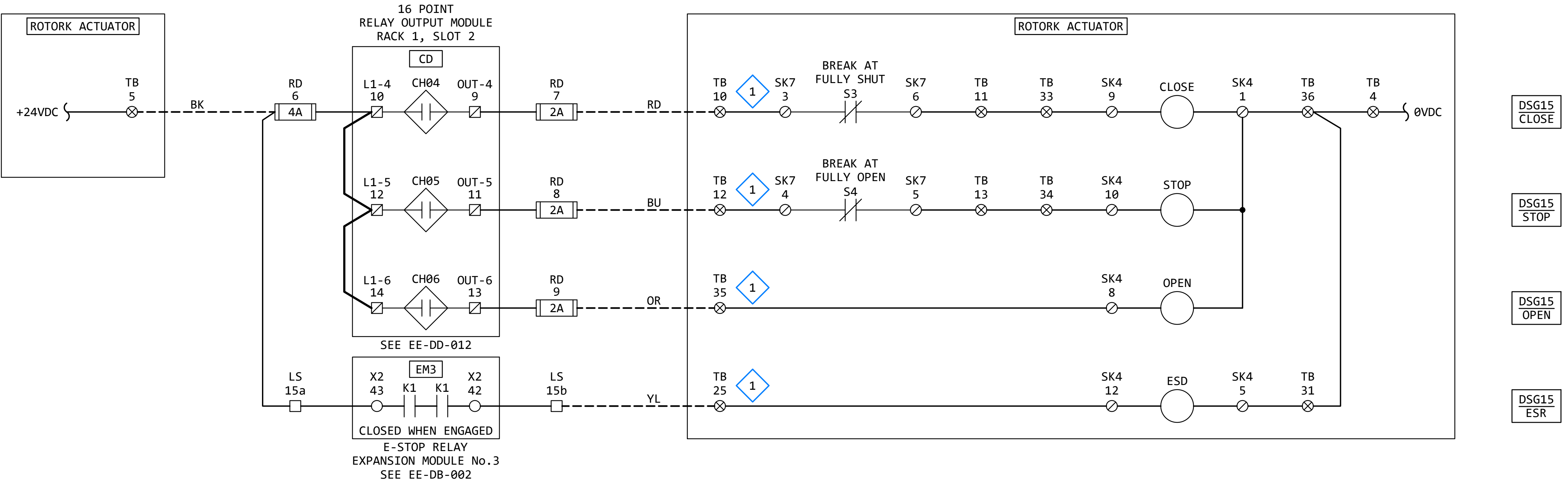
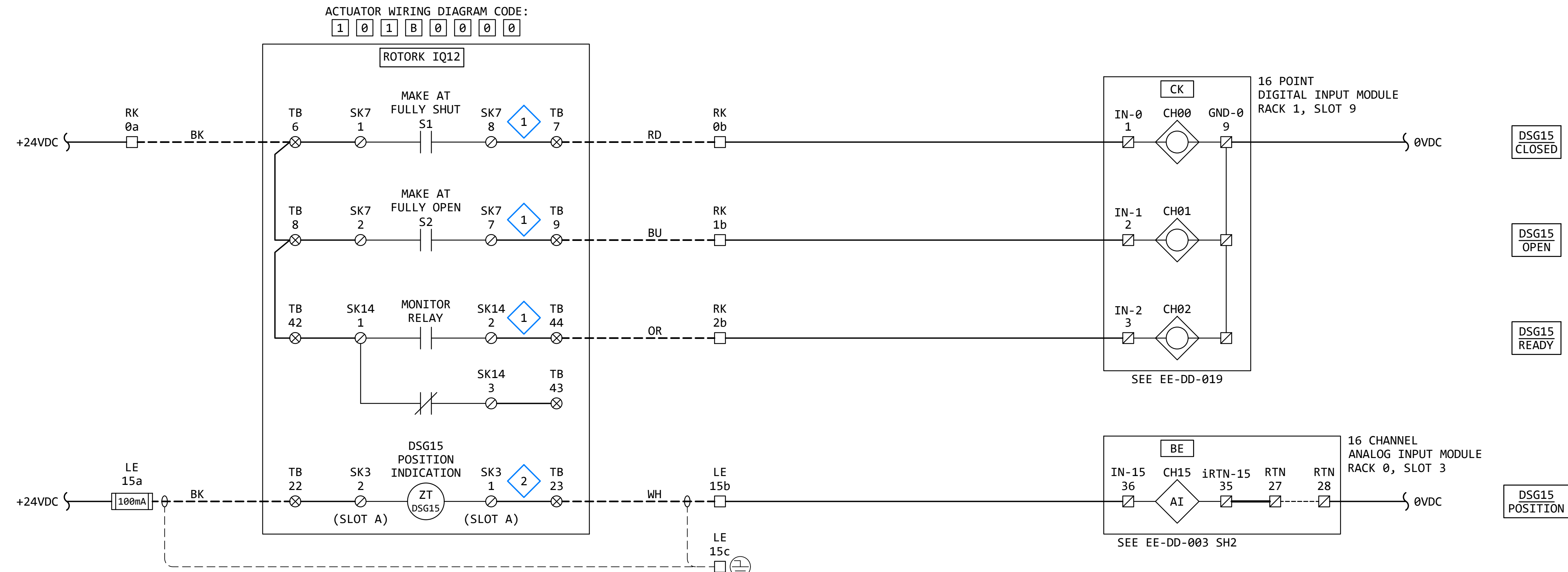
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ELEMENTARY WIRING DIAGRAM P&W ENTRANCE ISOLATION GATE (IG12)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DK-012	0	



DSG15
DS BYPASS KNIFE GATE VALVE
30" KNIFE GATE VALVE



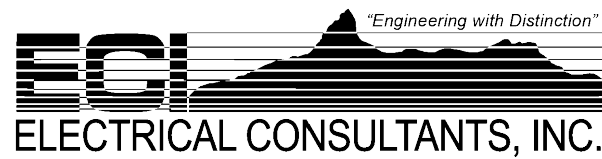
GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK PUBLICATION PUB002-041-00, ISSUE 02/23. SEE KEYED NOTES FOR FURTHER DETAILS.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- ACTUATOR WIRING - BASIC: IQ ACTUATOR BASIC CIRCUIT DIAGRAM 100B0000 (PUB002-041-00, PAGE 12)
- ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)

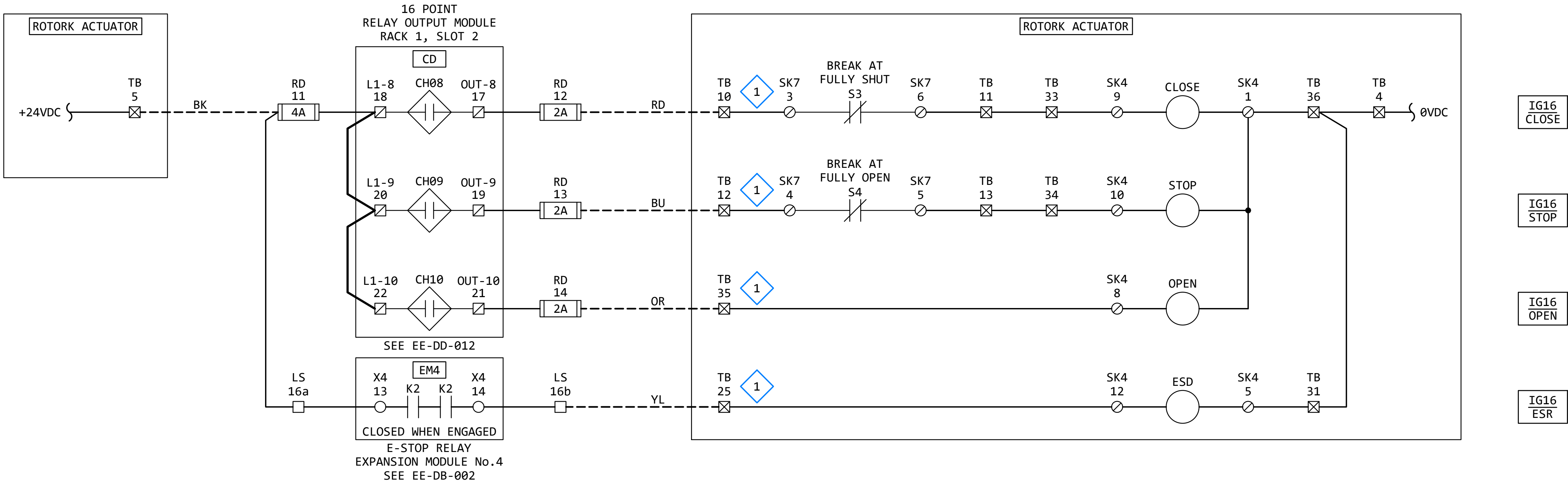
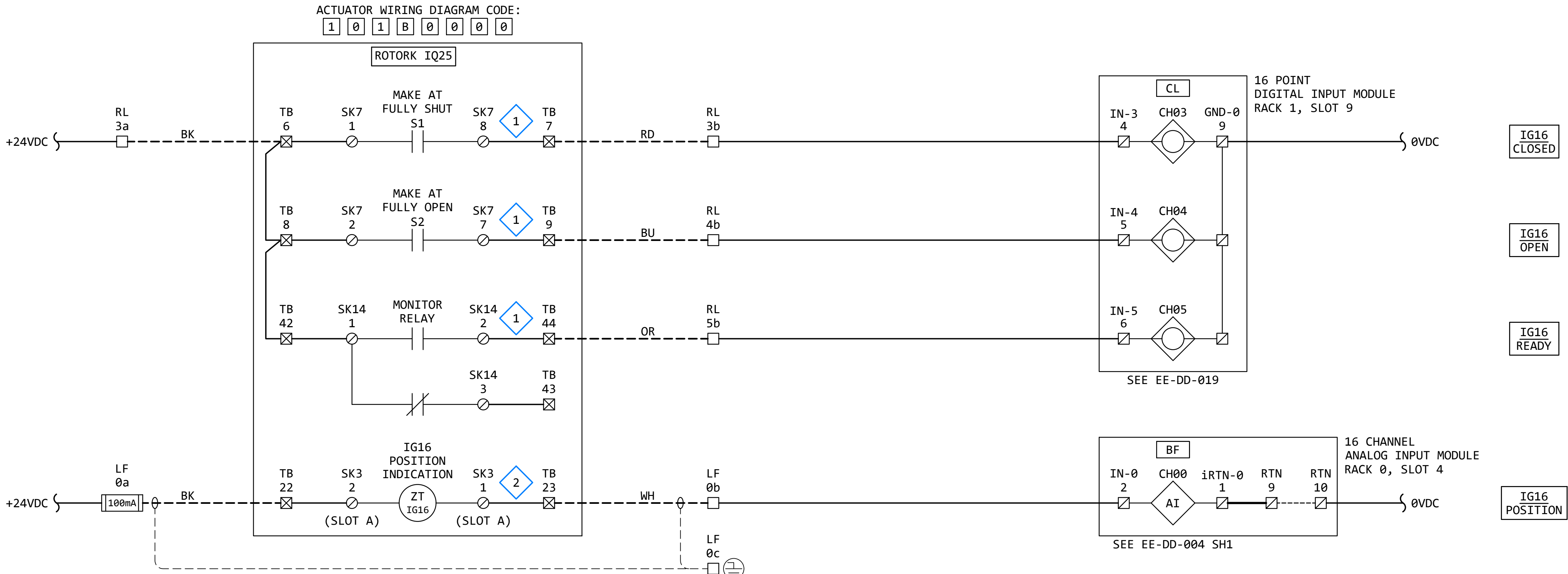
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ELEMENTARY WIRING DIAGRAM DS BYPASS KNIFE GATE VALVE (DSG15)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DK-015	0	

IG16
DS BYPASS ISOLATION GATE
7'W x 7'H (49 FT²) GATE
MAX DELTA: 30"



GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK PUBLICATION PUB002-041-00, ISSUE 02/23. SEE KEYED NOTES FOR FURTHER DETAILS.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- ACTUATOR WIRING - BASIC: IQ ACTUATOR BASIC CIRCUIT DIAGRAM 100B0000 (PUB002-041-00, PAGE 12)
- ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)

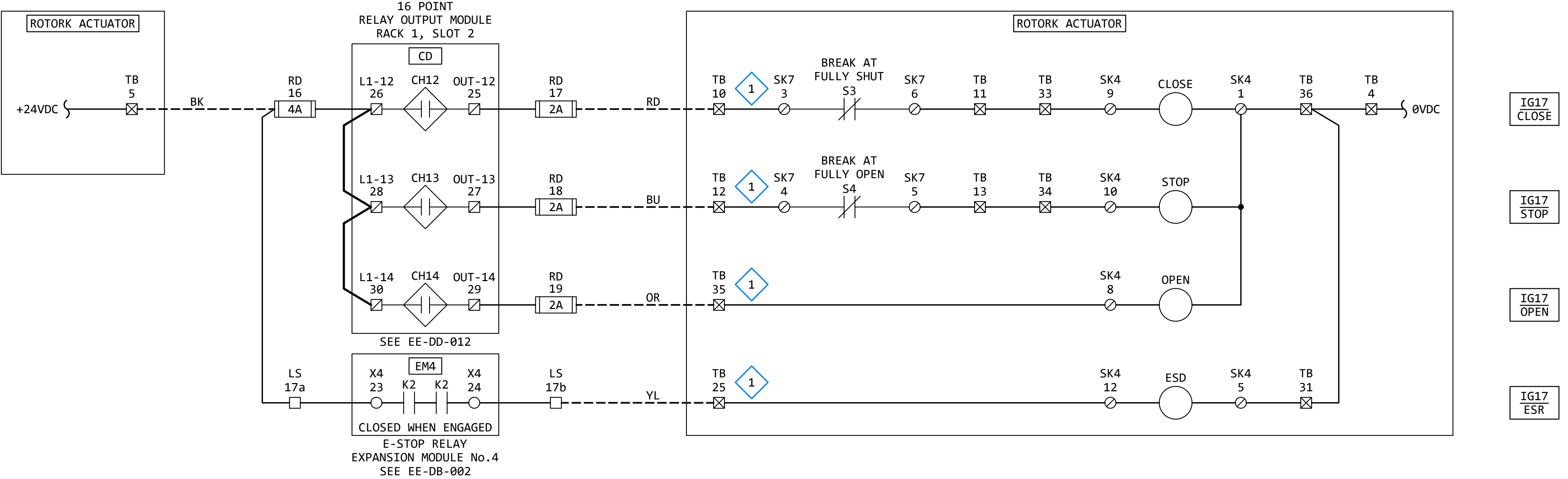
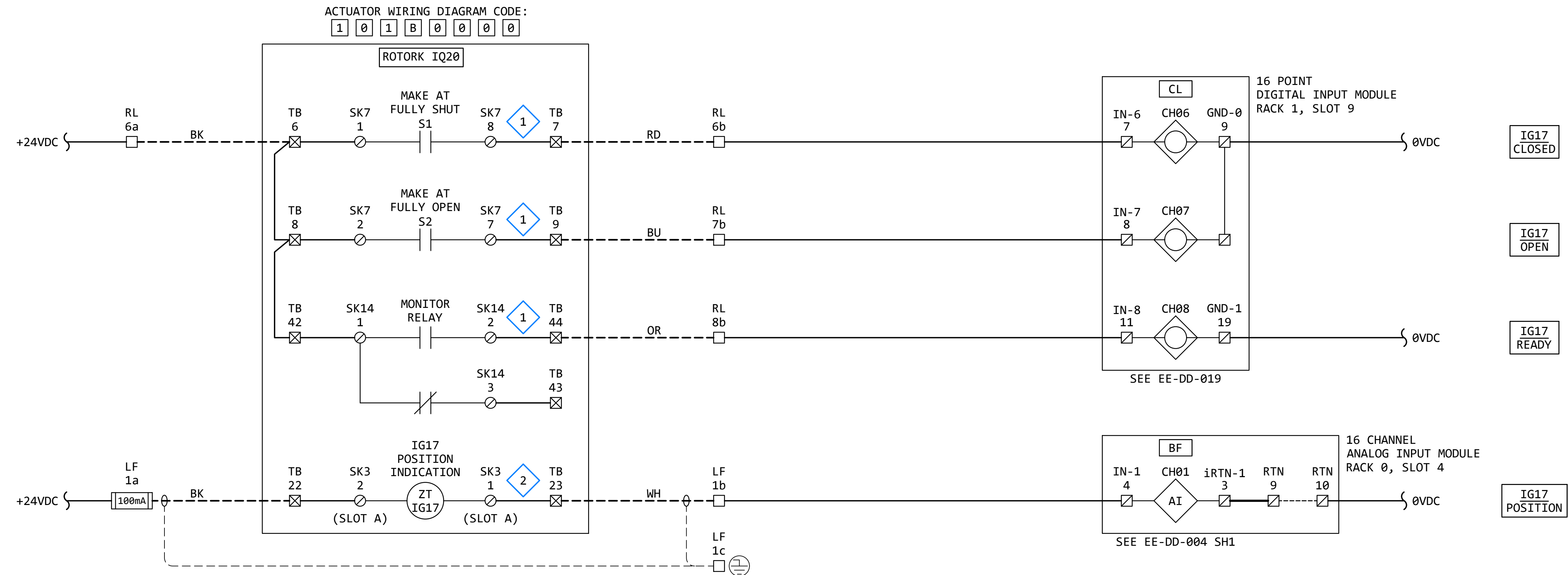
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ELEMENTARY WIRING DIAGRAM DS BYPASS ISOLATION GATE (IG16)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DK-016	0	

IG17
P&W EXIT ISOLATION GATE
2'W x 6.75'H (13.5 FT²) GATE
MAX DELTA: 30"



GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK PUBLICATION PUB002-041-00, ISSUE 02/23. SEE KEYED NOTES FOR FURTHER DETAILS.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- ACTUATOR WIRING - BASIC: IQ ACTUATOR BASIC CIRCUIT DIAGRAM 100B0000 (PUB002-041-00, PAGE 12)
- ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
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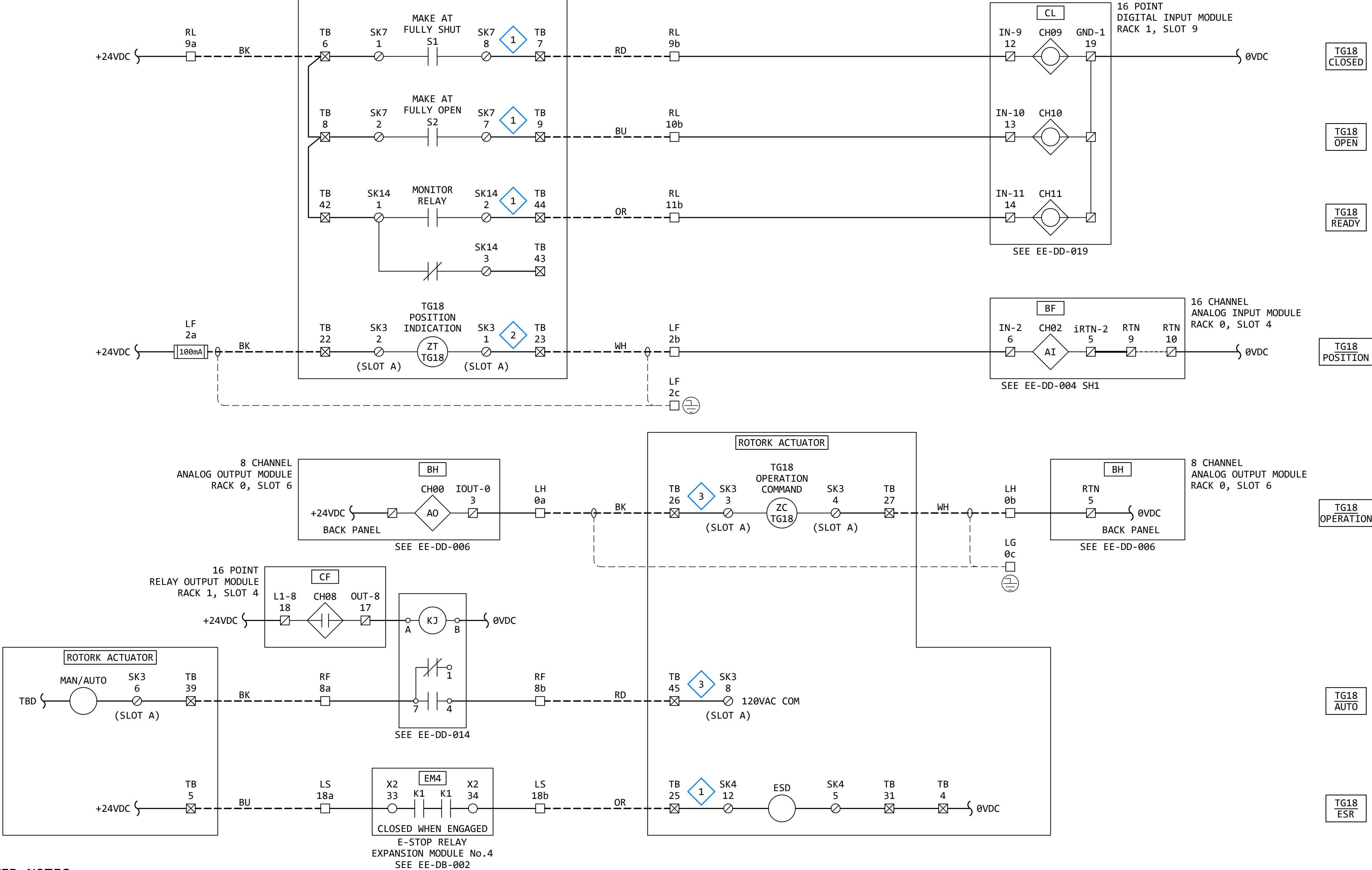
DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE			
CHECKED BY	DATE	ELEMENTARY WIRING DIAGRAM P&W EXIT ISOLATION GATE (IG17)			
APPROVED BY	DATE	TECHNOLOGY		DRAWING CATEGORY	
CMH	08/22/2024	HYDRO		SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV		
NONE	ARL-007	EE-DK-017	0		

TG18
TRAP GATE
V-GATE

ACTUATOR WIRING DIAGRAM CODE:

2 0 3 B 0 0 0 0

ROTORK IQT1000



GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK PUBLICATION PUB002-041-00, ISSUE 02/23. SEE KEYED NOTES FOR FURTHER DETAILS.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- ACTUATOR WIRING - BASIC: IQ ACTUATOR BASIC CIRCUIT DIAGRAM 100B0000 (PUB002-041-00, PAGE 12)
- ACTUATOR WIRING - OPTIONAL: REQUIRES "VALVE POSITION - CPT" OPTION. (PUB002-041-00, PAGE 13)
- ACTUATOR WIRING - OPTIONAL: REQUIRES "ANALOGUE POSITION CONTROL FOLOMATIC" OPTION. (PUB002-041-00, PAGE 13)

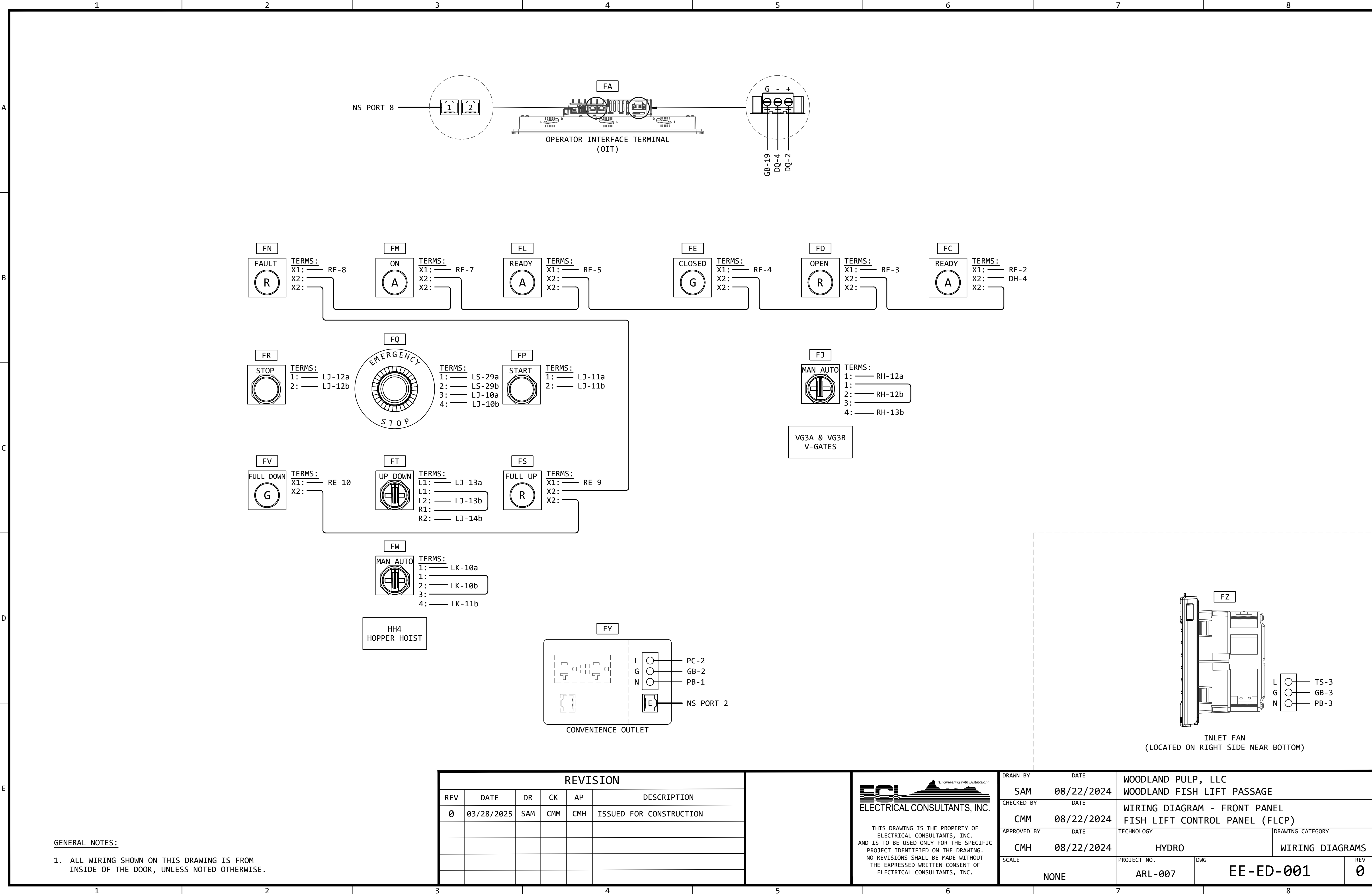
REVISION

REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	ELEMENTARY WIRING DIAGRAM TRAP GATE (TG18)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	SCHEMATICS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-DK-018	0	



GENERAL NOTES:

1. ALL WIRING SHOWN ON THIS DRAWING IS FROM INSIDE OF THE DOOR, UNLESS NOTED OTHERWISE.

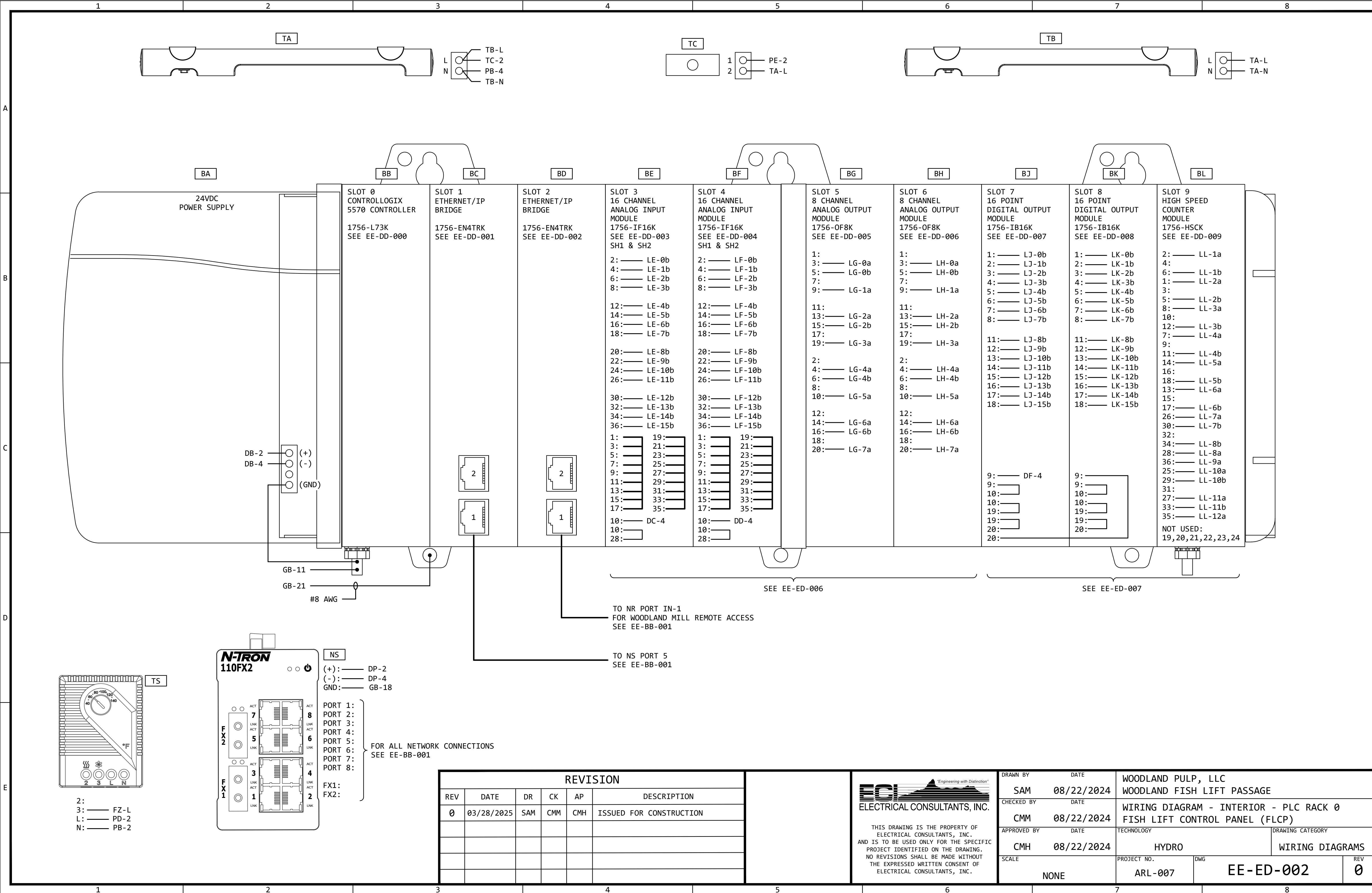
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REV	DATE	DR	CK	AP	DESCRIPTION
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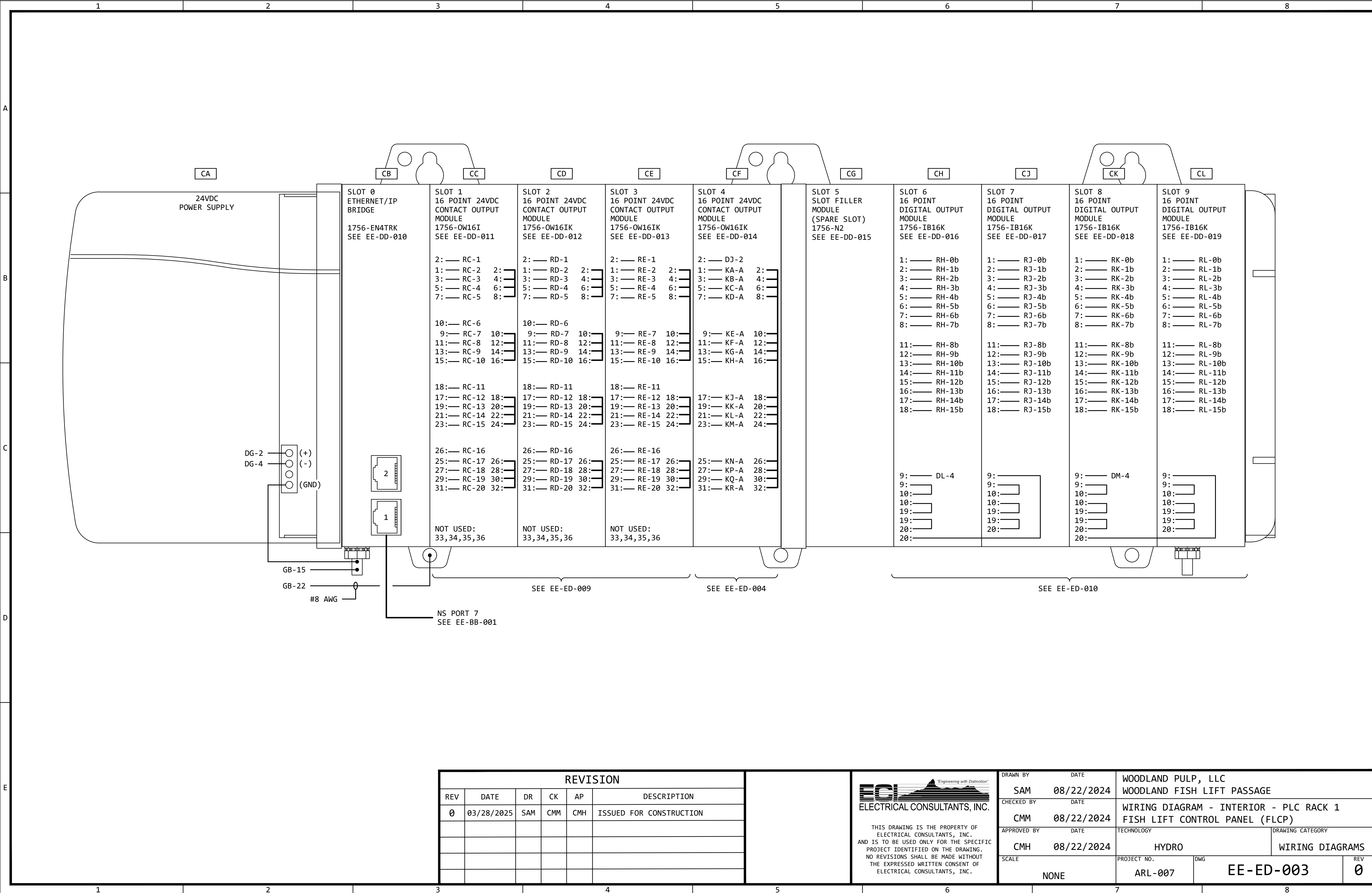


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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	WIRING DIAGRAM - FRONT PANEL FISH LIFT CONTROL PANEL (FLCP)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	WIRING DIAGRAMS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-ED-001	0	





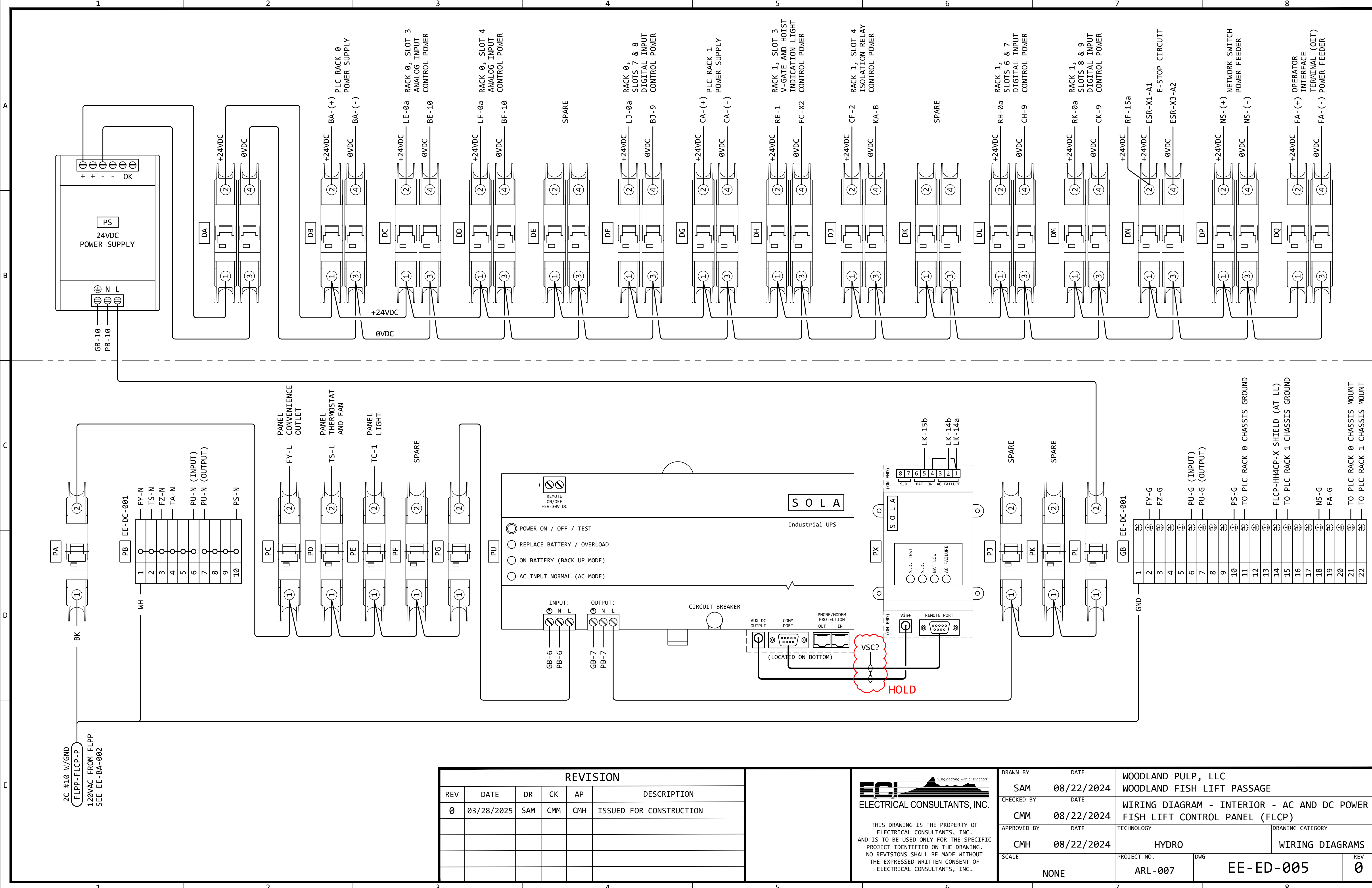
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	WIRING DIAGRAM - INTERIOR - PLC RACK 1 FISH LIFT CONTROL PANEL (FLCP)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	WIRING DIAGRAMS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-ED-003	0	



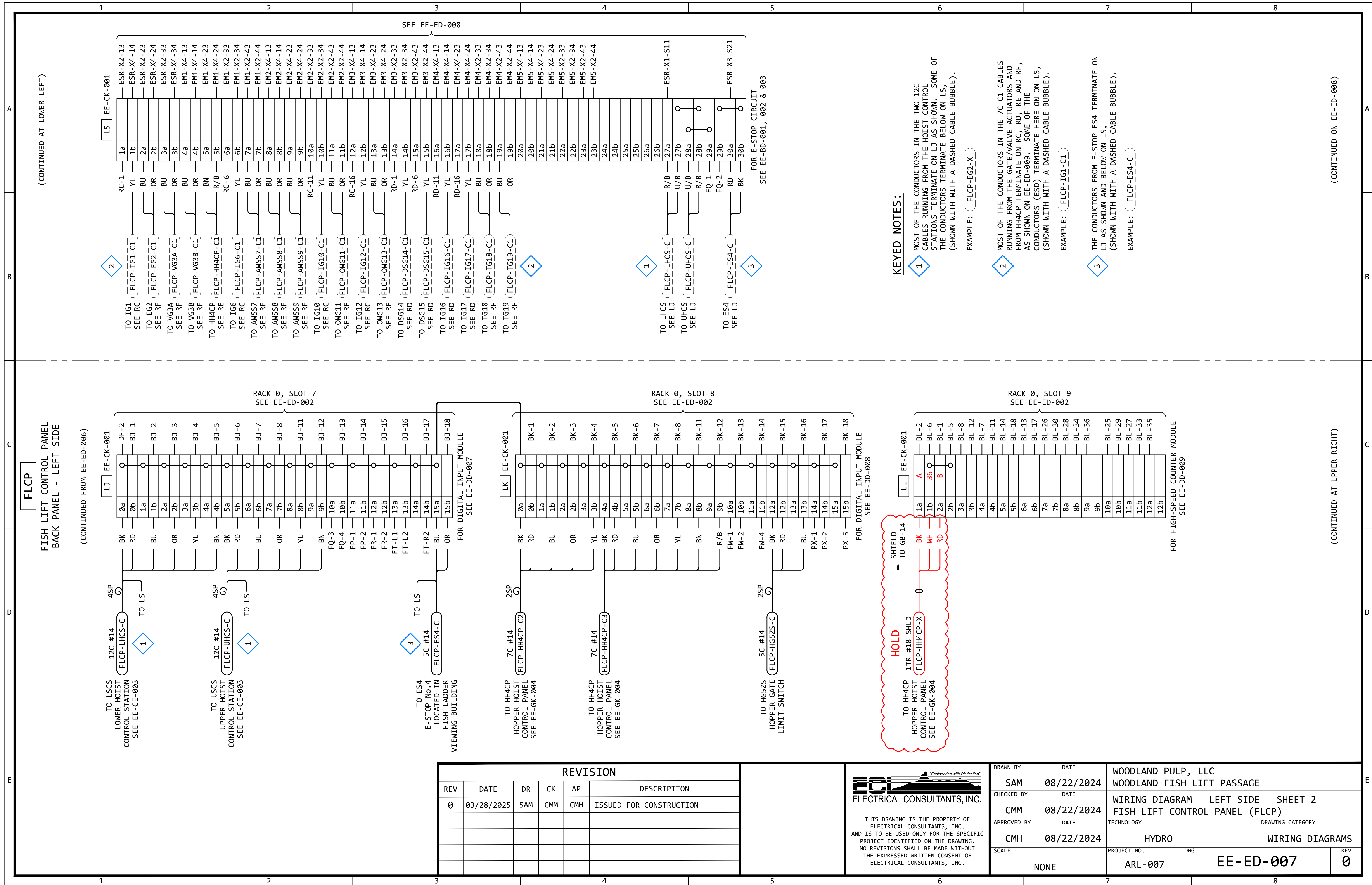
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

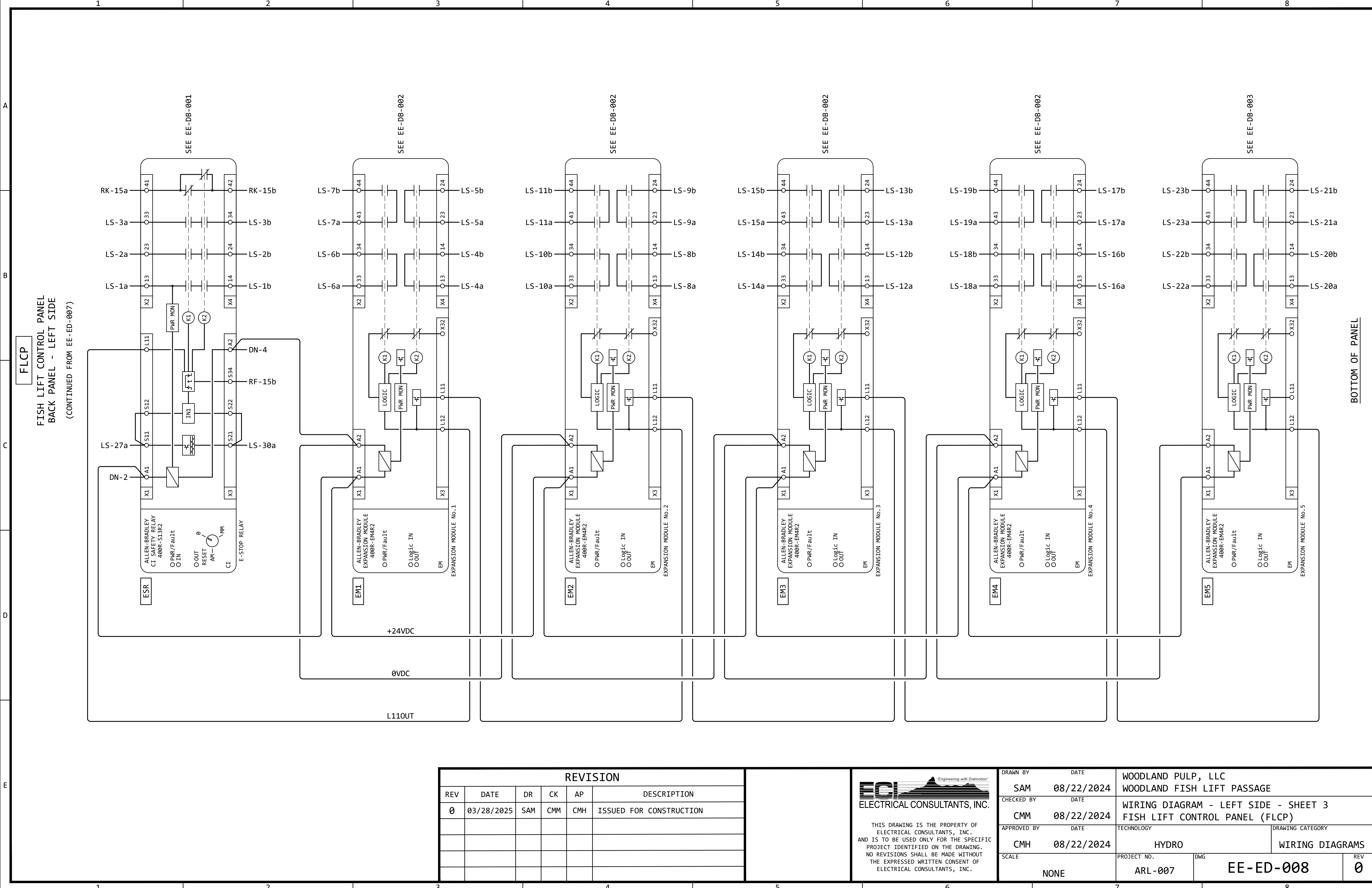
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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE	
CHECKED BY	DATE	WIRING DIAGRAM - INTERIOR - AC AND DC POWER FISH LIFT CONTROL PANEL (FLCP)	
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY
CMH	08/22/2024	HYDRO	WIRING DIAGRAMS
SCALE	PROJECT NO.	DWG	REV
NONE	ARL-007	EE-ED-005	0





REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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Electrical Consultants, Inc.

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	WIRING DIAGRAM - LEFT SIDE - SHEET 3 FISH LIFT CONTROL PANEL (FLCP)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	WIRING DIAGRAMS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-ED-008	0	

KEYED NOTES:

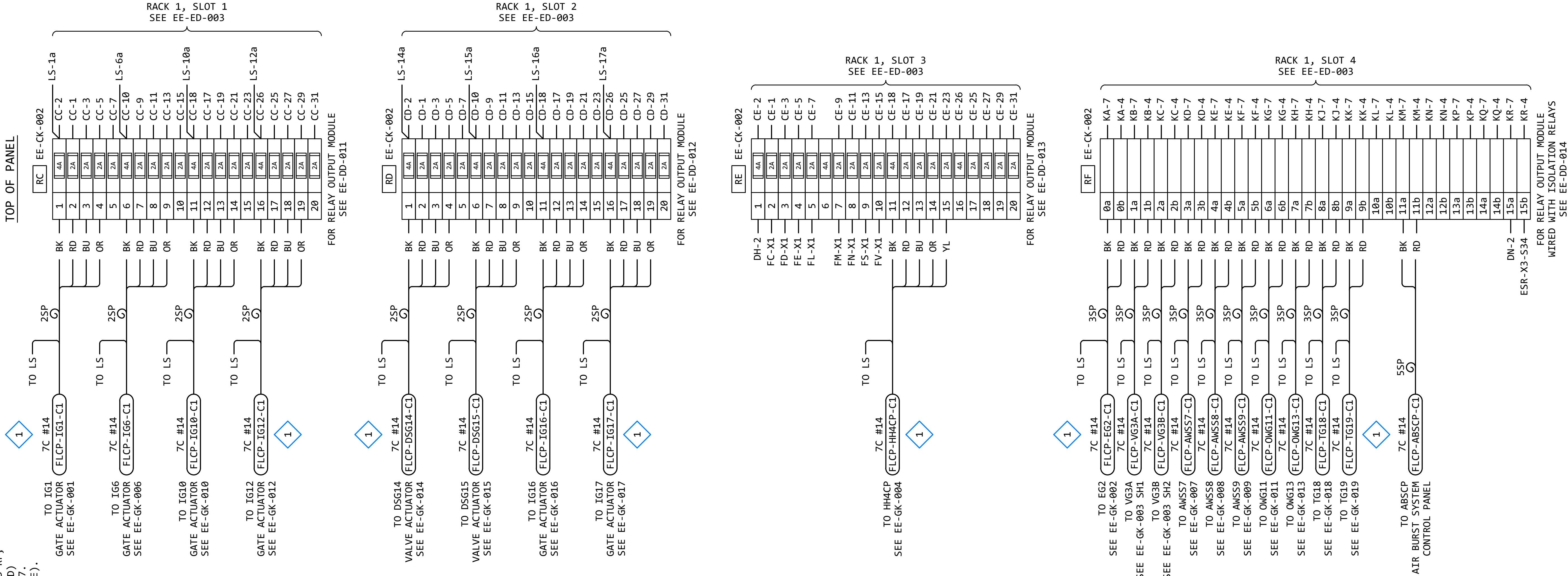
1 MOST OF THE CONDUCTORS IN THE 7C C1 CABLES RUNNING FROM THE GATE/VALVE ACTUATORS AND FROM HH4CP TERMINATE ON RC, RD, RE AND RF, AS SHOWN. SOME OF THE CONDUCTORS (ESD) TERMINATE ON LS, AS SHOWN ON EE-ED-007. (SHOWN WITH WITH A DASHED CABLE BUBBLE).

EXAMPLE: (FLCP-IG1-C1)

FISH LIFT CONTROL PANEL
BACK PANEL - RIGHT SIDE

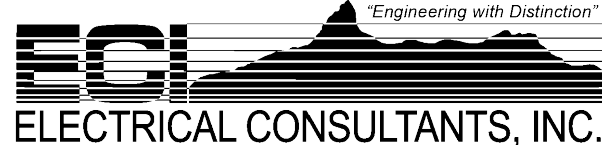
FLCP

TOP OF PANEL



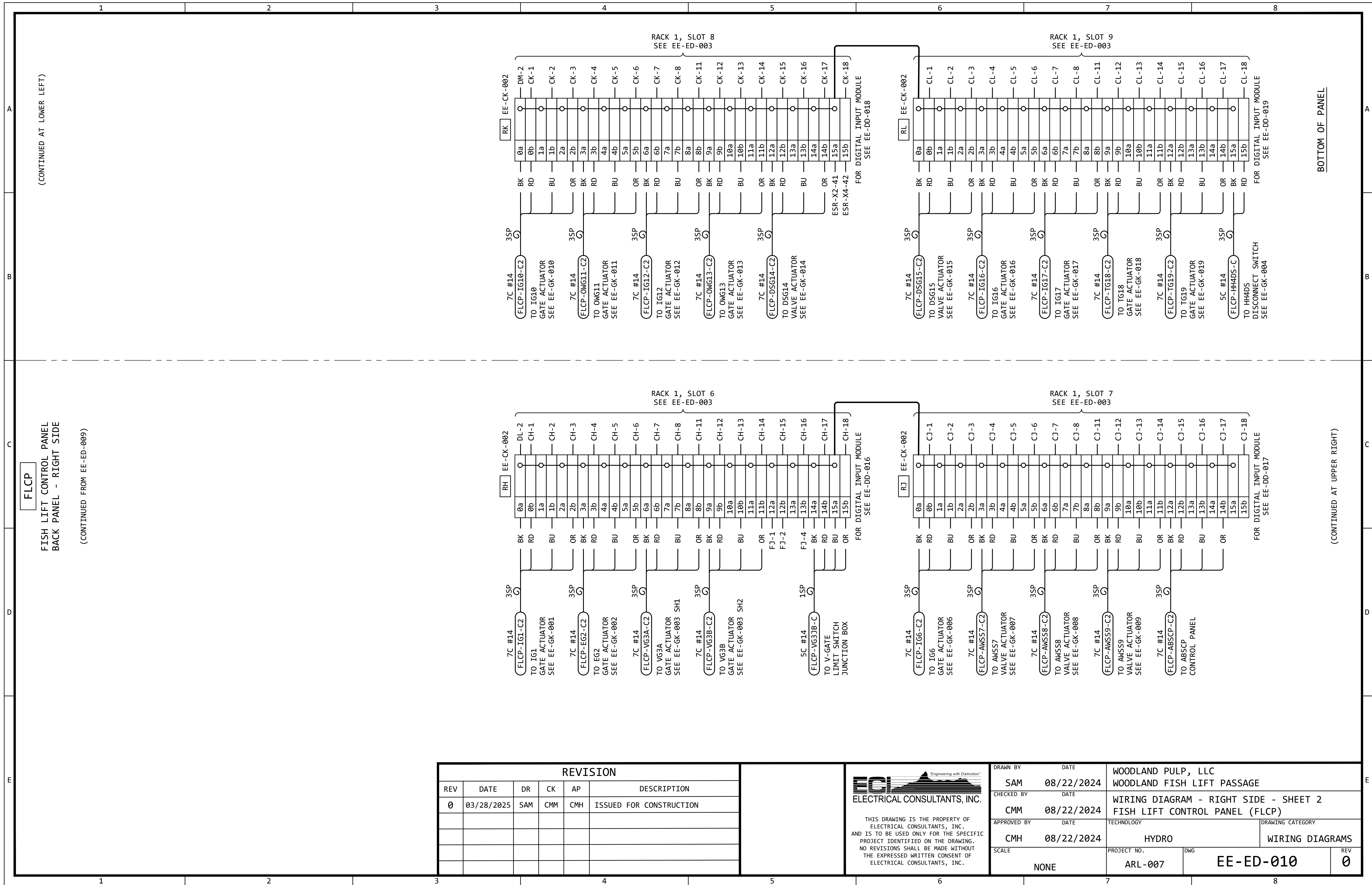
(CONTINUED ON EE-ED-010)

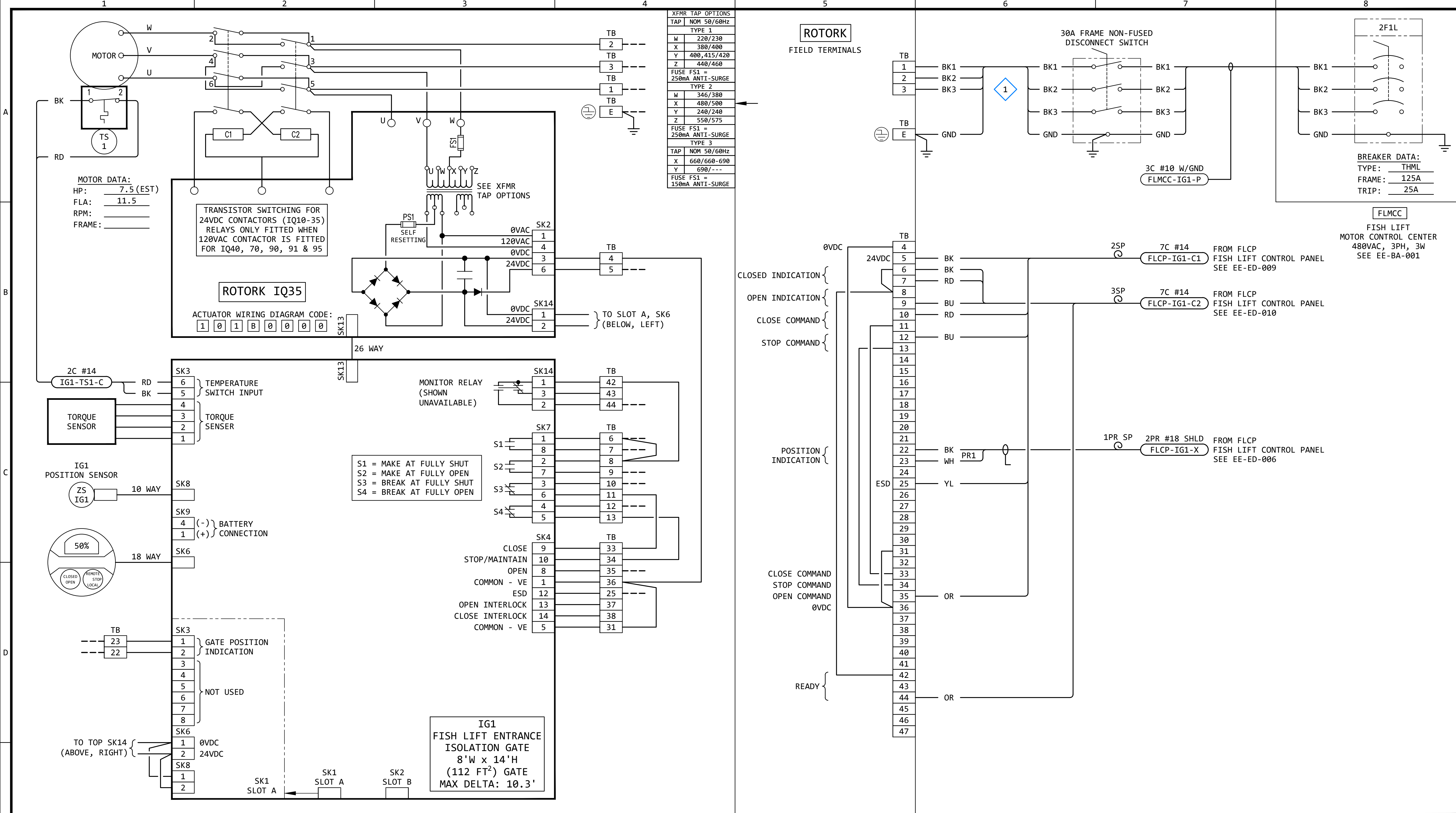
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
SAM	08/22/2024			
CHECKED BY	DATE	WIRING DIAGRAM - RIGHT SIDE - SHEET 1 FISH LIFT CONTROL PANEL (FLCP)		
CMM	08/22/2024			
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	WIRING DIAGRAMS	
SCALE		PROJECT NO.	DWG	REV
NONE		ARL-007	EE-ED-009	0





GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK CIRCUIT DIAGRAM No. 101B0000, ISSUE 6, DATED 160614. SEE EE-DK-001 FOR MORE DETAILS.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- 1 THE CABLES ON THE LOAD SIDE OF THE DISCONNECT SWITCH SHALL MATCH THE LINE SIDE CABLES.

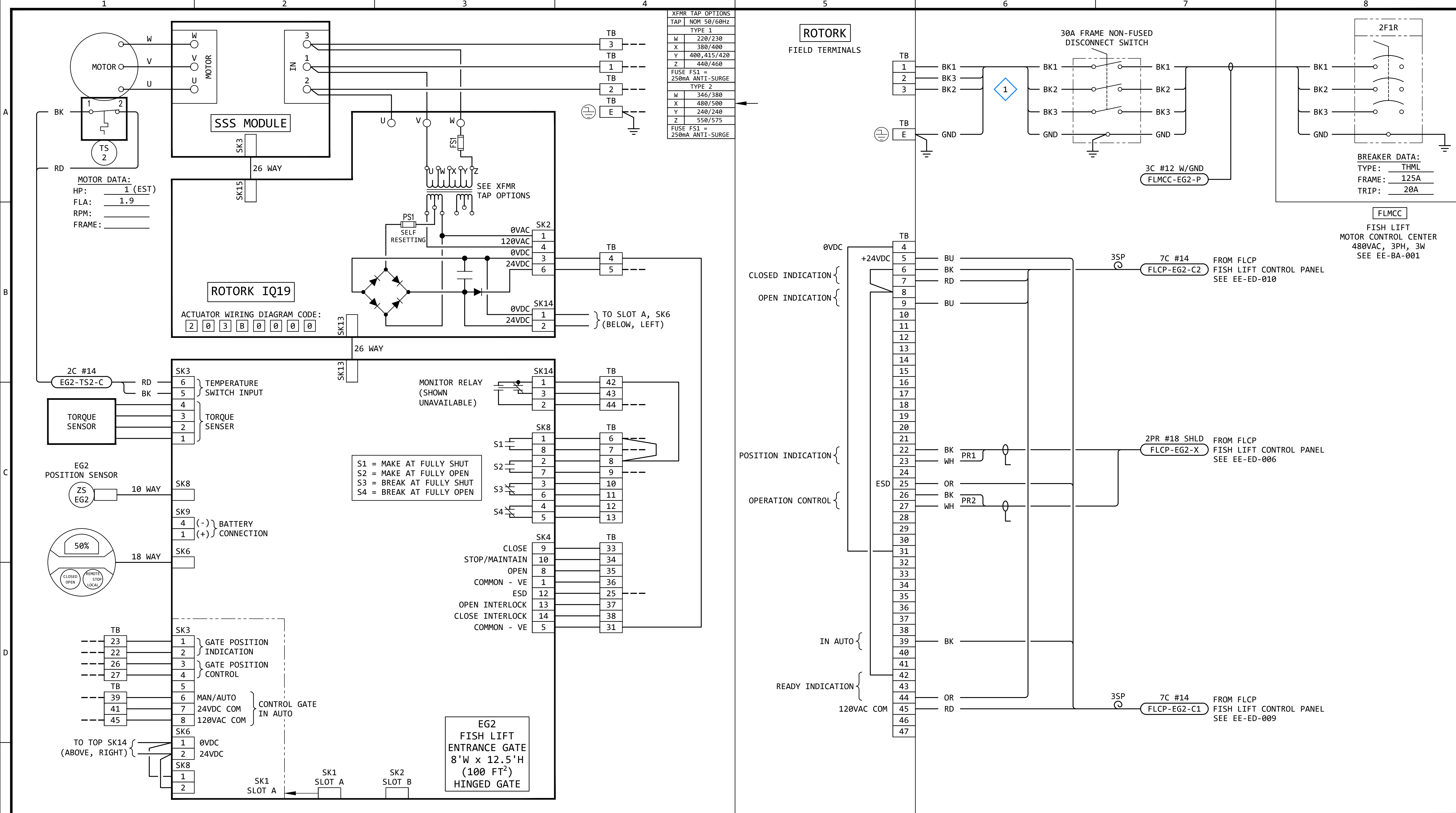
REVISION

REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	INTERCONNECTION DIAGRAM FISH LIFT ENTRANCE ISOLATION GATE (IG1)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	INTERCONNECTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-GK-001	0	



GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK CIRCUIT DIAGRAM No. 203B0000, ISSUE 6, DATED 290520. SEE EE-DK-002 FOR MORE DETAILS.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- 1 THE CABLES ON THE LOAD SIDE OF THE DISCONNECT SWITCH SHALL MATCH THE LINE SIDE CABLES.

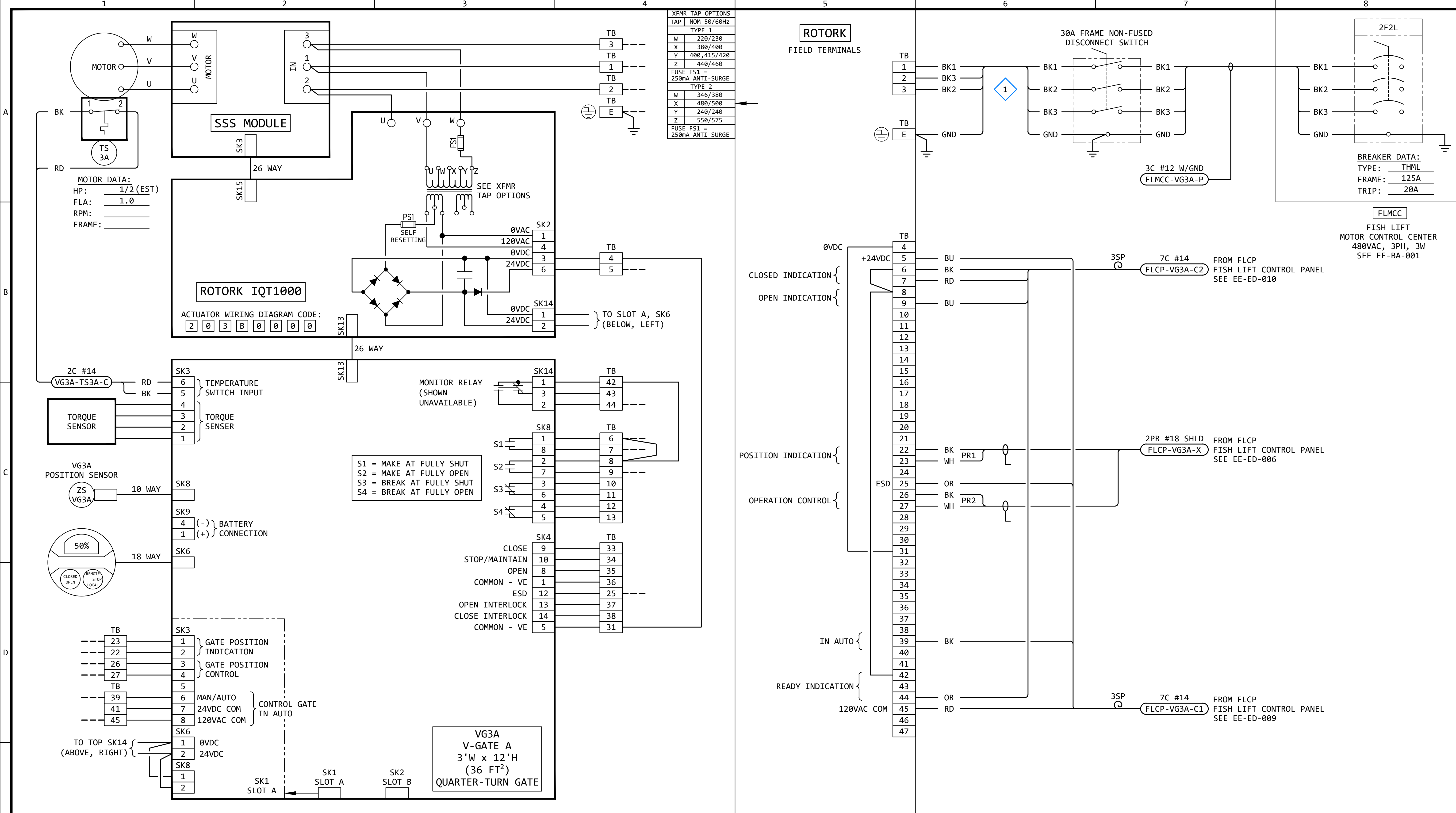
REVISION

REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	INTERCONNECTION DIAGRAM FISH LIFT ENTRANCE GATE (EG2)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	INTERCONNECTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-GK-002	0	



GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK CIRCUIT DIAGRAM No. 203B0000, ISSUE 6, DATED 290520. SEE EE-DK-002 FOR MORE DETAILS.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- 1 THE CABLES ON THE LOAD SIDE OF THE DISCONNECT SWITCH SHALL MATCH THE LINE SIDE CABLES.

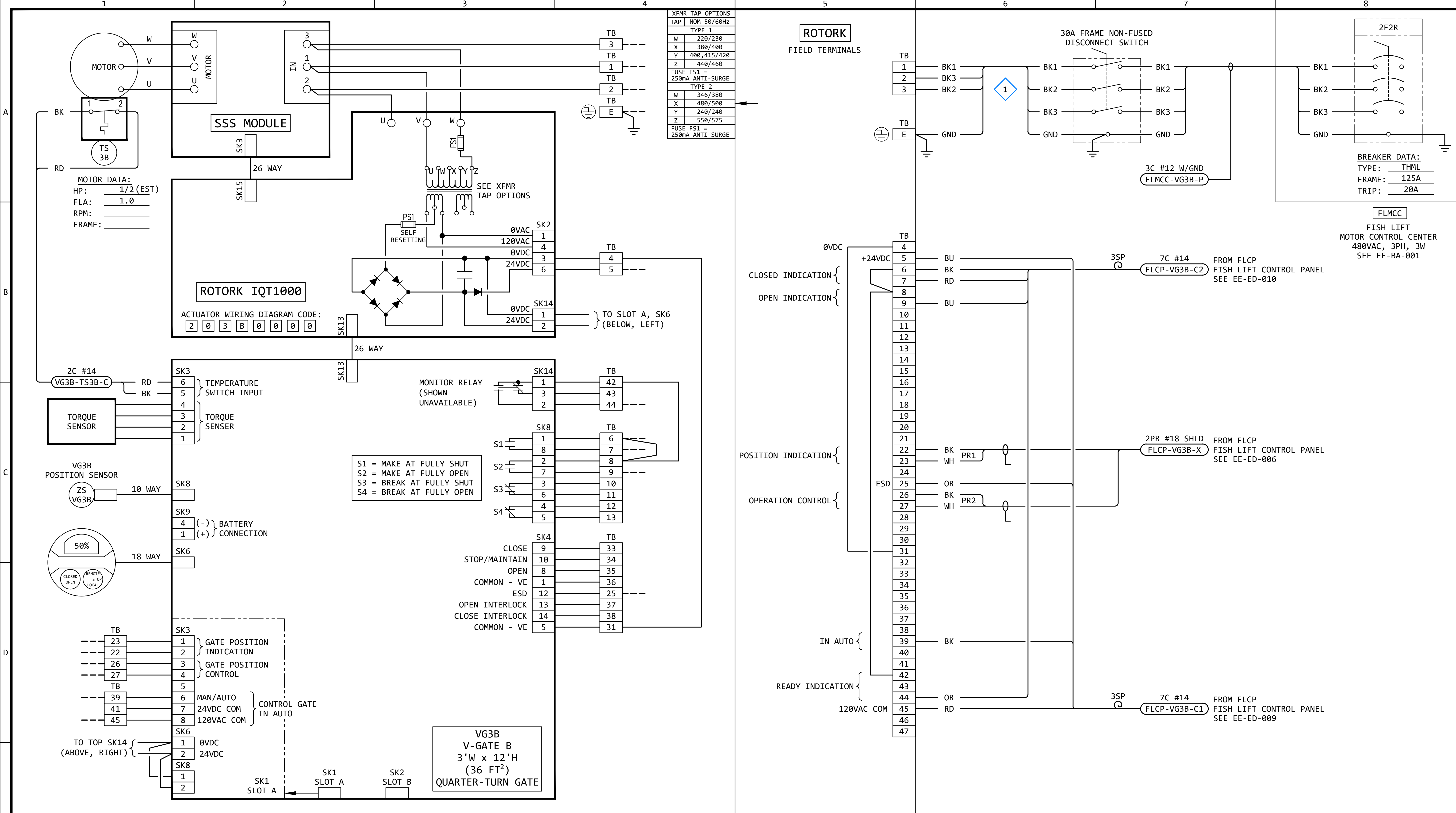
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REV	DATE	DR	CK	AP	DESCRIPTION
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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE	
CHECKED BY	DATE	INTERCONNECTION DIAGRAM V-GATE A (VG3A)	
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY
CMH	02/22/2024	HYDRO	INTERCONNECTS
SCALE	PROJECT NO.	DWG	REV
NONE	ARL-007	EE-GK-003 SH1	0



GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK CIRCUIT DIAGRAM No. 203B0000, ISSUE 6, DATED 290520. SEE EE-DK-002 FOR MORE DETAILS.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- 1 THE CABLES ON THE LOAD SIDE OF THE DISCONNECT SWITCH SHALL MATCH THE LINE SIDE CABLES.

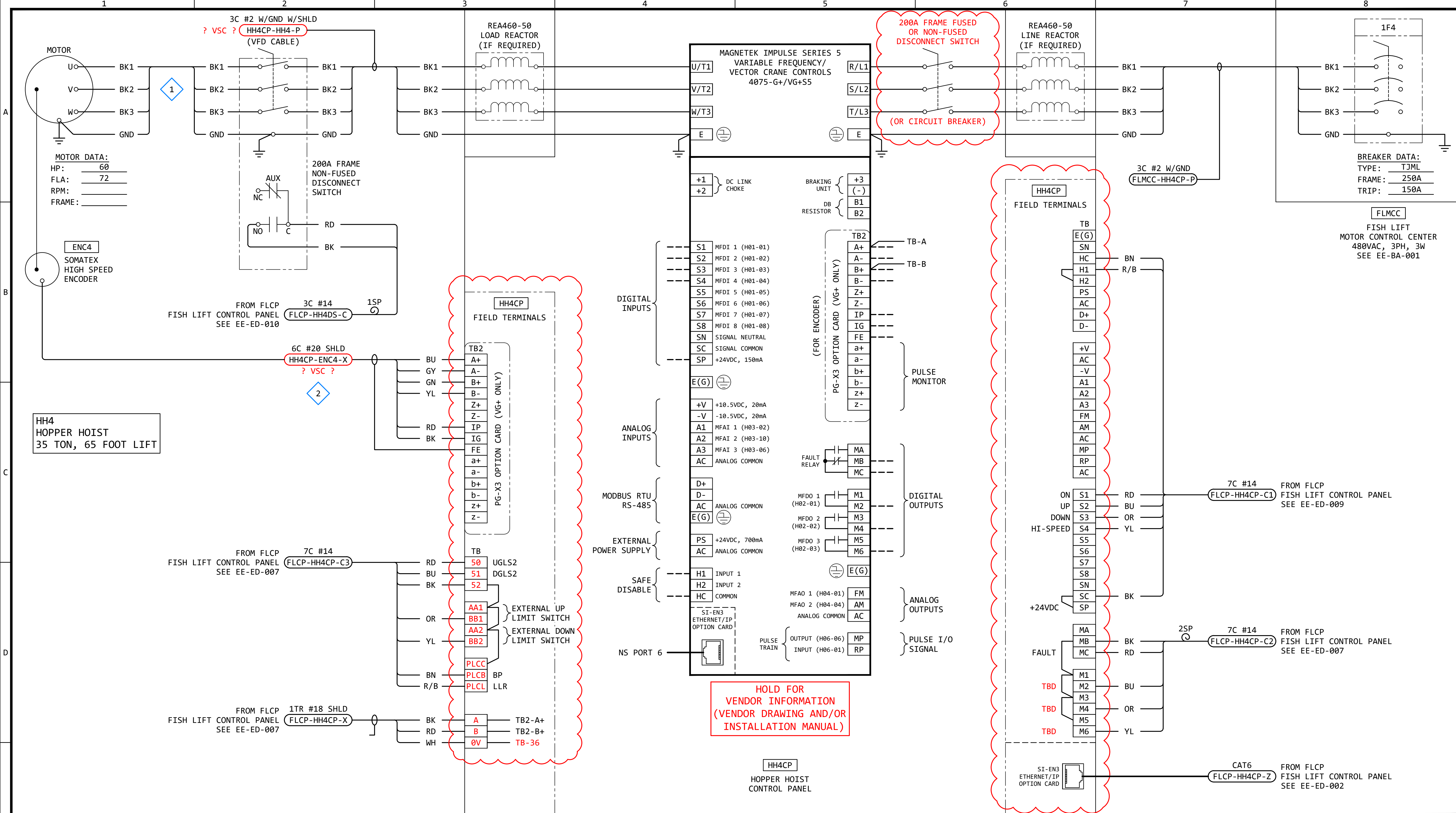
REVISION

REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	INTERCONNECTION DIAGRAM V-GATE B (VG3B)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	02/22/2024	HYDRO	INTERCONNECTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-GK-003 SH2	0	



GENERAL NOTES:

1. THE DESIGN SHOWN IS BASED ON MAGNETEK IMPULSE G+/VG+ SERIES 5 TECHNICAL MANUAL, DATED AUGUST 2023.
2. TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- 1 THE CABLES ON THE LOAD SIDE OF THE DISCONNECT SWITCH SHALL MATCH THE LINE SIDE CABLES.
- 2 USE TWISTED PAIR, SHIELDED CABLE 100 OHM IMPEDANCE, LESS THAN 300FT. (BELDEN 9730 OR MAGNETEK R-20/6, R-22/6, OR EQUIVALENT).

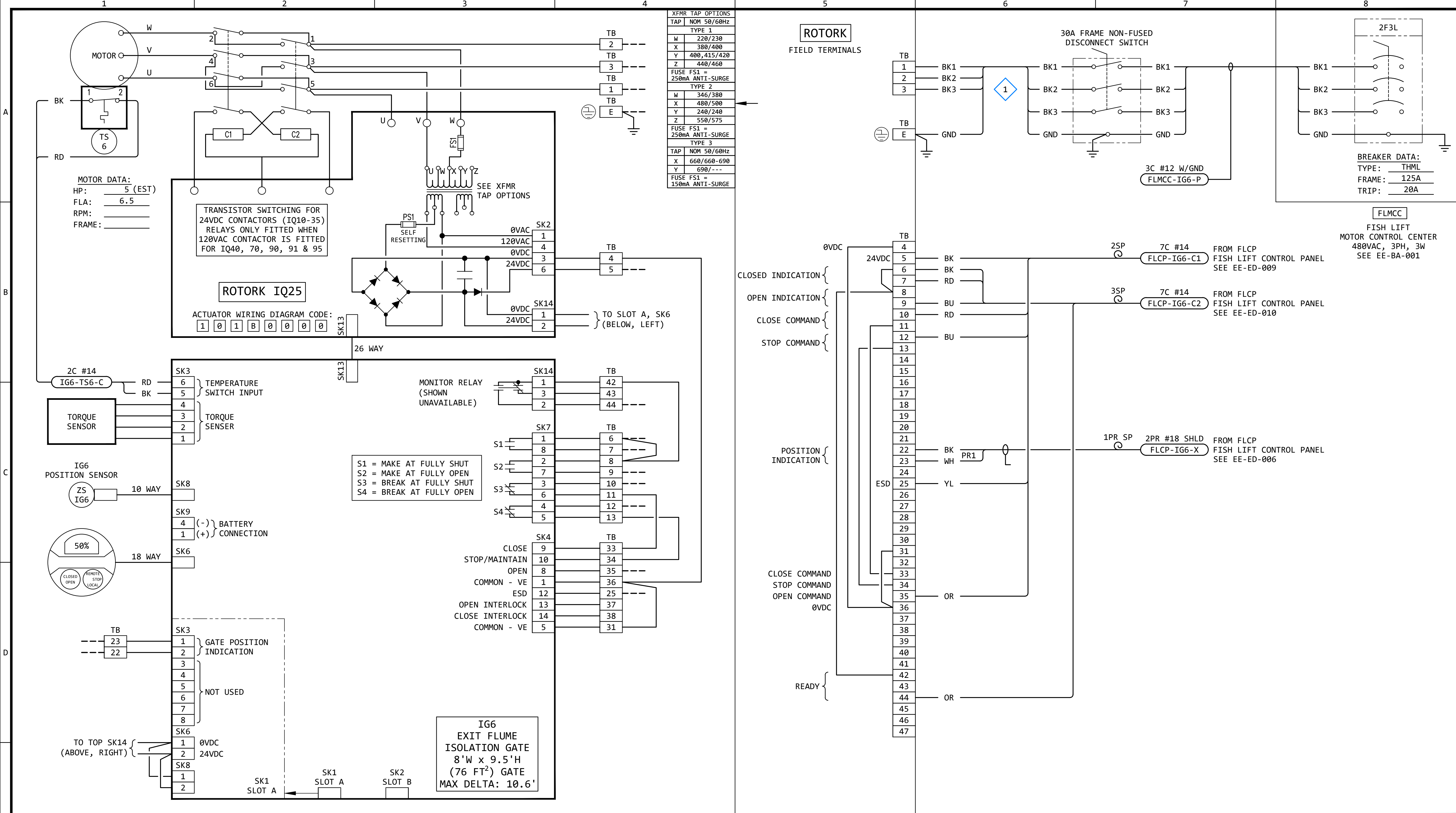
REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	INTERCONNECTION DIAGRAM HOPPER HOIST (HH4)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	INTERCONNECTS	
SCALE	NONE	PROJECT NO.	DWG	REV
		ARL-007	EE-GK-004	0



GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK CIRCUIT DIAGRAM No. 101B0000, ISSUE 6, DATED 160614. SEE EE-DK-001 FOR MORE DETAILS.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- 1 THE CABLES ON THE LOAD SIDE OF THE DISCONNECT SWITCH SHALL MATCH THE LINE SIDE CABLES.

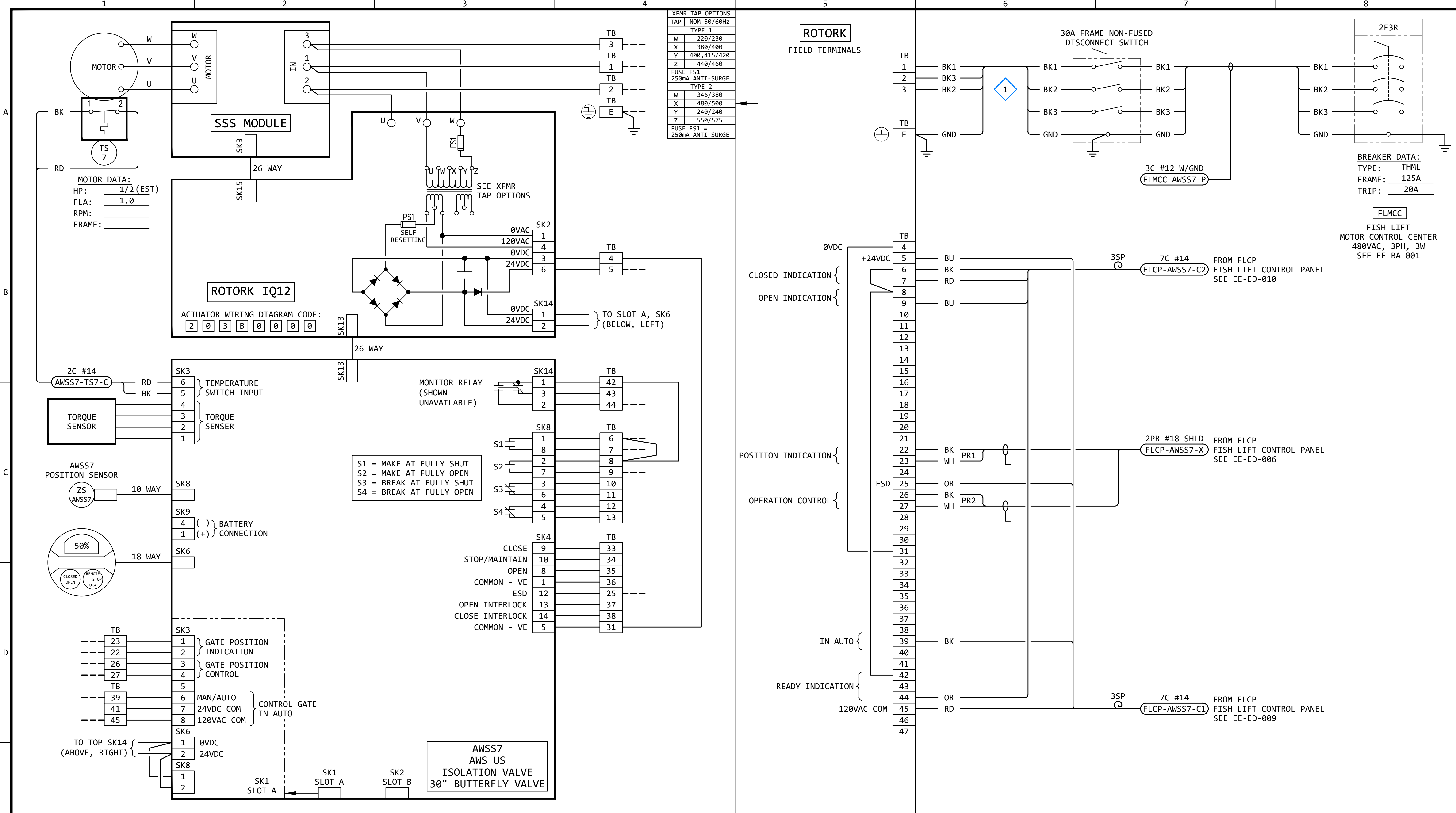
REVISION

REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	INTERCONNECTION DIAGRAM EXIT FLUME ISOLATION GATE (IG6)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	INTERCONNECTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-GK-006	0	



GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK CIRCUIT DIAGRAM No. 203B0000, ISSUE 6, DATED 290520. SEE EE-DK-002 FOR MORE DETAILS.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- 1 THE CABLES ON THE LOAD SIDE OF THE DISCONNECT SWITCH SHALL MATCH THE LINE SIDE CABLES.

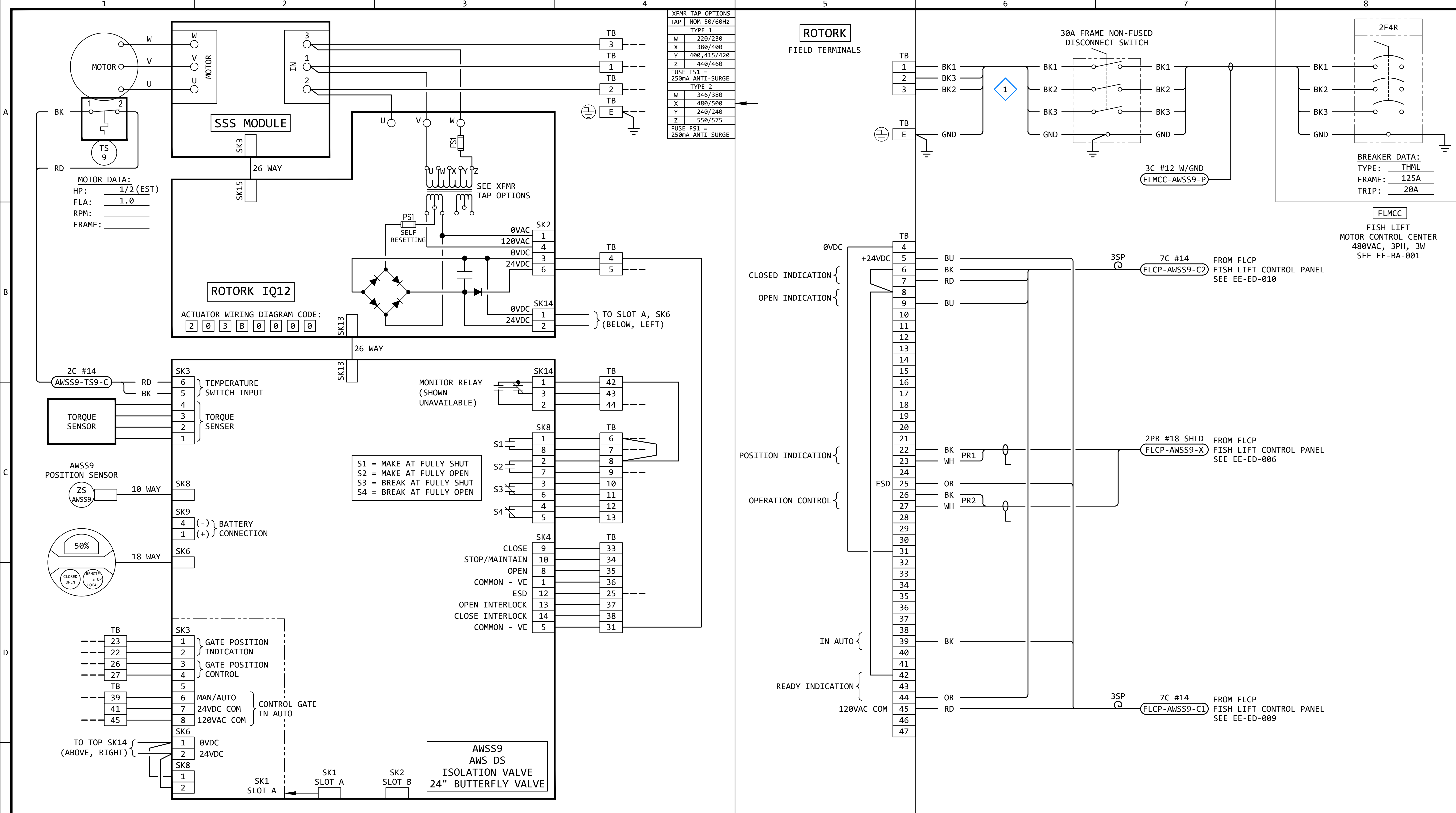
REVISION

REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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ELECTRICAL CONSULTANTS, INC.

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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	INTERCONNECTION DIAGRAM		
CMM	08/22/2024	AWS US ISOLATION VALVE (AWS7)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	INTERCONNECTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-GK-007	0	



GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK CIRCUIT DIAGRAM No. 203B0000, ISSUE 6, DATED 290520. SEE EE-DK-002 FOR MORE DETAILS.
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KEYED NOTES:

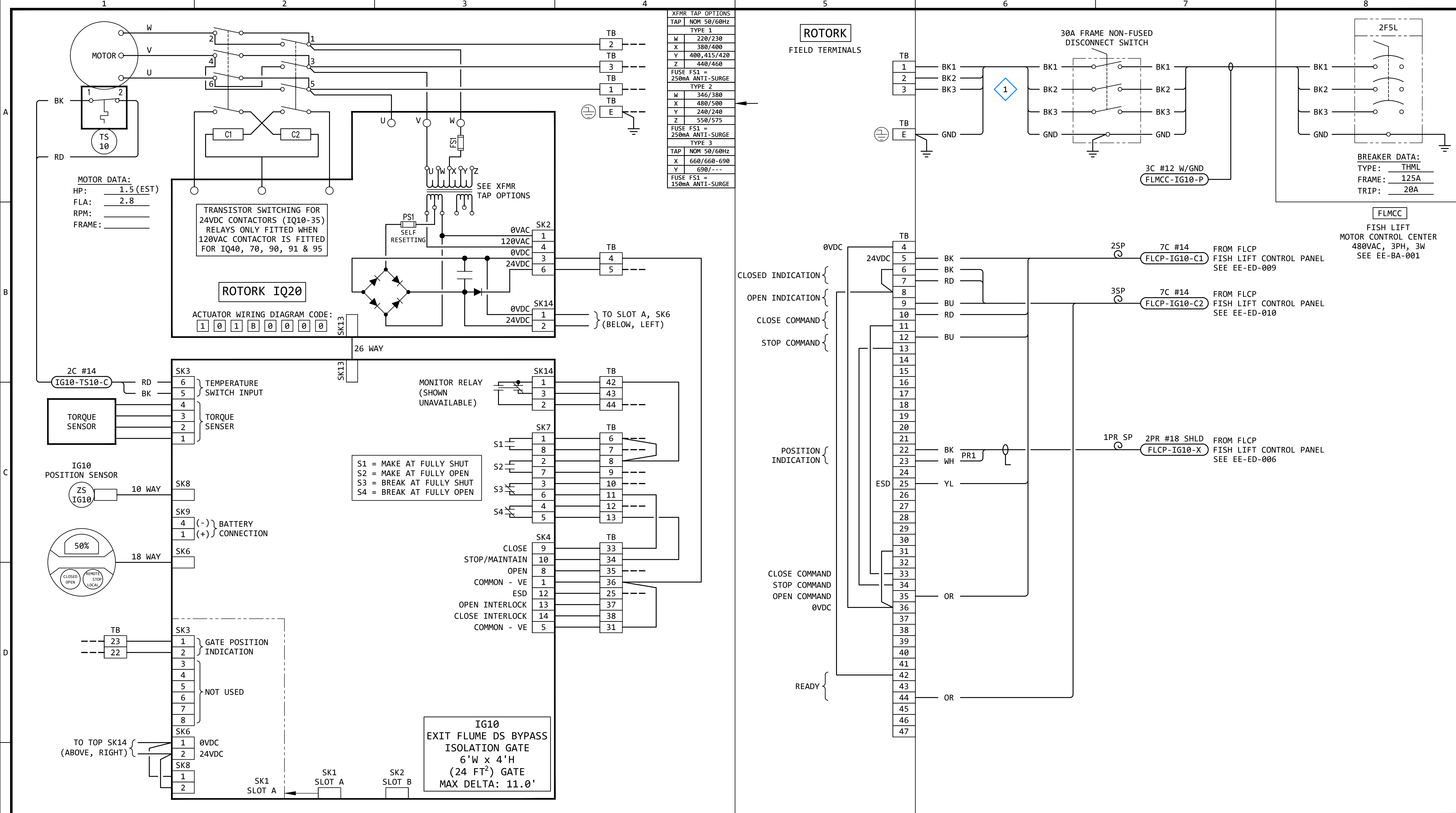
- 1 THE CABLES ON THE LOAD SIDE OF THE DISCONNECT SWITCH SHALL MATCH THE LINE SIDE CABLES.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC	
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE	
CHECKED BY	DATE	INTERCONNECTION DIAGRAM	
CMM	08/22/2024	AWS DS ISOLATION VALVE (AWSS9)	
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY
CMH	08/22/2024	HYDRO	INTERCONNECTS
SCALE	PROJECT NO.	DWG	REV
NONE	ARL-007	EE-GK-009	0



GENERAL NOTES:

- THE DESIGN SHOWN IS BASED ON ROTORK CIRCUIT DIAGRAM No. 101B0000, ISSUE 6, DATED 160614. SEE EE-DK-001 FOR MORE DETAILS.
- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

- 1 THE CABLES ON THE LOAD SIDE OF THE DISCONNECT SWITCH SHALL MATCH THE LINE SIDE CABLES.

XFMR TAP OPTIONS	
TAP	NOM 50/60Hz
TYPE 1	
W	220/230
X	380/400
Y	400, 415/420
Z	440/460
FUSE FS1 = 250mA ANTI-SURGE	
TYPE 2	
W	346/380
X	480/500
Y	240/240
Z	550/575
FUSE FS1 = 250mA ANTI-SURGE	
TYPE 3	
TAP	NOM 50/60Hz
X	660/660-690
Y	690/---
FUSE FS1 = 150mA ANTI-SURGE	

ROTORK

FIELD TERMINALS

30A FRAME NON-FUSED DISCONNECT SWITCH

BREAKER DATA:
TYPE: THML
FRAME: 125A
TRIP: 20A

FLMCC

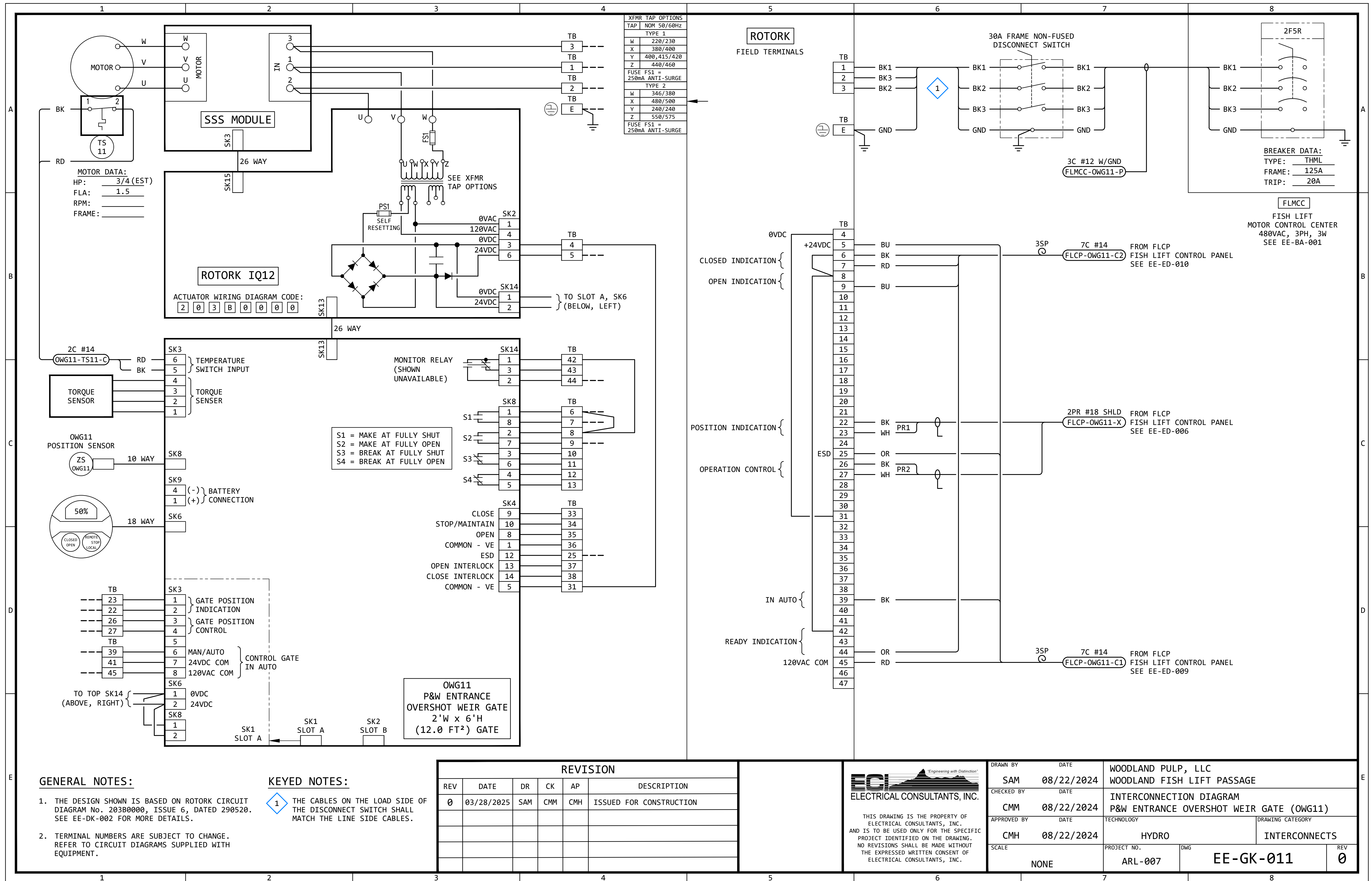
FISH LIFT MOTOR CONTROL CENTER
480VAC, 3PH, 3W
SEE EE-BA-001

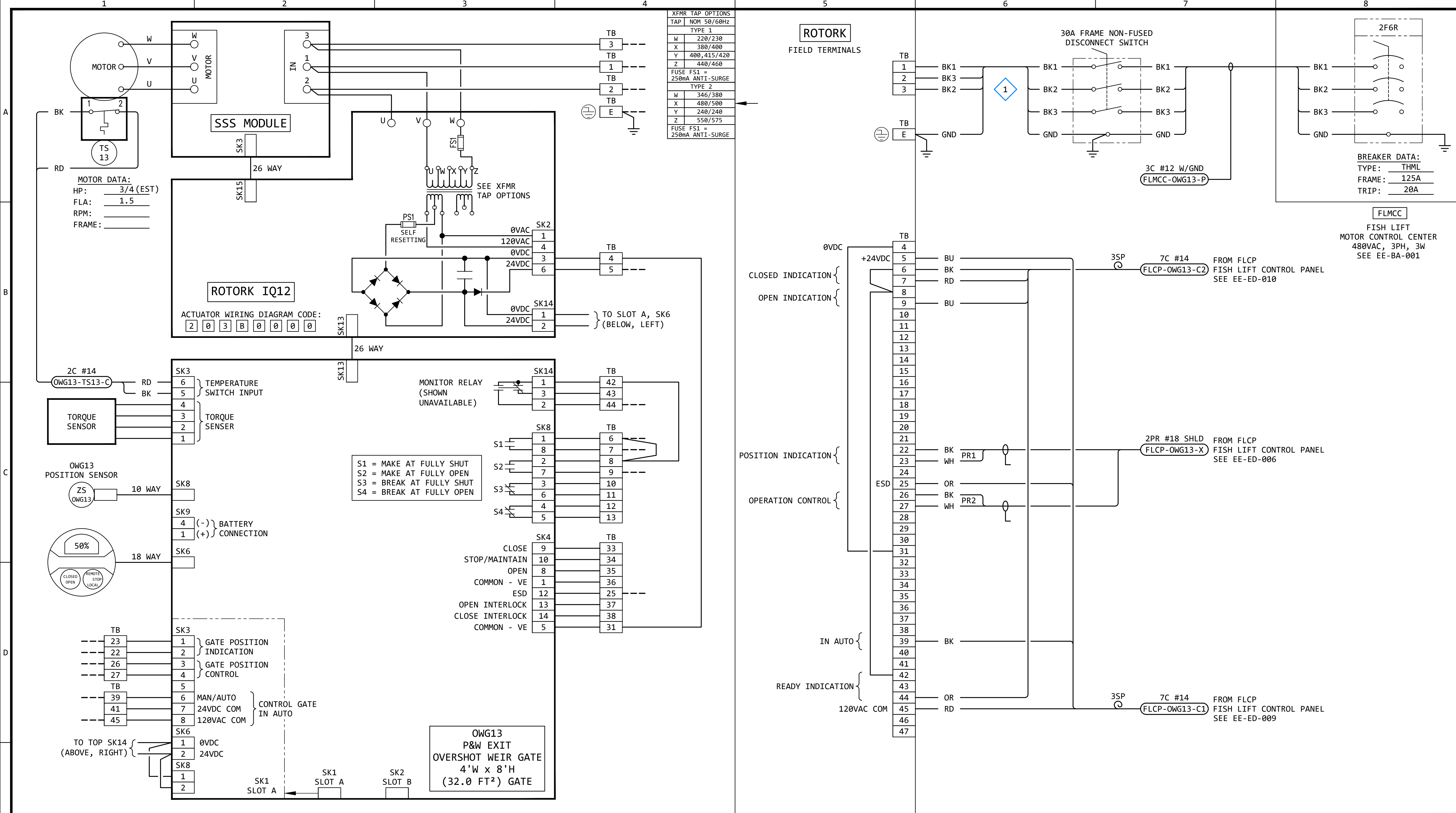
FROM FLCP FISH LIFT CONTROL PANEL SEE EE-ED-009

FROM FLCP FISH LIFT CONTROL PANEL SEE EE-ED-010

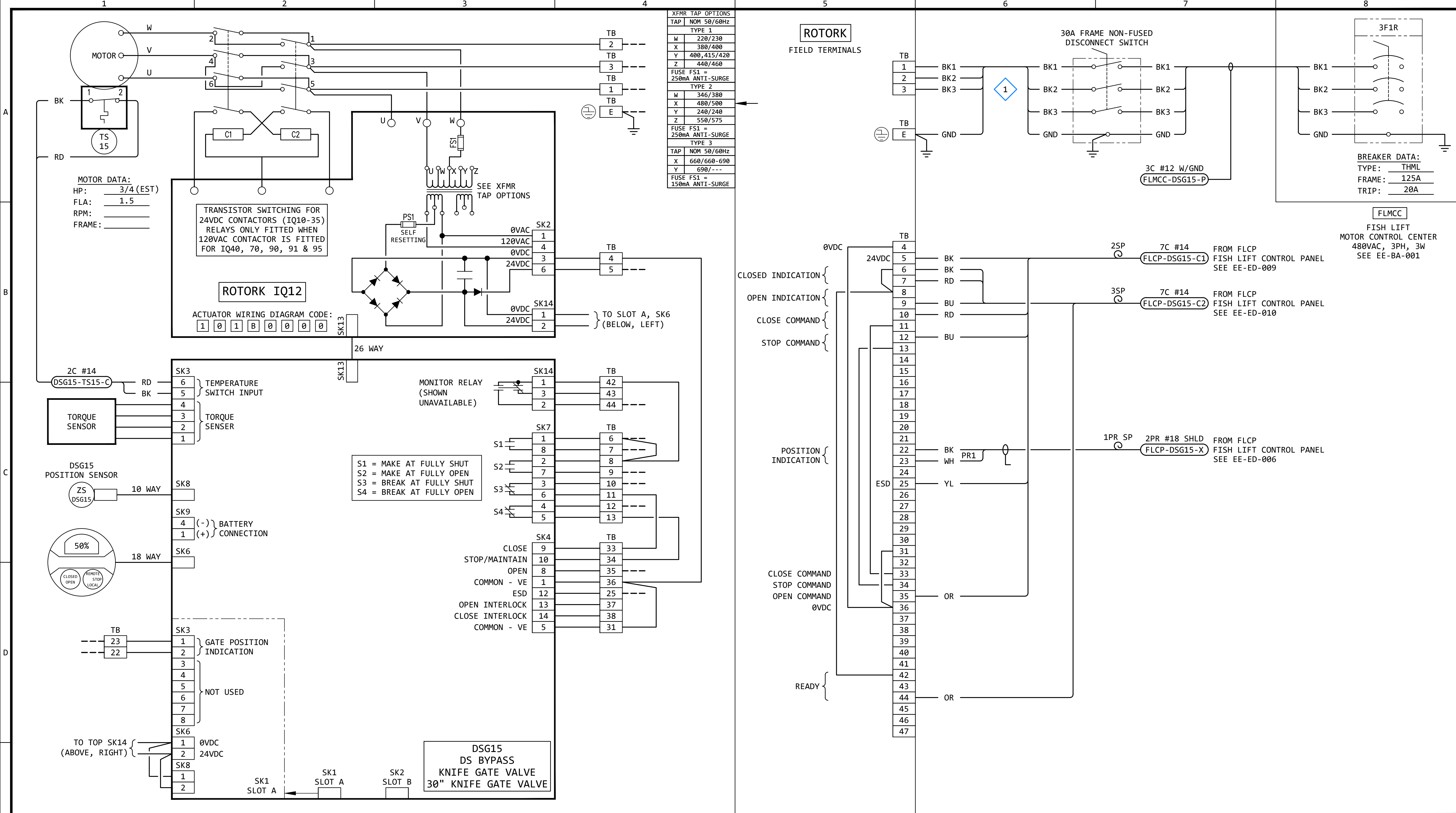
FROM FLCP FISH LIFT CONTROL PANEL SEE EE-ED-006

DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE	
CHECKED BY	DATE	INTERCONNECTION DIAGRAM EXIT FLUME DS BYPASS ISOLATION GATE (IG10)	
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY
CMH	08/22/2024	HYDRO	INTERCONNECTS
SCALE	PROJECT NO.	DWG	REV
NONE	ARL-007	EE-GK-010	0





GENERAL NOTES:		KEYED NOTES:		REVISION		ECI ELECTRICAL CONSULTANTS, INC.		DRAWN BY: SAM DATE: 08/22/2024		WOODLAND PULP, LLC	
1. THE DESIGN SHOWN IS BASED ON ROTORK CIRCUIT DIAGRAM No. 203B0000, ISSUE 6, DATED 290520. SEE EE-DK-002 FOR MORE DETAILS.		1. THE CABLES ON THE LOAD SIDE OF THE DISCONNECT SWITCH SHALL MATCH THE LINE SIDE CABLES.		REV: 0 DATE: 03/28/2025 DR: SAM CK: CMM AP: CMH DESCRIPTION: ISSUED FOR CONSTRUCTION		THIS DRAWING IS THE PROPERTY OF ELECTRICAL CONSULTANTS, INC. AND IS TO BE USED ONLY FOR THE SPECIFIC PROJECT IDENTIFIED ON THE DRAWING. NO REVISIONS SHALL BE MADE WITHOUT THE EXPRESSED WRITTEN CONSENT OF ELECTRICAL CONSULTANTS, INC.		CHECKED BY: CMM DATE: 08/22/2024		WOODLAND FISH LIFT PASSAGE	
2. TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.								APPROVED BY: CMH DATE: 08/22/2024		INTERCONNECTION DIAGRAM	
								SCALE: NONE		P&W EXIT OVERSHOT WEIR GATE (OWG13)	
								PROJECT NO. ARL-007		TECHNOLOGY: HYDRO	
								DWG: EE-GK-013		DRAWING CATEGORY: INTERCONNECTS	
								REV: 0			



GENERAL NOTES:

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- TERMINAL NUMBERS ARE SUBJECT TO CHANGE. REFER TO CIRCUIT DIAGRAMS SUPPLIED WITH EQUIPMENT.

KEYED NOTES:

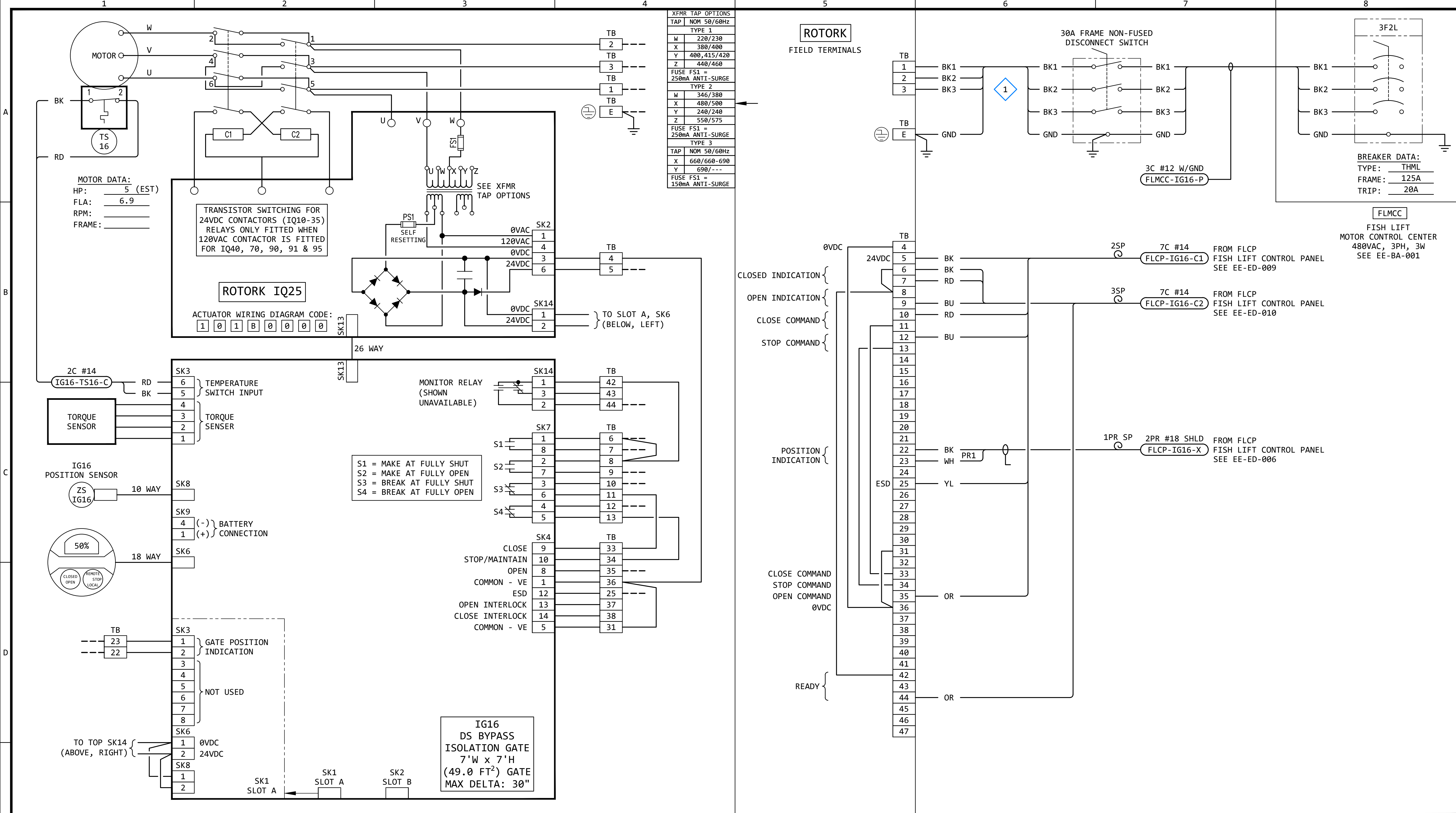
- 1 THE CABLES ON THE LOAD SIDE OF THE DISCONNECT SWITCH SHALL MATCH THE LINE SIDE CABLES.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	INTERCONNECTION DIAGRAM DS BYPASS KNIFE GATE VALVE (DSG15)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	INTERCONNECTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-GK-015	0	



GENERAL NOTES:

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KEYED NOTES:

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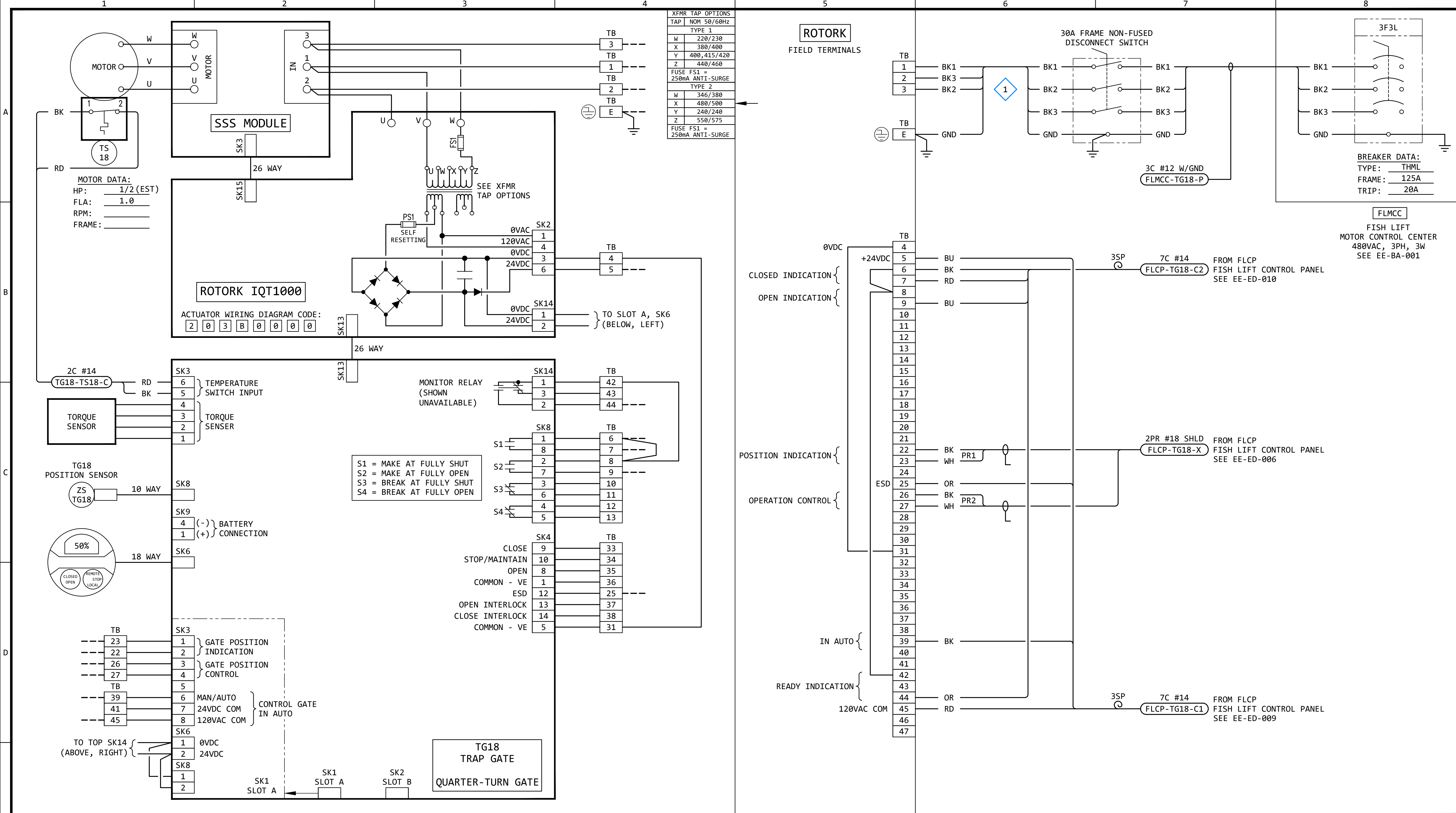
REVISION

REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	INTERCONNECTION DIAGRAM DS BYPASS ISOLATION GATE (IG16)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	INTERCONNECTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-GK-016	0	



GENERAL NOTES:

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KEYED NOTES:

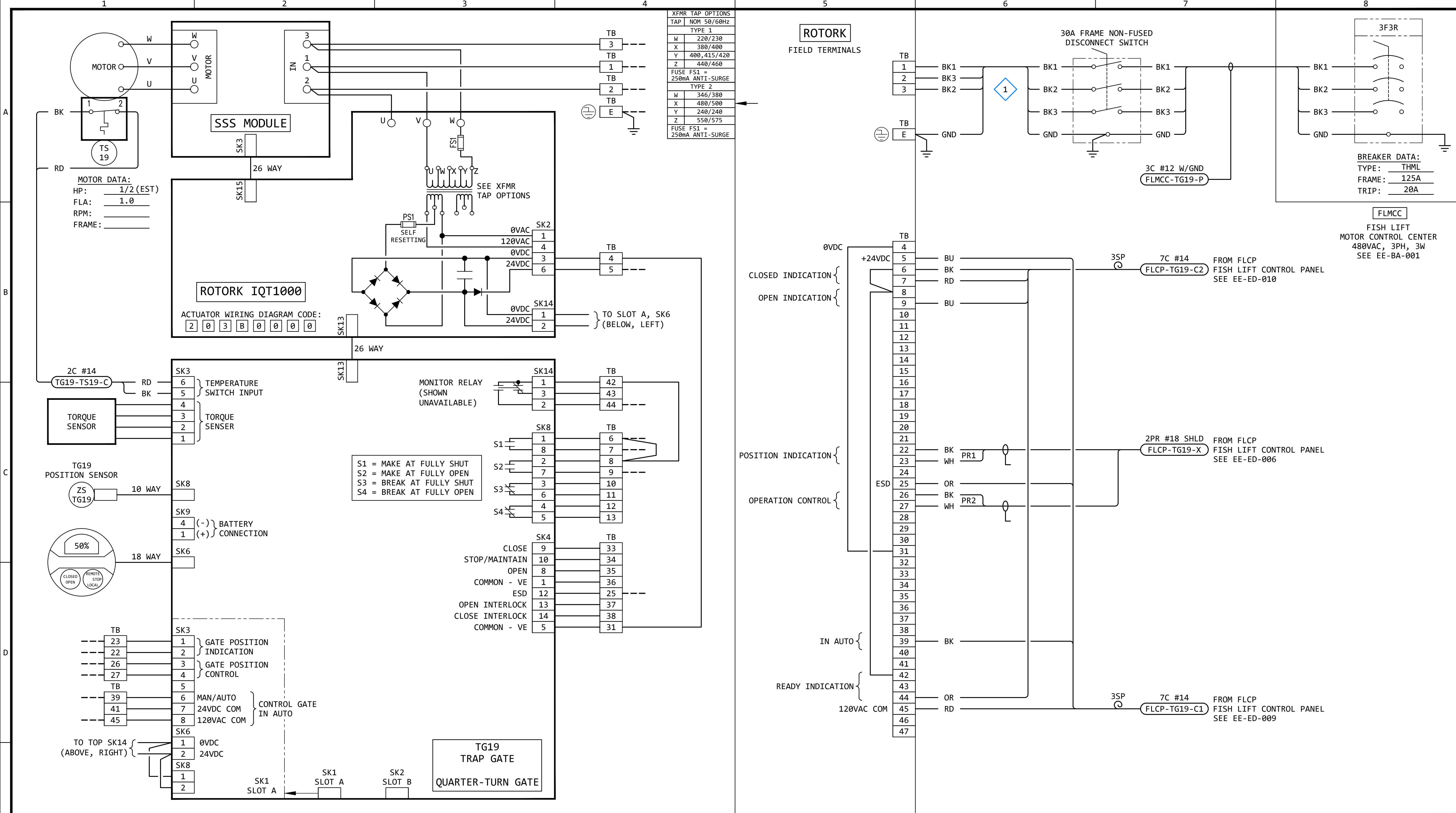
- 1 THE CABLES ON THE LOAD SIDE OF THE DISCONNECT SWITCH SHALL MATCH THE LINE SIDE CABLES.

REVISION					
REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION



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DRAWN BY	DATE	WOODLAND PULP, LLC		
SAM	08/22/2024	WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	INTERCONNECTION DIAGRAM		
CMM	08/22/2024	TRAP GATE (TG18)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	INTERCONNECTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-GK-018	0	



GENERAL NOTES:

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REV	DATE	DR	CK	AP	DESCRIPTION
0	03/28/2025	SAM	CMM	CMH	ISSUED FOR CONSTRUCTION

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DRAWN BY	DATE	WOODLAND PULP, LLC WOODLAND FISH LIFT PASSAGE		
CHECKED BY	DATE	INTERCONNECTION DIAGRAM TRAP GATE (TG19)		
APPROVED BY	DATE	TECHNOLOGY	DRAWING CATEGORY	
CMH	08/22/2024	HYDRO	INTERCONNECTS	
SCALE	PROJECT NO.	DWG	REV	
NONE	ARL-007	EE-GK-019	0	