

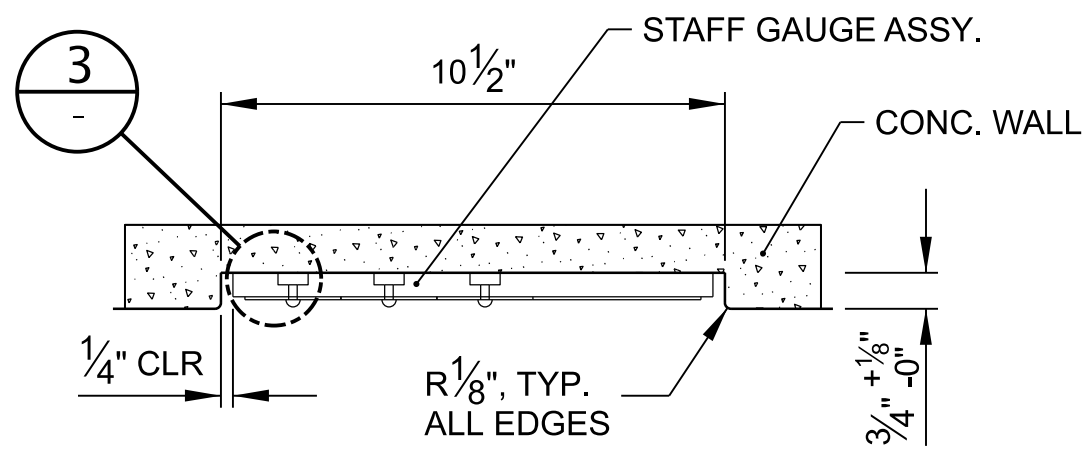
NOTES:

- 1. SEE G-001 FOR GENERAL NOTES SYMBOLS AND ABBREVIATIONS.
- 2. SEE S-001 FOR STRUCTURAL GENERAL NOTES.
- 3. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR BUILDING LOCATIONS.



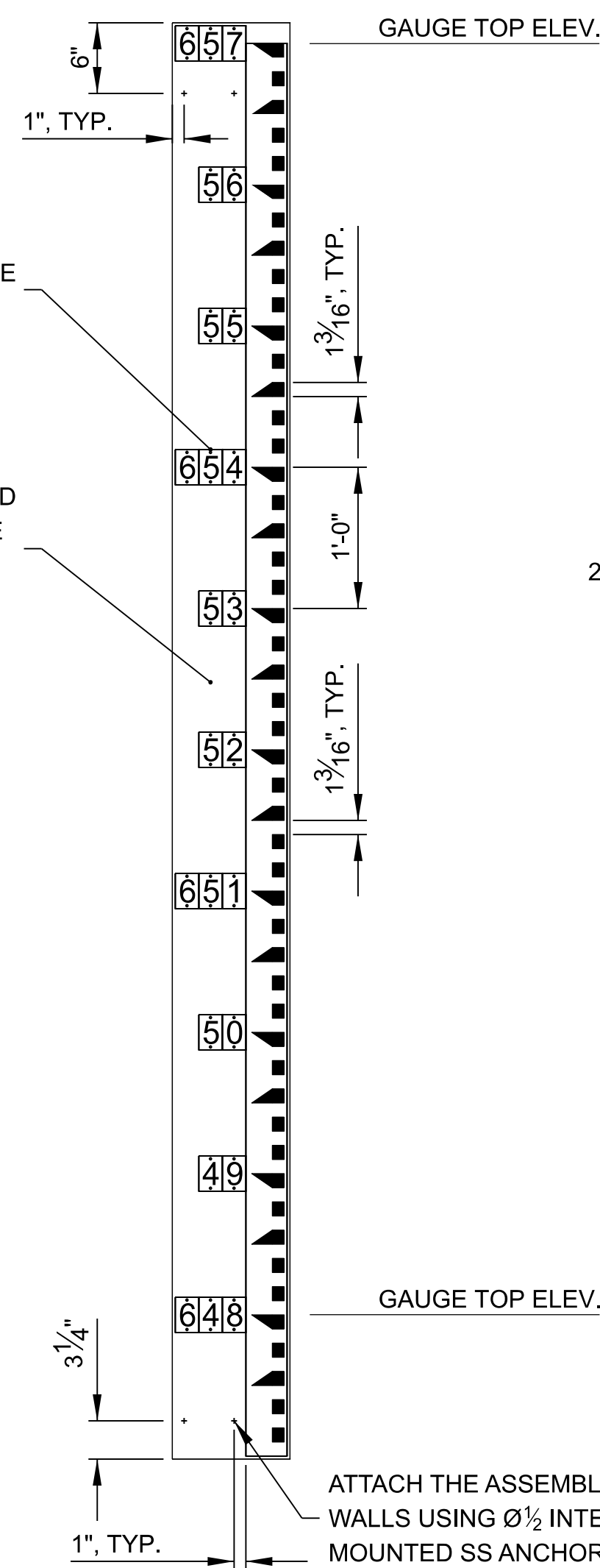
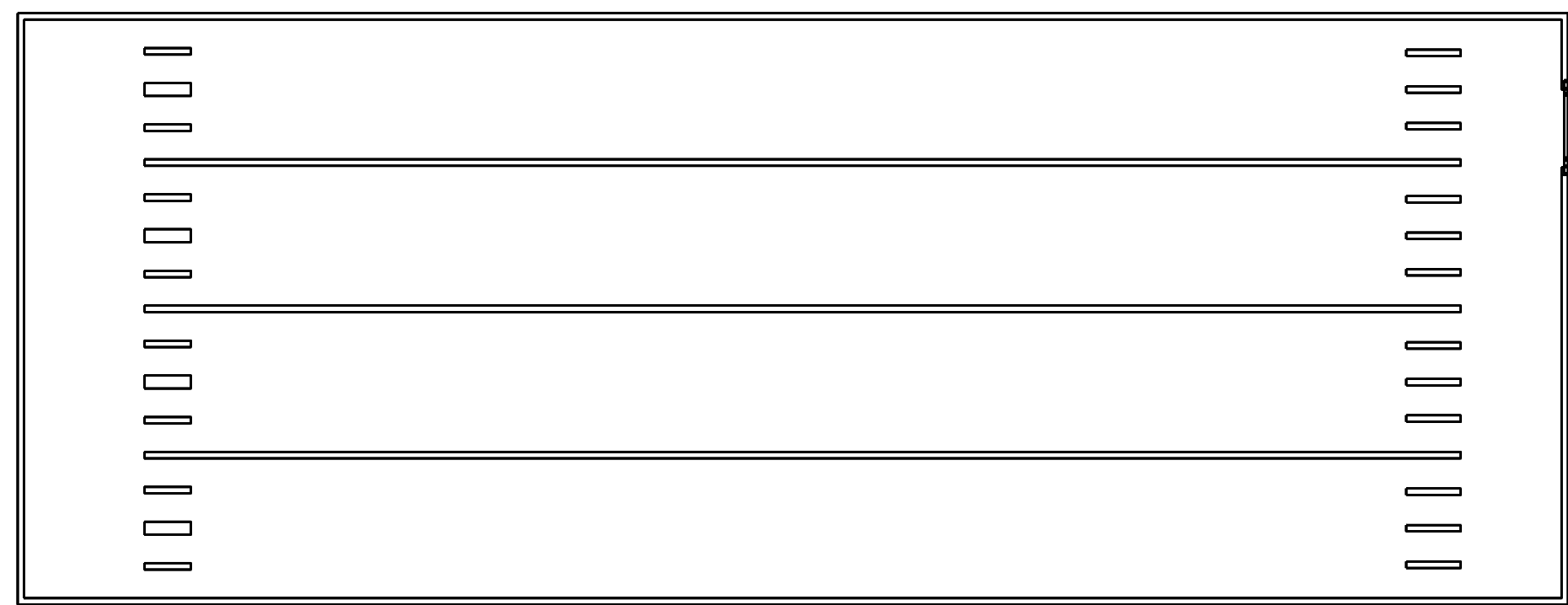
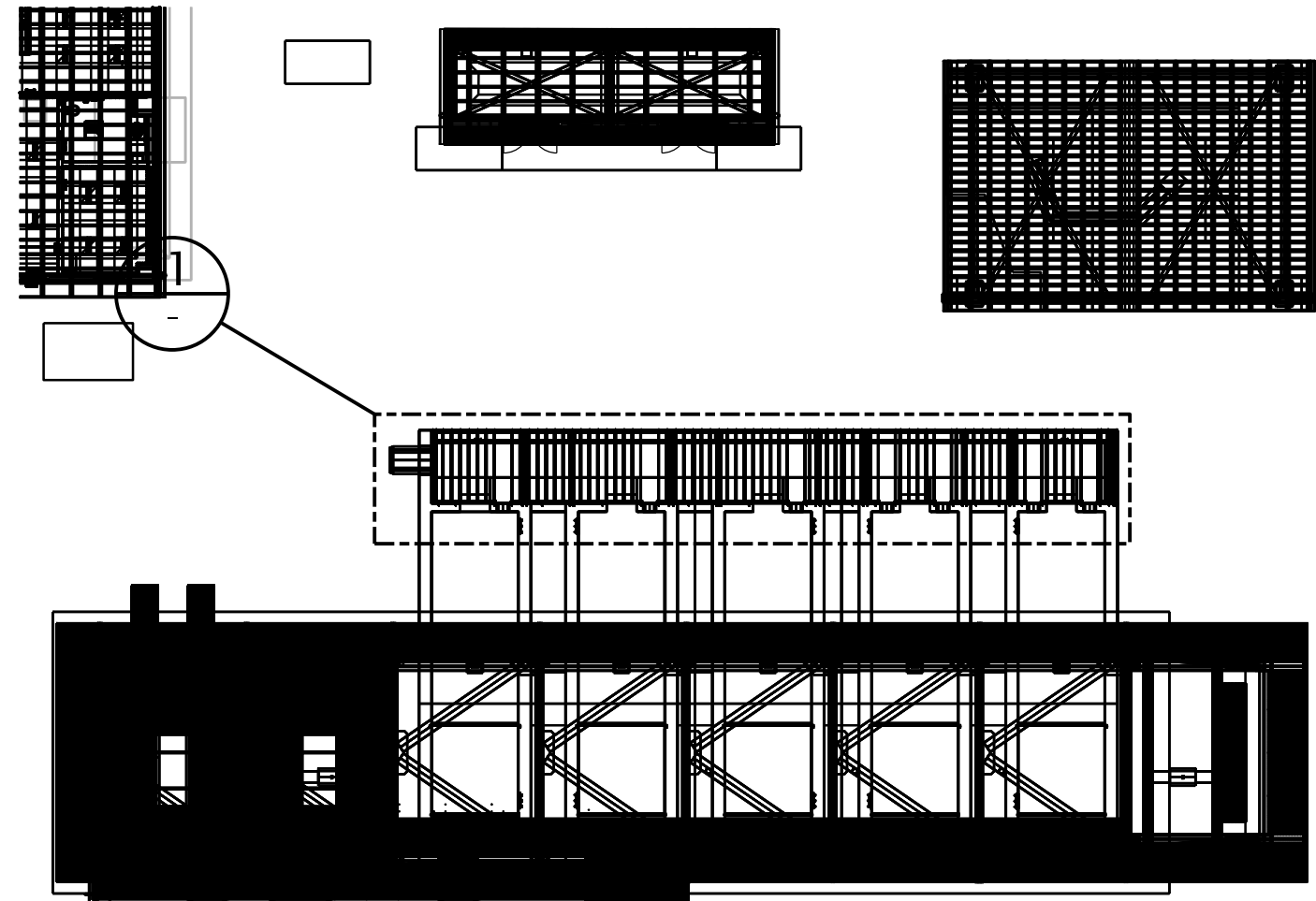
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BCOES REVIEW									
DATE 07									APPR.
DATE 06									
DATE 05									
DATE 04									
DATE 03									
DATE 02									
DATE 01									



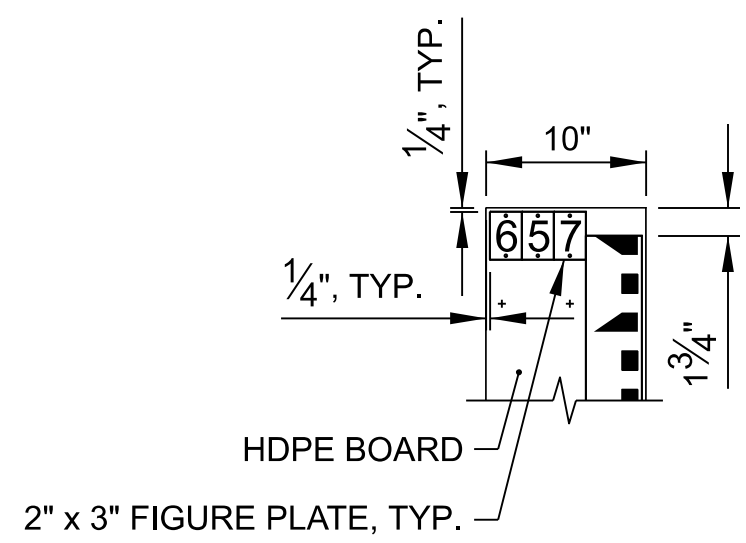
TYPICAL BLOCKOUT CROSS SECTION

SCALE: 3" = 1'-0"



TYPICAL STAFF GAUGE ASSEMBLY

SCALE: 1" = 1'-0"



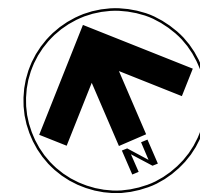
TYPICAL FIGURE PLATES

SCALE: 1" = 1'-0"

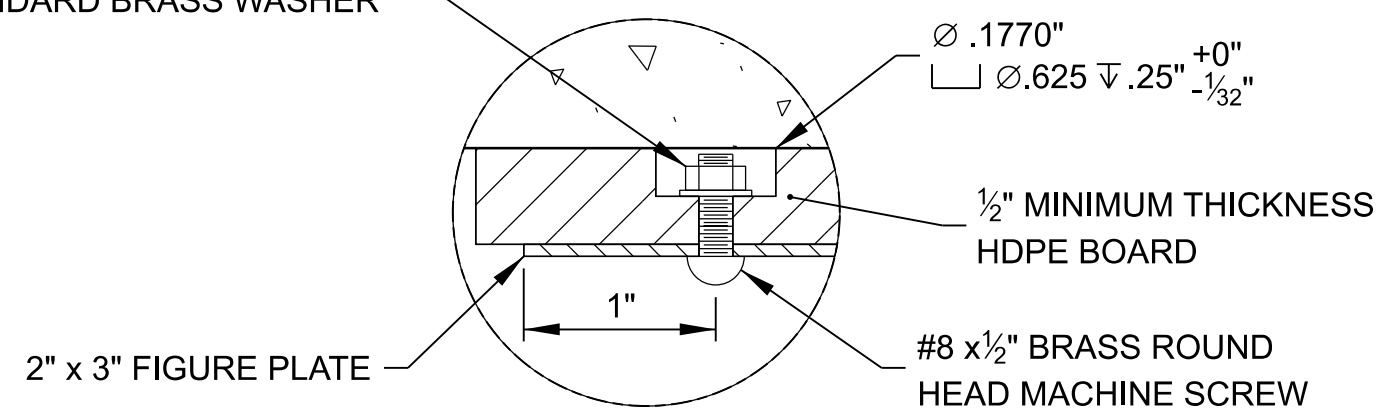
GAUGE PLACEMENT CHART			
GAUGE #	GAUGE LOCATION	ELEVATION VALUES (FT)	
		TOP OF GAUGE	BOTTOM OF GAUGE
1	POST-SORT POOL	660.0	652.5
2	POST-SORT POOL	660.0	652.5
3	POST-SORT POOL	660.0	652.5
4	POST-SORT POOL	660.0	652.5
5	POST-SORT POOL	660.0	652.5
6	POST-SORT POOL	674.0	666.5
7	POST-SORT POOL	674.0	666.5
8	FISH LADDER APPROACH POOL	2.0	0.0
9	FISH LADDER ENTRANCE	661.0	634.5

STAFF GAUGES LOCATION PLAN

N.T.S.

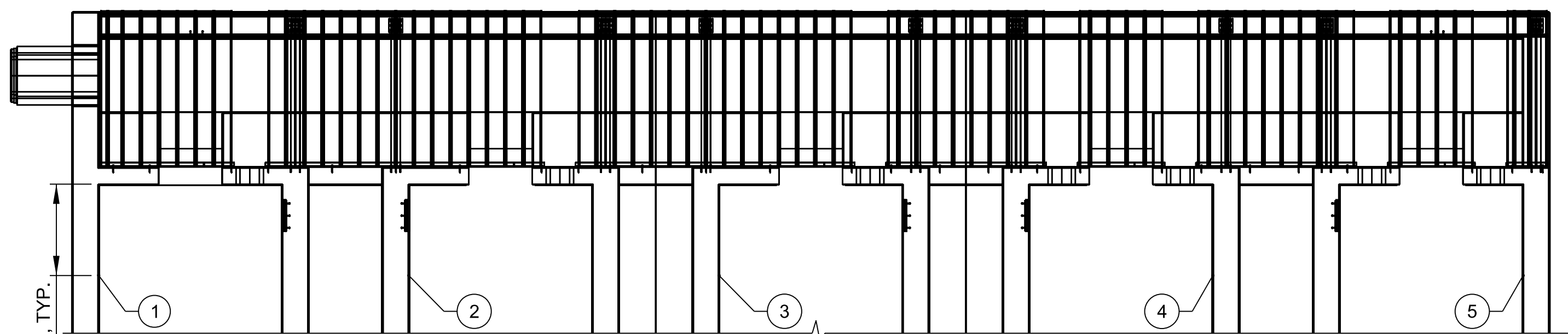


THIN PATTERN BRASS NUT
W/STANDARD BRASS WASHER



TYPICAL INSTALLATION DETAIL

SCALE: 12" = 1'-0"



DETAIL 1

N.T.S.



NOTES:

- SEE SHEET G-001 FOR GENERAL NOTES SYMBOLS AND ABBREVIATIONS. SEE SHEET S-001 FOR STRUCTURAL GENERAL NOTES.
- ALL STAFF GAUGES MUST BE STEVENS WATER MONITORING SYSTEMS TYPE "E" BLACK AND WHITE PORCELAIN ENAMELED IRON OR APPROVED EQUAL.
- ALL FIGURE PLATES MUST BE STEVENS WATER MONITORING SYSTEMS 2" x 3" BLACK AND WHITE PORCELAIN ENAMELED IRON OR APPROVED EQUAL.
- ALL HDPE MATERIAL MUST BE "NATURAL" OR WHITE IN COLOR, TYPE PE300, DENSETEL MARINE AS MANUFACTURED BY POLYMER INDUSTRIES OR APPROVED EQUAL.
- ALL STAFF GAUGES AND FIGURE PLATES TO BE ACCURATELY FABRICATED AND INSTALLED TO THE DIMENSIONS SHOWN. ATTACH STAFF GAGES AND FIGURE PLATES TO HDPE MATERIAL WITH #8 x 1/2" RH BRASS M.S. NUTS AND LOCK WASHERS. NUTS MUST BE ON THE COVERED FACE INSIDE A COUNTERBORED HOLE.
- WATER LEVELS SHOWN IN THE DETAILS ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL WATER LEVELS MUST BE AS SHOWN IN THE "GAUGE PLACEMENT CHART" ON THIS SHEET.
- BLOCKOUTS ARE REQUIRED WHERE FISH CROWDERS PASS BY STAFF GAUGES.
- THE LENGTH OF THE BLOCKOUT SLOT MUST BE 1" LONGER THAN THE TOTAL HEIGHT OF THE STAFF GAUGE TO BE INSTALLED AT THE RESPECTIVE SITE SO THAT SOME ELEVATION ADJUSTMENT IS POSSIBLE.
- THE 10" WIDE STAFF GAUGES MUST BE CENTERED IN THE BLOCKOUT SLOT WHEN INSTALLED.
- THE 26.5 FT LONG STAFF GAUGE MAY BE BUILT OF TWO OR THREE PIECES. THE PIECES MUST BE INSTALLED USING THREE ANCHORS PER PIECE AS INDICATED IN THE TYPICAL STAFF GAUGE DETAIL. IF ONE PIECE IS SUPPLIED, THEN INSTALL THE STAFF GAUGE WITH TWO ADDITIONAL ANCHORS LOCATED NEAR THE QUARTER POINT LOCATIONS OF THE UHMV BOARD.
- ELEVATION VALUES OF THE INTERMEDIATE 3 PLACE NUMBERS MUST BE ON THE FIVES FOR THE 26.5 FT LONG STAFF GAUGE AND NEAR THE MIDDLE OF THE RANGE FOR THE 6 FT, 7 FT AND 8 FT LONG STAFF GAUGES.
- STAFF GAUGE #8 TO BE INSTALLED IN THE FISH LADDER APPROACH POOL AND MUST BE PLACED SUCH THAT THE ZERO LEVEL MATCHES THE ELEVATION OF THE TOP OF THE OVERFLOW WEIR AT U/S END OF WEIR #32. ESTIMATED ELEVATION FOR TOP OF WEIR IS 670.82'.



BCOES REVIEW

DESIGNED BY: CARL M. HARRIS, P.E.	DATE: 10/01/2022
DRAWN BY: CHAD RYAN, P.E.	SOLICITATION NO.: 10012022
SUBMITTED BY: MATTHEW D. HANSEN, P.E.	REVISION: 01
FILE NUMBER: 10012022	CONTRACT NO.: 10012022
FILE NAME: 10012022	FILE NUMBER: 10012022
SIZE: 10012022	FILE NAME: 10012022

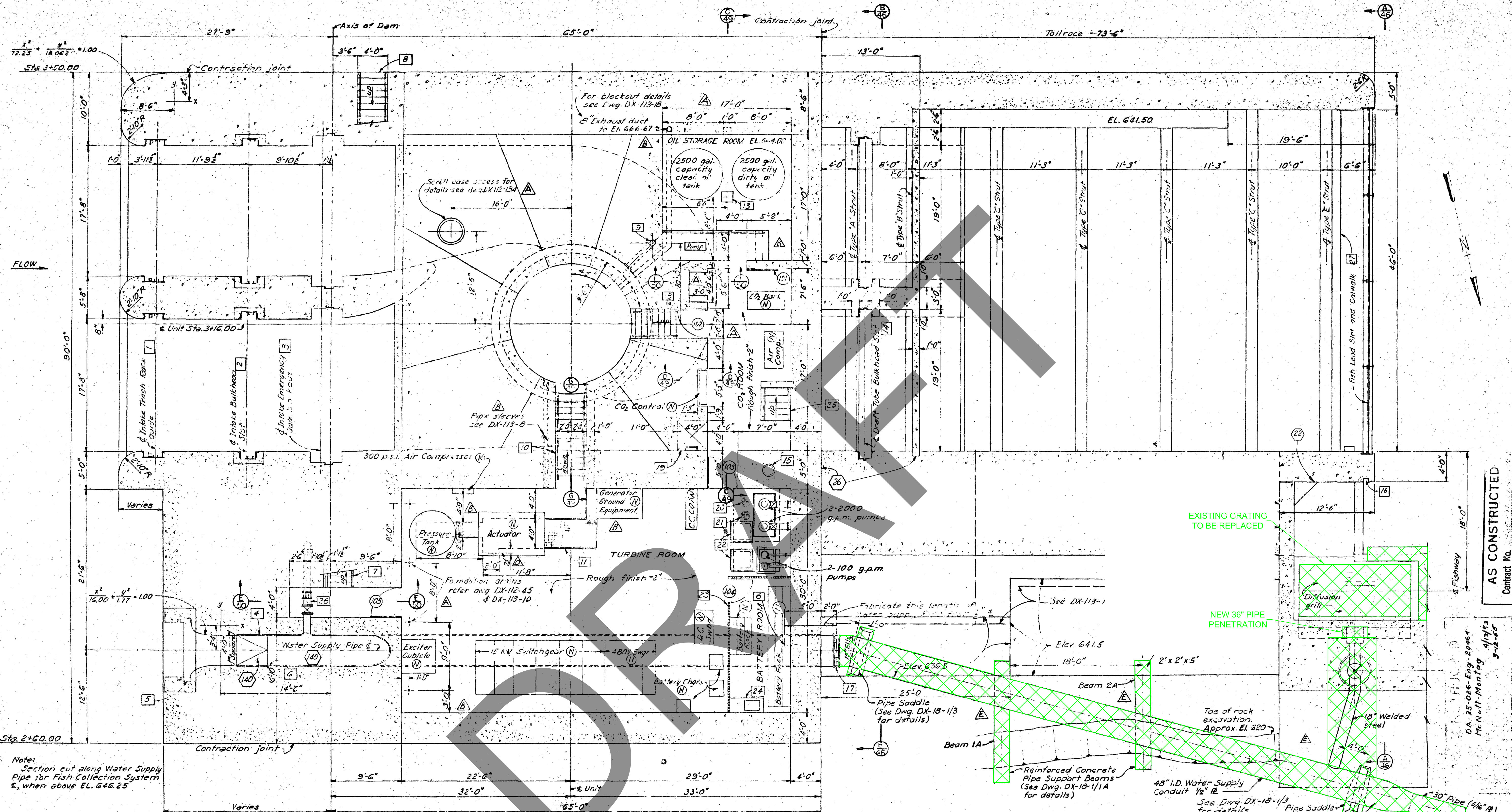
DEXTER DAM AND RESERVOIR
ADULT FISH FACILITY UPGRADE

STAFF GAUGES
LOCATION PLAN AND DETAILS

SHEET
IDENTIFICATION
S-501

CORPS OF ENGINEERS

U. S. ARMY



Note:
Section cut along Water Supply
Pipe for Fish Collection System
E, when above EL. 646.25

- 1 Intake Trash Rack Guide, for placement see dwg. DX-112-101
- 2 Intake Bulkhead Slot, for knockout details see dwg. DX-112-52
- 3 Intake Emergency Gate Sinkout, for details see dwg. DX-112-53
- 4 For transition details see dwg. DX-112-138
- 5 For Water Supply Pipe Intake knockout details see dwg. DX-112-54
- 6 48\"/>
- 7 For stair detail see Section 48
- 8 For Grouting Gallery Access Stairway see Section 48
- 9 R Turbine Vent, for details see dwg. DX-113-10
- 10 Turbine Pit Access, for details see dwg. DX-112-49
- 11 For frame and grating details see dwg. DX-112-137
- 13 Oil Pump, for details see dwg. DX-112-49
- 14 Draft Tube Bulkhead Slot, for details see dwg. DX-112-52
- 15 Downstream Gate Well, for details see dwg. DX-113-10
- 16 Fish Load Sling and Catwalk, for placement see dwg. DX-113-10

PLAN AT ELEVATION 646.25
TURBINE ROOM

SCALE IN FEET
0 2 4 6 8 10 12 14

- 17 Flexible Coupling, for details see dwg. DX-112-138
- 18 Thrust Bearing Access, for details see dwg. DX-112-49
- 19 Access Hatch to Scroll Case and Draft Tube, for details see dwg. DX-112-47
- 20 Draft Tube Drain Valve
- 21 Scroll Case Drain Valve
- 22 27\"/>
- 23 Wire mesh partition, for details see dwg. DX-112-124
- 24 Sink, for details see dwg. DX-112-124
- 25 For stair detail see Section 48
- 26 Scroll Case Fill Line, for details see dwg. DX-113-13
- 27 Fish Load Sling and Catwalk, for placement see dwg. DX-113-10

- NOTES:
1. For general notes, see dwg. DX-112-3.
 2. All concrete shown on this drawing will be paid for at contract unit price (Item 22) unless otherwise noted.
 3. Numbers included in circles (10) represent door styles. For details see dwg. DX-113-13.
 4. Dimensions on this drawing are subject to change pending approval by contracting official. Manufacturers' drawings of equipment to be installed in this powerhouse.
 5. All equipment shown on this drawing with the symbol (N) will not be included in this contract.
 6. For notes on other details see dwg. DX-112-67.
 7. For location of all construction joints not classified in the concrete outline drawings see concrete reinforcement drawings.

DESIGNED BY WALLA WALLA DISTRICT
OFFICE OF THE DISTRICT ENGINEER, WALLA WALLA, WASHINGTON

PREPARED BY: J. J. JACOBSON
SUBMITTED BY: J. J. JACOBSON
CHECKED BY: W. SCOTT
REVIEWED BY: J. J. JACOBSON
APPROVED BY: J. J. JACOBSON
DATE: 10/10/2022

REVISION: DATE: DESCRIPTION: BY:

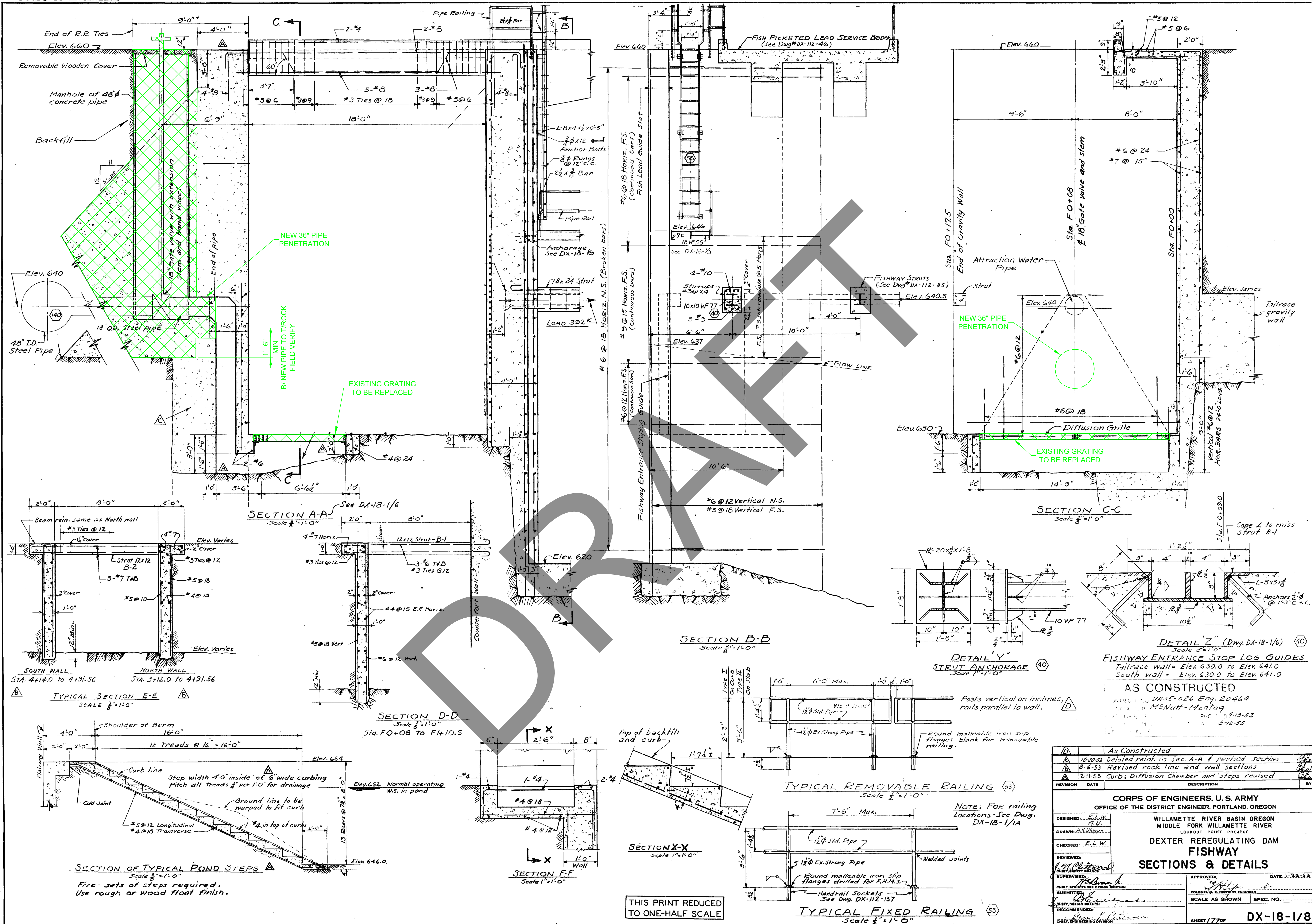
CORPS OF ENGINEERS, U.S. ARMY
OFFICE OF THE DISTRICT ENGINEER, PORTLAND, OREGON

WILLAMETTE RIVER BASIN, OREGON
MIDDLE FORK WILLAMETTE RIVER
LOOKOUT POINT PROJECT
DEXTER REREGULATING DAM
POWERHOUSE
CONCRETE OUTLINE
PLAN - ELEVATION 646.25

DESIGNED BY: J. J. JACOBSON
DRAWN BY: C. J. JACOBSON
CHECKED BY: W. SCOTT
REVIEWED BY: J. J. JACOBSON
APPROVED BY: J. J. JACOBSON
DATE: 10/10/2022

SCALE: AS SHOWN SPEC. NO.:
SHEET NO.: DX-112-40

IMPORTANT: THIS DRAWING SHOWS DEMOLITION IN
COLOR AND IS INTENDED TO BE PRINTED IN COLOR



IMPORTANT: THIS DRAWING SHOWS DEMOLITION IN COLOR AND IS INTENDED TO BE PRINTED IN COLOR



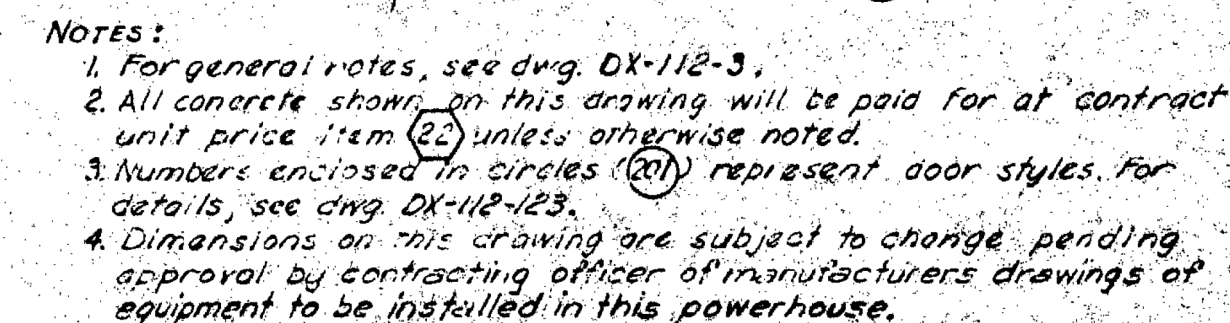
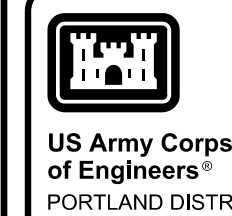
U.S. Army Corps of Engineers
PORTLAND DISTRICT

BCOES REVIEW

DESIGNED BY: D. M. HARRIS, P.E.
DRAWN BY: D. M. HARRIS, P.E.
CHECKED BY: D. M. HARRIS, P.E.
REVIEWED BY: D. M. HARRIS, P.E.
DATE: 10/10/2022
SHEET: 10102202
PROJECT: DEXTER DAM AND RESERVOIR
ADULT FISH FACILITY UPGRADE
PORTLAND DISTRICT
PORTLAND, OREGON

DEMOLITION
FISHWAY

SHEET
IDENTIFICATION
SD102



PLAN AT ELEVATION 660
GENERATOR AND ASSEMBLY FLOOR

SCALE IN FEET
2 0 2 4 6 8 10 12 14

AS CONSTRUCTED

Contract No. _____
Contract No. _____
Contractor _____
City _____
Notice to proceed _____
Completion Date _____

A	1-29-60	11/2 Drilling SUPERSEDES Dr-112-161 Sept	780
A		As constructed	
A	5-23-54	Slab under tracks revised	620
D	1-26-54	Runner assembly recessed	620
C	11-25-54	Cover 12 added and bruckout revised	620
A	7-9-53	General rev. items	5110
A	5-5-59	General revisions	5110

DA-35-026-Eng-20464
Mc Nutt-Montag
4/13/
3-12-0

DESIGNED BY WALLA WALLA DISTRICT OFFICE OF THE DISTRICT ENGINEER, WALLA WALLA, WASHINGTON.		REVIEWED BY <i>M. C. [Signature]</i>		CONCRETE OUTLINE PLAN AT ELEVATION 660	
SUPERVISOR <i>[Signature]</i>		SUPERVISOR <i>[Signature]</i>		APPROVED: DATE 1-25-33	
RECOMMENDED BY <i>[Signature]</i>		CHECK STRUCTURE DESIGN SUBMITTED		CHECKER'S DISTRICT ENGINEER	
APPROVES DATE 3 No. 1982		CHECKER'S NAME <i>[Signature]</i>		SCALE AS SHOWN SPEC. NO.	
DISTRICT ENGINEER <i>[Signature]</i>		RECOMMENDED BY <i>[Signature]</i>		SHEET 49 OF 41 DX-112-41	
COLONEL, C.E. DISTRICT ENGINEER		CHECK CONSTRUCTION DETAILS			

IMPORTANT: THIS DRAWING SHOWS DEMOLITION IN
COLOR AND IS INTENDED TO BE PRINTED IN COLOR

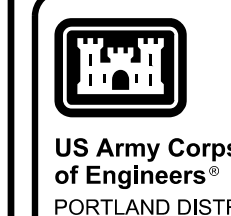
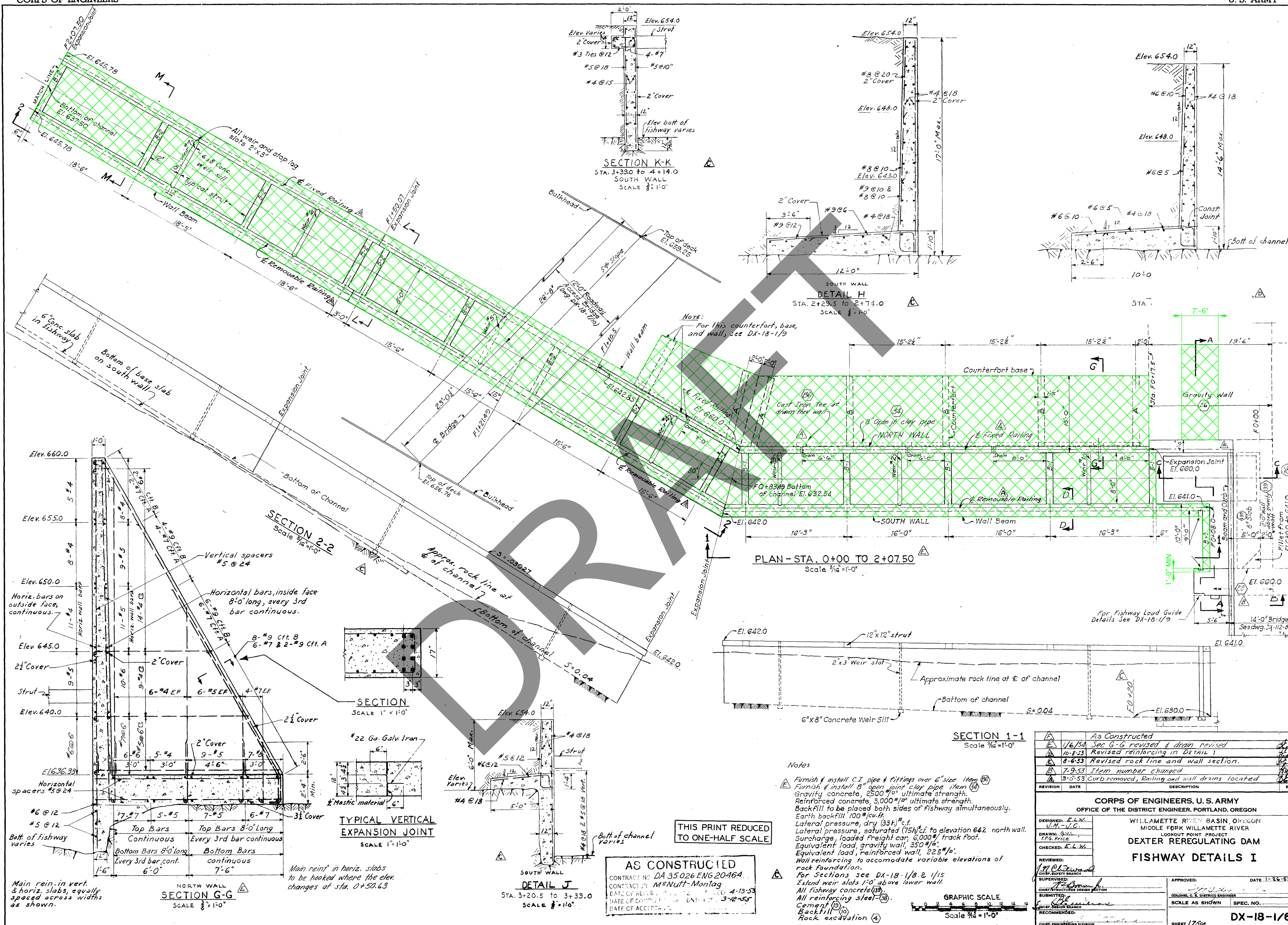
BCOES REVIEW

[illegible]

U.S. ARMY CORPS OF ENGINEERS PORTLAND DISTRICT PORTLAND, OREGON	DESIGNED BY:	CARL M. HARRIS P.E.	DATE:	10/07/2022
		DRAWN BY:	JOSHUA L. WATSON	
		CHECKED BY:	WILLIAM J. EMMERT	PROJECT NO.:
		IN CHARGE:	SCOTT R. GUNTER	WO 1972-00800
		SUBMITTED TO:	MATTHEW D. HANSON P.E.	CONTRACT NO.:
		PLOT SCALE:	1:1	FILE NUMBER:
	SIZE:	A	FILE NAME:	1/20/2022
		ANSI F	DXF:	101_S0102.dgn

DEXTER DAM AND RESERVOIR
ADULT FISH FACILITY UPGRADE

SHEET
IDENTIFICATION
SD103

US Army Corps
of Engineers
PORTLAND DISTRICT

BCOES REVIEW

DESIGNED BY: U.S. ARMY CORPS OF ENGINEERS
DRAWN BY: D. M. HARRIS, P.E.
CHECKED BY: J. M. HARRIS, P.E.
SUBMITTED BY: MATHIEU D. HARRIS, P.E.
PLOT SCALE: 1/2"=1'-0"
DATE: 10/10/2022
SHEET: 10/10/2022
FILE NAME: DX-18-1/6.dgn
SIZE: 10/10/2022
ANSI: 10/10/2022

DEXTER DAM AND RESERVOIR
ADULT FISH FACILITY UPGRADESHEET
IDENTIFICATION
SD104IMPORTANT: THIS DRAWING SHOWS DEMOLITION IN
COLOR AND IS INTENDED TO BE PRINTED IN COLOR



BCOES REVIEW

U.S. ARMY CORPS OF ENGINEERS	DESIGNED BY:	DATE:
PORTLAND DISTRICT	CARL M. HARRIS, P.	7/10/2022
PORTLAND, OREGON	DRAWN BY:	SOLICITATION NO.:
	EMITRELL, TANNER, PE	W9127J22A0005
	SUBMITTED BY:	CONTRACT NO.:
	JOHN HANSON, P.E.	
	TOTAL SCALE:	FILE NUMBER:
	AS SHOWN	100/200'
	SIZE:	FILE NAME:
	ANSI F	DXF:101_501005.dwg

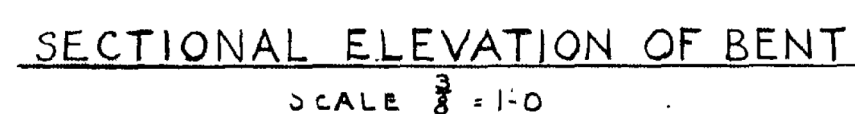
DEXTER DAM AND RESERVOIR ADULT FISH FACILITY UPGRADE

SHEET
IDENTIFICATION
SD105

IMPORTANT: THIS DRAWING SHOWS DEMOLITION IN
COLOR AND IS INTENDED TO BE PRINTED IN COLOR



U. S. ARMY



GENERAL NOTES:
Lumber grading - Standard rules - West Coast
Lumber Association. #14.

Description	Paragraph	Material
Deck Plank, S1E	204	Fir
Joists, Sized at bear.	214	"
Caps, S1E	214	"
Post, Bracing, Bulkhead	205-218	"
Sills, S1E	218	"
Felloe guard, S1S1E	218	"
Handrail, S4S	205	"

Metal work:
Bolts, $\frac{3}{4}$ unless otherwise shown; malleable washers.
Galvanized thru handrail only.
Bolt holes $\frac{1}{2}$ ϕ . Drift holes $\frac{1}{16}$ less than drift.
One $\times 8$ spike thru deck to each joist.

Treatment:
All lumber except handrail to be creosote pressure treated. Where cutting or dapping is done, apply 2 coats hot creosote oil.

Painting:
Handrail and rail posts to receive 2 coats
of approved wood paint. Color as directed.

Bridging:
2x6 bridging at each midspan. Each piece to be nailed to stringers with 2-16d. nails at each end. Stringers to be nailed to cap with 2-30d nails at each end.

Capacity:
H-15 Oregon State



Standard Fixed Railings
See Dwg. # DX-18-1/A

ELEVATION
SCALE $\frac{3}{8}" = 1'-0"$

SECTIONAL ELEVATION OF BULKHEAD
SCALE $\frac{3}{8}'' = 1'-0''$

AS CONSTRUCTED

CONTRACT NO. DA35-026 Eng-20464
 CONTRACTOR: MENutt-Montag
 DATE OF REPORT: 4-13-55
 DATE OF COMPLETION: 3-12-55
 DATE OF PREPARED: 3-12-55

 As Constructed 3-5-53 <i>Pipe railing indicated</i>			
REVISION	DATE	DESCRIPTION	BY
<p align="center">CORPS OF ENGINEERS, U.S. ARMY OFFICE OF THE DISTRICT ENGINEER, PORTLAND, OREGON</p>			
DESIGNED: <i>E.H.W.</i> <i>J.M.</i>		WILLAMETTE RIVER BASIN OREGON MIDDLE FORK WILLAMETTE RIVER LOOKOUT POINT PROJECT	
DRAWN: <i>J.R.G. Price</i>		DEXTER REREGULATING DAM	
CHECKED: <i>E.H.W.</i>			
REVIEWED:			
<i>McConnell</i>			
SUPERVISED: <i>McConnell</i>		APPROVED: <i>McConnell</i> DATE: 1-26-55	
CHIEF, DISTRICT DESIGN SECTION		COLONEL, U.S. DISTRICT ENGINEER	
SUBMITTED: <i>McConnell</i>		SCALE AS SHOWN SPEC. NO.	
RECOMMENDED:		SHEET 179 OF	
CHIEF, ENGINEERING SECTION		DX-18-1/10	

THIS PRINT REDUCED
TO ONE-HALF SCALE

SHEET 179 OF DX-18-1/10

IMPORTANT: THIS DRAWING SHOWS DEMOLITION IN
COLOR AND IS INTENDED TO BE PRINTED IN COLOR

BCOES REVIEW

U.S. ARMY CORPS OF ENGINEERS PORTLAND DISTRICT PORTLAND, OREGON	DESIGNED BY: CARL M. HARRIS, P.E.		DATE: 10/01/2022
	OWN BY: E MITCHELL		SOLICITATION NO.: V9127N23R0005
	SUBMITTED BY: MATTHEW D. HANSON, P.E.		CONTRACT NO.:
	PLOT SCALE: 1:1		FILE NUMBER:
SIZE:		FILE NAME:	

DEXTER DAM AND RESERVOIR
ADULT FISH FACILITY UPGRADE

SHEET
IDENTIFICATION
SD106