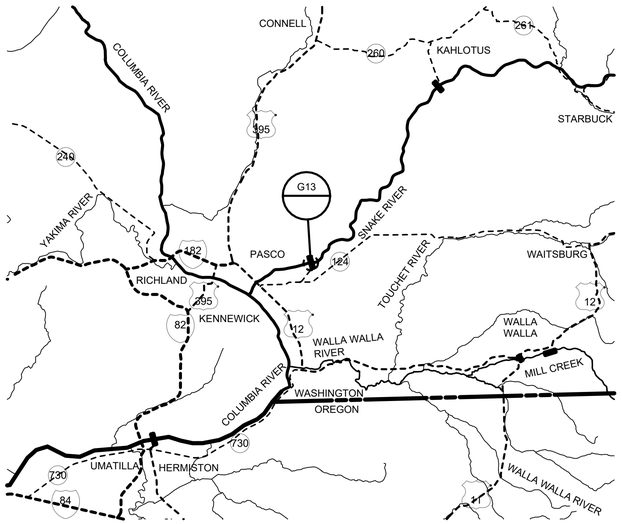
US Army Corps
of Engineers ®
WALLA WALLA DISTRICT

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT



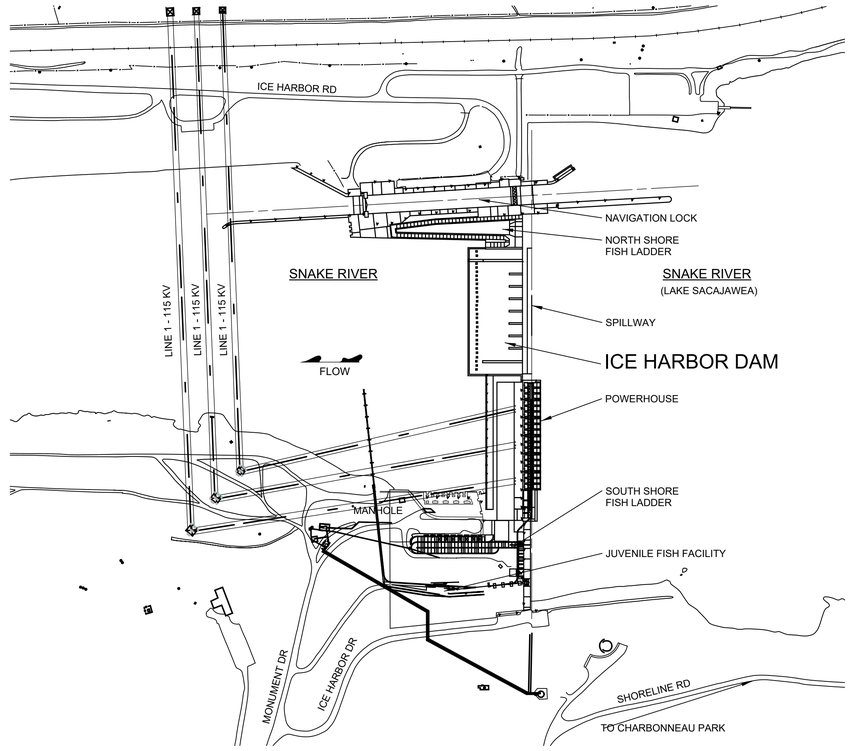
D1 VICINITY MAP
SCALE: NTS

NORTH



D7 LOCATION MAP
SCALE: NTS

NORTH



NOTE: CONSTRUCTION BASE LINE TO GRID NORTH ROTATION IS 11°24'10.73"

NORTH

G13 SITE MAP
SCALE: NTS

This project was designed by the Walla Walla District of the U.S. Army Corps of Engineers. The initials or signatures and registration designations of individuals appear on these project documents within the scope of their employment as required by ER 1110-1-8152.

APPROVED BY: DWAYNE WESTON, P.E. CHIEF OF ENGINEERING & CONSTRUCTION DIVISION WALLA WALLA DISTRICT
SUBMITTED BY: MARCUS PALMER, P.E. CHIEF OF DESIGN BRANCH WALLA WALLA DISTRICT
SUBMITTED BY: JULIO MORELOS, P.E. CHIEF OF STRUCTURAL DESIGN SECTION WALLA WALLA DISTRICT
SUBMITTED BY: KEVIN RENSHAW, P.E. CHIEF OF MECHANICAL DESIGN SECTION WALLA WALLA DISTRICT
SUBMITTED BY: LEVI VAN STEDUM, P.E. CHIEF OF ELECTRICAL DESIGN SECTION WALLA WALLA DISTRICT

SOLICITATION NO.: W912EF##X####
CONTRACT NO.:
ISSUE DATE:

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DESIGNED BY: S. FELTON
DRAWN BY: S. FELTON
CHECKED BY: M. MCLEAN
SUBMITTED BY: KEVIN RENSHAW, P.E.
SIZE: ANSI D
ISSUE DATE:
SOLICITATION NO.: W912EF##X####
CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

COVER SHEET AND LOCATION MAPS

SHEET ID
G-001

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INTERIM

SHEET INDEX

SHEET ID	DESCRIPTION	FILE NO.	SOURCE
GENERAL			
G-001	COVER SHEET AND LOCATION MAPS N/A		HL501812_S_Master-Model.rvt
G-002	SHEET INDEX		HL501812_S_Master-Model.rvt
MECHANICAL			
M-001	SITE OVERVIEW		HL501812_M_Master-Model.rvt
MD001	DEMO OVERVIEW		HL501812_M_Master-Model.rvt
MD002	DEMO SOUTH ENTRANCE		HL501812_M_Master-Model.rvt
MD003	DEMO MIDDLE ENTRANCE		HL501812_M_Master-Model.rvt
MD004	DEMO NORTH ENTRANCE		HL501812_M_Master-Model.rvt
ELECTRICAL			
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ED101	ICE HARBOR ELECTRICAL SITE PLAN - DEMOLITION		HL501812_E_Master-Model.rvt
ED102	ICE HARBOR ELECTRICAL SITE PLAN - DEMO		HL501812_E_Master-Model.rvt
ED103	CENTRAL FISHWAY GALLERY DEMOLITION		HL501812_E_Master-Model.rvt
ED104	CENTRAL FISHWAY GALLERY DEMOLITION		HL501812_E_Master-Model.rvt
ED105	CENTRAL FISHWAY GALLERY DEMOLITION		HL501812_E_Master-Model.rvt
ED106	FISHWAY GALLERY DEMOLITION		HL501812_E_Master-Model.rvt
ED107	SOUTH FISHWAY GALLERY DEMOLITION		HL501812_E_Master-Model.rvt
ED108	SOUTH FISHWAY GALLERY DEMOLITION		HL501812_E_Master-Model.rvt
ED109	SOUTH FISHWAY GALLERY DEMOLITION		HL501812_E_Master-Model.rvt
ED110	SOUTH FISHWAY GALLERY DEMOLITION		HL501812_E_Master-Model.rvt
ED111	SOUTH FISHWAY GALLERY DEMOLITION		HL501812_E_Master-Model.rvt
ED112	ERECTION BAY FIBER ROUTING DEMOLITION		HL501812_E_Master-Model.rvt
ED113	CONTROL ROOM FIBER ROUTING DEMOLITION		HL501812_E_Master-Model.rvt
ED114	CENTRAL FISHWAY ENTRANCE DEMOLITION		HL501812_E_Master-Model.rvt
ED115	TAILRACE DECK BAYS 5 & 6 DEMOLITION		HL501812_E_Master-Model.rvt
ED116	TAILRACE DECK BAYS 3 & 4 DEMOLITION		HL501812_E_Master-Model.rvt
ED117	TAILRACE DECK BAYS 1 & 2 DEMOLITION		HL501812_E_Master-Model.rvt
ED118	TAILRACE DECK BAY 1 DEMOLITION		HL501812_E_Master-Model.rvt
ED119	SOUTH FISHWAY ENTRANCE DEMOLITION		HL501812_E_Master-Model.rvt
ED120	FISH PUMP HOUSE FIBER ROUTING DEMOLITION		HL501812_E_Master-Model.rvt
ED121	SOUTH TAILRACE DECK DEMOLITION		HL501812_E_Master-Model.rvt
ED122	SOUTH FISH LADDER DEMOLITION		HL501812_E_Master-Model.rvt
ED123	NORTH FISHWAY ENTRANCE DEMOLITION		HL501812_E_Master-Model.rvt
ED124	NORTH FISHWAY ENTRANCE DEMOLITION		HL501812_E_Master-Model.rvt
ED125	NORTH FISHWAY ENTRANCE WALL ROUTING DEMOLITION		HL501812_E_Master-Model.rvt
ED126	NORTH FISHWAY ENTRANCE FIBER ROUTING DEMOLITION		HL501812_E_Master-Model.rvt
ED301	FISHWAY GALLERY FCQ2		HL501812_E_Master-Model.rvt
ED302	FISHWAY GALLERY FCQ1		HL501812_E_Master-Model.rvt

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ED614	CABLE AND CONDUIT SCHEDULE DEMOLITION		HL501812_E_Master-Model.rvt
ED615	CABLE AND CONDUIT SCHEDULE DEMOLITION		HL501812_E_Master-Model.rvt
ED616	CABLE AND CONDUIT SCHEDULE DEMOLITION		HL501812_E_Master-Model.rvt
ED901	DEMOLITION PICTURES PART 1		HL501812_E_Master-Model.rvt
ED902	DEMOLITION PICTURES PART 2		HL501812_E_Master-Model.rvt
ED903	DEMOLITION PICTURES PART 3		HL501812_E_Master-Model.rvt
E-101	ICE HARBOR ELECTRICAL SITE PLAN - INSTALL		HL501812_E_Master-Model.rvt
E-102	ICE HARBOR ELECTRICAL SITE PLAN - INSTALL		HL501812_E_Master-Model.rvt
E-103	CENTRAL FISHWAY GALLERY - INSTALL		HL501812_E_Master-Model.rvt
E-104	CENTRAL FISHWAY GALLERY - INSTALL		HL501812_E_Master-Model.rvt
E-105	CENTRAL FISHWAY GALLERY INSTALLATION		HL501812_E_Master-Model.rvt
E-106	FISHWAY GALLERY - INSTALL		HL501812_E_Master-Model.rvt
E-107	SOUTH FISHWAY GALLERY - INSTALL		HL501812_E_Master-Model.rvt
E-108	SOUTH FISHWAY GALLERY - INSTALL		HL501812_E_Master-Model.rvt
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E-110	SOUTH FISHWAY GALLERY- INSTALL		HL501812_E_Master-Model.rvt
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E-113	ERECTION BAY FIBER ROUTING - INSTALL		HL501812_E_Master-Model.rvt
E-114	CONTROL ROOM FIBER ROUTING - INSTALL		HL501812_E_Master-Model.rvt
E-115	FISH PUMP HOUSE FIBER ROUTING - INSTALL		HL501812_E_Master-Model.rvt
E-116	CENTRAL FISHWAY ENTRANCE ISOMETRIC VIEW - INSTALL		HL501812_E_Master-Model.rvt
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E-119	SOUTH TAILRACE DECK - INSTALL		HL501812_E_Master-Model.rvt
E-120	SOUTH FISHWAY ENTRANCE - INSTALL		HL501812_E_Master-Model.rvt
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E-122	SOUTH FISH LADDER - INSTALL		HL501812_E_Master-Model.rvt
E-123	NORTH FISHWAY ENTRANCE INSTALLATION ISOMETRIC VIEW		HL501812_E_Master-Model.rvt
E-124	NORTH FISHWAY ENTRANCE - INSTALL		HL501812_E_Master-Model.rvt
E-125	NORTH FISHWAY ENTRANCE - INSTALL		HL501812_E_Master-Model.rvt
E-126	NORTH FISHWAY ENTRANCE WALL ROUTING - INSTALL		HL501812_E_Master-Model.rvt
E-127	NORTH FISHWAY ENTRANCE FIBER ROUTING - INSTALL		HL501812_E_Master-Model.rvt
E-613	CABLE AND CONDUIT SCHEDULE - INSTALL		HL501812_E_Master-Model.rvt
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E-615	CABLE AND CONDUIT SCHEDULE - INSTALL		HL501812_E_Master-Model.rvt

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CHECKED BY: M. MCLEAN
SUBMITTED BY: KEVIN RENSHAW, P.E.
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ISSUE DATE:
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FILE NUMBER:

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201 N 3RD AVE
WALLA WALLA, WA 99362

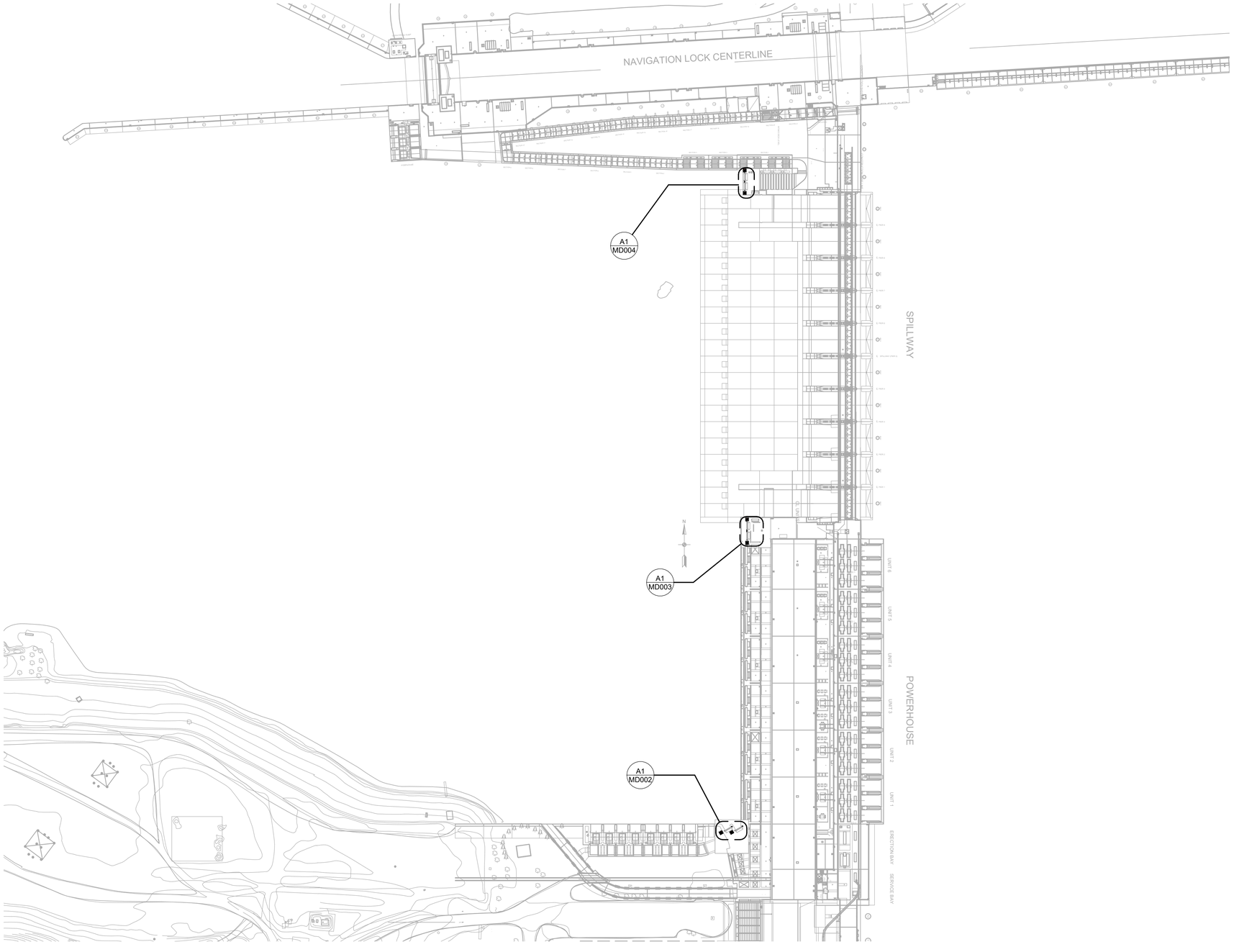
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SHEET INDEX

SHEET ID

G-002

INTERIM



A1 PLAN DEMO OVERVIEW
SCALE: 1" = 100'-0"

GENERAL NOTES

1. SHEAVE BASES AND POSTS ARE TO REMAIN. PIN HOLES AND THREADED HOLES SHOULD BE CLEANED UP AND LUBRICATED BEFORE ASSEMBLY OF NEW COMPONENTS.

2. ALL EXISTING CONCRETE ANCHORS REMOVED FROM HOIST BASES AND ANCHOR POINTS ARE GROUND FLUSH WITH THE EXISTING CONCRETE.

3. EXISTING WIRE ROPES AND ATTACHMENTS ARE TO BE DEMOED IN THE SCOPE OF THIS PROJECT. THE UPPER GATE LEAF CHAINS WILL REMAIN AS THE CONNECTION POINT FOR THE NEW WIRE ROPE ASSEMBLIES.

SFEW - SOUTH FISH ENTRANCE WEIRS

CFEW - CENTRAL FISH ENTRANCE WEIRS

NFEW - NORTH FISH ENTRANCE WEIRS

LEGEND

EXISTING, TO BE REMOVED

EXISTING, TO REMAIN

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INTERIM REVIEW

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FILE NUMBER:

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WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

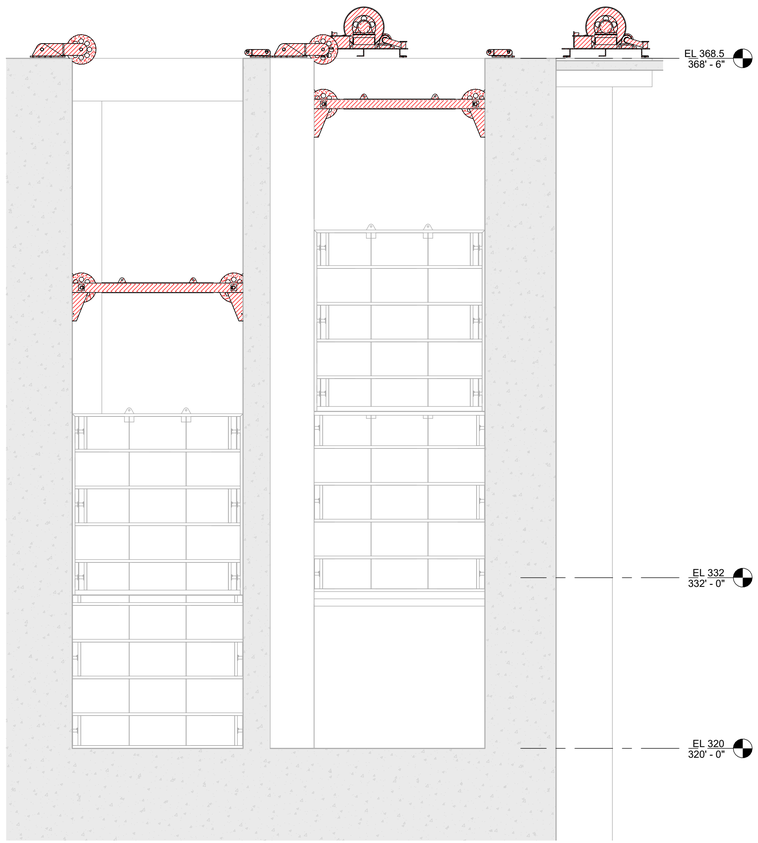
DEMO OVERVIEW

SHEET ID

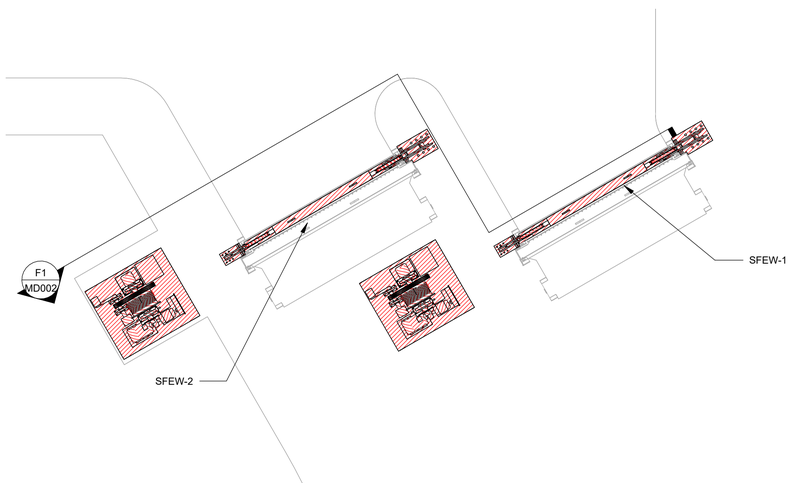
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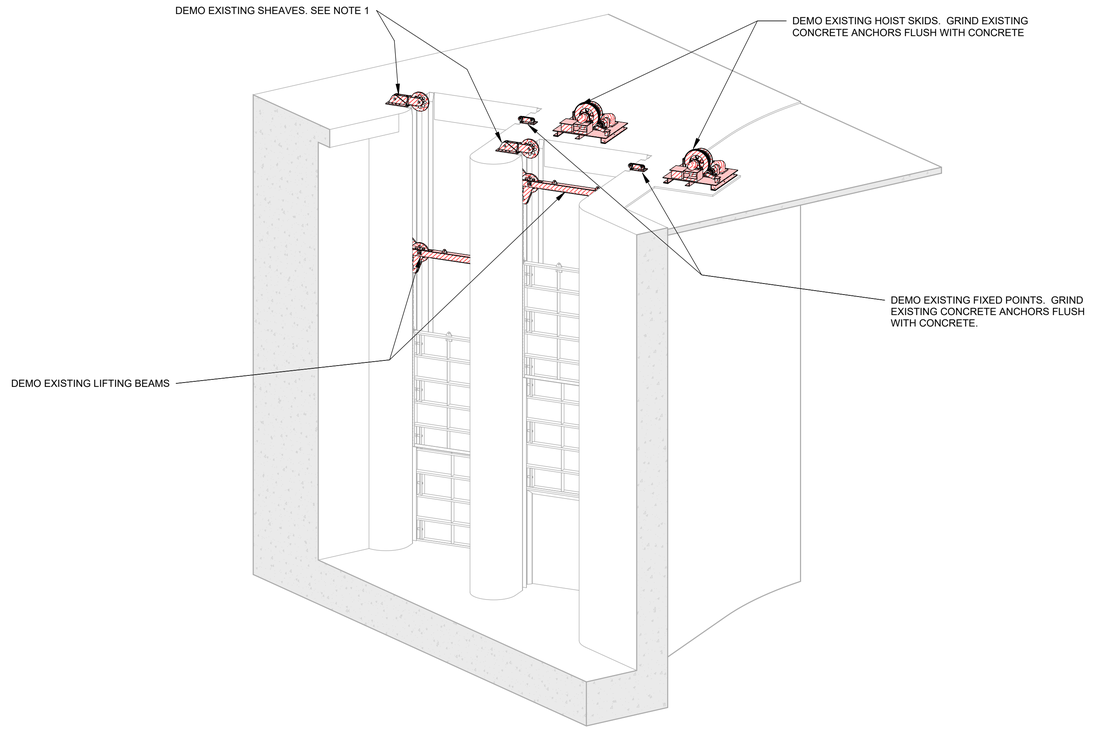
INTERIM



F1 SECTION DEMO SOUTH ENTRANCE
SCALE: 3/16" = 1'-0"



A1 MD001 A1 PLAN DEMO SOUTH ENTRANCE
SCALE: 3/16" = 1'-0"



A10 3D VIEW DEMO SOUTH ENTRANCE
SCALE:

GENERAL NOTES

LEGEND

EXISTING, TO BE REMOVED

EXISTING, TO REMAIN

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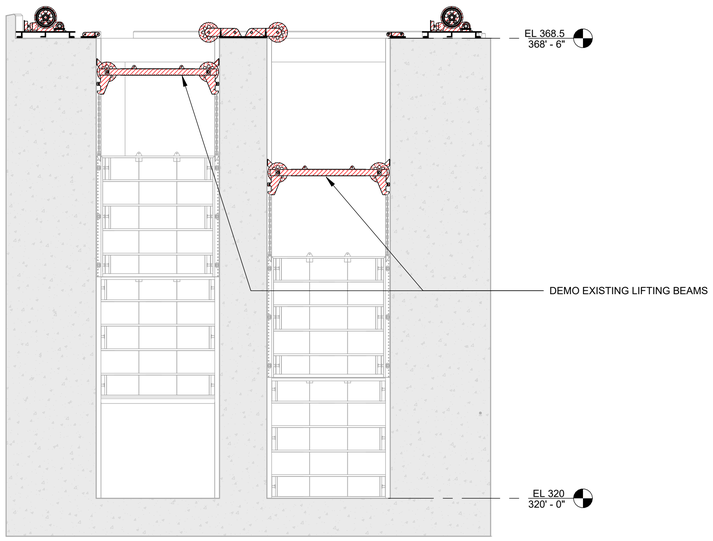
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WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

DEMO SOUTH ENTRANCE

SHEET ID
MD002

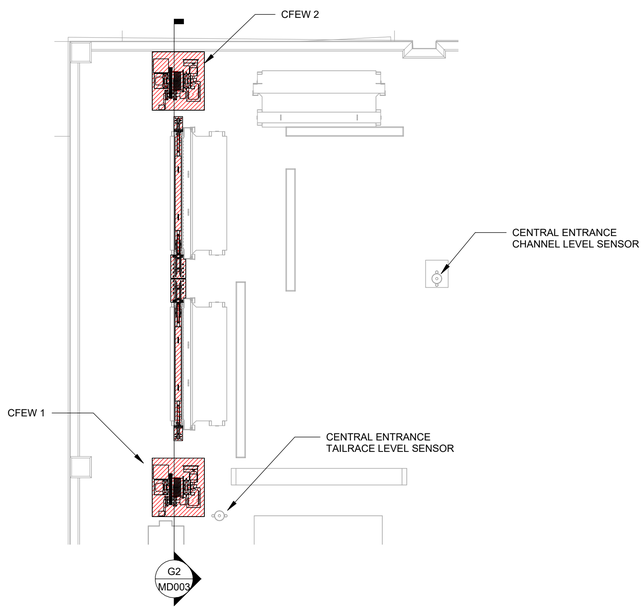
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SECTION DEMO MIDDLE ENTRANCE

A1 MD003 — G2

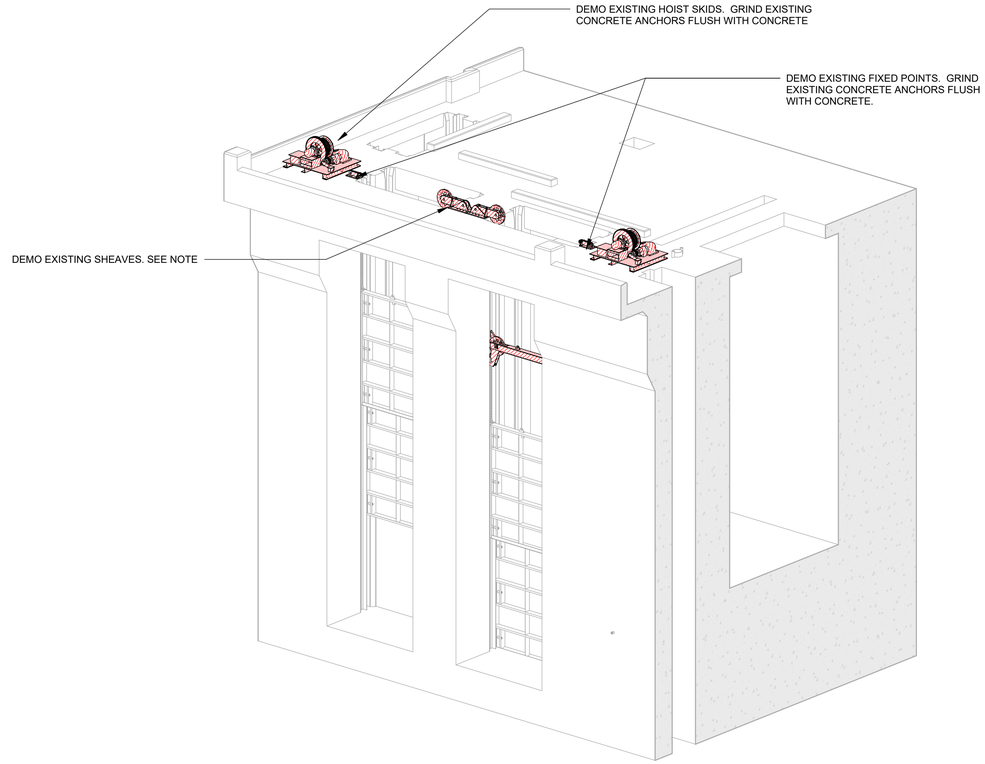
SCALE: 1/8" = 1'-0"



PLAN DEMO MIDDLE ENTRANCE

A1 MD001 — A1

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



3D VIEW DEMO MIDDLE ENTRANCE

A9

SCALE:

GENERAL NOTES

LEGEND

EXISTING, TO BE REMOVED

EXISTING, TO REMAIN

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WALLA WALLA, WA 99362

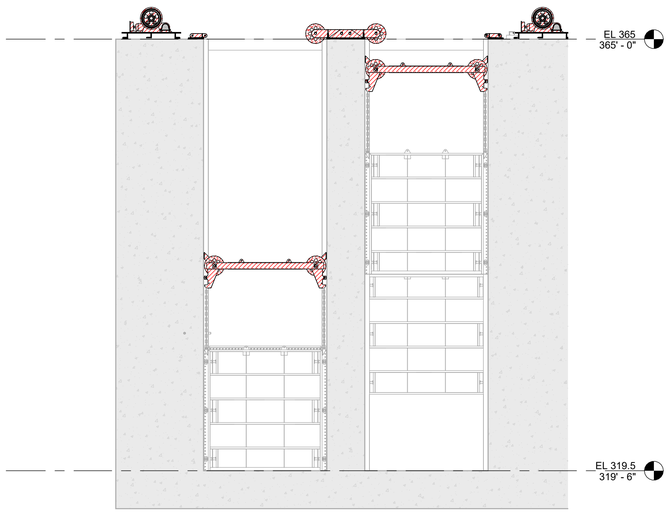
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

DEMO MIDDLE ENTRANCE

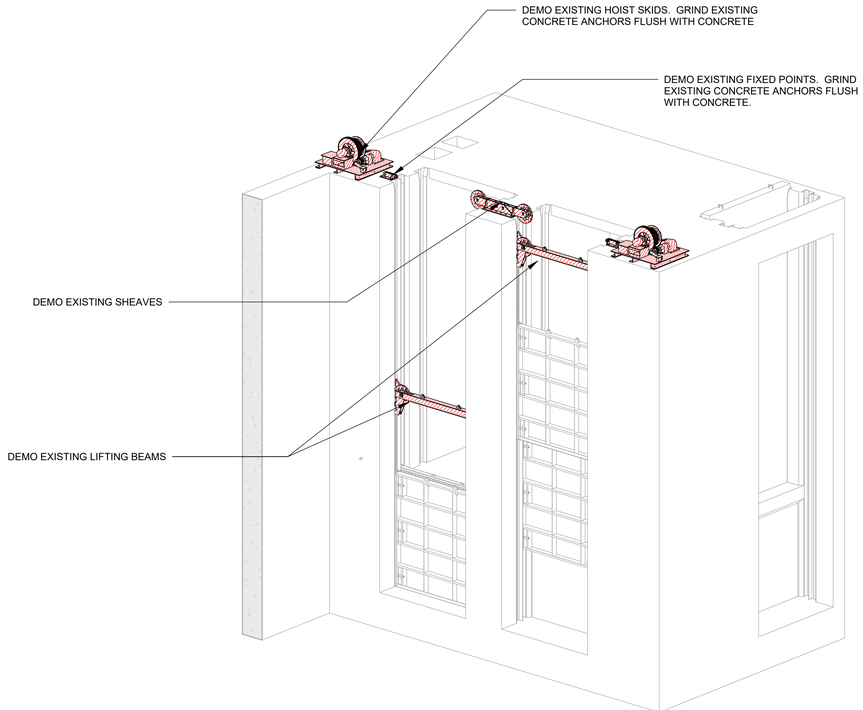
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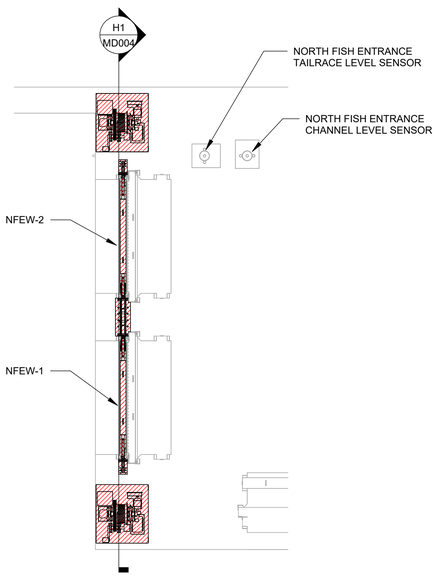
MD003

INTERIM



H1 SECTION DEMO NORTH ENTRANCE
SCALE: 1/8" = 1'-0"





A1 MD001 A1 PLAN DEMO NORTH ENTRANCE
SCALE: 1/8" = 1'-0"

A7 3D VIEW DEMO NORTH ENTRANCE
SCALE: NTS

GENERAL NOTES

LEGEND

EXISTING, TO BE REMOVED

EXISTING, TO REMAIN

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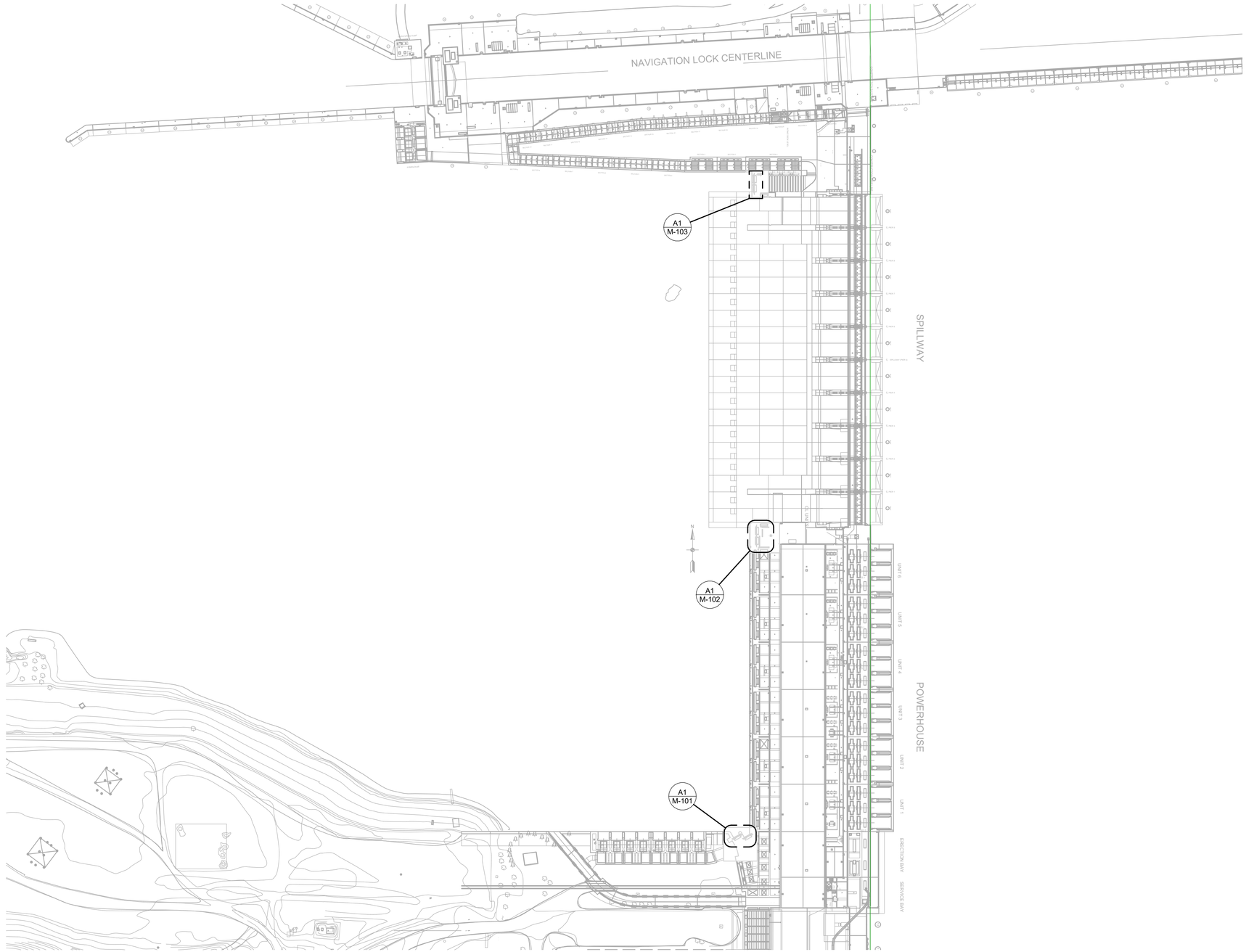
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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
ADULT FISH LADDER ENTRANCES
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DEMO NORTH ENTRANCE

SHEET ID
MD004

INTERIM



1 PLAN OVERVIEW
SCALE: 1" = 100'-0"

GENERAL NOTES

1.

SFEW - SOUTH FISH ENTRANCE WEIRS

CFEW - CENTRAL FISH ENTRANCE WEIRS

NFEW - NORTH FISH ENTRANCE WEIRS

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
ADULT FISH LADDER ENTRANCES
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SITE OVERVIEW

SHEET ID

M-001

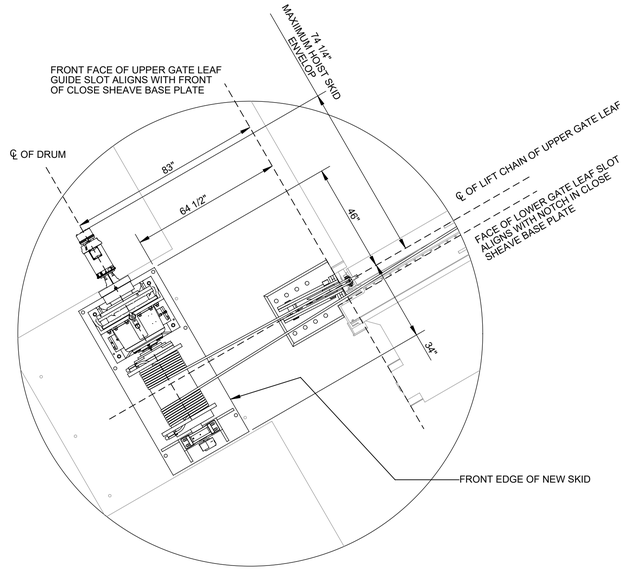
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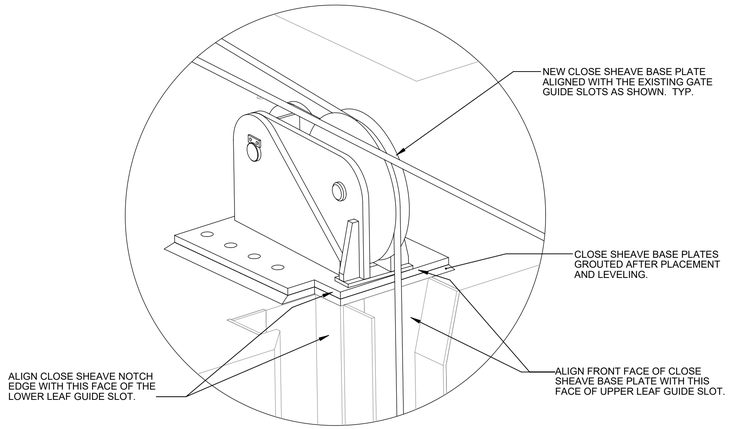
GENERAL NOTES

1. SEE TABLE ON M-501 FOR ASSEMBLY DESCRIPTIONS



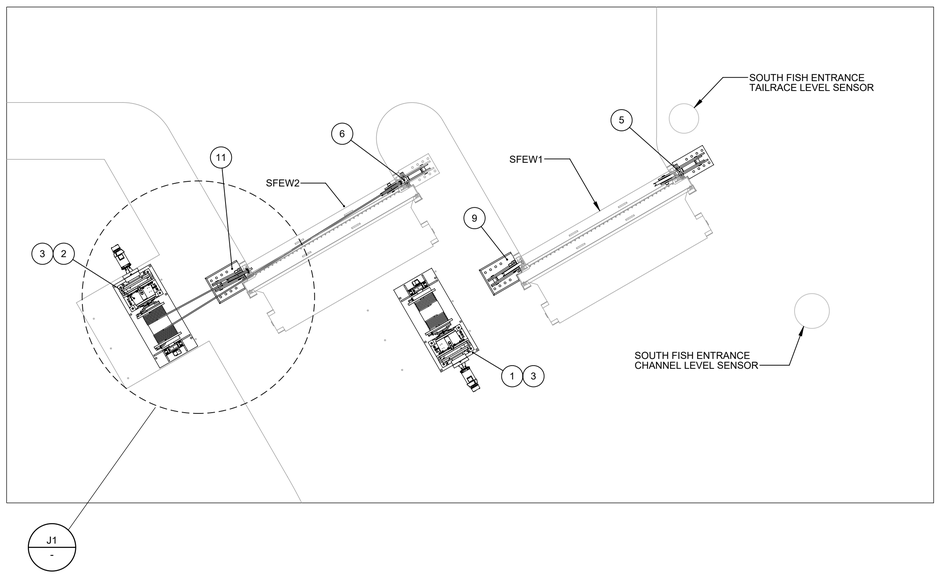
J1 DETAIL ALIGNMENT OF CLOSE SHEAVE AND DRUM

SCALE: 3/8" = 1' 0"



J8 3D VIEW CLOSE SHEAVE INSTALLATION ALIGNMENT WITH GUIDE SLOT

SCALE: 3/8" = 1' 0"



A1 PLAN SOUTH FISHWAY ENTRANCE WEIRS OVERVIEW

SCALE: 3/16" = 1' 0"

A11 3D VIEW SOUTH FISHWAY ENTRANCE WEIR OVERVIEW

SCALE: NTS

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SUBMITTED BY: K KRESHAK, PE	
SIZE: D	FILE NO:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
JUVENILE FISH PASSAGE IMPROVEMENTS
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISHWAY ENTRANCE WEIR (SFEW) OVERVIEW

SHEET ID

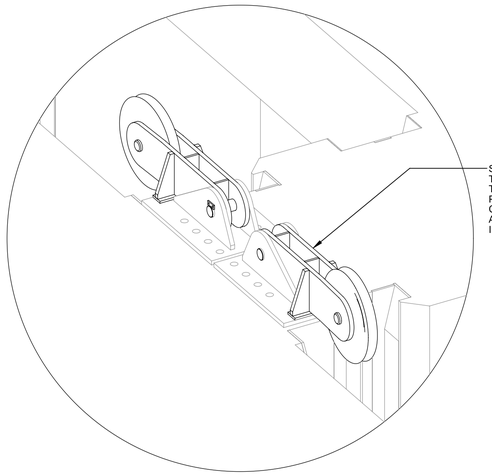
M-101

FILE PATH: M-101 - 103 - M-504 SLIDERW

FILE PATH: Monday, June 1, 2026

GENERAL NOTES

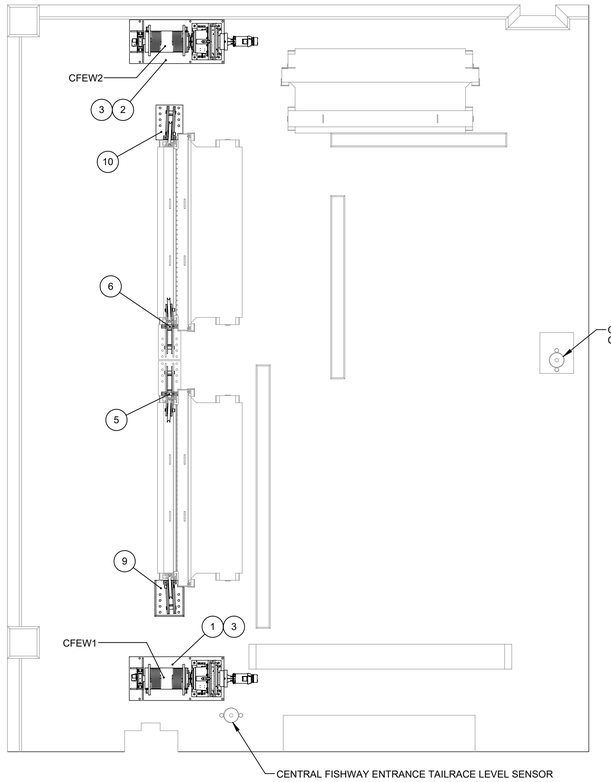
1. SEE TABLE ON M-501 FOR ASSEMBLY DESCRIPTIONS



SOUTH AND CENTRAL FAR SHEAVES ATTACH TO EXISTING SHEAVE BASE PLATES. NOTE THAT THE NORTH FISHWAY ENTRANCE BASE PLATES ARE A SLIGHTLY DIFFERENT DESIGN. CLEAN AND REPAIR PIN HOLES AS NEEDED AND RETAP ALL THREADED HOLES BEFORE INSTALLATION OF NEW BRACKETS.

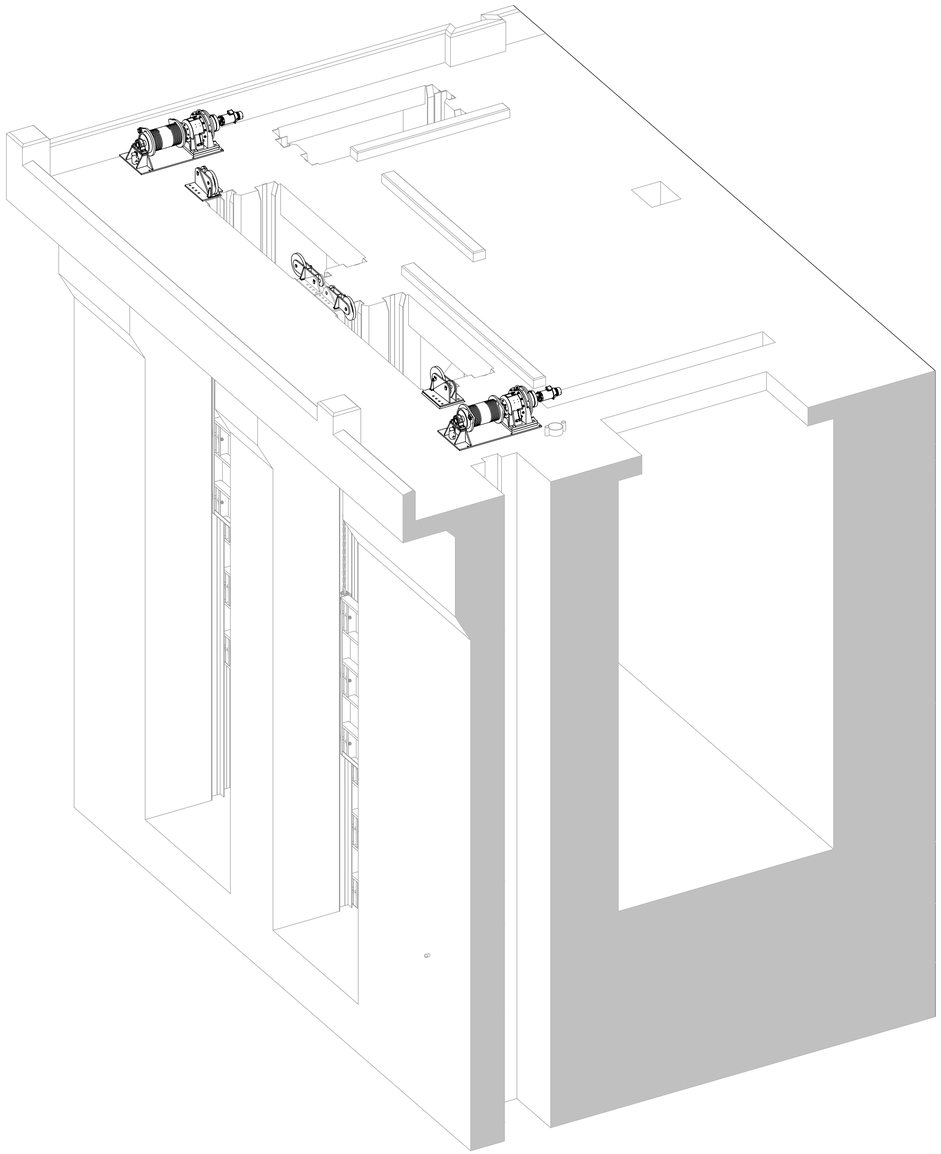
J1 3D VIEW OF NEW FAR SHEAVE BRACKETS ONTO EXISTING BASE PLATES

SCALE: NTS



A1 PLAN CENTRAL FISHWAY ENTRANCE WEIRS OVERVIEW

SCALE: 3/16" = 1' 0"



A11 3D VIEW CENTRAL FISHWAY ENTRANCE WEIR OVERVIEW

SCALE: NTS

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INTERIM REVIEW

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		06/03/2026

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DRAWN BY: M MCLEAN
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ISSUE DATE: 5-27-2026
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CONTRACT NO.:
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U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
ADULT FISH LADDER IMPROVEMENTS
WEIR GATE MACHINERY REPLACEMENT

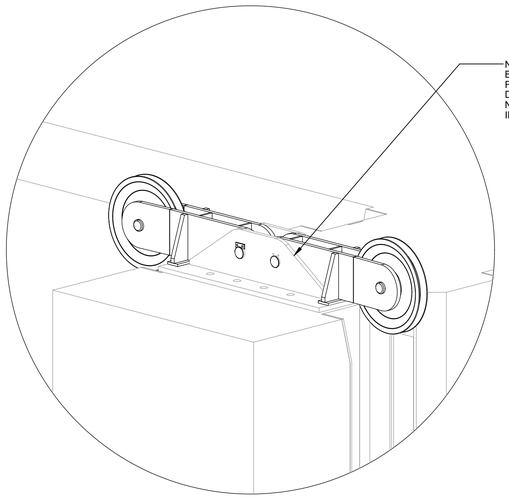
CENTRAL FISHWAY ENTRANCE WEIR (CFEW) OVERVIEW

SHEET ID

M-102

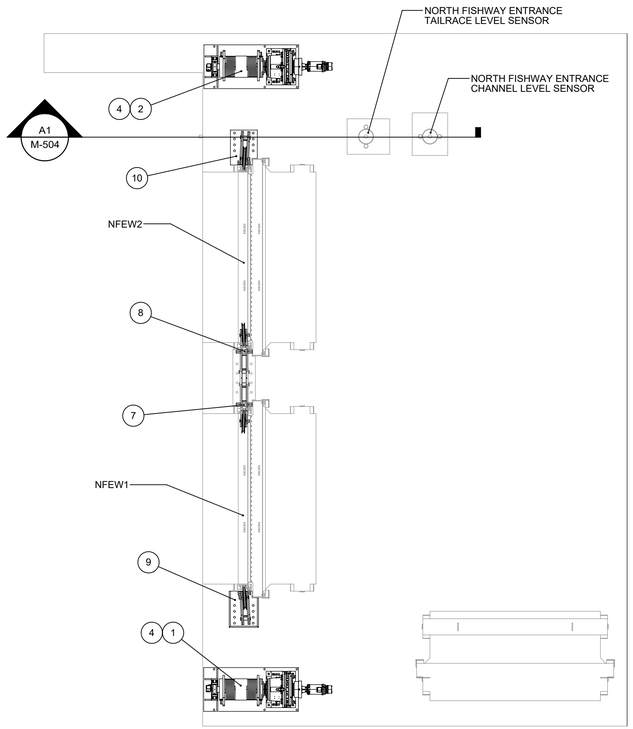
FILE PATH: M-101 - 103 - M-504 SLDDRW

FILE PATH: Monday, June 1, 2026



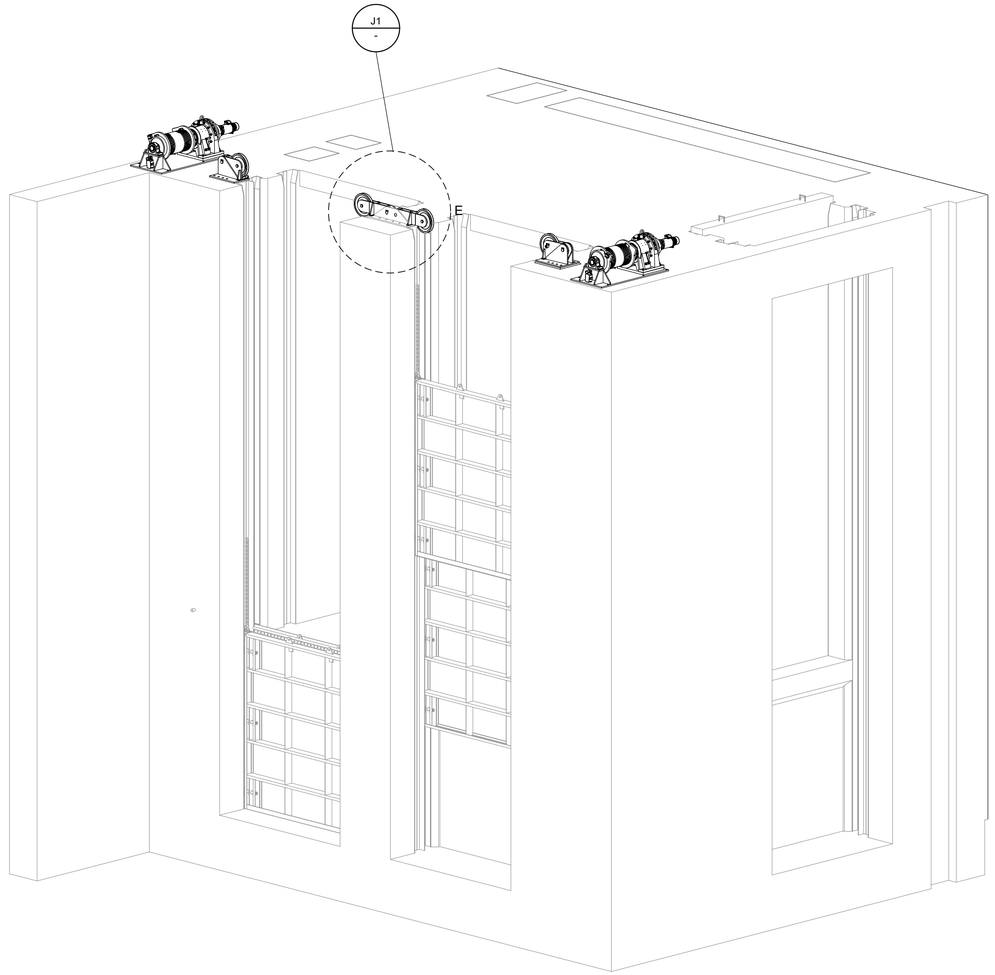
J1 3D VIEW OF NEW FAR SHEAVE BRACKETS ONTO EXISTING BASE PLATES

SCALE: NTS



A1 PLAN NORTH FISHWAY ENTRANCE WEIRS OVERVIEW

SCALE: 3/16" = 1' 0"



A11 3D VIEW NORTH FISHWAY ENTRANCE WEIR OVERVIEW

SCALE: NTS

GENERAL NOTES

1. SEE TABLE ON M-501 FOR ASSEMBLY DESCRIPTIONS

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INTERIM REVIEW

06/03/2026

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FILE NO.
ISSUE DATE:
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U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
FISH LADDER IMPROVEMENTS AND
WEIR GATE MACHINERY REPLACEMENT

NORTH FISHWAY ENTRANCE WEIR (NFEW) OVERVIEW

SHEET ID

M-103

FILE PATH: M-101 - 103 - M-504.SLDDRW

FILE PATH: Monday, June 1, 2026

HOIST, SHEAVE, WIRE ROPE ASSEMBLY QUANTITIES

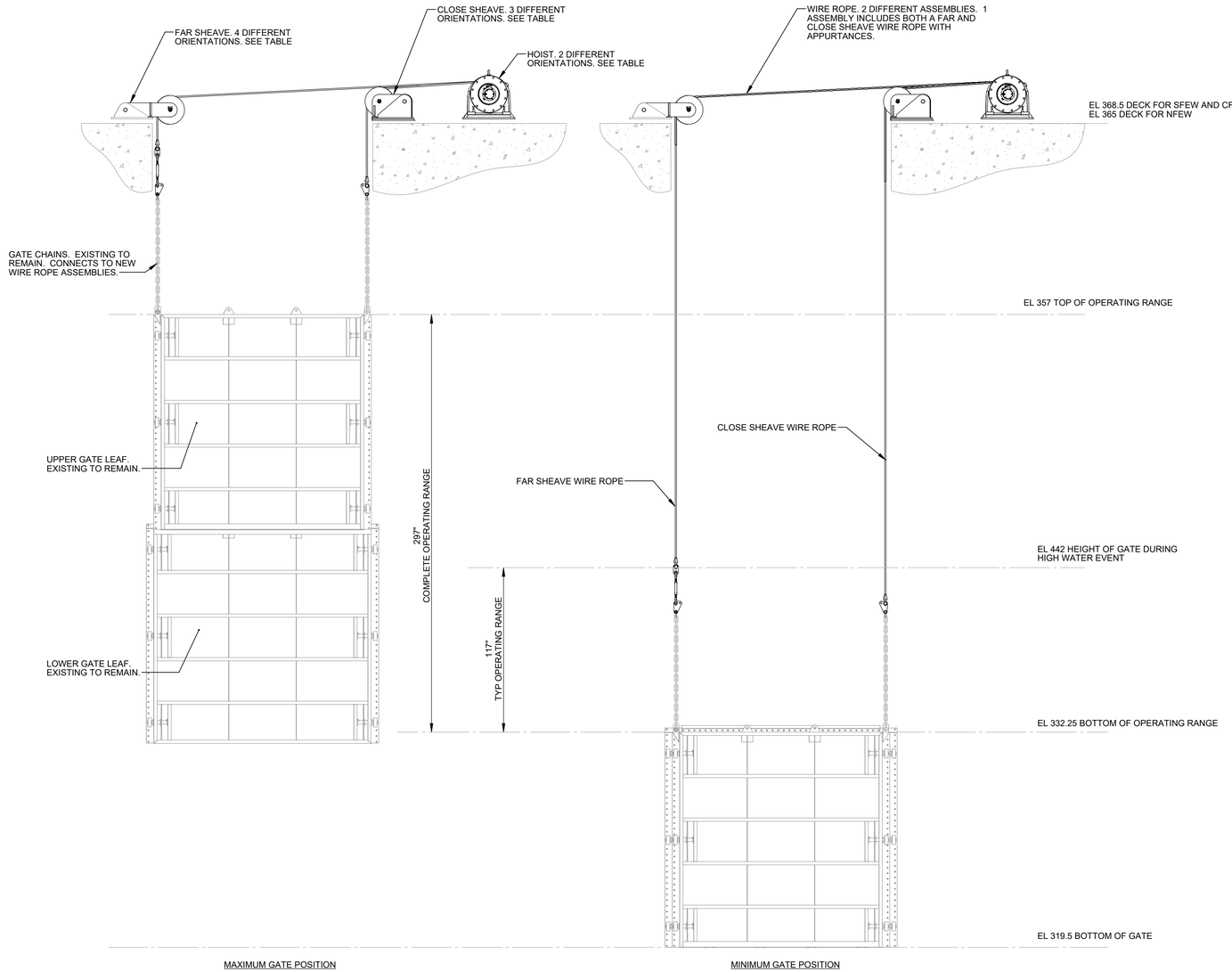
ITEM #	DESCRIPTION	QTY FOR SFEW-1	QTY FOR SFEW-2	QTY FOR CFEW-1	QTY FOR CFEW-2	QTY FOR NFEW-1	QTY FOR NFEW-2	TOTAL QTY
1	HOIST SKID RH ASSEMBLY	1		1		1		3
2	HOIST SKID LH ASSEMBLY		1		1		1	3
-	-	-	-	-	-	-	-	-
3	SFEW & CFEW WIRE ROPE ASSEMBLY	1	1	1	1			4
4	NFEW WIRE ROPE ASSEMBLY					1	1	2
-	-	-	-	-	-	-	-	-
5	FAR SHEAVE RH ASSEMBLY	1		1				2
6	FAR SHEAVE LH ASSEMBLY		1		1			2
7	FAR SHEAVE RH - NFEW ASSEMBLY					1		1
8	FAR SHEAVE LH - NFEW ASSEMBLY						1	1
-	-	-	-	-	-	-	-	-
9	CLOSE SHEAVE RH - RIGHT NOTCH ASSEMBLY	1		1		1		3
10	CLOSE SHEAVE LH - LEFT NOTCH ASSEMBLY				1		1	2
11	CLOSE SHEAVE LH - RIGHT NOTCH ASSEMBLY		1					1

GENERAL NOTES

1.NOTE 1

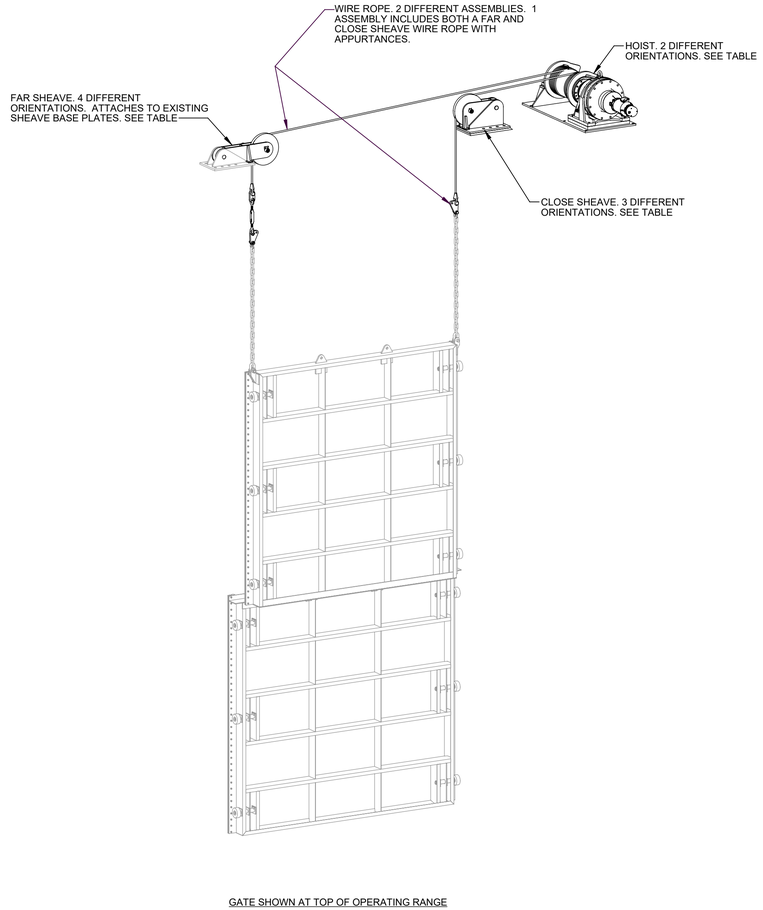
2.NOTE 2

3.NOTE 3



A1 TYP ELEVATION VIEWS OF GATES

SCALE: 1/4" = 1' 0"



GATE SHOWN AT TOP OF OPERATING RANGE

A13 3D VIEW OF NEW HOIST, SHEAVES, AND WIRE ROPES

SCALE: NTS

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
		06/03/2026

FILE PATH: M-501 - MACHINERY COMPLETE ASSEMBLY SLDDRW

FILE PATH: Thursday, May 28, 2026

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WALLA WALLA DISTRICT
201 N. 3RD AVE.
WALLA WALLA, WA

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SUBMITTED BY: K FRENSHAM
SIZE: D
FILE NO.:
ISSUE DATE:
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CONTRACT NO.:

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
JOB TITLE: JOSEPH BATTAGLIA
WEIR GATE MACHINERY REPLACEMENT

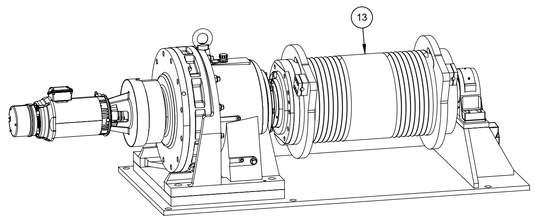
NEW HOIST, SHEAVE, AND WIRE ROPE COMPLETE ASSEMBLY DETAILS

SHEET ID

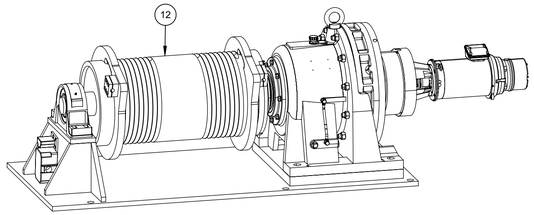
M-501

HOIST SKID ASSEMBLY PARTS LIST (QTYS LISTED ARE FOR 1 ASSEMBLY)

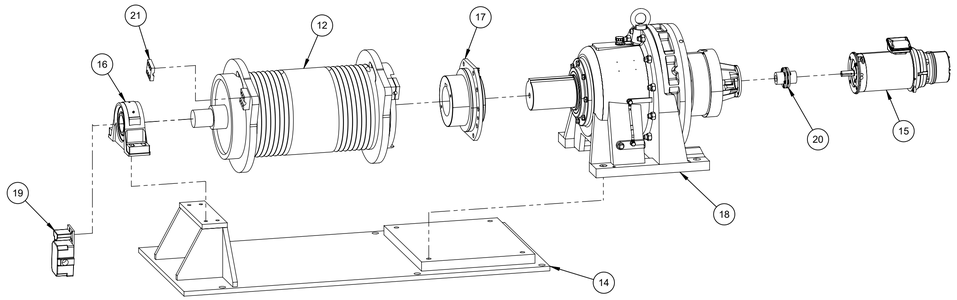
ITEM	RH QTY.	LH QTY.	DESCRIPTION	SHEET
12	1	-	HOIST DRUM RH	
13	-	1	HOIST DRUM LH	
14	1	1	HOIST SKID BASE	
15	1	1	1200 RPM, 2 HP, MOTOR WITH INTEGRAL BRAKE	
16	1	1	LOCATING SPHERICAL PILLOW BLOCK BEARING	
17	1	1	BARREL COUPLING	
18	1	1	3045:1 RATIO, 274000 IN-LB TORQUE, GEARBOX	
19	1	1	ROTARY LIMIT SWITCH	
20	1	1	FLEXIBLE SHAFT COUPLING	
21	2	2	DRUM WIRE ROPE TERMINATION CLIP	



(2) HOIST SKID LEFT HAND ASSEMBLY



(1) HOIST SKID RIGHT HAND ASSEMBLY

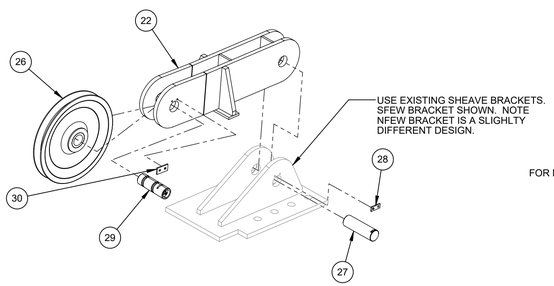


XX Drawing

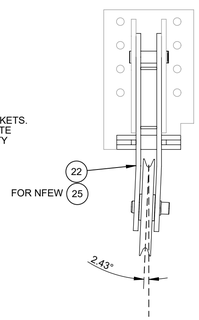
SCALE: XX" = 1' 0"

FAR SHEAVE ASSEMBLY PARTS LIST (QTYS LISTED ARE FOR 1 ASSEMBLY)

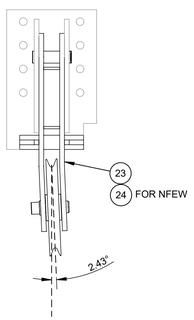
ITEM	RH QTY.	LH QTY.	LH - NFEW QTY.	RH - NFEW QTY.	DESCRIPTION	SHEET
22	1	-	-	-	FAR SHEAVE BRACKET RH	
23	-	1	-	-	FAR SHEAVE BRACKET LH	
24	-	-	1	-	FAR SHEAVE BRACKET LH NFEW	
25	-	-	-	1	FAR SHEAVE BRACKET RH NFEW	
26	1	1	1	1	.875 X 18 PD WIRE ROPE SHEAVE	
27	1	1	1	1	SHEAVE BASE PIN	
28	1	1	1	1	SHEAVE BASE PIN KEEPER PLATE	
29	1	1	1	1	LOAD CELL SHEAVE PIN	
30	1	1	1	1	LOAD CELL PIN KEEPER PLATE	



RIGHT HAND FAR SHEAVE EXPLODED VIEW



RIGHT HAND FAR SHEAVE



LEFT HAND FAR SHEAVE

XX Drawing

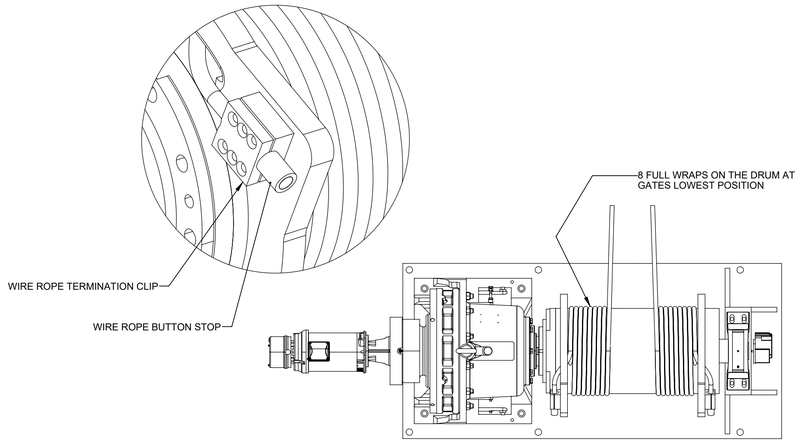
SCALE: XX" = 1' 0"

GENERAL NOTES

1.NOTE 1

2.NOTE 2

3.NOTE 3

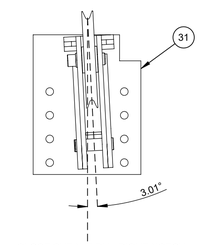


H13 WIRE ROPE ON DRUM DETAIL

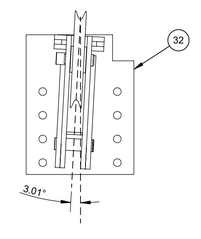
SCALE: XX" = 1' 0"

CLOSE SEAVEH ASSEMBLY PARTS LIST (QTYS LISTED ARE FOR 1 ASSEMBLY)

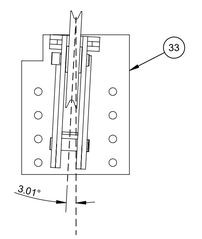
ITEM	QTY.	QTY.	QTY.	DESCRIPTION	SHEET
31	1	-	-	CLOSE SHEAVE BASE RH - RIGHT NOTCH	
32	-	1	-	CLOSE SHEAVE BASE LH - RIGHT NOTCH	
33	-	-	1	CLOSE SHEAVE BASE LH - LEFT NOTCH	
34	1	1	1	.875 X 18 PD WIRE ROPE SHEAVE	
35	1	1	1	CLOSE SHEAVE BRACKET	
36	1	1	1	SHEAVE BASE PIN	
37	1	1	1	SHEAVE BASE PIN KEEPER PLATE	
38	1	1	1	LOAD CELL SHEAVE PIN	
39	1	1	1	LOAD CELL PIN KEEPER PLATE	



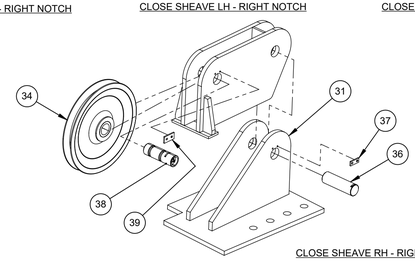
CLOSE SHEAVE RH - RIGHT NOTCH



CLOSE SHEAVE LH - RIGHT NOTCH



CLOSE SHEAVE LH - LEFT NOTCH



CLOSE SHEAVE RH - RIGHT NOTCH - EXPLODED VIEW

XX Drawing

SCALE: XX" = 1' 0"

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INTERIM REVIEW

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FILE NO:

ISSUE DATE:
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U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N. 3RD AVE.
WALLA WALLA, WA

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
DUAL FLEET MOBILE FLOATING CRANE
WEIR GATE MACHINERY REPLACEMENT

NEW HOIST, SHEAVE, AND WIRE ROPE COMPLETE ASSEMBLY DETAILS

SHEET ID

M-502

FILE PATH: M-501 - MACHINERY COMPLETE ASSEMBLY SLDDRW

FILE PATH: Thursday, May 28, 2026

GENERAL NOTES

1.NOTE 1

2.NOTE 2

3.NOTE 3

WILL ADD DETAIL FOR FINAL REVIEW

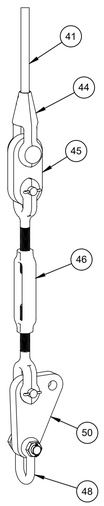
J11 ROTARY LIMIT SWITCH INSTALLATION DETAIL

SCALE: XX" = 1' 0"

WIRE ROPE LENGTHS FROM CENTER OF SPELTER SOCKET PIN TO END OF BUTTON STOP	
ALL WIRE ROPE IS 7/8" 6X41 WS IWRC EIPS WITH A MINIMUM BREAKING STRENGTH OF 79,600 LBS	
WIRE ROPE	LENGTH (IN)
40	736.5
41	619.5
42	
43	

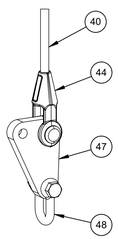
WIRE ROPE ASSEMBLY PARTS LIST (QTYS LISTED ARE FOR A SINGLE HOIST, EITHER LH OR RH)

ITEM	SFEW & CFEW QTY.	NFEW QTY.	DESCRIPTION	SHEET
40	1	-	SFEW & CFEW CLOSE SHEAVE WIRE ROPE	
41	1	-	SFEW & CFEW FAR SHEAVE WIRE ROPE	
42	-	1	NFEW CLOSE SHEAVE WIRE ROPE	
43	-	1	NFEW FAR SHEAVE WIRE ROPE	
44	2	2	7/8" WIRE ROPE SPELTER SOCKET	
45	1	1	SPELTER SOCKET TO TURNBUCKLE ADAPTER PLATE	
46	1	1	1 IN ROD X 6 IN ADJUSTMENT CLEVIS X CLEVIS TURNBUCKLE	
47	1	1	SPELTER SOCKET X CHAIN ADAPTER PLATE	
48	2	2	.875 D RING SHACKLE	
49	2	2	WIRE ROPE BUTTON STOP	
50	1	1	TURNBUCKLE X CHAIN ADAPTER PLATE	



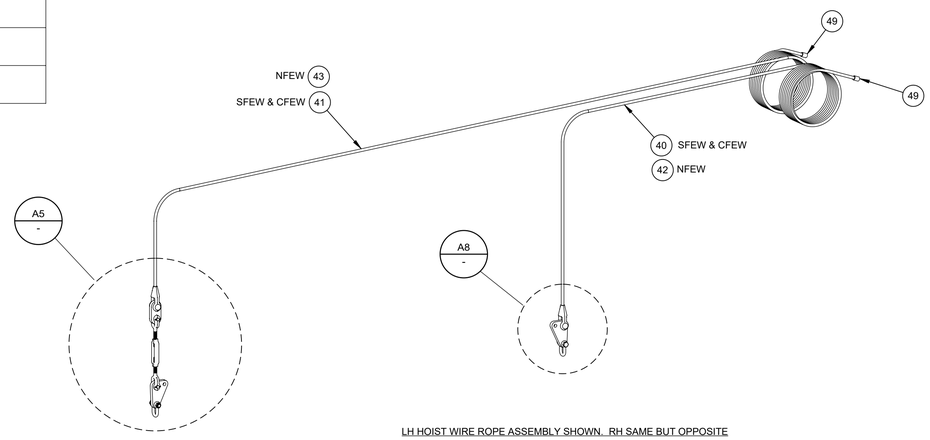
A5 FAR ROPE END

SCALE: NTS



A8 CLOSE ROPE END

SCALE: NTS



LH HOIST WIRE ROPE ASSEMBLY SHOWN. RH SAME BUT OPPOSITE

A11 3D VIEW WIRE ROPE DETAIL

SCALE: NTS

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INTERIM REVIEW 06/03/2026

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FILE NO:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
IN LIEU LOWER GRANITE AND LOWER MONUMENTAL
WEIR GATE MACHINERY REPLACEMENT

NEW HOIST, SHEAVE, AND WIRE ROPE COMPLETE ASSEMBLY DETAILS

SHEET ID

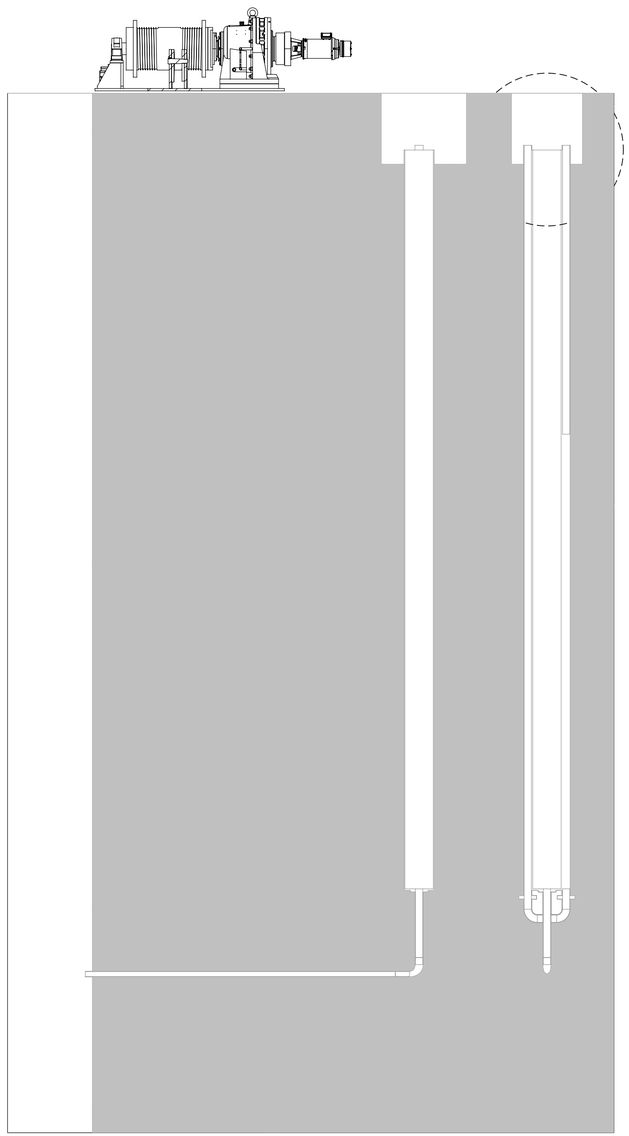
M-503

FILE PATH: M-501 - MACHINERY COMPLETE ASSEMBLY.SLDDRW

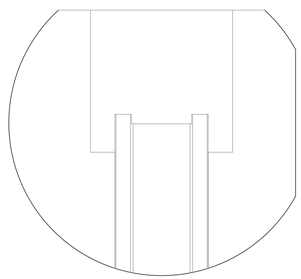
FILE PATH: Thursday, May 28, 2026

GENERAL NOTES

1. SEE TABLE ON M-501 FOR ASSEMBLY DESCRIPTIONS



A1 LEVEL SENSOR WELL DETAILS
SCALE: XX" = 1' 0"



A10 TOP OF SENSOR WELL DETAIL
SCALE: XX" = 1' 0"

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INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

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DRAWN BY: M MCLEAN 5-27-2026
CHECKED BY: T BALLAS
SUBMITTED BY: K FRENSHAM, PE
SIZE: D
FILE NO.
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CONTRACT NO.:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N. 3RD AVE.
WALLA WALLA, WA

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON, AND IDAHO
ADULT FISH FACILITIES IMPROVEMENTS
WEIR GATE MACHINERY REPLACEMENT

NORTH FISHWAY ENTRANCE WEIR (NFEW) OVERVIEW

SHEET ID
M-504

FILE PATH: M-101 - 103 - M-504.SLDDRW
FILE PATH: Monday, June 1, 2026

LEGEND

PLAN VIEW BREAK LINE

ABBREVIATIONS

CB	CIRCUIT BREAKER
CFE	CENTRAL FISHWAY ENTRANCE
CFEW	CENTRAL FISHWAY ENTRANCE WEIR
CR	CONTROL RELAY
CS	CONTROL SWITCH
FSC	FISHWAY SYSTEM CONTROL
HMI	HUMAN MACHINE INTERFACE
HP	HORSE POWER
LSL	LOWER LIMIT SWITCH
LSR	RAISE LIMIT SWITCH
M	MOTOR RELAY
MCC	MOTOR CONTROL CENTER
NFE	NORTH FISHWAY ENTRANCE
NFEW	NORTH FISHWAY ENTRANCE WEIR
PB	PUSH BUTTON
PLC	PROGRAMMABLE LOGIC CONTROLLER
RECP	RECEPTACLE
RMC	RIGID METAL CONDUIT
SFE	SOUTH FISHWAY ENTRANCE
SFEW	SOUTH FISHWAY ENTRANCE WEIR
SS	SELECTOR SWITCH
TOL	THERMAL OVERLOAD RELAY

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INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

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6/1/2026 2:56:29 PM

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DRAWN BY: Author
CHECKED BY: Checker
SUBMITTED BY:
ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EF##X#####
CONTRACT NO.:
SIZE: ANSI D
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

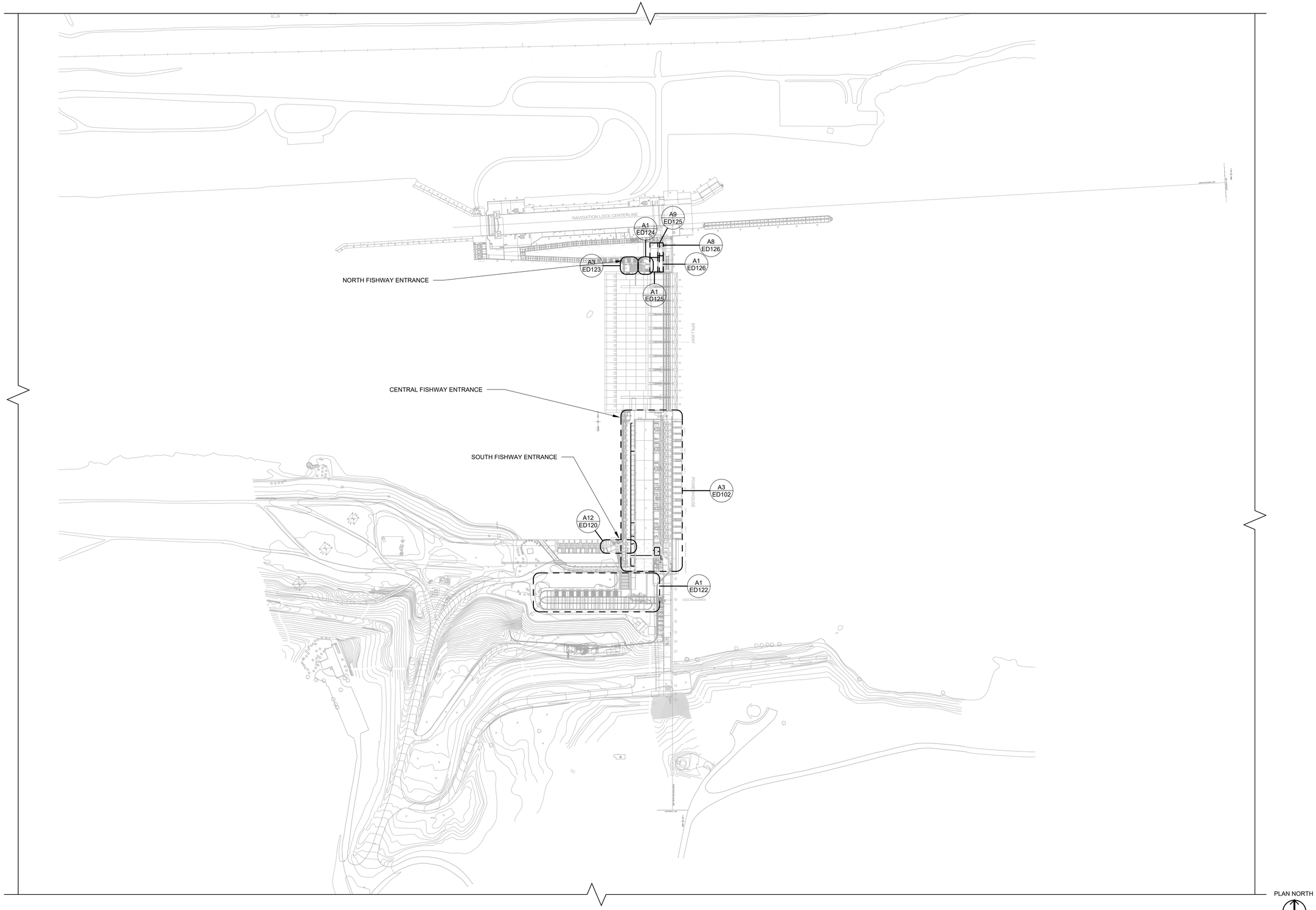
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

ELECTRICAL LEGEND

SHEET ID

E-001

INTERIM



A1 DEMOLITION - ICE HARBOR ELECTRICAL SITE PLAN

SCALE: 1" = 200'-0"

US Army Corps of Engineers®

INTERIM REVIEW

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SUBMITTED BY: LEVI VAN STEDUM, PE	
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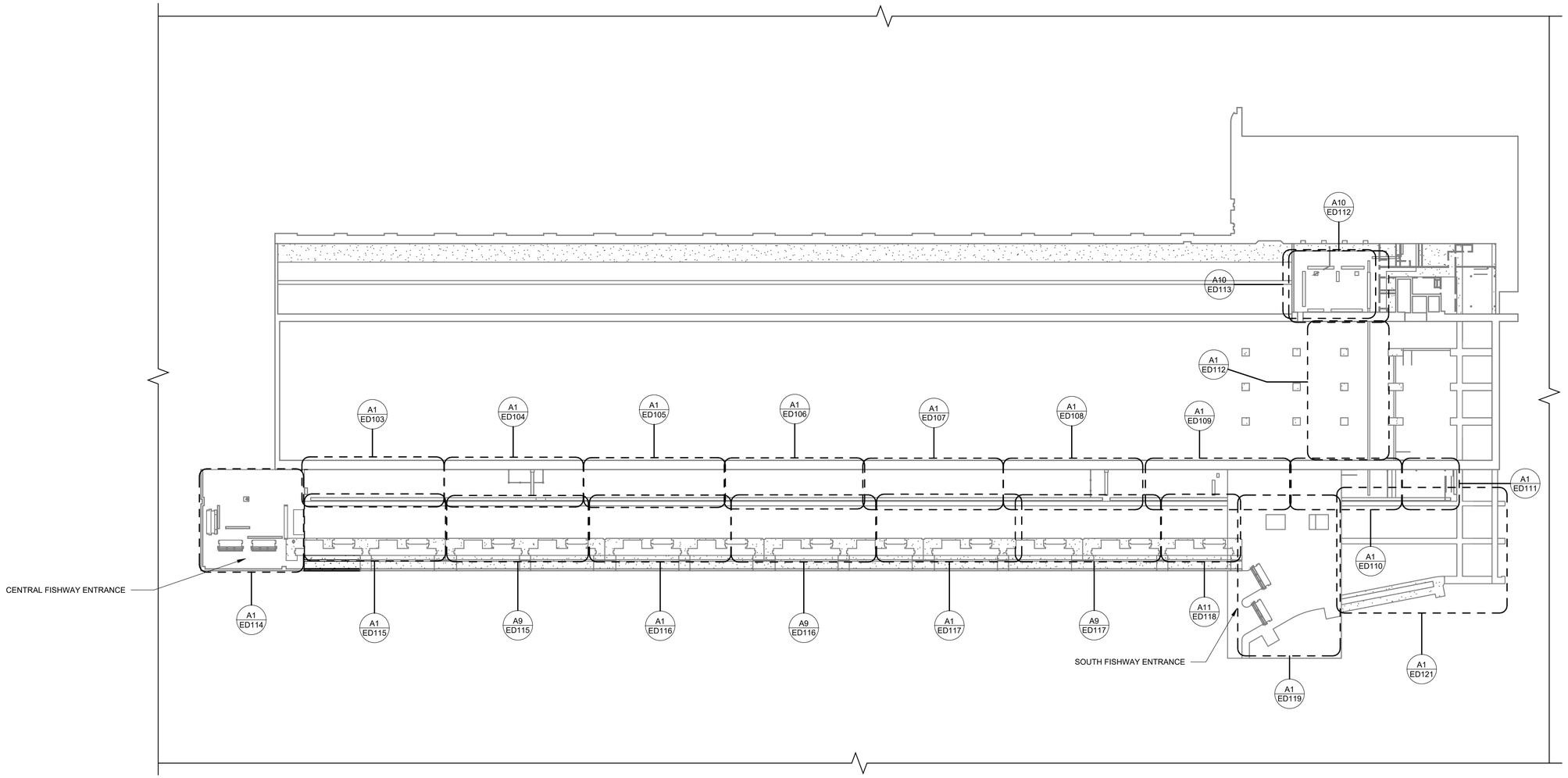
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

ICE HARBOR ELECTRICAL SITE PLAN - DEMOLITION

SHEET ID

ED101

INTERIM



PLAN NORTH

0 16' 32' 64'

A3 DEMOLITION - SFE, CFE, FISHWAY GALLERY, AND CONTROL ROOM ELECTRICAL SITE PLAN

SCALE: 1/32" = 1'-0"

US Army Corps of Engineers®

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

ICE HARBOR ELECTRICAL SITE PLAN - DEMO

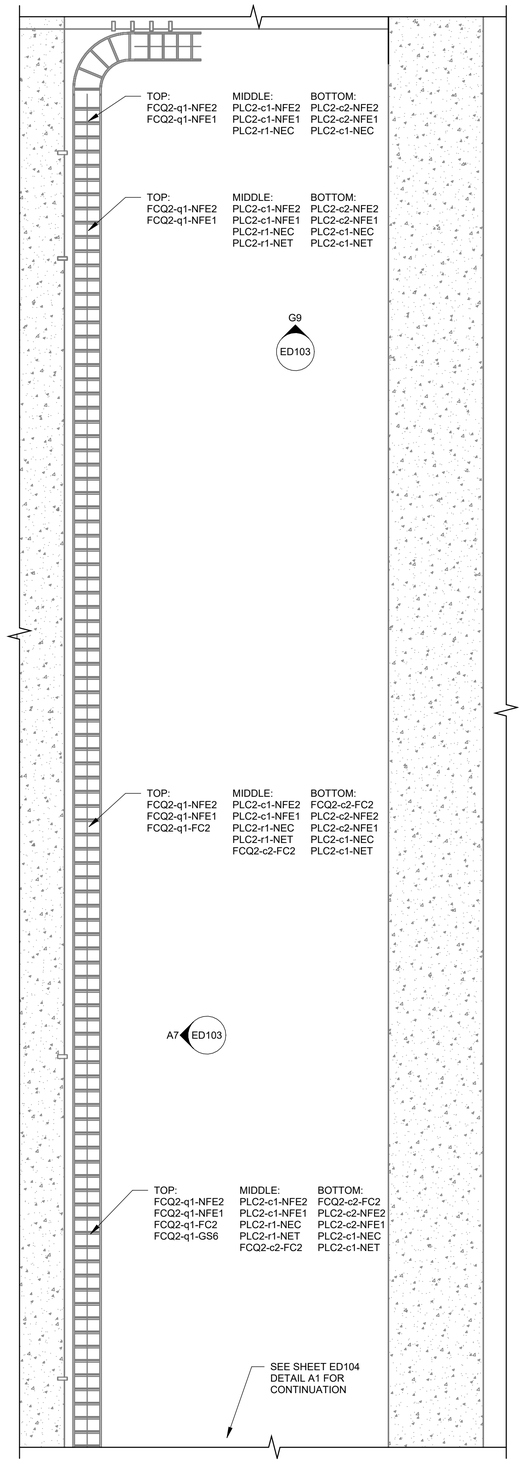
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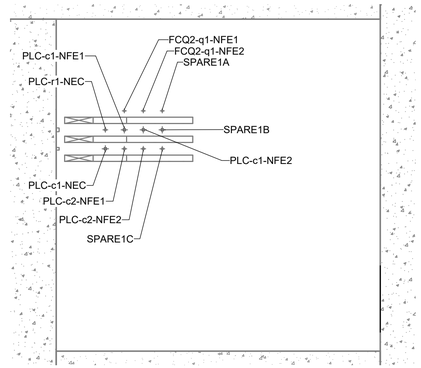
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A1 DEMOLITION - FISHWAY GALLERY - PIERS 7 & 6

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

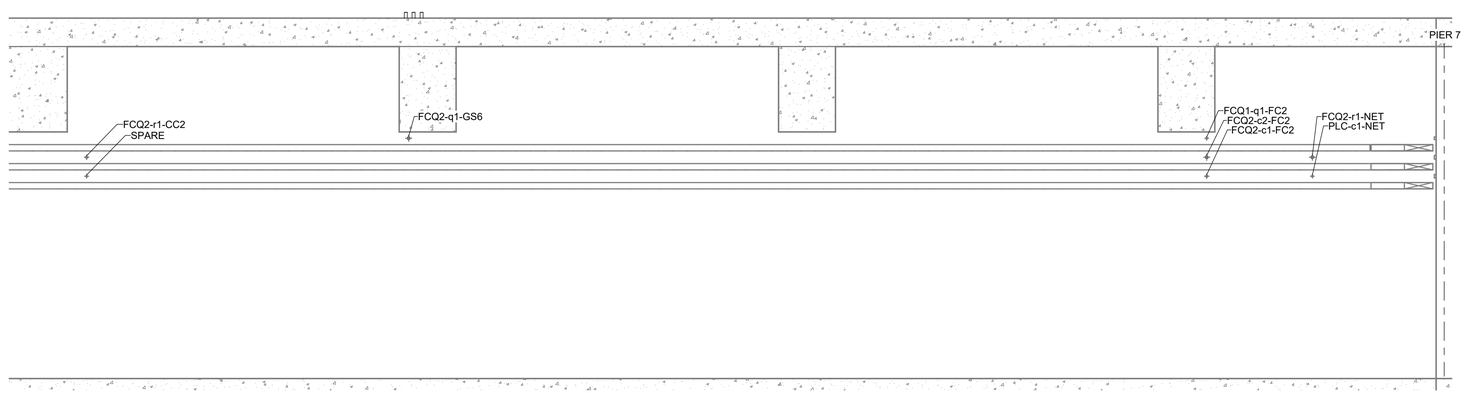
0 2' 4' 8'



G9 CABLE TRAY ELEVATION VIEW

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

0 2' 4' 8'



A7 CABLE TRAY CONDUIT STUBS ELEVATION VIEW

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

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

DEMOLITION

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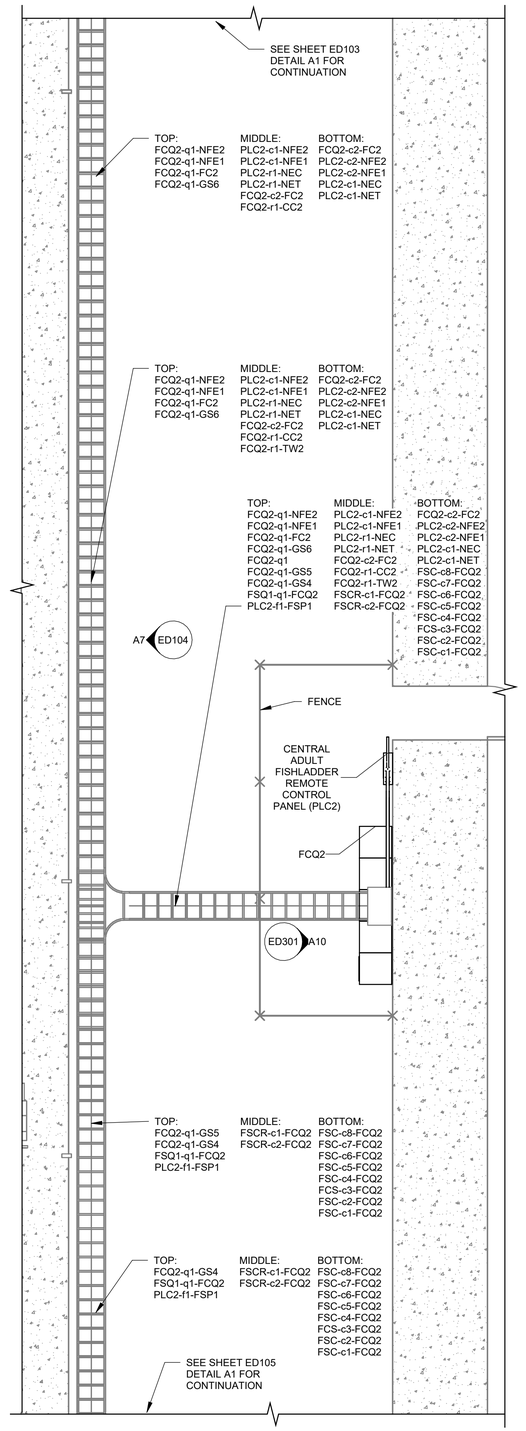
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CENTRAL FISHWAY GALLERY DEMOLITION

SHEET ID

ED103

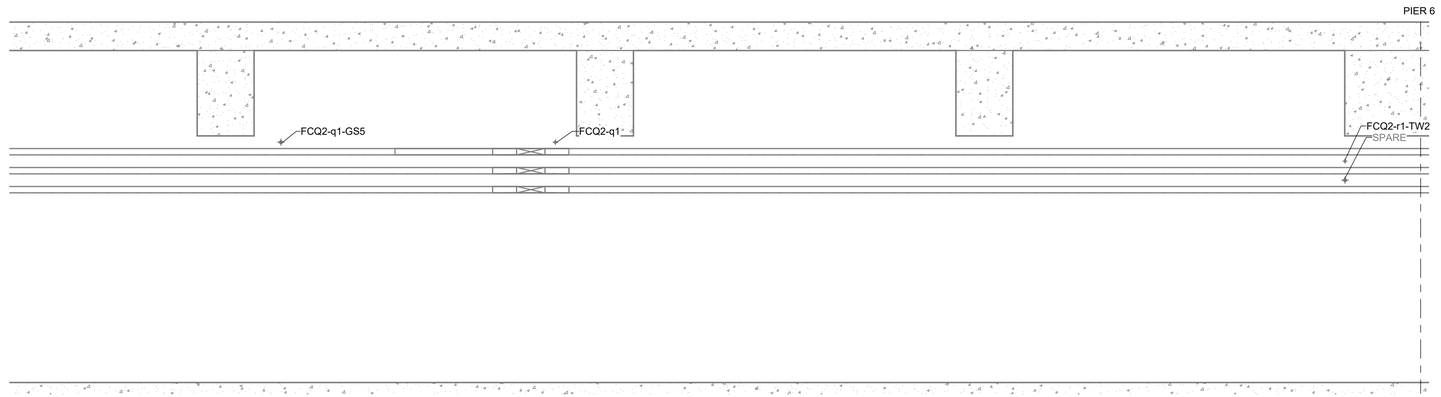
INTERIM



A1 DEMOLITION - FISHWAY GALLERY AND FCQ2

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

0 2' 4' 8'



A7 CABLE TRAY CONDUIT STUBS ELEVATION VIEW1

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

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

DEMOLITION

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CENTRAL FISHWAY GALLERY DEMOLITION

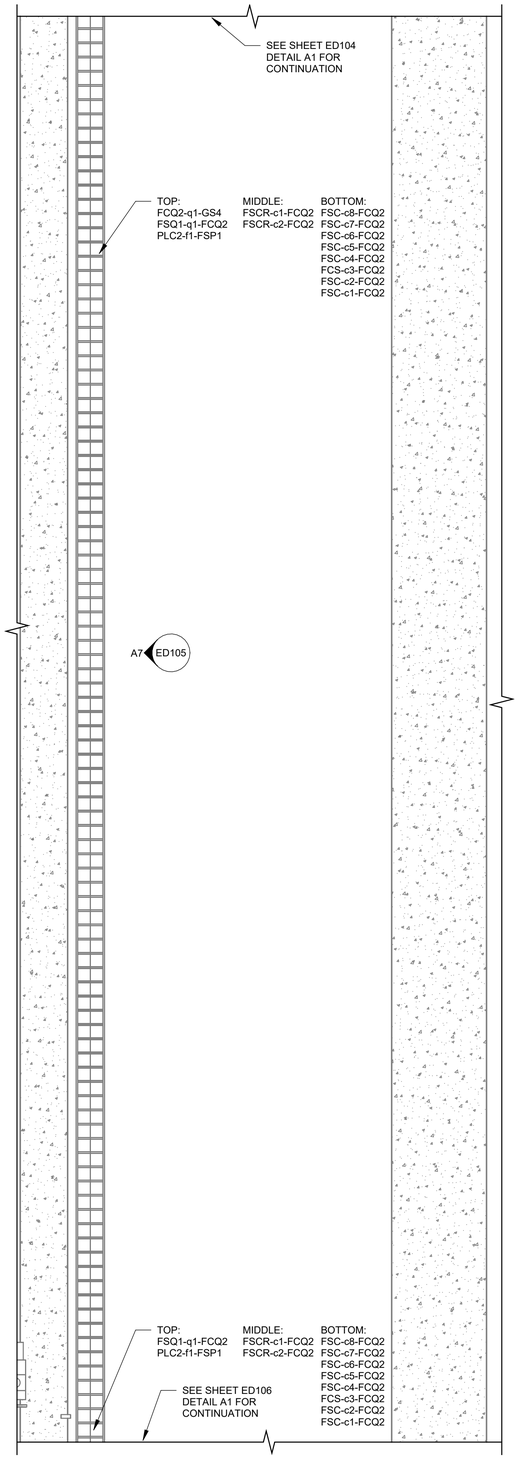
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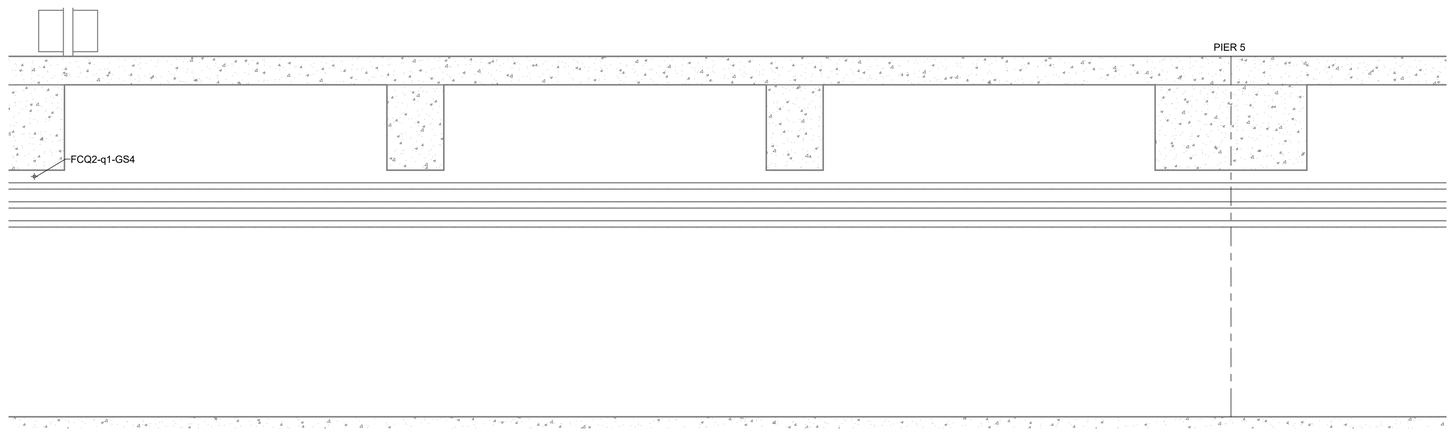
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A1 DEMOLITION - FISHWAY GALLERY P5 T0 P4

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

0 2' 4' 8'



A7 CABLE TRAY CONDUIT STUBS ELEVATION VIEW2

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

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

DEMOLITION

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CENTRAL FISHWAY GALLERY DEMOLITION

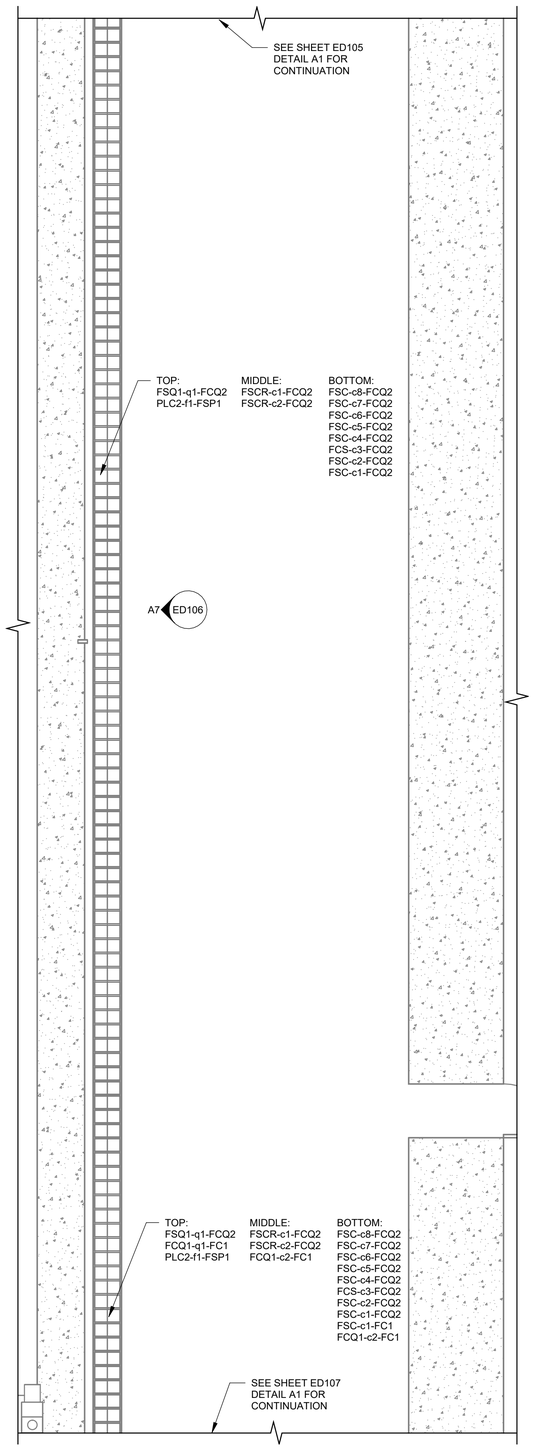
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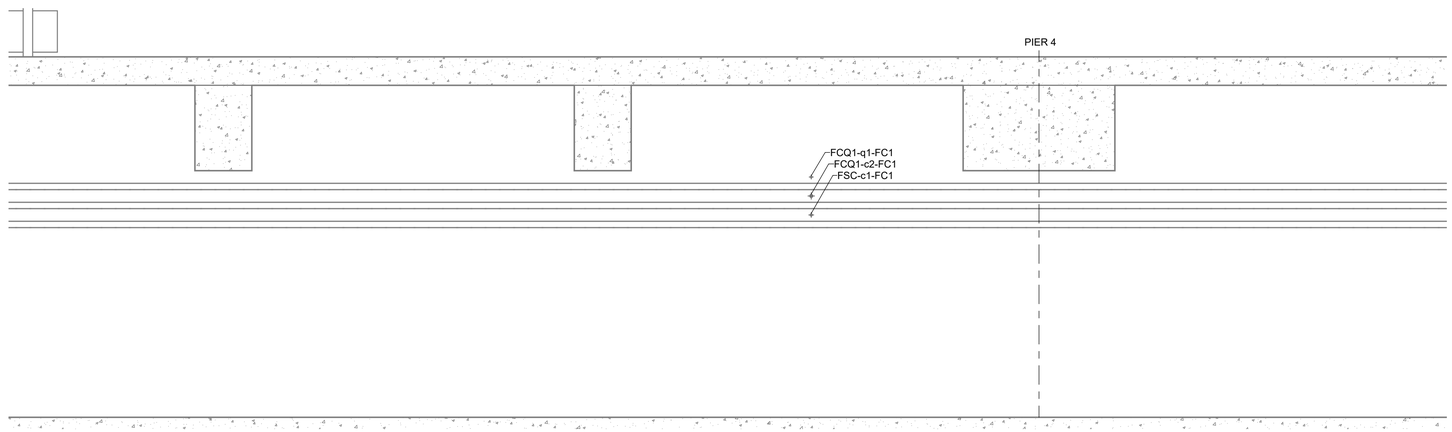
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A1 DEMOLITION - FISHWAY GALLERY PIERS 4 TO 3

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

0 2' 4' 8'



A7 CABLE TRAY CONDUIT STUBS ELEVATION VIEW3

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

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

DEMOLITION

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

FISHWAY GALLERY DEMOLITION

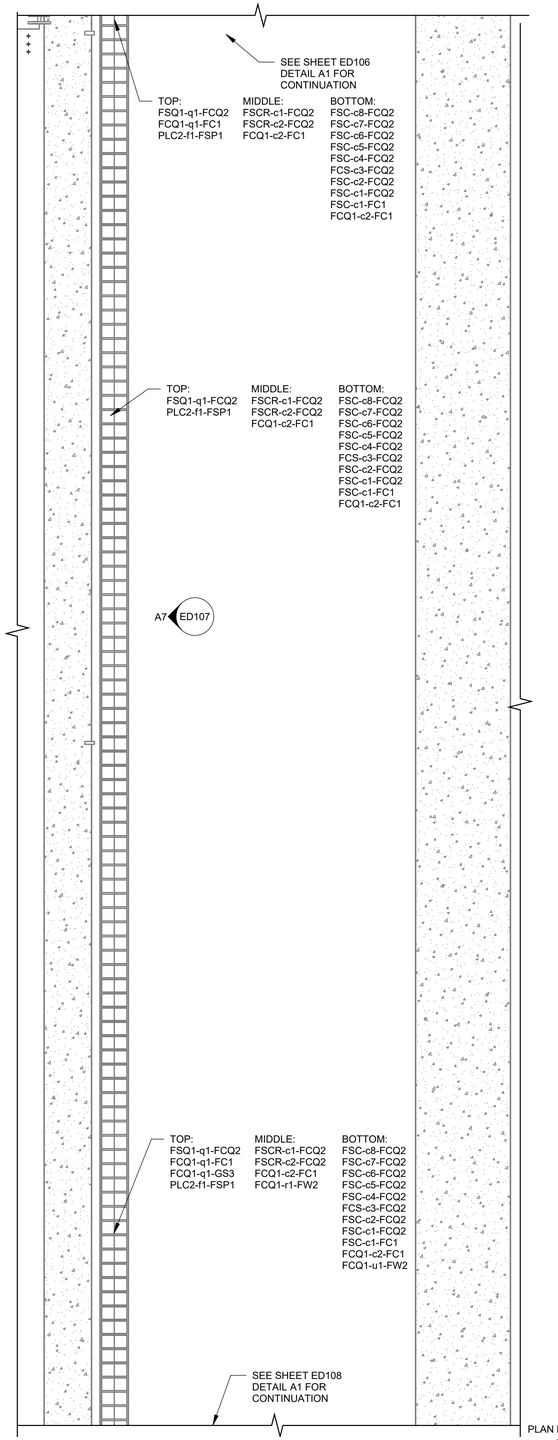
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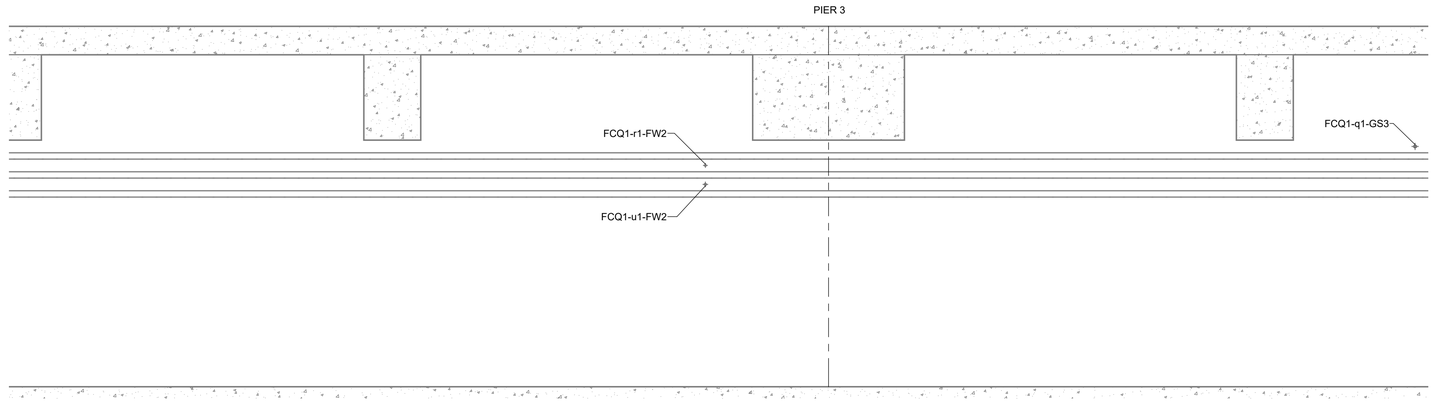
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A1 DEMOLITION - FISHWAY GALLERY PIERS 4 TO 2

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

0 2' 4' 8'



A7 CABLE TRAY CONDUIT STUBS ELEVATION VIEW4

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

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

DEMOLITION

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISHWAY GALLERY DEMOLITION

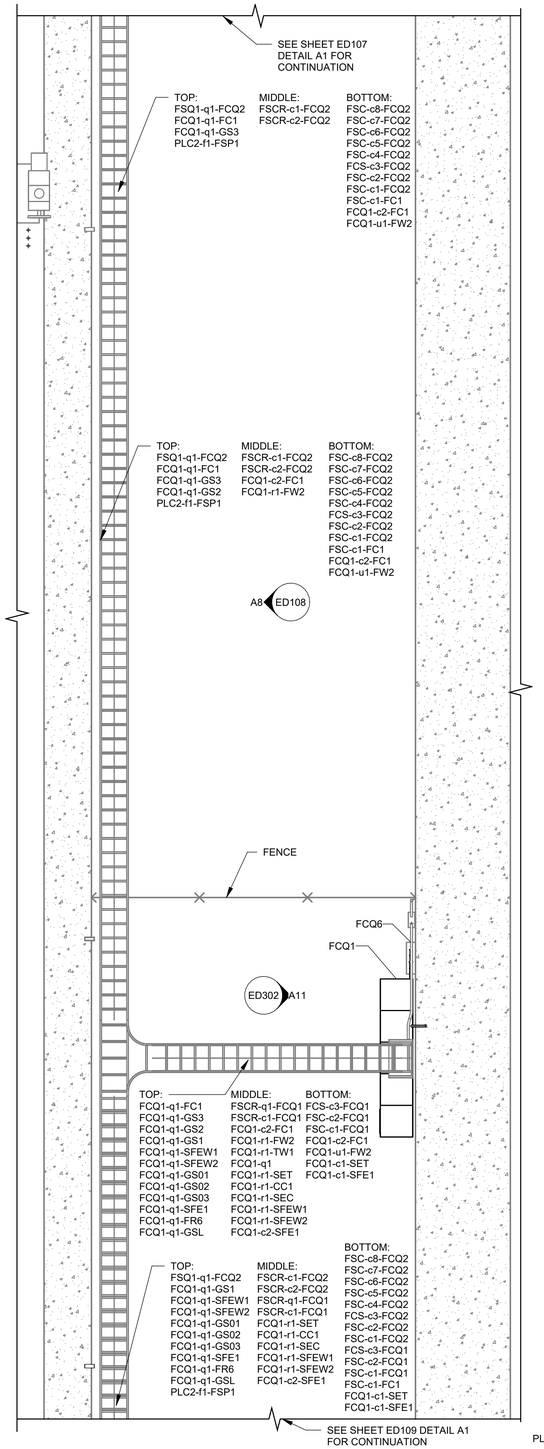
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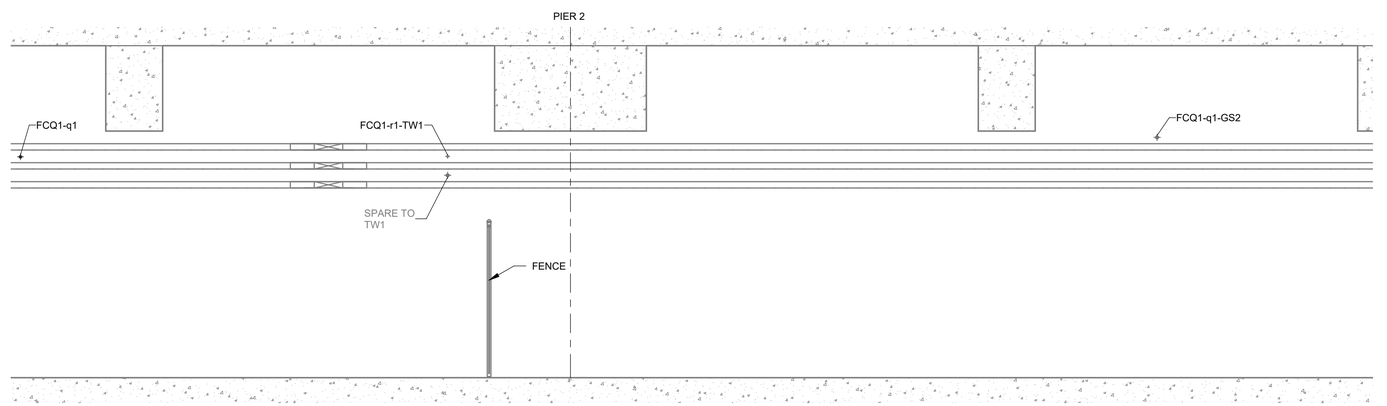
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A1 DEMOLITION - FISHWAY GALLERY AND FCQ1

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

0 2' 4' 8'



A8 CABLE TRAY CONDUIT STUBS ELEVATION VIEW5

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

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISHWAY GALLERY DEMOLITION

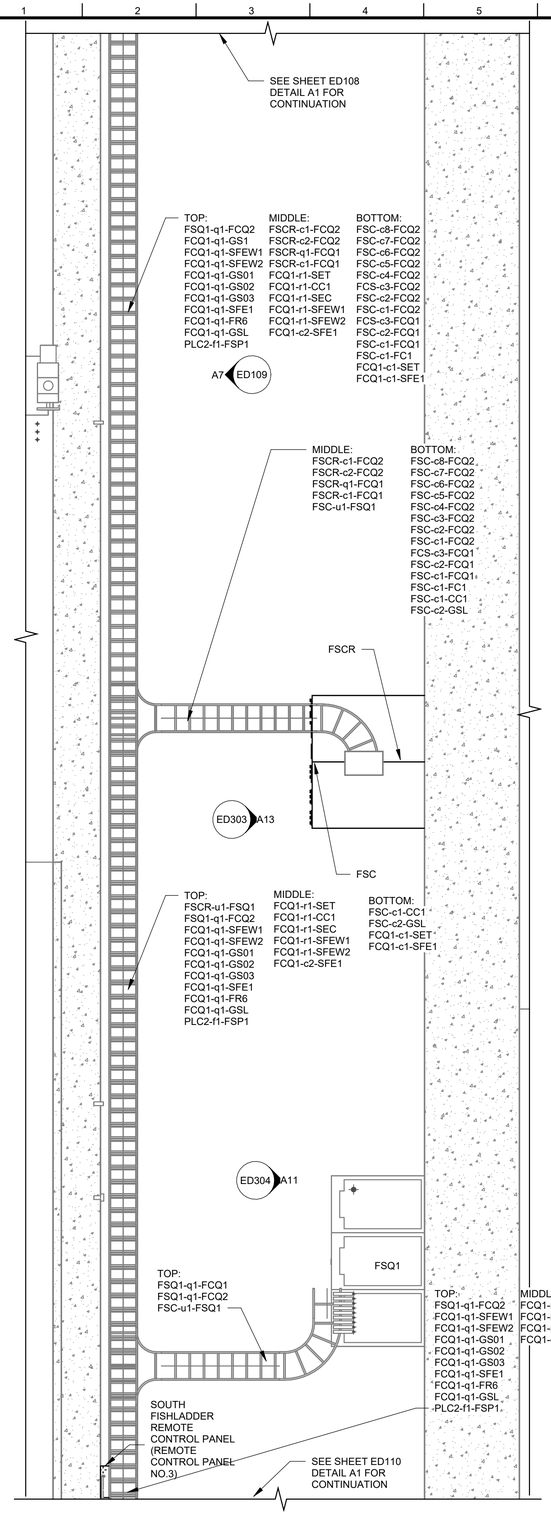
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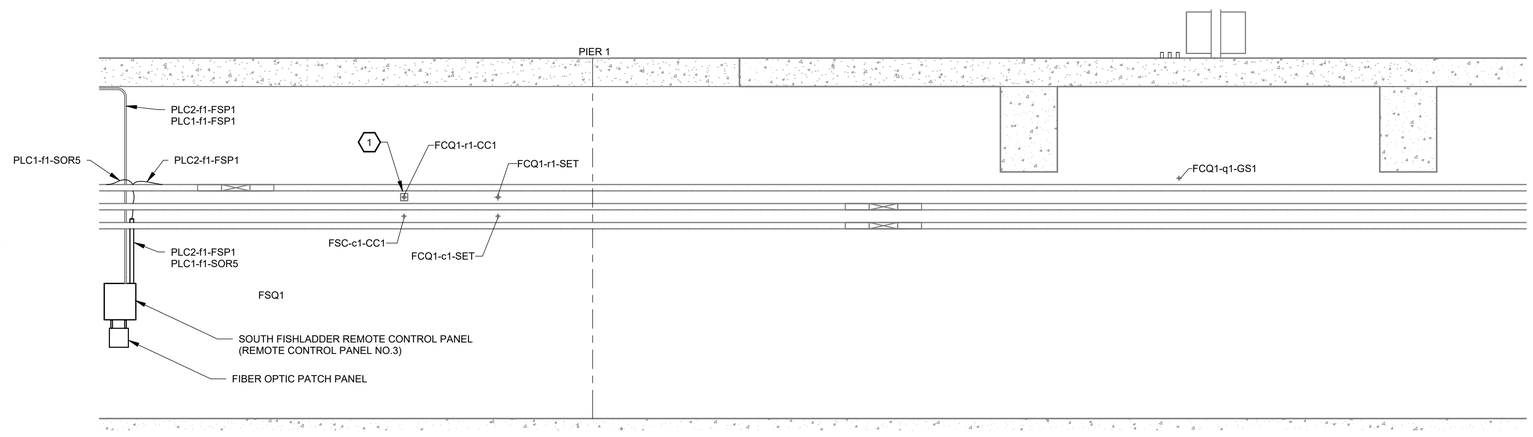
INTERIM



A1 DEMOLITION - FISHWAY GALLERY AND FSC

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

0 2' 4' 8'



A7 CABLE TRAY CONDUIT STUBS ELEVATION VIEW6

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

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1. JUNCTION BOX THAT SPLITS INTO TWO CABLES

LEGEND

EXISTING

DEMOLITION

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ICE HARBOR LOCK AND DAM
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SOUTH FISHWAY GALLERY DEMOLITION

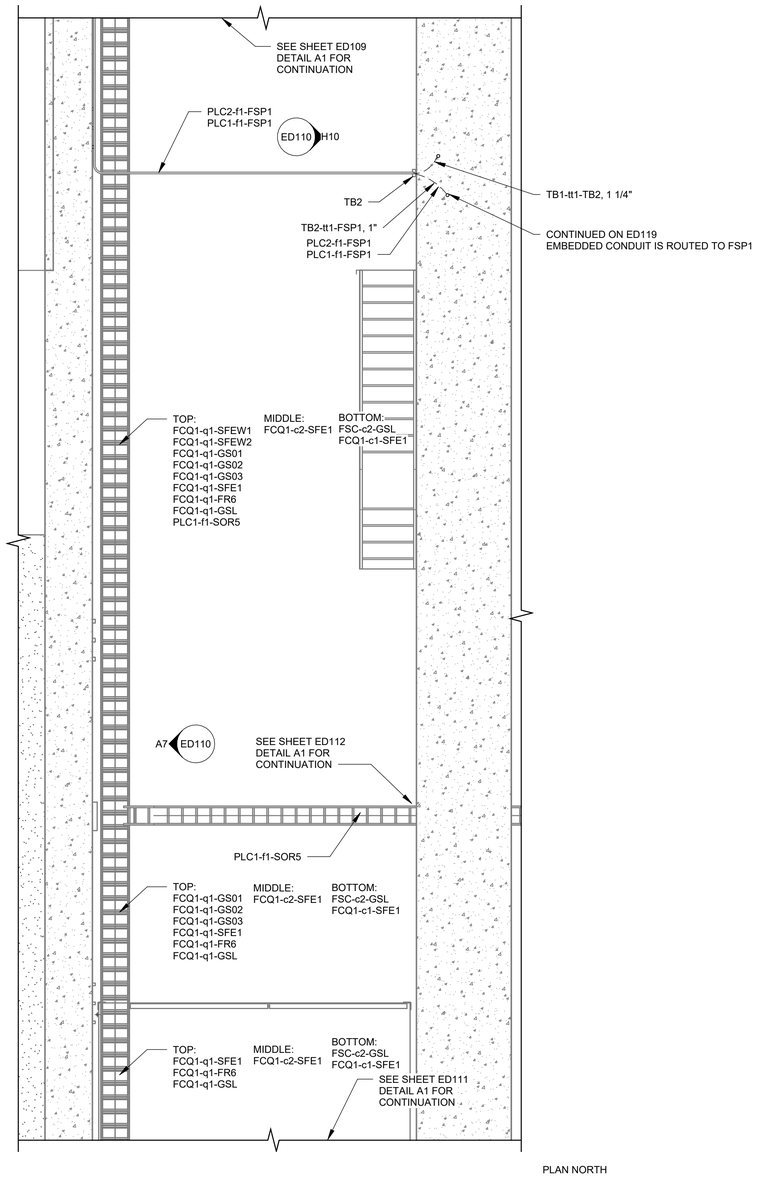
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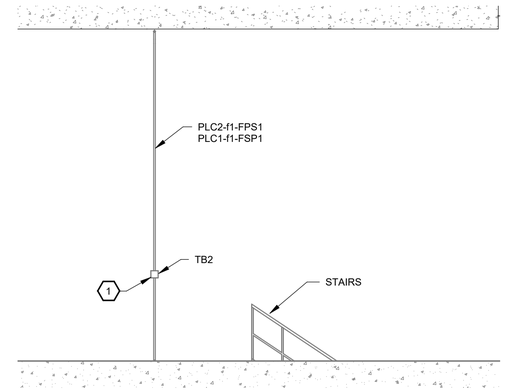
INTERIM



A1 DEMOLITION - FISHWAY GALLERY AND STAIRS

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

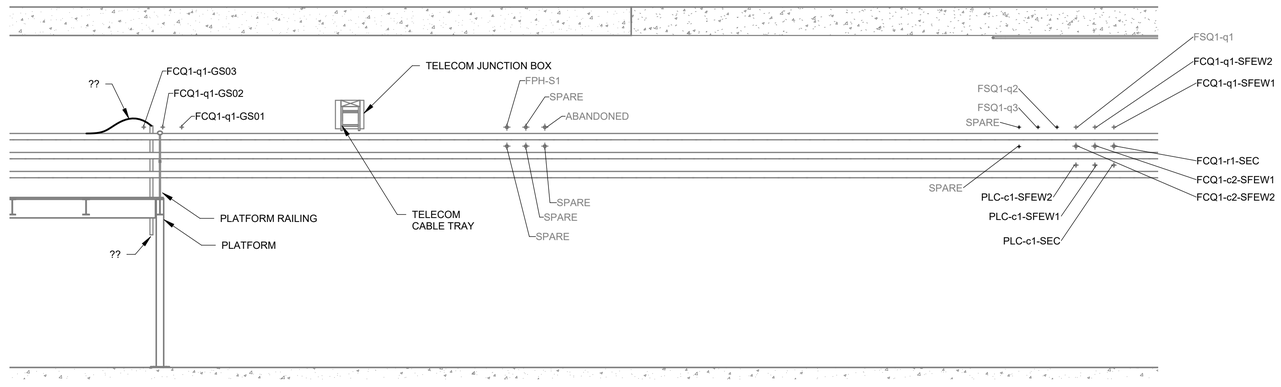
0 2' 4' 8'



H10 FISHWAY GALLERY UPSTREAM WALL FSQ1 & FIBER ROUTING

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

0 2' 4' 8'



A7 CABLE TRAY CONDUIT STUBS ELEVATION VIEW7

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

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1. FIBER IS ROUTED DOWN INTO THIS JUNCTION BOX AND EXITS OUT THE BACK OF THE JUNCTION BOX AND INTO EMBEDDED CONDUITS.

LEGEND

EXISTING

DEMOLITION

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISHWAY GALLERY DEMOLITION

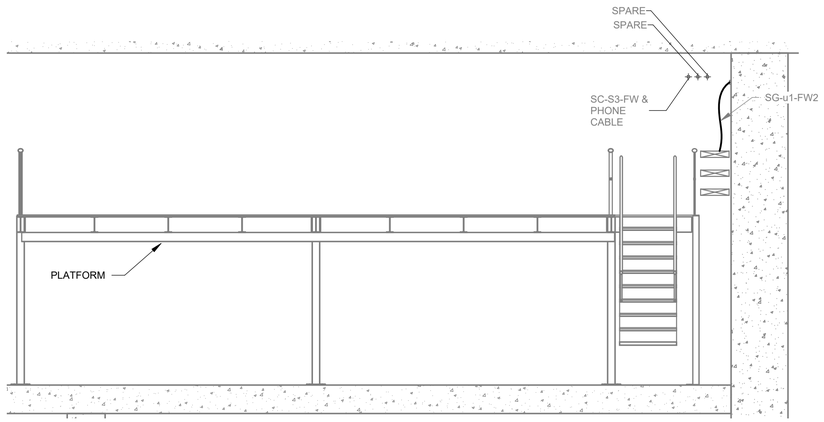
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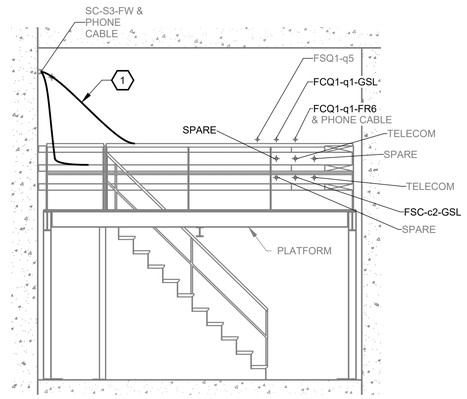
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INTERIM



K1 CONDUIT STUBS EAST ELEVATION VIEW
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



K11 SOUTH ELEVATION VIEW
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

GENERAL NOTES

1. PHONE CABLE TO REMAIN. COORDINATE WITH COR IF THIS PHONE CABLE NEEDS TO BE TEMPORARLY DISCONNECTED.

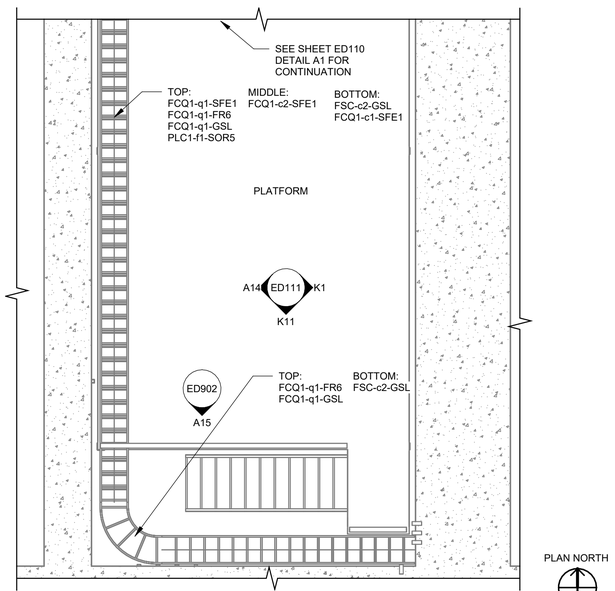
KEY NOTES

1. PHONE CABLE DO NOT DEMOLISH. COORDINATE WITH COR IF THIS CABLE HAS TO BE TEMPORARLY DISCONNECTED.

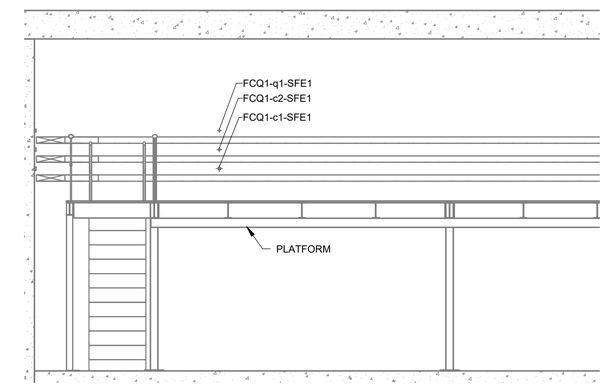
LEGEND

EXISTING

DEMOLITION



A1 DEMOLITION - FISHWAY GALLERY AND BALCONY
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



A14 CABLE TRAY CONDUIT STUBS WEST ELEVATION VIEW
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

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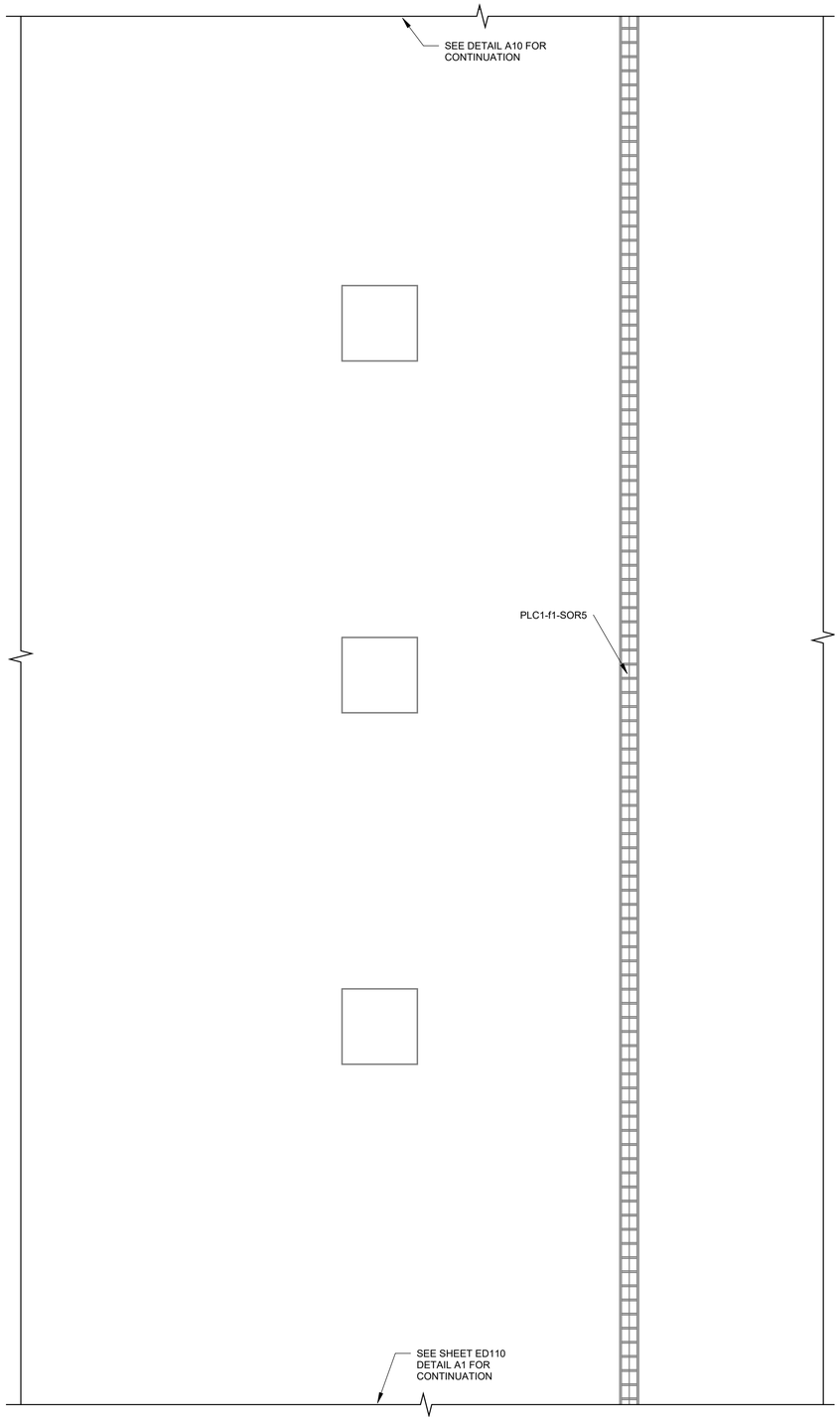
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISHWAY GALLERY DEMOLITION

SHEET ID
ED111

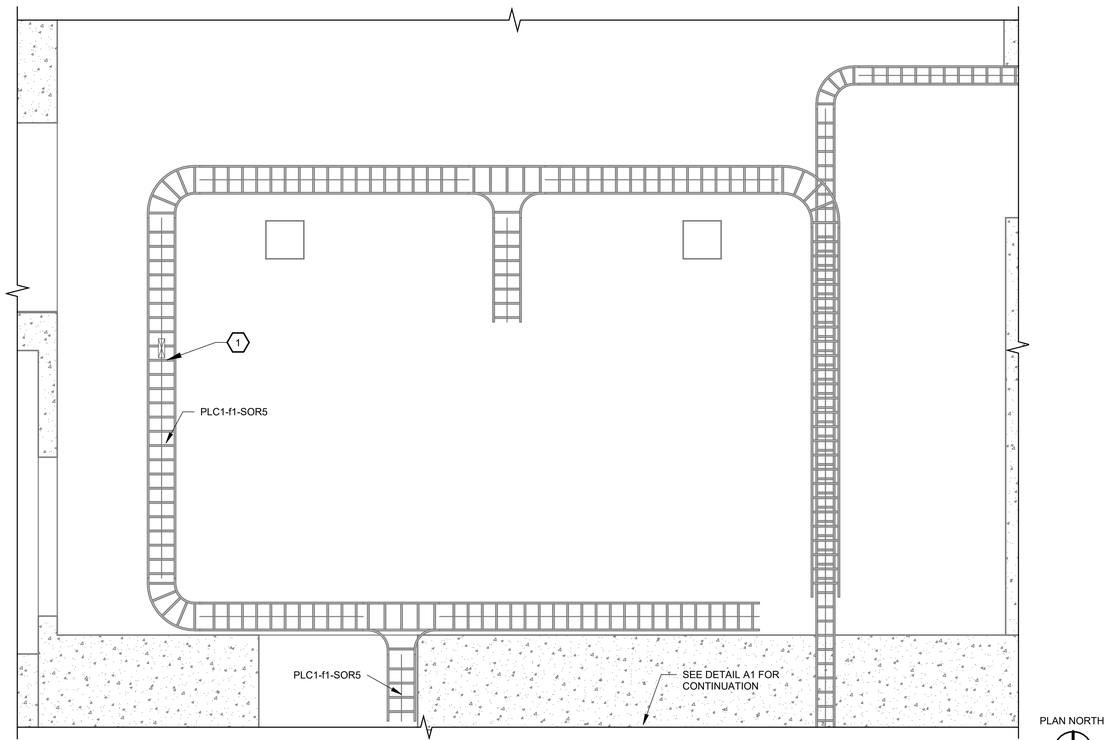
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INTERIM



A1 DEMOLITION - ERECTION BAY EL. 349.5

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



A10 DEMOLITION - CABLE SPREADING ROOM EL 349.5

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

GENERAL NOTES

1. EXACT ROUTING FOR FIBER TO BE DETERMINED AS OF INTERIM REVIEW.

KEY NOTES

1. FIBER RISES UP AND CONTINUES ON SHEET ED113.

LEGEND

EXISTING

DEMOLITION

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
		06/03/2026

DESIGNED BY: E. HEDINE
DRAWN BY: E. HEDINE
CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: ANSI D
ISSUE DATE: MMMMMMMM YYYY
SOLICITATION NO.: W912EF##X####
CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

ERECTION BAY FIBER ROUTING DEMOLITION

SHEET ID

ED112

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INTERIM

GENERAL NOTES

1. VERIFY CABLE ROUTING.

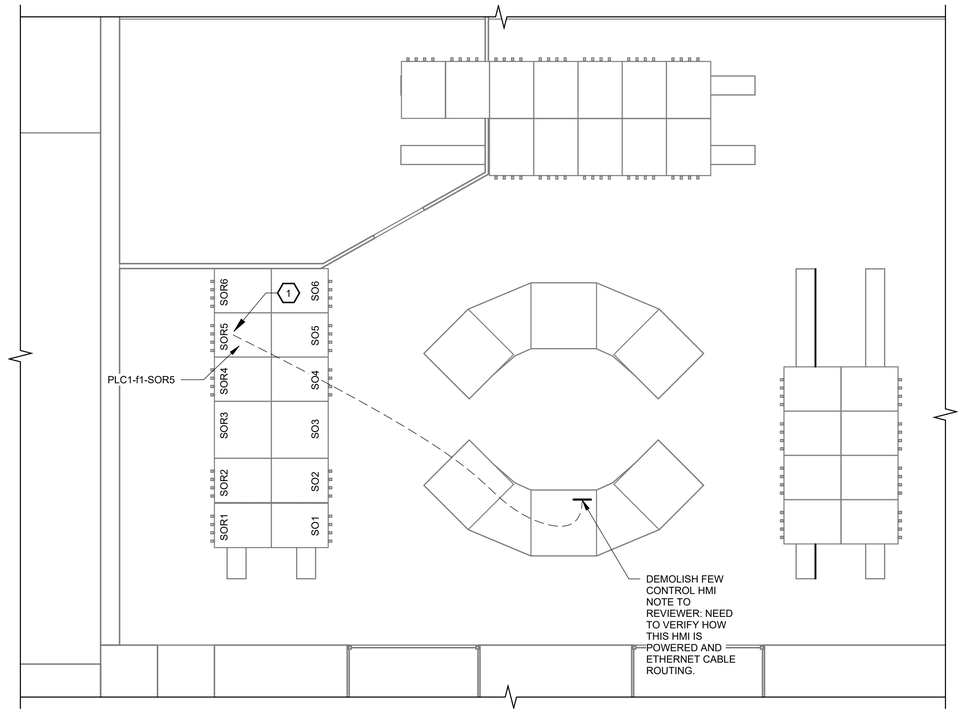
KEY NOTES

1. FSP1 FIBER ROUTES DOWN AND CONTINUES ON SHEET ED112. SEE ED203 FOR PLC/FIBER DIAGRAM.

LEGEND

EXISTING

DEMOLITION



A10 DEMOLITION - CONTROL ROOM

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

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INTERIM REVIEW

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CONTROL ROOM FIBER ROUTING DEMOLITION

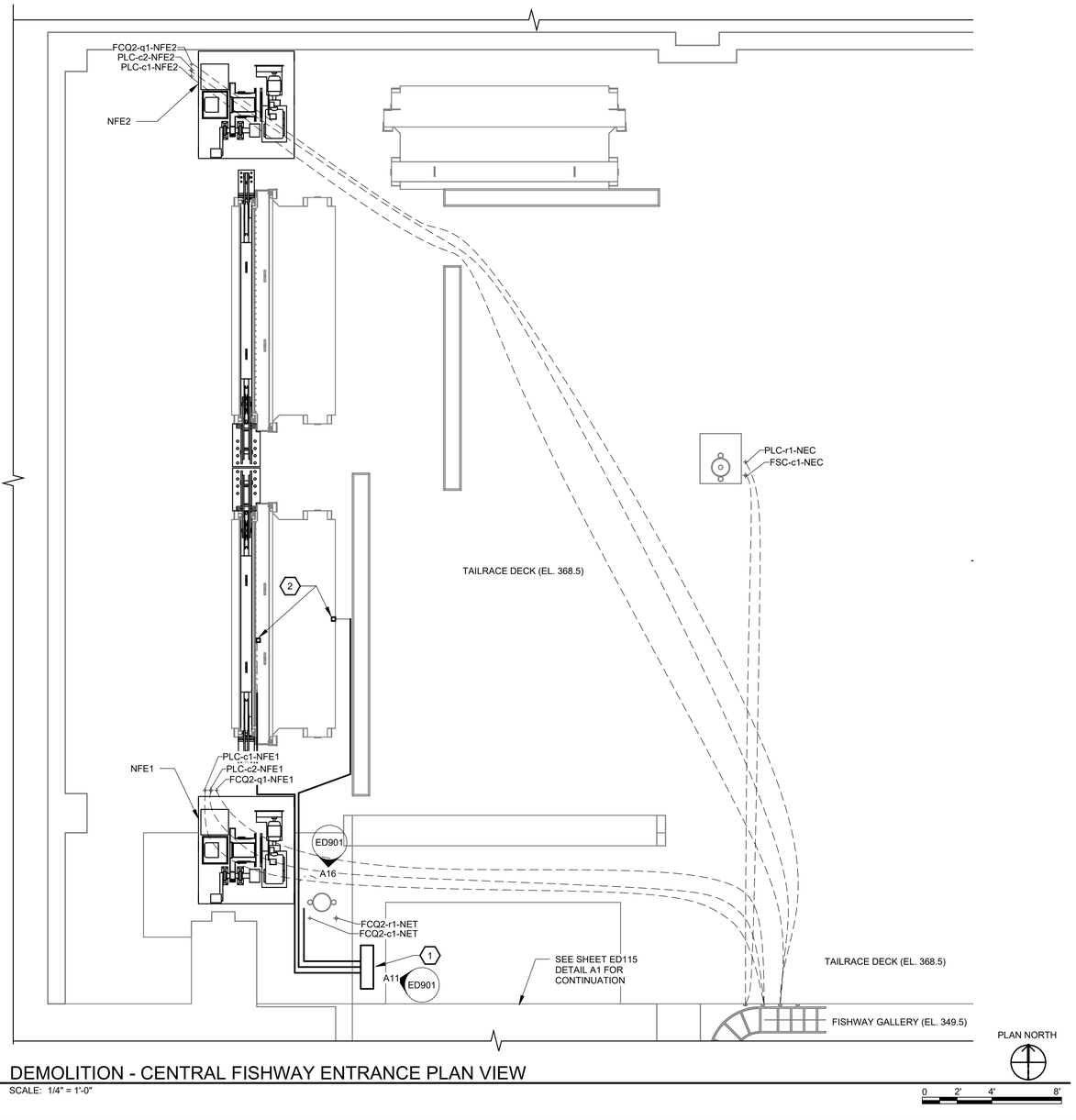
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ED113

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INTERIM



A1 DEMOLITION - CENTRAL FISHWAY ENTRANCE PLAN VIEW

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

GENERAL NOTES

1. ORIGINAL NAMING CONVENTION IS NFE NORTH FISHWAY ENTRANCE. NEW NAMING CONVENTION FOR WEIR GATES SHALL BE CFE CENTRAL FISHWAY ENTRANCE.

KEY NOTES

1. AIR-RANGER, STILL HAS POWER. USED WITH ULTRASONIC SENSORS. DEMOLISH ALL ASSOCIATED WIRING AND EQUIPMENT.

2. ULTRA SONIC SENSOR. TO BE DEMOLISHED AND HANDED OFF TO THE PROJECT.

LEGEND

EXISTING

DEMOLITION

EMBEDDED CONDUIT

US Army Corps of Engineers®

INTERIM REVIEW

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		06/03/2026

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CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: D
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SOLICITATION NO.: W912EF##X#####
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U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CENTRAL FISHWAY ENTRANCE DEMOLITION

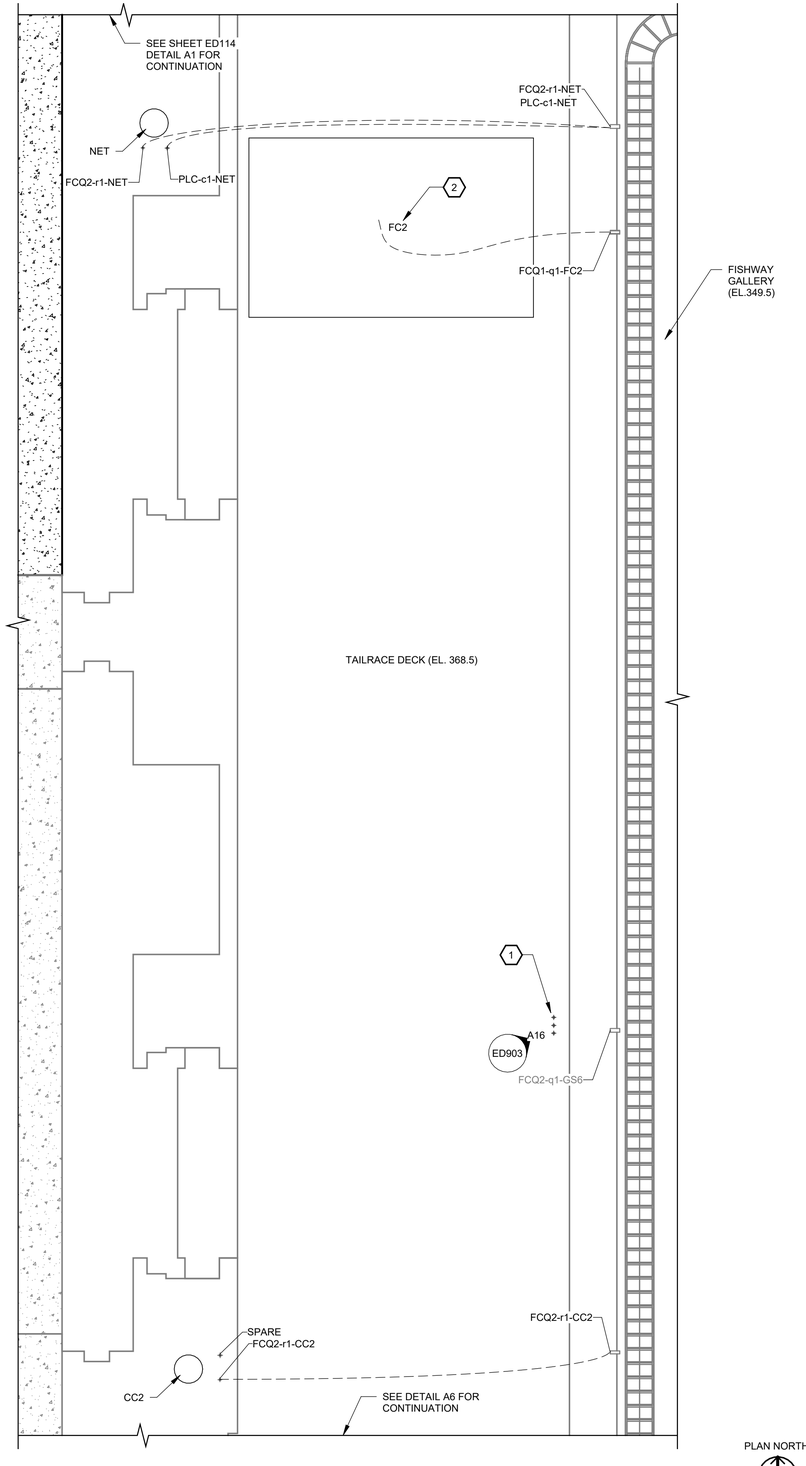
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ED114

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INTERIM

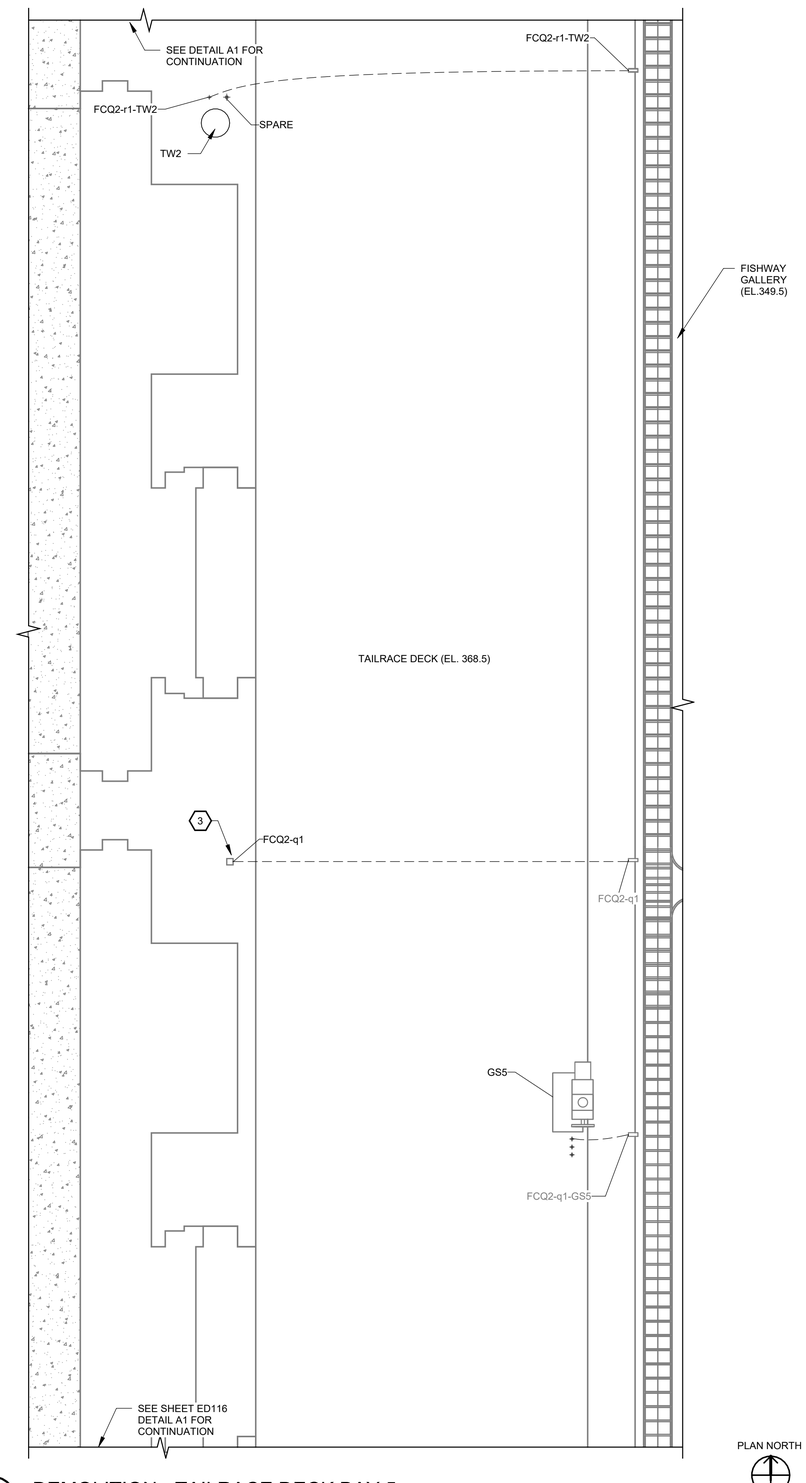


A1 DEMOLITION - TAILRACE DECK BAY 6

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

PLAN NORTH

0 2' 4' 8'



A9 DEMOLITION - TAILRACE DECK BAY 5

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

PLAN NORTH

0 2' 4' 8'

GENERAL NOTES

KEY NOTES

1. COLLECTION CHANNEL SLUICE GATE 6 HAS BEEN REMOVED. DEMOLISH ANY REMAINING CONDUCTORS.

2. FC2 WING GATE IS LOCATED UNDER THE TAILRACE DECK. CONTRACTOR TO DETERMINE EXACT CONDUIT/CABLE ROUTING.

3. DEMOLISH FCQ2-q1 UP TO THE FIRST TERMINATION.

LEGEND

EXISTING

DEMOLITION

EMBEDDED CONDUIT

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
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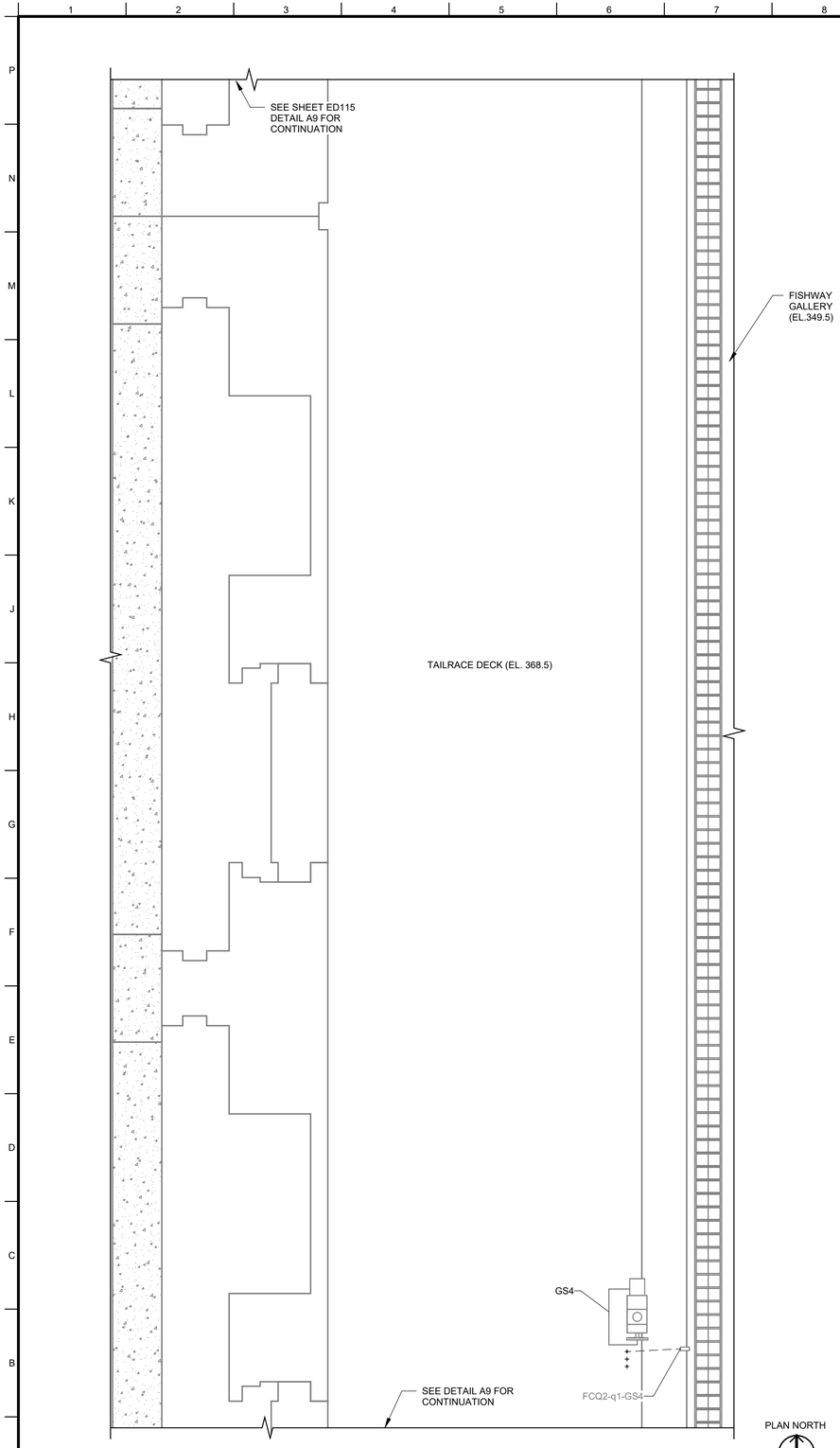
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

TAILRACE DECK BAYS 5 & 6 DEMOLITION

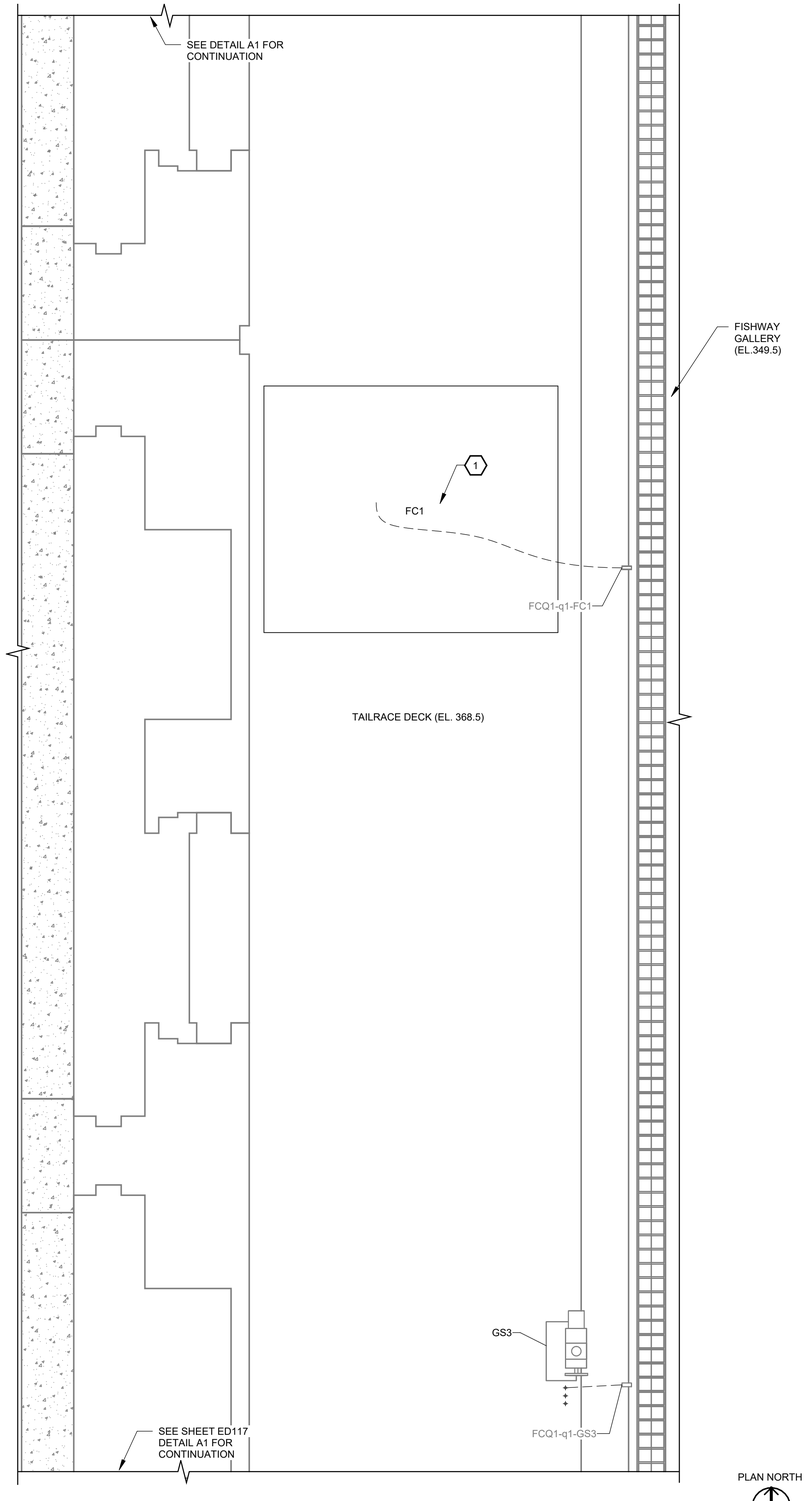
SHEET ID

ED115

INTERIM



A1 DEMOLITION - TAILRACE DECK BAY 4
SCALE: 1/4" = 1'-0"



A9 DEMOLITION - TAILRACE DECK BAY 3
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. MODEL IS NOT COMPLETE AS OF INTERIML DESIGN.

KEY NOTES

1. FC1 WING GATE IS LOCATED UNDER THE TAILRACE DECK. CONTRACTOR TO DETERMINE EXACT CONDUIT/CABLE ROUTING.

LEGEND

- EXISTING
- DEMOLITION
- EMBEDDED CONDUIT

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INTERIM REVIEW

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SUBMITTED BY: LEVI VAN STEDUM, PE
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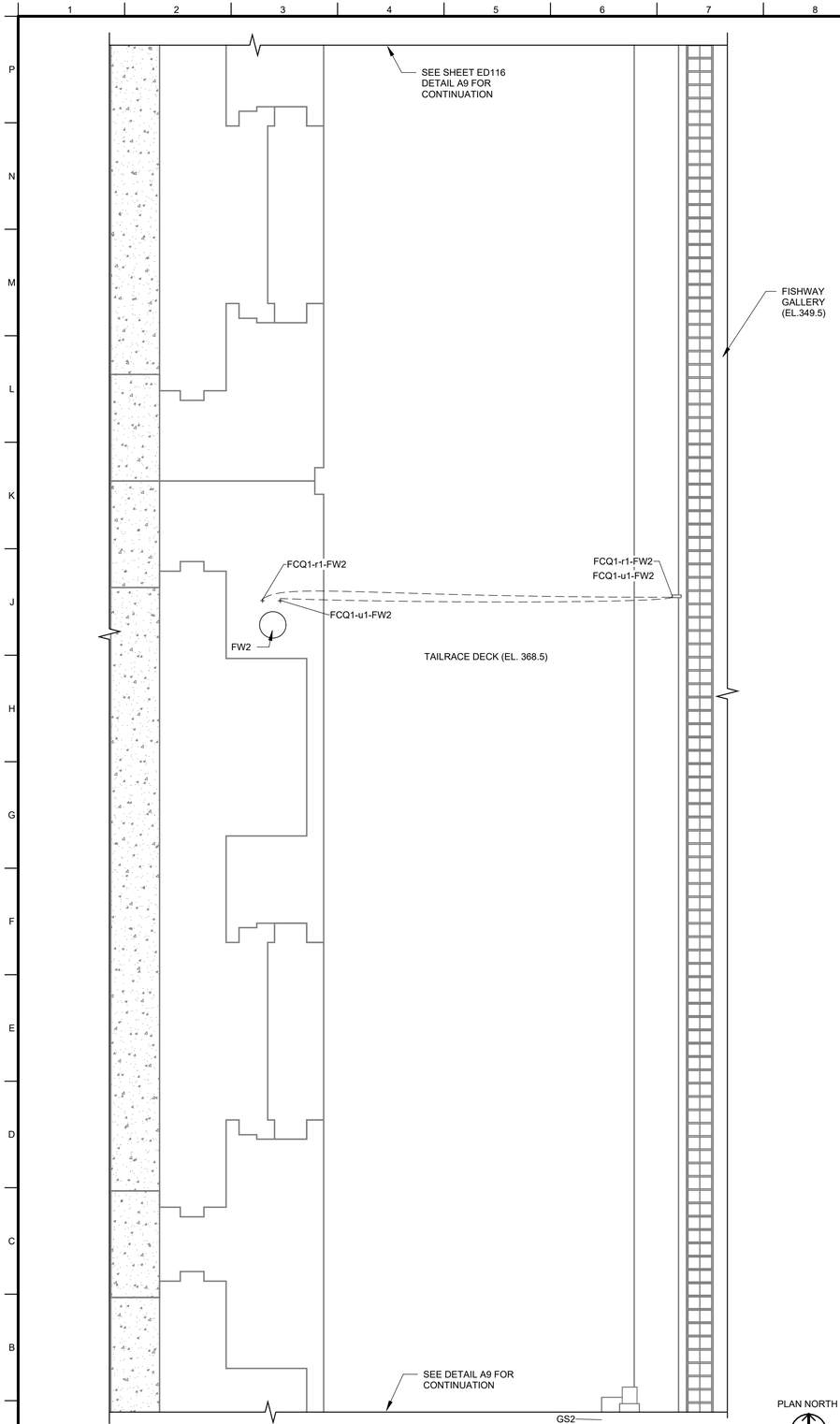
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

TAILRACE DECK BAYS 3 & 4 DEMOLITION

SHEET ID
ED116

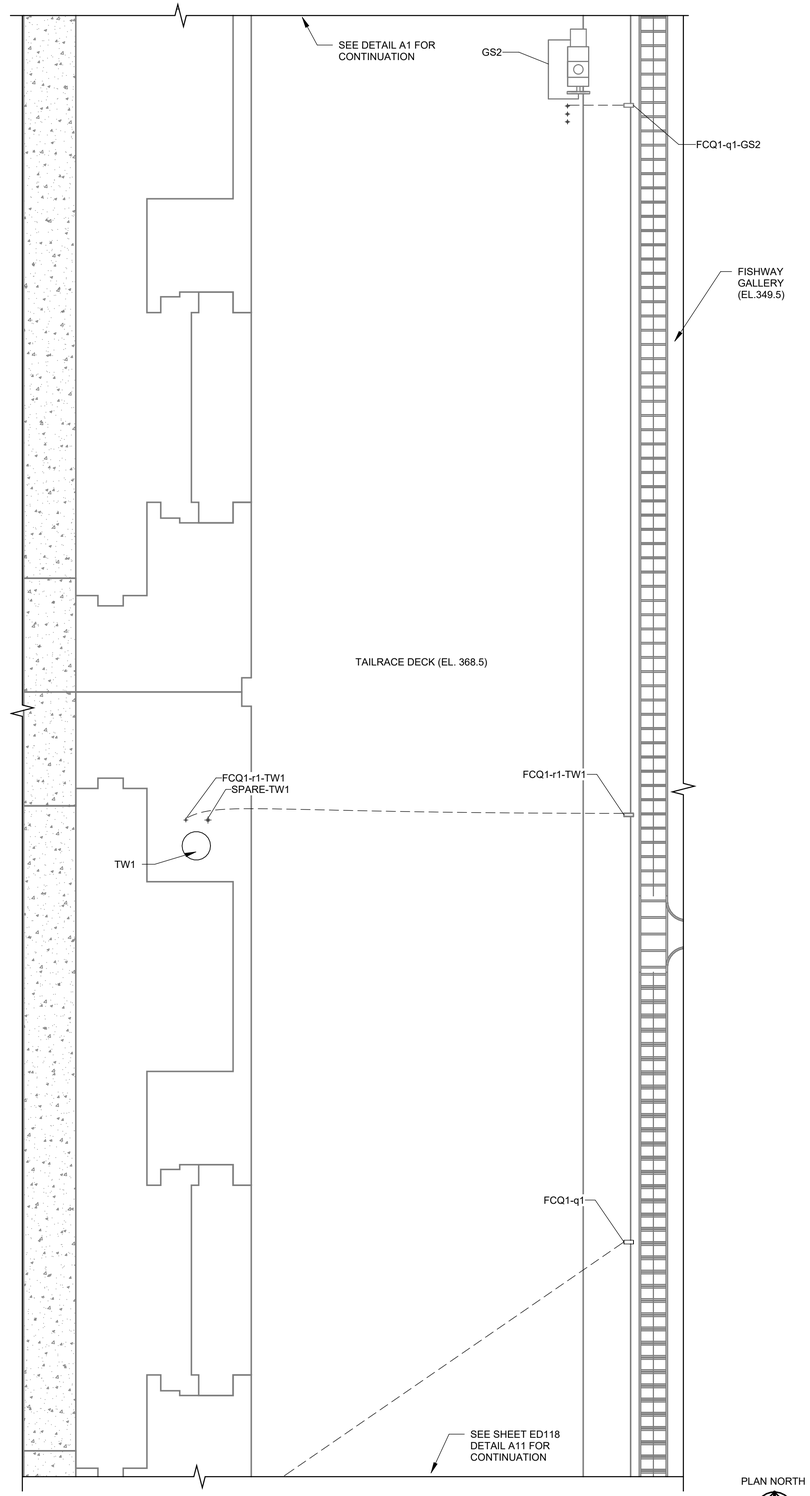
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INTERIM



A1 DEMOLITION - TAILRACE DECK BAY 2

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



A9 DEMOLITION - TAILRACE DECK BAY 1

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

LEGEND

- EXISTING
- DEMOLITION
- EMBEDDED CONDUIT

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INTERIM REVIEW

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SUBMITTED BY: LEVI VAN STEDUM, PE	
SIZE: ANSI D	FILE NUMBER:

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

TAILRACE DECK BAYS 1 & 2 DEMOLITION

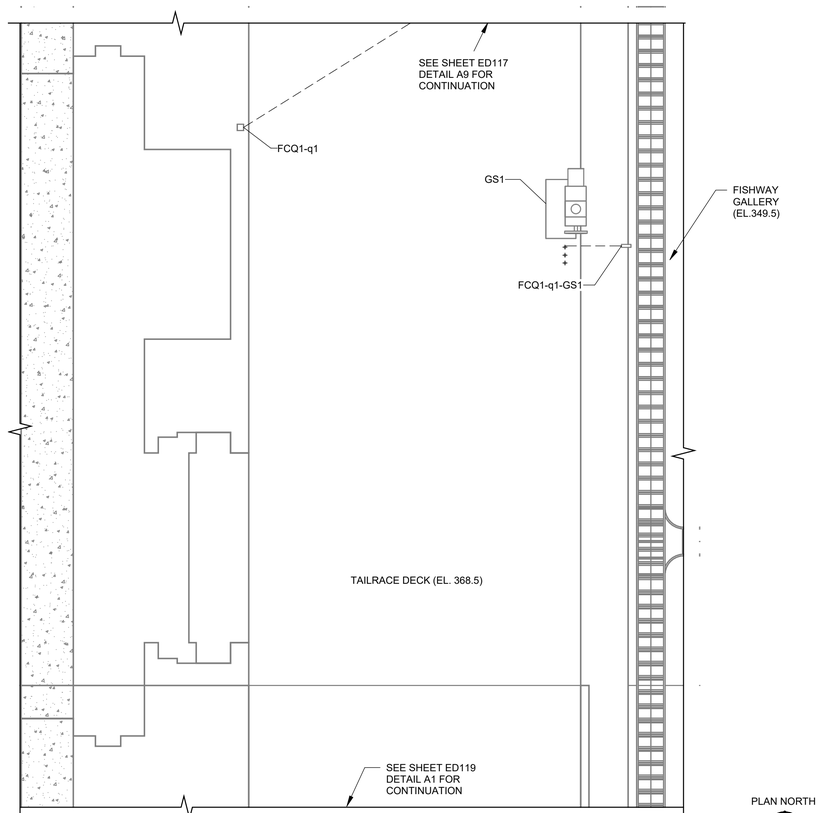
SHEET ID

ED117

INTERIM

LEGEND

- EXISTING
- DEMOLITION
- EMBEDDED CONDUIT



A11 DEMOLITION - TAILRACE DECK BAY

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

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SIZE: D
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CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
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WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

TAILRACE DECK BAY 1 DEMOLITION

SHEET ID

ED118

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INTERIM

GENERAL NOTES

1. MODEL IS NOT COMPLETE AS OF INITIAL DESIGN. ALSO, AS-BUILDING REQUIRED TO VERIFY CONDUIT ROUTING AND CIRCUITS.

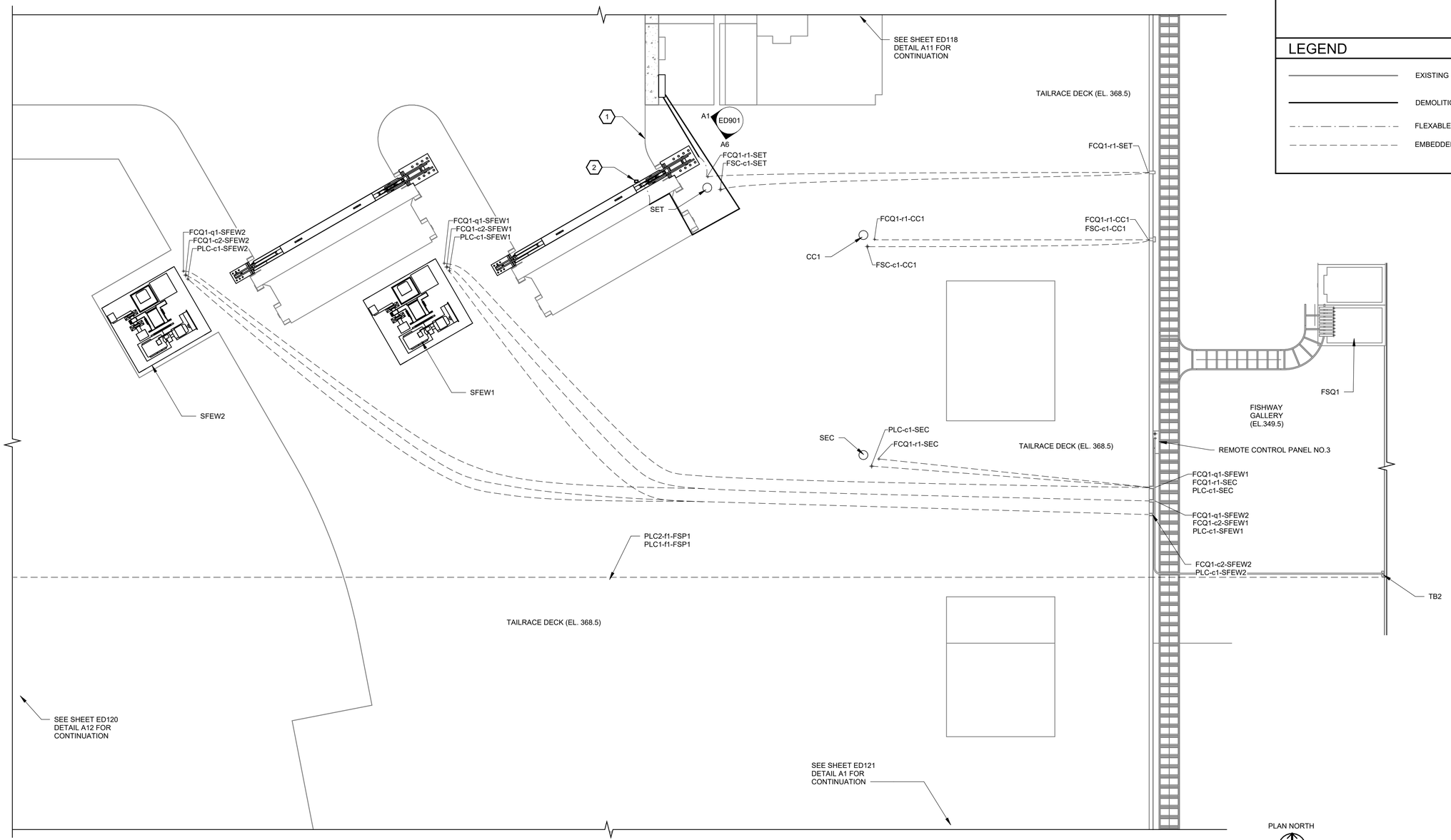
KEY NOTES

1. ABANDONED AIR-RANGER. WAS USED WITH ULTRASONIC SENSORS. DEMOLISH ALL ASSOCIATED WIRING AND EQUIPMENT.

2. ULTRA SONIC SENSOR. TO BE DEMOLISHED AND HANDED OFF THE THE PROJECT.

LEGEND

- EXISTING
- DEMOLITION
- FLEXABLE CONDUIT
- EMBEDDED CONDUIT



A3 ED102 A1 DEMOLITION - SOUTH FISHWAY ENTRANCE PLAN VIEW

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

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INTERIM REVIEW 06/03/2026

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CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
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ISSUE DATE: MM/MM/MMMM YYYY
SOLICITATION NO.: W912EF##X#####
CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISHWAY ENTRANCE DEMOLITION

SHEET ID

ED119

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INTERIM

GENERAL NOTES

1. FIBER IS BEING ROUTED FROM THE CENTRAL CONTROL PLC TO THE FISH PUMP HOUSE TO THE SOUTH CONTROL PLC TO THE CONTROL ROOM. ALL ROUTING LEAVING THE POWER HOUSE IS EMBEDDED CONDUIT UNTIL THE PUMP HOUSE.

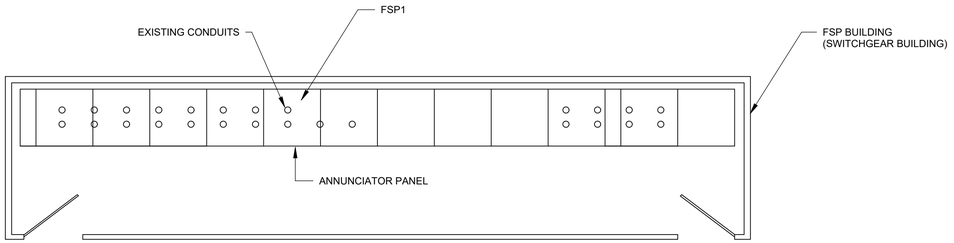
2. FSP1 ARRANGMENT SHOWN IS FOR GUIDANCE ONLY. ACTUAL CONDITIONS WILL REQUIRE FIELD VERIFICATION.

KEY NOTES

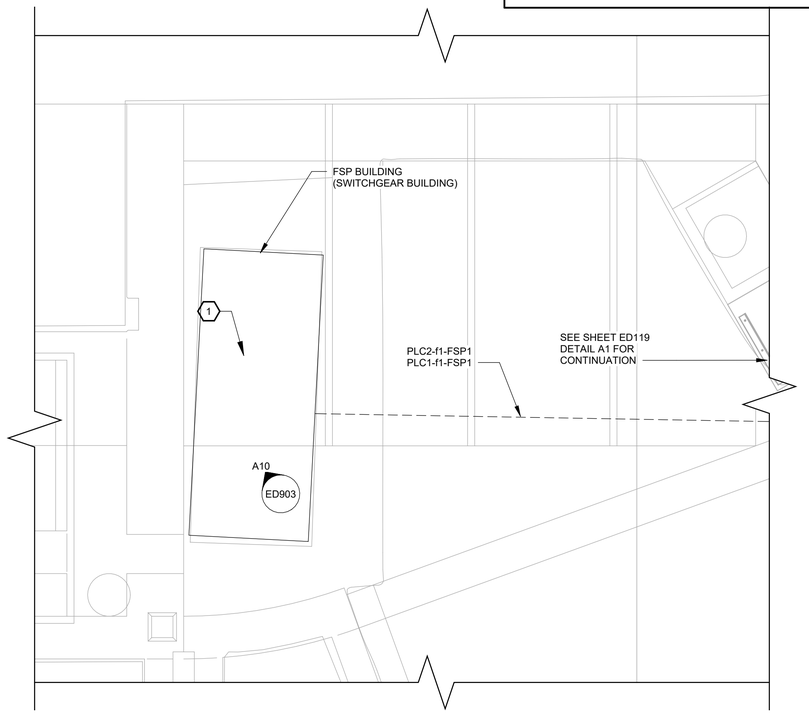
1. FSP FISHPUMP HOUSE WHERE FIBER IS ROUTED.

LEGEND

- EXISTING
- DEMOLITION
- EMBEDDED CONDUIT



A1 SOUTH SHORE FSP SWITCHGEAR BUILDING PLAN DETAIL VIEW
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



PLAN NORTH

A12 DEMOLITION - FISH PUMP HOUSE
SCALE: 3/16" = 1'-0"
0 10' 20' 40'

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INTERIM REVIEW

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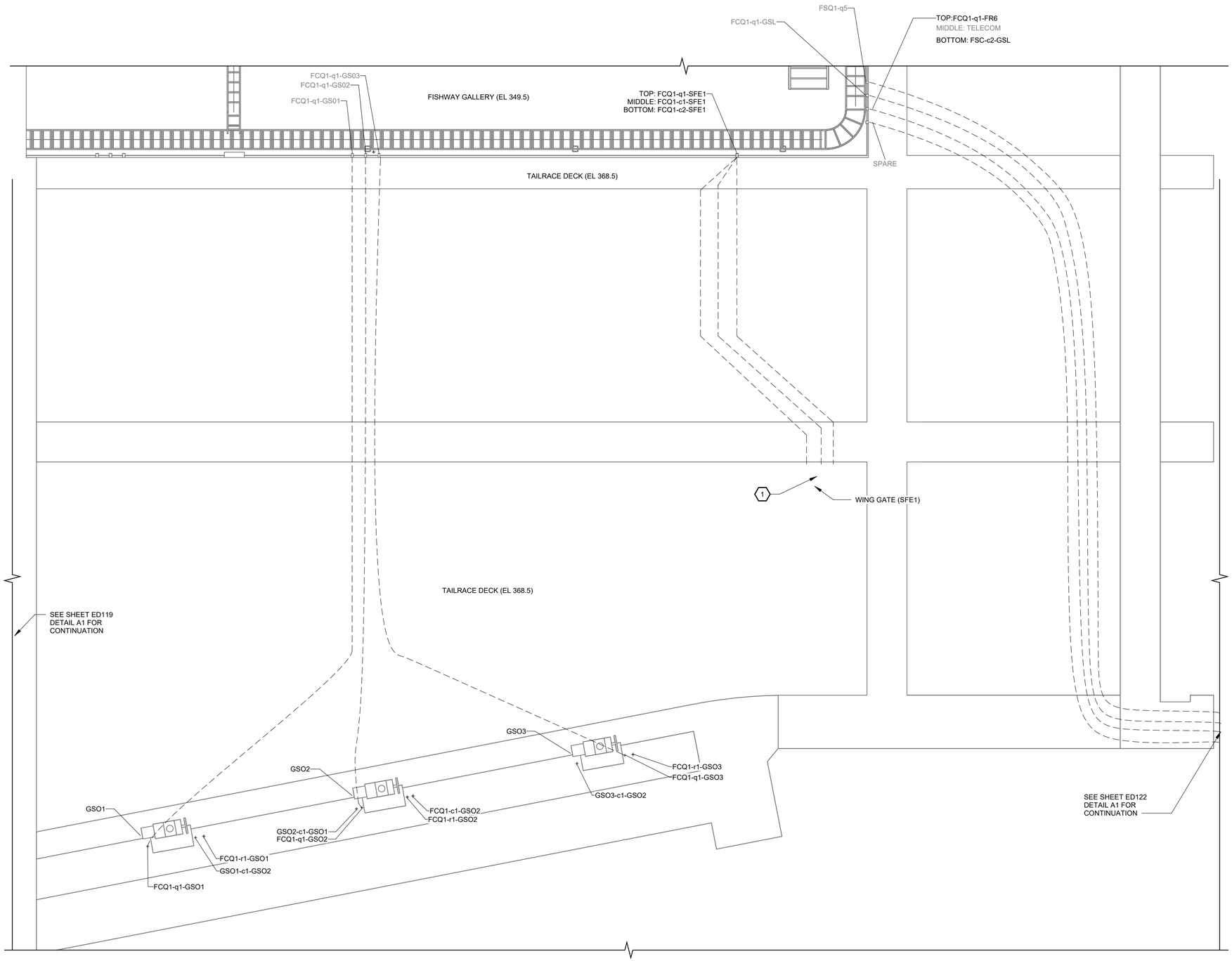
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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

FISH PUMP HOUSE FIBER ROUTING DEMOLITION

SHEET ID
ED120

INTERIM



A3
ED102

A1

DEMOLITION - TAILRACE GSO1-3

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

GENERAL NOTES

1.

KEY NOTES

1. WING GATE SFE1 IS LOCATED BELOW THE SPILLWAY DECK.

LEGEND

- EXISTING
- DEMOLITION
- EMBEDDED CONDUIT

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INTERIM REVIEW

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH TAILRACE DECK DEMOLITION

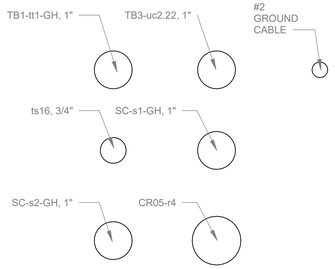
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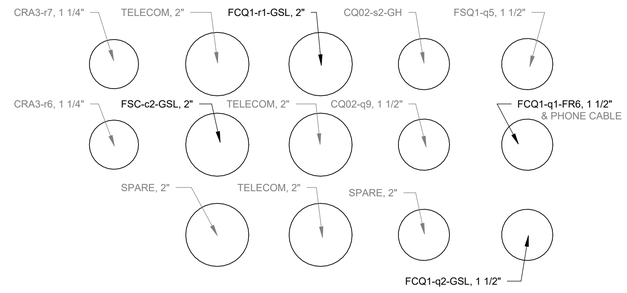
ED121

INTERIM

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K8 CABLE PIT TRANSITION TO EMBEDDED CONDUIT DETAIL

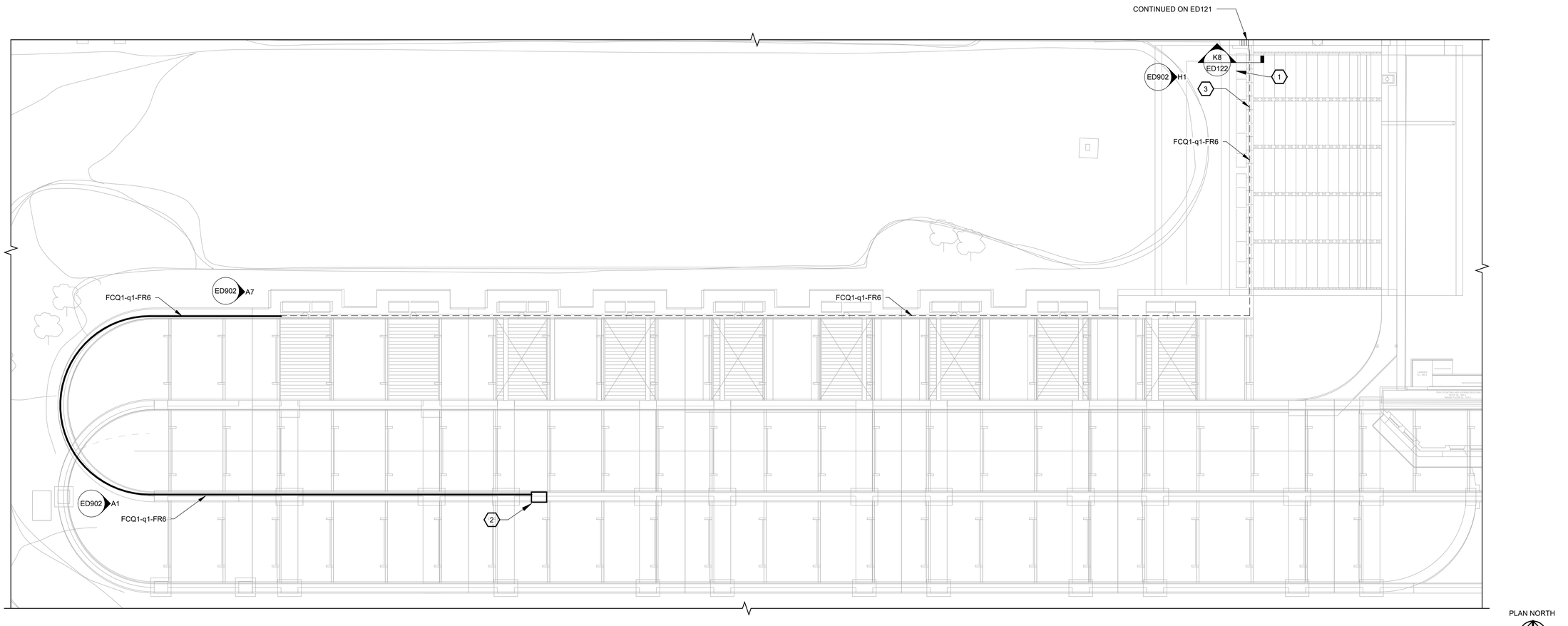
SCALE: NTS

GENERAL NOTES

1. GSL IS ABANDONED, DEMOLISH ALL RELATED CABLE AND EQUIPMENT.
2. 3 CONDUITS COME FROM THE POWERHOUSE AND INTO THE CONDUIT PIT THAT SNAKES AROUND THE FISH LADDER. DEMOLISH UP TO THE FIRST POINT OF DEMARCATION AS INDICATED.
3. EXACT LOCATION OF EACH EQUIPMENT IS ESTIMATED. CONTRACTOR TO VERIFY.

KEY NOTES

1. ONE OF THREE CONDUITS END AT THIS JUNCTION BOX.
2. FR6 HAS A DISCONNECT. DEMOLISH ALL CABLE UP UNTIL THIS DISCONNECT.
3. FCQ1-q1-FR6 IS ROUTED THROUGH THE CABLE PIT.



A1 DEMOLITION - GSL ROUTING

SCALE: 1/16" = 1'-0"

A1 ED101

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
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DRAWN BY: E. HEDINE
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SUBMITTED BY: LEVI VAN STEDUM, PE
SIGNED: ANSI D
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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISH LADDER DEMOLITION

SHEET ID

ED122

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INTERIM

GENERAL NOTES

1. CURRENT NAMING CONVENTION IS ENTRANCE WEIR (EW). NEW NAMING CONVENTION WILL BE NORTH ENTRANCE WEIR (NEW) FOR INSTALL.

KEY NOTES

1. REMOVE ALL CABLES UNTIL THE FIRST POINT OF DEMARCATION AS IDENTIFIED. ALL CABLES PAST THIS POINT ARE TO REMAIN IN PLACE.

2. ULTRA SONIC SENSOR, TO BE DEMOLISHED AND HANDED OFF TO THE PROJECT.

3. DEMOLISH ALL ABANDONED IN PLACE CONDUCTORS.

LEGEND

EXISTING

DEMOLITION

FLEXABLE CONDUIT

RECEPTACLE

FCQ4-c1-JB12
FCQ4-c2-JB12
FCQ4-s1-JB12
JB12
JB6-c1-EW1
JB6-c2-EW1
JB6-q1-EW1
JB6
JB6-c1-FW3
EW1
G6
ED901
METRITAPE
JB6-c1-FW4
UNWATERING PUMP #7
FCQ4-c1-JB6
JB5-c1-JB6
JB5-q1-JB6
JB5-q1.3
JB5
JB5-q1-D1.5
DIFFUSER PUMP 5
JB4-c1-JB5
JB4-q1-JB5
FCQ4-c1-JB5
JB4
JB4-q1-D1.4
DIFFUSER PUMP 4
JB3-c1-JB4
JB3-c2-JB4
JB3-q1-JB4
JB3
JB3-q1-D1.3
DIFFUSER PUMP 3
JB2-c2-JB3
JB2-c1-JB3
JB2-q1-JB3

SEE SHEET ED124
DETAIL A1 FOR
CONTINUATION

ED901
G1
OLD JB7 NOW ABANDONED
ABANDONED CONDUCTORS
TOP TO BOTTOM:
#2/0 GROUND
FCQ4-c1-JB7
FCQ4-c2-JB7
FCQ4-q1-JB7
JB7
EW2

PLAN NORTH

0 2' 4' 8'

A3 DEMOLITION - NORTH FISHWAY ENTRANCE PLAN VIEW
SCALE: 1/4" = 1'-0"

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INTERIM REVIEW

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SUBMITTED BY: LEVI VAN STEDUM, PE
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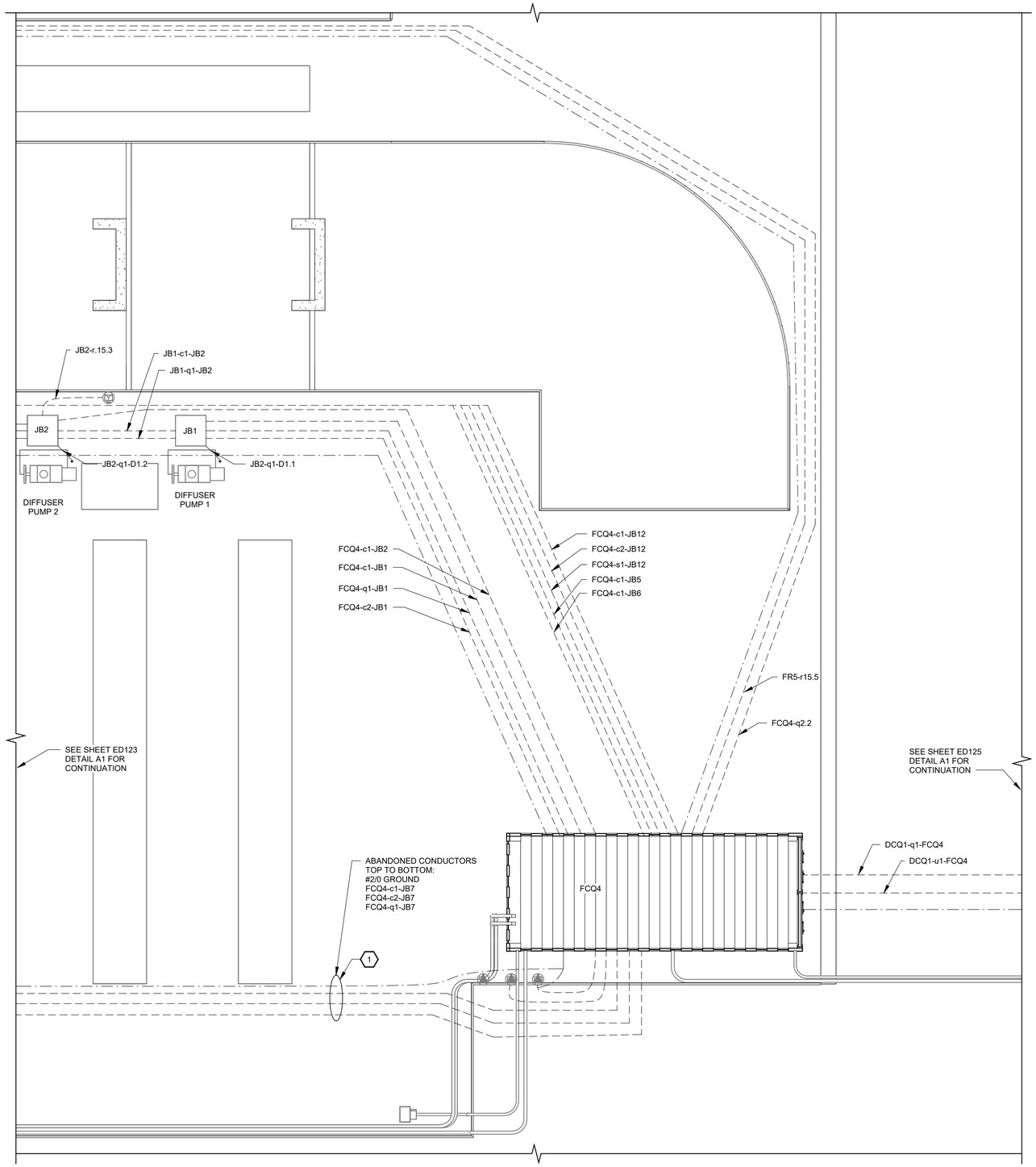
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

NORTH FISHWAY ENTRANCE DEMOLITION

SHEET ID

ED123

INTERIM



A1 DEMOLITION - NORTH FISHWAY ENTRANCE PLAN VIEW

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

GENERAL NOTES

1. NOTE TO REVIEWER: CONTROLS WITHIN FCQ

2. THE FCQ4 SHED HOUSES THE FCQ4 MCC THAT POWERS AND CONTROLS THE NORTH FISHWAY ENTRANCE WEIRS AND ALL THE EQUIPMENT AROUND IT. IT SHALL BE DEMOLISHED AND REPLACED WITH A NEW NEMA 4X ENCLOSURE.

KEY NOTES

1. DEMOLISH ALL ABANDONED IN PLACE CONDUCTORS.

LEGEND

- EXISTING
- DEMOLITION
- EMBEDDED CONDUIT
- #2/0 GROUND
- 120VAC OUTDOOR RECEPTACLE

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

NORTH FISHWAY ENTRANCE DEMOLITION

SHEET ID

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GENERAL NOTES

1.WALL ROUTING TO BE VERIFIED IN PLAN IN HAND.

KEY NOTES

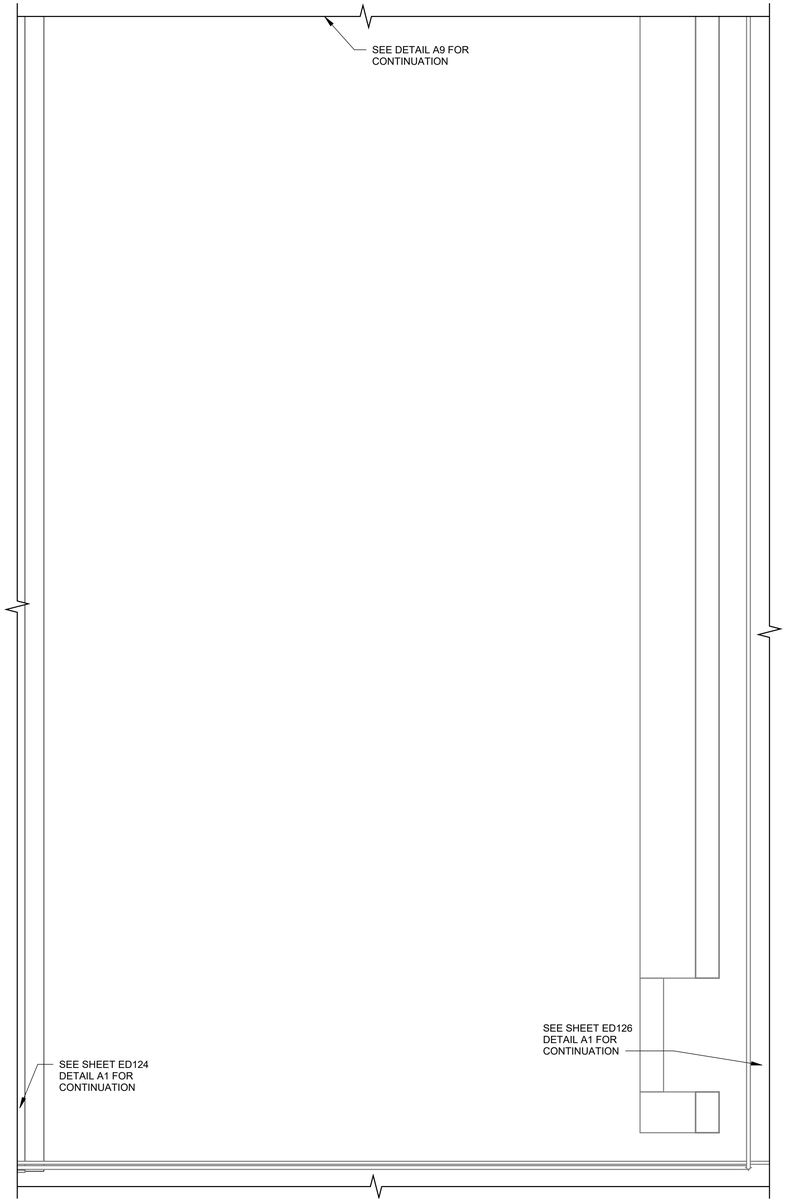
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LEGEND

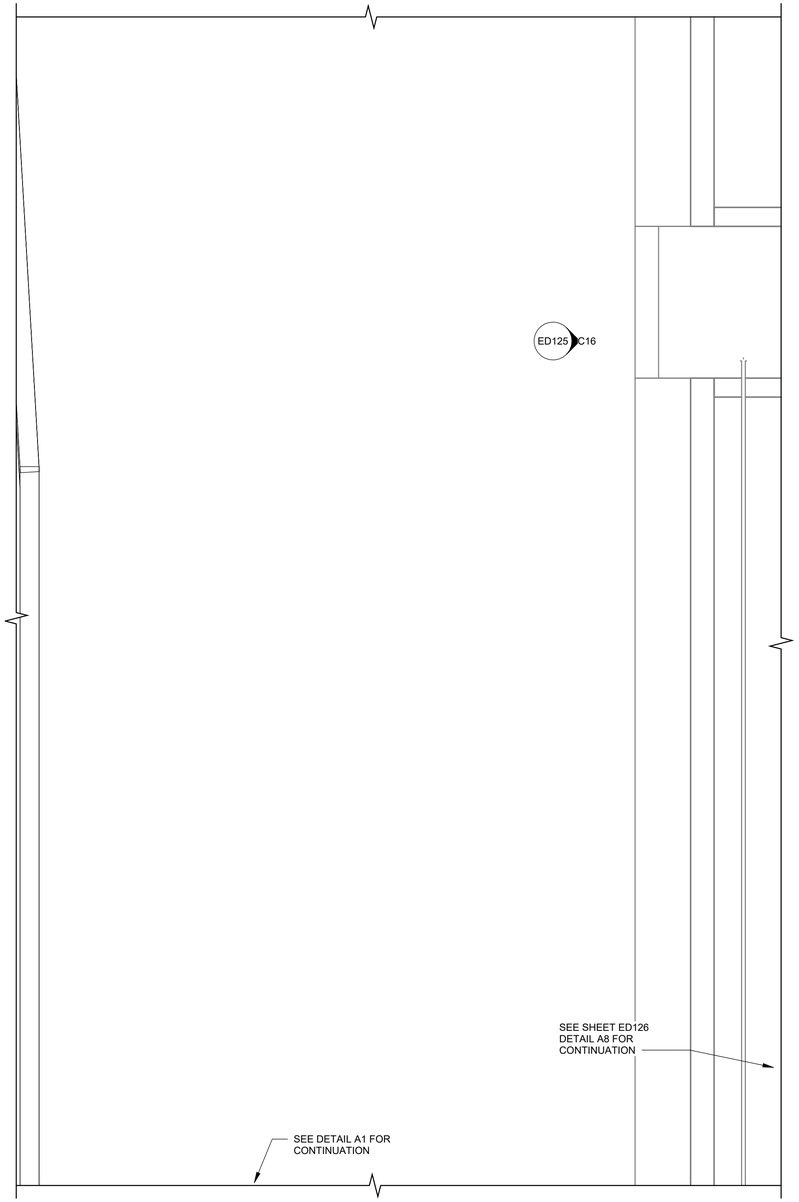
EXISTING

DEMOLITION

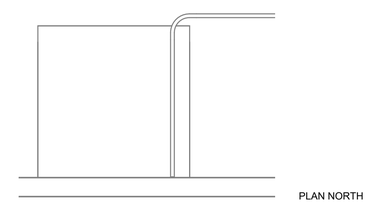
FLEXABLE CONDUIT



A1 DEMOLITION - NORTH FISHWAY ENTRANCE WALL ROUTING
SCALE: 1/4" = 1'-0"



A9 DEMOLITION - NORTH FISHWAY ENTRANCE WALL ROUTING CONT.
SCALE: 1/4" = 1'-0"



C16 WALL ROUTING
SCALE: 1/4" = 1'-0"

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

NORTH FISHWAY ENTRANCE WALL ROUTING
DEMOLITION

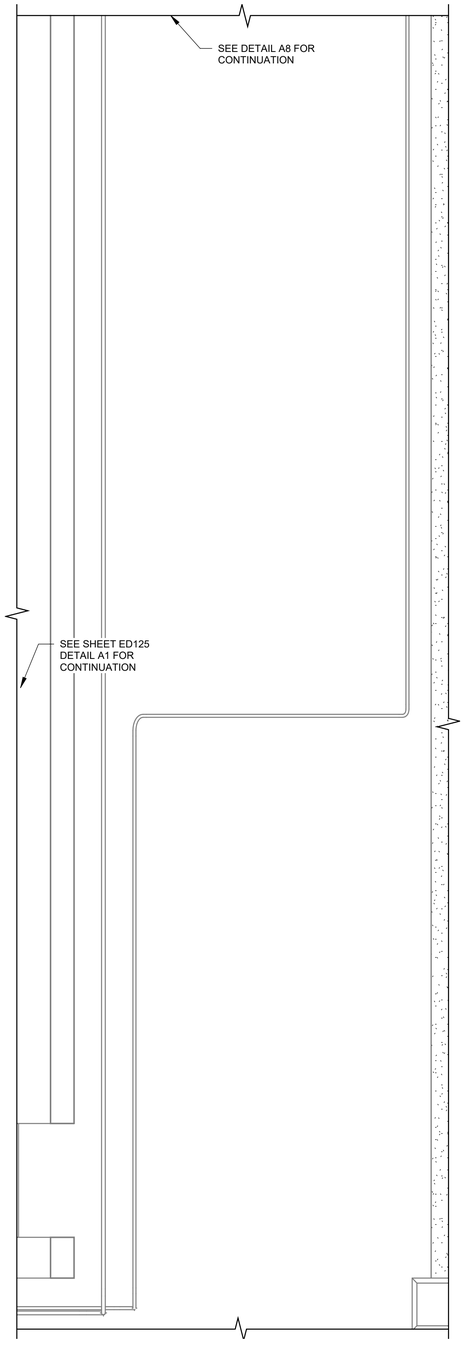
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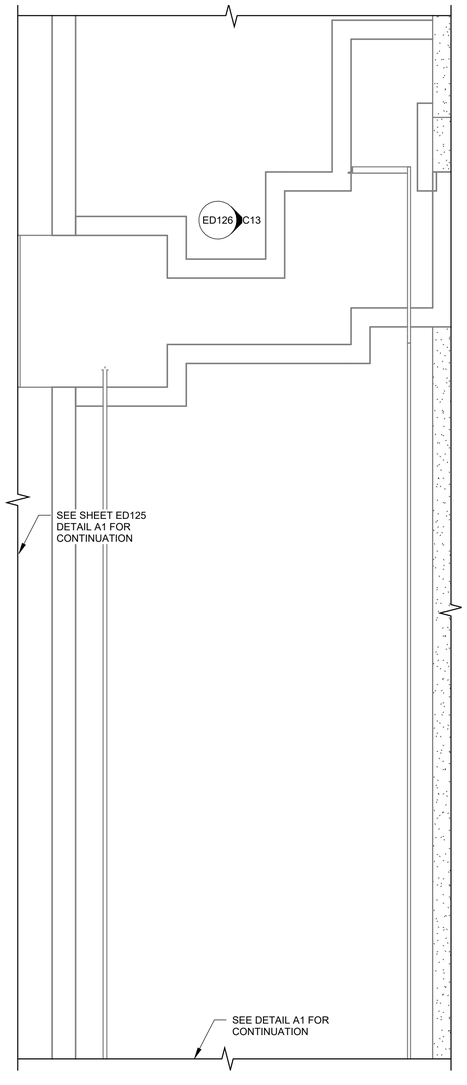
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A1 DEMOLITION - NORTH ENTRANCE FIBER ROUTING
SCALE: 1/4" = 1'-0"

PLAN NORTH

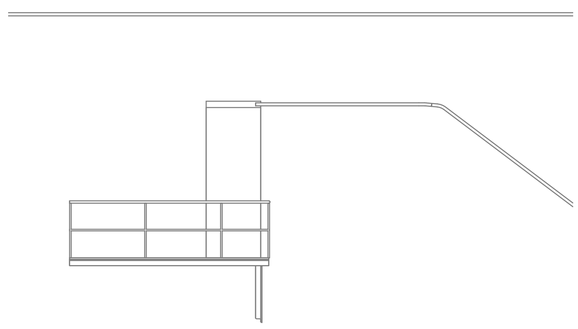
0 2' 4' 8'



A8 DEMOLITION - NORTH ENTRANCE FIBER ROUTING CONT.
SCALE: 1/4" = 1'-0"

PLAN NORTH

0 2' 4' 8'



C13 FIBER ROUTING ELEVATION VIEW
SCALE: 1/4" = 1'-0"

PLAN NORTH

0 2' 4' 8'

GENERAL NOTES

1.WALL ROUTING TO BE VERIFIED IN PLAN IN HAND.

KEY NOTES

1.

LEGEND

EXISTING

DEMOLITION

FLEXABLE CONDUIT

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

NORTH FISHWAY ENTRANCE FIBER ROUTING
DEMOLITION

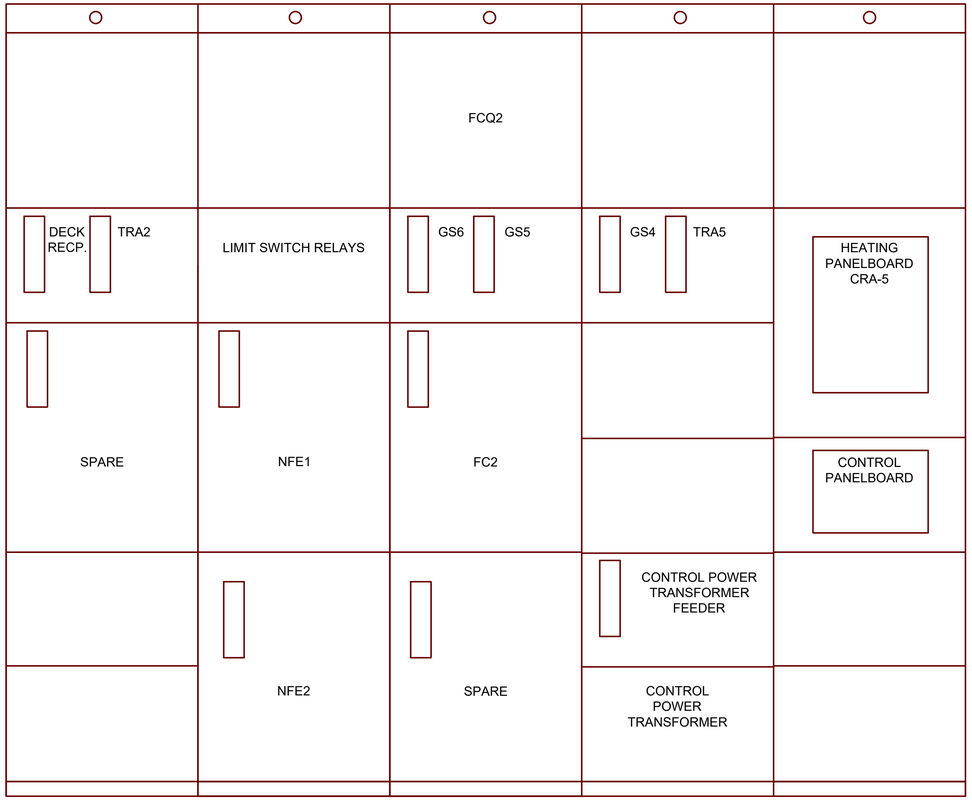
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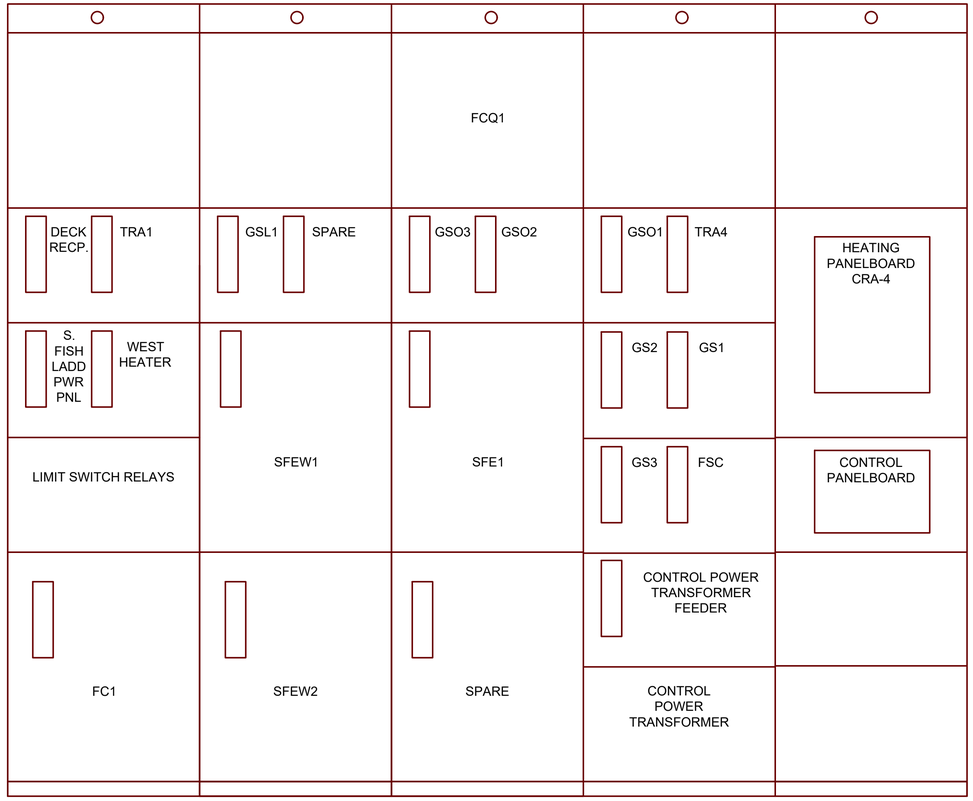
INTERIM

GENERAL NOTES

1. BOTH FCQ1 AND FCQ2 ARE BEING COMPLETELY DEMOLISHED. SEE PLAN SHEETS FOR EXACT LOCATION.



A1 FCQ2
SCALE: NTS



A11 FCQ1
SCALE: NTS

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SUBMITTED BY:	
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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

FCQ1 AND FCQ2 ELEVATION VIEWS

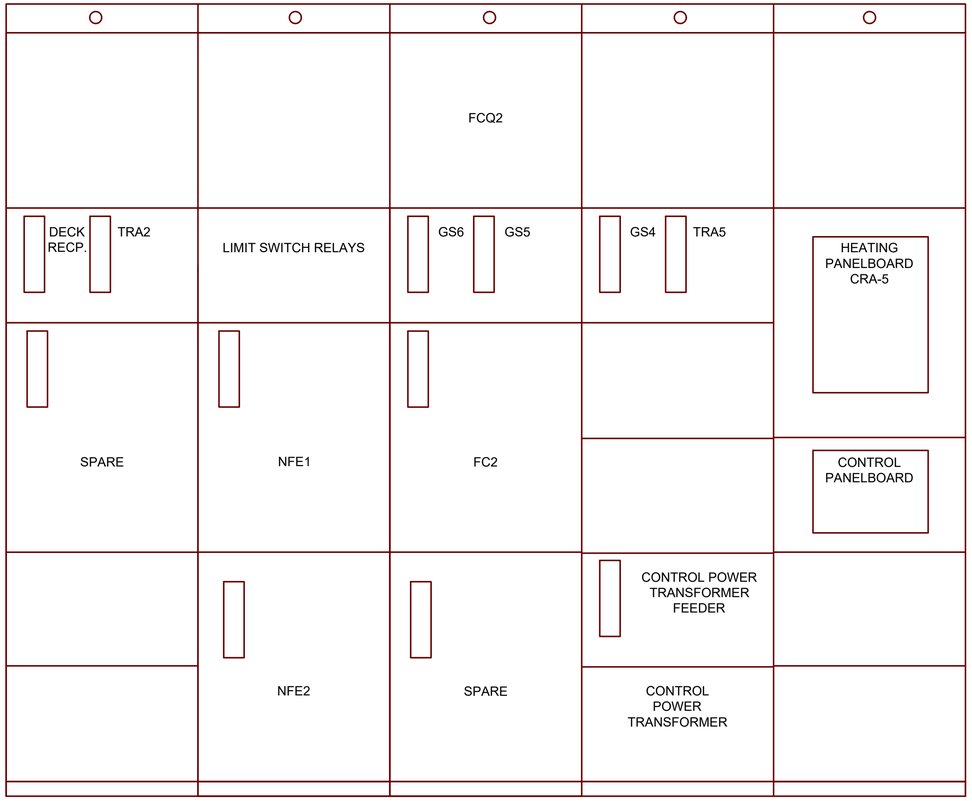
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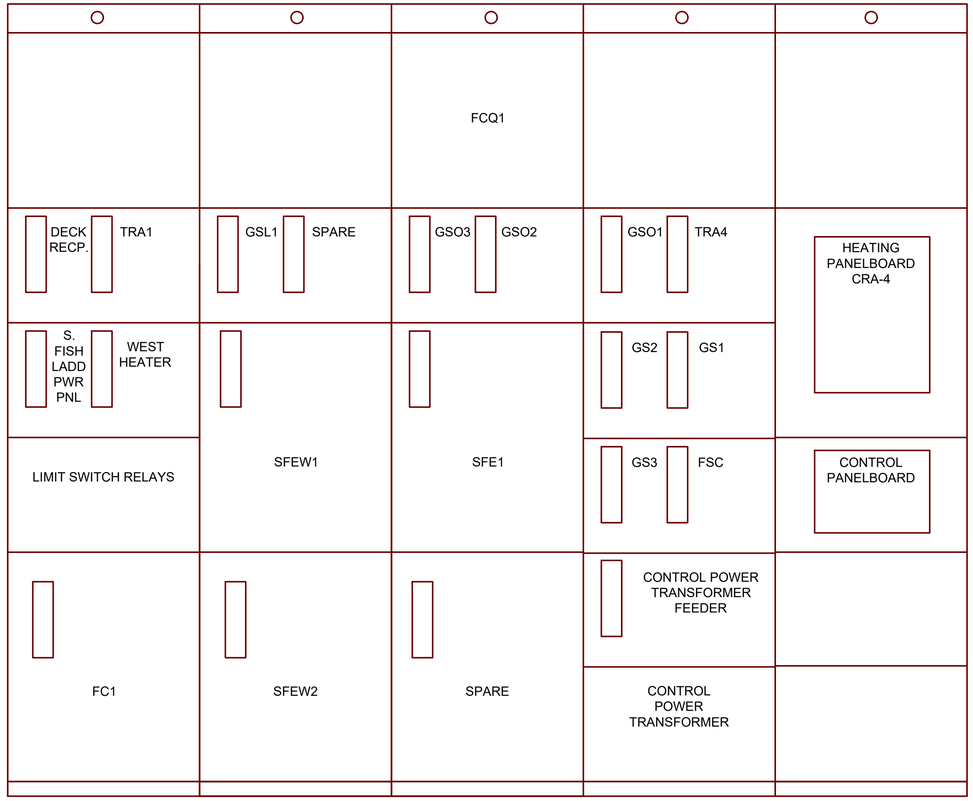
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GENERAL NOTES

1. BOTH FCQ1 AND FCQ2 ARE BEING COMPLETELY DEMOLISHED. SEE PLAN SHEETS FOR EXACT LOCATION.



A1 FCQ4 FRONT
SCALE: NTS



A11 FCQ4 REAR
SCALE: NTS

INTERIM REVIEW
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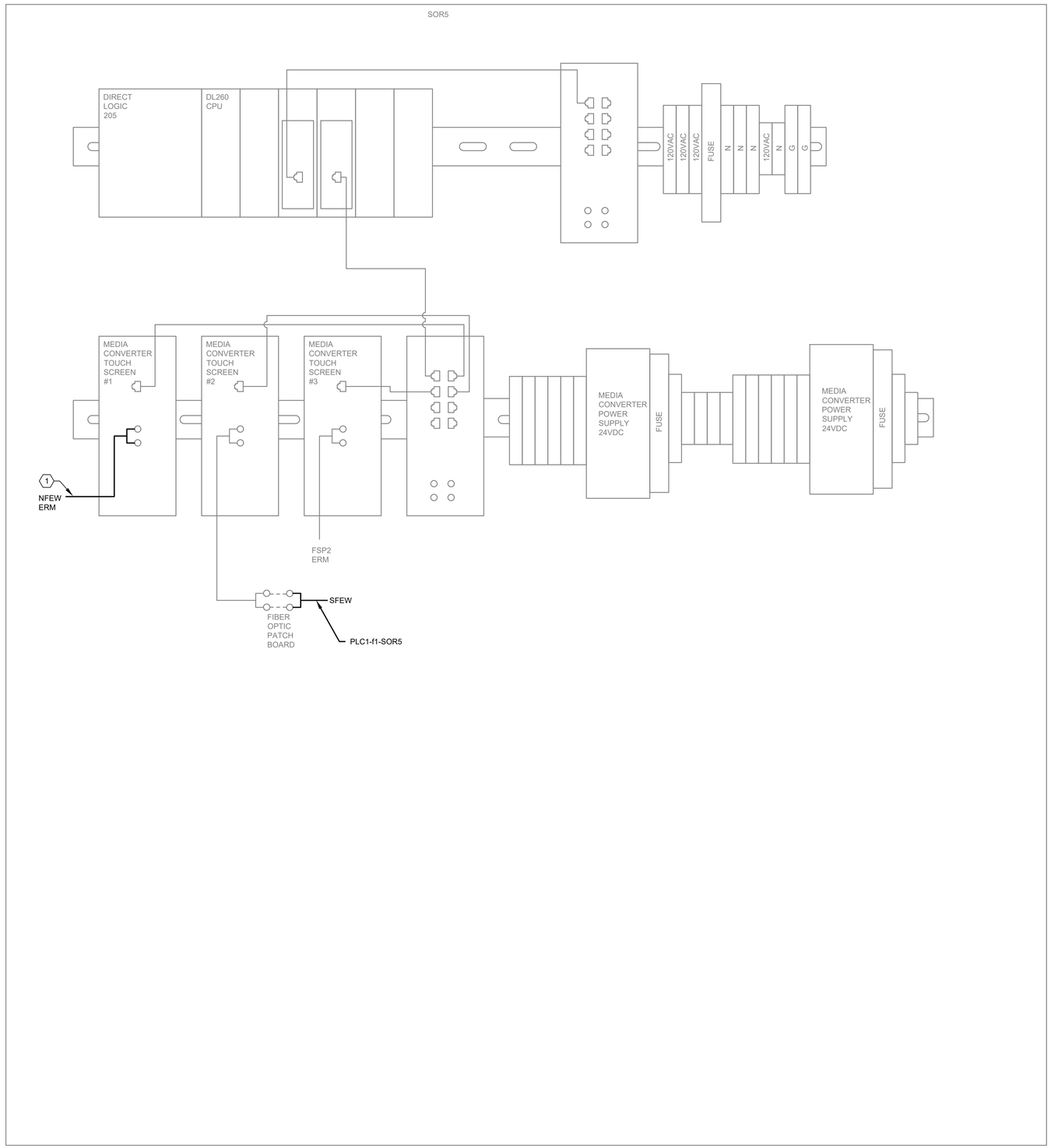
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

FCQ4 ELEVATION VIEWS

SHEET ID
ED202

INTERIM

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A1 SO BOARD IN CONTROL ROOM SECTION SOR5

SCALE: NTS

GENERAL NOTES

1. THE GOVERNMENT WILL REPROGRAM EXISTING PLC. COORDINATE WITH COR ON SCHEDULE TO VERIFY THE GOVERMENT IS PREPARED TO DISCONNECT SFEW AND NFEW FIBER OPTIC CABLES.

SHEET KEYNOTES

1. RE-USE FIBER. DISCONNECT AND STORE IN SOR5. WILL BE RE-USED FOR INSTALL.

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

SO BOARD IN CONTROL ROOM

SHEET ID

ED203

INTERIM

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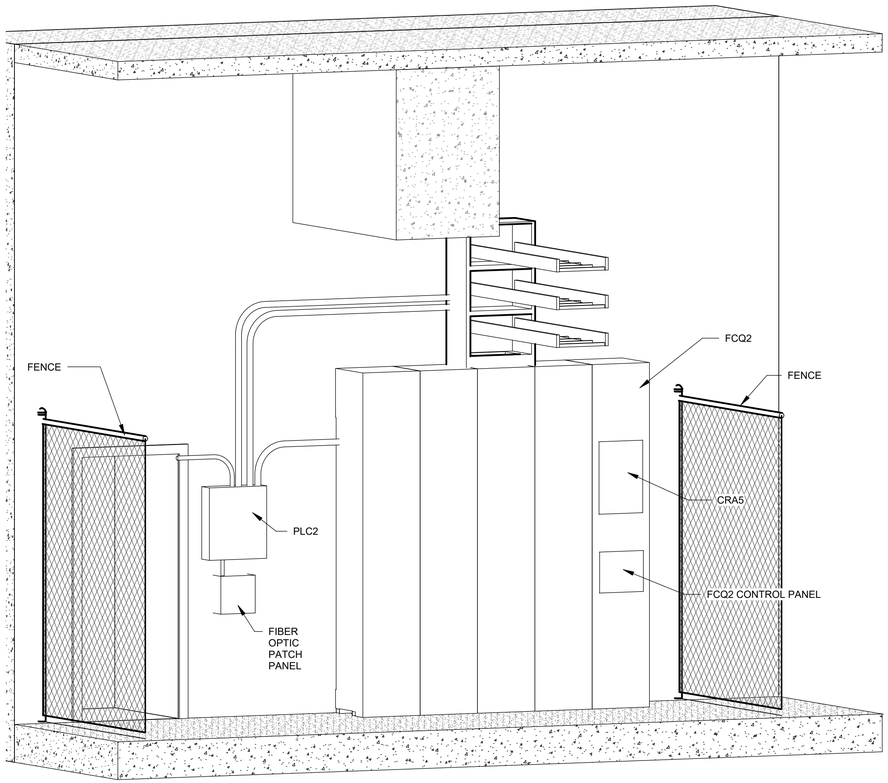
KEY NOTES

DEMOLISH CONDUIT AND CONDUTOR BACK TO DOOR WAY AND ABANDON THE REST IN PLACE. TAPE OFF CONDUCTORS MARK AS ABANDONED AND CAP OFF CONDUIT.

LEGEND

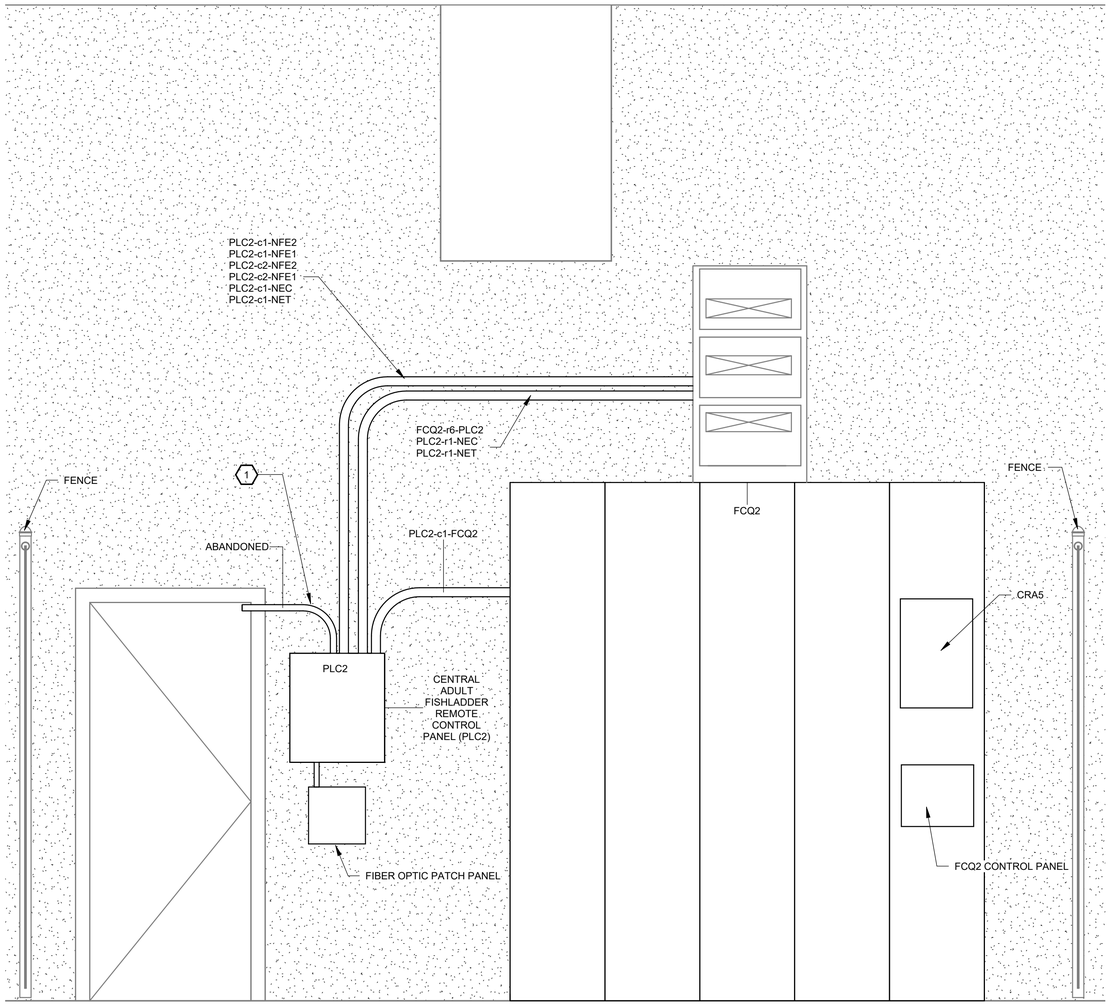
EXISTING

DEMOLITION



A1 FCQ2 DEMOLITION ISOMETRIC

SCALE:



A10 FCQ2 ELEVATON DEMOLITION (FRONT)

SCALE: 3/4" = 1'-0"

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

FISHWAY GALLERY FCQ2

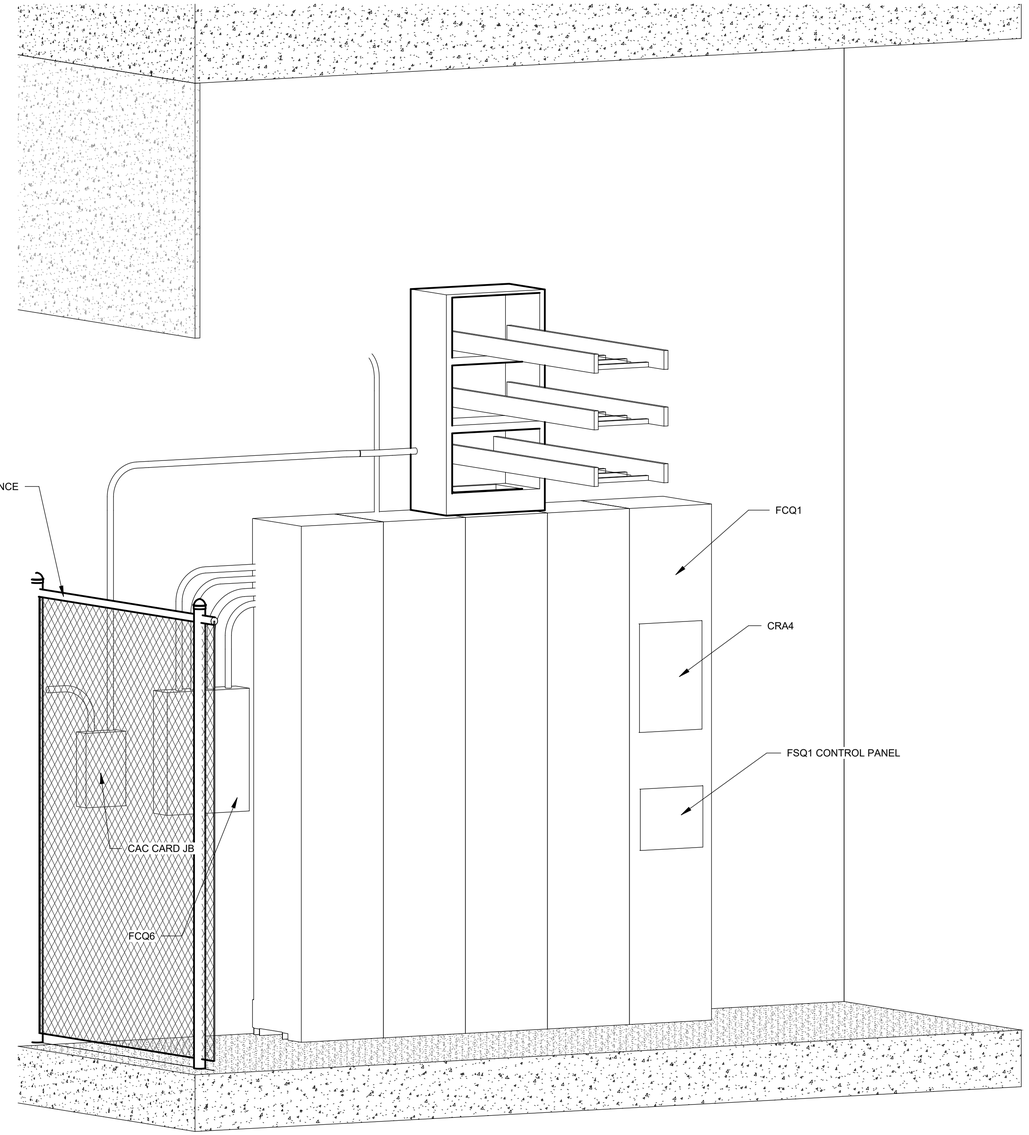
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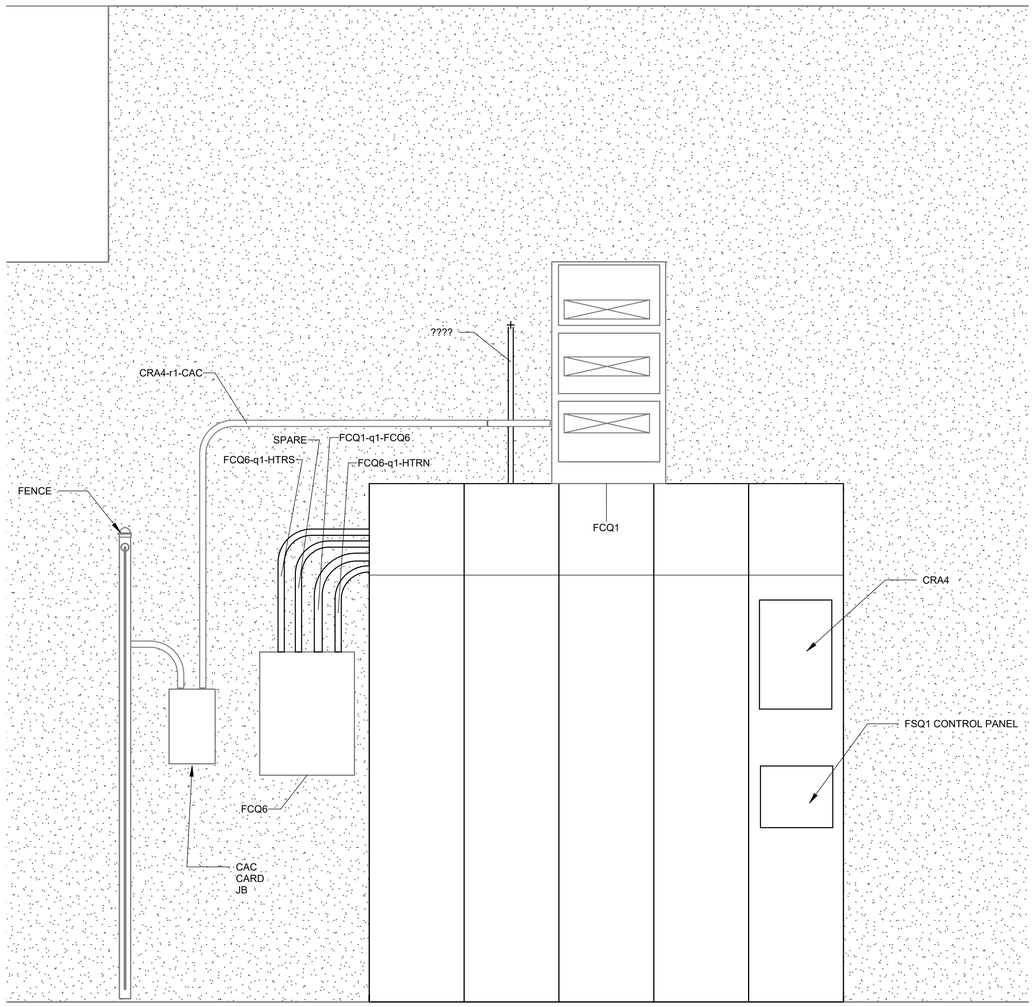
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INTERIM



A1 FCQ1 DEMOLITION ISOMETRIC
SCALE:



A11 FCQ1 ELEVATION VIEW DEMOLITION (FRONT)
SCALE: 3/4" = 1'-0"

0 0.5' 1' 2' 3'

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

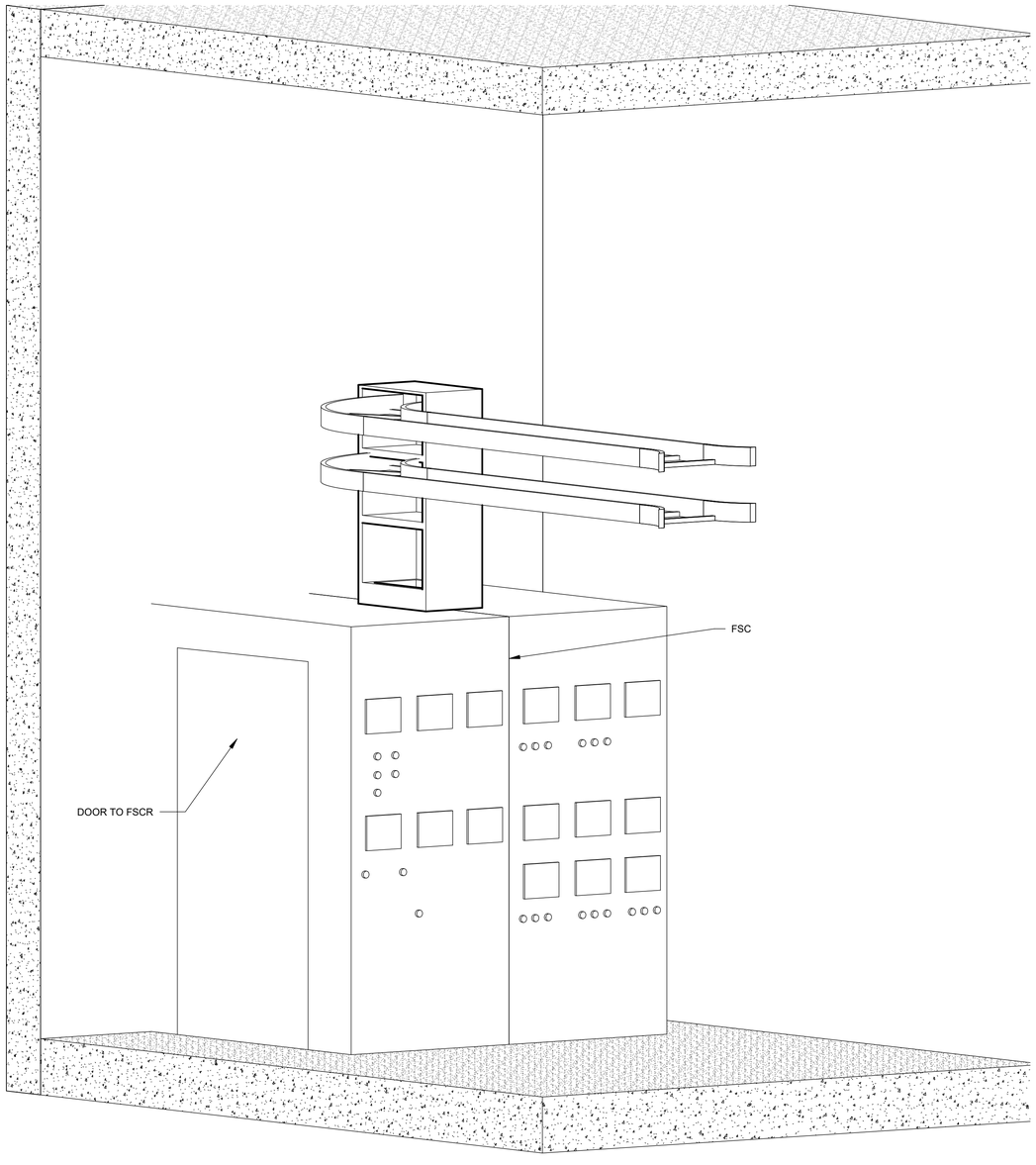
FISHWAY GALLERY FCQ1

SHEET ID
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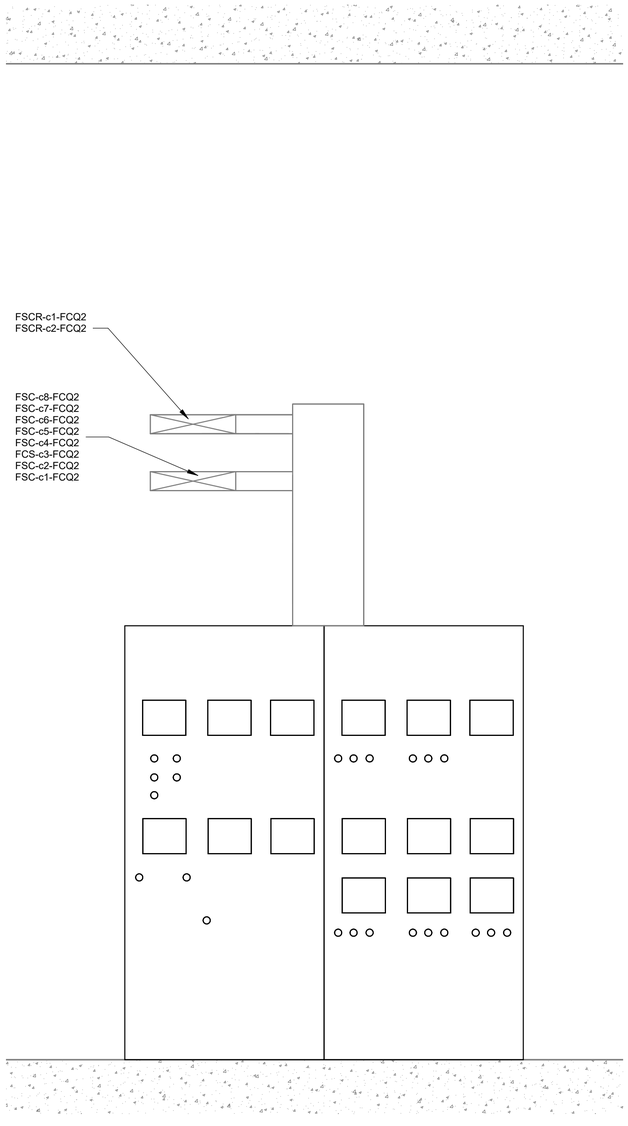
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INTERIM



A1 FSC DEMOLITION ISOMETRIC
SCALE:



A13 FSC & FSCR ELEVATION VIEW DEMO (FRONT)
SCALE: 3/4" = 1'-0"

0 0.5' 1' 2' 3'

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

FISHWAY GALLERY FSC

SHEET ID
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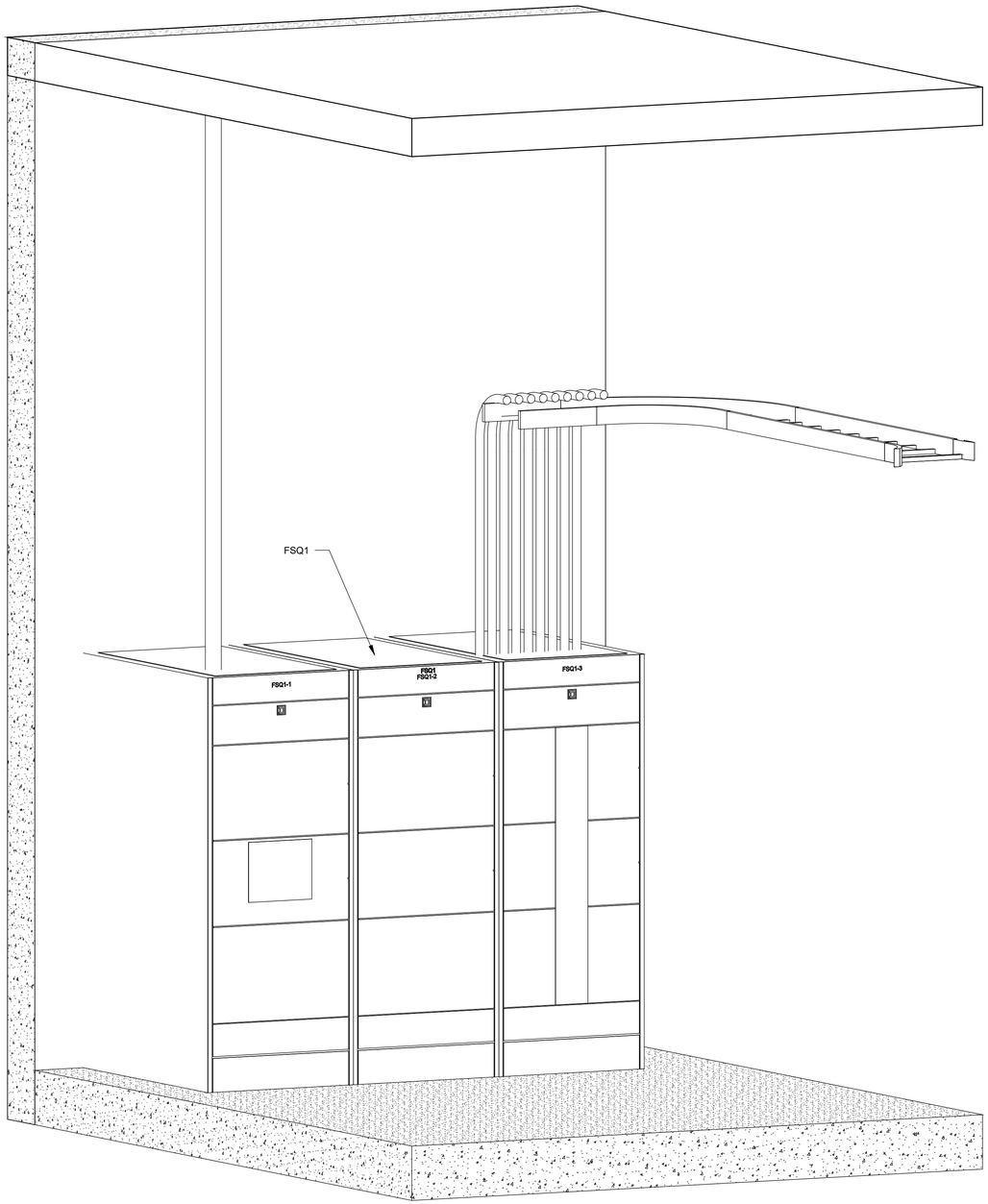
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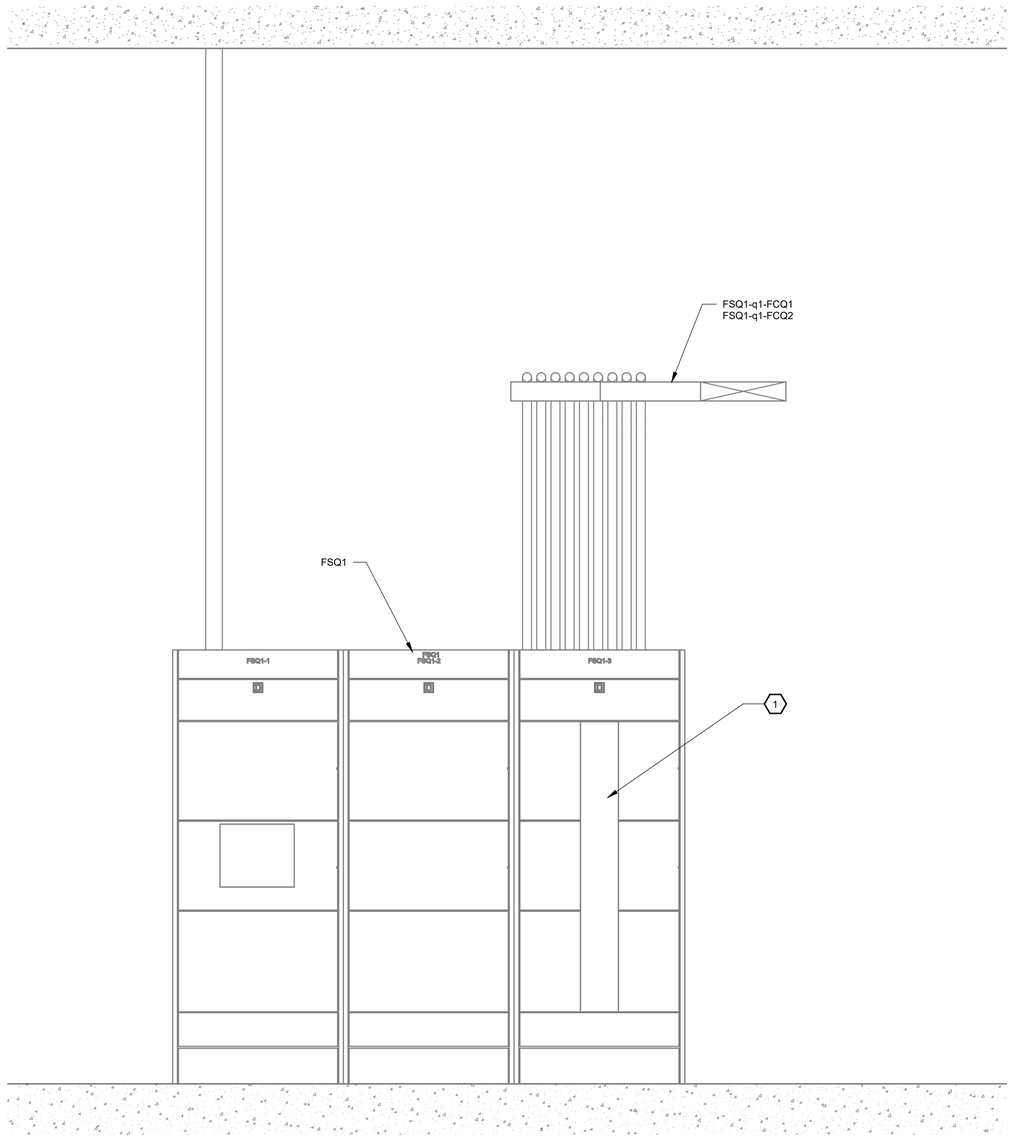
INTERIM

GENERAL NOTES

1. DEMOLISH FEEDER CONDUCTORS FOR FCQ1 AND FCQ2 ONLY. RE-USE BREAKERS AND CONDUITS.



A1 FSQ1 DEMOLITION ISOMETRIC
SCALE:



A11 FSQ1 ELEVATION DEMOLITION (FRONT)
SCALE: 3/4" = 1'-0"

0 0.5' 1' 2' 3'

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

FISHWAY GALLERY FSQ1

SHEET ID

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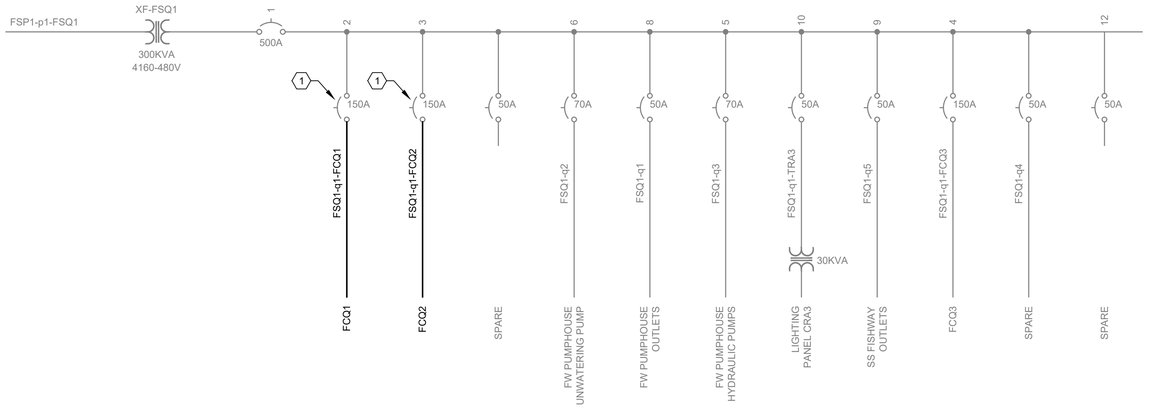
LEGEND

EXISTING

DEMOLITION

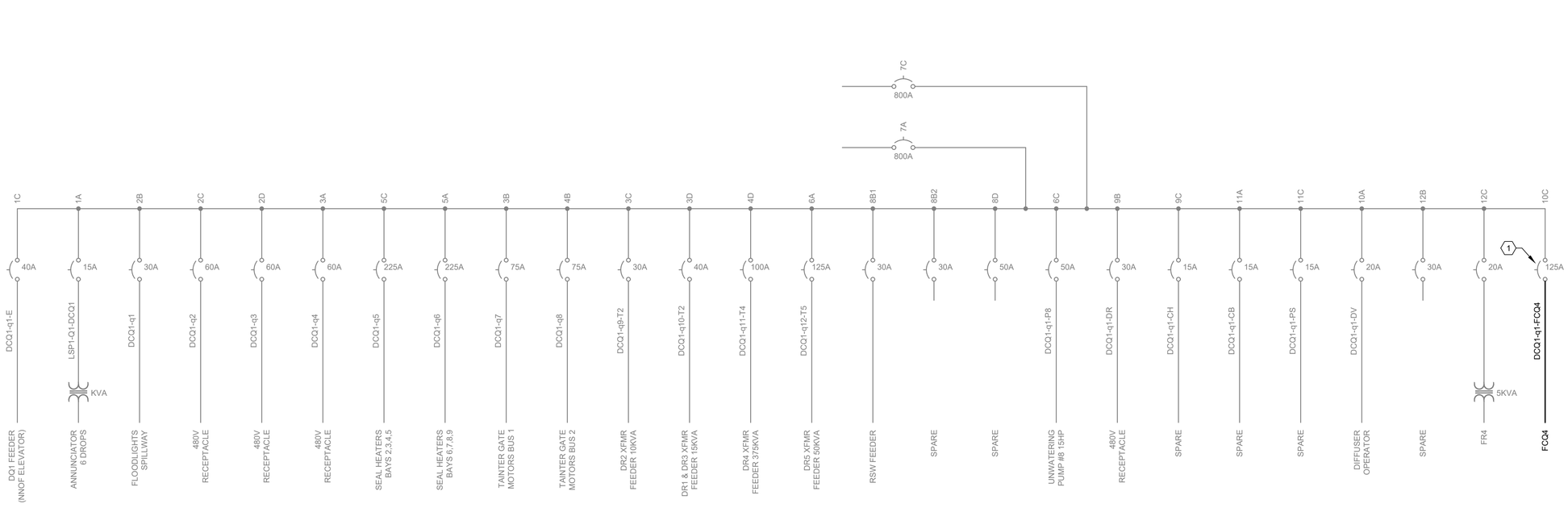
SHEET KEYNOTES

1. REUSE EXISTING BREAKERS.



J1 FSQ1 ONE LINE DIAGRAM DEMOLITION

SCALE: NTS



A1 DCQ1 ONE LINE DIAGRAM DEMOLITION

SCALE: NTS

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

DEMOLITION ONE LINE FSQ1 AND DCQ1

SHEET ID

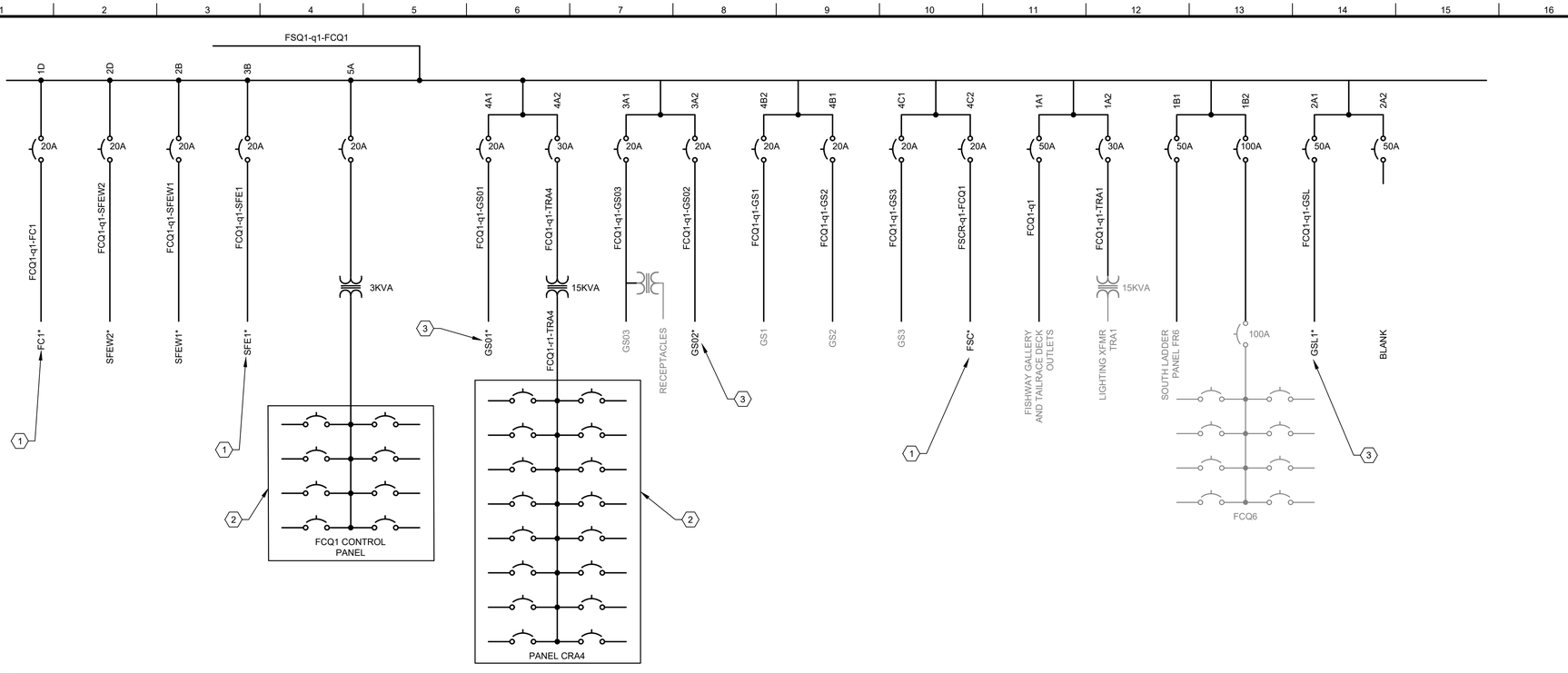
ED601

INTERIM

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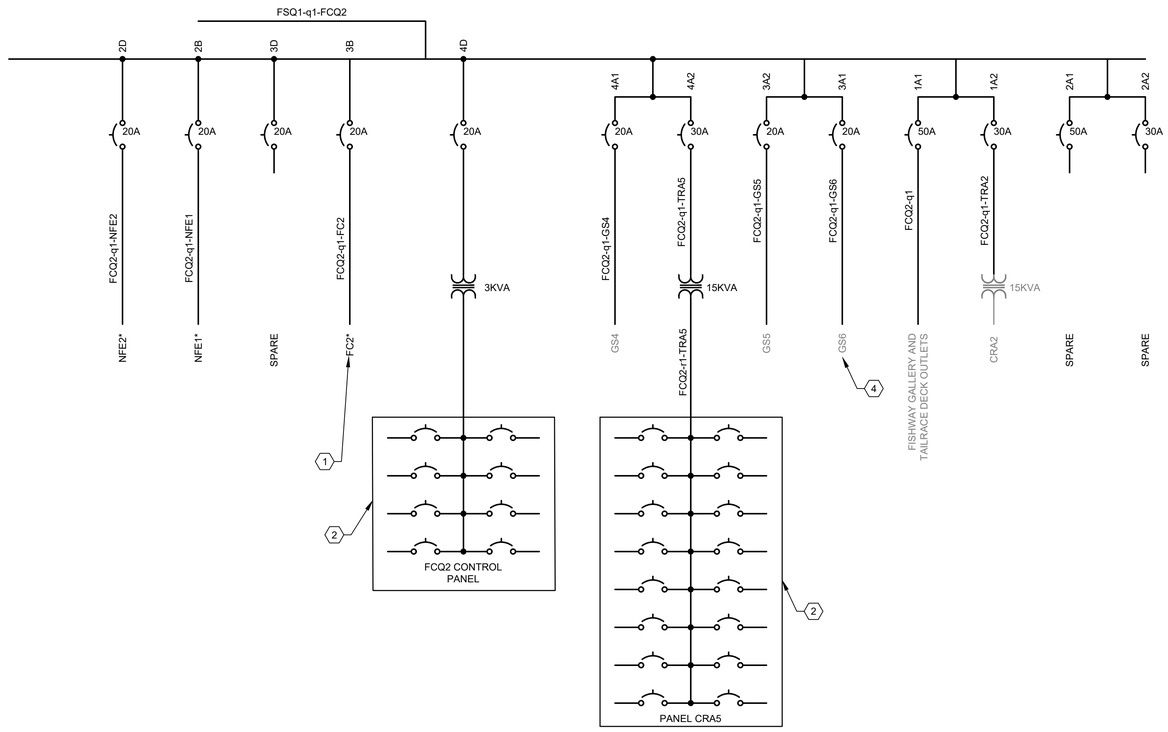
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H1 FCQ1 ONE LINE DIAGRAM DEMOLITION

SCALE: NTS



A1 FCQ2 ONE LINE DIAGRAM DEMOLITION

SCALE: NTS

GENERAL NOTES

1. DEMOLISH ALL LOADS TO THE FIRST POINT OF TERMINATION. IF A LOAD IS MARKED WITH A " * " DEMOLISH THE ENTIRE CIRCUIT.

SHEET KEYNOTES

1. DEMOLISH WING GATE CIRCUITS AND THE FISHWAY SYSTEM CONTROL PANEL (FSC).
2. SEE ED604 FOR MORE DETAIL.
3. LOAD IS RETIRED IN PLACE. DEMOLISH ALL CONDUCTORS.
4. GS6 HAS BEEN REMOVED. DEMOLISH REMAINING CIRCUIT.

LEGEND

EXISTING
DEMOLITION

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

ISSUE DATE: MMMMMMMM YYYY
SOLICITATION NO.: W912EF
CONTRACT NO.:

DESIGNED BY: E. STADNIK
DRAWN BY: E. STADNIK
CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: ANSI D
FILE NUMBER

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

DEMOLITION ONE LINE FCQ1 AND FCQ2

SHEET ID
ED602

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INTERIM

GENERAL NOTES

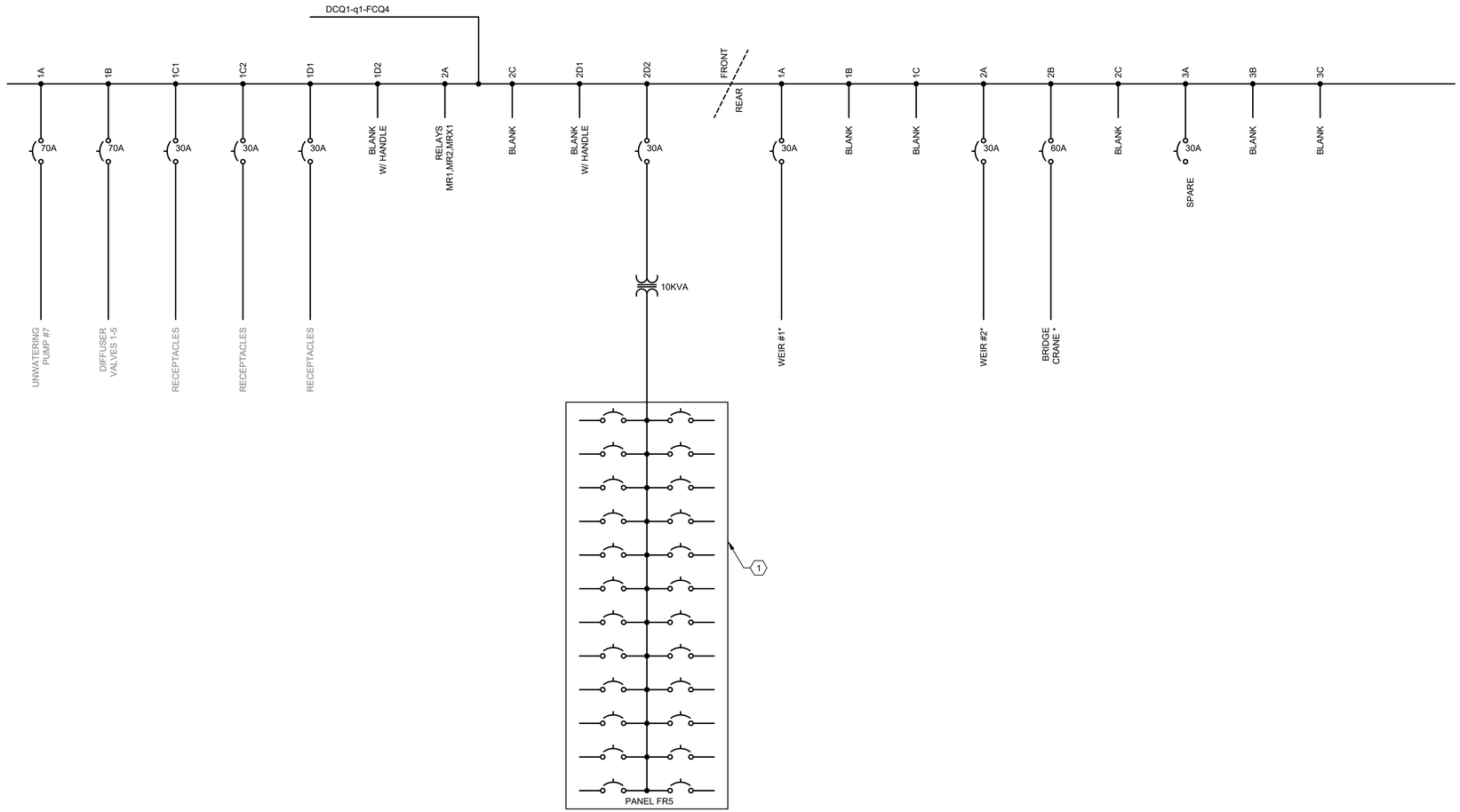
1. DEMOLISH ALL LOADS TO THE FIRST POINT OF TERMINATION. IF A LOAD IS MARKED WITH A " * " DEMOLISH THE ENTIRE CIRCUIT.

SHEET KEYNOTES

1. SEE ED605 FOR MORE DETAIL.

LEGEND

EXISTING
DEMOLITION



A1 FCQ4 ONE LINE DIAGRAM DEMOLITION
SCALE: NTS

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

DESIGNED BY:	ISSUE DATE:
E. STADNIK	MMMMMMMM YYYY
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E. STADNIK	W912EF
CHECKED BY:	CONTRACT NO.:
S. SCHEIFF	
SUBMITTED BY:	
LEVI VAN STEENUM, PE	
SIZE:	FILE NUMBER
ANSI D	

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

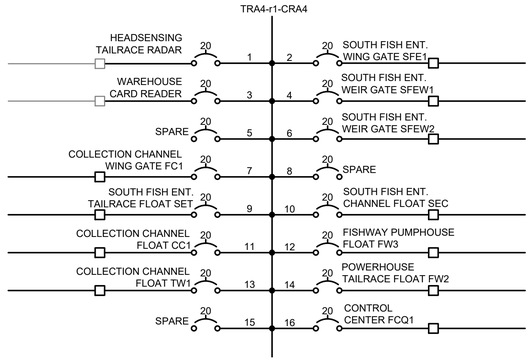
DEMOLITION ONE LINE FCQ4

SHEET ID

ED603

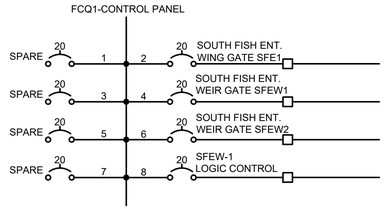
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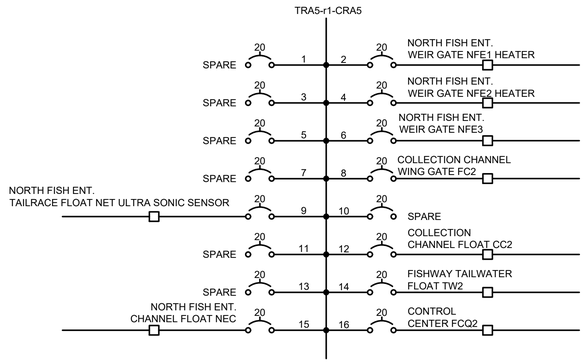
K1 CRA4 PANEL ONE LINE DIAGRAM DEMOLITION

SCALE: NTS



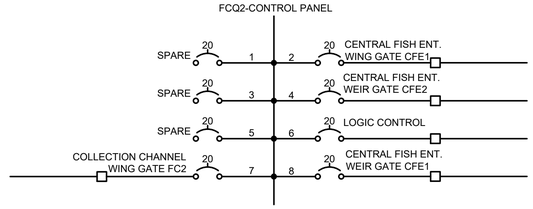
K9 FCQ1 CONTROL PANEL ONE LINE DIAGRAM DEMOLITION

SCALE: NTS



A5 CRA5 PANEL ONE LINE DIAGRAM DEMOLITION

SCALE: NTS



A11 FCQ2 CONTROL PANEL ONE LINE DIAGRAM DEMOLITION

SCALE: NTS

LEGEND

EXISTING

DEMOLITION

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
		06/03/2026

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E. STADNIK	MMMMMMMM YYYY
DRAWN BY:	SOLICITATION NO.:
E. STADNIK	W912EF
CHECKED BY:	CONTRACT NO.:
S. SCHEIFF	
SUBMITTED BY:	
LEVI VAN STEENUM, PE	
SIZE	FILE NUMBER
ANSI D	

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

DEMOLITION FCQ1 AND FCQ2 PANELS

SHEET ID

ED604

INTERIM

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GENERAL NOTES

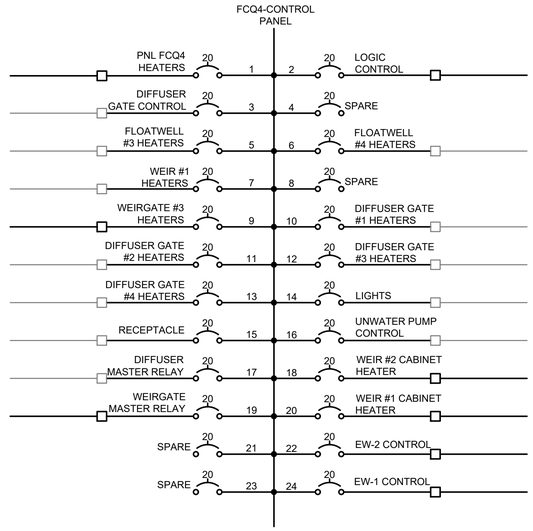
1.

SHEET KEYNOTES

1.

LEGEND

EXISTING
DEMOLITION



A12 FCQ4 CONTROL PANEL ONE LINE DIAGRAM DEMOLITION

SCALE: NTS

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E. HEDINE	W912EF
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S. SCHEIFF	
SUBMITTED BY:	
LEVI VAN STEDUM, PE	
SIZE:	FILE NUMBER
ANSI D	

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
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WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

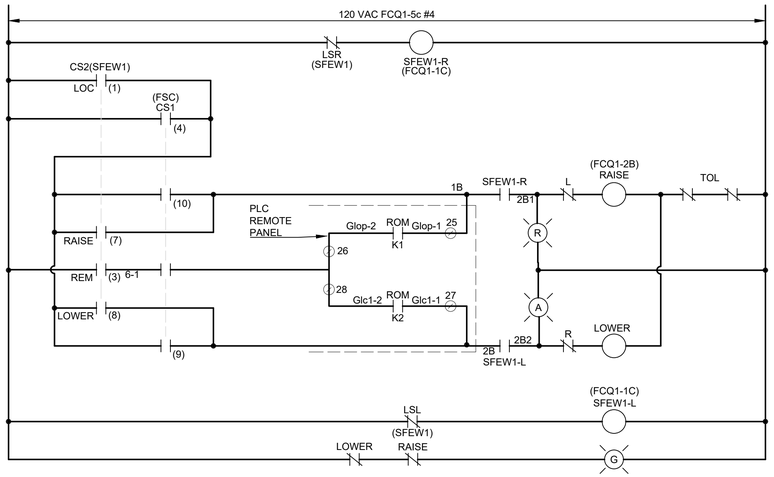
DEMOLITION FCQ4 PANEL

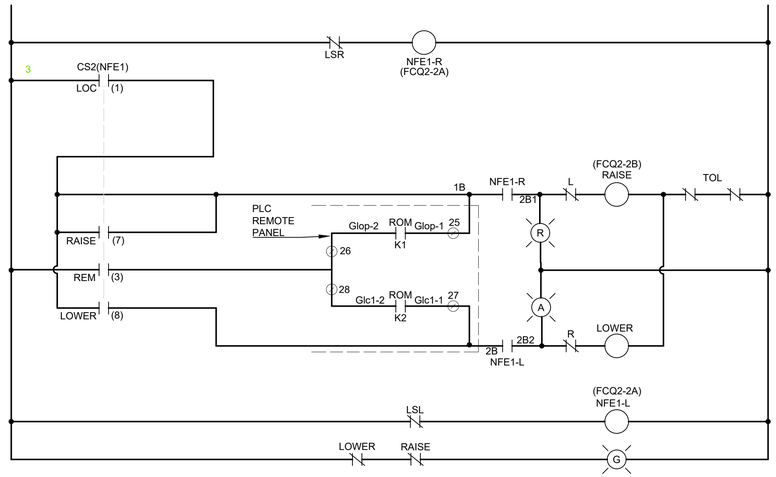
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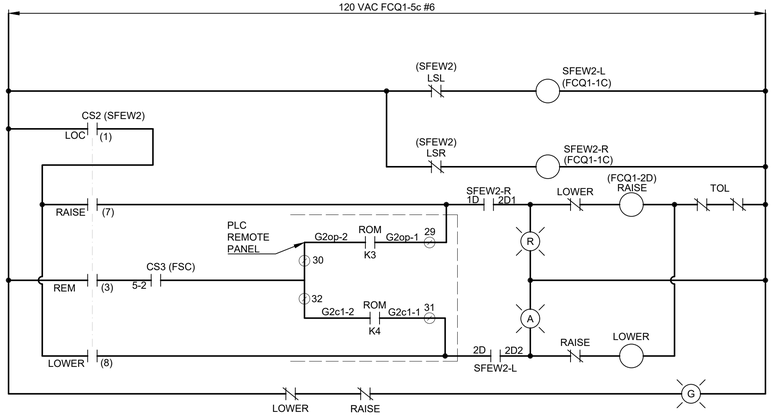
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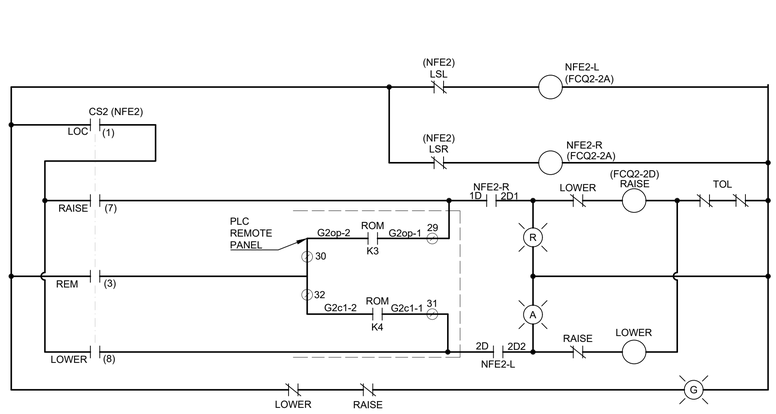
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GENERAL NOTES

1. CONTRACTOR TO VERIFY AND DEMO ALL EXISTING CONTROLS.

LEGEND

1. CS - CONTROL SWITCH
2. LSL - LOWER LIMIT SWITCH
3. LSR- RAISE LIMIT SWITCH
4. ROM - PLC REMOTE RELAY OUTPUT MODULE
5. TOL - THERMAL OVERLOAD RELAY
6. R - RAISE CONTACTOR
7. L - LOWER CONTACTOR

EXISTING
DEMOLITION

A1 SOUTH WEIR GATES SCHEMATIC
SCALE: NTS

A9 CENTRAL WEIR GATES SCHEMATICS
SCALE: NTS

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

DESIGNED BY: E. ADSHEAD
DRAWN BY: E. ADSHEAD
CHECKED BY: S. SCHEIFF
SUBMITTED BY: ADAM STEDUM, PE
SIZE: ANSI D
FILE NUMBER

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

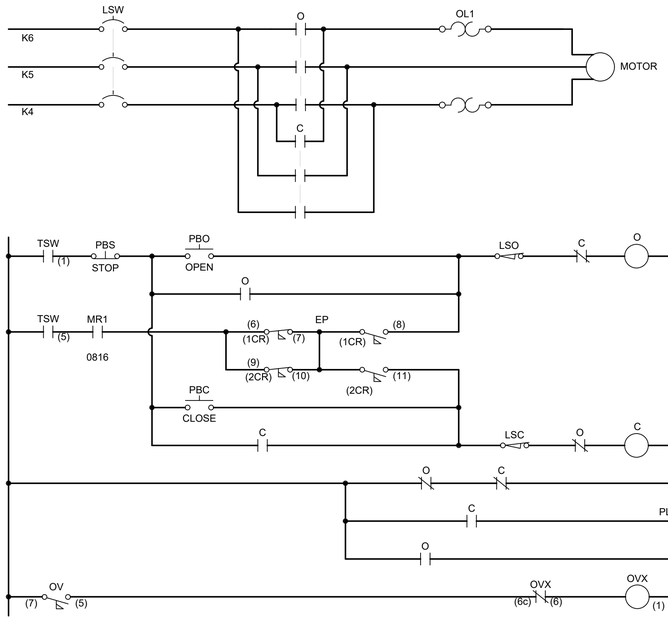
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

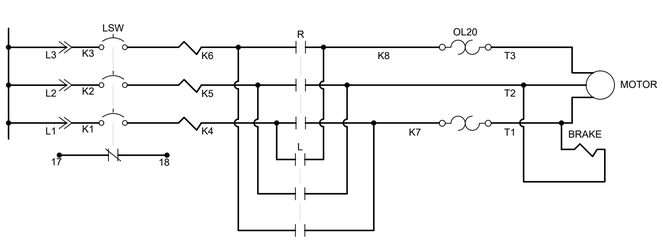
DEMOLITION SCHEMATICS SOUTH AND CENTRAL WEIR GATE

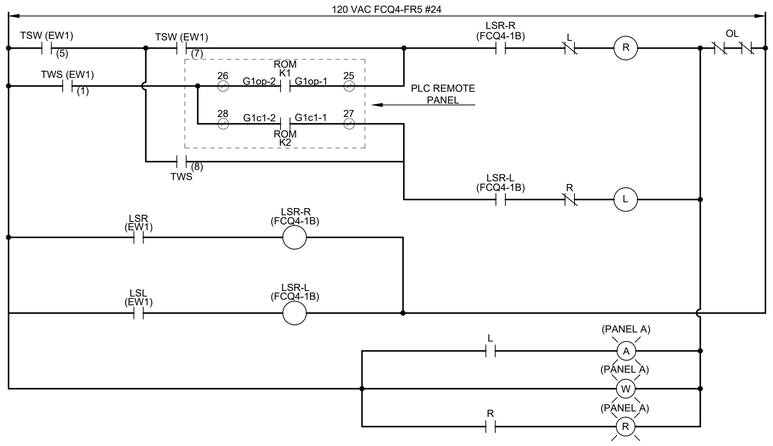
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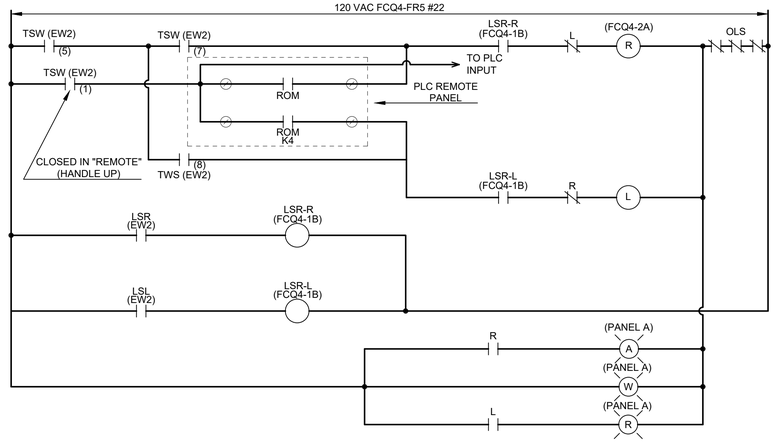
INTERIM







A1 NFEW ENTRANCE WEIR #1
SCALE: NTS



A9 NFEW ENTRANCE WEIR #2
SCALE: NTS

GENERAL NOTES

1. CONTRACTOR TO VERIFY AND DEMO ALL EXISTING CONTROLS.

LEGEND

C	CLOSE CONTACTOR
CS	CONTROL SWITCH
EP	ELECTRONIC POSIT. CONTROL
L	LOWER CONTACTOR
LSC	TRAVEL LIMIT SWITCH - CLOSE
LSL	TRAVEL LIMIT SWITCH - LOWER
LSO	TRAVEL LIMIT SWITCH - OPEN
LSR	TRAVEL LIMIT SWITCH - RAISE
LSW	LINE DISCONNECT
MR	MASTER RELAY
O	OPEN CONTACTOR
OL	OVERLOAD RELAY
LSR	LIMIT SWITCH RELAY
OVX	OVERVOLTAGE RESET
PBC	PUSHBUTTON - CLOSE
PBO	PUSHBUTTON - OPEN
PBS	PUSHBUTTON - STOP
R	RAISE CONTACTOR
TSW	TRANSFER SWITCH
ROM	PLC REMOTE PANEL - REMOTE OUTPUT MODULE

EXISTING
DEMOLITION

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

DESIGNED BY:	ISSUE DATE:
E. ADSHEAD	MMMMMMMM YYYY
DRAWN BY:	SOLICITATION NO.:
E. ADSHEAD	W912EF
CHECKED BY:	CONTRACT NO.:
S. SCHEIFF	
SUBMITTED BY:	APPROVED BY:
DIV. CHIEF	ACCEPTED BY:
SIZE	FILE NUMBER
ANSI D	

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

DEMOLITION SCHEMATIC NORTH WEIR GATE

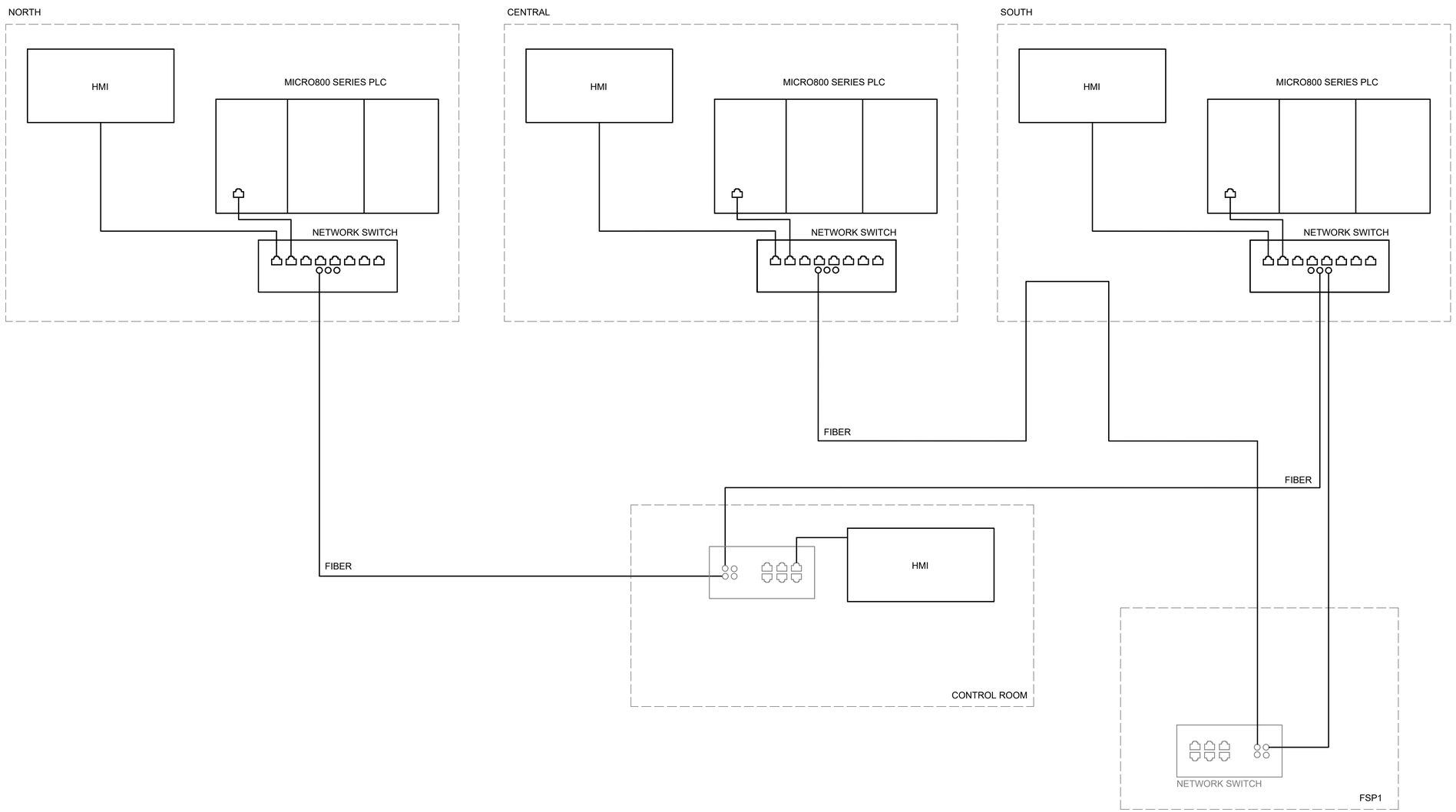
SHEET ID
ED611

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INTERIM

GENERAL NOTES

1. DEMO ALL FIBER LEADING FROM CENTRAL AND SOUTH PLCS GOING TO FSP1 (LOCATED IN A BUILDING OUTSIDE OF THE POWERHOUSE). CONTRACTOR TO RECONNECT FSP1 BACK TO CONTROL ROOM NETWORK SWITCH. GOVERNMENT TO REPRGRAM EXISTING NETWORK SWITCHES.



A1 RADIO NETWORK BLOCK DIAGRAM
SCALE: NTS

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

DESIGNED BY:	ISSUE DATE:
E. ADSHEAD	MMMMMMMM YYYY
DRAWN BY:	SOLICITATION NO.:
E. ADSHEAD	W912EF
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SUBMITTED BY:	
LEVI VAN STEENIM, PE	
SIZE	FILE NUMBER
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U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

DEMOLITION SCHEMATIC - SPARE

SHEET ID

ED612

INTERIM

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FSQ1

CONDUIT			DESCRIPTION										
TAG NAME/NUMBER	SIZE (IN.)	LENGTH (FT.)	TAG NAME/NUMBER	PHASE CONDUCTORS NO. COND.	SIZE	INSUL. (V)	SIZE	LENGTH (FT.)	OPR. VOLTAGE	FROM	TO	FUNCTION	ROUTING	KEYNOTE ID
			FSQ1-q1-FCQ1	3C	1/0	600		160	480	FSQ1	FCQ1	FEEDER TO FCQ1	TRAY F1	
			FSQ1-q1-FCQ2	3C	1/0	600		470	480	FSQ1	FCQ2	FEEDER TO FCQ2	TRAY F1	

DCQ1

CONDUIT			DESCRIPTION										
TAG NAME/NUMBER	SIZE (IN.)	LENGTH (FT.)	TAG NAME/NUMBER	CONDUCTORS NO. COND.	SIZE	INSUL. (V)	SIZE	LENGTH (FT.)	OPR. VOLTAGE	FROM	TO	FUNCTION	ROUTING	KEYNOTE ID
	2		DCQ1-q1-FCQ4	3C	2	600	2/0	265	480	DCQ1	FCQ4	FEEDER FOR FCQ4	CT CONDUIT	
	1 1/2		DCQ1-u1-FCQ4	9C	19/25	1000			120	DCQ1	FCQ4			

FCQ4

CONDUIT			DESCRIPTION										
TAG NAME/NUMBER	SIZE (IN.)	LENGTH (FT.)	TAG NAME/NUMBER	CONDUCTORS NO. COND.	SIZE	INSUL. (V)	SIZE	LENGTH (FT.)	OPR. VOLTAGE	FROM	TO	FUNCTION	ROUTING	KEYNOTE ID
FCQ4-q1-JB1	2	55	FCQ4-q1-JB1	3	19/25	1000		55	480	FCQ4	JB1	POWER	CONDUIT	
			FCQ4-q1-JB1	6	6	600		55	480	FCQ4	JB1	UNWATERING PUMP #7	CONDUIT	
			FCQ4-q1-JB1	2	8	600		55	480	FCQ4	JB1	480 RECEPTACLE	CONDUIT	
FCQ4-q1-JB7	2	72	FCQ4-q1-JB7	3	8	600		72	480	FCQ4	JB7	480 RECEPTACLE	CONDUIT	NOTE 1
			FCQ4-q1-JB7	6	19/25	1000		72	480	FCQ4	JB7	ENTRANCE WEIRS #1 & 2	CONDUIT	
FCQ4-q1	1 1/4		FCQ4-q1	3	8	600		3	480	FCQ4	RECEPTACLE (FCQ4)	480 RECEPTACLE	CONDUIT	
FCQ4-q2.1	1 1/4		FCQ4-q2.1	3	8	600		2	480	JB5	RECEPTACLE	480 RECEPTACLE	CONDUIT	
FCQ4-q2.2	1 1/4		FCQ4-q2.2	3	6	600		128	480	FCQ4	RECEPTACLE (MAIN FLOOR)	480 RECEPTACLE	CONDUIT	
FCQ4-q2.3	1 1/4		FCQ4-q2.3	3	8	600		102	480	RECEP. FCQ4-1.2	RECEPT. WEIR 349	480 RECEPTACLE	CONDUIT	
FCQ4-c1-JB1	2	55	FCQ4-c1-JB1	15	19/25	1000		55	120	FCQ4	JB1	DIFFUSOR #1 CONTROL	CONDUIT	
FCQ4-c1-JB2	2	65	FCQ4-c1-JB2	16	19/25	1000		65	120	FCQ4	JB2	DIFFUSOR #2 CONTROL	CONDUIT	
			FCQ4-c1-JB3	24	19/25	1000		74	120	FCQ4	JB3	DIFFUSOR #3 CONTROL	CONDUIT	
FCQ4-c1-JB5	2 1/2	93	FCQ4-c1-JB5	28	19/25	1000		93	120	FCQ4	JB5	DIFFUSOR #5 CONTROL	CONDUIT	
FCQ4-c1-JB6	2 1/2	105	FCQ4-c1-JB6	28	19/25	1000		105	120	FCQ4	JB6	DIFFUSOR #6 CONTROL	CONDUIT	
FCQ4-c1-JB7	2 1/2	72	FCQ4-c1-JB7	26	19/25	1000		72	120	FCQ4	JB7	ENTRANCE WEIR #1	CONDUIT	NOTE 1
FCQ4-c2-JB7	2	72	FCQ4-c2-JB7	18	19/25	1000		72	120	FCQ4	JB7	ENTRANCE WEIR #1	CONDUIT	NOTE 1
			FCQ4-c1-JB11	22	19/25	1000		700	120	FCQ4	JB11	FISH PUMP CONTROL	CONDUIT	
FCQ4-c2-JB1	2	55	FCQ4-c2-JB1	16	19/25	1000		55	120	FCQ4	JB1		CONDUIT	
FCQ4-c1-JB12	2	130	FCQ4-c1-JB12	18	19/25	1000		130	120	FCQ4	JB12		CONDUIT	
FCQ4-c2-JB12	2	130	FCQ4-c2-JB12	17	19/25	1000		130	120	FCQ4	JB12		CONDUIT	
FCQ4-s1-JB12	2	130										SPARE		

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INTERIM REVIEW

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		06/03/2026

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DESIGNED BY: E. HEDINE
DRAWN BY: E. HEDINE
CHECKED BY: S. SCHEIFF
ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EF##X#####
CONTRACT NO.:
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: ANSI D
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CABLE AND CONDUIT SCHEDULE DEMOLITION

SHEET ID

ED613

INTERIM

FCQ1

CONDUIT			DESCRIPTION											
TAG NAME/NUMBER	SIZE (IN.)	LENGTH (FT.)	TAG NAME/NUMBER	CONDUCTORS NO. COND.	CONDUCTORS SIZE	CONDUCTORS INSUL. (V)	SIZE	LENGTH (FT.)	OPR. VOLTAGE	FROM	TO	FUNCTION	ROUTING	KEYNOTE ID
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FCQ1-c2-SFE1	2	35								---	---			
FCQ1-c2-SFE1E	2	10								---	SFE1 GATE MACH			
			FCQ1-c2-SFEW1	9C	19/25	1000		210	120	FCQ1	---	WEIR GATE SFEW1 CONTROL	TRAY F2	
FCQ1-c1-SFEW1	1 1/2	60								---	---			
FCQ1-c1-SFEW1E	1 1/2	10								---	SFEW1 GATE MACH			
			FCQ1-c2-SFEW2	9C	19/25	1000		230	120	FCQ1	---	WEIR GATE SFEW2 CONTROL	TRAY F2	
FCQ1-c2-SFEW2	2	80								---	---			
FCQ1-c2-SFEW2E	2	10								---	SFEW2 GATE MACH			
			FCQ1-c2-FC1	13C	19/25	1000		240	120	FCQ1		WING GATE FC1 CONTROL	TRAY F2	
FCQ1-c2-FC1 E	2	30								---	FC1 GATE MACH			
			FCQ1-q1	3C	6	600		90	480	FCQ1	---	480V OUTLET	TRAY F1	
FCQ1-q1	1 1/2	40								---	EL.368.83 TAILRACE			
FCQ1-q1.1	1 1/4	95	FCQ1-q1.1	3C	6	600		105	480	TAILRACE DECK	EL.368.83 TAILRACE	480V OUTLET		
FCQ1-q1.11	1 1/4	45	FCQ1-q1.11	3C	6	600		55	480	TAILRACE DECK	EL.353.5 FISH GALL	480V OUTLET		
FCQ1-q1.2	1 1/4	95	FCQ1-q1.2	3C	6	600		105	480	TAILRACE DECK	EL.368.83 TAILRACE	480V OUTLET		
			FCQ1-q1-FC1	3C	12	600		240	480	FCQ1	---	COL CHANNEL WING GATE...	TRAY F1	
FCQ1-q1-FC1 E	1 1/4	30								---	FC1 GATE MOTOR			
			FCQ1-q1-SFEW2	3C	12	600		230	480	FCQ1	---	WEIR GATE SFEW2 POWER	TRAY F1	
FCQ1-q1-SFEW2	1 1/4	80								---	---			
FCQ1-q1-SFEW2 E	1 1/4	10								---	SFEW2 GATE MOTOR			
			FCQ1-q1-SFEW1	3C	12	600		210	480	FCQ1	---	WEIR GATE SFEW1 POWER	TRAY F1	
FCQ1-q1-SFEW1	1 1/4	60								---	---			
FCQ1-q1-SFEW1 E	1 1/4	10								---	SFEW1 GATE MOTOR			
			FCQ1-q1-SFE1	3C	12	600		260	480	FCQ1	---	WEIR GATE SFE1 POWER	TRAY F1	
FCQ1-q1-SFE1	1 1/4	35								---	---			
FCQ1-q1-SFE1 E	1 1/4	10								---	SFE1 GATE MOTOR			
			FCQ1-q1-GS01	3C	12	600		255	480	FCQ1	---	SLUICE GATE GS01 POWER	TRAY F1	
FCQ1-q1-GS01	1 1/4	70								---	---			
FCQ1-q1-GS01 E	1 1/4	10								---	GS01 CONTROL CAB			
			FCQ1-q1-GS02	3C	12	600		240	480	FCQ1	---	SLUICE GATE GS02 POWER	TRAY F1	
FCQ1-q1-GS02	1 1/4	60								---	---			
FCQ1-q1-GS02 E	1 1/4	10								---	GS02 CONTROL CAB			
			FCQ1-q1-GS03	3C	12	600		245	480	FCQ1	---	SLUICE GATE GS03 POWER	TRAY F1	
FCQ1-q1-GS03	1 1/4	60								---	---			
FCQ1-q1-GS03 E	1 1/4	10								---	GS02 CONTROL CAB			
FCQ1-q1-TRA4 E	1	3	FCQ1-q1-TRA4	3C	10	600		10	480	FCQ1	TRA4	HEATING XFMR FEEDER		
			FCQ1-q1-GS1	3C	12	600		95	480	FCQ1	---	SLUICE GATES GS1	TRAY F1	
FCQ1-q1-GS1 E	1 1/2	8								---	---			
FCQ1-q1-GS1 E	1 1/2	5								---	CONTROL CAB TAILRACE			
			FCQ1-q1-GS2	3C	12	600		185	480	FCQ1	---	SLUICE GATES GS2	TRAY F1	
FCQ1-q1-GS2 E	1 1/2	8								---	---			
FCQ1-q1-GS2 E	1 1/2	5								---	CONTROL CAB TAILRACE			
			FCQ1-q1-GS3	3C	12	600		100	480	FCQ1	---	SLUICE GATES GS3	TRAY F1	
FCQ1-q1-GS3 E	1 1/2	8								---	---			
FCQ1-q1-GS3 E	1 1/2	5								---	CONTROL CAB TAILRACE			
FCQ1-q1-TRA1	1	15	FCQ1-q1-TRA1	3C	10	600		295	480	FCQ1	---	LIGHTING XFMR TRA1 FEEDER	TRAY F1	
FCQ1-q1-TRA1 E	1	1								---	TRA1			
			FCQ1-q1-GSL	3C	6	600		295	480	FCQ1	---	SLUICE GATES GSL2	TRAY F1	
FCQ1-q1-GSL	1 1/2	70								---	SS FISHWAY CABLE TRENCH			
			FCQ1-r1-SET	3C	12	600		165	208	FCQ1	---	HEATERS SOUTH FISH ENT....	TRAY F2	
FCQ1-r1-SET	1 1/4	40								---	---			
FCQ1-r1-SET E	1 1/4	2								---	SET FLOAT WELL			
			FCQ1-r1-SEC	3C	12	600		175	208	FCQ1	---	HEATERS SOUTH FISH ENT....	TRAY F2	
FCQ1-r1-SEC	1 1/4	30								---	FD IN SEC RECESS			
			FCQ1-r1-CC1	3C	12	600		155	208	FCQ1	---	HEATERS FISH COLLECTION	TRAY F2	
FCQ1-r1-CC1	1 1/4	30								---	FD IN CC1 RECESS			
			FCQ1-r1-FW2	3C	12	600		165	208	FCQ1	---	HEATER PH TAILRACE FLOAT	TRAY F2	
FCQ1-r1-FW2	1 1/4	30								---	---			
FCQ1-r1-FW2 E	1 1/4	5								---	FW2 FLAOT WELL			
			FCQ1-r1-TW1	3C	12	600		80	208	FCQ1	---	HEATER FISH COL CHANNEL	TRAY F2	
FCQ1-r1-TW1	1 1/4	30								---	---			
FCQ1-r1-TW1 E	1 1/4	5								---	TW1 FLAOT WELL			
FCQ1-r1-TRA4 E	1 1/4	3	FCQ1-r1-TRA4 (NC)	4	8	600		10	208	FCQ1	TRA4	HEATING PANELBOARD...		

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INTERIM REVIEW

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DESIGNED BY: E. HEDINE
DRAWN BY: E. HEDINE
CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: D
ASSD. ID
ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EP##X#####
CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CABLE AND CONDUIT SCHEDULE DEMOLITION

SHEET ID

ED614

INTERIM

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FCQ2

CONDUIT				CONDUCTORS					DESCRIPTION					KEYNOTE ID
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			FCQ2-c1-NFE1	13C	19/25	1000		225	120	FCQ2	---	N. FISH WEIR GATE CONTROL	TRAY F3	
FCQ2-c2-NFE1	2	2								---	CENTERLINE PIER 7			
FCQ2-c2-NFE1	2	-								PIER 7	---			
FCQ2-c2-NFE1 E	2	2								---	NFE1 GATE MACH			
			FCQ2-c1-NFE2	9C	19/25	1000		245	120	FCQ2	---	N. FISH WEIR GATE CONTROL	TRAY F3	
FCQ2-c1-NFE2	1 1/2	2								---	CENTERLINE PIER 7			
FCQ2-c1-NFE2	1 1/2	-								PIER 7	---			
FCQ2-c1-NFE2 E	1 1/2	2								---	NFE2 GATE MACH			
			FCQ2-c1-NFE3	13C	19/25	1000		225	120	FCQ2	---	N. FISH WEIR GATE CONTROL	TRAY F3	
FCQ2-c2-NFE3	2	2								---	CENTERLINE PIER 7			
FCQ2-c2-NFE3	2	-								PIER 7	---			
FCQ2-c2-NFE3 E	2	2								---	NFE3 GATE MACH			
			FCQ2-c1-CC2	13C	19/25	1000		90	120	FCQ2	TERM BOX D/S WALL...	CONTROL FLOAT CC2	TRAY F3	
			FCQ2-c2-NFE1	9C	19/25	1000		225	120	FCQ2	---	N. FISH WEIR GATE CONTROL	TRAY F3	
FCQ2-c1-NFE1	1 1/2	2								---	CENTERLINE PIER 7			
FCQ2-c1-NFE1	1 1/2	-								PIER 7	---			
FCQ2-c1-NFE1 E	1 1/2	2								---	NFE1 GATE MACH			
			FCQ2-c2-NFE2	9C	19/25	1000		245	120	FCQ2	---	N. FISH WEIR GATE CONTROL	TRAY F3	
FCQ2-c2-NFE2	2	2								---	CENTERLINE PIER 7			
FCQ2-c2-NFE2	2	-								PIER 7	---			
FCQ2-c2-NFE2 E	2	2								---	NFE2 GATE MACH			
			FCQ2-c2-NFE3	9C	19/25	1000		225	120	FCQ2	---	N. FISH WEIR GATE CONTROL	TRAY F3	
FCQ2-c1-NFE3	1 1/2	2								---	CENTERLINE PIER 7			
FCQ2-c1-NFE3	1 1/2	-								PIER 7	---			
FCQ2-c1-NFE3 E	1 1/2	2								---	NFE3 GATE MACH			
			FCQ2-c2-FC2	13C	19/25	1000		200	120	FCQ2	---	CONTROL WING GATE FC2	TRAY F2	
FCQ2-c2-FC2 E	2	30								---	FC2 GATE MACH			
			FCQ2-q1-NFE1	3C	12	600		225	480	FCQ2	---	N. FISH WEIR GATE POWER	TRAY F1	
FCQ2-q1-NFE1	1 1/4	2								---	CENTERLINE PIER 7			
FCQ2-q1-NFE1	1 1/4	-								PIER 7	---			
FCQ2-q1-NFE1 E	1 1/4	2								---	NFE1 GATE MACH			
			FCQ2-q1-NFE2	3C	12	600		245	480	FCQ2	---	N. FISH WEIR GATE POWER	TRAY F1	
FCQ2-q1-NFE2	1 1/4	2								---	CENTERLINE PIER 7			
FCQ2-q1-NFE2	1 1/4	-								PIER 7	---			
FCQ2-q1-NFE2 E	1 1/4	2								---	NFE2 GATE MACH			
			FCQ2-q1-FC2	3C	12	600		200	480	FCQ2	---	COLL WING GATE POWER	TRAY F1	
FCQ2-q1-FC2 E										---	FC2 GATE MOTOR			
			FCQ2-q1-GS4	3C	12	600		150	480	FCQ2	---	SLUICE GATE POWER	TRAY F1	
FCQ2-q1-GS4 E	1 1/2	8								---	---			
FCQ2-q1-GS4 E	1 1/2	5								---	GS4 CONTROL CAB TAILRACE			
			FCQ2-q1-GS5	3C	12	600		65	480	FCQ2	---	SLUICE GATE POWER	TRAY F1	
FCQ2-q1-GS5 E	1 1/2	8								---	---			
FCQ2-q1-GS5 E	1 1/2	5								---	GS5 CONTROL CAB TAILRACE			
			FCQ2-q1-GS6	3C	12	600		135	480	FCQ2	---	SLUICE GATE POWER	TRAY F1	
FCQ2-q1-GS6 E	1 1/2	8								---	---			
FCQ2-q1-GS6 E	1 1/2	5								---	GS5 CONTROL CAB TAILRACE			
FCQ2-q1-TRA2	1	45	FCQ2-q1-TRA2	3	10	600		60	480	FCQ2	---	FEEDER LIGHTING XFMR TRA2		
FCQ2-q1-TRA2 E	1	1								---	TRA2			
FCQ2-q1-TRA5 E	1	3	FCQ2-q1-TRA5	3	10	600		10	480	FCQ2	TRA5	FEEDER LIGHTING XFMR TRA5		
			FCQ2-q1	3C	6	600		70	480	FCQ2	---	480V OUTLET	TRAY F1	
FCQ2-q1	1 1/2	25								---	EL.368.83 TAILRACE DECK			
FCQ2-q1.1	1 1/4	90	FCQ2-q1.1	3	6	600		100	480	TAILRACE BAY 5	EL.368.83 TAILRACE DECK	480V OUTLET		
FCQ2-q1.11	1 1/4	45	FCQ2-q1.11	3	6	600		55	480	TAILRACE BAY 4	EL.353.5 FISH GALL U/S WALL	480V OUTLET		
FCQ2-q1.2	1 1/4	90	FCQ2-q1.2	3	6	600		100	480	TAILRACE BAY 5	EL.368.83 TAILRACE DECK	480V OUTLET		
FCQ2-q1.21	1 1/4	50	FCQ2-q1.21	3	6	600		100	480	TAILRACE BAY 6	CENTERLINE PIER 7	480V OUTLET		
FCQ2-q1.21	1 1/4	-								TAILRACE BAY 7	EL.369.33 D/S PARAPET			
FCQ2-q1.22	1 1/4	-	FCQ2-q1.22	3	6	600		75	480	D/S PARAPET	EL.369.33 N. WALL N. FISH...	480V OUTLET		
			FCQ2-r1-CC2	3C	12	600		130	208	FCQ2	---	HEATER POWER COLL. FLOAT	TRAY F2	
FCQ2-r1-CC2	1 1/4	30								---	---			
FCQ2-r1-CC2 E	1 1/4	2								---	FLOATWELL CC2			
			FCQ2-r1-TW2	3C	12	600		125	208	FCQ2	---	HTR POWER TAILWATER...	TRAY F2	
FCQ2-r1-TW2	1 1/4	30								---	---			
FCQ2-r1-TW2 E	1 1/4	2								---	FLOATWELL TW2			
			FCQ2-r1-NEC	3C	12	600		205	208	FCQ2	N. FISH WALL GALLERY	TRAY F2		
FCQ2-r1-NEC	1 1/4	2								N. FISH WALL GALL.	CENTERLINE PIER 7			
FCQ2-r1-NEC	1 1/4	-								CENTERLINE PIER 7	---			
FCQ2-r1-NEC E	1 1/4	2								---	FLOATWELL NEC			
			FCQ2-r1-NET	3C	12	600		210	208	FCQ2	---	HEATER POWER COLL. FLOAT	TRAY F2	
FCQ2-r1-NET	1 1/4	35								---	---			
FCQ2-r1-NET E	1 1/4	2								---	FLOATWELL NET			
FCQ2-r1-TRA5 E	1 1/4	3	FCQ2-r1-TRA5 (NC)	4	8	600		10	208	FCQ2	TRA5	FEEDER HEATING...		

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INTERIM REVIEW

MARK	DESCRIPTION	DATE
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DESIGNED BY: E. HEDINE
DRAWN BY: E. HEDINE
CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: D
ASSY. ID
ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EF##X####
CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CABLE AND CONDUIT SCHEDULE DEMOLITION

SHEET ID

ED615

INTERIM

FSC

CONDUIT														
TAG NAME/NUMBER	SIZE (IN.)	LENGTH (FT.)	TAG NAME/NUMBER	CONDUCTORS NO. COND.	CONDUCTORS SIZE	CONDUCTORS INSUL. (V)	CONDUCTORS SIZE	LENGTH (FT.)	OPR. VOLTAGE	DESCRIPTION FROM	DESCRIPTION TO	DESCRIPTION FUNCTION	DESCRIPTION ROUTING	KEYNOTE ID
FSC-c1-CC2	1 1/2	30	FCQ2-c1-NFE3	13C	19/25	1000		45	120	TERM BOX	---	CONTROL FLOAT CC2	TRAY F3	
FSC-c1-CC2 E	1 1/2	5								---	FLOATWELL CC2 BAY 6			
			FCQ2-c1-TW2	9C	19/25	1000		125	120	FCQ2	---	CONTROL FLOAT TW2	TRAY F3	
FSC-c1-TW2	2	35								---	---			
FSC-c1-TW2 E	2	5								---	FLOATWELL TW2 BAY 5			
			FCQ2-c1-NEC	13C	19/25	1000		205	120	FCQ2	NORTH WALL FISH GALLERY	CONTROL NORTH ENT FLOAT	TRAY F3	
FSC-c1-NEC	2	2								N. FISH GALLERY	CENERLINE PIER 7			
FSC-c1-NEC	2	-								CENTERLINE PIER 7	---			
FSC-c1-NEC E	2	2								---	FLOATWELL NET			
			FCQ2-c1-NET	13C	19/25	1000		210	120	FCQ2	---	CONT N. FISH ENT TAIL FLOAT	TRAY F3	
FCS-c1-NET	2	35								---	---			
FCS-c1-NET E	2	5								---	FLOATWELL NET			
			FCQ2-c1-FC2	9C	19/25	1000		200	120	FCQ2	---	CONTROL WING GATE FC2	TRAY F3	
FCQ2-c1-FC2 E	1 1/2	30								---	FC2 GATE MACH			
FSC-c1-CC1	2	30	FSC-c1-CC1	13C	19/25	1000		115	120	FSC	FLOATWELL CC1	FISHWAY GATE AUTO...	TRAY F3	
FSC-c1-TW1	2	35	FCQ1-c1-TW1	13C	19/25	1000		150	120	FCQ1	FLOATWELL TW1	FISHWAY GATE AUTO...	TRAY F3	
FSC-c1-SEC	2	30	FSC-c1-SEC	13C	19/25	1000			120	FSC	FLOATWELL SEC	FISHWAY GATE AUTO...	TRAY F3	
FSC-c1-SET	2	42	FSC-c1-SET	13C	19/25	1000			120	FSC	FLOATWELL SET	FISHWAY GATE AUTO...	TRAY F3	
FSC-c1-FC1	1 1/2	30	FSC-c1-FC1	9C	19/25	1000			120	FSC	WINGGATE FC1	FISHWAY GATE AUTO...	TRAY F3	
FCQ1-c1-SFEW1	1 1/2	70	FSC-c1-SFEW1	13C	19/25	1000			120	FSC	WEIRGATE SFEW1	FISHWAY GATE AUTO...	TRAY F3	
FCQ1-c1-SFEW2	1 1/2	90	FSC-c1-SFEW2	9C	19/25	1000			120	FSC	WEIRGATE SFEW2	FISHWAY GATE AUTO...	TRAY F3	
			FSC-u1-FSQ1	13C	19/25	1000			120/125DC	FSC	FSQ1	ANNUNCIATION	TRAY F1&2	
SG-u1-FW2	1 1/2	35	FCQ1-u1-FW2	9C	19/25	1000			120/125DC	FCQ1	FLOATWELL FW2	TAILRACE RECORDER	TRAY F3	

US Army Corps of Engineers®

INTERIM REVIEW

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CABLE AND CONDUIT SCHEDULE DEMOLITION

SHEET ID
ED616

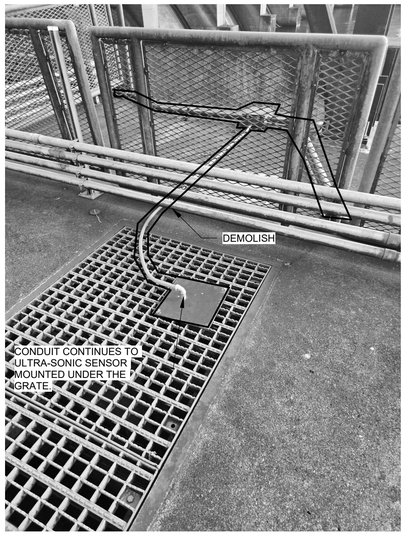
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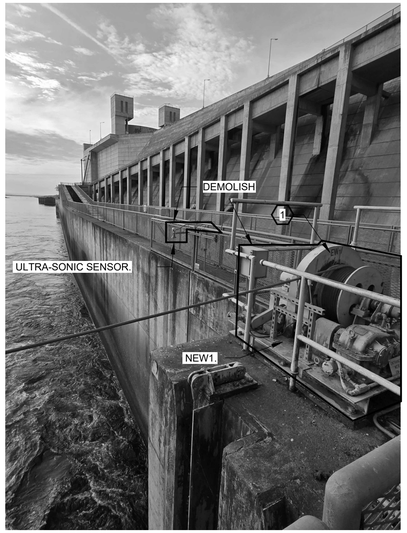
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GENERAL NOTES

1. REMOVE GROUND WIRE AND CAP OFF CONDUIT IN ACORDANCE WITH NFPA 70.



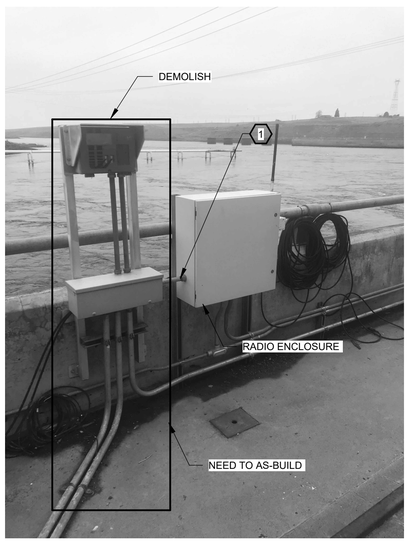
A3 ED123 G1 DEMOLITION PICTURE 5
SCALE: NTS



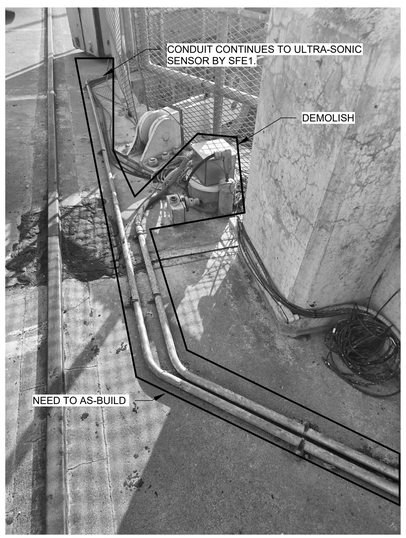
A3 ED123 G6 DEMOLITION PICTURE 6
SCALE: 1/8" = 1'-0"



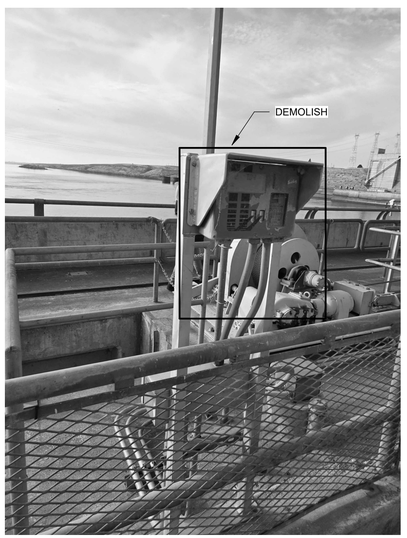
A1 E-124 G11 DEMOLITION PICTURE 7
SCALE: 1/8" = 1'-0"



A1 ED119 A1 DEMOLITION PICTURE 1
SCALE: NTS



A1 ED119 A6 DEMOLITION PICTURE 2
SCALE: NTS



A1 ED114 A11 DEMOLITION PICTURE 3
SCALE: NTS



A1 ED114 A16 DEMOLITION PICTURE 4
SCALE: NTS

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
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WEIR GATE MACHINERY REPLACEMENT

DEMOLITION PICTURES PART 1

SHEET ID
ED901

INTERIM

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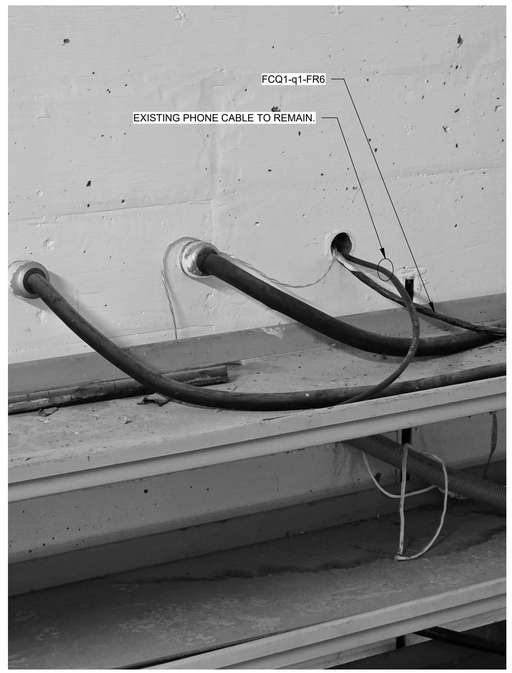
A1 ED122 H1 ED902-PICTURE 4
SCALE: NTS



A1 ED122 A1 ED902 - PICTURE 3
SCALE: NTS



A1 ED122 A7 ED902 PICTURE 2
SCALE: NTS



A1 ED111 A15 ED902 PICTURE 1
SCALE: NTS

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U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

DEMOLITION PICTURES PART 2

SHEET ID
ED902

INTERIM

FSP1
ANNUNCIATION
PANEL.

A12 / ED120 — A10 — ED903 - PICTURE 2
SCALE: NTS

A1 / ED115 — A16 — ED903 - PICTURE 1
SCALE: NTS

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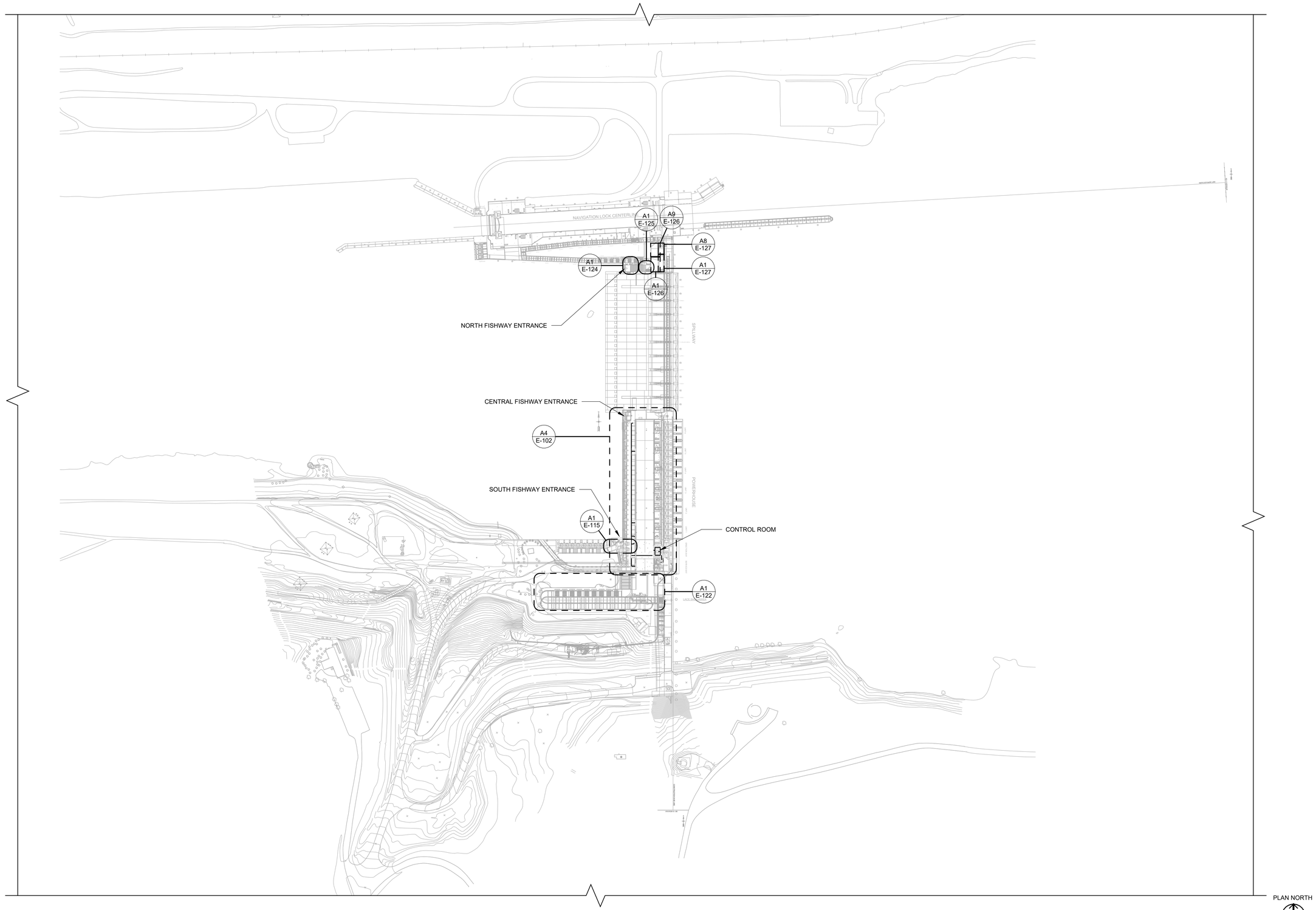
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

DEMOLITION PICTURES PART 3

SHEET ID

ED903

INTERIM



A1 INSTALL - ICE HARBOR ELECTRICAL SITE PLAN

SCALE: 1" = 200'-0"

US Army Corps of Engineers®

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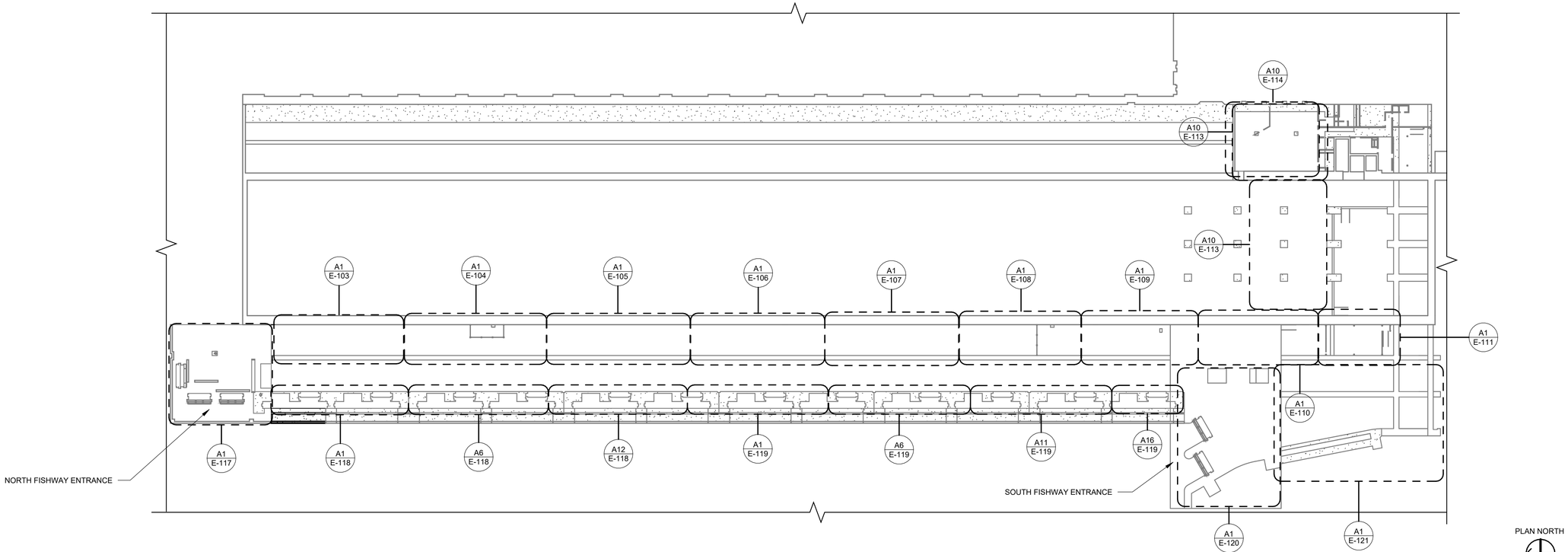
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

ICE HARBOR ELECTRICAL SITE PLAN - INSTALL

SHEET ID

E-101

INTERIM



A4 INSTALL - SFE, CFE, FISHWAY GALLERY, AND CONTROL ROOM ELECTRICAL SITE PLAN

SCALE: 1/32" = 1'-0"

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SIZE: D
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ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EF###X#####
CONTRACT NO.:
FILE NUMBER:

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WALLA WALLA DISTRICT
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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

ICE HARBOR ELECTRICAL SITE PLAN - INSTALL

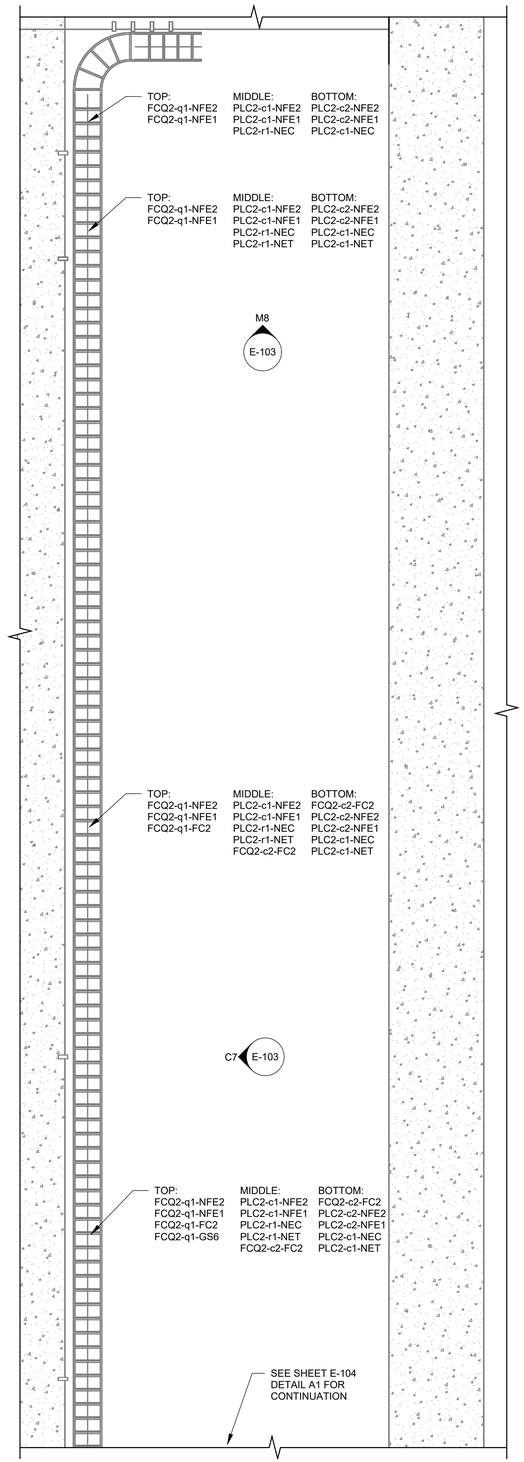
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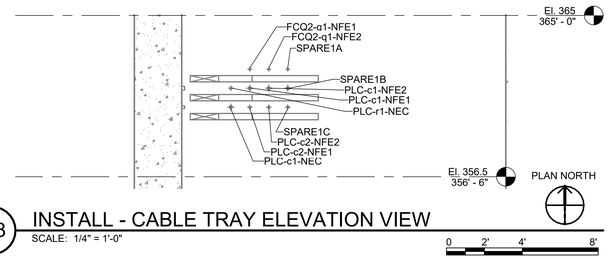
INTERIM



A1 INSTALL - FISHWAY GALLERY - PIERS 7 & 6

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

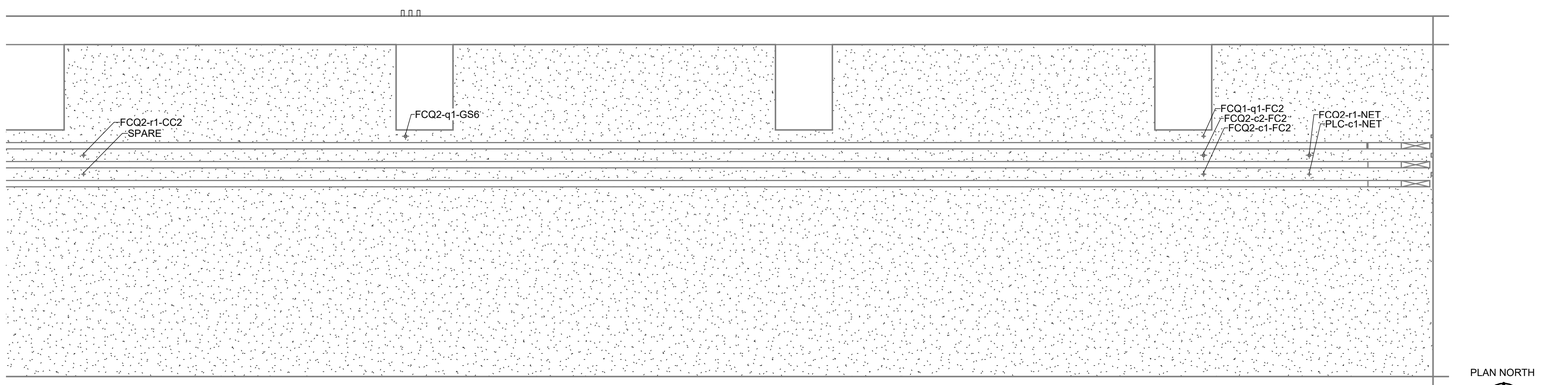
0 2' 4' 8'



M8 INSTALL - CABLE TRAY ELEVATION VIEW

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

0 2' 4' 8'



C7 INSTALL - CABLE TRAY CONDUIT STUBS ELEVATION VIEW

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

0 2' 4' 8'

KEY NOTES

1.

LEGEND

EXISTING

INSTALL

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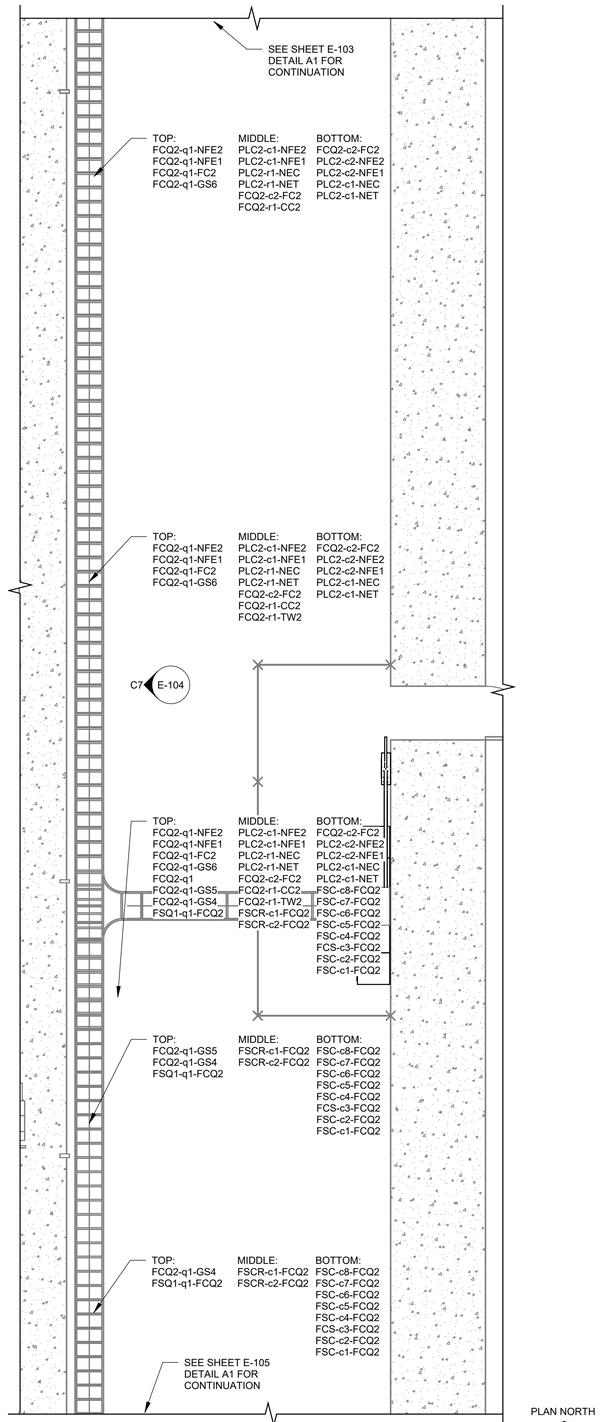
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CENTRAL FISHWAY GALLERY - INSTALL

SHEET ID

E-103

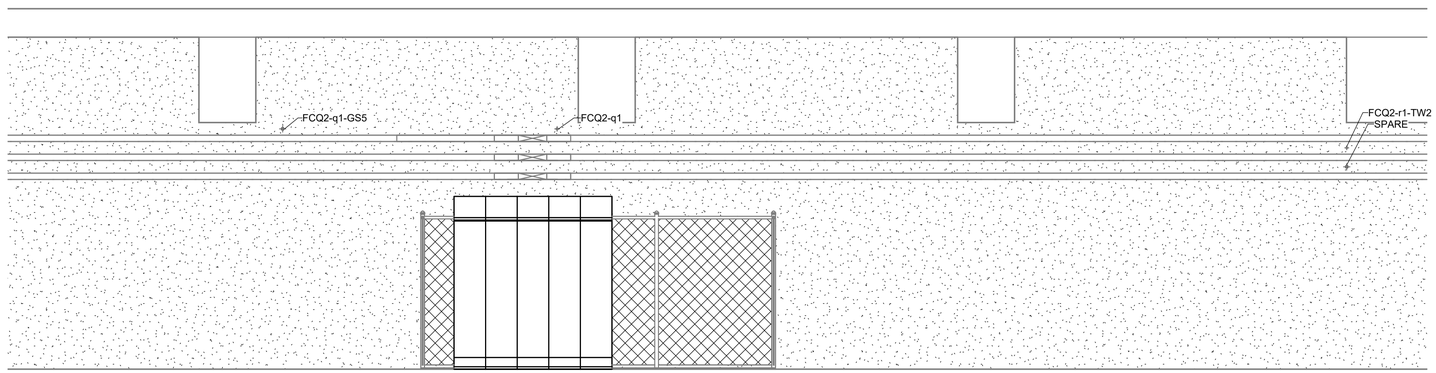
INTERIM



A1 INSTALL - FISHWAY GALLERY AND FCQ2

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

0 2' 4' 8'



C7 INSTALL - CABLE TRAY CONDUIT STUBS ELEVATION VIEW1

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

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

INSTALL

FLEXABLE CONDUIT

US Army Corps of Engineers®

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WALLA WALLA DISTRICT
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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CENTRAL FISHWAY GALLERY - INSTALL

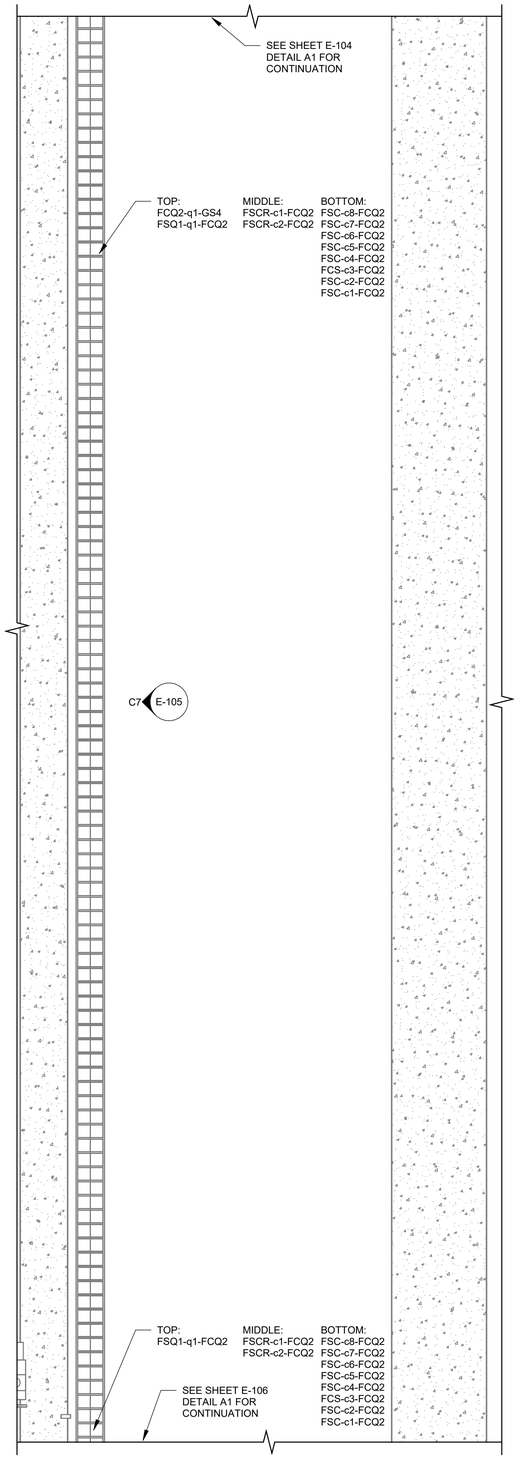
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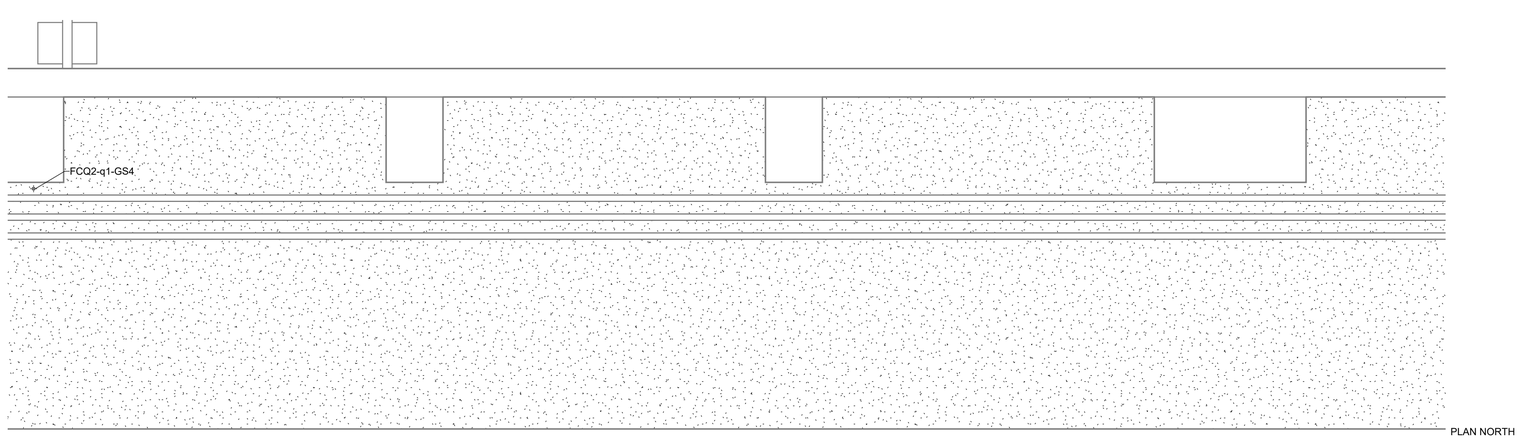
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A1 INSTALL - FISHWAY GALLERY P5 T0 P4

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



C7 INSTALL - CABLE TRAY CONDUIT STUBS ELEVATION VIEW2

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

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

INSTALL

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CENTRAL FISHWAY GALLERY INSTALLATION

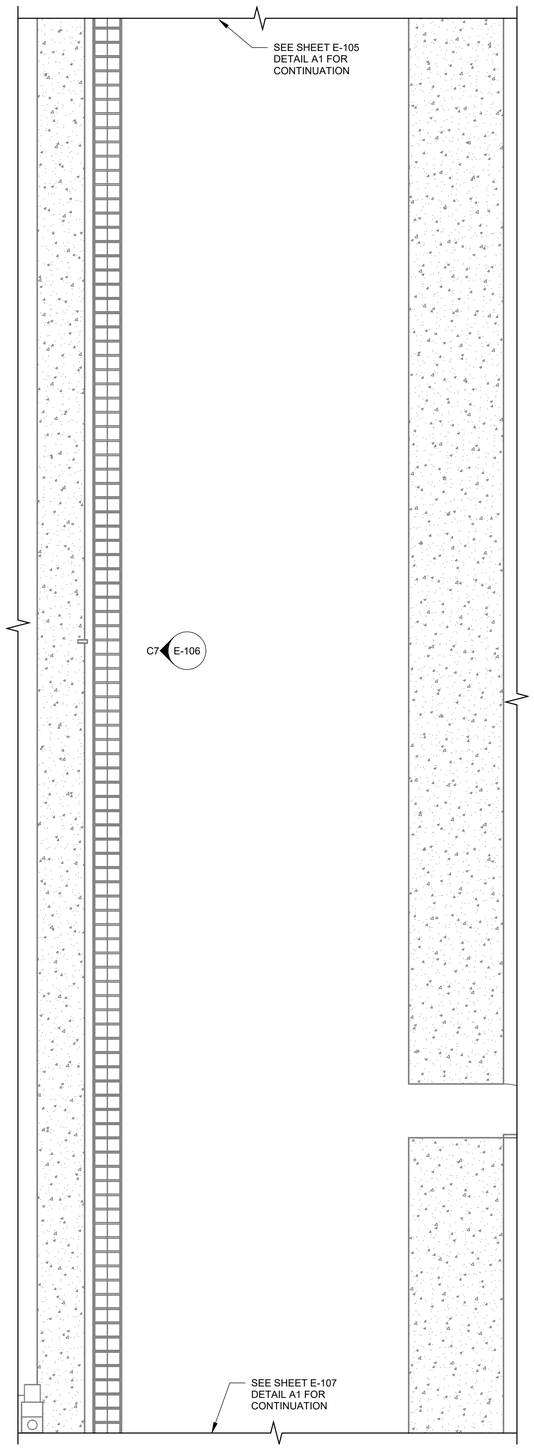
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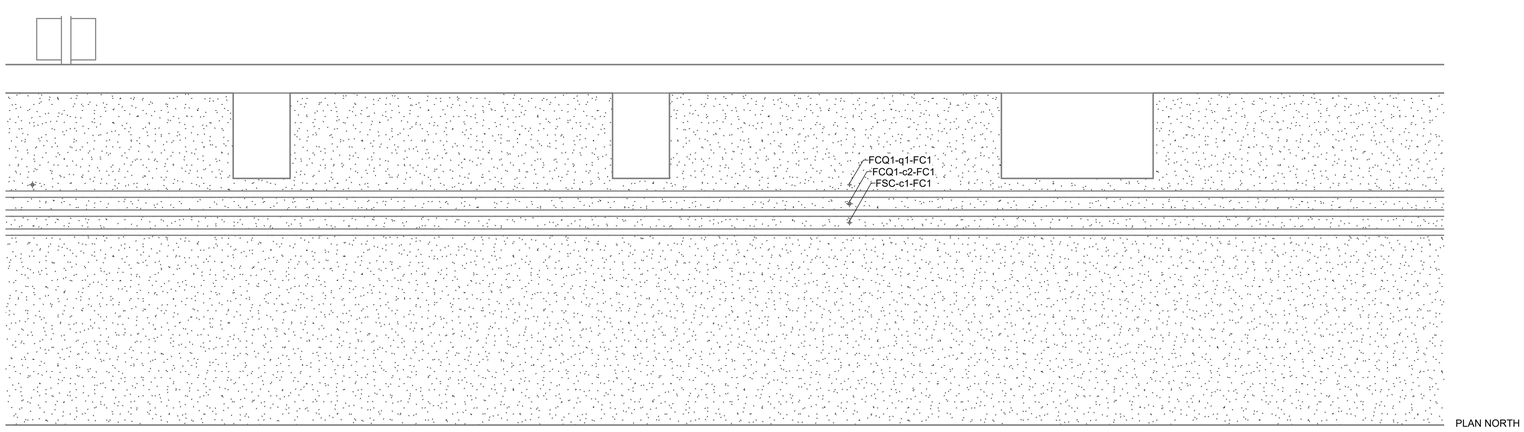
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A1 INSTALL - FISHWAY GALLERY PIERS 4 TO 3

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



C7 INSTALL - CABLE TRAY CONDUIT STUBS ELEVATION VIEW3

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

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

INSTALL

FLEXABLE CONDUIT

US Army Corps of Engineers®

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U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

FISHWAY GALLERY - INSTALL

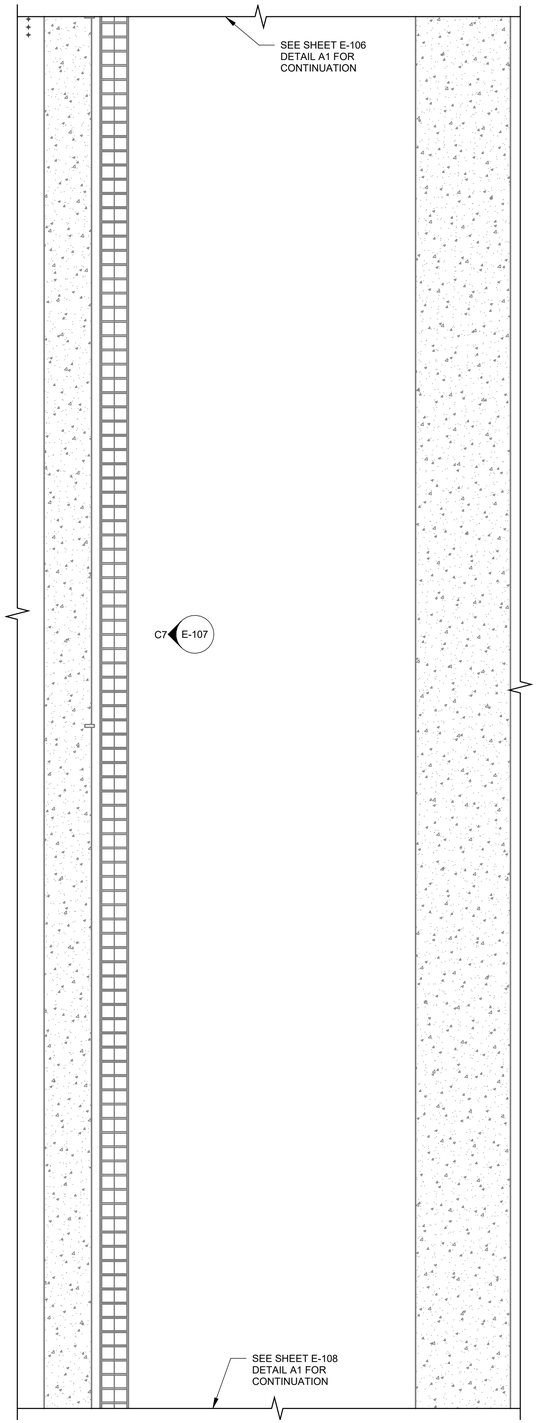
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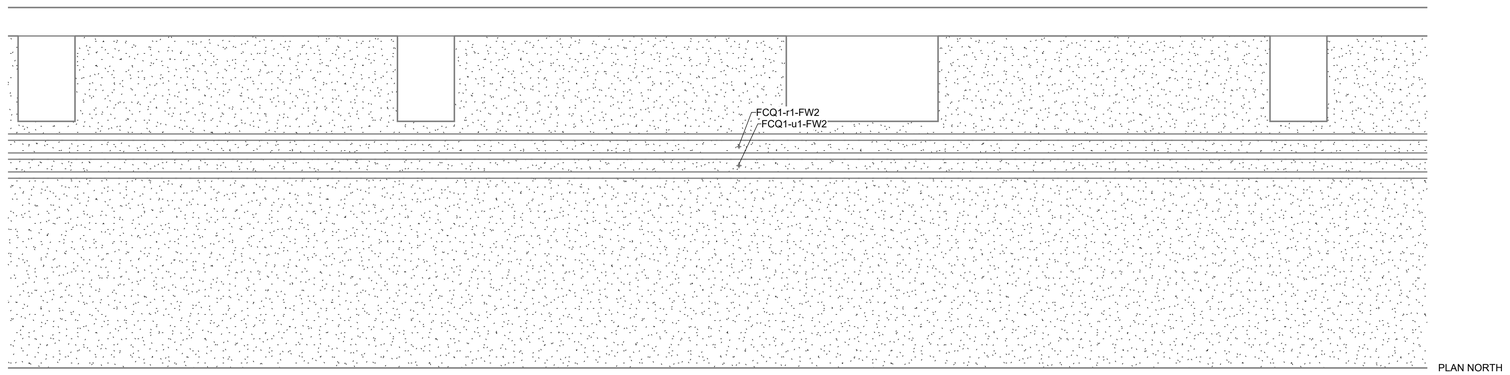
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A1 INSTALL - FISHWAY GALLERY PIERS 4 TO 2

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



C7 INSTALL - CABLE TRAY CONDUIT STUBS ELEVATION VIEW4

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

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

INSTALL

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US Army Corps of Engineers®

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISHWAY GALLERY - INSTALL

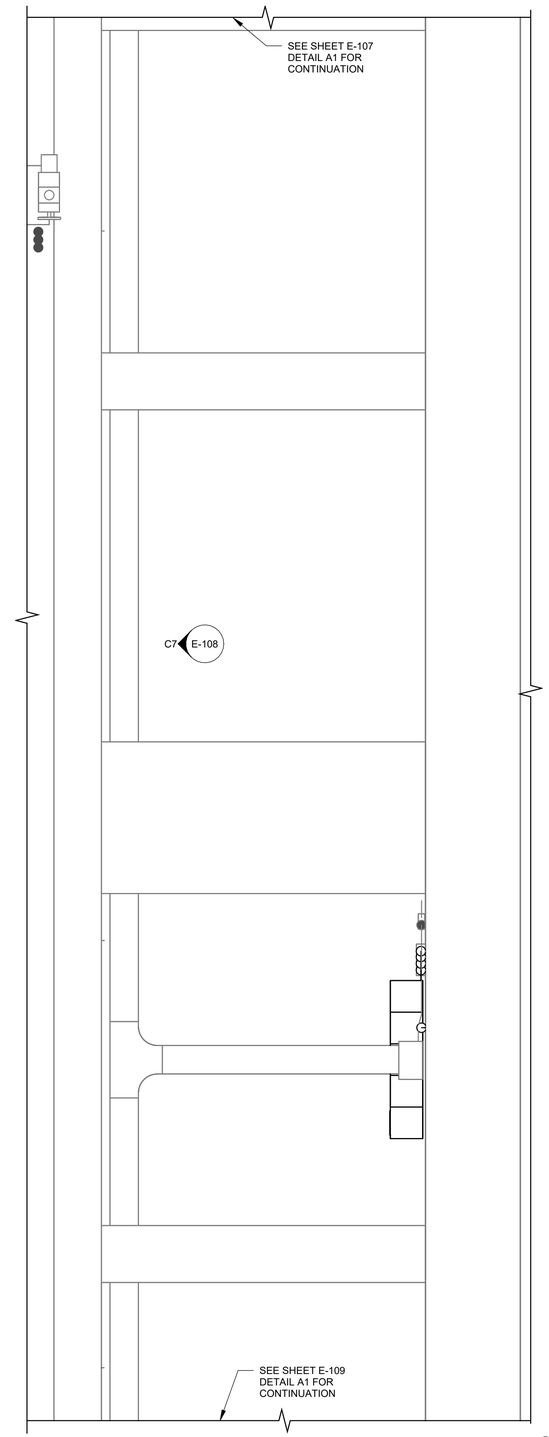
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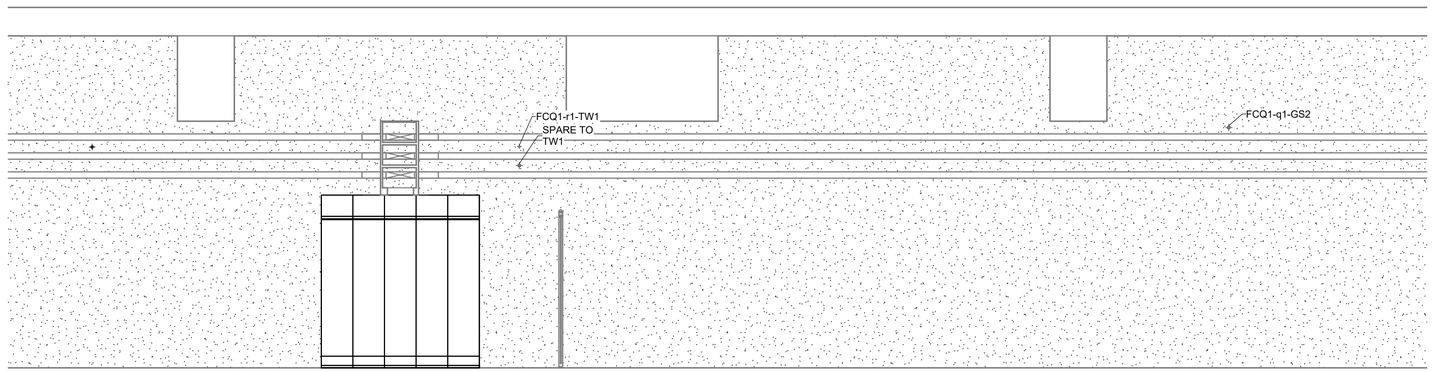


PLAN NORTH

A1 INSTALL - FISHWAY GALLERY AND FCQ1

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

0 2' 4' 8'



PLAN NORTH

C7 INSTALL - CABLE TRAY CONDUIT STUBS ELEVATION VIEW5

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

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISHWAY GALLERY - INSTALL

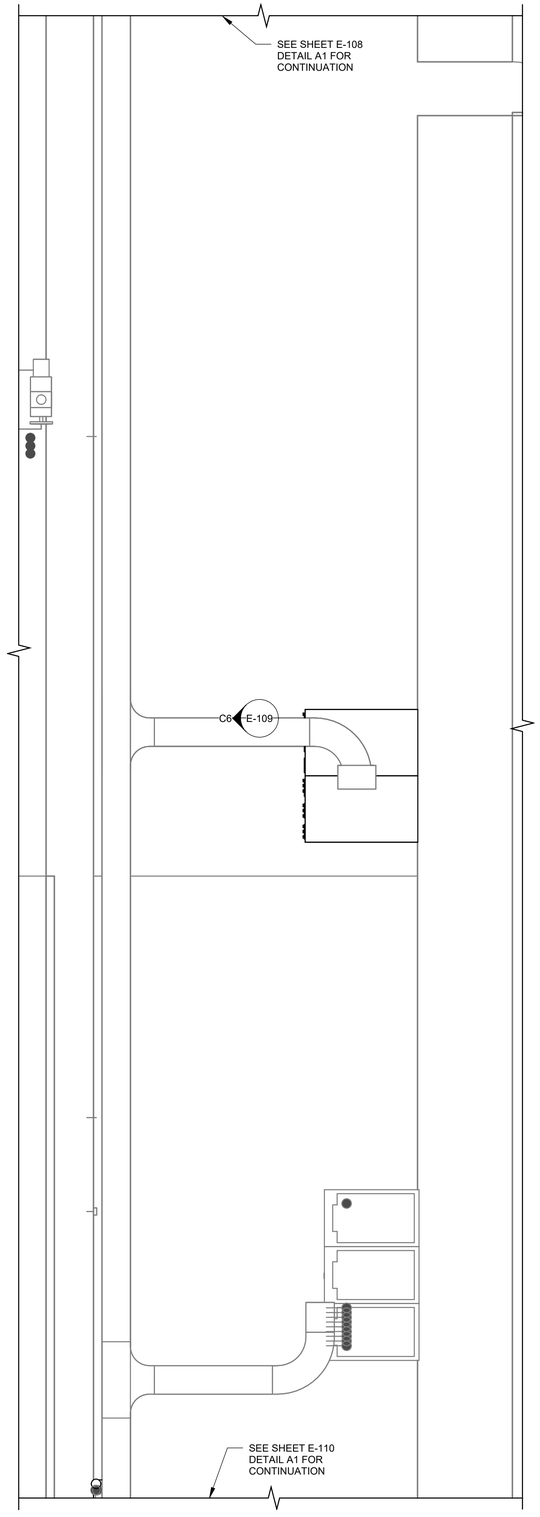
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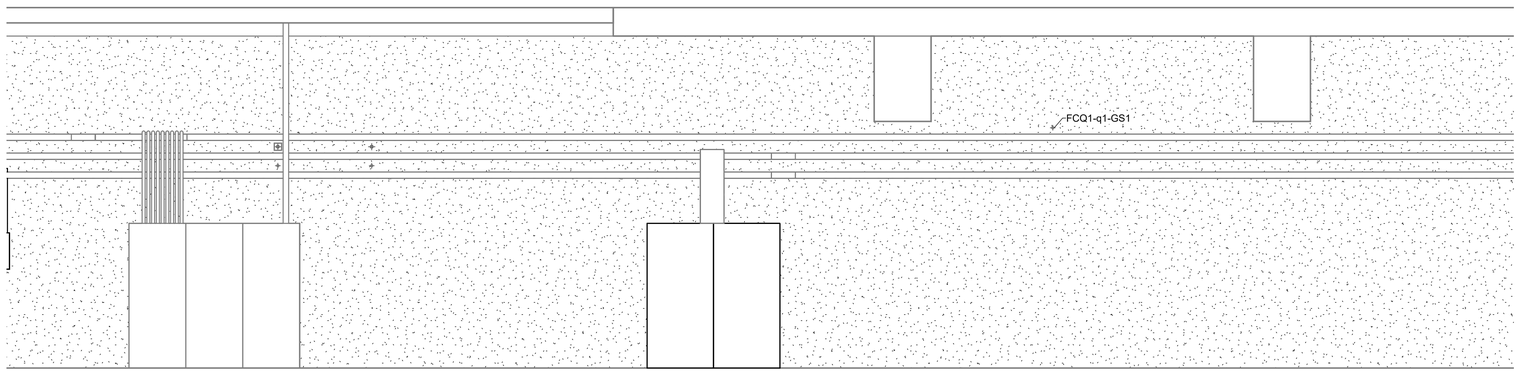
INTERIM



A1 INSTALL - FISHWAY GALLERY AND FSC
SCALE: 1/4" = 1'-0"

PLAN NORTH

0 2' 4' 8'



C6 INSTALL - CABLE TRAY CONDUIT STUBS ELEVATION VIEW6
SCALE: 1/4" = 1'-0"

PLAN NORTH

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

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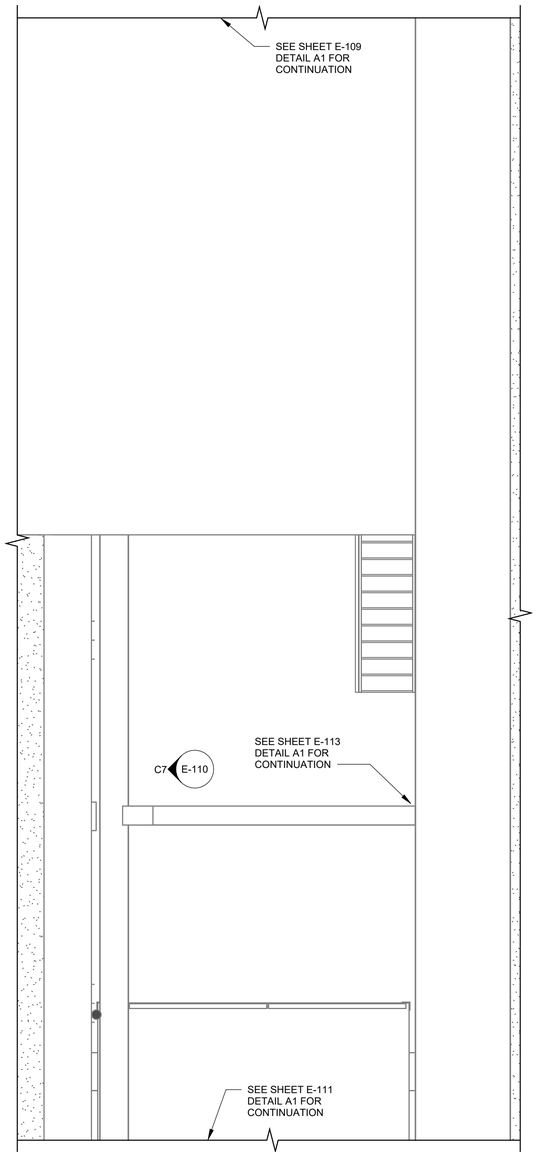
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISHWAY GALLERY - INSTALL

SHEET ID

E-109

INTERIM

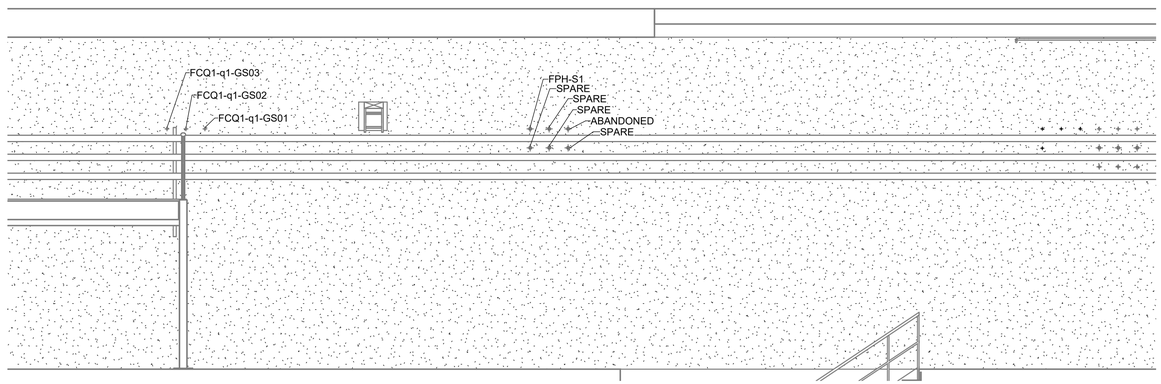


PLAN NORTH

A1 INSTALL - FISHWAY GALLERY AND STAIRS

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

0 2' 4' 8'



PLAN NORTH

C7 INSTALL - CABLE TRAY CONDUIT STUBS ELEVATION VIEW7

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

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISHWAY GALLERY - INSTALL

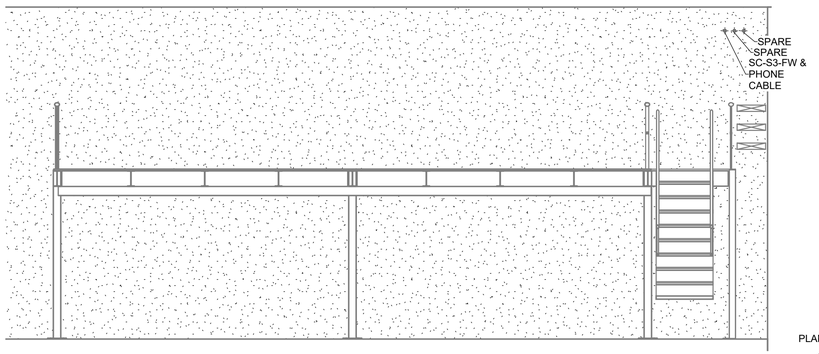
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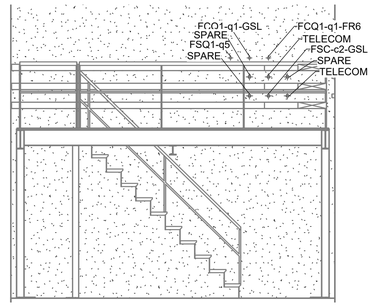


PLAN NORTH

K1 INSTALL - CONDUIT STUBS EAST ELEVATION VIEW

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

0 2' 4' 8'

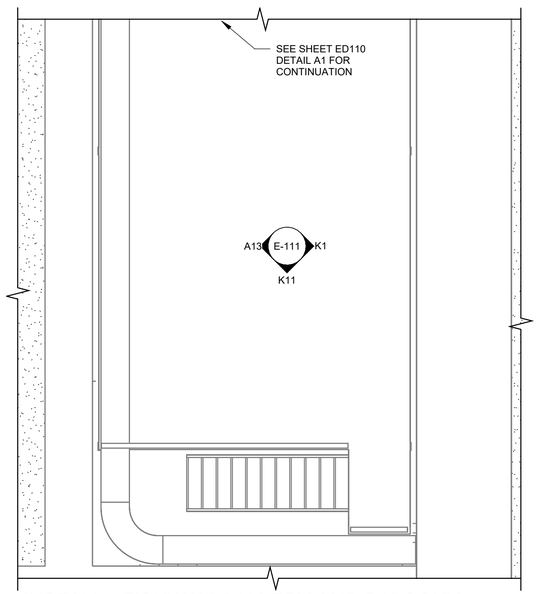


PLAN NORTH

K11 INSTALL - SOUTH ELEVATION VIEW

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

0 2' 4' 8'

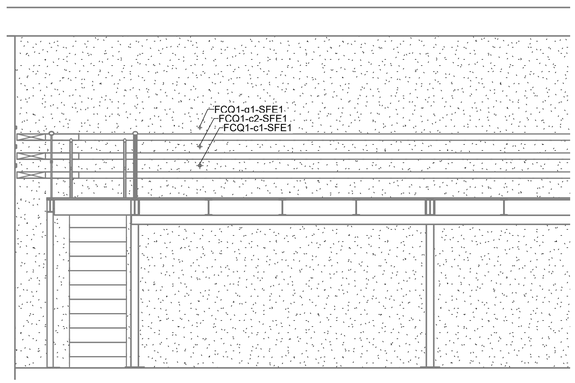


PLAN NORTH

A1 INSTALL - FISHWAY GALLERY AND BALCONY

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

0 2' 4' 8'



PLAN NORTH

A13 INSTALL - CABLE TRAY CONDUIT STUBS WEST ELEVATION VIEW

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

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

INSTALL

FLEXABLE CONDUIT

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
		06/03/2026

DESIGNED BY: E. HEDINE
DRAWN BY: E. HEDINE
CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: D
ANSI D
ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EF###X#####
CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

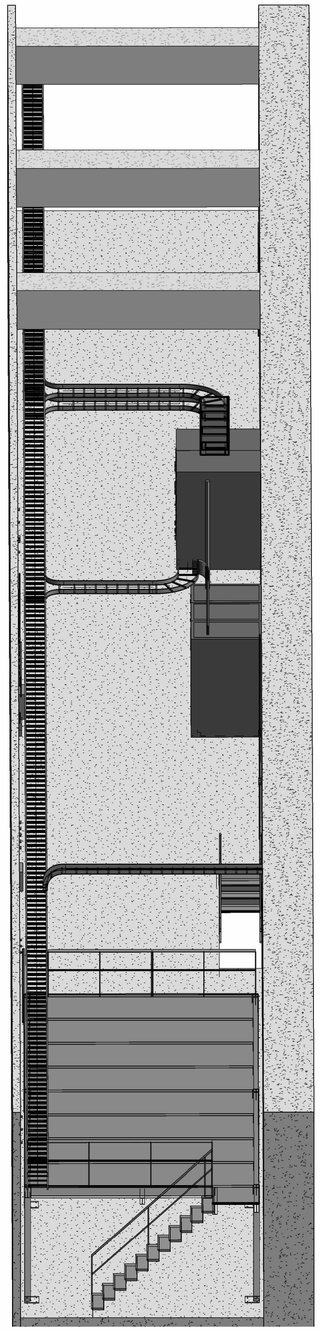
SOUTH FISHWAY GALLERY - INSTALL

SHEET ID

E-111

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PD: ADOBE PRINT
6/2/2026 10:52:13 AM

INTERIM



PLAN NORTH

A12 INSTALL - FISHWAY GALLERY ISOMETRIC

SCALE: 0 2' 4' 8' 12'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

INSTALL

FLEXABLE CONDUIT

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EF##XX####
CONTRACT NO.:

DESIGNED BY: E. HEDINE
DRAWN BY: E. HEDINE
CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: ANSI D
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

FISHWAY GALLERY ISOMETRIC VIEW - INSTALL

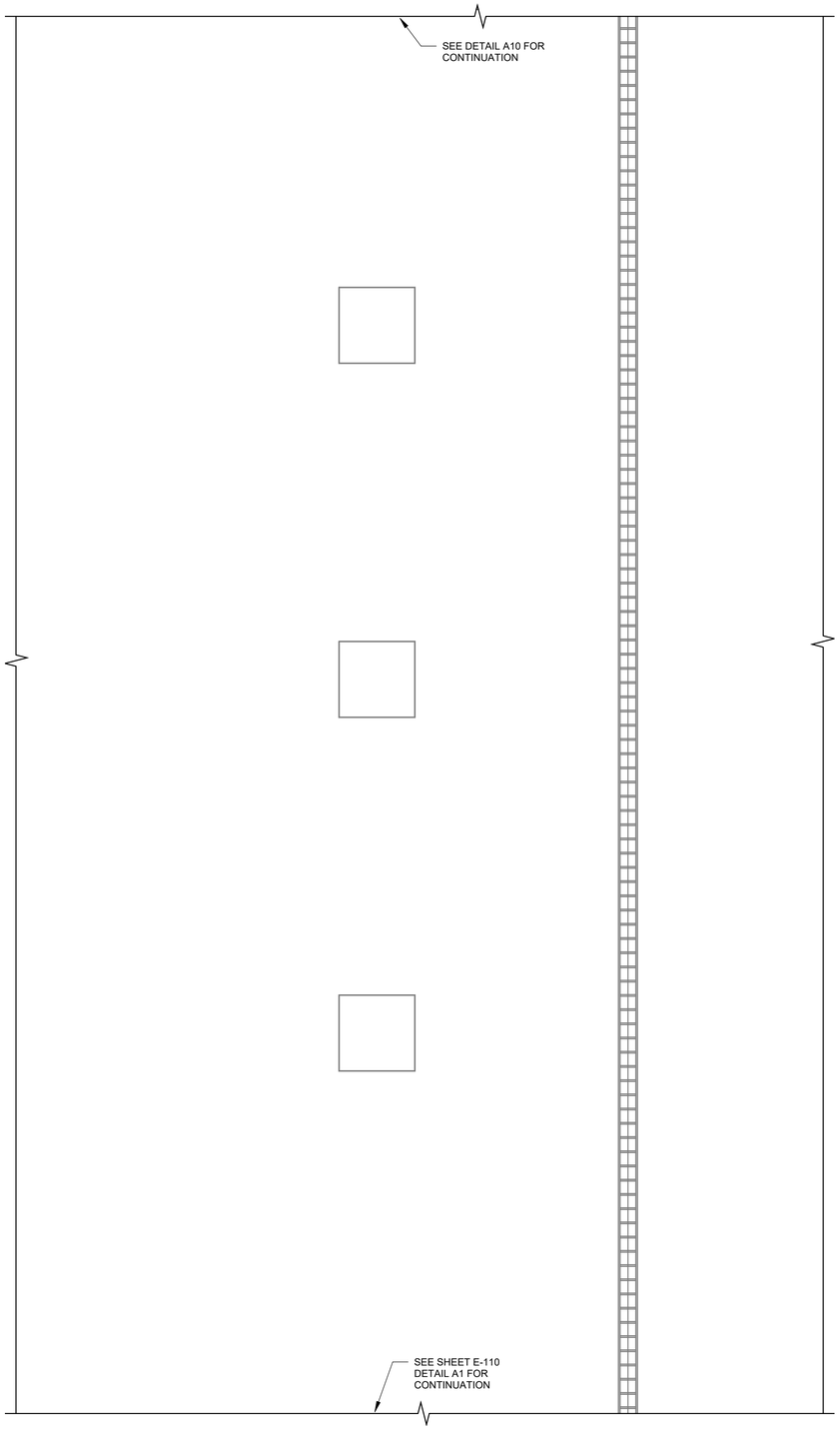
SHEET ID

E-112

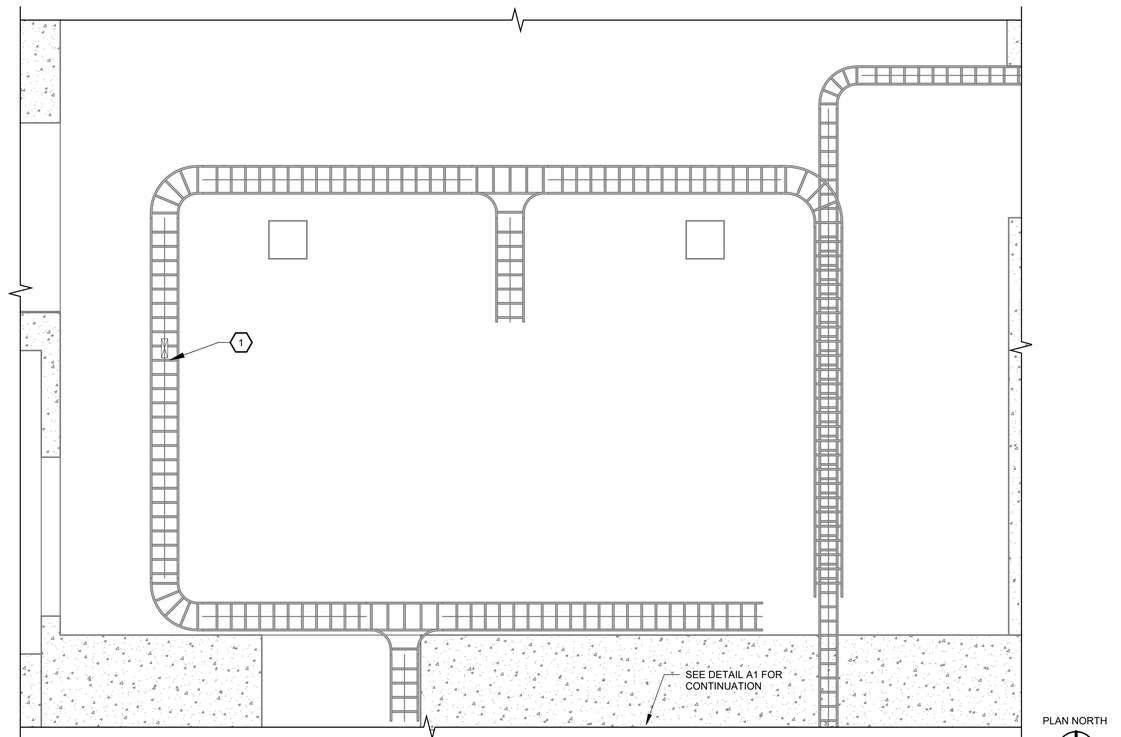
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DS: DIROOTS

6/2/2026 10:52:19 AM

INTERIM



A1 INSTALL - ERECTION BAY EL. 349.5
SCALE: 1/4" = 1'-0"



A10 INSTALL - CABLE SPREADING ROOM EL 349.5
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. EXACT ROUTING FOR FIBER TO BE DETERMINED AS OF INTERIM REVIEW.

KEY NOTES

1. FIBER RISES UP AND CONTINUES ON SHEET E-114.

LEGEND

- EXISTING
- INSTALL
- FLEXABLE CONDUIT

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
		06/03/2026

DESIGNED BY: E. HEDINE
DRAWN BY: E. HEDINE
CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: ANSI D
ISSUE DATE: MMMMMMMM YYYY
SOLICITATION NO.: W912EF##X####
CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

ERECTION BAY FIBER ROUTING - INSTALL

SHEET ID
E-113

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PD: ADOBE PRINT
DS: DIROOTS
6/2/2026 10:52:19 AM

INTERIM

GENERAL NOTES

1. EXACT ROUTING FOR FIBER TO BE DETERMINED.

KEY NOTES

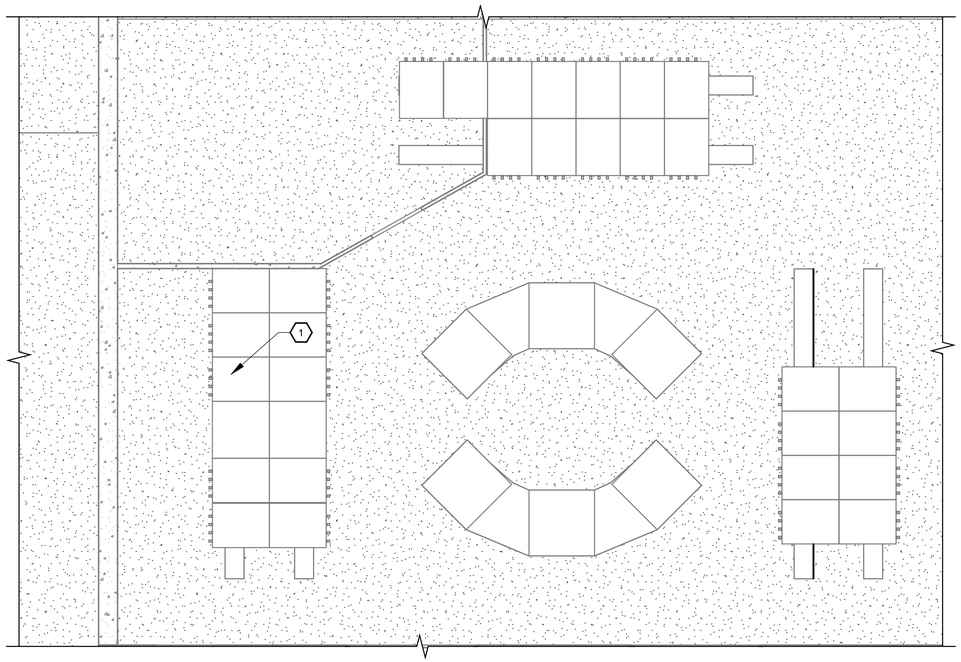
1. FIBER ROUTES FSP1 AND NEW [WEIR-f1-CR] ROUTE DOWN AND CONTINUES ON SHEET E-113.

LEGEND

EXISTING

INSTALL

FLEXABLE CONDUIT



PLAN NORTH

A10 INSTALL - CONTROL ROOM

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

0 2' 4' 8'

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

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CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: ANSI D
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

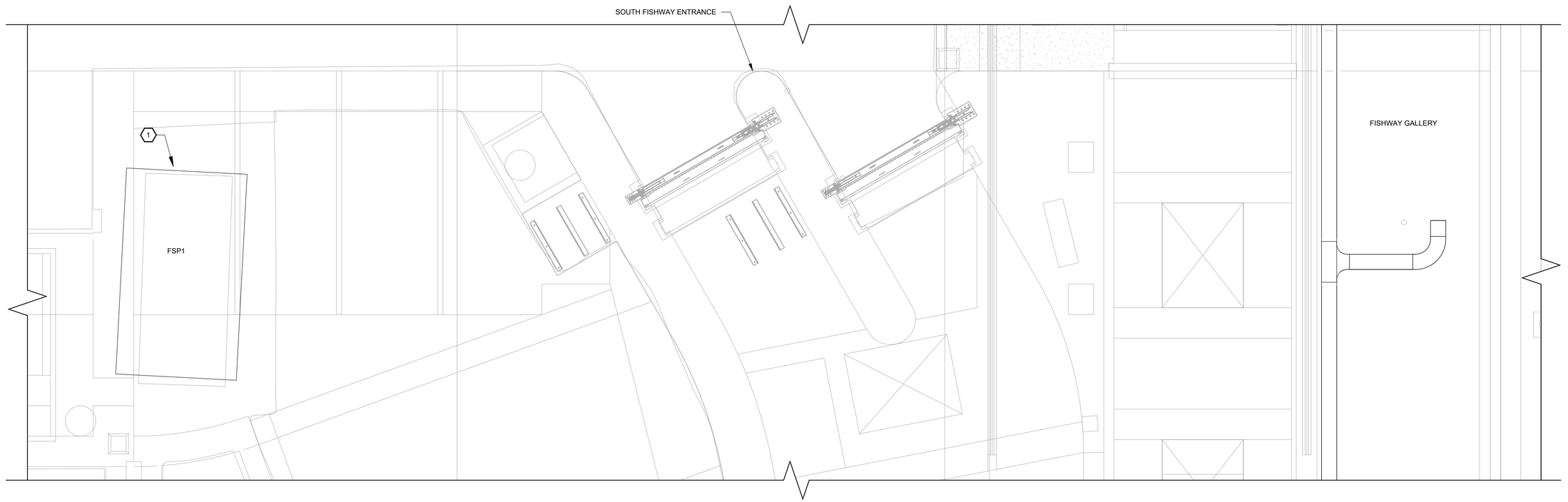
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CONTROL ROOM FIBER ROUTING - INSTALL

SHEET ID

E-114

INTERIM



GENERAL NOTES

1. FIBER IS BEING ROUTED FROM THE CENTRAL CONTROL PLC TO THE FISH PUMP HOUSE TO THE SOUTH CONTROL PLC TO THE CONTROL ROOM. ALL ROUTING LEAVING THE POWER HOUSE IS EMBEDDED CONDUIT UNTIL THE PUMP HOUSE.

KEY NOTES

1. FSP FISHPUMP HOUSE WHERE FIBER IS ROUTED.

A1 INSTALL - FISH PUMP HOUSE

SCALE: 3/16" = 1'-0"

PLAN NORTH

0 10' 20' 40'

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

DESIGNED BY: E. HEDINE
DRAWN BY: E. HEDINE
CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: D
ASSOC.
ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EF###X#####
CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

FISH PUMP HOUSE FIBER ROUTING - INSTALL

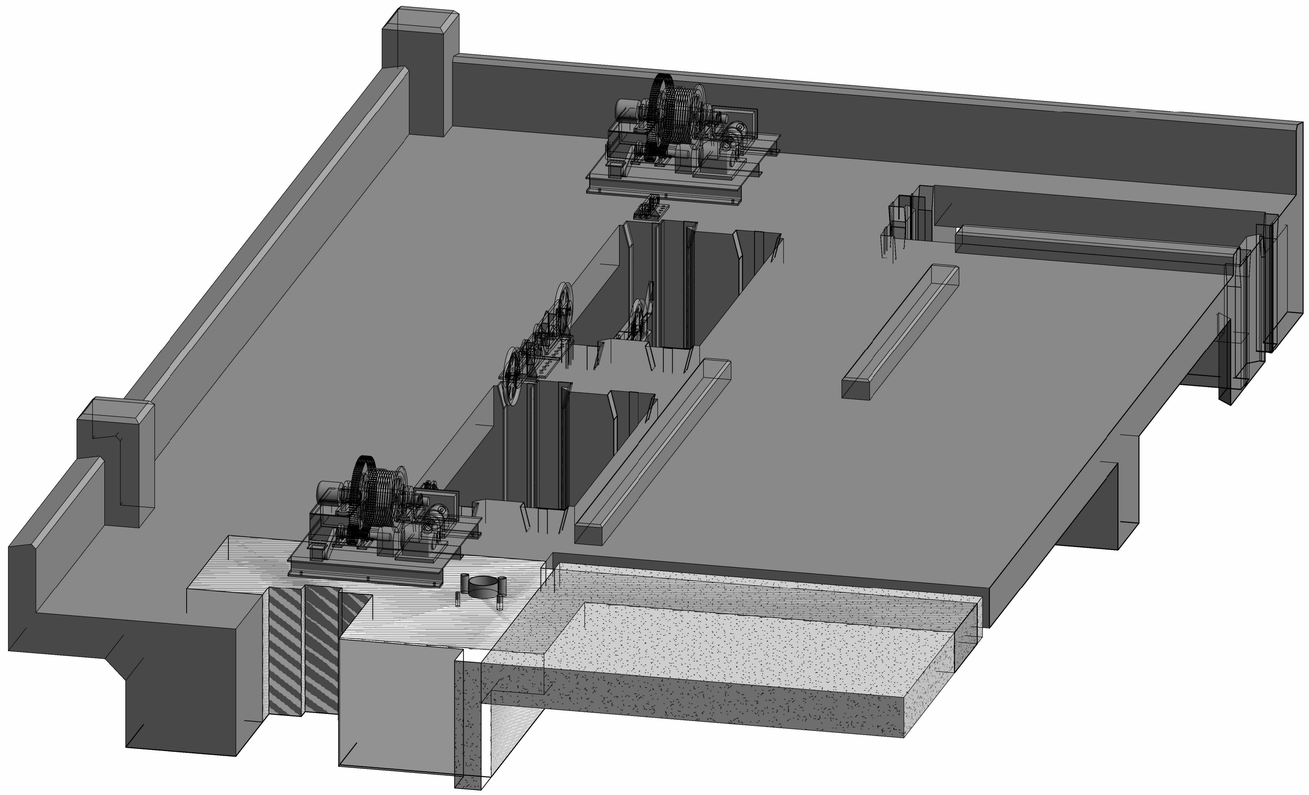
SHEET ID

E-115

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6/2/2026 10:52:23 AM

INTERIM



A1 INSTALL - CENTRAL FISHWAY ENTRANCE ISOMETRIC

SCALE:

PLAN NORTH

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

INSTALL

FLEXABLE CONDUIT

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EF##X#####
CONTRACT NO.:

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DRAWN BY: E. HEDINE
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SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: ANSI D
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CENTRAL FISHWAY ENTRANCE ISOMETRIC VIEW - INSTALL

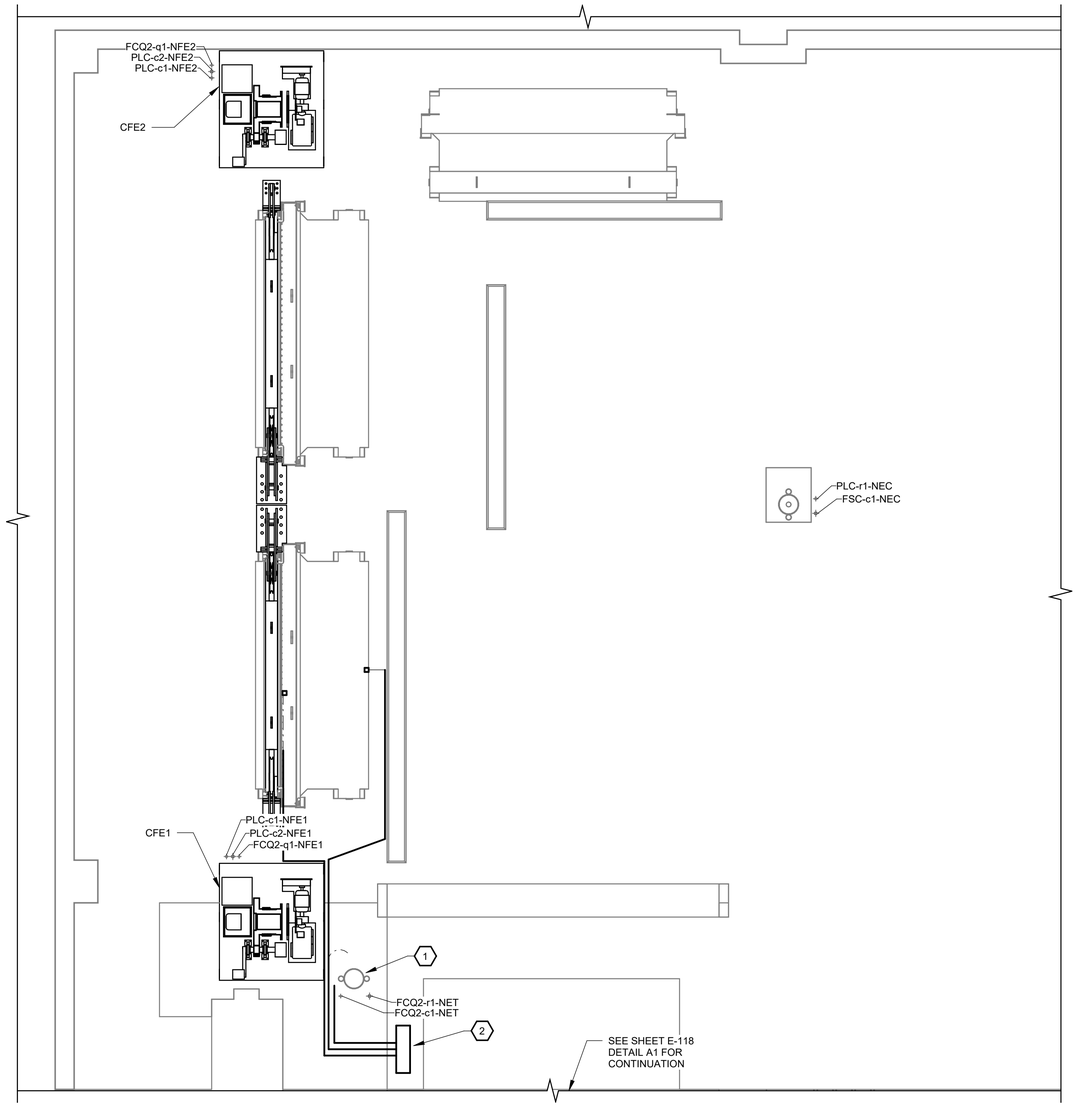
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E-116

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PD: ADOBE PRINT

6/2/2026 10:52:29 AM

INTERIM



PLAN NORTH

0 2' 4' 8'

A1 INSTALL - CENTRAL FISHWAY ENTRANCE PLAN VIEW

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

GENERAL NOTES

1. CURRENT NAMING CONVENTION IS NORTH FISH ENTRANCE (NFE). WILL BE CHANGED TO CENTRAL FISH ENTRANCE (CFE) FOR INSTALL.

KEY NOTES

1. STILLING WELLS WILL CONTAIN RADAR SENSORS USED FOR DETECTING WATER LEVEL. NOTE TO REVIEWER: LOCATIONS ARE APPROXIMATE.

2. NEW LOCAL CONTROL ENCLOSURE. WILL REQUIRE FIBER ROUTED BACK TO CONTROL ROOM. EXACT ROUTING TBD AS OF INTERIM REVIEW.

LEGEND

EXISTING

INSTALL

RMC CONDUIT

FLEXABLE CONDUIT

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
		06/03/2026

DESIGNED BY: E. HEDINE
DRAWN BY: E. HEDINE
CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: D
ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EF##X#####
CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CENTRAL FISHWAY ENTRANCE - INSTALL

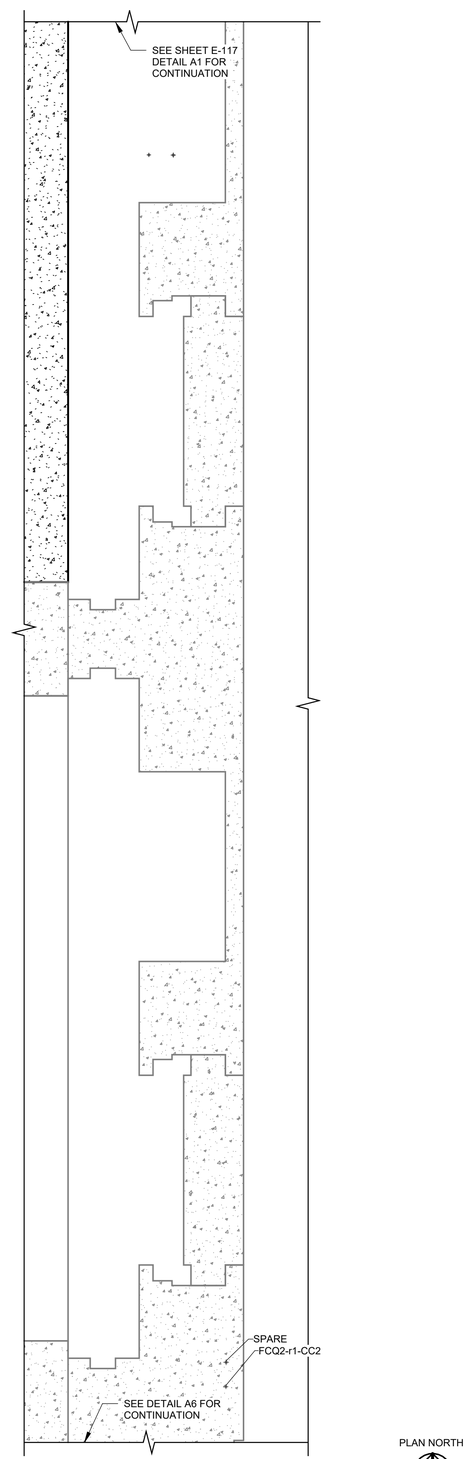
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E-117

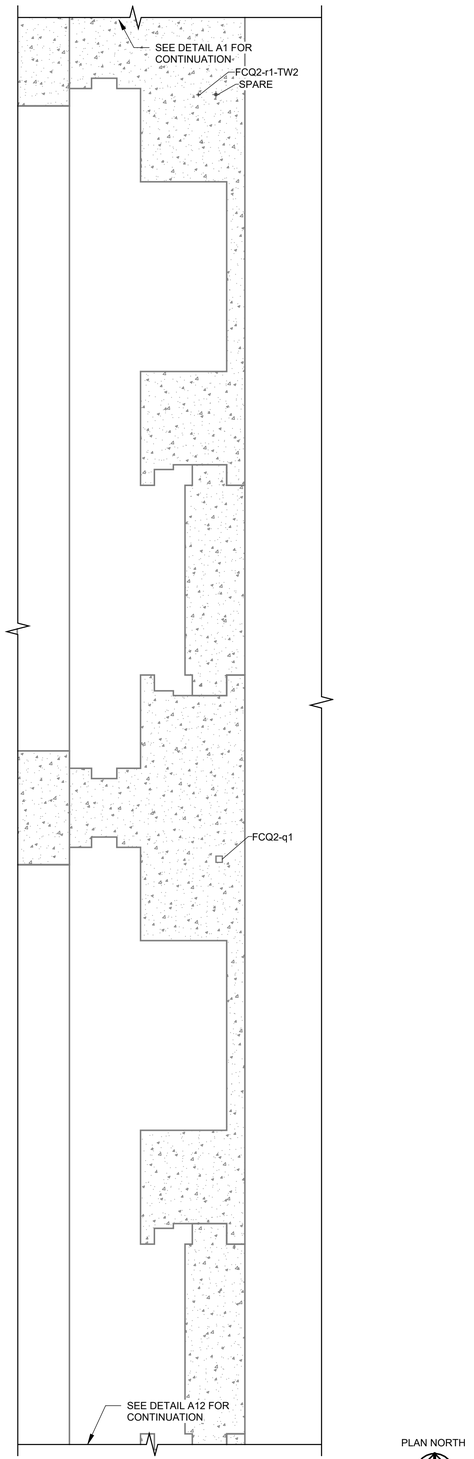
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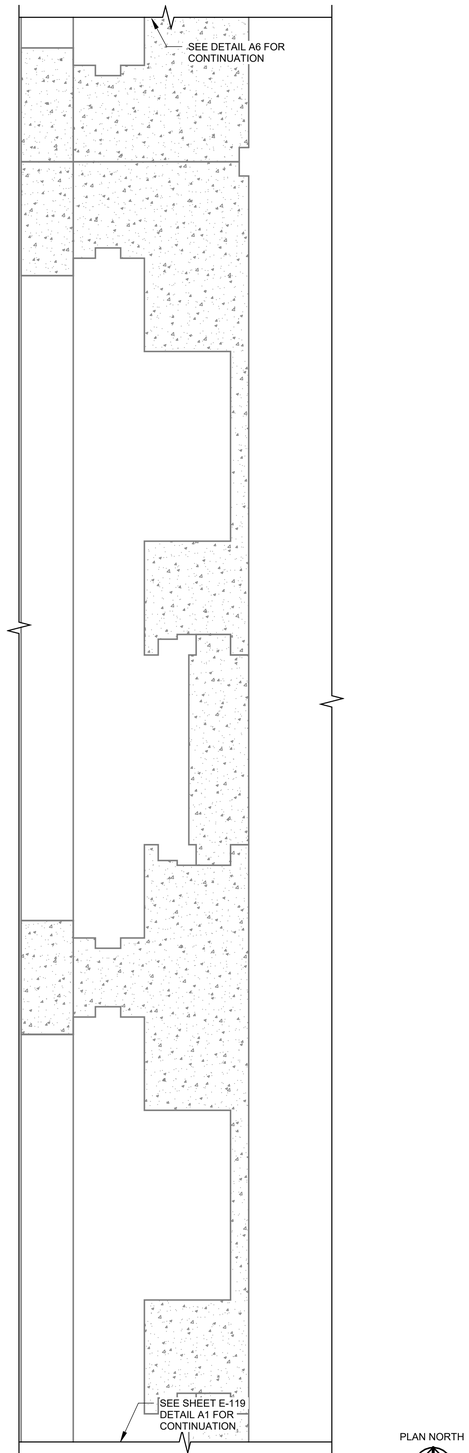
INTERIM



A1 INSTALL - TAILRACE DECK BAY 6
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



A6 INSTALL - TAILRACE DECK BAY 5
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



A12 INSTALL - TAILRACE DECK BAY 4
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

INSTALL

FLEXABLE CONDUIT

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

DESIGNED BY: E. HEDINE
DRAWN BY: E. HEDINE
CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
SIZE: D
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ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EF##X#####
CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CENTRAL TAILRACE DECK - INSTALL

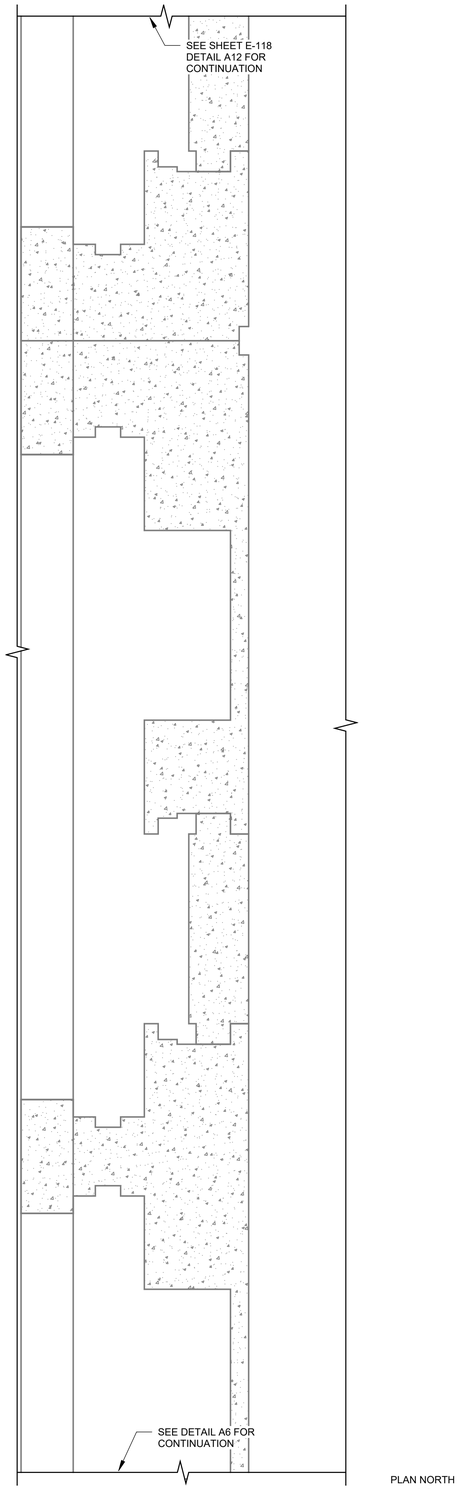
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E-118

INTERIM

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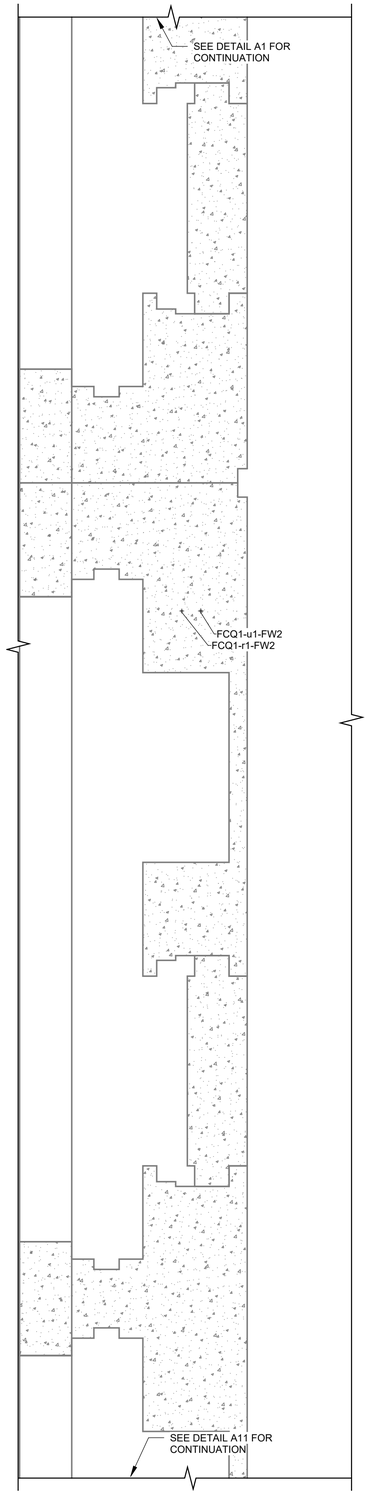
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A1 INSTALL - TAILRACE DECK BAY 3
SCALE: 1/4" = 1'-0"

PLAN NORTH

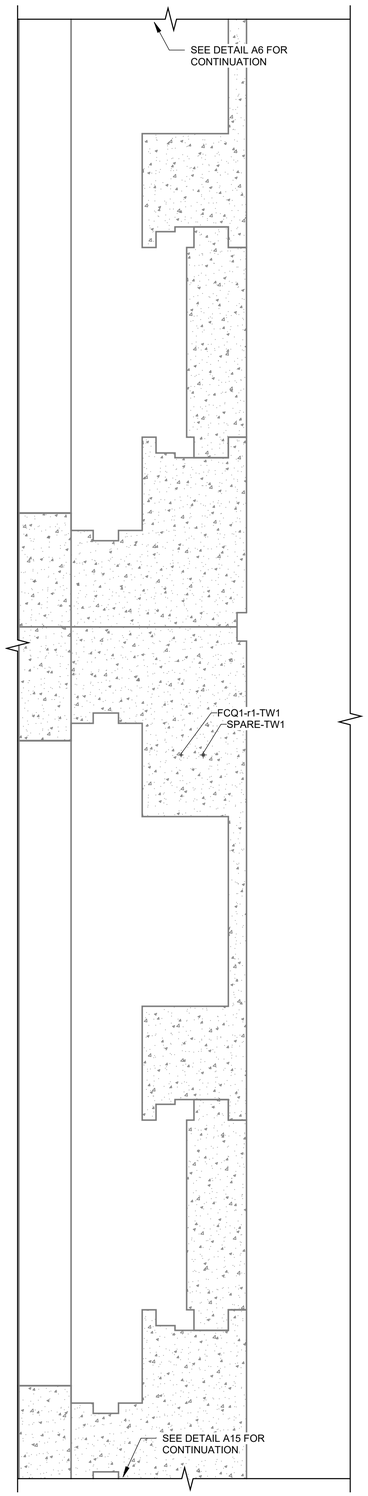
0 2' 4' 8'



A6 INSTALL - TAILRACE DECK BAY 2
SCALE: 1/4" = 1'-0"

PLAN NORTH

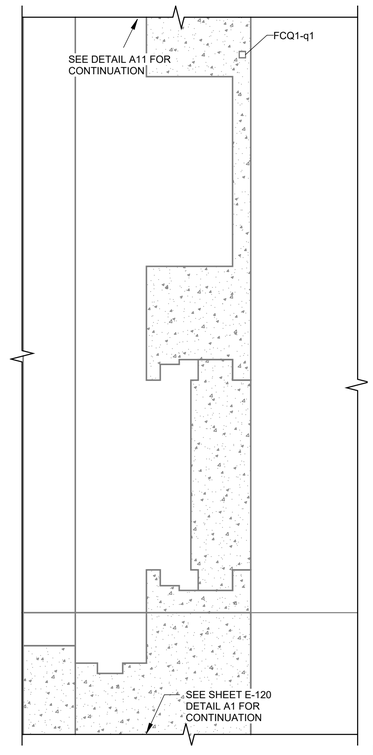
0 2' 4' 8'



A11 INSTALL - TAILRACE DECK BAY 1
SCALE: 1/4" = 1'-0"

PLAN NORTH

0 2' 4' 8'



A16 INSTALL - TAILRACE DECK SOUTH
SCALE: 1/4" = 1'-0"

PLAN NORTH

0 2' 4' 8'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

INSTALL

FLEXABLE CONDUIT

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
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CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
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ISSUE DATE: MMMM/MMMM YYYY
SOLICITATION NO.: W912EF##X####
CONTRACT NO.:
FILE NUMBER:

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WALLA WALLA DISTRICT
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WALLA WALLA, WA 99362

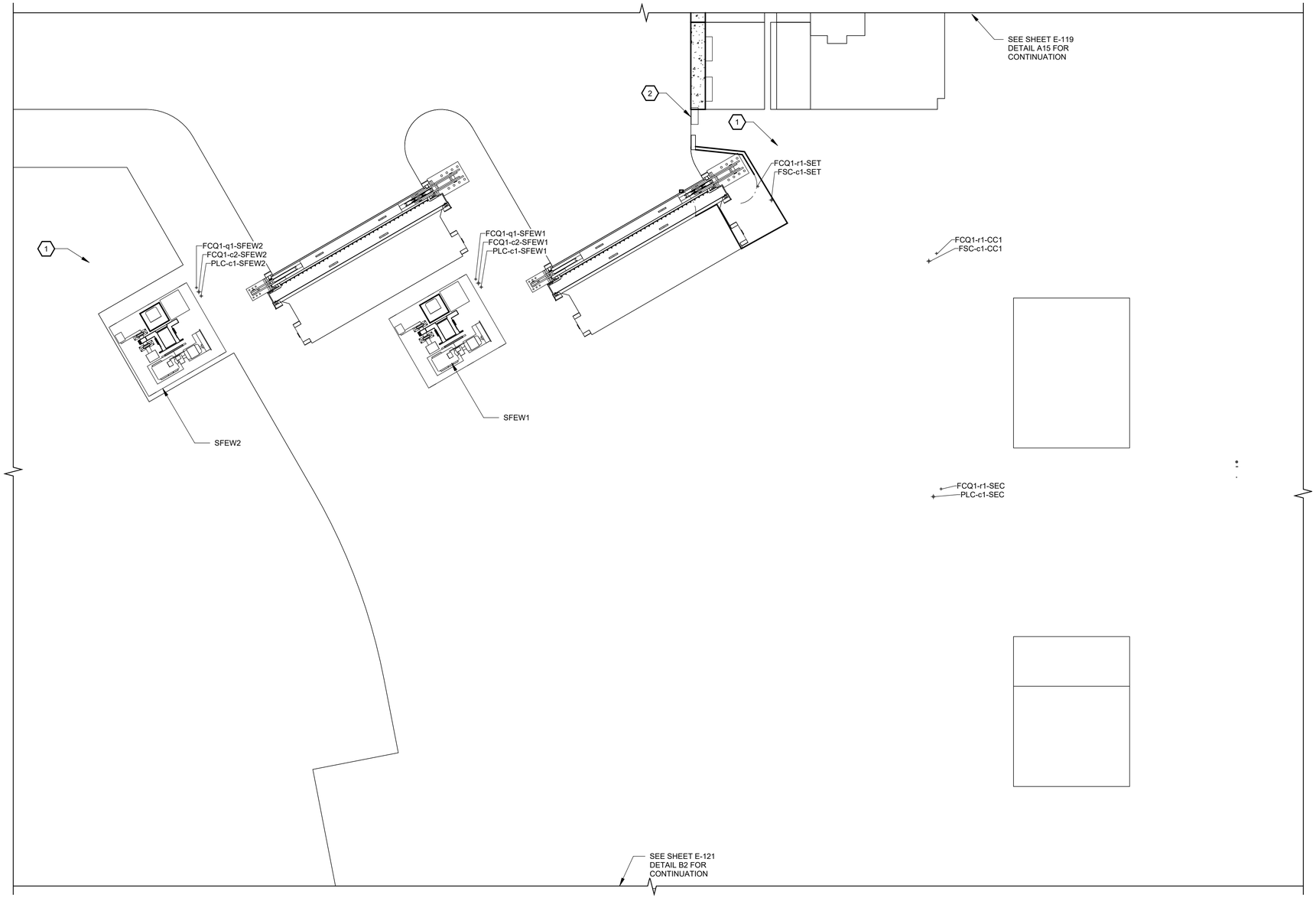
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH TAILRACE DECK - INSTALL

SHEET ID

E-119

INTERIM



A1 INSTALL - SOUTH FISHWAY ENTRANCE PLAN VIEW

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

KEY NOTES

1. STILLING WELLS WILL CONTAIN RADAR SENSORS USED FOR DETECTING WATER LEVEL. NOTE TO REVIEWER: LOCATIONS ARE APPROXIMATE.

2. NEW LOCAL CONTROL ENCLOSURE WILL REQUIRE FIBER ROUTED BACK TO CONTROL ROOM. EXACT ROUTING TBD AS OF INTERIM REVIEW.

LEGEND

EXISTING

INSTALL

FLEXABLE CONDUIT

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
	06/03/2026	

DESIGNED BY: E. HEDINE
DRAWN BY: E. HEDINE
CHECKED BY: S. SCHEIFF
SUBMITTED BY: LEVI VAN STEDUM, PE
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ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EF##X####
CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISHWAY ENTRANCE - INSTALL

SHEET ID

E-120

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INTERIM

GENERAL NOTES

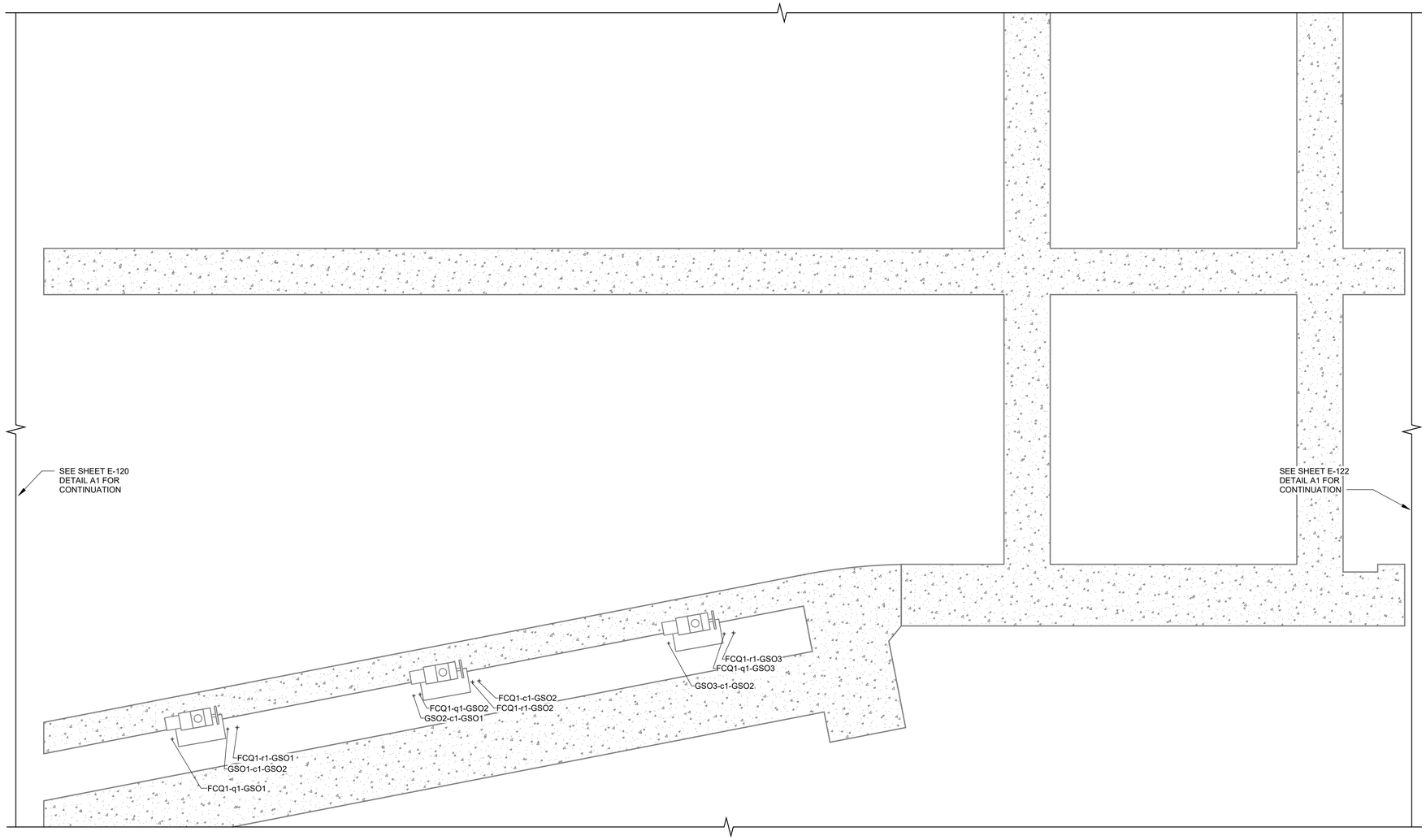
1.

KEY NOTES

1.

LEGEND

- EXISTING
- INSTALL
- FLEXABLE CONDUIT



PLAN NORTH

0 2' 4' 8'

A1 INSTALL - TAILRACE GSO1-3

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

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
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DRAWN BY: E. HEDINE
CHECKED BY: S. SCHEIFF
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ISSUE DATE: MMMMMMMM YYYY
SOLICITATION NO.: W912EF##X####
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U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH TAILRACE DECK - INSTALL

SHEET ID

E-121

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PD: ADOBE PRINT
DS: DIROOTS

6/2/2026 10:52:35 AM

INTERIM

GENERAL NOTES

1. THREE CONDUITS COME FROM THE POWERHOUSE AND INTO THE CONDUIT PIT THAT SNAKES AROUND THE FISH LADDER. INSTALL UP TO THE FIRST POINT OF DEMARCATION AS INDICATED.

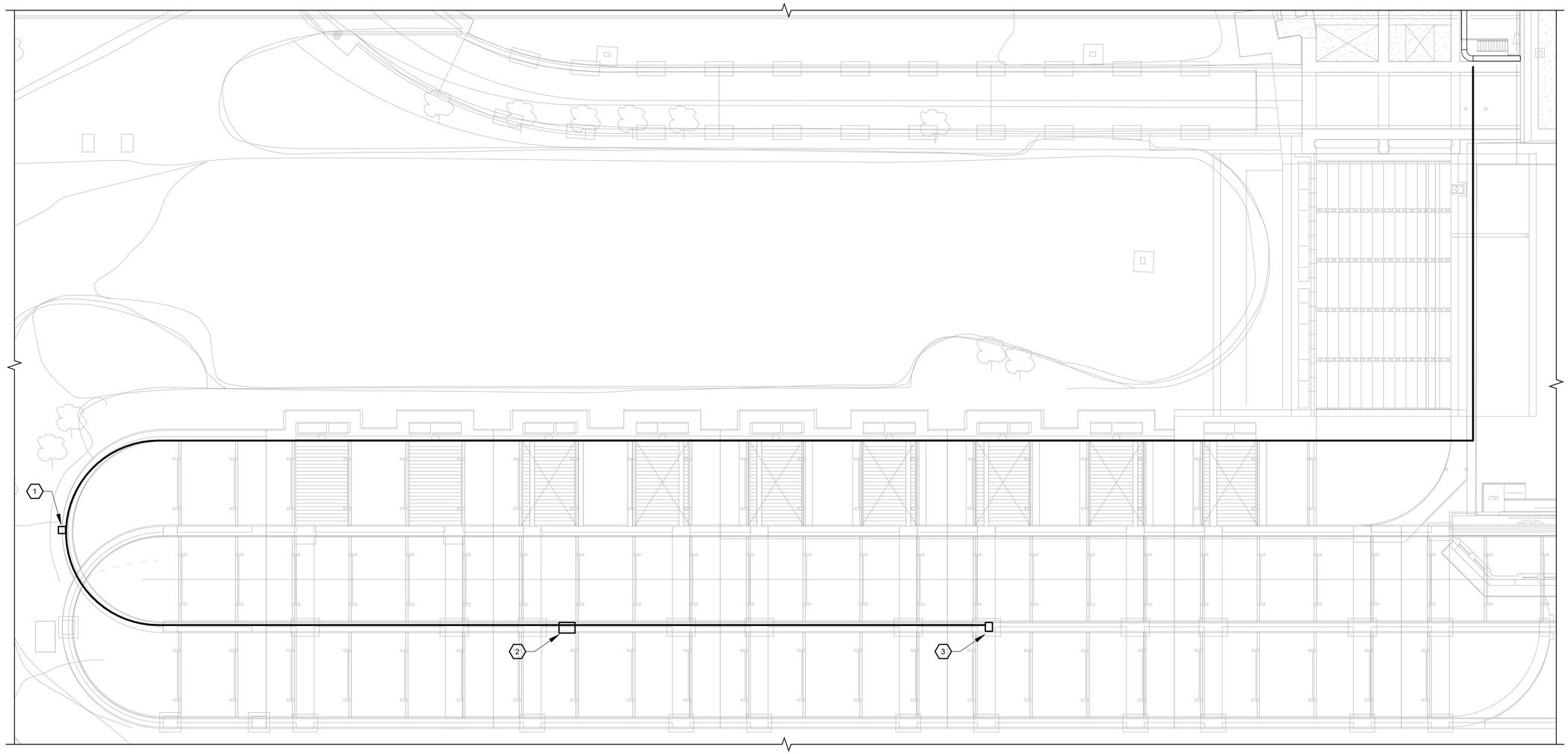
3. EXACT LOCATION OF EACH EQUIPMENT IS ESTIMATED. CONTRACTOR TO VERIFY.

KEY NOTES

1. ONE OF THREE CONDUITS END AT THIS JUNCTION BOX.

2. FR6 HAS A DISCONNECT. INSTALL ALL CABLE UP UNTIL THIS DISCONNECT.

3. NOTE TO REVIEWER: NEED TO VERIFY SOURCE OF POWER FOR 480VAC RECEPTACLES.



PLAN NORTH

0 10' 20' 40'

A1 INSTALL - GSL ROUTING
SCALE: 1/16" = 1'-0"

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
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SUBMITTED BY: LEVI VAN STEDUM, PE
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ISSUE DATE: MMMMMMMM YYYY
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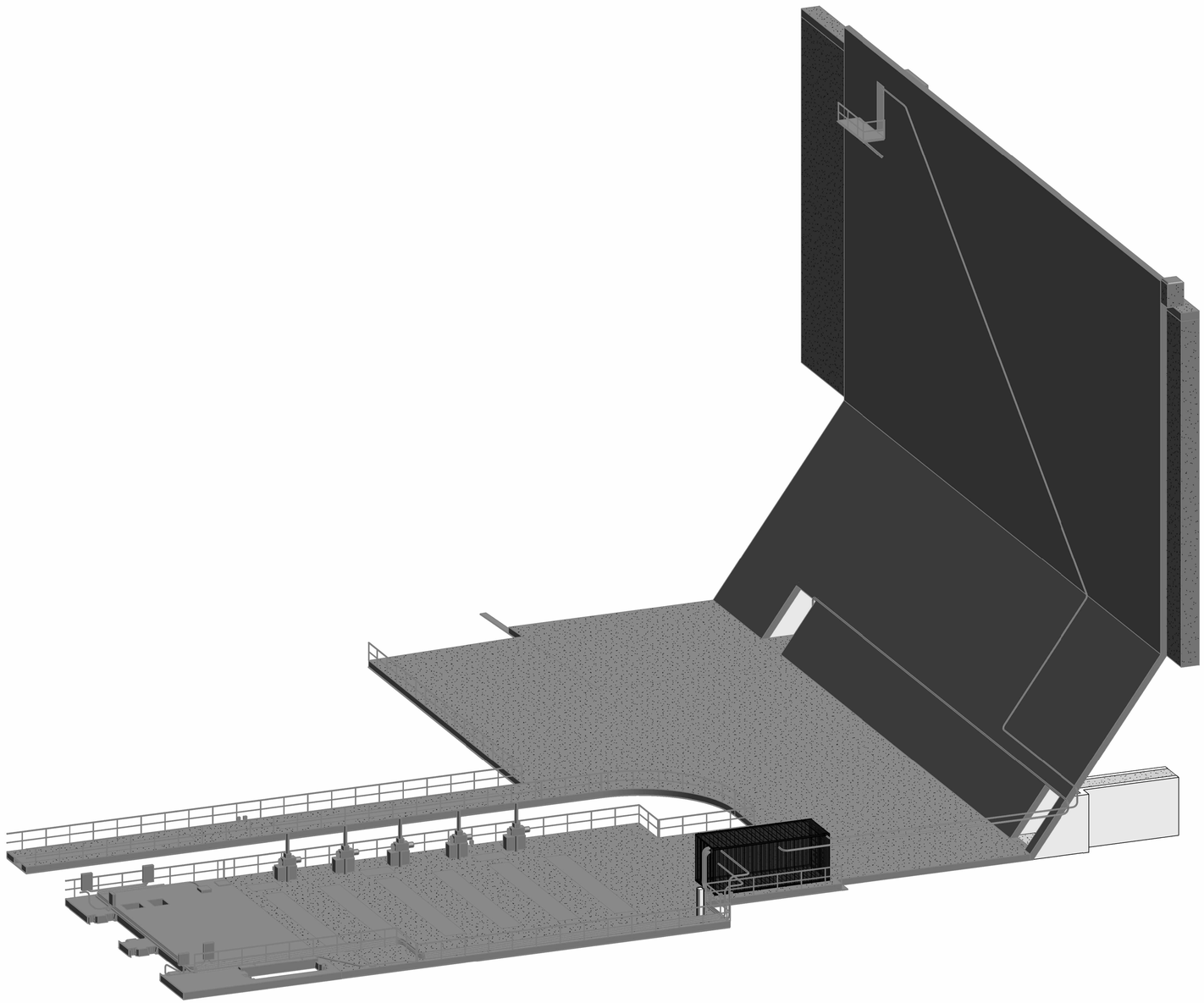
U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

SOUTH FISH LADDER - INSTALL

SHEET ID
E-122

INTERIM



A1 INSTALL - NORTH FISHWAY ENTRANCE ISOMETRIC
SCALE:

PLAN NORTH

0 5' 10' 20'

GENERAL NOTES

1.

KEY NOTES

1.

LEGEND

EXISTING

INSTALL

FLEXABLE CONDUIT

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
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DRAWN BY: E. HEDINE	SOLICITATION NO.: W912EF##XX####
CHECKED BY: S. SCHEIFF	CONTRACT NO.:
SUBMITTED BY: LEVI VAN STEDUM, PE	
SIZE: ANSI D	FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

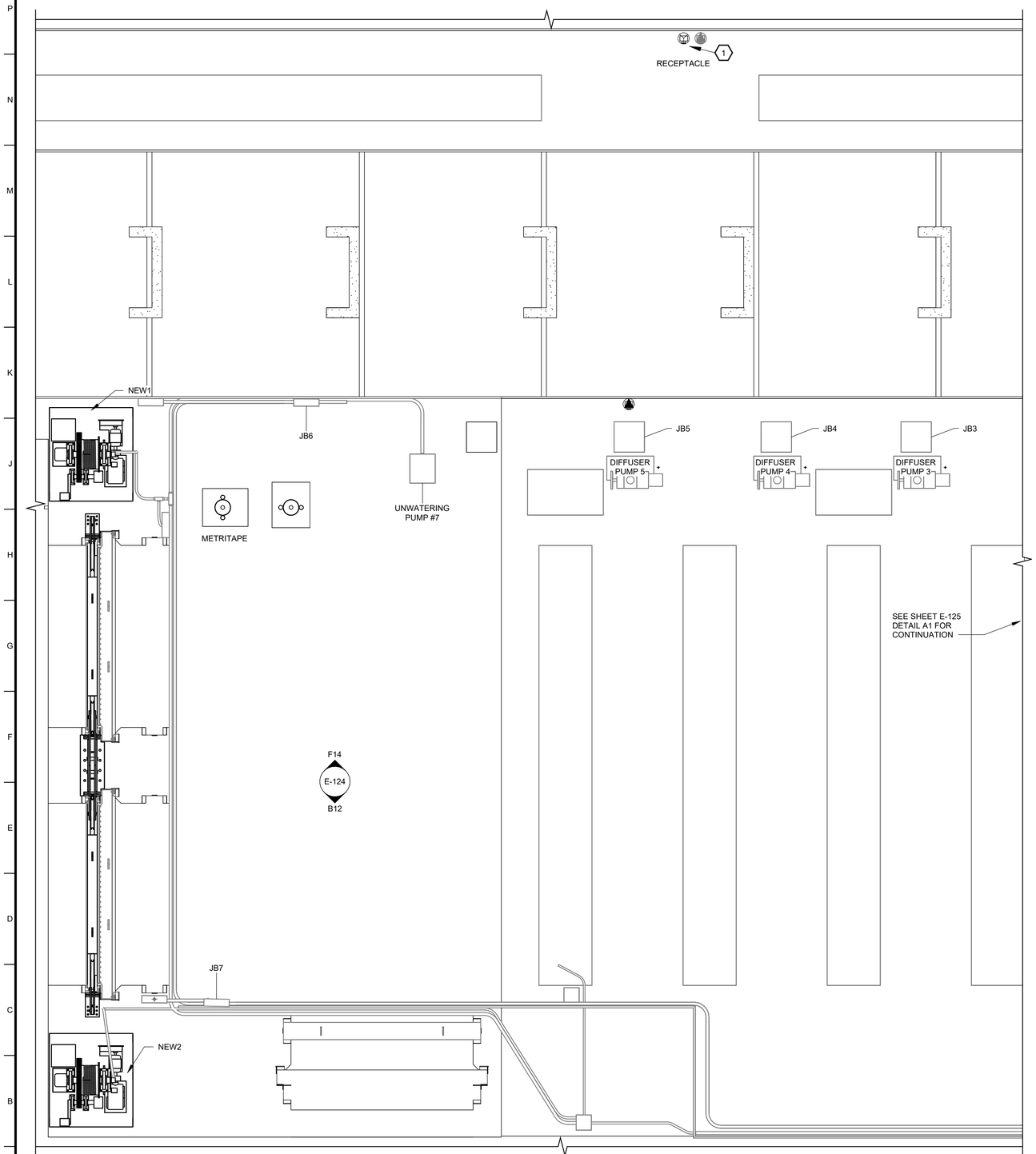
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

NORTH FISHWAY ENTRANCE INSTALLATION
ISOMETRIC VIEW

SHEET ID

E-123

INTERIM

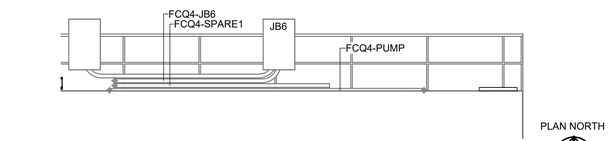


A1 INSTALL - NORTH FISHWAY ENTRANCE PLAN VIEW

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

PLAN NORTH

0 2' 4' 8'

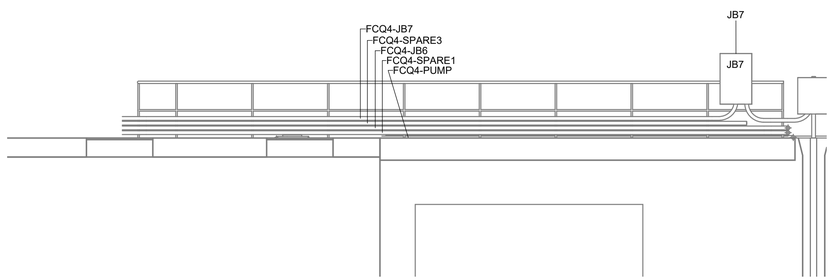


F14 INSTALL - ELEVATION VIEW NORTH SIDE

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

PLAN NORTH

0 2' 4' 8'



B12 INSTALL - ELEVATION VIEW SOUTH SIDE

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

PLAN NORTH

0 2' 4' 8'

GENERAL NOTES

1. CURRENT NAMING CONVENTION IS ENTRANCE WEIR (EW). NEW NAMING CONVENTION WILL BE NORTH ENTRANCE WEIR (NEW) FOR INSTALL.

KEY NOTES

1. INSTALL ALL CABLES UNTIL THE FIRST POINT OF DEMARCATION AS IDENTIFIED. ALL CABLES PAST THIS POINT ARE TO REMAIN IN PLACE.

2. ULTRA SONIC SENSOR

LEGEND

EXISTING

INSTALL

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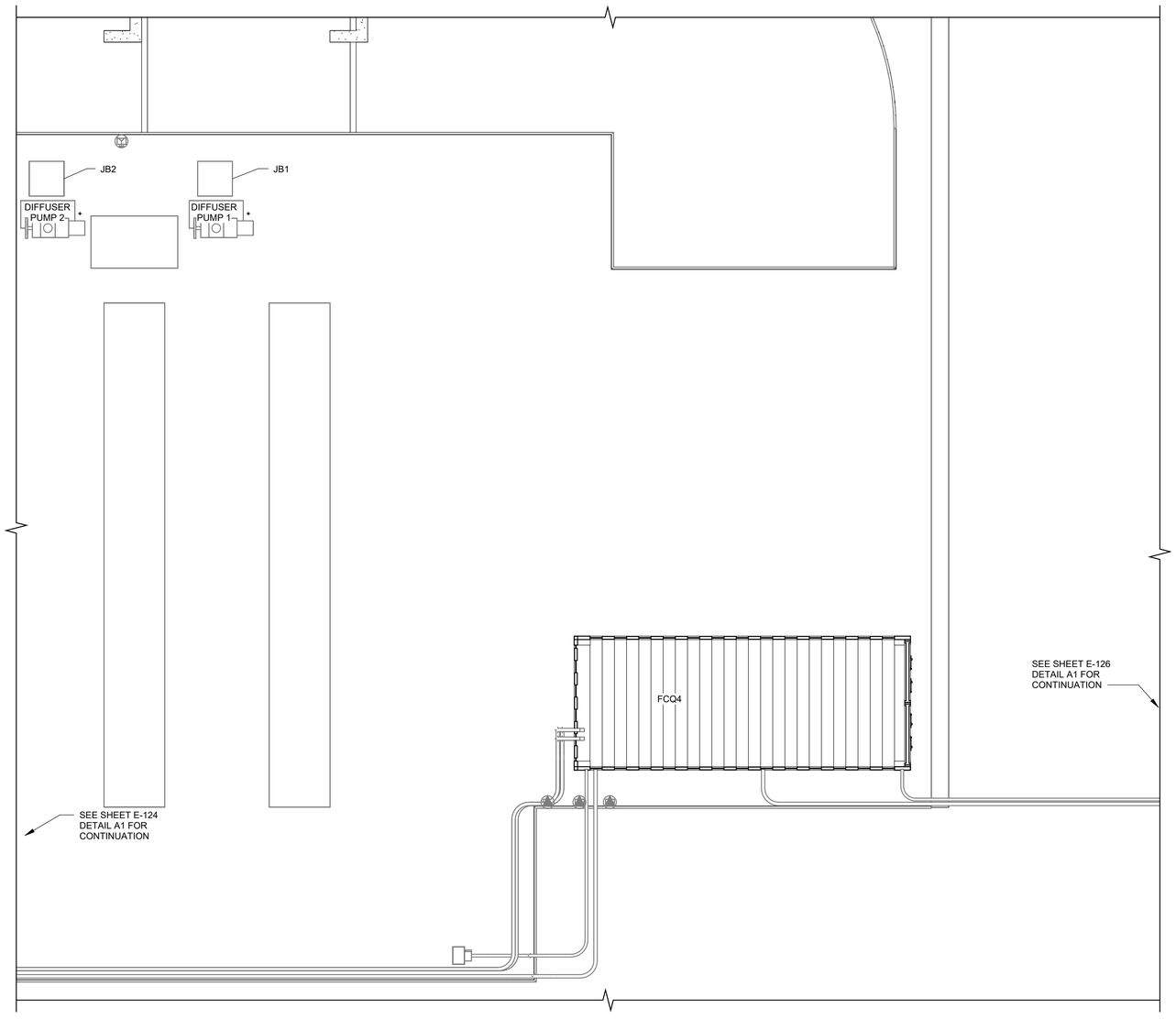
ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

NORTH FISHWAY ENTRANCE - INSTALL

SHEET ID

E-124

INTERIM



A1 INSTALL - NORTH FISHWAY ENTRANCE PLAN VIEW

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

GENERAL NOTES

1. NOTE TO REVIEWER: CONTROLS WITHIN FCQ4 NEED TO BE VERIFIED. WILL COMPLETE BY FINAL.

KEY NOTES

1. AIR-RANGER, STILL HAS POWER. USED WITH ULTRASONIC SENSORS.
2. ULTRA SONIC SENSOR

LEGEND

- EXISTING
- INSTALL
- FLEXABLE CONDUIT

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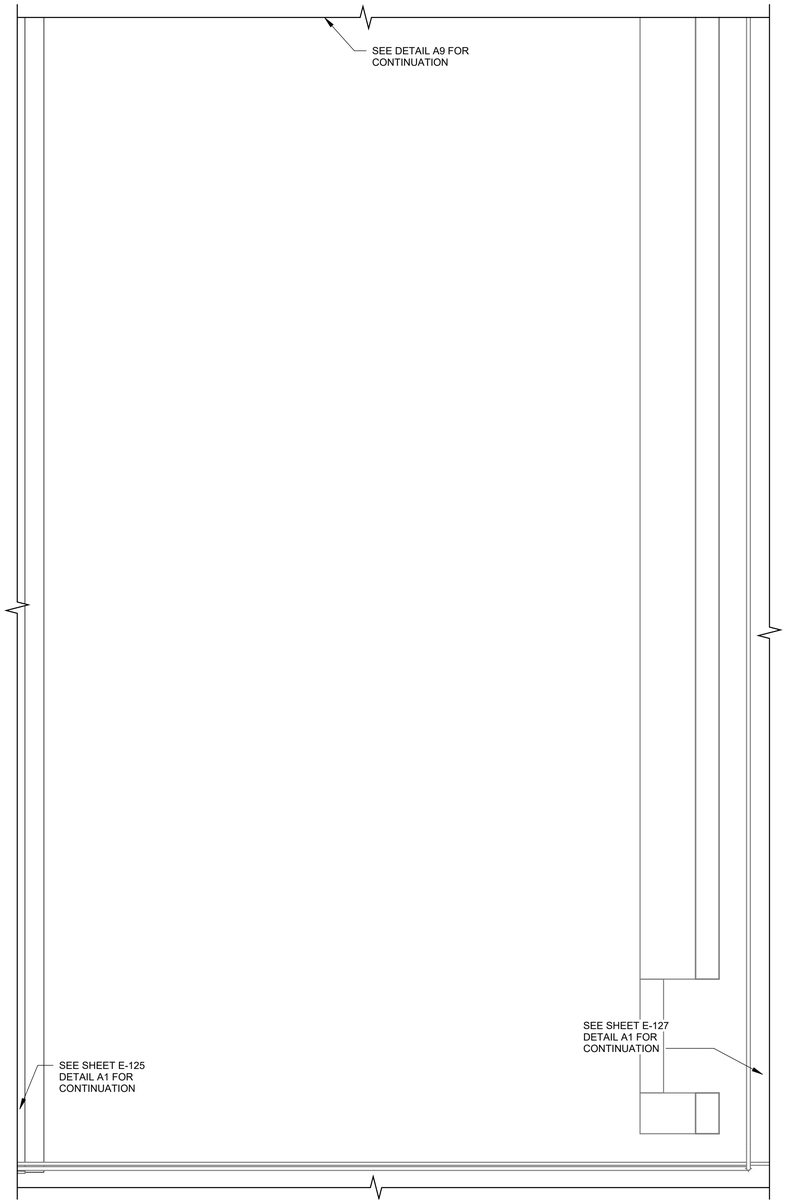
ICE HARBOR LOCK AND DAM
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ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

NORTH FISHWAY ENTRANCE - INSTALL

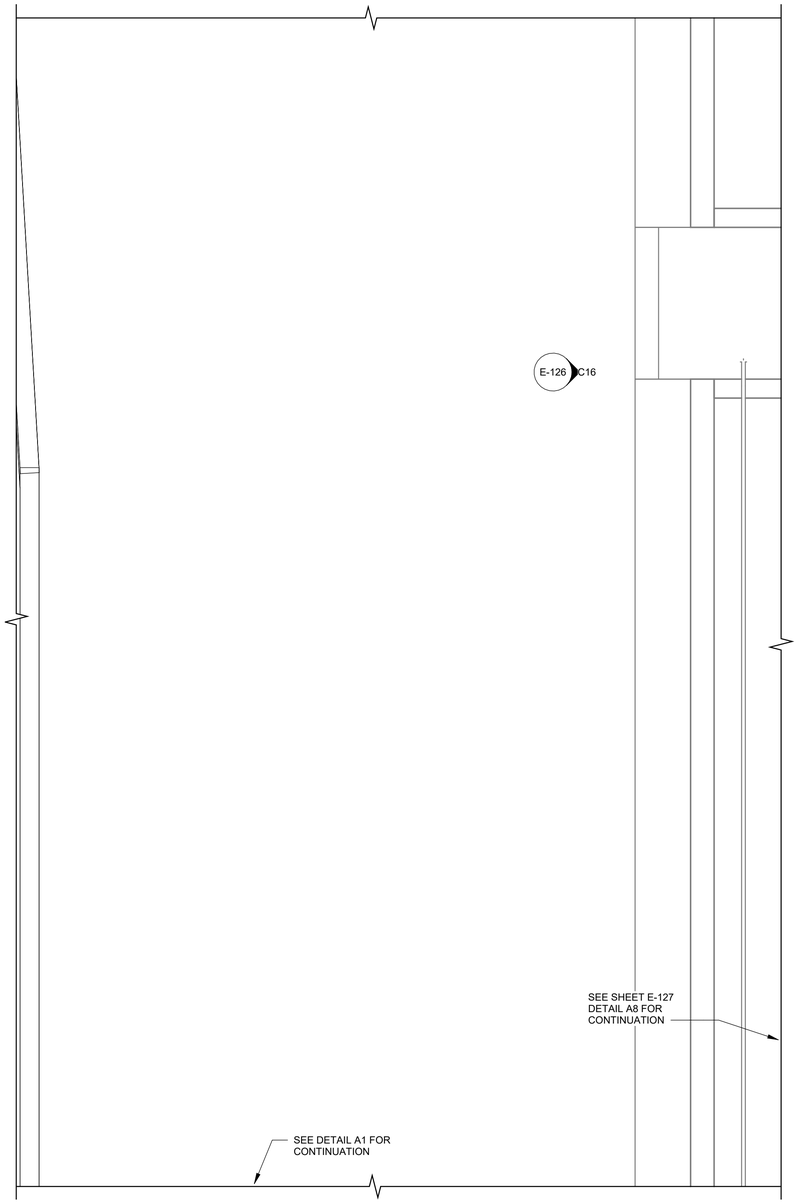
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E-125

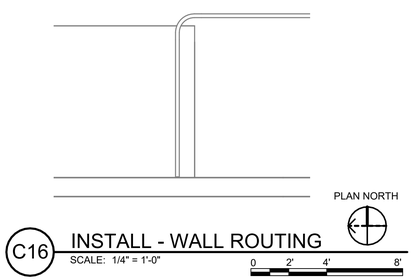
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A1 INSTALL - NORTH FISHWAY ENTRANCE WALL ROUTING
SCALE: 1/4" = 1'-0"



A9 INSTALL - NORTH FISHWAY ENTRANCE WALL ROUTING CONT.
SCALE: 1/4" = 1'-0"



C16 INSTALL - WALL ROUTING
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1.WALL ROUTING TO BE VERIFIED IN PLAN IN HAND.

KEY NOTES

1.

LEGEND

EXISTING

INSTALL

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

NORTH FISHWAY ENTRANCE WALL ROUTING - INSTALL

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E-126

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GENERAL NOTES

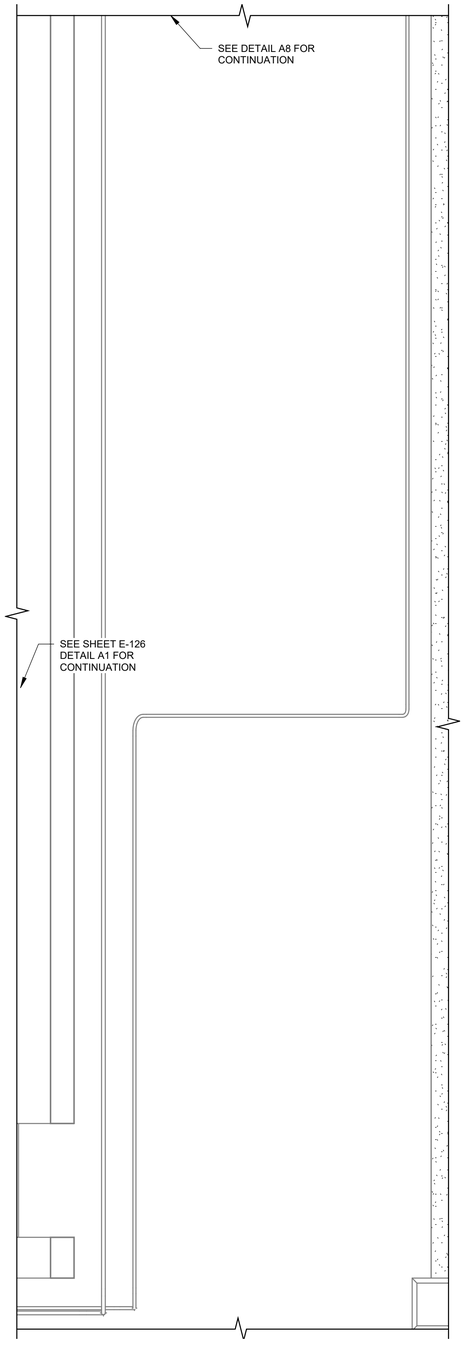
1.

KEY NOTES

1.

LEGEND

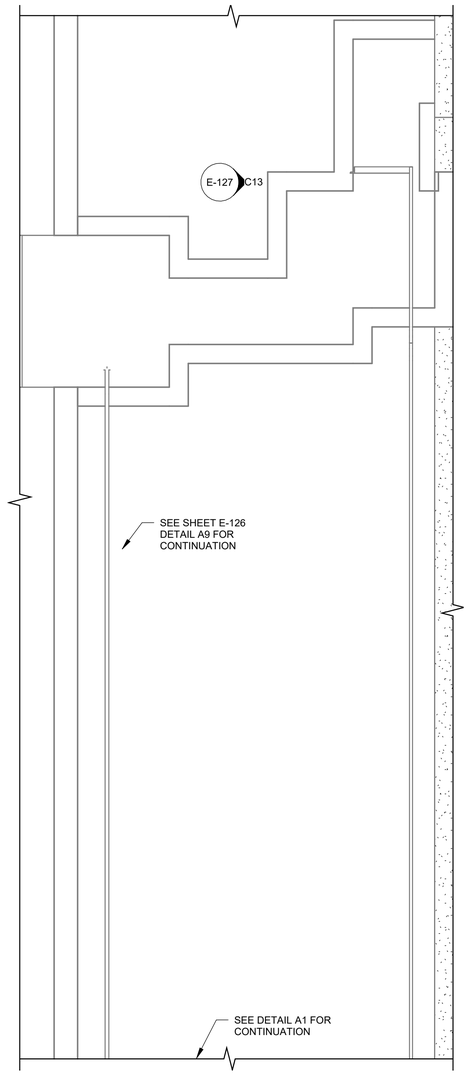
- EXISTING
- INSTALL
- FLEXABLE CONDUIT



A1 INSTALL - NORTH ENTRANCE FIBER ROUTING
SCALE: 1/4" = 1'-0"

PLAN NORTH

0 2' 4' 8'



A8 INSTALL - NORTH ENTRANCE FIBER ROUTING CONT.
SCALE: 1/4" = 1'-0"

PLAN NORTH

0 2' 4' 8'

C13 INSTALL - FIBER ROUTING ELEVATION VIEW
SCALE: 1/4" = 1'-0"

PLAN NORTH

0 2' 4' 8'

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

NORTH FISHWAY ENTRANCE FIBER ROUTING - INSTALL

SHEET ID

E-127

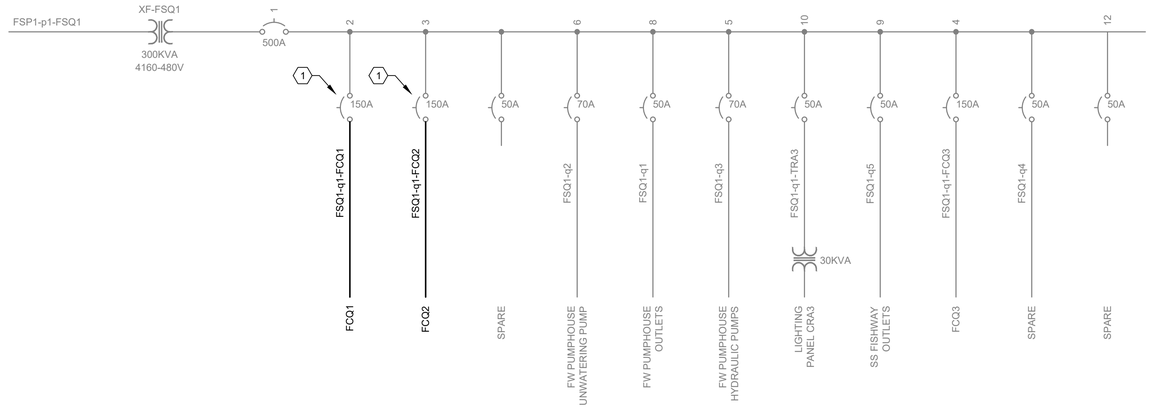
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LEGEND

EXISTING
INSTALLATION

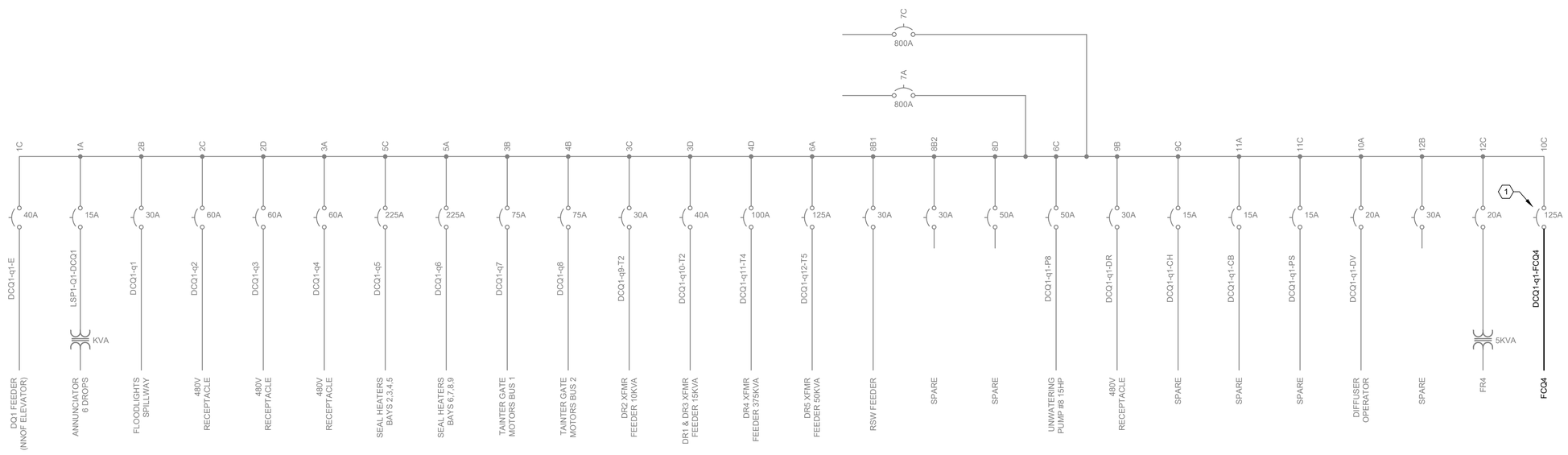
SHEET KEYNOTES

1. REUSE EXISTING BREAKERS.



H1 FSQ1 ONE LINE DIAGRAM INSTALL

SCALE: NTS



A1 DCQ1 ONE LINE DIAGRAM INSTALL

SCALE: NTS

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

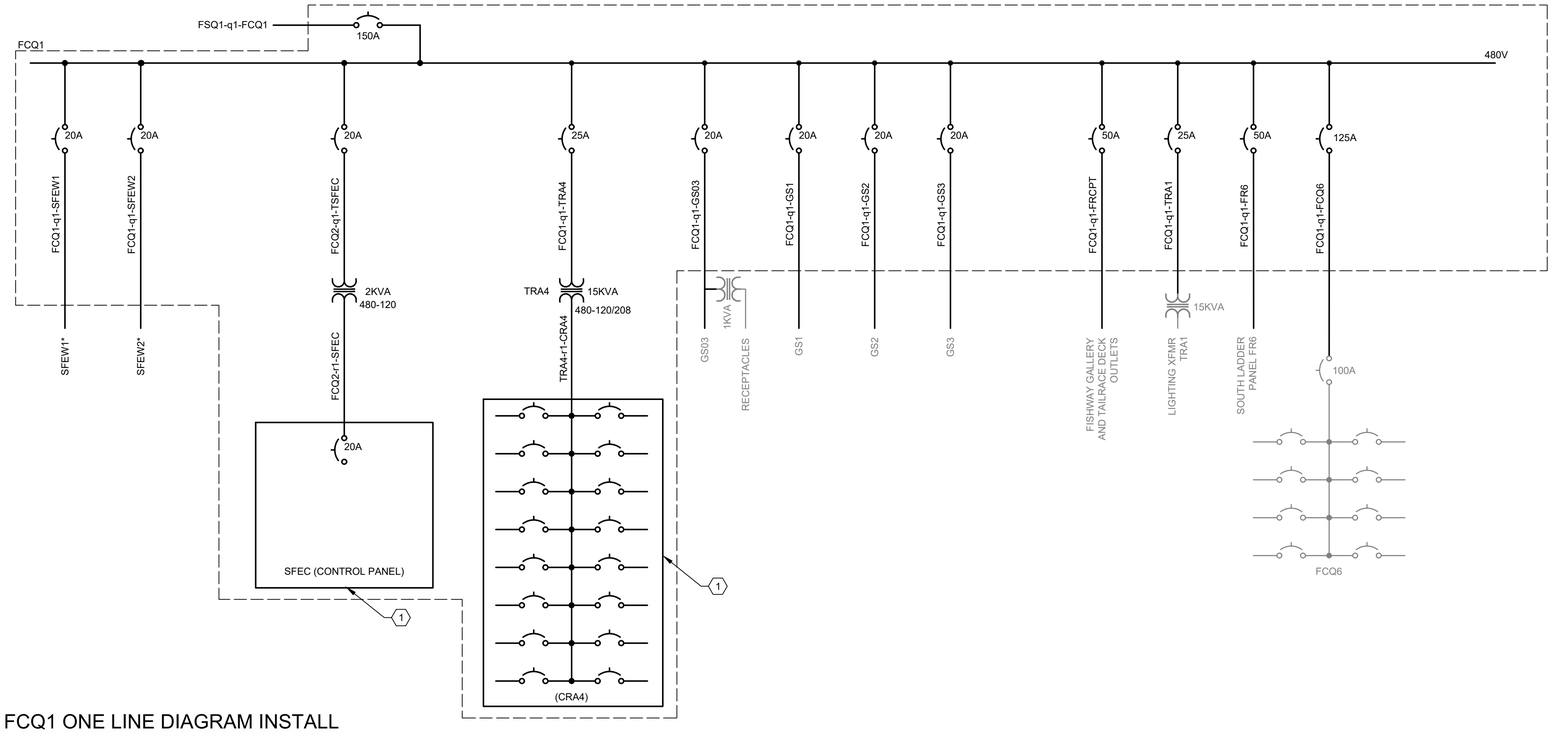
INSTALL ONE LINE FSQ1 AND DCQ1

SHEET ID

E-601

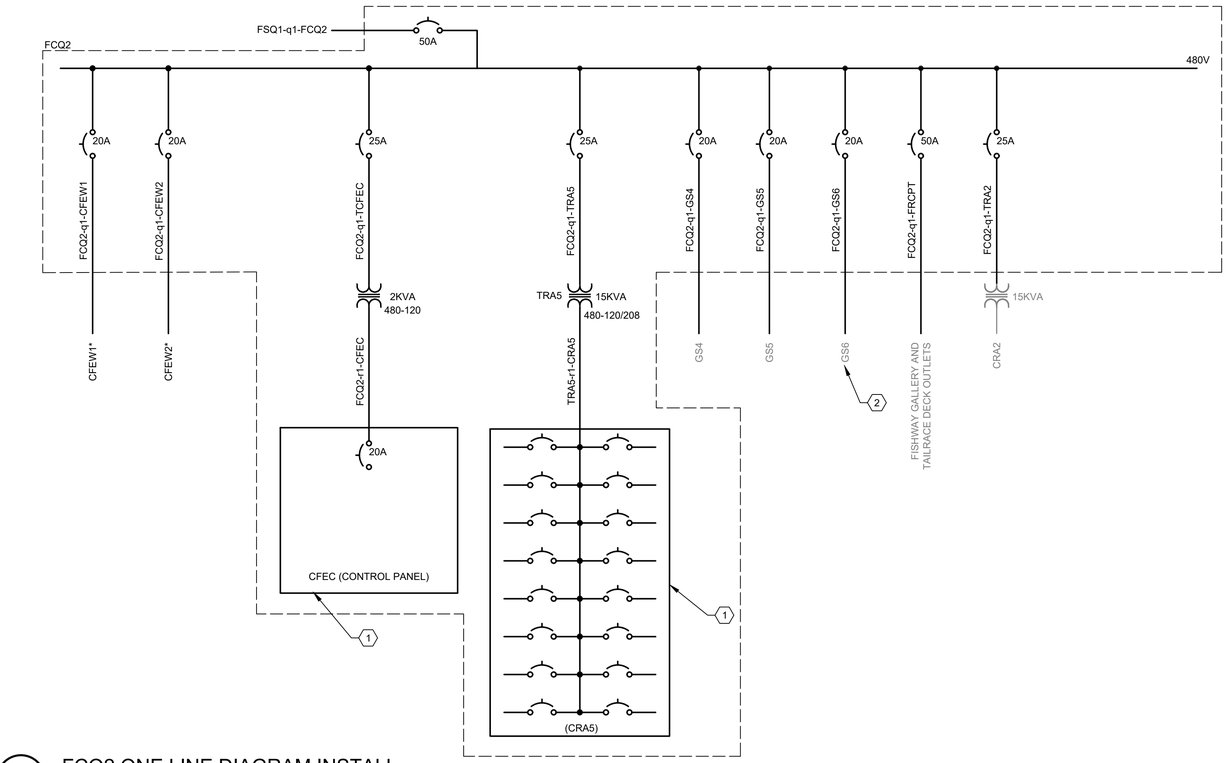
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H1 FCQ1 ONE LINE DIAGRAM INSTALL

SCALE: NTS



A9 FCQ2 ONE LINE DIAGRAM INSTALL

SCALE: NTS

GENERAL NOTES

1. INSTALL ALL LOADS TO THE FIRST POINT OF TERMINATION. IF A LOAD IS MARKED WITH A " * " REPLACE THE ENTIRE CIRCUIT.

SHEET KEYNOTES

1. SEE E-604 FOR MORE DETAIL.
2. GS6 HAS BEEN REMOVED. INSTALL NEW CIRCUIT AND MOUNT IN NEW JUNCTION BOX. LEAVE LOOPED SPARE CONDUCTORS FOR FUTURE USE.

LEGEND

EXISTING
INSTALLATION

SFEW1	SOUTH FISHWAY ENTRANCE WEIR GATE ONE
SFEW2	SOUTH FISHWAY ENTRANCE WEIR GATE TWO
GS03	SOUTH ENTRANCE SLUICEGATES
GS1	COLLECTION CHANNEL SLUICEGATE ONE
GS2	COLLECTION CHANNEL SLUICEGATE TWO
GS3	COLLECTION CHANNEL SLUICEGATE THREE
CFEW1	CENTRAL FISHWAY ENTRANCE WEIR GATE ONE
CFEW2	CENTRAL FISHWAY ENTRANCE WEIR GATE TWO
GS4	COLLECTION CHANNEL SLUICEGATE FOUR
GS5	COLLECTION CHANNEL SLUICEGATE FIVE
GS6	COLLECTION CHANNEL SLUICEGATE SIX

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

INSTALL ONE LINE FCQ1 AND FCQ2

SHEET ID

E-602

INTERIM

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GENERAL NOTES

1. INSTALL ALL LOADS TO THE FIRST POINT OF TERMINATION. IF A LOAD IS MARKED WITH A " * " REPLACE THE ENTIRE CIRCUIT.

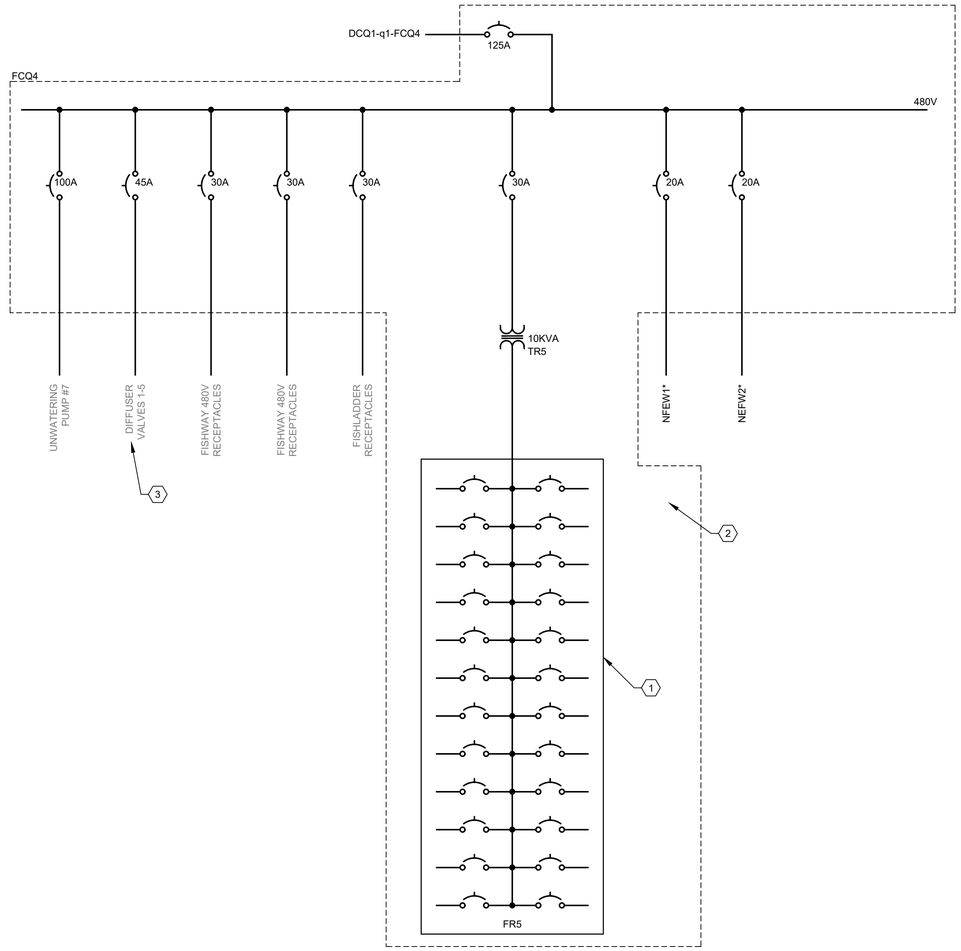
SHEET KEYNOTES

1. SEE E-605 FOR MORE DETAIL.
2. PLC AND HMI MOUNTED IN MCC.
3. DIFFUSER VALVE MOTOR #1 IS NOT OPERATIONAL. INSTALL CONDUCTORS AND CAP THEM OFF.

LEGEND

EXISTING
INSTALLATION

NFEW1 NORTH FISHWAY ENTRANCE WEIR ONE
NFEW2 NORTH FISHWAY ENTRANCE WEIR TWO
NFEC NORTH FISHWAY ENTRANCE CONTROL



A9 FCQ4 ONE LINE DIAGRAM INSTALL
SCALE: NTS

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

INSTALL ONE LINE FCQ4

SHEET ID
E-603

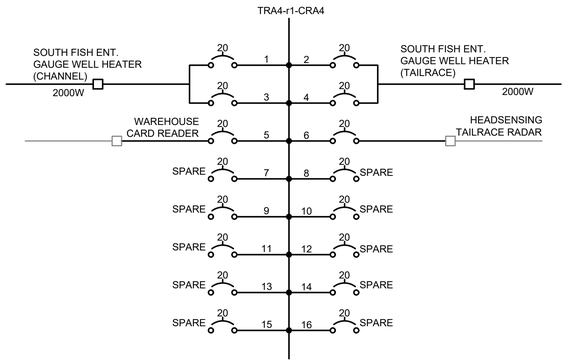
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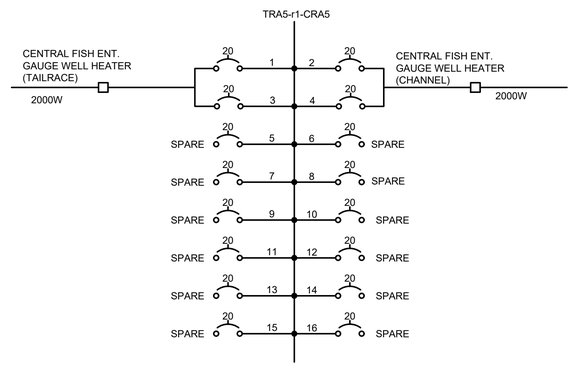
LEGEND

EXISTING
INSTALLATION

SFEW1	SOUTH FISHWAY ENTRANCE WEIR ONE
SFEW2	SOUTH FISHWAY ENTRANCE WEIR TWO
SFEC	SOUTH FISHWAY ENTRANCE CONTROL
CFEW1	CENTRAL FISHWAY ENTRANCE WEIR ONE
CFEW2	CENTRAL FISHWAY ENTRANCE WEIR TWO
CFEC	CENTRAL FISHWAY ENTRANCE CONTROL



A1 CRA4 PANEL ONE LINE DIAGRAM INSTALLATION
SCALE: NTS



A14 CRA5 PANEL ONE LINE DIAGRAM INSTALLATION
SCALE: NTS

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

INSTALL FCQ1 AND FCQ2 PANELS

SHEET ID

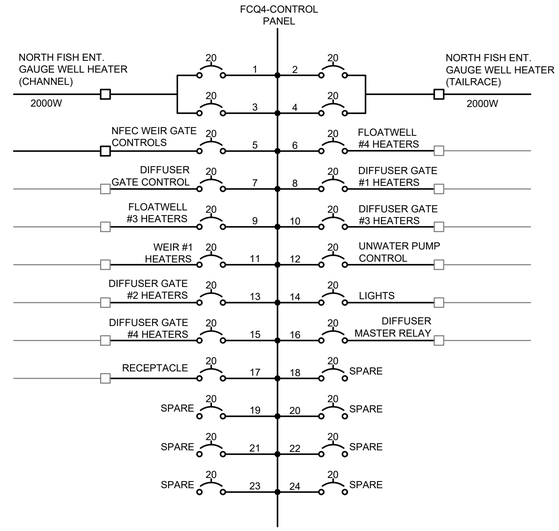
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LEGEND

EXISTING	
INSTALLATION	
NFEW1	NORTH FISHWAY ENTRANCE WEIR ONE
NFEW2	NORTH FISHWAY ENTRANCE WEIR TWO
NFEC	NORTH FISHWAY ENTRANCE CONTROL



A13 FCQ4 CONTROL PANEL ONE LINE DIAGRAM INSTALLATION

SCALE: NTS

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

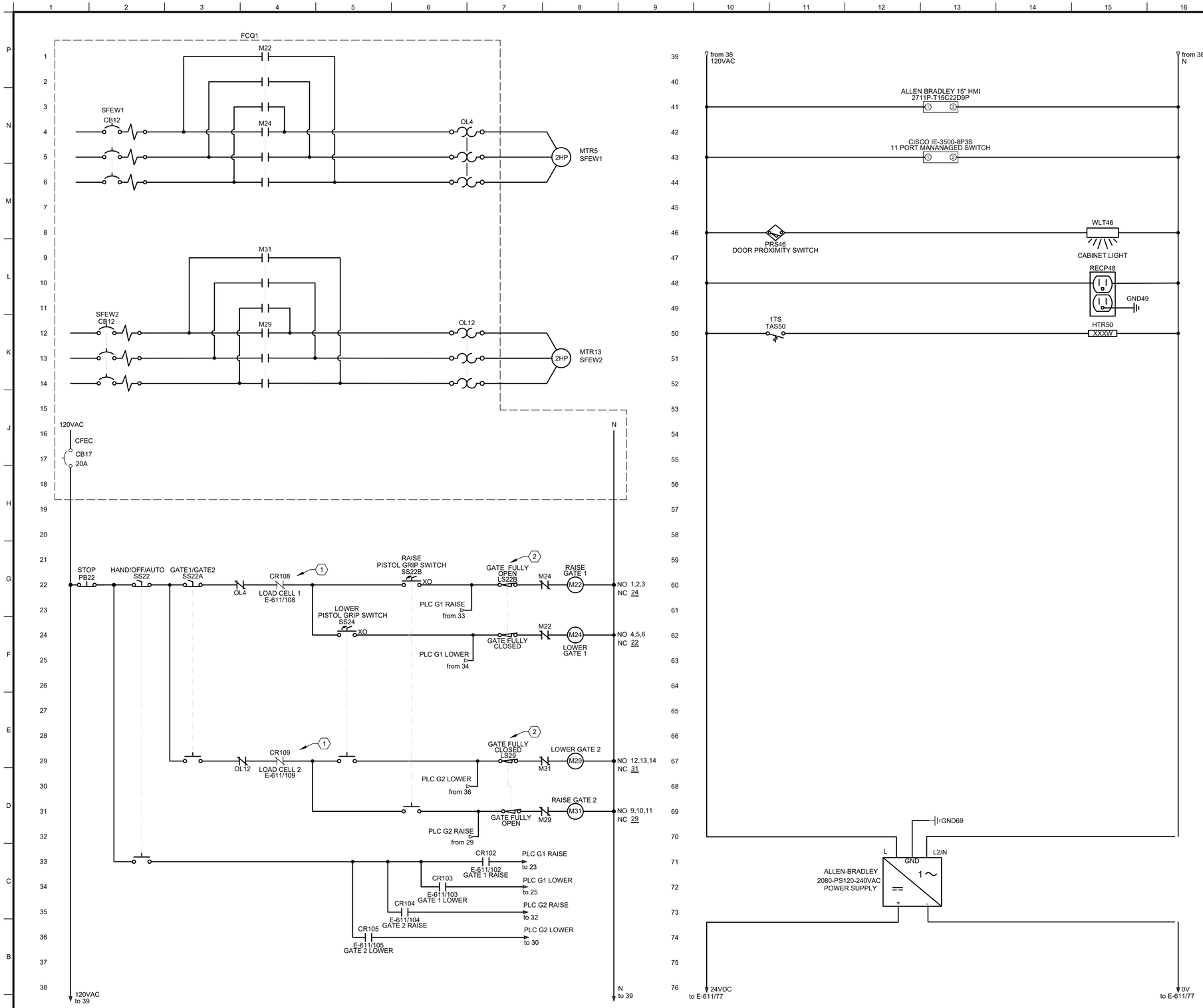
INSTALL FCQ4 PANEL

SHEET ID

E-605

INTERIM

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GENERAL NOTES

1. TYPICAL FOR CENTRAL AND NORTH WEIR GATES SETUP.

SHEET KEYNOTES

1. USED TO STOP THE MOTOR WHEN THE CABLE SPOOL WERE TO UNRAVEL.
2. PART OF A SINGLE ROTARY LIMIT SWITCH TO LIMIT THE GATE LIMITS .

LEGEND

EXISTING
INSTALLATION

A1 SOUTH WEIR GATE CONTROLS INSTALL
SCALE: NTS

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CHECKED BY:	S. SCHEIFF
SUBMITTED BY:	J. VAN STEDUM, PE
SIZE	ANSI D
FILE NUMBER	

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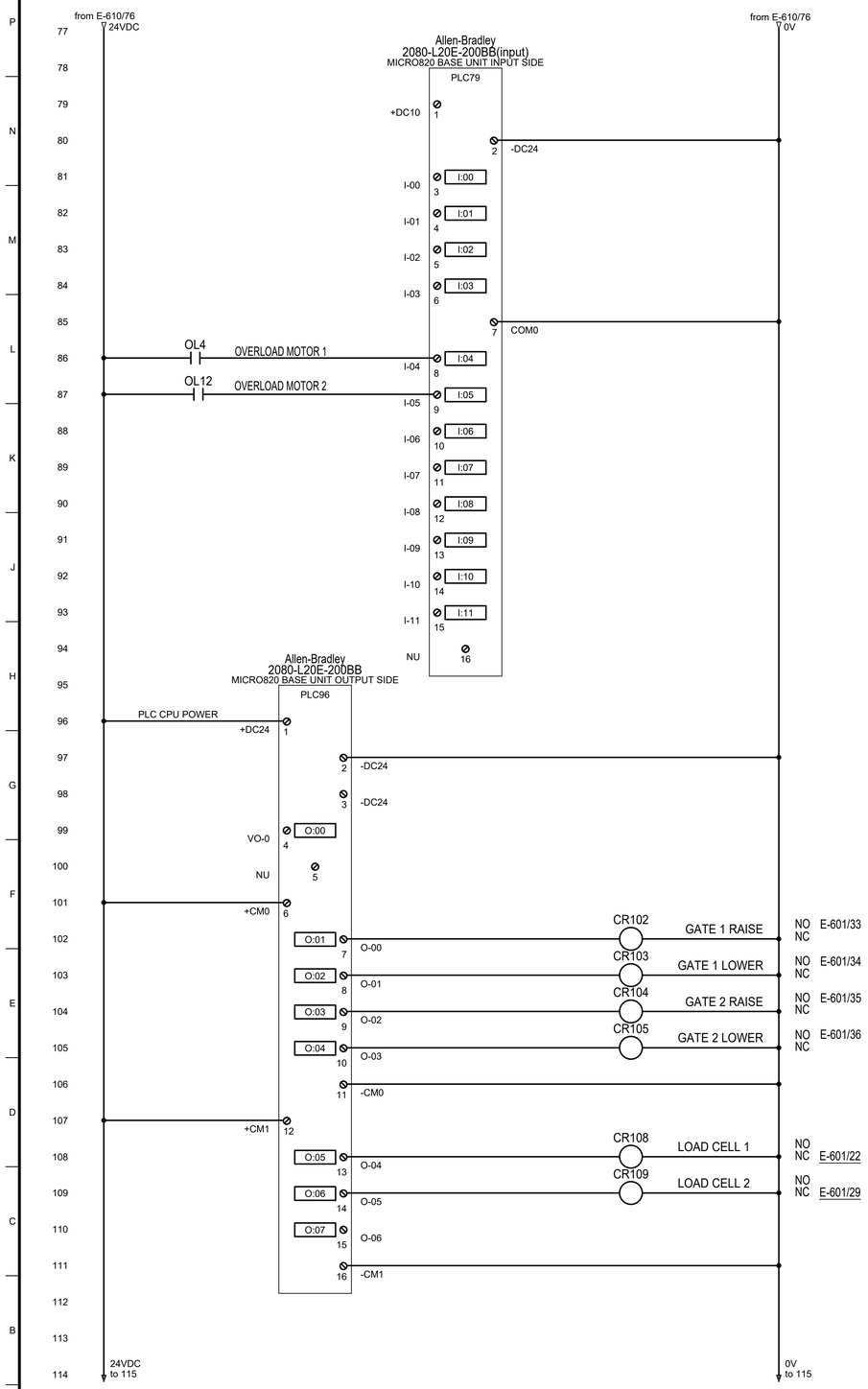
ICE HARBOR LOCK AND DAM
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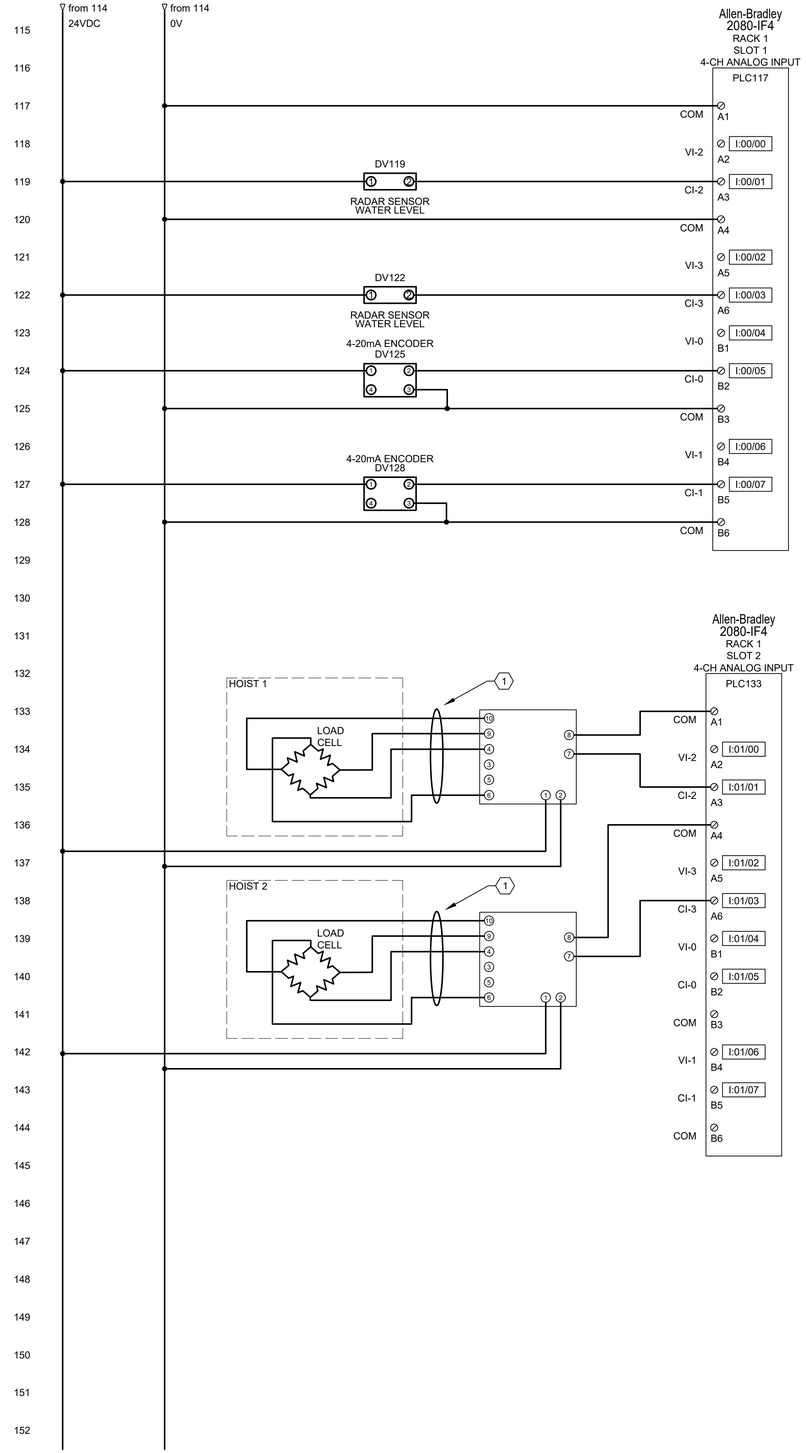
INSTALL SCHEMATICS SOUT AND CENTRAL WEIR GATES

SHEET ID
E-610

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INTERIM





GENERAL NOTES

1. MICRO820 CONTOLLER HAS A BUILT-IN BASE UNIT WITH DIGITAL AND ANALOG INPUTS AND OUTPUTS.
2. TYPICAL FOR CENTRAL AND NORTH WEIR GATES SETUP.

SHEET KEYNOTES

1. ALL ONE CABLE FROM THE AMPLIFIER TO THE LOAD CELL.

LEGEND

NU NOT USED

EXISTING
INSTALLATION

A1 SOUTH WEIR GATES CONTROL SCHEMATIC (CONTINUED)

SCALE: NTS

US Army Corps of Engineers®

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DRAWN BY: E. ADSHEAD
CHECKED BY: S. SCHEIFF
SUBMITTED BY: DEVIN STEPHAN, PE
SIZE: ANSI D
ISSUE DATE: MMMMMMMM YYYY
SOLICITATION NO.: W912EF
CONTRACT NO.:
FILE NUMBER

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WA 99362

ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE HOIST MACHINERY REPLACEMENT

INSTALL SCHEMATIC NORTH WEIR GATE

SHEET ID

E-611

INTERIM

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GENERAL NOTES

1. SHALL USE CISCO IE3500 RUGGED SERIES IE-3500-8P3S - 11 PORTS MANAGED SWITCH.
2. NEW SYSTEM FOR WEIR GATES SHALL BE REMOVED FROM CURRENT NETWORK SYSTEM LOCATED IN FSP1 TO THE CONTROL ROOM.
3. GOVERNMENT TO REPROGRAM EXISTING NETWORK AND ASSOCIATED PLC EQUIPMENT.

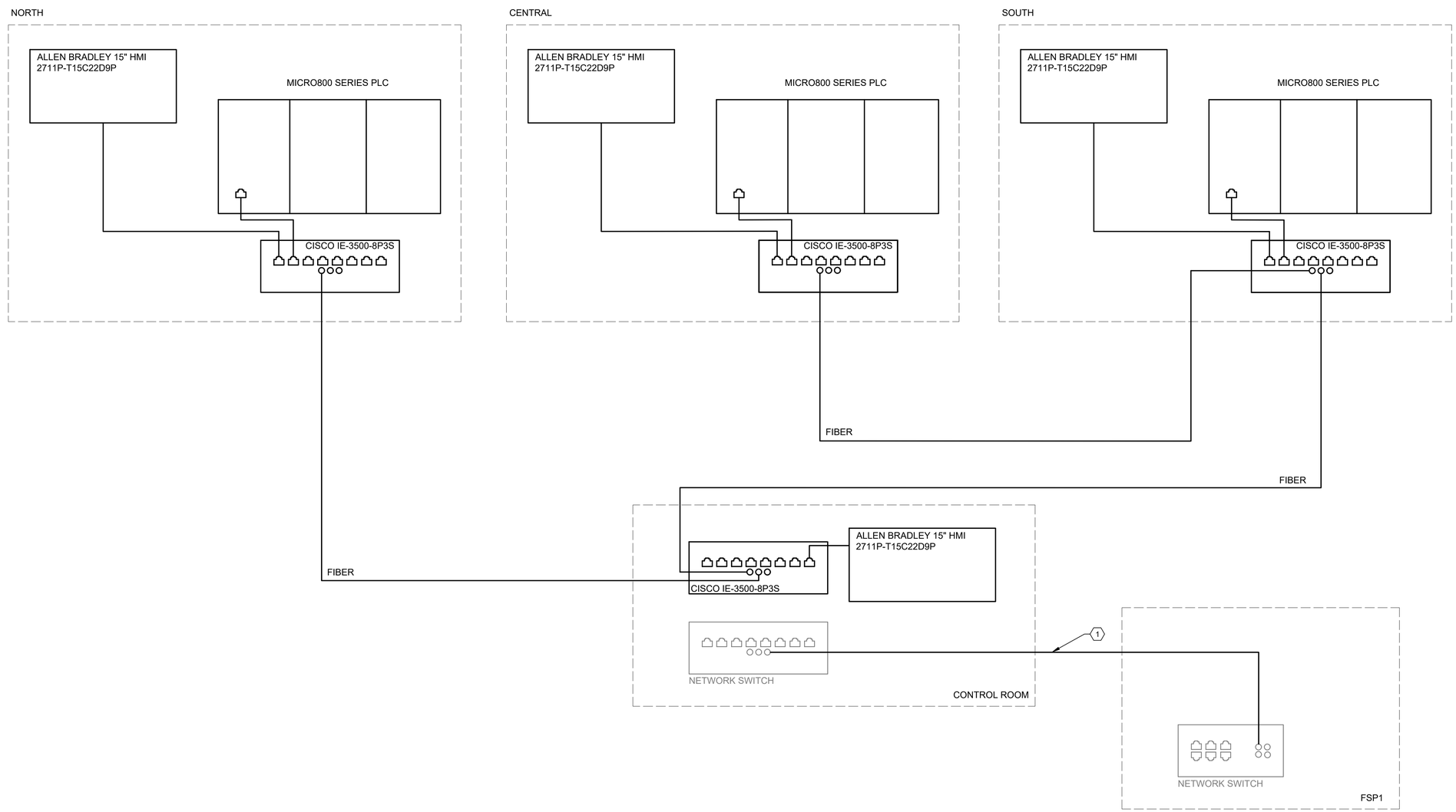
SHEET KEYNOTES

1. CONTRACTOR TO INSTALL NEW FIBER. GOVERNMENT WILL REPROGRAM EXISTING NETWORK SWITCHES.

LEGEND

EXISTING

INSTALLATION



A1 NETWORK DIAGRAM

SCALE: NTS

US Army Corps of Engineers®

INTERIM REVIEW

MARK	DESCRIPTION	DATE
		06/03/2026

DESIGNED BY:	ISSUE DATE:
E. ADSHEAD	MMMMMMMM YYYY
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NETWORK DIAGRAM INSTALL

SHEET ID

E-612

INTERIM

HL501812E-612.DWG
AEC_B&W.STB
AUTOCAD PDF (GENERAL DOCUMENTATION).PC3
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FSQ1

CONDUIT				CABLE										DESCRIPTION					KEYNOTE ID
TAG NAME/NUMBER	SIZE (IN.)	TYPE	LENGTH (FT.)	INDEX	WIRE NO.	TAG NAME/NUMBER	PHASE CONDUCTORS				GROUND		LENGTH (FT.)	OPR. VOLTAGE	FROM	TO	FUNCTION	ROUTING	
							NO. COND.	SIZE	INSUL. (V)	INSUL. TYPE	NO. COND.	SIZE							
FSQ1-q1-FCQ1	2"	RMC			A,B,C	FSQ1-q1-FCQ1	3	1/0 AWG	600	XHHW	1	6 AWG		480	FSQ1	FCQ1	FCQ1 POWER	TRAY/COND...	
FSQ1-q1-FCQ2	1"	RMC			A,B,C	FSQ1-q1-FCQ2	3	6 AWG	600	XHHW	1	10 AWG		480	FSQ1	FCQ2	FCQ2 POWER	TRAY/COND...	

DCQ1

CONDUIT				CABLE								DESCRIPTION					KEYNOTE ID
TAG NAME/NUMBER	SIZE (IN.)	TYPE	LENGTH (FT.)	INDEX	WIRE NO.	TAG NAME/NUMBER	CONDUCTORS				GROUND		LENGTH (FT.)	OPR. VOLTAGE	FROM	TO	FUNCTION	ROUTING	
							NO. COND.	SIZE	INSUL. (V)	INSUL. TYPE	NO. COND.	SIZE							
DCQ1-q1-FCQ4	2"	RMC			A,B,C	DCQ1-q1-FCQ4	3	1 AWG	600	XHHW	1	6 AWG	350	120	DCQ1	FCQ4	FCQ4 POWER	CONDUIT	

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CABLE AND CONDUIT SCHEDULE - INSTALL

SHEET ID
E-613

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INTERIM

FCQ1

CONDUIT				CABLE										DESCRIPTION					KEYNOTE ID
							CONDUCTORS				GROUND								
TAG NAME/NUMBER	SIZE (IN.)	TYPE	LENGTH (FT.)	INDEX	WIRE NO.	TAG NAME/NUMBER	NO. COND.	SIZE	INSUL. (V)	INSUL. TYPE	NO. COND.	SIZE	LENGTH (FT.)	OPR. VOLTAGE	FROM	TO	FUNCTION	ROUTING	
FCQ1-q1-SFEW1	1"	RMC			A,B,C	FCQ1-q1-SFEW1	3	12 AWG	600	XHHW	1	12 AWG	220	480	FCQ1	SFEW1	SOUTH FISHWAY ENTRANCE...	TRAY/COND...	
FCQ1-q1-SFEW2	1"	RMC			A,B,C	FCQ1-q1-SFEW2	3	12 AWG	600	XHHW	1	12 AWG	240	480	FCQ1	SFEW2	SOUTH FISHWAY ENTRANCE...	TRAY/COND...	
					A,B,C	FCQ1-q1-TSFEC	3	12 AWG	600	XHHW	1	12 AWG		480	FCQ1	TSFEC	TRANSFORMER LOCATED IN...		
TSFEC-r1-SFEC	1"	RMC				TSFEC-r1-SFEC	2	10 AWG	600	XHHW	1	12 AWG	100	120	FCQ1	SFEC	SOUTH FISHWAY ENTRANCE CONTROL PANEL (PLC)	TRAY/CONDUIT	
					A,B,C	FCQ1-q1-TRA4	3	10 AWG	600	XHHW	1	12 AWG		480	FCQ1	TRA4	TRANSFORMER LOCATED IN...		
						TRA4-r1-CRA4	3	6 AWG	600	XHHW	1	12 AWG		240/120	TRA4	CRA4	HEATER POWER PANEL IN FCQ1		
FCQ1-q1-GS03	1-1/4"	RMC			A,B,C	FCQ1-q1-GS03	3	12 AWG	600	XHHW	1	12 AWG	255	480	FCQ1	GS03	SOUTH ENTRANCE SLUICE GAT...	TRAY/COND...	
FCQ1-q1-GS1	1-1/2"	RMC			A,B,C	FCQ1-q1-GS1	3	12 AWG	600	XHHW	1	12 AWG	105	480	FCQ1	GS1	COLLECTION CHANNEL SLUICEGATE 1	TRAY/CONDUIT	
FCQ1-q1-GS2	1-1/2"	RMC			A,B,C	FCQ1-q1-GS2	3	12 AWG	600	XHHW	1	12 AWG	195	480	FCQ1	GS2	COLLECTION CHANNEL SLUICEGATE 2	TRAY/CONDUIT	
FCQ1-q1-GS3	1-1/2"	RMC			A,B,C	FCQ1-q1-GS3	3	12 AWG	600	XHHW	1	12 AWG	110	480	FCQ1	GS3	COLLECTION CHANNEL SLUICEGATE 3	TRAY/CONDUIT	
FCQ1-q1-FRECPT	1"	RMC			A,B,C	FCQ1-q1-FRCPT	3	6 AWG	600	XHHW	1	12 AWG	105	480	FCQ1	FRECPT	TAILRACE DECK RECEPTICALS	TRAY/COND...	
FCQ1-q1-TRA1	1"	RMC			A,B,C	FCQ1-q1-TRA1	3	8 AWG	600	XHHW	1	12 AWG	305	480	FCQ1	TRA1	LIGHTING PANEL TRANSFORMER	TRAY/COND...	
FCQ1-q1-FT6	1-1/2"	RMC			A,B,C	FCQ1-q1-FR6	3	1 AWG	600	XHHW	1	12 AWG	930	480	FCQ1	FT6	240/120V PANEL MOUNTED ON FISH LADDER	TRAY/CONDUIT	
FCQ1-q1-FCQ6	1"	RMC			A,B,C	FCQ1-q1-FCQ6	3	2 AWG	600	XHHW	1	6 AWG	35	480	FCQ1	FCQ6	FCQ6 HEATER PANEL POWER	TRAY/COND...	

FCQ2

CONDUIT				CABLE										DESCRIPTION					KEYNOTE ID
							FIBER CABLE				GROUND								
TAG NAME/NUMBER	SIZE (IN.)	TYPE	LENGTH (FT.)	INDEX	WIRE NO.	TAG NAME/NUMBER	NO. STRAN...	SIZE	INSUL. (V)	INSUL. TYPE	NO. COND.	SIZE	LENGTH (FT.)	OPR. VOLTAGE	FROM	TO	FUNCTION	ROUTING	
FCQ2-q1-CFEW1	2"	RMC			A,B,C	FCQ2-q1-CFEW1	3	12 AWG	600	XHHW	1	12 AWG	235	480	FCQ2	CFEW1	CENTRAL FISHWAY ENTRANCE GATE 1		
FCQ2-q1-CFEW2	2"	RMC			A,B,C	FCQ2-q1-CFEW2	3	12 AWG	600	XHHW	1	12 AWG	255	480	FCQ2	CFEW2	CENTRAL FISHWAY ENTRANCE GATE 2		
					A,B,C	FCQ2-q1-TCFEC	3	10 AWG	600	XHHW	1	10 AWG	30	480	FCQ2	TCEFC	TRANSFORMER LOCATED IN...		
TCFEC-r1-CFEC	1"	RMC				TCFEC-r1-CFEC	2	10 AWG	600	XHHW	1	10 AWG	100	120	TCFEC	CFEC	CENTRAL FISHWAY ENTRANCE CONTROL PANEL (PLC)		
					A,B,C	FCQ1-q1-TRA5	3	10 AWG	600	XHHW	1	10 AWG	30	480	FCQ2	TRA5	TRANSFORMER LOCATED IN...		
						TRA5-r1-CRA5	3	6 AWG	600	XHHW	1	6 AWG	30	240/120	TRA5	CRA5	HEATER POWER PANEL IN FCQ2		
FCQ2-q1-GS4	1-1/2"	RMC			A,B,C	FCQ2-q1-GS4	3	12 AWG	600	XHHW	1	12 AWG	165	480	FCQ2	GS4	COLLECTION CHANNEL LUICEGATE 4		
FCQ2-q1-GS5	1-1/2"	RMC			A,B,C	FCQ2-q1-GS5	3	12 AWG	600	XHHW	1	12 AWG	75	480	FCQ2	GS5	COLLECTION CHANNEL SLUICEGATE 5		
FCQ2-q1-GS6	1-1/2"	RMC			A,B,C	FCQ2-q1-GS6	3	12 AWG	600	XHHW	1	12 AWG	145	480	FCQ2	GS6	COLLECTION CHANNEL SLUICEGATE 6		1
FCQ2-q1-FRCPT	1-1/2"	RMC			A,B,C	FCQ1-q1-FRCPT	3	6 AWG	600	XHHW	1	10 AWG	100	480	FCQ2	FRECPT	TAILRACE DECK RECEPTICALS		
FCQ1-q1-TRA2	1"	RMC			A,B,C	FCQ1-q1-TRA2	3	10 AWG	600	XHHW	1	10 AWG	75	480	FCQ2	TRA2	LIGHTING PANEL TRANSFORMER		

FCQ4

CONDUIT				CABLE										DESCRIPTION					KEYNOTE ID
							CONDUCTORS				GROUND								
TAG NAME/NUMBER	SIZE (IN.)	TYPE	LENGTH (FT.)	INDEX	WIRE NO.	TAG NAME/NUMBER	NO. COND.	SIZE	INSUL. (V)	INSUL. TYPE	NO. COND.	SIZE	LENGTH (FT.)	OPR. VOLTAGE	FROM	TO	FUNCTION	ROUTING	
FCQ4-q1-JB1	2"	RMC		FCQ4.1		FCQ4-q1-UW7	3	8 AWG	600	XHHW	1	8 AWG	180	480	FCQ4	JB1	UNWATERING PUMP 7 POWER		
				FCQ4.2		FCQ4-q1	3	10 AWG	600	XHHW	1	10 AWG	110	480			480V RECEPTACLE NEAR JB5		
				FCQ4.3		FCQ4-q1-DV	3	8 AWG	600	XHHW	1	10 AWG	115	480			DIFFUSER VALVE 1-5 POWER		1
JB1-q1-D1.1	1-1/2"	RMC		FCQ4.3													DAISY CHAINED POWER FROM DIFFUSER VALVE 1 -2		
				FCQ4.3															
JB1-q1-JB2	2"	RMC		FCQ4.1															
				FCQ4.2															
				FCQ4.3															
JB2-q1-D1.2	1-1/2"	RMC		FCQ4.3													DAISY CHAINED POWER FROM DIFFUSER VALVE 2 -3		
				FCQ4.3															
JB2-q1-JB3	2"	RMC		FCQ4.1															
				FCQ4.2															
				FCQ4.3															
JB3-q1-D1.3	1-1/2"	RMC		FCQ4.3													DAISY CHAINED POWER FROM DIFFUSER VALVE 3 -4		
				FCQ4.3															
JB3-q1-JB4	2"	RMC		FCQ4.1															
				FCQ4.2															
				FCQ4.3															
JB4-q1-D1.4	1-1/2"	RMC		FCQ4.3													DAISY CHAINED POWER FROM DIFFUSER VALVE 4 -5		
				FCQ4.3															
JB4-q1-JB5	2"	RMC		FCQ4.1															
				FCQ4.2															
				FCQ4.7															
JB5-q1-D1.5	1-1/2"	RMC		FCQ4.7													DIFFUSER VALVE 5		
JB5-q1.3	1-1/4"	RMC		FCQ4.2															
JB5-q1-JB6	2"	RMC		FCQ4.1															
JB6-q1-P7	1-1/4"	RMC		FCQ4.1															
FCQ4-q2.2	1-1/4"	RMC				FCQ4-q1.1	3	10 AWG	600	XHHW	1	10 AWG	145	480					
FCQ4-r15.5	3/4"	RMC				FCQ4-r15	2	12 AWG	600	XHHW	1	12 AWG	145	120					
FCQ4-q1.2	1"	RMC				FCQ4-q1.2	3	10 AWG	600	XHHW	1	10 AWG	115	480					
						FCQ4-q1-TR5	3	6 AWG	600	XHHW	1	6 AWG	30	120					
						TR5-q1-FR5	3	12 AWG	600	XHHW	1	12 AWG	30	480					
FCQ4-q1-NFEW1	1"	RMC				FCQ4-q1-NFEW1	3	12 AWG	600	XHHW	1	12 AWG	140	480					
FCQ4-q1-NFEW2	1"	RMC				FCQ4-q1-NFEW2	3	12 AWG	600	XHHW	1	12 AWG	180	480					

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ICE HARBOR LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
ADULT FISH LADDER ENTRANCES
WEIR GATE MACHINERY REPLACEMENT

CABLE AND CONDUIT SCHEDULE - INSTALL

SHEET ID

E-614

INTERIM

CRA4

CONDUIT				CABLE										DESCRIPTION					
							CONDUCTORS				GROUND								
TAG NAME/NUMBER	SIZE (IN.)	TYPE	LENGTH (FT.)	INDEX	WIRE NO.	TAG NAME/NUMBER	NO. COND.	SIZE	INSUL. (V)	INSUL. TYPE	NO. COND.	SIZE	LENGTH (FT.)	OPR. VOLTAGE	FROM	TO	FUNCTION	ROUTING	KEYNOTE ID
CRA4-r1-SFEG1	1"	RMC				CRA4-r1-SFEG1	3	10 AWG	600	XHHW	1	12 AWG	225	240	CRA4	SFEG1	STILLING WELL HEATER	TRAY/COND...	
CRA4-r2-SFEG2	1"	RMC				CRA4-r2-SFEG2	3	10 AWG	600	XHHW	1	12 AWG	255	240	CRA4	SFEG2	STILLING WELL HEATER	TRAY/COND...	
CRA4-r5	1"	RMC				CRA4-r5-WCR	2	10 AWG	600	XHHW	1	10 AWG	100	120	CRA4	WCR	WAREHOUSE CARD READER	TRAY/COND...	
CRA4-r6	1"	RMC				CRA4-r6	2	10 AWG	600	XHHW	1	10 AWG	200	120	CRA4	HTRR	HEADSENSING TAILRACE RADAR	TRAY/COND...	

CRA5

CONDUIT				CABLE								DESCRIPTION					
							PHASE CONDUCTORS				GROUND								
TAG NAME/NUMBER	SIZE (IN.)	TYPE	LENGTH (FT.)	INDEX	WIRE NO.	TAG NAME/NUMBER	NO. STRAN...	SIZE	INSUL. (V)	INSUL. TYPE	NO. COND.	SIZE	LENGTH (FT.)	OPR. VOLTAGE	FROM	TO	FUNCTION	ROUTING	KEYNOTE ID
CRA4-r1-CFEG1	1"	RMC				CRA4-r1-CFEG1	3	10 AWG	600	XHHW		12 AWG	225	240	CRA4	CFEG1	STILLING WELL HEATER		
CRA4-r2-CFEG2	1"	RMC				CRA4-r2-CFEG2	3	10 AWG	600	XHHW		12 AWG	255	240	CRA4	CFEG2	STILLING WELL HEATER		

FR5

CONDUIT				CABLE								DESCRIPTION					
							FIBER CABLE				GROUND								
TAG NAME/NUMBER	SIZE (IN.)	TYPE	LENGTH (FT.)	INDEX	WIRE NO.	TAG NAME/NUMBER	NO. STRAN...	FIBER TYPE	INSUL. (V)	INSUL. TYPE	NO. COND.	SIZE	LENGTH (FT.)	OPR. VOLTAGE	FROM	TO	FUNCTION	ROUTING	KEYNOTE ID
TR5-r1-NFEG1	1"	RMC				TCFEC-r1-NFEG1	2	10 AWG	600	XHHW	1	12 AWG	100	120	FR5	NFEG1	STILLING WELL HEATER		
TR5-r1-NFEG2	1"	RMC				TCFEC-r1-NFEG2	2	10 AWG	600	XHHW	1	12 AWG	100	120	FR5	NFEG2	STILLING WELL HEATER		
TR5-r5-NFEC	1"	RMC				TCFEC-r5-NFEC	2	10 AWG	600	XHHW	1	12 AWG	100	120	FR5	NFEC	NORTH FISHWAY ENTRANCE CONTROL PANEL (PLC)		
TR5-r6	1"	RMC				TCFEC-r6	2	12 AWG	600	XHHW	1	12 AWG	100	120	FR5		FLOATWELL #4 HEATERS		
TR5-r7	1"	RMC				TCFEC-r7	2	12 AWG	600	XHHW	1	12 AWG	100	120	FR5		DIFFUSER GATE CONTROL		
TR5-r8	1"	RMC				TCFEC-r8	2	12 AWG	600	XHHW	1	12 AWG	100	120	FR5		DIFFUSER GATE #1 HEATER		
TR5-r9	1"	RMC				TCFEC-r9	2	12 AWG	600	XHHW	1	12 AWG	100	120	FR5		FLOATWELL #3 HEATER		
TR5-r10	1"	RMC				TCFEC-r10	2	12 AWG	600	XHHW	1	12 AWG	100	120	FR5		DIFFUSER GATE #3 HEATER		
TR5-r11	1"	RMC				TCFEC-r11	2	12 AWG	600	XHHW	1	12 AWG	100	120	FR5		WEIR #1 HEATER		
TR5-r12	1"	RMC				TCFEC-r12	2	12 AWG	600	XHHW	1	12 AWG	100	120	FR5		UNWATERPUMP CONTROL		
TR5-r13	1"	RMC				TCFEC-r13	2	12 AWG	600	XHHW	1	12 AWG	100	120	FR5		DIFFUSER GATE #2 HEATER		
TR5-r14	1"	RMC				TCFEC-r14	2	12 AWG	600	XHHW	1	12 AWG	100	120	FR5		LIGHTS		
TR5-r15	1"	RMC				TCFEC-r15	2	12 AWG	600	XHHW	1	12 AWG	100	120	FR5		DIFFUSER GATE #4 HEATER		
TR5-r16	1"	RMC				TCFEC-r16	2	12 AWG	600	XHHW	1	12 AWG	100	120	FR5		DIFFUSER MASTER RELAY		
TR5-r17	1"	RMC				TCFEC-r17	2	12 AWG	600	XHHW	1	12 AWG	100	120	FR5		RECEPTACLE		

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E-615

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