

CITY OF TACOMA

Tacoma Power / Generation

ADDENDUM NO. 2 DATE: February 26, 2021

REVISIONS TO:

Request for Bids Specification No. PG20-0314 Cowlitz Falls Barrier Dam Repair Project

NOTICE TO ALL BIDDERS:

This addendum is issued to clarify, revise, add to or delete from, the original specification documents for the above project. This addendum, as integrated with the original specification documents, shall form the specification documents. The noted revisions shall take precedence over previously issued specification documents and shall become part of this contract.

REVISIONS TO THE SUBMITTAL DEADLINE:

The submittal deadline has been changed to 11:00 a.m., Pacific Time, Tuesday, March 23, 2021.

REVISIONS TO THE GENERAL INFORMATION AND REQUIREMENTS:

Site visit to the left bank is scheduled for Friday, March 5, 2021.

REVISIONS TO THE SPECIAL PROVISIONS:

Replace Section 01010 Summary of Work, Page 3 with revised page: Liquidated damages limit added.

Replace Section 46 80 10 Bulkhead Gate, Page 4 with revised page: Addition of acceptable manufacturer.

QUESTION AND ANSWER RESPONSES:

- 1. Question: Can work take place below OHW and outside the inwater work areas?
 - a. Answer: Yes, temporary work will be needed to access and construct the cofferdam. Upstream of the Dam the AWS may not be blocked. Downstream of the dam the Right Fish Entrance must remain clear.
- 2. Question: Please provide soils reports or boring logs in the vicinity of the barrier dam if possible.
 - a. Answer: Tacoma Power can confirm that the top 10 feet are gravels. We are currently locating the soils/geology reports in the offsite archive. If information is found, we will provide it in another addendum.
- 3. Question: Can there be a site visit to view the left abutment?
 - a. Answer: Yes, it is being scheduled, see procurement requirements.

- 4. Question: Please provide the as-built drawings of the Barrier Dam.
 - a. Answer: As-builts are provided as attachment 2.
- 5. Question: Please provide all the permits stated in Section 01040- 1.3 Permits
 - a. Answer: Addendum 1 included final or draft copies of these permits as appropriate.
- 6. Question: Section 01040 states that the in-water work windows be phased over three years. Can these in-water window years be altered/ re-sequenced by the contractor to best fill their river diversion plan?
 - a. Answer: Yes, however consider that stage 3 has a shorter duration due to being adjacent to the right (and only functional) fish entrance. Access to the right fish entrance must not be impeded.
- 7. Question: Can the Gravel Augmentation placement be performed outside the In-water window?
 - a. Answer: Yes, Gravel Augmentation can be performed outside the In-water work window.
- 8. Question: Section 01400 discusses quality control and states in 1.2 A that "Construction inspection and testing for the City will be performed by a City employee or others as the City may designate and as the construction situation may dictate". Section 01 40 00 seems to indicate that the contractor will be responsible for quality control. Further in 3.2 G the specification states that "The required tests and frequencies are shown in Table 2". I cannot find a Table 2. Is it the intent for the City to be responsible for onsite testing and inspection?
 - a. Answer: The Contractor is responsible for performing Quality Control per section 01 40 00. The Engineer is performing Quality Assurance and selected onsite material testing for QA purposes. City of Tacoma will be performing Quality Verification. Section 3.2 G should read: "The required test and frequencies are shown in Table 1."
- 9. Question: Section 01040, Paragraph 1.3 Permits lists all the permits obtained by the City. Are these permits available to review for bidding purposes?
 - a. Answer: Addendum 1 included final or draft copies of these permits as appropriate.
- 10. Question: Is the pre-bid meeting for the above referenced project mandatory?
 - a. Answer: Pre-bid meeting is not mandatory. The site visits are not mandatory.
- 11. Question: The Specifications require the Contractor to provide a Water Control plan for both the Engineer and FERC approval. These details will require considerable engineering to prepare a plan and proper estimate for this work during the bidding phase. With the current 3 week bid period provided this will be very difficult to accomplish. It is requested that you extend the bid schedule by 4 weeks in order for bidding contractors to properly evaluate, develop and estimate these requirements.
 - a. Answer: Bid Period was extended 3 weeks in Addendum 1 to March 23rd.

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- 12. Question: Please provide the date for the last day of questions.
 - a. Answer: In order to prepare the final addendum, it is requested that all questions be submitted by March 10th.
- 13. Question: Please provide the date for the last issuance of the final addendum.
 - a. Answer: The last addendum must be issued 7 days prior to the bid date. At this time it is planned for March 16th.
- 14. Question: Is there a limit on liquidated damages?
 - a. Answer: See specification change section.
- 15. Question: Are aeration pipes plugged?
 - a. Answer: Assume that the existing aeration pipes are plugged with sand/organics.

REVISIONS TO THE PLANS:

Addition of barrier dam as-built drawings:

• MA2775	Mossyrock Salmon Hatchery Barrier Dam	Standard Details Sheet 1
• MA2776	Mossyrock Salmon Hatchery Barrier Dam	Standard Details Sheet 2
• MA2778	Mossyrock Salmon Hatchery Barrier Dam	Excavation Sheet 1
• MA2779	Mossyrock Salmon Hatchery Barrier Dam	Excavation Sheet 2
• MA2782	Mossyrock Salmon Hatchery Barrier Dam	Fish Barrier, Abutments, and Entrance Structures
• MA2783	Mossyrock Salmon Hatchery Barrier Dam	Fish Barrier Concrete and Reinforcements
• MA2784	Mossyrock Salmon Hatchery Barrier Dam	Left Abutment Concrete and Reinforcement
• MA2785	Mossyrock Salmon Hatchery Barrier Dam	Right Abutment and Entrance Struct. Concrete and Reinforcement Sheet 1
• MA2786	Mossyrock Salmon Hatchery Barrier Dam	Right Abutment and Entrance Struct. Concrete and Reinforcement Sheet 2
• MA2788	Mossyrock Salmon Hatchery Barrier Dam	General Plan Fish Ladders and Transportation Channel
• MA2789	Mossyrock Salmon Hatchery Barrier Dam	Fish Ladders Concrete and Reinforcement Sheet 1
• MA2790	Mossyrock Salmon Hatchery Barrier Dam	Fish Ladders Concrete and Reinforcement Sheet 2
• MA2792	Mossyrock Salmon Hatchery Barrier Dam	Miscellaneous Metals Sheet 1
• MA2793	Mossyrock Salmon Hatchery Barrier Dam	Miscellaneous Metals Sheet 2

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•	MW3797	Mossyrock Salmon Hatchery Barrier Dam	Conduit, Grounding & Lighting Layout Sheet 1
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REFERENCE DOCUMENTS:

The following reference documents have been provided as part of this addendum:

• Attachment G Barrier Dam Forebay Photos (2,500 CFS and 6,300 CFS)

NOTE: Acknowledge receipt of this addendum by initialing the corresponding space as indicated on the signature page. Vendors who have already submitted their bid/proposal may contact the Purchasing Division at 253-502-8468 and request return of their bid/proposal for acknowledgment and re-submittal.

Or, a letter acknowledging receipt of this addendum may be submitted in an envelope marked Request for Bids Specification No. PG20-0314F Addendum No. 2. The City reserves the right to reject any and all bids, including, in certain circumstances, for failure to appropriately acknowledge this addendum.

Patsy Best, Procurement and Payables Manager Finance/Purchasing Division

Cc: Tim Nordstrom, Power Engineer IV, Tacoma Power / Generation Toby Brewer, Assistant Generation Manager, Tacoma Power / Generation

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For this intermediate milestone, the amount of liquidated damages set forth of the General Provision 3.14 is hereby modified to \$10,000 per day, <u>limited to a maximum</u> of \$250,000.

1.5 SPECIFICATION FORMAT

This specification is written and formatted for use with Public Works specifications and is numbered to be consistent with other specifications, including Construction Specifications Institute (CSI) format, as modified by the City.

It is not intended to indicate what work is to be accomplished by various subcontractors on the project. In all cases, the City's contract is with one (1) general contractor and it is the general contractor's responsibility to insure all work required to provide a complete and operational facility is included in their bid.

When possible, the City has tried to reference work which should be included with various trades, but it is the contractor's responsibility to ensure all work is properly coordinated. The numbering system in the Special Provisions Section reflects standard provisions written by the City and assigned constant numbers. Thus, gaps will appear when specific sections are not used.

1.6 CONTRACT WORK TIMES

Work Hour Restrictions: The contractor should limit the upland work on the left bank (looking downstream) in the months of May and June such that work on the left bank does not start until two hours after sunrise and work has stopped two hours before sunset (i.e., approximately 8am-6:20pm in May and 7:30am-7pm in June). Beginning in July and extending to December there are no restrictions on work hours.

If the contractor elects to work on a Saturday, Sunday, holiday or longer than the designated contract work times, such work shall be considered overtime work. On all such overtime work, a City engineer or their inspector must be present. The contractor shall reimburse the City for the full amount of the costs for City employees who must work any such overtime hours. It shall be the engineer's decision as to when an inspector is required. For the purpose of estimation of reimbursement of City employee's overtime, the bidder shall budget \$80.00 per hour.

However, if the City orders work to be performed on overtime, all City employees' overtime costs will be at no expense to the contractor. The City will not require reimbursement for overtime hours worked by the City for inspection as detailed in the General Provisions if the conditions of this paragraph are met to the satisfaction of the engineer.

1.7 QUALIFICATION OF CONTRACTORS

A. QUALIFIED CONTRACTORS

Only contractors with management, employees, and staff experienced in the type of work required by this specification, and with a record of successful completion of projects of similar scope, complexity, and overall cost will be considered. The bidder must complete the Contractor's Record of Prior Contracts form attached to this specification at the time of submitting their bid.

Additional materials are required to provide proof of qualifications to perform the work. See Section 01010, 1.9 Evaluation of Bids The City will be the sole judge of the bidder's ability to meet the requirements of this paragraph. Bidders past work will be judged in complexity of job, time of completion, organization, and other factors that may indicate the abilities of the contractor.

Submit to the engineer within ten (10) calendar days following execution of the contact documents, a list of all subcontractors, including each subcontractor's address, telephone number, and contact person to be used on this project.

Section 01010

2.2 ACCEPTABLE MANUFACTURERS

- A. The following manufacturers are acceptable for the design and fabrication of the bulkhead gate and hoist. All other manufacturers not listed subject to approval by the City based qualifications required for substitutions.
- 1. EDCO Inc. Mt Vernon, WA.
- Jesse Engineering Tacoma, WA.
- K&N Electric Spokane Valley, WA.
- 4. Rodney Hunt-Fontaine Orange, MA.
- 5. Selway Corp. Stevensville, MT.
- 6. Transco Industries Inc. Portland, OR.
- 7. Vigor (Oregon Iron works) Clackamas OR.
- 8. Thompson Metal Fab. Vancouver, WA.

9. Greenberry - Vancouver, WA.

B. Substitution for gate manufacturers shall have no less than ten years' experience designing and fabricating similar projects. The manufacturer shall be subject to approval by the City based on consideration of submitted qualifications showing evidence of completing similar gates including owner with contact information, location, capacity, description of gate, and date of installation.

2.3 BULKHEAD GATE AND HOIST SUPPORT FRAME ASSEMBLY

A. CONFIGURATION

The Bulkhead Gate shall conform to the requirements indicated below:

Component/Condition Requirement

No. Gates	1	
Nominal Size (feet)	14 high / 5.3 top width / 4.7 bottom width	
Max. Head @ Invert (feet)	15	
Actuator	2-ton chain hoist	

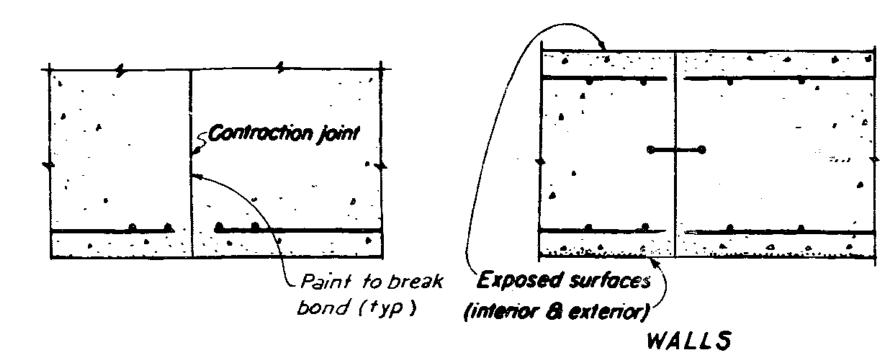
B. OPERATION

Gate shall be raised and lowered with no differential across the bulkhead gate.

C. MATERIALS

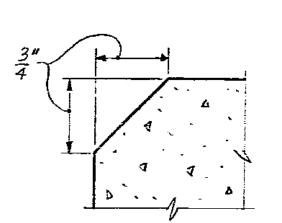
Material in the bulkhead gate and appurtenances shall conform to the requirements of the applicable specifications listed below for the alloy, grade, type, or class of material and the condition and finish appropriate to the structural and operational requirements.

Material	ASTM Specification
Steel Plates, and Bars	A572, Grade 50
Wide-Flange Shapes	A992
Hollow Structural Shapes	A500, Grade B
Other Structural Shapes (M, S, C, MC, L)	A36
Stainless Steel Bottom Sill Plate, guides, and other Components Embedded in Concrete	A269, A276, or A666 Type 304 or 304L (for better weldability)
Stainless Steel Bolts and Nuts	F593 or F594, Type 304

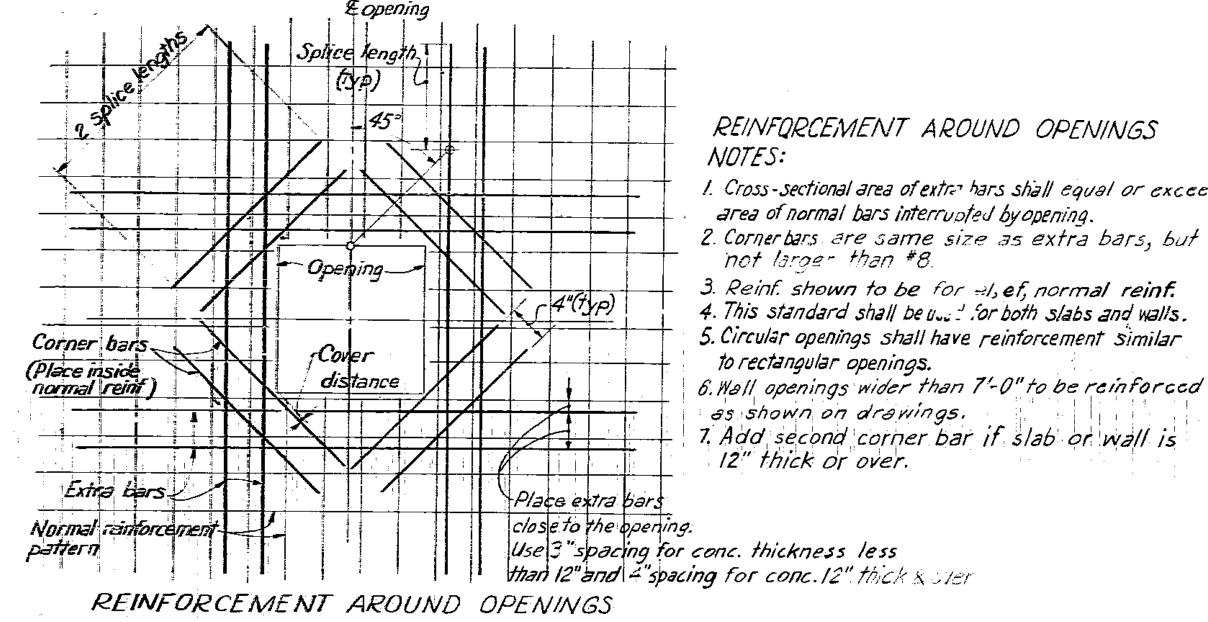


MASS CONCRETE

CONTRACTION JOINTS (Reinforcement stops at contraction joints)



Reentrant corner same EXPOSED EXTERNAL CORNERS (Except as otherwise noted)



1. Cross-sectional area of extra hars shall equal or exceed area of normal bars interrupted by opening.

3. Reinf. shown to be for alsef, normal reinf. 4. This standard shall be used for both slabs and walls.

to rectangular openings.
6. Wall openings wider than 7'-0" to be reinforced

ew = each way

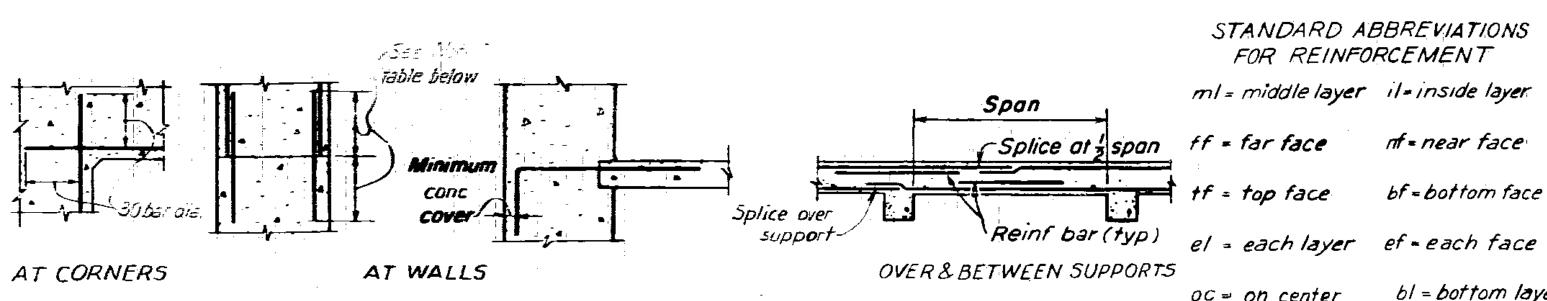
FOR REINFORCEMENT

nf = near face

ol = outside layer

as shown on drawings.

7. Add second corner bar if slab or wall is



TYPICAL REINFORCEMENT EMBEDMENT, PROJECTION & SPLICE DETAILS (Unless otherwise noted on drawings)

TYPICAL BAR BILLING General Billing : \$6,600, where bar length and number required is not given the Contractor shall determine same from bar spacing, location and

dimensions of structure. is used where a definite number of bars or bar length or spacing is required.

NOTES I. Feet and inch marks are omitted from length and spacing dimensions

2. Bar spacing is given in inches.

3. All bars are billed by size, spacing and in some instances length, in one view only, as shown by "Typical bar billing". Bars are only identified in other views, eg: #6; #10,4-6

	ABBI	REVIATIONS & SYMBOLS	
alt.	= Alternate	HP = High point	reinf - Reinforcement
A/	= Aluminum	ID = Inside diameter	regid - Required
CJ	- Construction joint	jt - Joint	std - Standard
CC	- Center to center	L = Length along curve	Sta = Station
⊈	- Center line	LP - Low point	sym - Symmetrical
c/	= Clear	max - Maximum	struct = Structure
col	- Column	min – Minimum	T = Tangent length
conc	- Concrete	mfr - Manufacturer	typ = Typical
DA	= Dovetail anchors	nts - Not to scale	VG - V-groove
Ø	= Diameter	No - Number	WL - Working line
dia	- Diameter	oc = On center	WP - Working point
dn	- Down	0D = Outside diameter	WS - Water stop
dwg	- Drawing	PC - Point of curvature	Δ = Intersection angle
ΕĂ	- Expansion anchors	- PI - Point of intersection	
ΕI	- Elevation	PT - Point of tangency	
90	- Gage	proj - Projection	

R - Radius As No Asbuilt Revisions Minor revisions SATE BY APP'D DATE REVISION CITY OF TACOMA DEPARTMENT OF PUBLIC UTILITIES MAJOR PROJECTS DIVISION MOSSYROCK PROJECT SALMON HATCHERY - BARRIER DAM STANDARD DETAILS SHEET

GENERAL NOTES FOR CONCRETE

finish is required.

construction joints.

Waterstops to be continuous.

PROTECTIVE COVER

be smooth.

Provide tooled edges for all construction and contraction

joints on surfaces where wood float or steel trowel

Concrete surfaces exposed to the flow of water must

Unless otherwise noted, roughen surfaces of pours at

Main reinforcement to have concrete cover as follows:

6. Cover for secondary reinforcement (i.e. stirrups,

col ties), may be reduced by the diameter

(except os otherwise noted on drawings). min
1 Bottom of foundation and footings ... 4".
2 Backfilled surfaces, surfaces of

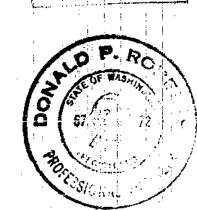
3 Exterior walls, beams and slabs . 2

4 Interior walls, beams and columns

5. Interior slabs

of such bors.

CONSTRUCTION DWG.



HARZA ENGINEERING COMPANY

APRoberts DRAWING NUMBER MA 2775 RI/AS SCALE NONE

REINFORCEMENT DETAILS

NO77: Laps shall be detailed in accordance with table below, unless otherwise notea. Laps for #8 tars or smaller, spaced less than Rediameter must be increased by 20%.

Bar	Lap length in feet and inches	
5/30	"Top Bars"	"Other Bars"
3	1-0,"	/-0"
4	1-0"	1-0
5	/'-3"	· 3"
6	18	1-5"
7	2'4"	1-9"
8	3:0	2'-1"
9	4-7"	3'-3"
10	5'-9"	4-1-
	7'-/"	5-1"

REINFORCING BAR LAPS

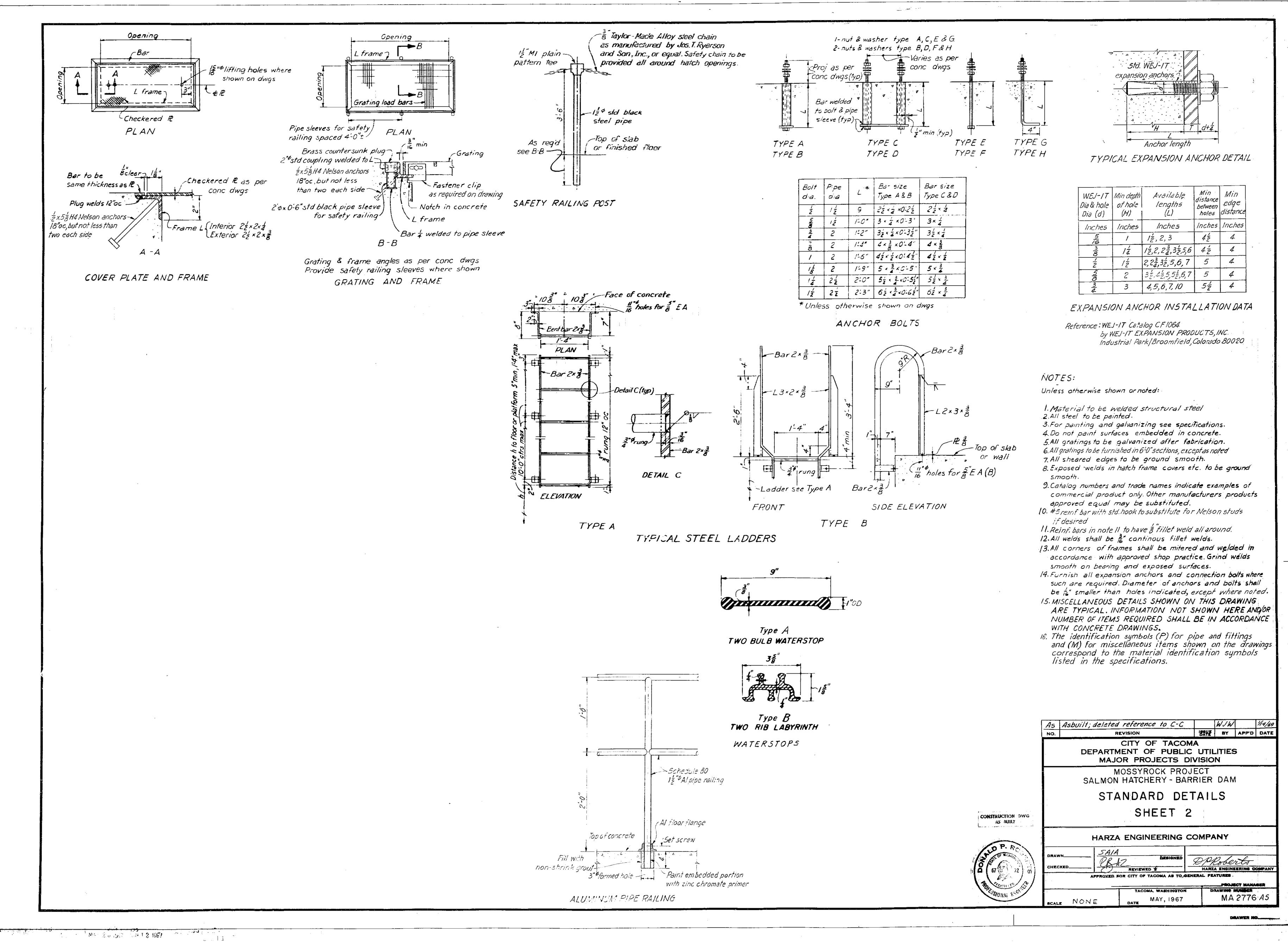
Key as shown on drawings Slab or beam. Slab or beam -

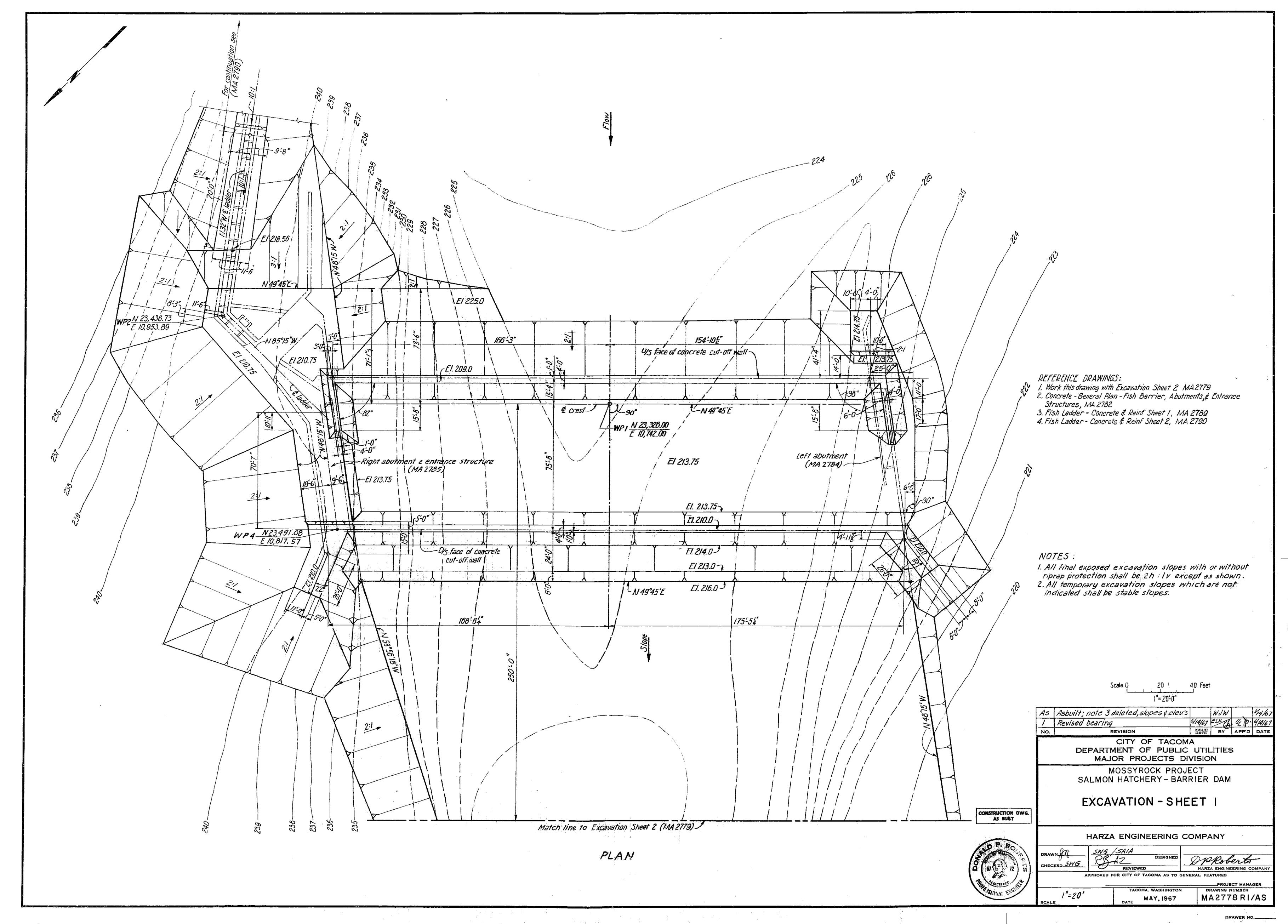
Foundation slab

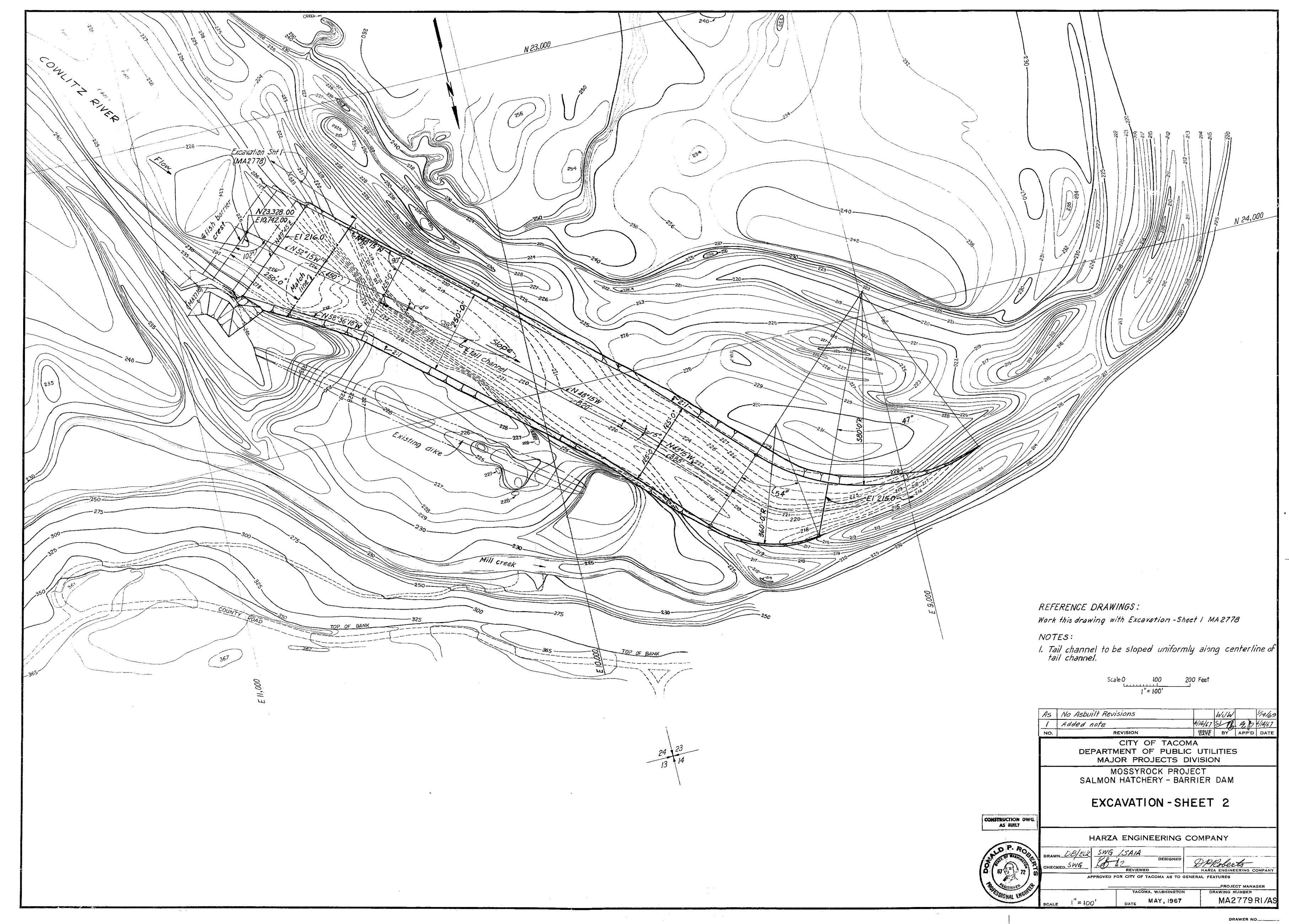
shall be placed to miss key.

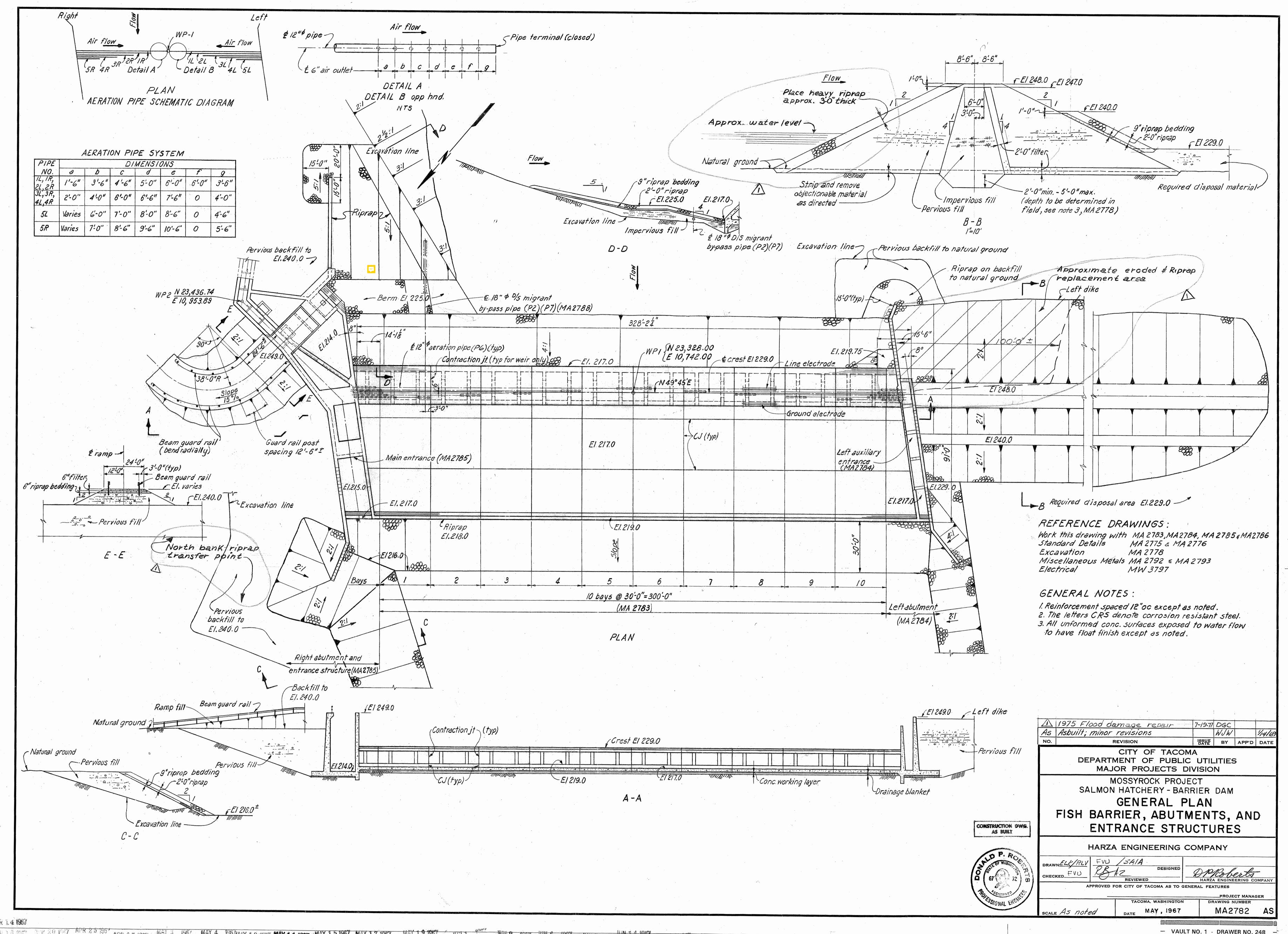
TYPICAL KEY DETAILS

Key



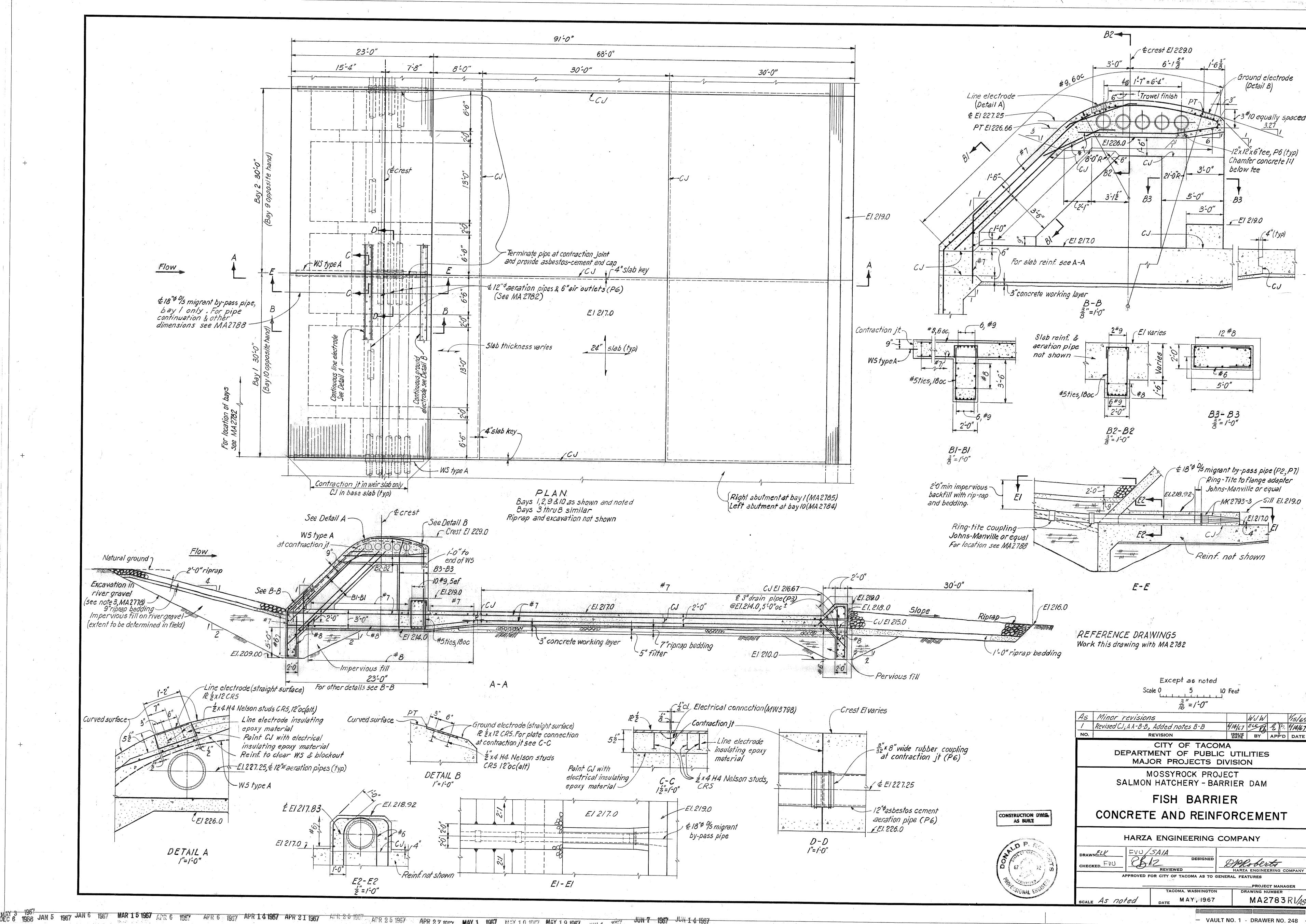




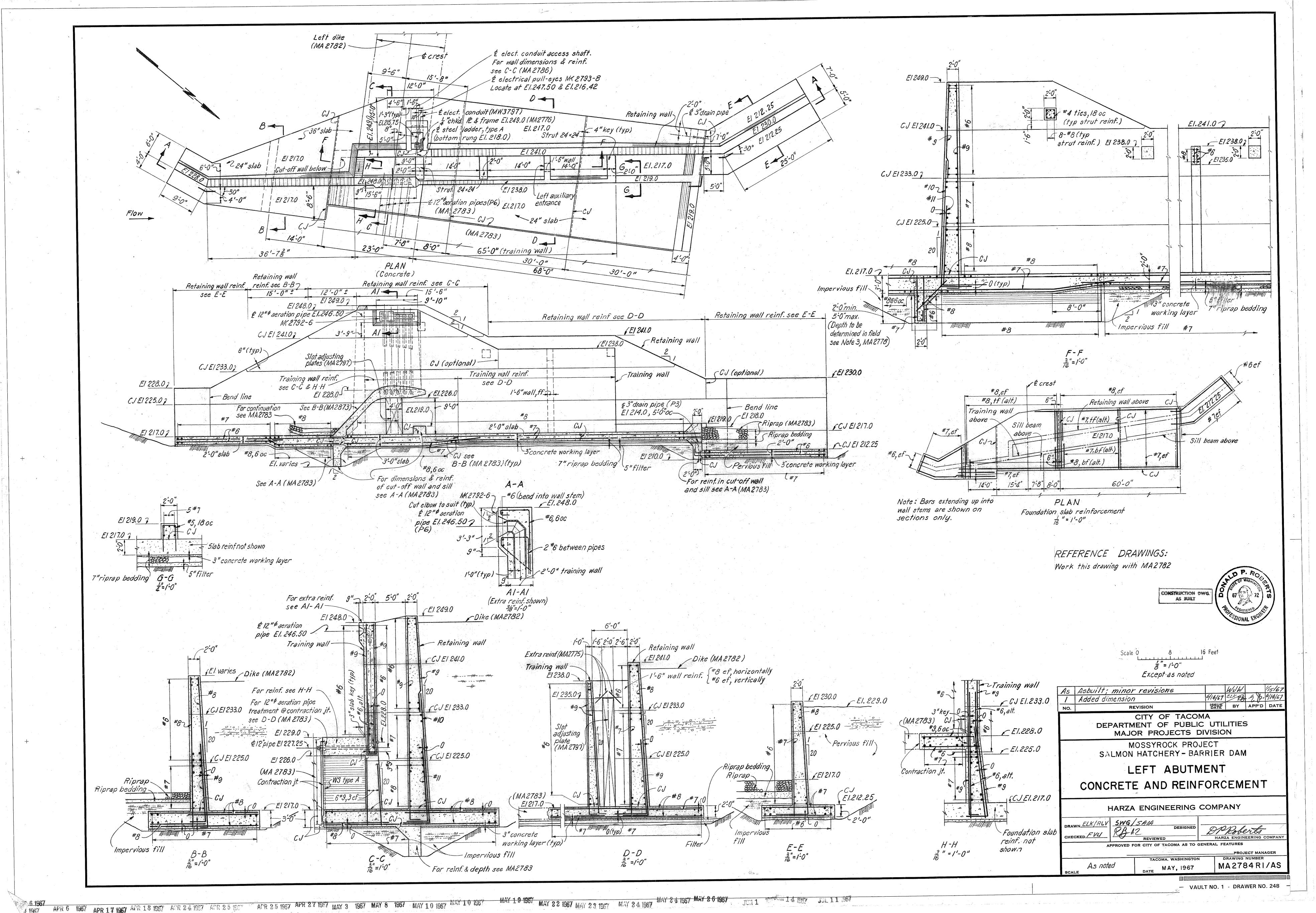


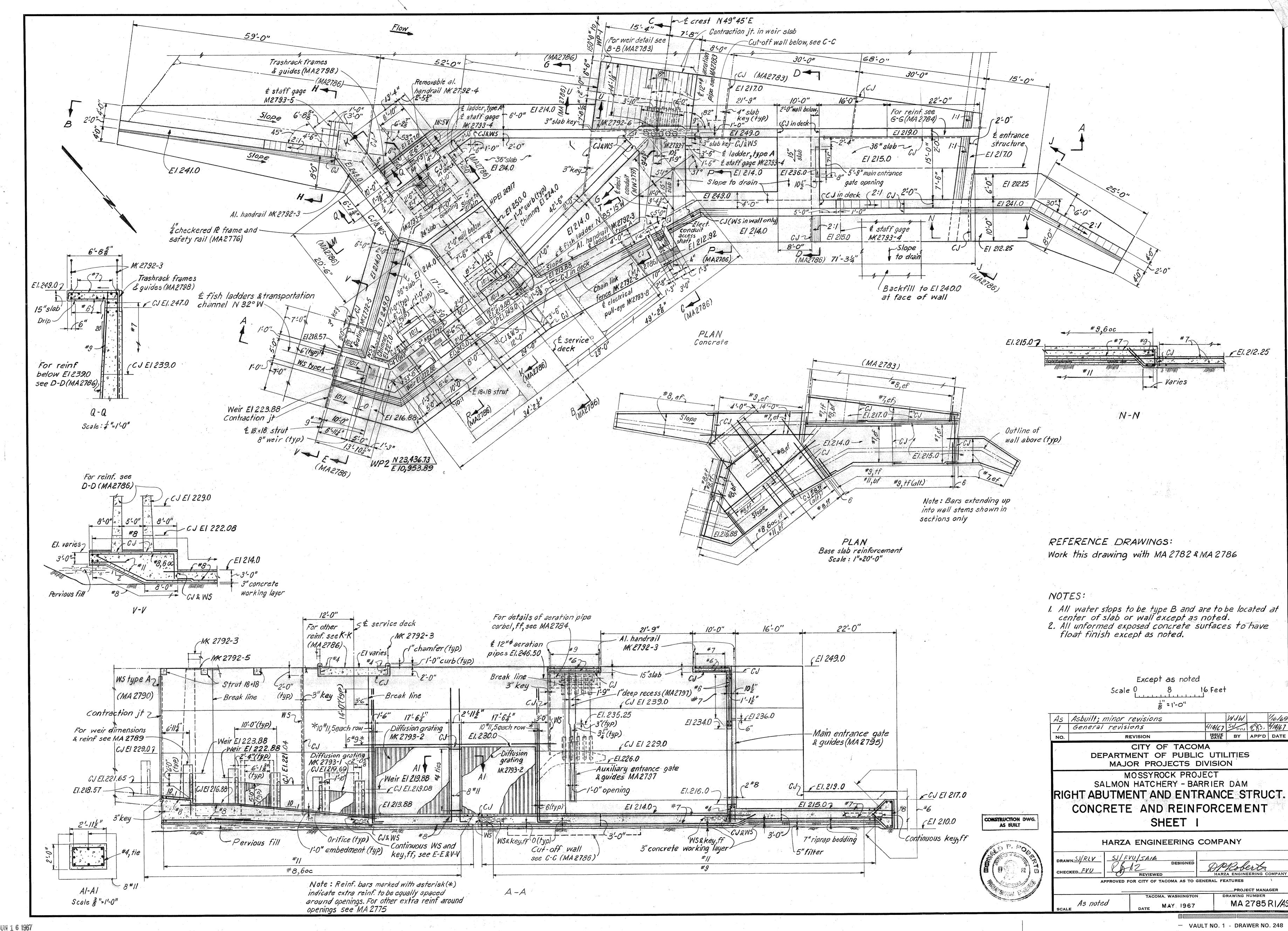
APR 14 1967

- VAULT NO. 1 - DRAWER NO. 248

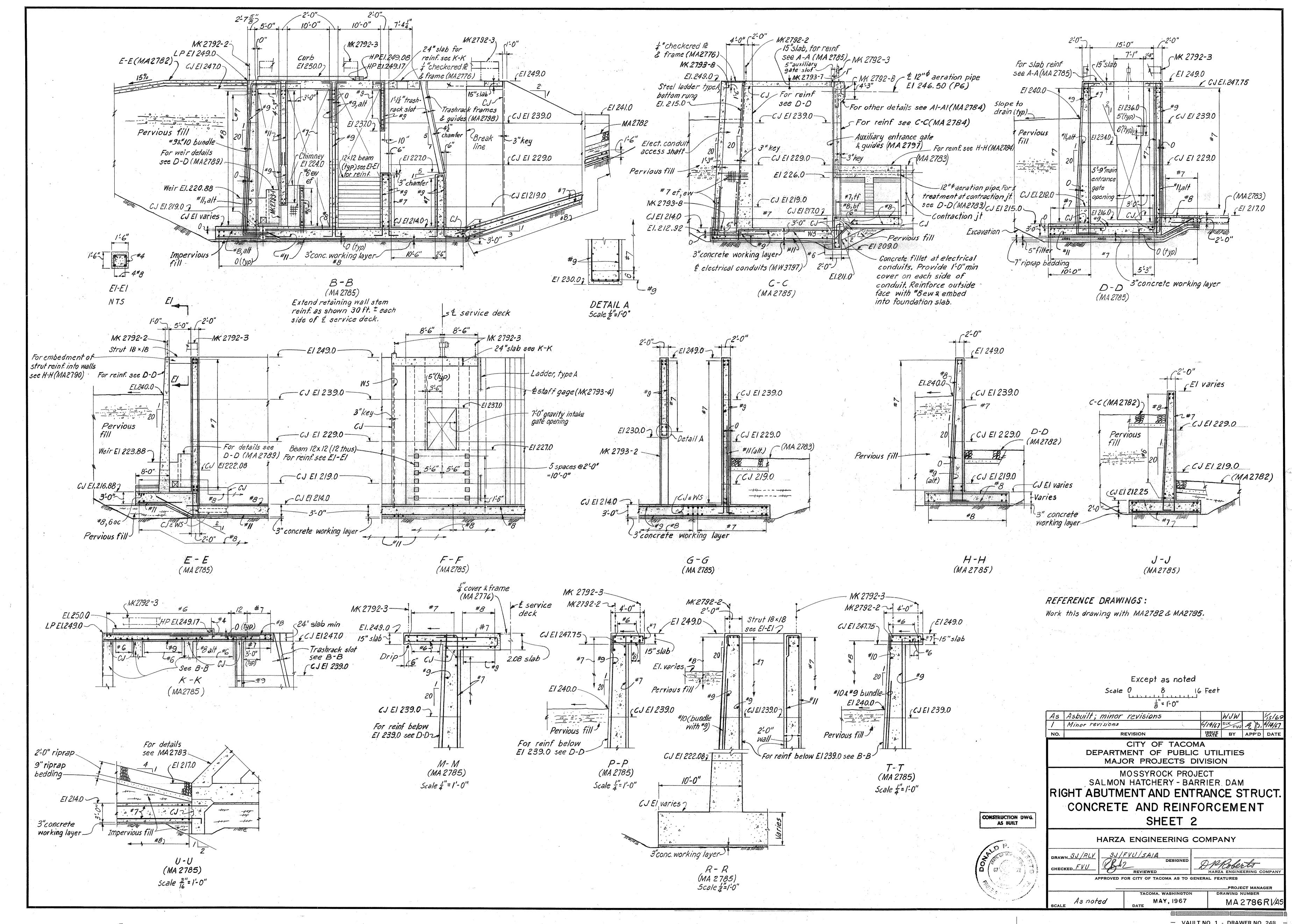


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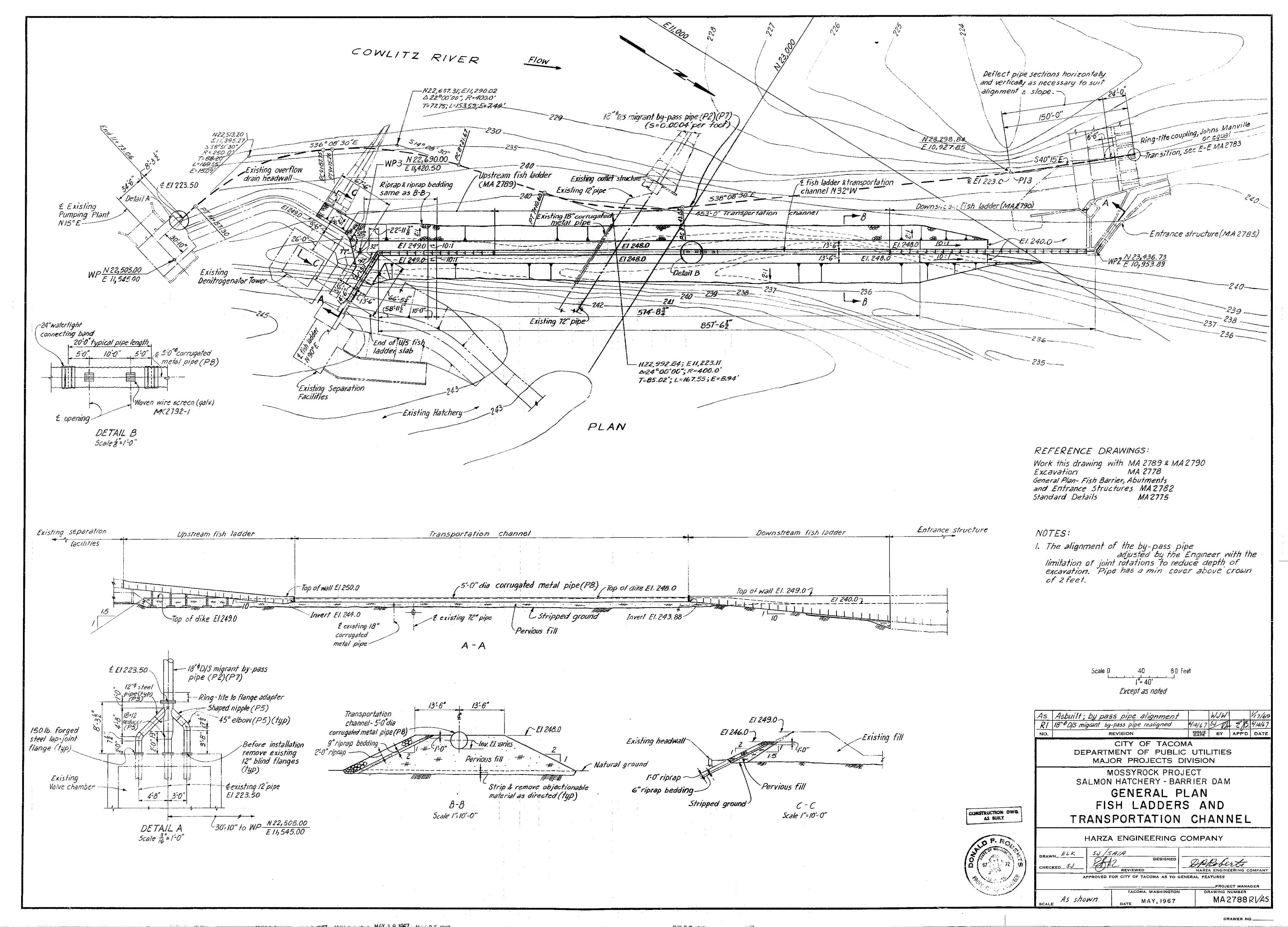


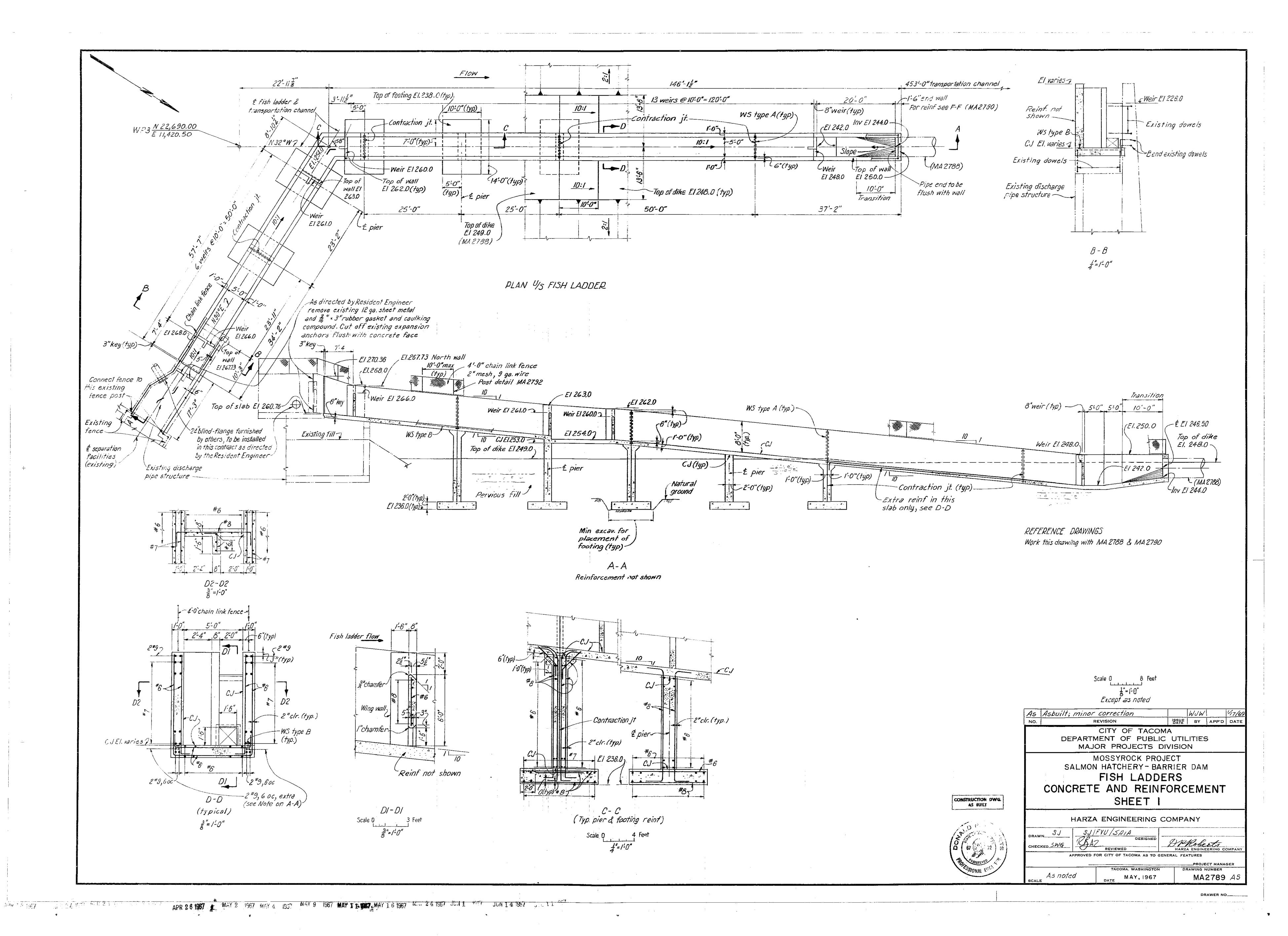
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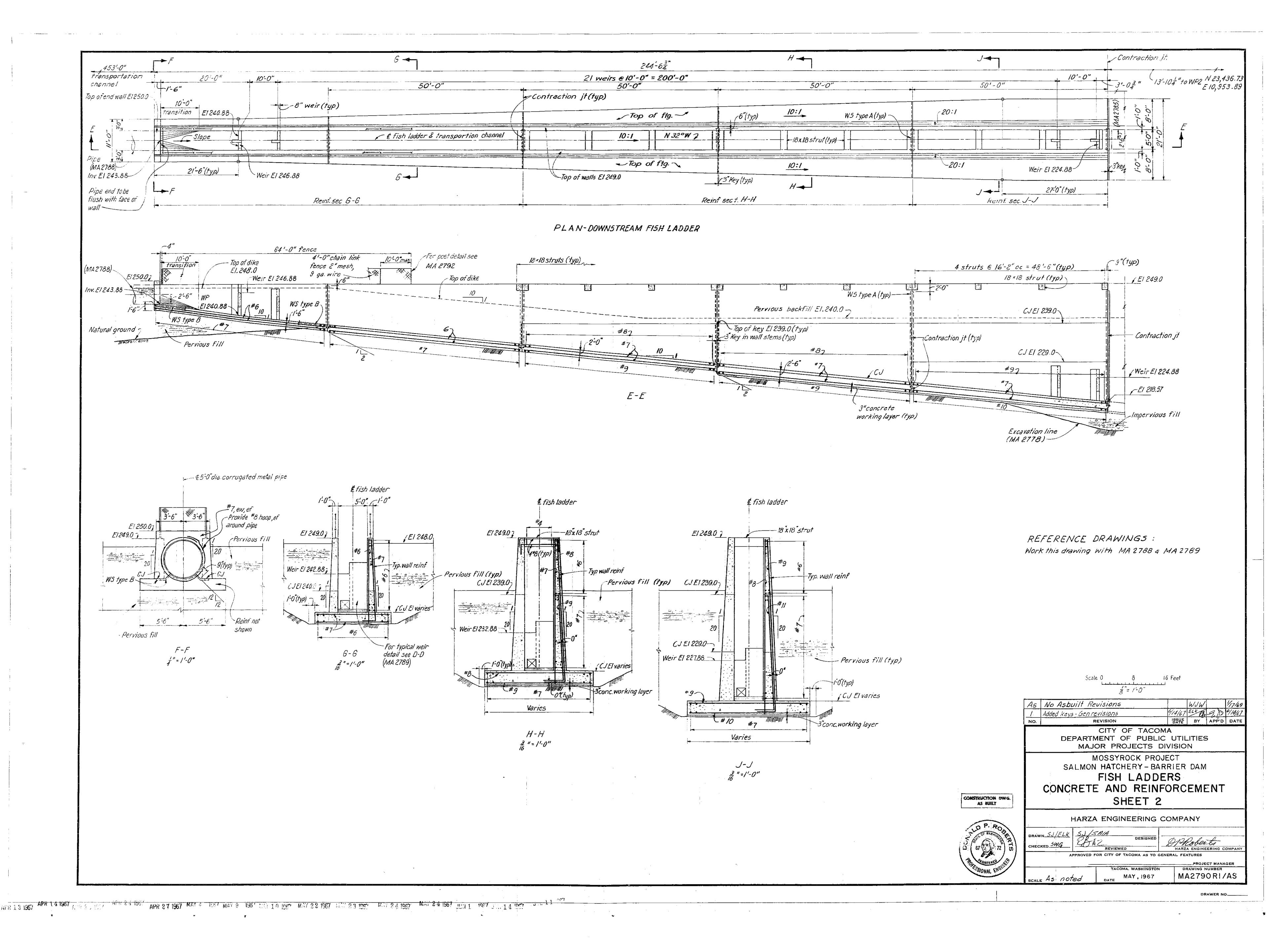


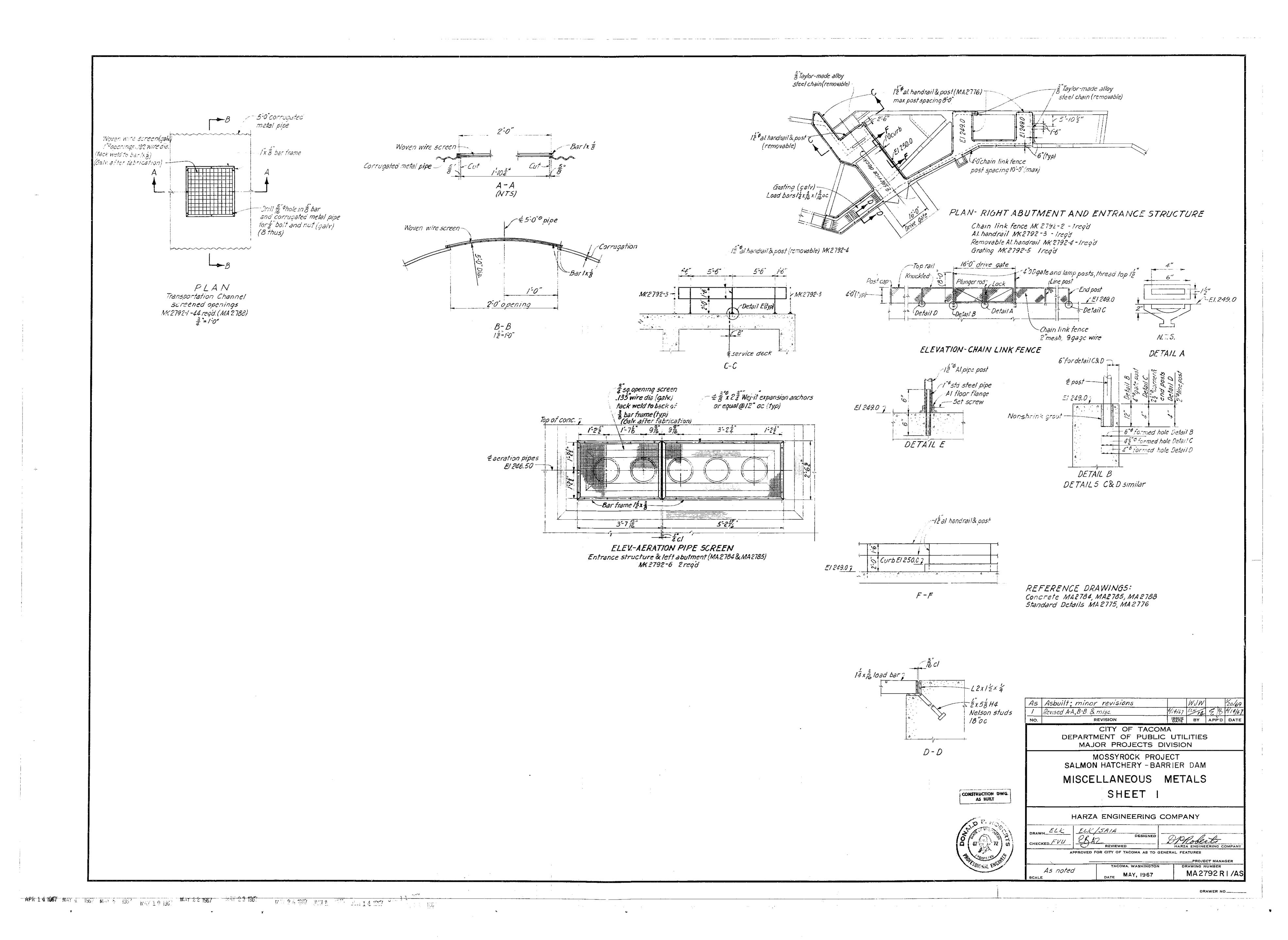
MAY 2 1967 MAY 4 1967 MAY 10 1967 MAY 16 1967 MAY 22 1967 MAY 22 1967 MAY 23 1967 MAY 24 1967 MAY 25 1967 MAY 26 1967 MAY 26 1967 JUN 1 3 1967 JUN 1 4 1967

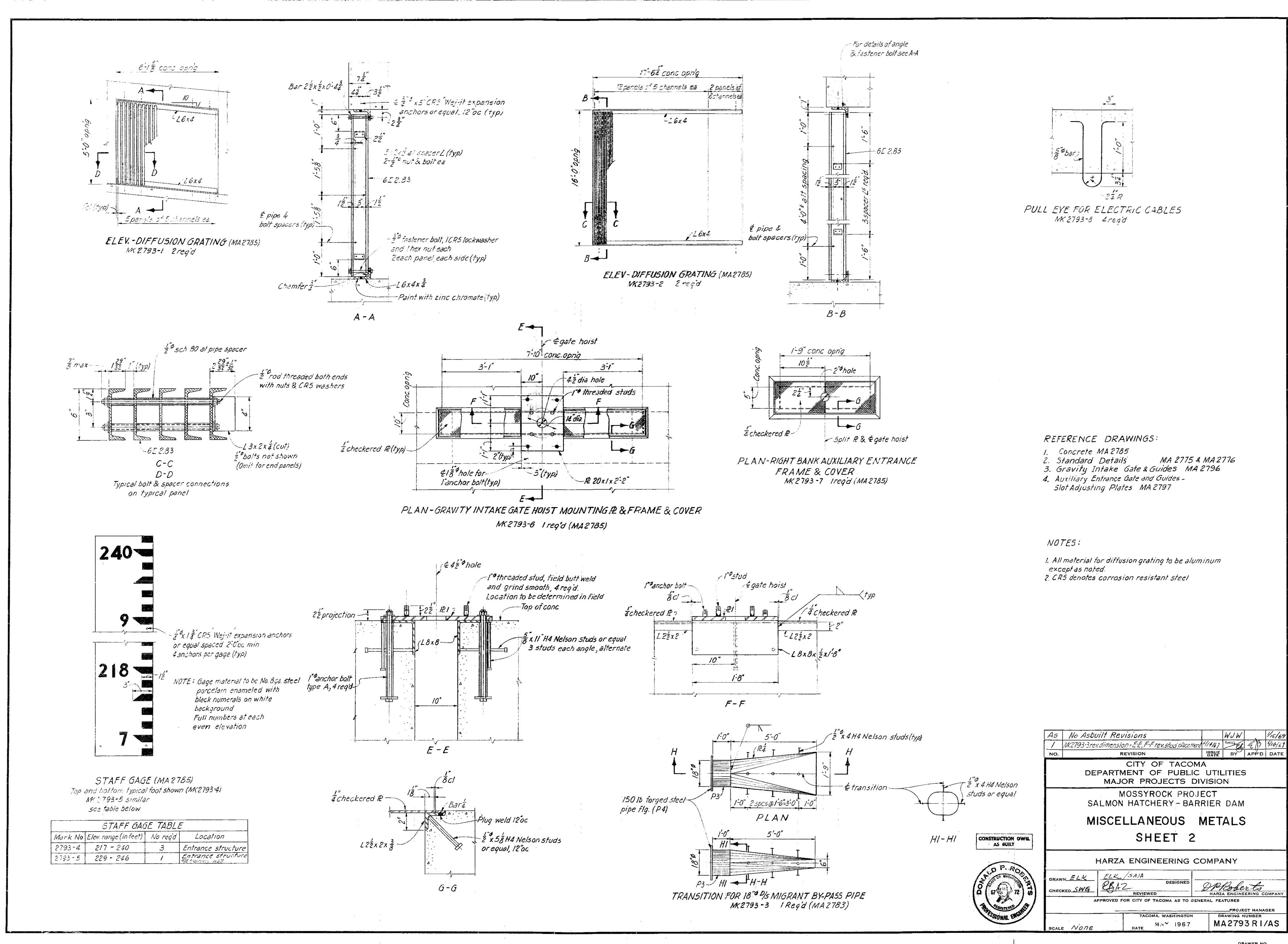
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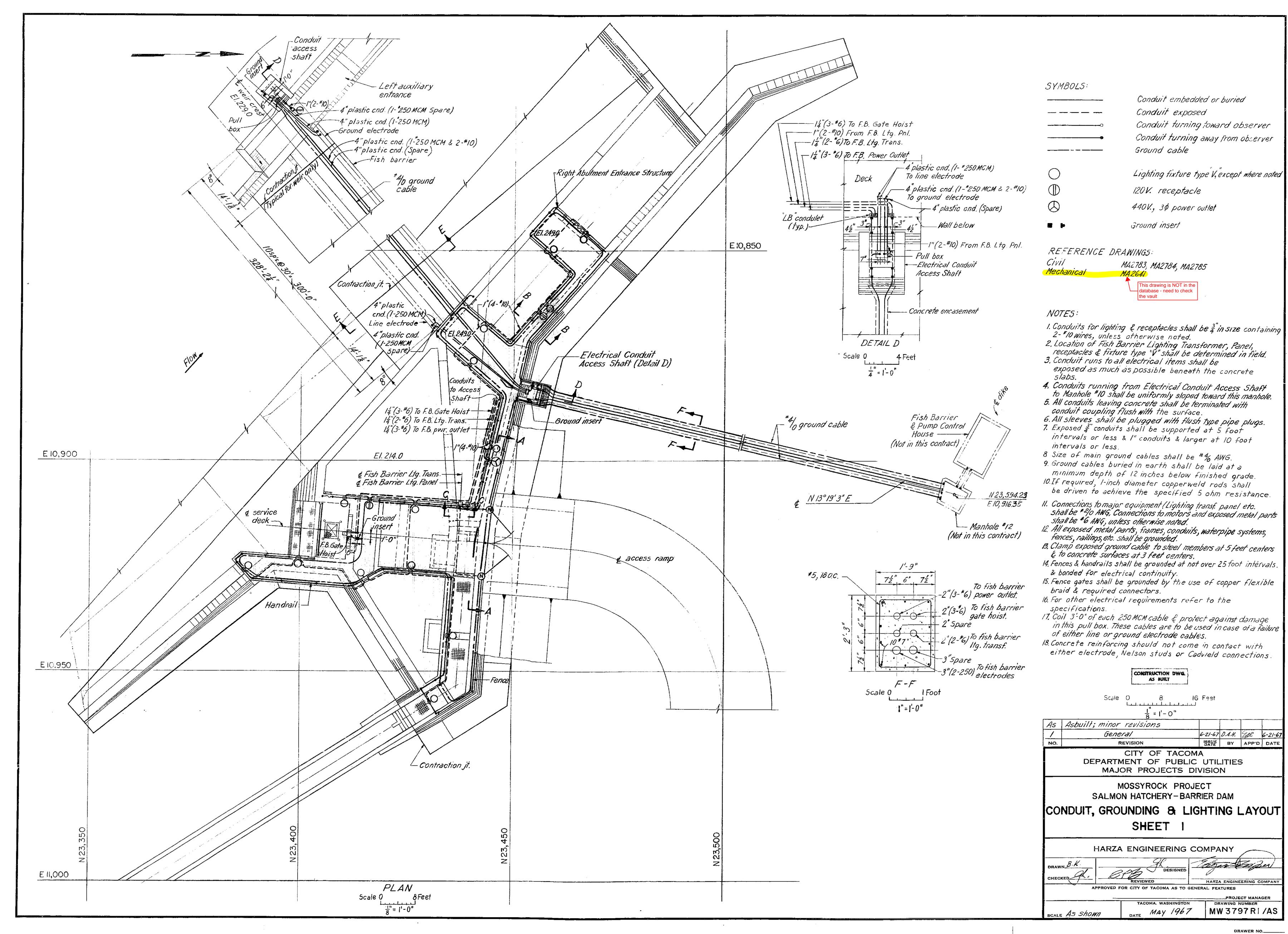


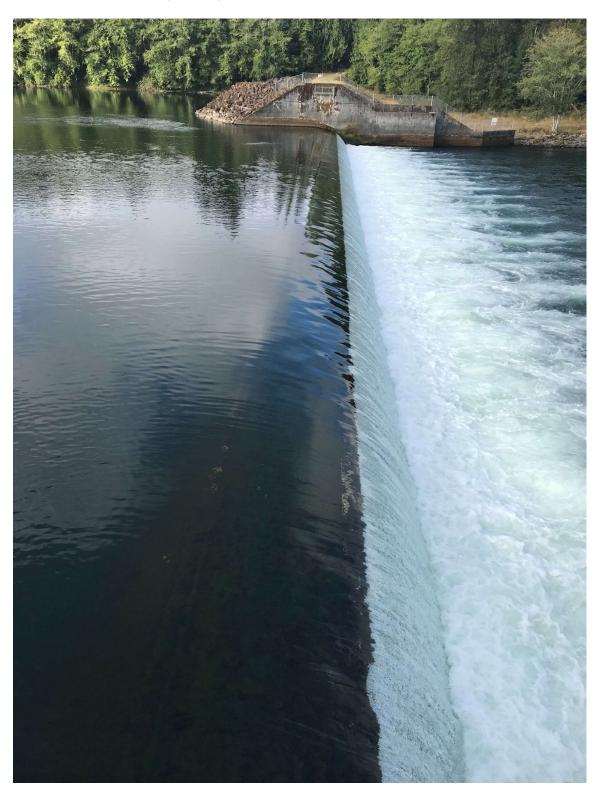


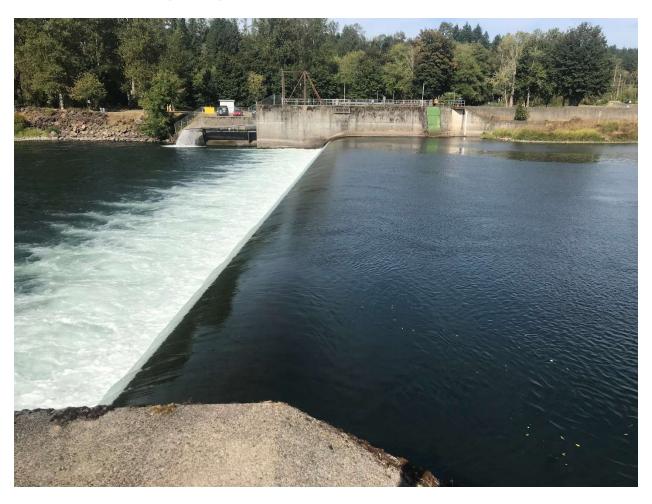
















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