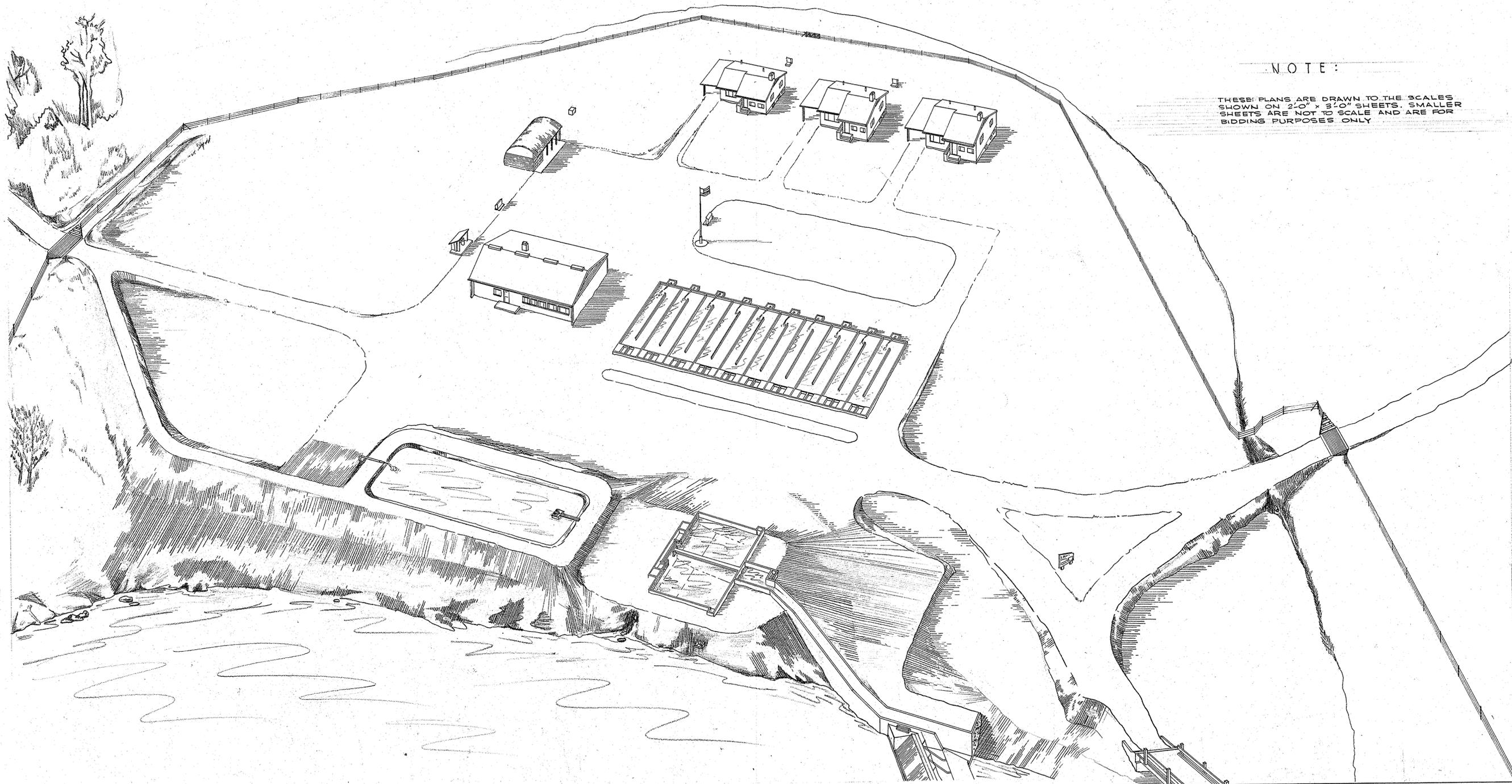


GRAYS RIVER

SALMON HATCHERY



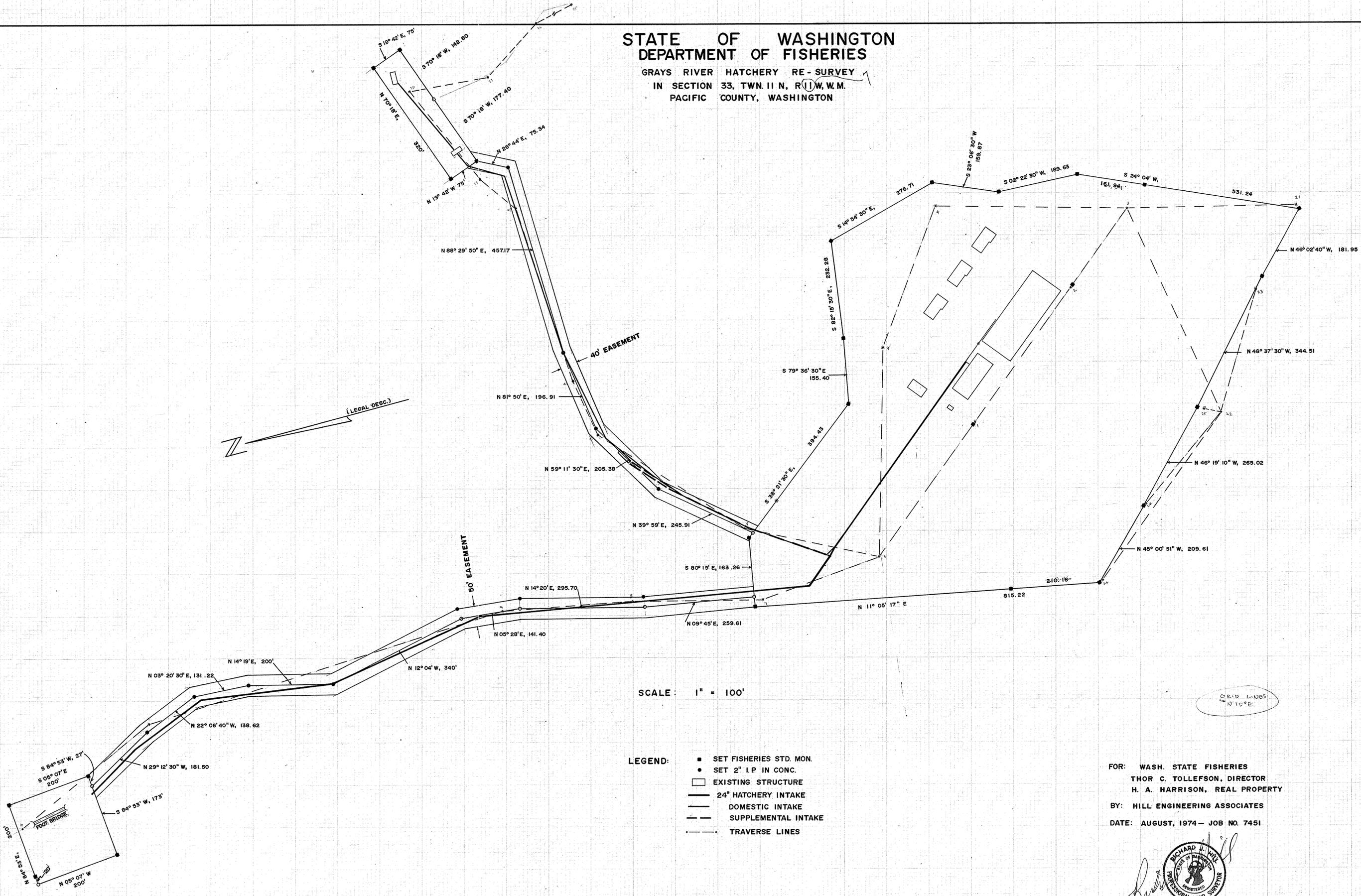
NOTE:

THESE PLANS ARE DRAWN TO THE SCALES SHOWN ON 2'-0" x 3'-0" SHEETS. SMALLER SHEETS ARE NOT TO SCALE AND ARE FOR BIDDING PURPOSES ONLY.

STATE OF WASHINGTON DEPT OF FISHERIES

STATE OF WASHINGTON
DEPARTMENT OF FISHERIES

GRAYS RIVER HATCHERY RE - SURVEY
IN SECTION 33, TWN. 11 N, R. 11 W, W.M.
PACIFIC COUNTY, WASHINGTON

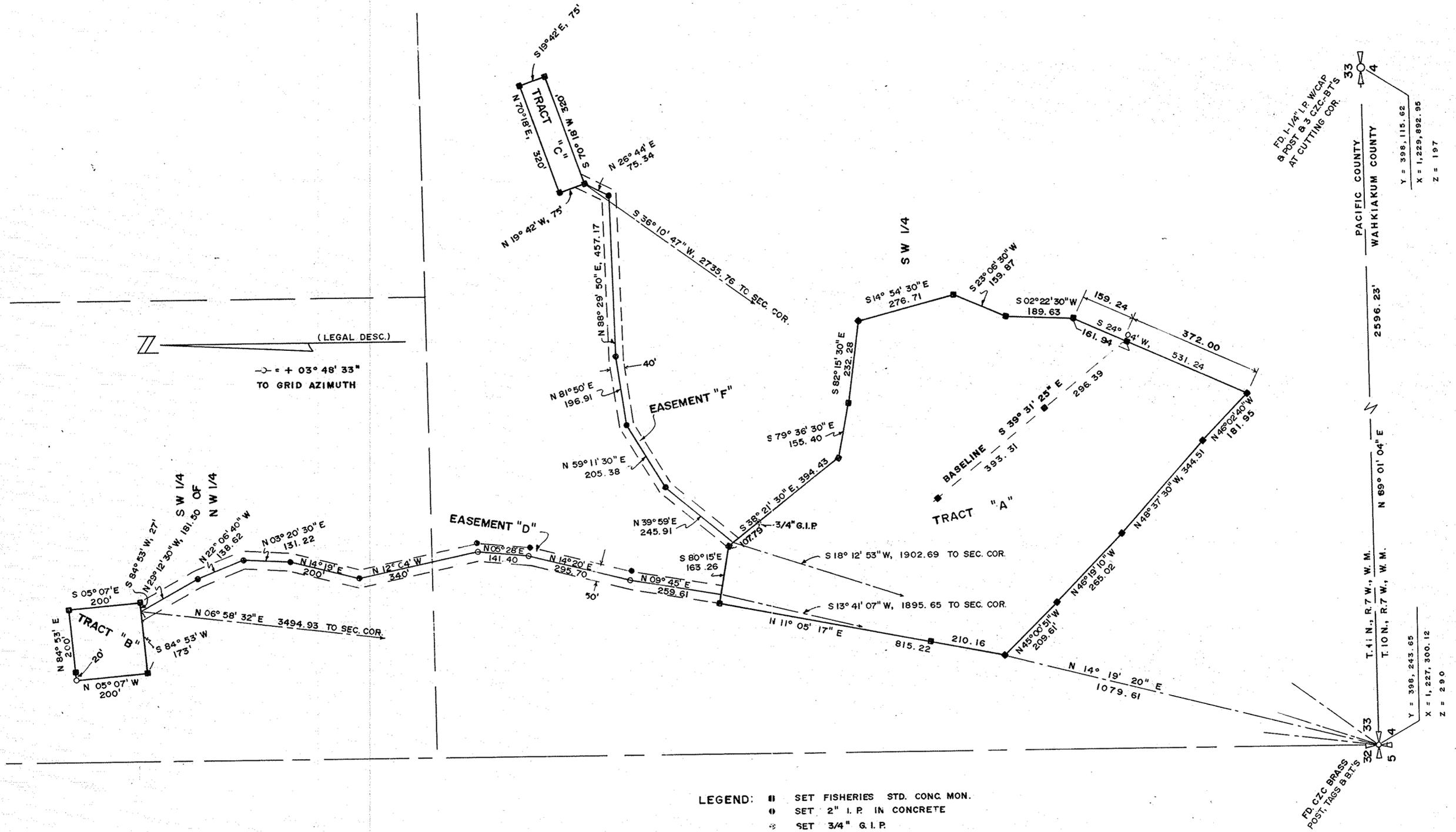


SCALE: 1" = 100'

- LEGEND:
- SET FISHERIES STD. MON.
 - SET 2" I.P. IN CONC.
 - ▭ EXISTING STRUCTURE
 - 24" HATCHERY INTAKE
 - DOMESTIC INTAKE
 - - - SUPPLEMENTAL INTAKE
 - TRAVERSE LINES

FOR: WASH. STATE FISHERIES
THOR C. TOLLEFSON, DIRECTOR
H. A. HARRISON, REAL PROPERTY
BY: HILL ENGINEERING ASSOCIATES
DATE: AUGUST, 1974 - JOB NO. 7451





LEGEND: ■ SET FISHERIES STD. CONC. MON.
 ○ SET 2" I.P. IN CONCRETE
 * SET 3/4" G.I.P.

NOTE: STATE CO-ORDS FROM B. P. A. CONTROL TRAVERSE STATION "ELK" & "GRAYS"

GRAYS RIVER

AUDITOR'S CERTIFICATE
 Filed for record this _____ day of _____ 19____ at _____ M
 in book _____ of _____ at page _____ at the request of _____

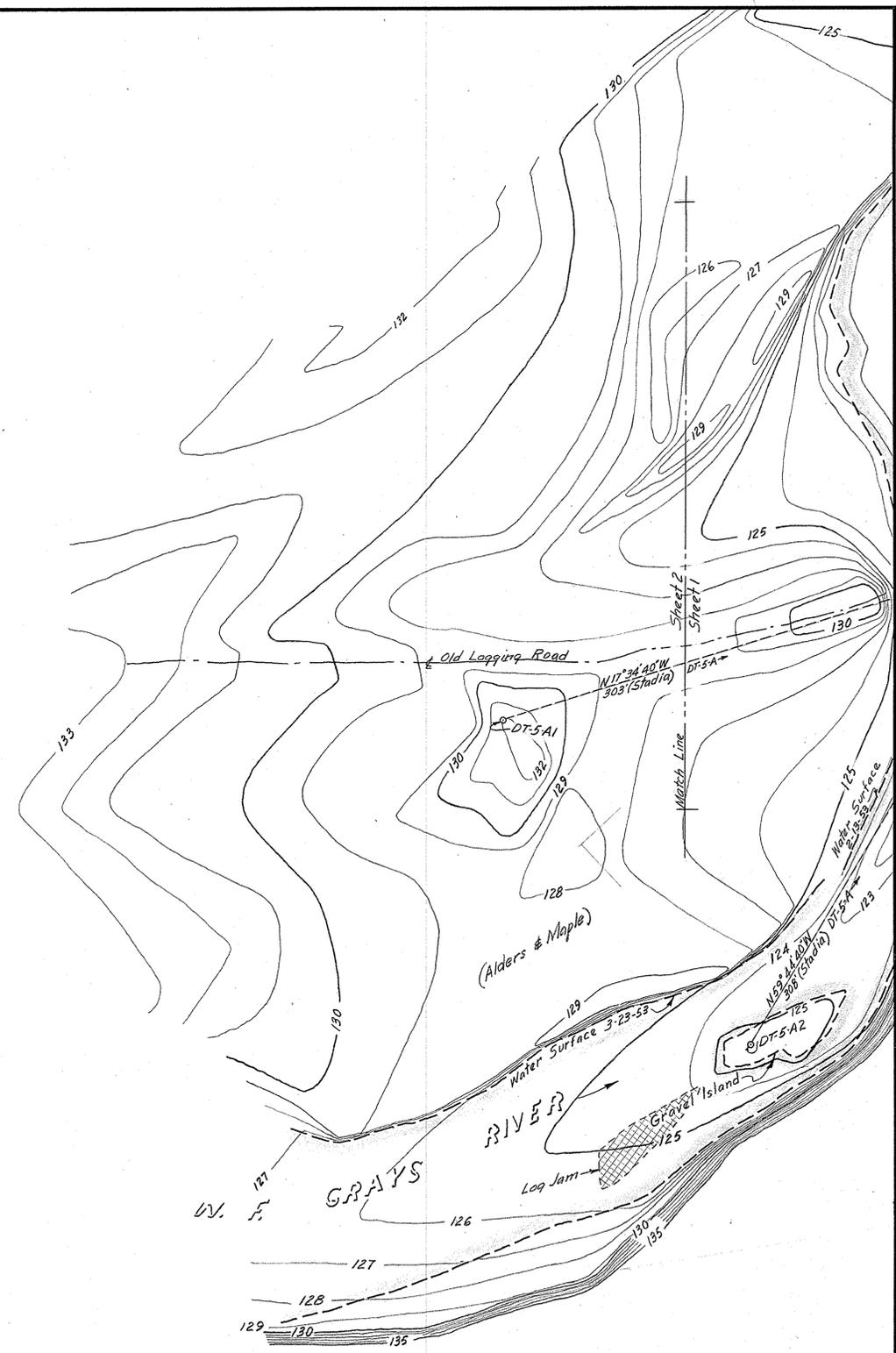
 County Auditor

SURVEYOR'S CERTIFICATE
 This map correctly represents a survey made by me or under my direction in conformance with the requirements of the Survey Recording Act at the request of WASHINGTON STATE FISHERIES in MAY-JULY, 1974...
Richard J. Hill
 Certificate No. 9349



LEGAL DESCRIPTION:
 TRACTS "A", "B" & "C" AS RECORDED IN BOOK 181 OF DEEDS, PAGE 257, PACIFIC COUNTY AUDITOR'S AND EASEMENTS "D" & "F" AS RECORDED IN SAID BOOK 181 AT PAGES 258 & 259.

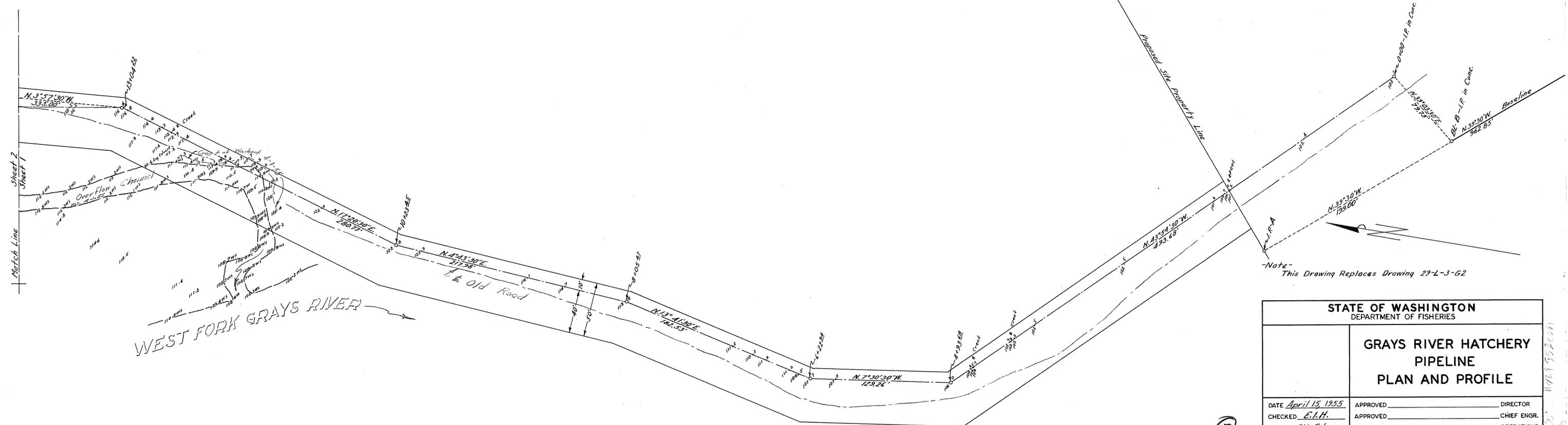
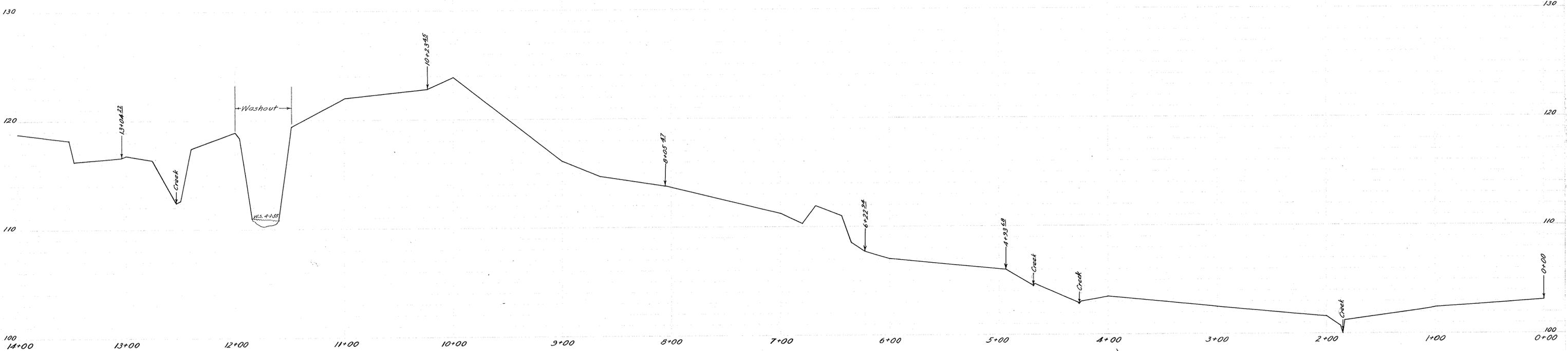
HILL ENGINEERING ASSOCIATES LONG BEACH, WASHINGTON		
OWN BY GM & RH	DATE JUNE-JULY, 1974	JOB NO. 7451
CHKD BY RH	SCALE 1" = 200'	SHEET 1 OF 1



NOTE: 
 For Location of Intake Site - See Dws 29-L-9-G3

DATE		REVISION	
STATE OF WASHINGTON DEPARTMENT OF FISHERIES			
GRAYS RIVER HATCHERY CONTOURS OF INTAKE SITE			
APPROVED	NO.	DIRECTOR	
APPROVED	NO.	CHIEF ENG.	
CHECKED <i>E. J. Hamerford</i>		DRAWN BY SENIOR	
SCALE 1" = 40'		DATE MAR 25, 1953	
DWG. NO.		FILE NO.	

10-29-53-2

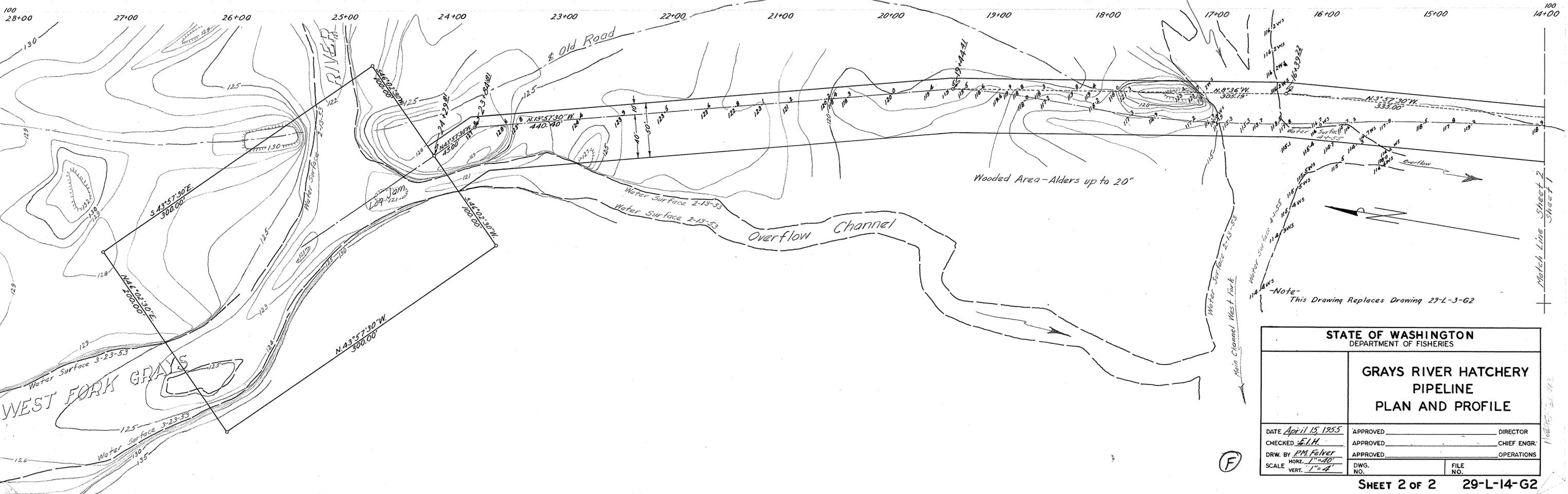


Note - This Drawing Replaces Drawing 29-L-3-G2

STATE OF WASHINGTON DEPARTMENT OF FISHERIES	
GRAYS RIVER HATCHERY PIPELINE PLAN AND PROFILE	
DATE <u>April 15, 1955</u>	APPROVED _____ DIRECTOR
CHECKED <u>E.L.H.</u>	APPROVED _____ CHIEF ENGR.
DRW. BY <u>P.M. Felver</u>	APPROVED _____ OPERATIONS
SCALE HORZ. <u>1"=20'</u> VERT. <u>1"=4'</u>	DWG. NO. _____ FILE NO. _____

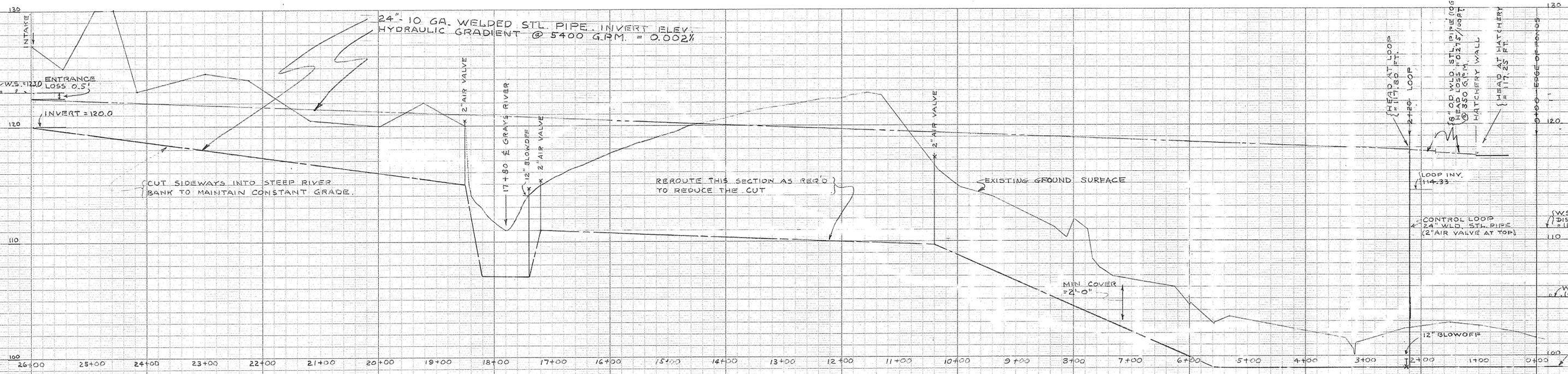
(F)

4921552601

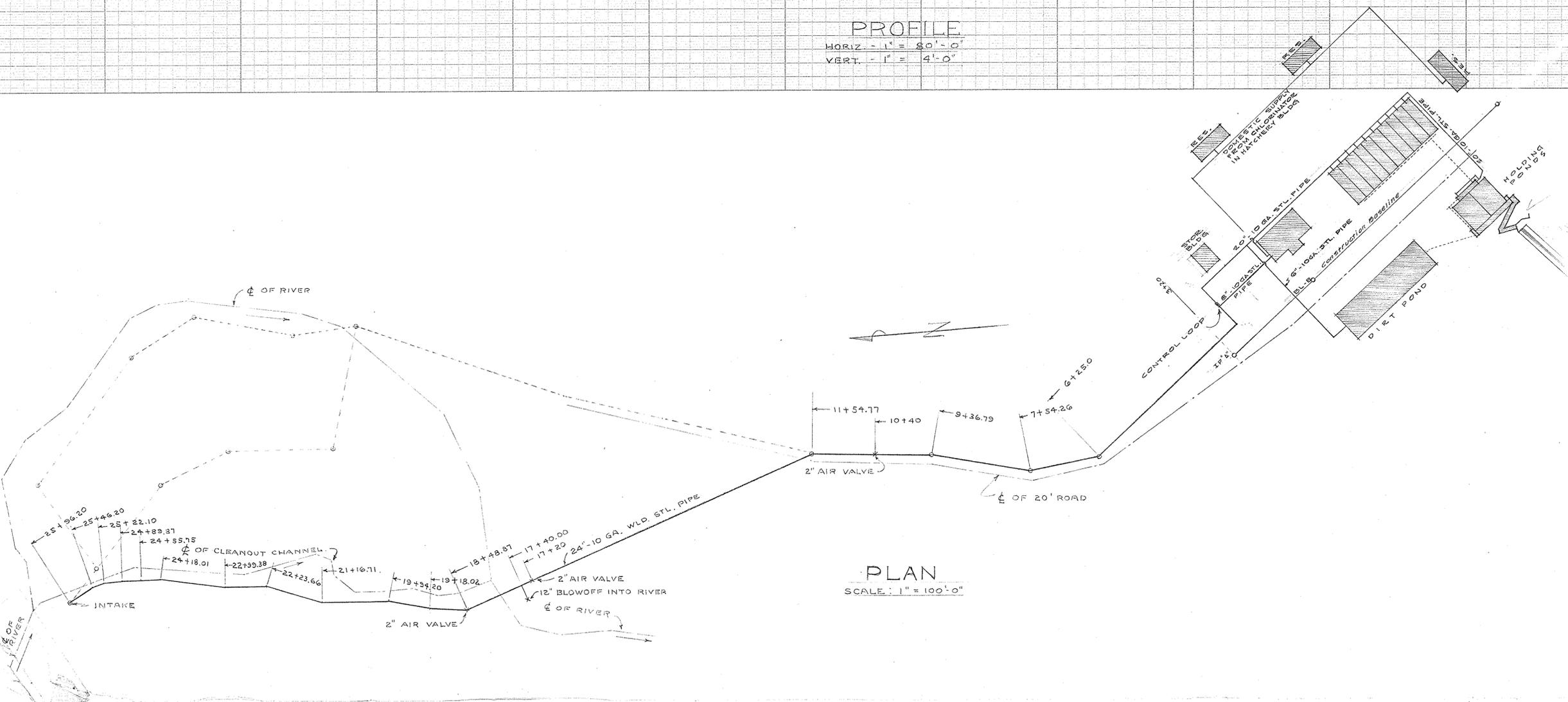


STATE OF WASHINGTON DEPARTMENT OF FISHERIES	
GRAYS RIVER HATCHERY PIPELINE PLAN AND PROFILE	
DATE <u>April 15, 1955</u>	APPROVED _____ DIRECTOR
CHECKED <u>E.L.H.</u>	APPROVED _____ CHIEF ENGR.
DRW. BY <u>P.M. Følver</u>	APPROVED _____ OPERATIONS
SCALE HORIZ. <u>1"=20'</u> VERT. <u>1"=4'</u>	DWG. NO. _____ FILE NO. _____

Note - This Drawing Replaces Drawing 29-L-3-62



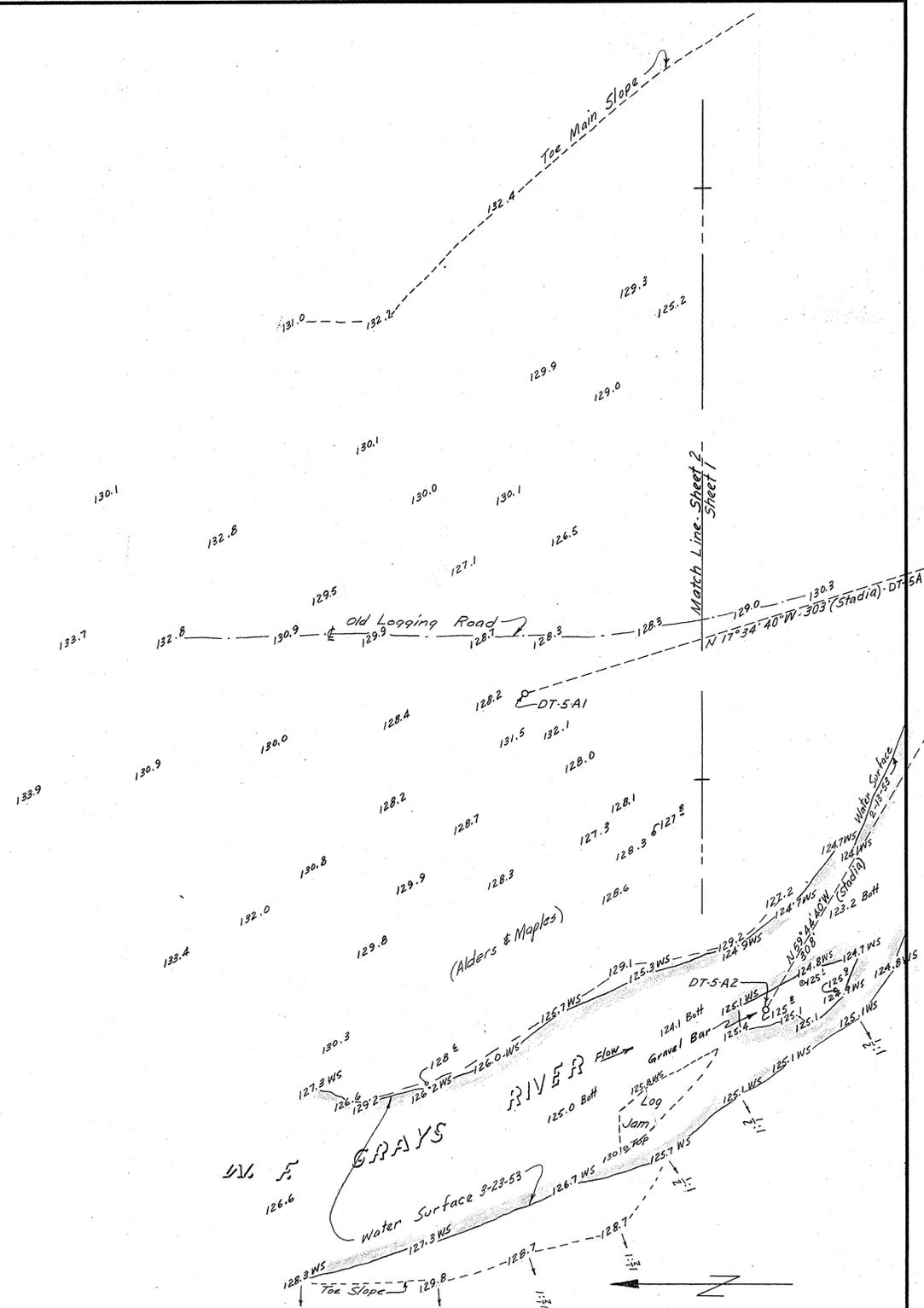
PROFILE
 HORIZ. - 1" = 80'-0"
 VERT. - 1" = 4'-0"



PLAN
 SCALE: 1" = 100'-0"

STATE OF WASHINGTON DEPARTMENT OF FISHERIES		
GRAYS RIVER HATCHERY		
SUPPLY LINE PLAN & PROFILE		
DATE 5/23/58	APPROVED <i>[Signature]</i> DIRECTOR	
CHECKED	APPROVED <i>[Signature]</i> CHIEF ENGINEER	
DRW. BY SPN	APPROVED <i>[Signature]</i> OPERATOR	
SCALE SHOWN	DWG. NO.	FILE NO.

(F)



NOTE:
For Location of Intake Site See DWS 29-L-9-G3

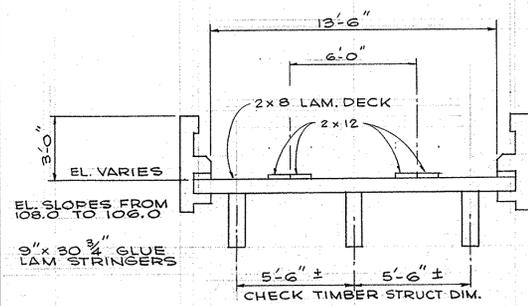
DATE		REVISION	
STATE OF WASHINGTON DEPARTMENT OF FISHERIES			
GRAYS RIVER HATCHERY TOPOG OF INTAKE SITE			
APPROVED	NO.	APPROVED	DIRECTOR
APPROVED		APPROVED	CHIEF ENG.
CHECKED <i>E. J. Humphreys</i>		DRAWN BY	SENIOR
SCALE 1" = 40'		DATE	MAR 24 1953
DWG. NO.		FILE NO.	

(F)

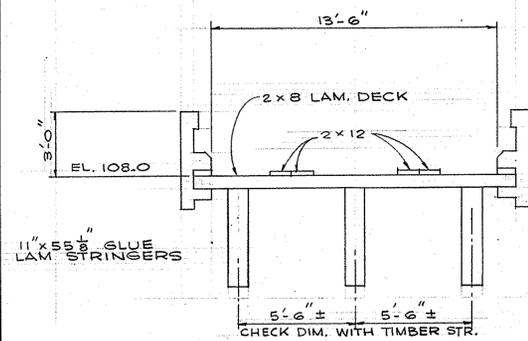


DATE		REVISION	
STATE OF WASHINGTON DEPARTMENT OF FISHERIES			
GRAYS RIVER HATCHERY SITE TOPOGRAPHY			
PRINTED	NO.	APPROVED	DIRECTOR
			CHIEF ENG.
		CHECKED <i>L3 - (traced)</i>	DRAWN BY <i>Hannaford</i>
		SCALE 1" = 40'	DATE 5-21-49
DWG. NO.		FILE NO.	

10292001



SECTION **(A)**



SECTION **(B)**

SECTIONS THRU BRIDGE

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

FASTEN MAIN SPAN STRINGERS TO SO. ABUTMENT & MIDDLE PIER. DETERM. TYPE BY DESIGN OF BRIDGE (ON APPROVAL OF FISHERIES ENGR.)

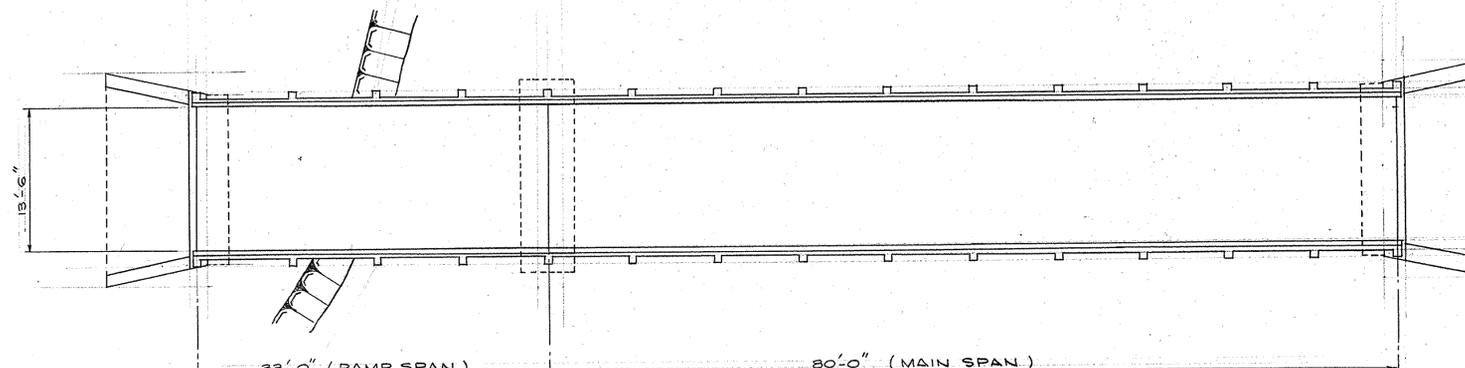
MAIN SPAN BEAM

FASTEN RAMP SPAN STRINGER TO NORTH ABUTMENT & MIDDLE PIER. DETERM. TYPE BY DESIGN OF BRIDGE (ON APPROVAL OF FISHERIES ENGR.)

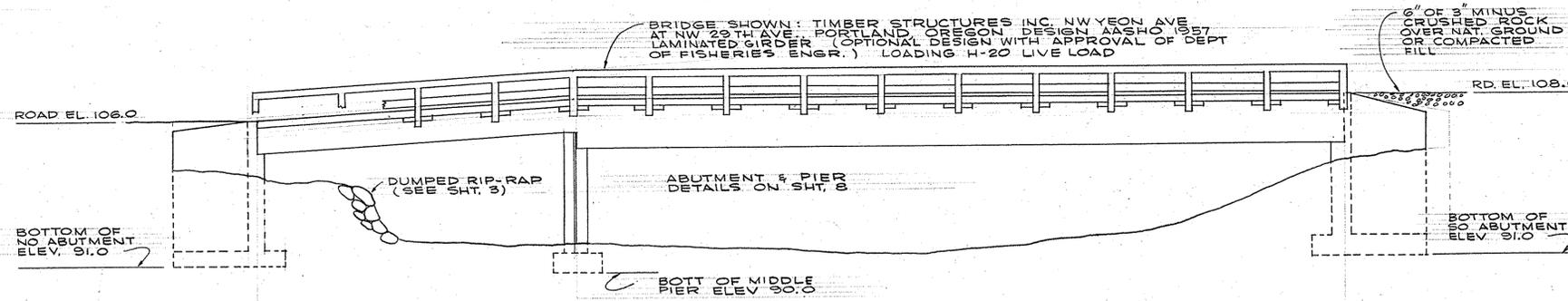
RAMP SPAN BEAM

BEAM CONNECTION DET.

SCALE: 1" = 1'-0"



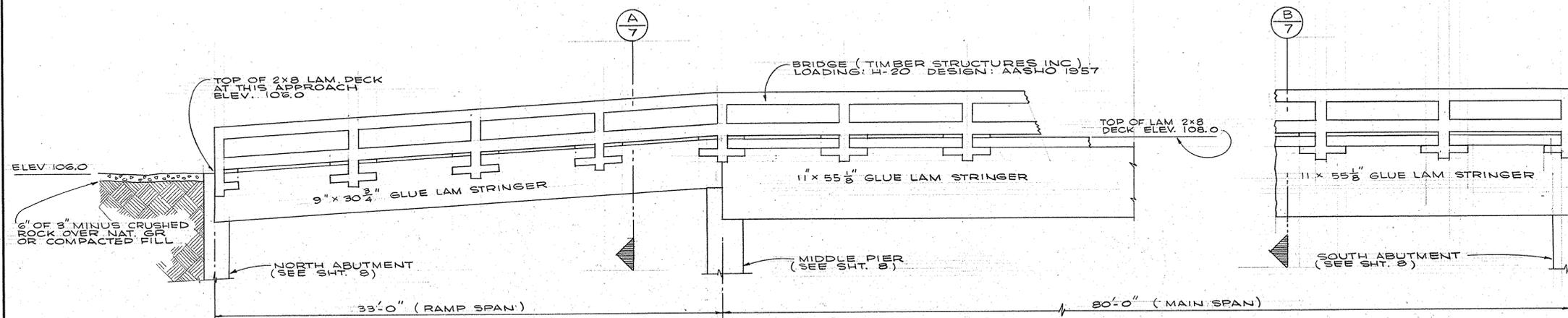
TOP VIEW



ELEVATION

ACCESS BRIDGE LAYOUT

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



ACCESS BRIDGE - SIDE VIEW

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

SYMBOL	DATE	REFERENCE	REVISION	BY	APP'D

STATE OF WASHINGTON
DEPARTMENT OF FISHERIES



GRAYS RIVER HATCHERY
ACCESS BRIDGE
BRIDGE LAYOUT
& SECTIONS

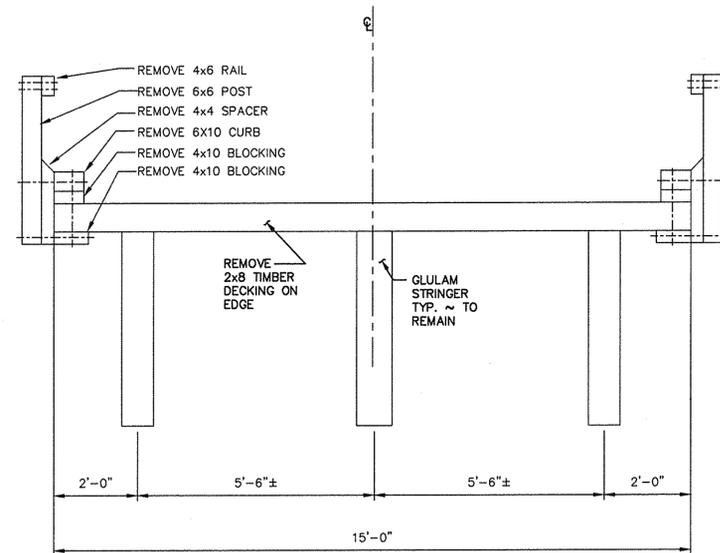
DATE *May 3, 1960*
CHECKED *R.S.C.*
DRW. BY *Kawaguchi*
SCALE *As shown*

APPROVED *[Signature]* DIRECTOR
APPROVED *[Signature]* CHIEF ENGR.
APPROVED *[Signature]* OPERATIONS

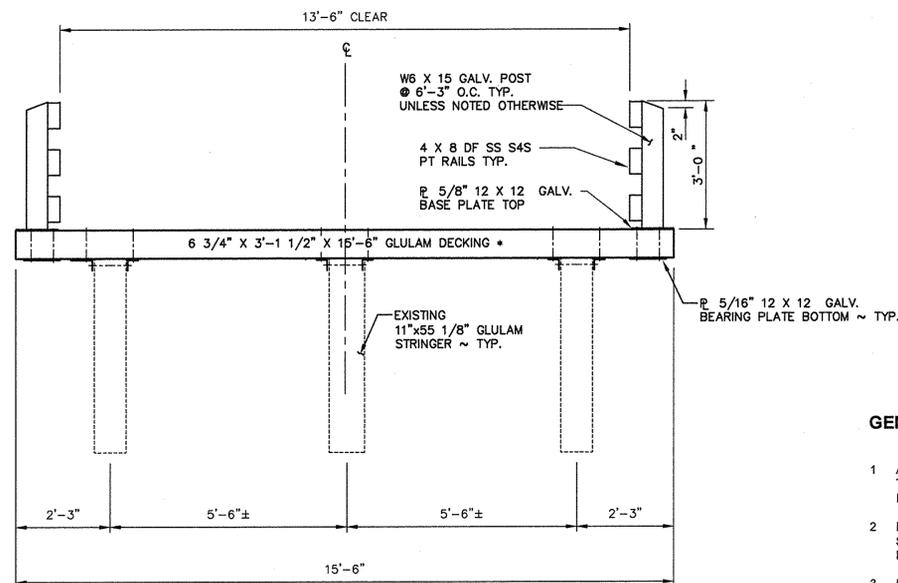
DWG. NO. 2960-7
FILE NO.

(F)

H02960 2c 09 7

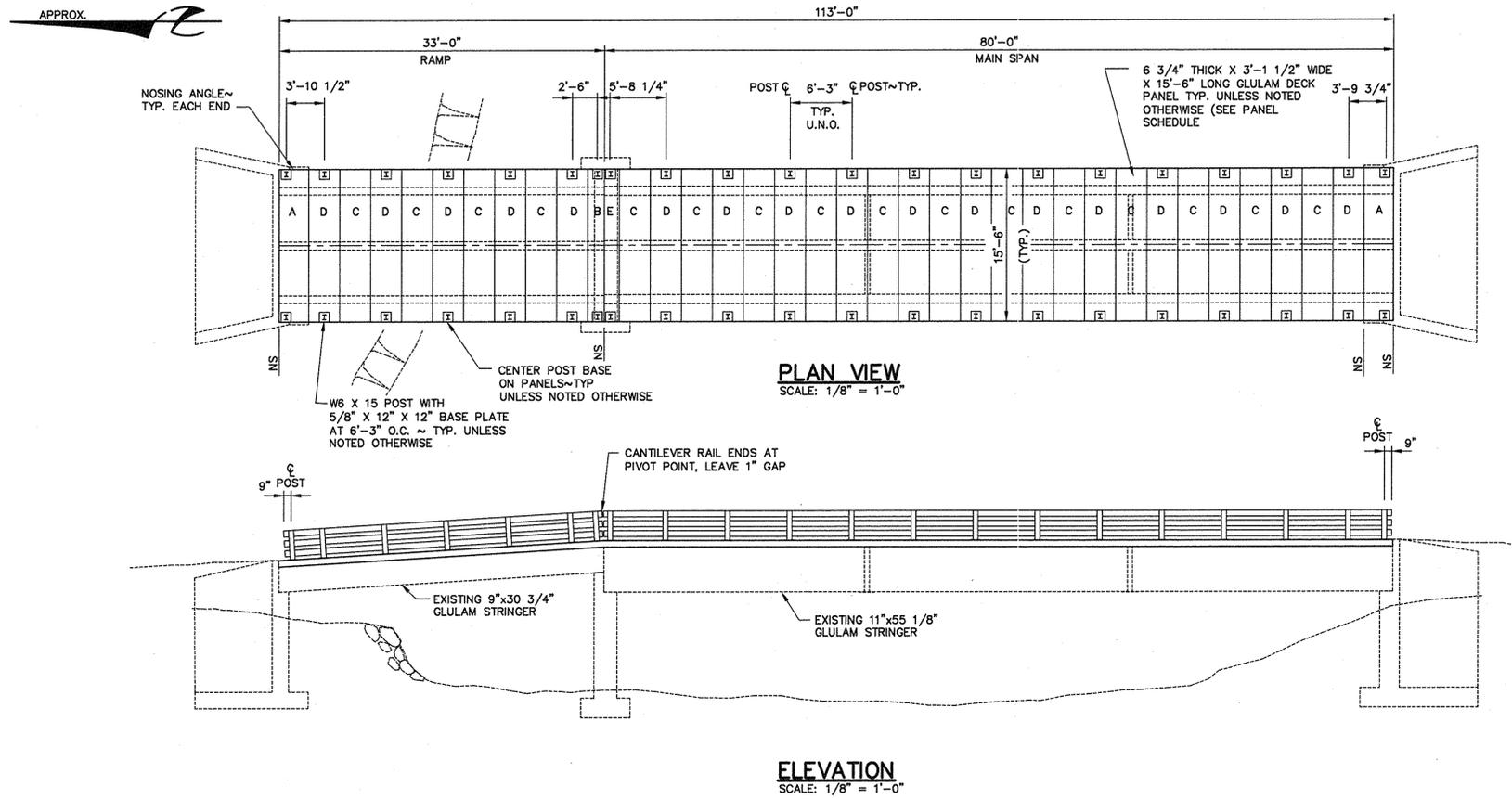


**TYPICAL SECTION
EXISTING MAIN SPAN**
SCALE: 1/2" = 1'-0"



**TYPICAL SECTION
NEW MAIN SPAN**
SCALE: 1/2" = 1'-0"

(RAMP SIMILAR)
9"x30 3/4" STRINGER
* SEE PANEL SCHEDULE



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

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

ABBREVIATIONS
N.S. = NO SPACE
U.N.O. = UNLESS NOTED OTHERWISE

GENERAL NOTES

- ALL EXISTING DECKING, POSTS, RAILING, APPURTENANCES AND ATTACHMENT HARDWARE TO BE REMOVED BY OWNER AND REPLACED WITH FABRICATOR SUPPLIED MATERIALS AS INDICATED.
- RAILING PLACEMENT LENGTH TO BE 12 FEET 6 INCHES CONTINUOUS WITH ALTERNATE SPLICES AS SHOWN, EXCEPT AT BRIDGE ENDS. CANTILEVER RAIL ENDS AT PIVOT POINT LEAVING 1 INCH GAP BETWEEN RAIL ENDS.
- POST SPACING 6 FOOT 3 INCHES EXCEPT AT ENDS AND PIVOT POINT AS SHOWN.

PANEL SCHEDULE (FABRICATOR SUPPLIED)

- CENTER ALL POSTS ON PANELS EXCEPT AT END PANELS AS SHOWN.
- PANEL LAYOUT ASSUMES SPACES BETWEEN PANELS SHALL BE 3/4 INCH EXCEPT AS INDICATED "NS" (NO SPACE). MAKE ANY REQUIRED FIELD ADJUSTMENTS AT PIVOT POINT PANELS.
- PRE-DRILL ALL HOLES PRIOR TO TREATMENT

MARK	SIZE	NUMBER
A	6 3/4 INCH THICK BY 36 INCHES WIDE BY 15 FEET 6 INCHES LONG	2
B	6 3/4 INCH THICK BY 21 INCHES WIDE BY 15 FEET 6 INCHES LONG	1
C	6 3/4 INCH THICK BY 36 INCHES WIDE BY 15 FEET 6 INCHES LONG	16
D	6 3/4 INCH THICK BY 37.5 INCHES WIDE BY 15 FEET 6 INCHES LONG	17
E	6 3/4 INCH THICK BY 24 INCHES WIDE BY 15 FEET 6 INCHES LONG	1

MATERIALS LIST (FABRICATOR SUPPLIED)

GLULAM PANELS

TYPE: VISUALLY GRADED WESTERN SPECIES COMBINATION 2 DF, INDUSTRIAL APPEARANCE, 100% WATERPROOF GLUE WITH 1 1/2 INCH LAMINATIONS. PANELS ARE TO BE COMPLETELY FABRICATED, INCLUDING THE PREDRILLING OF HOLES PRIOR TO TREATMENT.

SIZE: SEE PANEL SCHEDULE

TREATMENT: PENTA (40 PCF) AFTER FABRICATION

SAWN LUMBER RAILS

HOLES ARE NOT TO BE PREDRILLED.

TYPE: DF SELECT STRUCTURAL S4S

SIZE: 4 X 8 ~ 12 FEET 6 INCHES LONG CONTINUOUS OVER 3 POSTS WITH ALTERNATE SPLICES

TREATMENT: ACZA (40 PCF) AFTER FABRICATION

PLYWOOD SPACERS

TYPE: APA MARINE A-A PLYWOOD EXTERIOR GLUE PS-1-83

SIZE: 3/4 INCH THICK X WIDTH OF STRINGER (9 INCHES & 11 INCHES) X 8 FEET.

TREATMENT: ACZA (40 PCF) AFTER FABRICATION

FABRICATED STEEL

ALL FABRICATED STEEL TO BE GALVANIZED AFTER FABRICATION.

POSTS: W6 X 15 - Fy=50 KSI

BASE PLATE: PLATE 5/8 INCH BY 12 INCH BY 12 INCH - Fy= 50 KSI

BEARING PLATE: PLATE 5/16 INCH BY 12 INCH BY 12 INCH - Fy= 50 KSI

NOSING ANGLE: L 5 INCH X 3 1/2 INCH X 1/4 INCH THICK BY 13 FEET 3 INCHES LONG-Fy=36 KSI [EACH END OF BRIDGE]

ANGLE BRACKETS: L 5 INCH X 3 1/2 INCH X 1/4 INCH THICK BY 3 INCHES LONG-Fy=36 KSI [DECK TO STRINGER]

FASTENERS

ALL FASTENERS TO BE GALVANIZED A 307 STEEL

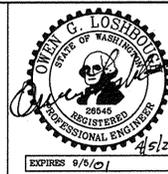
3/4 INCH BY 10 INCH MACHINE BOLT WITH NUT AND TWO FLAT WASHERS (ONE EACH END) [POST ASSEMBLY TO DECK]

5/8 INCH BY 10 INCH TIMBER BOLT WITH NUT AND FLAT WASHER [DECK TO STRINGER]

5/8 INCH BY 6 INCH LAG SCREW AND FLAT WASHER [DECK ANGLE BRACKET TO STRINGER] [NOSING ANGLE TO DECK]

1/2 INCH BY 6 INCH CARRIAGE BOLT WITH NUT AND TWO FLAT WASHERS (ONE EACH END) [RAIL TO POST]

WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE



SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
Asst. CHIEF ENGINEER		<i>Owen Loshbrow</i>	DATE: 4/5/20
PROGRAM			DATE: 3/29/2000

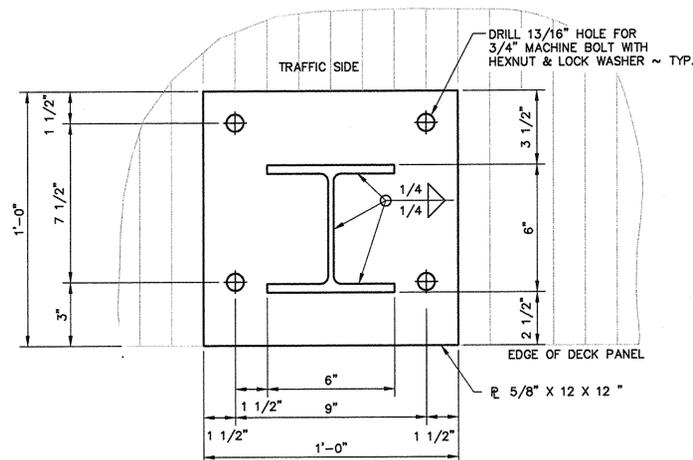
0 1"
BAR MEASURES
ONE INCH ON
ORIGINAL DRAWINGS

DESIGNED BY HB
CHECKED BY OL
DRAWN BY JPH
DATE: 3/29/2000

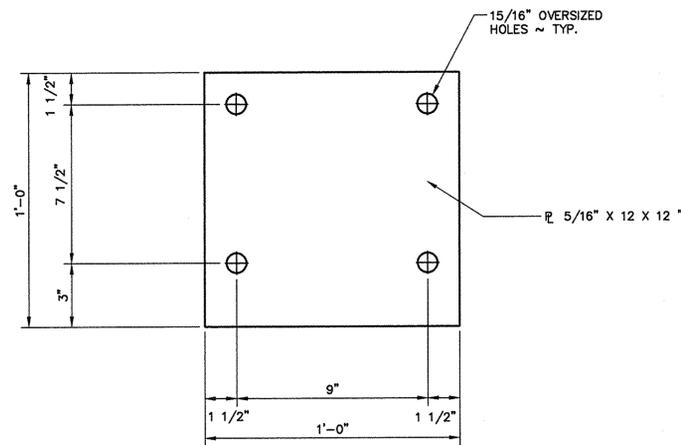
GRAYS RIVER HATCHERY
ACCESS BRIDGE
BRIDGE REPAIR
FABRICATION DRAWINGS

PROJECT NO.
PC:H29:99-1

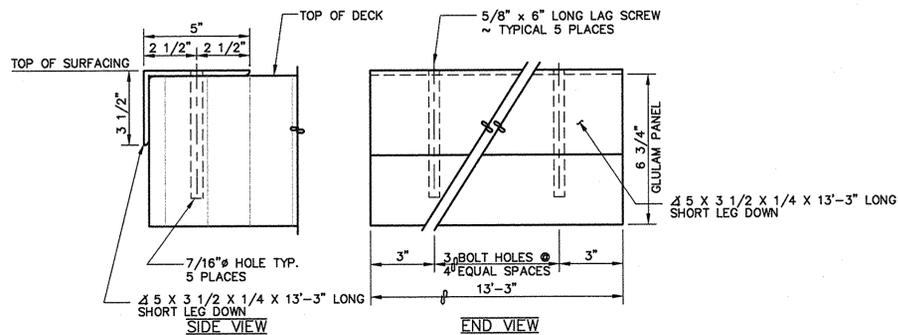
SHEET 1 OF 2



BASE PLATE
SCALE: 3" = 1'-0"

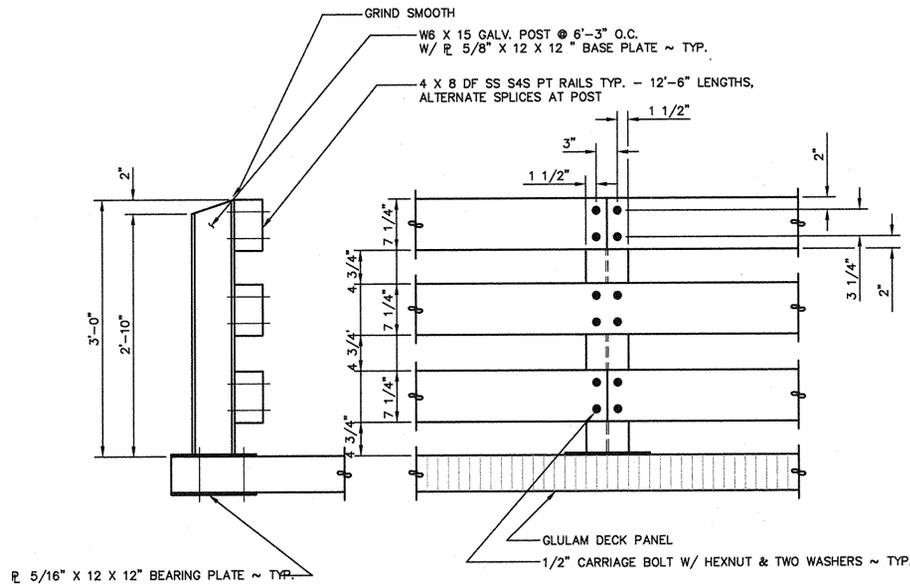


BEARING PLATE
SCALE: 3" = 1'-0"

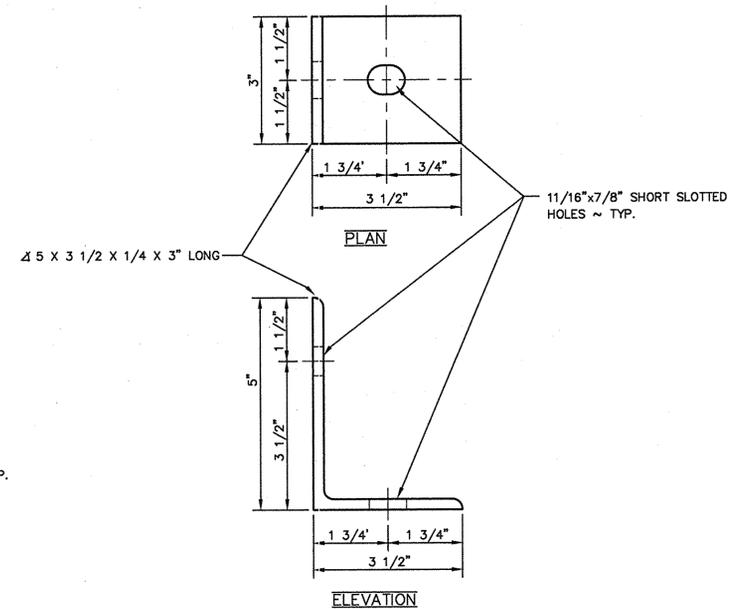


NOTE: 1) PLACE ONE NOSING ANGLE AT EACH END OF THE BRIDGE
2) SECURE EACH NOSING ANGLE WITH 5 LAG SCREWS - ONE 3" FROM EACH END AND THREE EQUALLY SPACED BETWEEN.

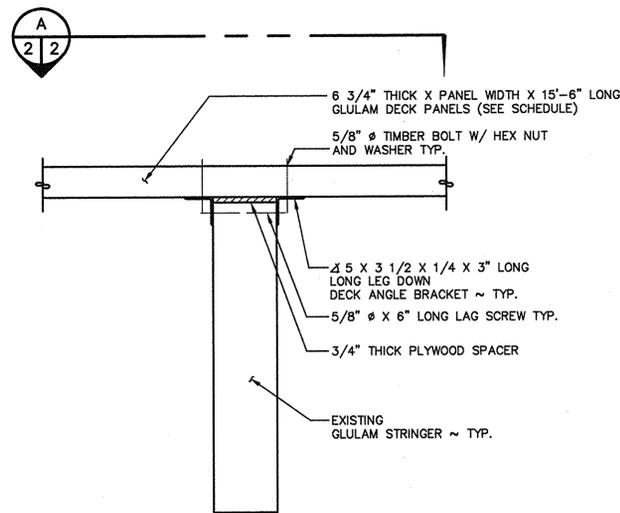
NOSING ANGLE
SCALE: 3" = 1'-0"



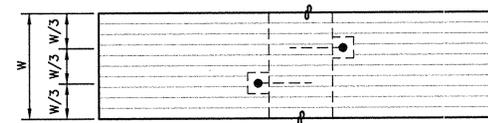
POST & RAIL CONNECTION
SCALE: 1" = 1'-0"



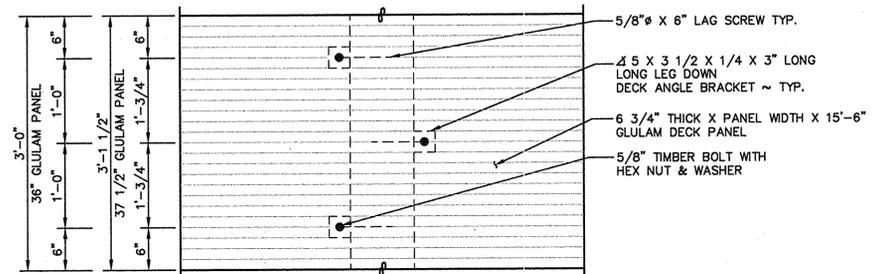
DECK TO STRINGER ANGLE BRACKET
SCALE: 6" = 1'-0"



DECK TO STRINGER CONNECTION
SCALE: 1" = 1'-0"

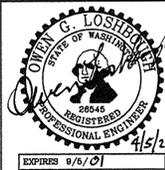


FRACTIONAL WIDTH PANEL
SCALE: 1" = 1'-0"
TYPICAL CONNECTION EACH STRINGER (2 CONNECTIONS)



TYPICAL SECTION
SCALE: 1" = 1'-0"
TYPICAL CONNECTION EACH STRINGER (3 CONNECTIONS)

WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE



SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
Asst. CHIEF ENGINEER		<i>Owen Loshoff</i>	DATE: 4/5/20
PROGRAM			DATE: 3/29/2000

GRAYS RIVER HATCHERY
ACCESS BRIDGE
BRIDGE REPAIR
FABRICATION DRAWINGS

PROJECT NO.
PC:H29:99-1
SHEET 2 OF 2

H29991C09.2

Justin Isle

From: Brown, Laura (DFW) <Laura.Brown@dfw.wa.gov>
Sent: Thursday, February 19, 2026 10:36 AM
To: Tammy Stout; Lund, Robert (DFW); Smith, Luke L (DFW)
Cc: Ploof, Jerrod S (DFW); Holtz, Michelle (DFW); Justin Isle; Pete Barber; Glaser, Bryce G (DFW)
Subject: RE: WDFW-CAMP Shannon Road Repairs and Cowlitz Tribe WF Grays Hatchery Intake Removal & Phase 1 Projects (Access/Coordination/Schedules)

WARNING: This email originated outside of the Cowlitz Indian Tribe. Please verify sender before replying, opening attachments or clicking on links.

Hey all,
Thanks for the connection. We met this morning with CAMP and Fish Program to discuss access to the hatchery via Shannon Road.

- 1) The bridge currently has no issues, just a standard amount of build up - no issues there.
- 2) Officially, we do not yet have a statement on the safety and accessibility of the quick fix/repair Schmand did of Shannon Road. After CAMP review, we now need to meet with our Safety Office. However, we are providing Safety Office with recommendations that we open the road with limitations (primarily to accommodate your efforts). We are very aware of the mid-April wood delivery, and are working with that deadline in mind. We'll touch base after we coordinate with the Safety Office, but as of today the road is still closed to WDFW staff and affiliated partners approaching through our easement.

Thanks, and reach out with any questions, Laura

Laura Brown (she/her)
Restoration Coordination Manager, Restoration Division Washington Department of Fish and Wildlife

laura.brown@dfw.wa.gov
360-280-2014

-----Original Message-----

From: Tammy Stout <tstout@cascadeenv.com>
Sent: Thursday, February 19, 2026 9:29 AM
To: Lund, Robert (DFW) <Robert.Lund@dfw.wa.gov>; Smith, Luke L (DFW) <Luke.Smith@dfw.wa.gov>; Brown, Laura (DFW) <Laura.Brown@dfw.wa.gov>
Cc: Ploof, Jerrod S (DFW) <Jerrod.Ploof@dfw.wa.gov>; Holtz, Michelle (DFW) <Michelle.Holtz@dfw.wa.gov>; Justin Isle <jisle@cowlitz.org>; Pete Barber <pbarber@cowlitz.org>
Subject: RE: WDFW-CAMP Shannon Road Repairs and Cowlitz Tribe WF Grays Hatchery Intake Removal & Phase 1 Projects (Access/Coordination/Schedules)

External Email

Thanks Robert-

Laura, I know you have been updating Justin and Pete along the way for reviews of the plans and your coordination meeting with CAMP yesterday-- with any additional updates coming by the end of the month.

Thank you-