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Attorneys for Strider Construction Co., Inc.

**IN THE DISTRICT COURT OF THE FOURTH JUDICIAL DISTRICT OF
THE STATE OF IDAHO, IN AND FOR THE COUNTY OF ADA**

STRIDER CONSTRUCTION CO. INC.,

Plaintiff,

vs.

IDAHO WATER RESOURCE BOARD,

Defendant.

Case No. CV01-22-10932

DECLARATION OF KYLE GEBHARDT
IN SUPPORT OF STRIDER
CONSTRUCTION CO., INC.'S MOTION
TO STRIKE PORTIONS OF
DEFENDANT'S MEMORANDUM AND
REPLY

I, Kyle Gebhardt, testify as follows:

1. I am over eighteen years of age and competent to testify herein. I have personal knowledge of the facts and statements stated herein.
2. I am a Professional Engineer and serve as an Operations Manager for Strider Construction Company Incorporated ("Strider").

3. In 2020, the Idaho Water Resource Board (“IWRB”) issued for public bid the Priest Lake Outlet Dam Improvement Project, (the “Project”). IWRB issued plans, designs, and specifications, directing, and dictating to Strider what work to perform, including the apron work, bedding and drainage layers, installing new piping, isolation from and diversion of the river, providing for phasing, and providing limitations and parameters on how dewatering can be performed. A copy of IWRB’s provided plans and specifications detailing the dewatering is attached as **Exhibit A**.

4. Strider did not design the Project—IWRB and its design consultants and engineers did. In turn, Strider implemented the work as dictated by IWRB’s design and contract documents, including the dewatering. It is not possible to perform the work without dewatering.

5. Partially through the Project and as a part of the dewatering provided for by IWRB’s design, Strider identified that water was coming underneath the Dam—a change of conditions. A copy of the pertinent email is attached as **Exhibit B**. Contrary to IWRB’s representations, Strider was the party that informed IWRB of the voids. On December 3, 2021, Strider wrote to IWRB and stated that based on observations in the field the design water was flowing underneath the Dam.

6. IWRB Stop Work Order was issued on December 4, 2021 as a result of Strider’s concern and notification. A copy of IWRB’s issued Stop Work Order is attached as **Exhibit C**.

7. On December 6, 2021, Strider responded to IWRB’s Stop Work Order, detailing that this was a design issue that required direction from IWRB and a design revision. A copy of Strider’s reply is attached as **Exhibit D**. Strider cannot proceed and modify IWRB’s design or act outside of the Contract parameters without IWRB directive and contract modifications. Despite Strider’s notifying IWRB of this issue, IWRB took over a week to even schedule a site visit.

8. Again, on December 14, 2021, Strider notified the Board of the continued changed condition, the identification of voids under the dam, and that failure to address this issue would only result in exacerbating the issues. A copy of Strider’s notification is attached as **Exhibit E**.

9. While Strider immediately notified IWRB of the issue and spent months developing and providing IWRB with detailed and alternative solutions and answering additional questions from IWRB in 2021 and early 2022 (two years ago), urging IWRB to act with urgency, IWRB refused to allow Strider to take any action, leaving the stop work order in place and preventing any work from occurring in the 2022 season. A copy of Strider's June 6, 2022 letter detailing Strider's efforts and IWRB's failure to provide direction is attached as **Exhibit F**. Ultimately, IWRB sat inactive, delaying any further work on the dam until the fall of 2023. After the site investigation, Strider understands that IWRB will likely proceed with a plan to fill the voids with grout using a similar plan to the plan Strider proposed two years ago but was denied by IWRB.

I declare under penalty of perjury under the laws of the State of Idaho that the foregoing is true and correct.

DATED: This 8TH day of January, 2024 at Bellingham, WA.

By: _____

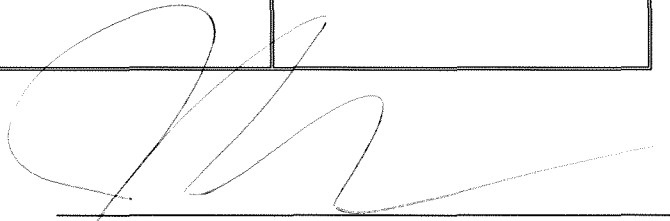


Kyle Gebhardt

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on the 9th day of January, 2024, a true and correct copy of the foregoing document was served by the method indicated below upon the following parties:

Thomas A. Banducci Jennifer Reinhardt-Tessmer KIRTON MCCONKIE 1100 W. Idaho St., Ste. 930 Boise, ID 83702-5662 tbanducci@kmclaw.com jtessmer@kmclaw.com	<input type="checkbox"/> U.S. Mail <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Facsimile <input type="checkbox"/> Overnight Mail <input type="checkbox"/> Electronic Mail <input checked="" type="checkbox"/> iCourt E-File
Garrick L. Baxter Meghan M. Carter Deputy Attorneys General Idaho Department of Water Resources PO Box 83720 Boise, ID 83720-0098 garrick.baxter@idwr.idaho.gov meghan.carter@idwr.idaho.gov	<input type="checkbox"/> U.S. Mail <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Facsimile <input type="checkbox"/> Overnight Mail <input type="checkbox"/> Electronic Mail <input checked="" type="checkbox"/> iCourt E-File



Joe Meuleman

EXHIBIT A

GENERAL NOTES

SCOPE OF WORK

1. WORK DETAILED ON THE DRAWINGS AND APPLICABLE ITEMS DESCRIBED IN THE GENERAL STRUCTURAL NOTES AND SPECIFICATIONS
2. DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THIS WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION AND COORDINATION OF ALL SPECIFICATIONS, PLANS, SECTIONS AND DETAILS PRIOR TO PROCEEDING WITH ANY WORK. IMMEDIATELY NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES FOUND.
3. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING, BRACING AND PROTECTION FOR ALL WORK IN PROGRESS UNTIL THE WORK IS COMPLETE.
4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
5. THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS IN ACCORDANCE WITH ALL CURRENT LOCAL, STATE, AND FEDERAL CODES COVERING SUCH OPERATIONS. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE THEIR WORK WITH THE IDAHO WATER RESOURCE BOARD (OWNER), BONNER COUNTY, AND OTHER CONTRACTORS, IF ANY.
6. THE CONTRACTOR SHALL HAVE AN ENGINEER LICENSED IN THE STATE OF IDAHO PREPARE AND STAMP A SET OF PLANS AND ALL CALCULATIONS FOR THE FOLLOWING WORK:
 - COFFERDAM DESIGN
 - STRUCTURAL LIFTING AND TEMPORARY SHORING OF STRUCTURES
 - JACKING FRAMES
 - DESIGN CHECK OF EXISTING STRUCTURE FOR CONTRACTOR'S OPERATIONS INVOLVING THE USE OF THE EXISTING STRUCTURE
 - OTHER WORK BY CONTRACTOR ON THESE PLANS NOT MENTIONED

PLANS AND CALCULATIONS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL ALLOW AT LEAST TWO WORKING DAYS PER DRAWING AND ONE DAY PER FOUR PAGES OF CALCULATIONS FOR REVIEW. A MINIMUM OF TEN WORKING DAYS MUST BE ALLOWED FOR EACH SET OF DRAWINGS OR CALCULATIONS SUBMITTED FOR REVIEW. NO WORK MAY BEGIN

UNTIL THE RESPECTIVE SUBMITTALS ARE APPROVED. ALL COSTS FOR PREPARING THESE PLANS AND CALCULATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE, INCLUDING RESUBMITTALS. THE CONTRACTOR'S ENGINEER SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING ALL PHASES OF THE REHABILITATION WORK.

7. MULTIPLE MOBILIZATIONS MAY BE REQUIRED TO COMPLETE THE WORK.

DRAWINGS AND SPECIFICATIONS

1. DO NOT SCALE DRAWINGS FOR DIMENSIONS NOT GIVEN.
2. ADVISE THE OWNER'S REPRESENTATIVE OF DIMENSIONAL DISCREPANCIES.
3. VERIFY ALL EXISTING FIELD CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION.
4. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK AT ANY TIME WITHOUT CONTRACT DOCUMENTS OR, WHERE REQUIRED, APPROVED SHOP DRAWINGS, PRODUCT DATA OR SAMPLES FOR SUCH PORTION OF THE WORK.

CONSTRUCTION SAFETY

1. THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY SAFETY REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING CONSTRUCTION AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS AND OTHER APPLICABLE CODES. JOBSITE VISITS BY THE OWNER'S REPRESENTATIVE SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.

BUILDING CODES AND SPECIFICATIONS

1. US ARMY CORPS OF ENGINEERS, DESIGN OF HYDRAULIC STEEL STRUCTURES, ENGINEERING TECHNICAL LETTER (ETL) 1110-2-584, JUNE 2014
2. US ARMY CORPS OF ENGINEERS, DESIGN OF SPILLWAY TAINTER GATES, ENGINEERING MANUAL (EM) 1110-2-2702, JANUARY 2000 (SUPERCEDED BY ETL 1110-2-584)
3. AMERICAN INSTITUTE OF STEEL CONSTRUCTION, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC 360-10, JUNE 2010
4. AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10 THIRD PRINTING, MARCH 2013
5. AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-14, SEPTEMBER 2014

REHABILITATION NOTES

1. THE CONTRACTOR SHALL EXAMINE AND VERIFY, IN THE FIELD, ALL CONDITIONS AND DIMENSIONS. DIMENSIONS OF THE EXISTING STRUCTURES SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL SUCH FIELD MEASUREMENTS AS ARE NECESSARY TO ENSURE PROPER FIT OF THE FINISHED WORK, AND THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. IF THE FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS, AS APPROVED BY THE OWNER'S REPRESENTATIVE. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS MADE SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR REFERENCE OF THE REVIEWER.
2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE CONDITION OF EXISTING STRUCTURES, THE EXACT EXTENT OF WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING STRUCTURE CAUSED BY THEIR OPERATIONS WHICH IS NOT INCLUDED AS PART OF THE INTENDED WORK. ALL DAMAGE TO THE EXISTING STRUCTURE, WHICH IS NOT PART OF THE INTENDED WORK, SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT COST TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
4. LAWN AREAS DISTURBED BY THE CONTRACTOR, AS PART OF WORK TO BE PERFORMED UNDER THIS CONTRACT, SHALL BE RESTORED AS SPECIFIED, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, INCLUDING DISTURBANCE TO STAGING AREAS. ALL DISTURBED GRASS AREAS SHALL BE GRADED IN A MANNER APPROVED BY THE OWNER'S REPRESENTATIVE, TOPSOILED, AND SEEDED.

REMOVAL, EXCAVATION, AND BACKFILL NOTES

1. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS, BRACING, AND OTHER DEVICES REQUIRED OR DIRECTED BY THE OWNER'S REPRESENTATIVE TO PROTECT THE SAFETY OF THE ADJACENT STRUCTURES AND UTILITIES. ALL COSTS FOR THIS WORK SHALL BE INCLUDED IN CONTRACTORS BID.
2. DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT DROP WASTE CONCRETE, DEBRIS, AND OTHER MATERIAL INTO PRIEST RIVER OR ON TO ADJACENT PROPERTIES EXCEPT WHERE THE PLANS OR SPECIFICATIONS SPECIFICALLY PERMIT DEPOSITION OF MATERIAL. PLATFORMS, NETS, SCREENS, OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE OWNER'S REPRESENTATIVE DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED. IF MATERIAL FALLS ON THE AREA BELOW AND ADJACENT TO THE DAM, IT SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR IMMEDIATELY.
3. THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING, AND DISPOSING OF ALL ACCESS ROADS, PLATFORMS, NETS, SCREENS, AND OTHER PROTECTIVE DEVICES, SHALL BE INCLUDED IN THE BID PRICE OF THE CONTRACT.
4. CARE SHALL BE TAKEN TO RETAIN NATURAL GROWTH AND PREVENT DAMAGE TO TREES WITHIN AND OUTSIDE THE LIMITS OF CONSTRUCTION, AND NOT SCHEDULED FOR REMOVAL. ANY DAMAGE CAUSED TO THIS NATURAL GROWTH SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR, AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL CONDUCT REMOVAL OPERATIONS TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE SO AS NOT TO UNDULY DISTURB UNDERLYING MATERIALS WHICH ARE TO REMAIN IN PLACE. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, WILL NOT BE DISTURBED.

REMOVAL, EXCAVATION, AND BACKFILL NOTES (CONT'D)

6. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGE CAUSED BY THE CONTRACTOR'S ACTIVITIES TO ALL ACCESS ROADS TO THE OWNER'S SATISFACTION AND AT NO ADDITIONAL COST TO THE OWNER'S REPRESENTATIVE.

UTILITY NOTES

1. LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED AS EXISTING AS SHOWN ON THE PLANS, ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT OPERATIONS AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION.
2. SHOULD UTILITIES BE ENCOUNTERED DURING CONSTRUCTION WHICH INTERFERE WITH THE WORK AND FOR WHICH PROVISIONS ARE NOT PROVIDED ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF THEIR EXISTENCE AND EXTENT OF CONFLICT WITH THE WORK. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNING AGENCY TO MODIFY ITS FACILITY IN ORDER TO ALLOW THE WORK TO PROGRESS. ANY WORK AS A RESULT OF SUCH UTILITY CONFLICTS WILL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
3. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS, FROM MINOR SCRAPES TO SEVERING OF THE UTILITY SERVICE, SHALL BE IMMEDIATELY REPORTED TO THE UTILITY OWNER AND THE OWNER'S REPRESENTATIVE, AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

ENVIRONMENTAL PROTECTION NOTES

1. STREAM CONSERVATION: THE CONTRACTOR SHALL CONDUCT OPERATIONS TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE TO PREVENT ANY DAMAGE TO PRIEST RIVER FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM THE MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR THE WATERWAYS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM, OR TO A DITCH IMMEDIATELY FLOWING INTO A STREAM, ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH COULD CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. IF THE CONTRACTOR WANTS TO USE RIVER/LAKE WATER FOR CONSTRUCTION PURPOSES, A TEMPORARY WATER USE PERMIT IS REQUIRED FROM IDAHO DEPARTMENT OF WATER RESOURCES. IF THE CONTRACTOR USES WATER FROM A STREAM, HE/SHE SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM. THESE TEMPORARY MEASURES SHALL BE REMOVED AND THE AREA RESTORED AT THE COMPLETION OF THE WORK.
2. DEWATERING WILL BE REQUIRED FOR THE CONSTRUCTION OF CONCRETE SUBSTRUCTURES AND GATES. THE COST OF DEWATERING IS TO BE INCLUDED IN THE CONTRACTOR'S PRICE BID.
3. VISIBLY TURBID DISCHARGES FROM DEWATERING OPERATIONS OR EXCAVATION ACTIVITIES SHALL NOT BE ALLOWED TO ENTER THE RIVER. ANY SUCH DISCHARGE SHALL BE (1) RETAINED IN AN APPROPRIATELY MAINTAINED UPLAND SETTLING BASIN, OR (2) FILTERED THROUGH CRUSHED STONE, SAND, HAY BALES, AND SILT SCREENING (EQUIVALENT OPENING SIZE OF U.S. SIEVE NUMBER 20).
4. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT THE ENTRANCE OF FRESH CONCRETE INTO THE WATERS. EQUIPMENT, TOOLS, AND TRUCKS USED IN THIS PROJECT SHALL BE CLEANED IN SUCH A MANNER AS TO PREVENT WASH WATER FROM ENTERING ANY STREAM OR LAKE. WET CONCRETE IS HIGHLY TOXIC TO FISH.
5. SPILLAGE OF OIL AND HAZARDOUS SUBSTANCES IS ESPECIALLY PROHIBITED BY SECTION 311 OF THE CLEAN WATER ACT OF 1977. MEASURES INCLUDING PROPER MAINTENANCE OF CONSTRUCTION EQUIPMENT, DESIGNATING FUEL/HAZARDOUS SUBSTANCES HANDLING AREAS TO ALLOW SPILLS TO BE CONTAINED BEFORE REACHING THE WATERWAY, INSTRUCTING PERSONNEL NOT TO DISPOSE OF OIL AND OTHER SUCH MATERIALS INTO DRAINS OR INTO THE WATERWAY DIRECTLY, AND OTHER NECESSARY PROCEDURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION ACTIVITIES. IF IN SPITE OF SUCH PLANNING, OIL/HAZARDOUS SUBSTANCES ARE SPILLED INTO A WATER COURSE, IMMEDIATE NOTIFICATION SHALL BE GIVEN TO THE OWNER, OWNER'S REPRESENTATIVE, THE OWNER'S CONSTRUCTION MANAGER AND IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY. A CONTAINMENT BOOM AND A SUPPLY OF HAY, STRAW, OR OTHER ABSORBENT SHOULD BE RETAINED SO THAT IT MAY BE RAPIDLY DEPLOYED TO SOAK UP ANY POSSIBLE SPILLAGE, PENDING IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY ARRIVAL ON THE SCENE. THE USE OF CHEMICAL DISPERSING AGENTS AND EMULSIFIERS IS NOT AUTHORIZED WITHOUT PRIOR SPECIFIC FEDERAL OR STATE APPROVAL.
6. A PRE-CONSTRUCTION NOTIFICATION WILL BE SUBMITTED TO THE U.S. ARMY CORPS OF ENGINEERS FOR THE PROPOSED WORK TO BE PERFORMED BY THE OWNER UNDER NATIONWIDE PERMIT #3. THE CONTRACTOR SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE NATIONWIDE PERMIT AND THE PROVISIONS OF THE TITLE 5 OF ARTICLE 15 OF THE ENVIRONMENTAL CONSERVATION LAW.
7. A SILT FENCE SHALL BE INSTALLED AROUND THE ENTIRE PERIMETER OF ANY STONE, TOPSOIL, WASTE, OR OTHER STOCKPILES THAT WILL NOT BE USED OR STABILIZED WITHIN 14 DAYS.
8. SEDIMENTS COLLECTED DURING DE-WATERING ARE TO BE DISPOSED OF AT A NON-HAZARDOUS SOLID WASTE APPROVED FACILITY. THESE MATERIALS ARE NOT TO BE RE-USED ON SITE AS FILL MATERIAL UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE.
9. CONTRACTOR SHALL COMPLY WITH THE LOCAL NOISE ORDINANCE.

DAM NOTES

1. ALL GATES MUST BE IN PLACE AND FUNCTIONAL PRIOR TO REMOVING COFFERDAMS.
2. THE CONTRACTOR WILL NOT BE PERMITTED TO ERECT OR PLACE SCAFFOLDING OR OTHER TEMPORARY STRUCTURES OVER THE DAM WITHOUT THE WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE. THE REQUEST FOR APPROVAL OF PROPOSED SCAFFOLDING OR TEMPORARY STRUCTURES OVER THE DAM MUST BE ACCOMPANIED BY PLANS OR SKETCHES OF THE SCAFFOLDING OR TEMPORARY STRUCTURES, INCLUDING PLANS FOR REMOVAL OF SAID ELEMENTS.
3. ANY SCAFFOLDING, TEMPORARY STRUCTURES, MASKING SYSTEM, CONTAINMENT COMPONENT OR TIE DOWNS, ETC. SHALL NOT INTERFERE WITH THE OPERABLE GATES.
4. DURING THE COURSE OF WORK UNDER THIS CONTRACT, CARE SHALL BE EXERCISED THAT NO MATERIAL IS DROPPED INTO THE RIVER.
5. EACH YEAR, IN THE SPRING THE GATES ARE CLOSED AND PLACED INTO THE WATER TO BEGIN THE RECREATION SEASON AND IN THE WINTER THE GATES ARE OPEN AND REMOVED FROM THE WATER TO END THE RECREATION SEASON. APPROXIMATE OPENING AND CLOSING DATES FOR THE DAM ARE AS SCHEDULED BELOW.

2020/2021:
OPEN: NOVEMBER 1
CLOSED: AFTER APRIL 1

6. THE CONTRACTOR SHALL SCHEDULE AND PROGRESS WORK SUCH THAT THE DAM IS OPEN FOR USE WITHIN THE DATES NOTED ABOVE.
7. THE CONTRACTOR SHALL LIMIT THEIR WORK REQUIRING USE OF ANY WATER CONTROL STRUCTURE TO THE TIME PERIOD FROM "OPEN" TO "CLOSED" NOTED ABOVE.
8. THE CONTRACTOR SHALL NOT PERFORM ANY WORK DURING THE PEAK RECREATION SEASON IN THE TIME PERIOD FROM "CLOSED" TO "OPEN" NOTED ABOVE WHICH AFFECTS THE OPERATION OF THE GATES WITHOUT PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE.

ABBREVIATIONS:

ABUT	ABUTMENT	ITD	IDAHO TRANSPORTATION DEPARTMENT
ACI	AMERICAN CONCRETE INSTITUTE	IWRB	IDAHO WATER RESOURCE BOARD
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LOC	LIMITS OF CONSTRUCTION
AWS	AMERICAN WELDING SOCIETY	MAX	MAXIMUM
APPROX.	APPROXIMATELY	MIN	MINIMUM
BM	BENCHMARK	MLW	MEAN LOW WATER
B.O.	BOTTOM OF	MP	MAGNETIC PARTICLE TESTING
BOT	BOTTOM	N	NORTHING OR NORTH
B.W.	BOTH WAYS	NAD83	NORTH AMERICAN DATUM OF 1983
C	CENTERLINE	NAVDS8	NORTH AMERICAN VERTICAL DATUM OF 1988
COMM	COMMUNICATIONS	D.C.	ON CENTER
CPF	CONTROLLED DENSITY FILL	DHW	ORDINARY HIGH WATER
CIP	CAST-IN-PLACE	PPGW	PARTIAL PENETRATION GROOVE WELD
CLR	CLEAR	PQR	PROCEDURE QUALIFICATION RECORD
CONC	CONCRETE	QA	QUALITY ASSURANCE
CPGW	COMPLETE PENETRATION GROOVE WELD	QC	QUALITY CONTROL
Ø	DIAMETER	REF	REFERENCE
E	EASTING	R.F.	REAR FACE
EA	EACH	REINF	REINFORCEMENT
E.F.	EACH FACE	RT	RADIOGRAPHIC TESTING
EG	FOR EXAMPLE	S	SOUTH
EQ	EQUAL	SIM	SIMILAR
E.S.	EACH SIDE	SMAW	SHIELDED METAL ARC WELDING
E.W.	EACH WAY	STD	STANDARD
EOP	EDGE OF PAVEMENT	STA	STATION
EL	ELEVATION	T.O.	TOP OF
ETC.	AND SO ON	TYP	TYPICAL
EX. EXIST	EXISTING	UT	ULTRASONIC TESTING
FCAW	FLUX CORED ARC WELDING	VIF	VERIFY IN FIELD
FCM	FRACTURE CRITICAL MEMBER	WP	WORKING POINT
F.F.	FRONT FACE	WFS	WELD PROCEDURE SPECIFICATION
FT	FEET	WSEL	WATER SURFACE ELEVATION
GCP	GROUND CONTROL POSITION	W	WITH
GALV	(GALVANIZED)	AT	MINUTES OR FEET SECONDS OR INCHES

IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020

FOR BID

M M
MOTT MACDONALD

1601 5th Avenue
Suite 600
Seattle, Washington 98101

T: +1 (425) 778 4243
W: mottmac.com

IDAHO
DEPARTMENT OF WATER RESOURCES

322 Front Street Suite 642
P.O. Box 83720
Boise, Idaho 83702
P (208) 287-4800
F (208) 287-4700

Rev	Date	Drawn	Description	Chk'd	App'd
1	6/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

Project Number: **376997** B/O: **2** Total: **25**

Professional Engineer License: **16817** (State of Idaho) 6/16/20

Professional Engineer License: **18040** (State of Idaho)

Designed	J. Dawson	Eng check	S. Phillips
Drawn	T. Morrison	Coordination	
Design check		Approved	
Scale at ANSI D	Status	Rev	Security
Drawing Number:		GN-1	

Title: **Priest Lake Water Management Project Outlet Dam Improvements**

COPY

GENERAL NOTES AND ABBREVIATIONS

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GENERAL NOTES - CONT'D

CONCRETE NOTES:

- ALL STRUCTURAL CONCRETE WORK SHALL COMPLY WITH ACI 301-10 AND TO THE REQUIREMENTS IN SPECIFICATION SECTION 033000
- ALL REINFORCED CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO THE ACI "MANUAL OF CONCRETE PRACTICE", "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318-14) AND "ACI DETAILING MANUAL" (ACI SP 88), EXCEPT AS MODIFIED BY THE CONTRACT DRAWINGS AND SPECIFICATIONS
- CONCRETE FOUNDATIONS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

	fc	W/C RATIO
APRON SLAB, KEYWAY, WALLS	5000 PSI	0.40
PIERS	5000 PSI	0.40

CONCRETE SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 033000 CAST-IN-PLACE CONCRETE.

- ALL REINFORCING STEEL SHALL HAVE MINIMUM YIELD STRENGTH, fy=60 KSI AND SHALL BE NEW DEFORMED BILLET-STEEL CONFORMING TO ASTM A615, GRADE 60
- ALL DETAILING, BENDING, PLACEMENT AND SUPPORT OF REINFORCING SHALL CONFORM TO THE STANDARDS CITED
- CLEAR CONCRETE COVER OVER PRINCIPAL REINFORCING SHALL BE 3" WHEN CONCRETE IS CAST AGAINST OR PERMANENTLY IN CONTACT WITH GROUND AND 2" AT ALL OTHER LOCATIONS
- ALL STRUCTURAL MEMBERS SHALL BE CAST MONOLITHICALLY FOR THEIR FULL DEPTH, UNLESS OTHERWISE NOTED
- ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED, WETTED AND SPLASHED WITH CEMENT GROUT JUST PRIOR TO PLACING NEW CONCRETE
- THE SPACING OF REINFORCING SHOWN ON THE CONTRACT DRAWINGS IS THE MAXIMUM PERMITTED. IT MAY BE REDUCED FOR CONSTRUCTION CONSIDERATIONS, BUT IS NOT TO BE EXCEEDED
- WHERE INDICATED ON THE PLANS, ALL STRUCTURAL CONCRETE SHALL BE REMOVED TO THE DEPTH SPECIFIED, OR TO THE DEPTH AS ORDERED BY THE OWNER'S REPRESENTATIVE. BEFORE STARTING THIS WORK, THE CONTRACTOR SHALL SUBMIT A PLAN SHOWING THE PROPOSED METHOD, EQUIPMENT, AND SEQUENCE FOR THE REMOVAL WORK TO THE OWNER'S REPRESENTATIVE FOR APPROVAL
- EXPOSED REINFORCING STEEL THAT WILL REMAIN IN THE STRUCTURE SHALL BE PROTECTED FROM DAMAGE, AND BLAST-CLEANED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE
- ALL EXPOSED EDGES OF CONCRETE ARE TO BE CHAMFERED UNLESS OTHERWISE NOTED
- ALL FORMING HARDWARE SUCH AS TIES AND "ALL-THREADS" THAT ARE TO REMAIN IN THE CONCRETE SHALL BE ELECTROPLATED OR MADE OF A NON-FERROUS MATERIAL TO PREVENT CORROSION
- WHERE DRILLING AND GROUTING REINFORCING BARS, THE DIAMETER OF THE DRILLED HOLE SHALL BE AS RECOMMENDED BY THE EPOXY GROUT MANUFACTURER
- ALL CONCRETE ELEMENTS SHALL CONTAIN AN AIR ENTRAINMENT ADMIXTURE

**REINFORCING BAR EMBEDMENT/
LAP SPLICE SCHEDULE**

BAR SIZE	TOP BARS		OTHER BARS	
	EMBEDMENT	LAP	EMBEDMENT	LAP
	5000 PSI	5000 PSI	5000 PSI	5000 PSI
#3	17"	22"	13"	17"
#4	22"	29"	17"	22"
#5	28"	35"	21"	28"
#6	33"	43"	25"	33"
#7	48"	63"	37"	48"
#8	55"	72"	42"	55"

NOTES

- TOP BARS ARE THOSE WHICH ARE ORIENTED HORIZONTAL AND HAVE MORE THAN 12" OF CONCRETE BELOW THE BAR
- SPLICE BOTTOM BARS AT SUPPORTS
- SPLICE UPPER BARS IN MIDDLE 1/3 OF SPAN
- WHERE CONCRETE DEPTH PRECLUDES FULL EMBEDMENT, PROVIDE 90 HOOK
- PROVIDE CONCRETE PROTECTION FOR REINFORCEMENT AS DESCRIBED IN ACI 318 CHAPTER 20
- EMBEDMENT AND LAP SPLICE LENGTHS SHOWN ARE APPLICABLE TO ASTM A615 GR. 60 REINFORCING BARS

STEEL NOTES:

- ALL STRUCTURAL STEEL INCLUDING CONNECTIONS AND MISCELLANEOUS STEEL SHALL CONFORM TO THE REQUIREMENTS IN SPECIFICATION SECTION 051200
- ALL GALVANIC SHOP APPLIED COATINGS FOR STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN SPECIFICATION SECTION 050500
- ALL STEEL FABRICATION, FURNISHING, DELIVERY, AND ERECTION OF STRUCTURAL STEEL AND ITS COMPONENTS SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1 AND AISC MANUAL OF STEEL CONSTRUCTION (14TH EDITION)
- ALL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION SECTION 050500
- SHOP DRAWINGS OF ALL STRUCTURAL STEEL SHALL BE PREPARED AND SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW IN ACCORDANCE WITH AISC STANDARDS SHOWING ALL SHOP AND ERECTION DETAILS INCLUDING CUTS, COPEs, CONNECTIONS, ETC.
- FIELD BURNING OF HOLES WILL NOT BE PERMITTED
- ALL WELDING ELECTRODES SHALL CONFORM TO THE E-70 SERIES AS PER AWS STRUCTURAL WELDING CODE D1 1/D1.1M
- CARE SHALL BE TAKEN TO AVOID CAUSING DAMAGE TO EXISTING MEMBERS WHICH ARE TO REMAIN IN PLACE

J-SEAL NOTES:

- J-SEAL REQUIREMENTS:**
THE PROPOSED RADIAL GATE J-SEALS SHALL HAVE THE SAME CROSS-SECTIONAL DIMENSIONS AS THE EXISTING J-SEALS. THE CONTRACTOR SHALL MEASURE THE EXISTING J-SEAL DIMENSIONS AND/OR DEVELOP THE DIMENSIONS BASED ON THE ORIGINAL 1978 DRAWINGS IN ORDER TO DEVELOP THE PROPOSED J-SEAL DRAWINGS. THE CONTRACTOR SHALL SUBMIT J-SEAL MATERIAL INFORMATION AND J-SEAL SHOP DRAWINGS TO THE OWNER'S REPRESENTATIVE FOR APPROVAL
- DELIVERY, STORAGE, AND HANDLING OF J-SEALS:**
STORE J-SEALS IN A PLACE WHICH PERMITS FREE CIRCULATION OF AIR, MAINTAINS A TEMPERATURE OF 70 DEGREES F OR LESS, AND PREVENTS THE RUBBER FROM BEING EXPOSED TO THE DIRECT RAYS OF THE SUN. KEEP J-SEALS FREE OF OILS, GREASE, AND OTHER MATERIALS WHICH WOULD DETERIORATE THE RUBBER. J-SEALS SHALL NOT BE DISTORTED DURING HANDLING
- PRODUCTS - J-SEALS:**
J-SEALS SHALL BE RUBBER SEALS OF THE MOLD TYPE ONLY, SHALL BE COMPOUNDED OF NATURAL RUBBER, SYNTHETIC POLYISOPRENE, OR A BLEND OF BOTH, AND SHALL CONTAIN REINFORCING CARBON BLACK, ZINC OXIDE, ACCELERATORS, ANTIOXIDANTS, VULCANIZING AGENTS, AND PLASTICIZERS. PHYSICAL CHARACTERISTICS OF THE J-SEALS SHALL MEET THE FOLLOWING REQUIREMENTS:

PHYSICAL TEST	TEST VALUE	TEST METHOD SPECIFICATION
TENSILE STRENGTH	2500 PSI (MIN)	ASTM D412
ELONGATION AT BREAK	450% (MIN)	ASTM D412
300 PERCENT MODULUS	600 PSI (MIN)	ASTM D412
DUROMETER HARDNESS (SHORE TYPE A)	60 TO 70	ASTM D2240
WATER ABSORPTION	5% BY WEIGHT (MAX)	ASTM D471
COMPRESSION SET	30% TENSILE STRENGTH (MIN)	ASTM D395
TENSILE STRENGTH (AFTER AGING 48 HRS)	80% TENSILE STRENGTH (MIN)	ASTM D572

THE "WATER ABSORPTION" TEST SHALL BE PERFORMED WITH DISTILLED WATER. THE WASHED SPECIMEN SHALL BE BLOT DRY WITH FILTER PAPER OR OTHER ABSORBENT MATERIAL AND SUSPENDED BY MEANS OF SMALL GLASS RODS IN THE OVEN AT A TEMPERATURE OF 158 DEGREES F PLUS OR MINUS 2 DEGREES F FOR 22 HOURS PLUS OR MINUS 1/4 HOUR. THE SPECIMEN SHALL BE REMOVED, ALLOWED TO COOL TO ROOM TEMPERATURE IN AIR, AND WEIGHED. THE WEIGHT SHALL BE RECORDED TO THE NEAREST OUNCE AS W1 (W1 IS DEFINED IN ASTM D471). THE IMMERSION TEMPERATURE SHALL BE 158 DEGREES F PLUS OR MINUS 1 DEGREE F AND THE DURATION OF IMMERSION SHALL BE 168 HOURS.

- ASTM PUBLICATIONS:**
ASTM D395 (2016, E 2017) STANDARD TEST METHODS FOR RUBBER PROPERTY - COMPRESSION SET
ASTM D412 (2016) STANDARD TEST METHODS FOR VULCANIZED RUBBER AND THERMOPLASTIC ELASTOMERS - TENSION
ASTM D413 (1998, R 2017) STANDARD TEST METHODS FOR RUBBER PROPERTY - ADHESION TO FLEXIBLE SUBSTRATE
ASTM D471 (2016A) STANDARD TEST METHOD FOR RUBBER PROPERTY - EFFECT OF LIQUIDS
ASTM D572 (2004, R 2010) RUBBER DETERIORATION BY HEAT AND OXYGEN
ASTM D2240 (2015, E 2017) STANDARD TEST METHOD FOR RUBBER PROPERTY - DUROMETER HARDNESS

- J-SEAL FABRICATION AND INSTALLATION:**
J-SEALS SHALL BE CONTINUOUS OVER THE FULL LENGTH. J-SEALS SHALL BE ACCURATELY FITTED AND DRILLED FOR PROPER INSTALLATION. BOLT HOLES SHALL BE DRILLED IN THE J-SEALS BY USING PREPARED TEMPLATES OR THE RETAINER BARS AS TEMPLATES. SPLICES IN J-SEALS SHALL BE FULLY MOLDED, DEVELOP A MINIMUM TENSILE STRENGTH OF 50 PERCENT OF THE UNSPLICED SEAL, AND OCCUR ONLY AT LOCATIONS SHOWN ON THE DRAWINGS. ALL VULCANIZING OF SPLICES SHALL BE DONE IN THE SHOP. THE VULCANIZED SPLICES BETWEEN MOLDED CORNERS AND STRAIGHT LENGTHS SHALL BE LOCATED AS CLOSE TO THE CORNERS AS PRACTICABLE. SPLICES SHALL BE ON A 45-DEGREE BEVEL, RELATED TO THE "THICKNESS" OF THE J-SEAL. THE SURFACES OF FINISHED SPLICES SHALL BE SMOOTH AND FREE OF IRREGULARITIES. J-SEALS SHALL BE ADJUSTED AFTER INSTALLATION SO THAT THEY ARE SLIGHTLY COMPRESSED IN THE CLOSED, UNWATERED CONDITION TO PREVENT EXCESSIVE DEPRESSION AND WEAR IN THE CLOSED, WATERED CONDITION. BEFORE OPERATING THE GATES, A SUITABLE LUBRICANT SHALL BE APPLIED TO THE J-SEAL RUBBING PLATES TO PROTECT THE RUBBER.

METAL FABRICATION NOTES:

- THESE NOTES ARE INTENDED TO BE A GUIDELINE. THESE NOTES ARE NOT A COMPLETE LISTING OF ALL REQUIREMENTS. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE SPECIFICATIONS
- ALL STEEL SHALL BE OF DOMESTIC ORIGIN
- THE DIMENSIONAL TOLERANCE OF EACH INDIVIDUAL MEMBER SHALL BE IN ACCORDANCE WITH THE GOVERNING CODE, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. THE DIMENSIONAL TOLERANCE OF THE COMPLETED ASSEMBLY SHALL ALSO BE IN ACCORDANCE WITH THE LEAST RESTRICTIVE TOLERANCE OF THE INDIVIDUAL MEMBERS
- BOLTED CONNECTIONS:
 - MEMBERS OF CONNECTIONS SHALL BE MATCH MARKED AS NECESSARY FOR ASSEMBLY AFTER CLEANING AND GALVANIZING OF THE CONNECTION INNER PLIES.
 - INNER PLIES OF ALL BOLTED CONNECTIONS SHALL BE CLEANED
 - ALL BOLTING SHALL BE PERFORMED IN ACCORDANCE WITH AISC. THIS SHALL INCLUDE BOLT TENSION VERIFICATION AND SAMPLING OF FASTENERS.
- ALL EXPOSED EDGES ON PLATES AND SHAPES SHALL BE CHAMFERED TO A MINIMUM RADIUS OF 1/16" TO FACILITATE GALVANIZING

QUALITY CONTROL (QC) / QUALITY ASSURANCE (QA):

- THE CONTRACTOR/FABRICATOR IS RESPONSIBLE FOR QC AND THE OWNER'S REPRESENTATIVE MAY PERFORM QA AS DESCRIBED IN AISC. ANY QA PERFORMED BY THE OWNER'S REPRESENTATIVE WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PERFORM BOTH QC AND QA INSPECTION TESTS TO ENSURE THAT ALL PRODUCTS MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY CONCERNING UNACCEPTABLE MATERIALS AND WORKMANSHIP AND THE RESPONSIBILITY TO ACCEPTABLY REPAIR OR REPLACE THE SAME
- THE OWNER'S REPRESENTATIVE WILL INSPECT ALL STEEL AT THE TIME OF DELIVERY FOR WORKMANSHIP, FIT, AND CONFORMANCE TO THE CONTRACT DOCUMENTS. ANY MATERIAL WITH DEFECTS, DEFICIENCIES, UNAPPROVED CHANGES OR REPAIRS WILL BE CAUSE FOR IMMEDIATE REJECTION. REJECTED STEEL SHALL BE REMOVED AND REPLACED, OR REPAIRED BY A PROCEDURE APPROVED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.

REPAIR REQUIREMENTS:

- ANY REPAIRS TO STRUCTURAL STEEL MEMBER SHALL NOT BE PERFORMED UNTIL THE REPAIR PROCEDURE HAS BEEN APPROVED BY THE ENGINEER OF RECORD
- ANY MEMBER THAT HAS BEEN REPAIRED, OR IS BEING REPAIRED, WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD SHALL BE REJECTED, AND A NEW MEMBER SHALL BE FABRICATED AT NO ADDITIONAL COST TO THE OWNER
- ANY MEMBER WITH UNAPPROVED MILL CERTIFICATIONS, CATALOG CUT SHEETS, CHANGES OR REPAIRS, HAS MATERIAL DEFECTS, DISCONTINUITIES, MISPLACED BOLT HOLES, OR HAS BEEN WELDED BY AN UNQUALIFIED WELDER WILL BE CAUSE FOR IMMEDIATE REJECTION. REJECTED STEEL SHALL BE REMOVED AND REPLACED, OR REPAIRED BY A PROCEDURE APPROVED BY THE ENGINEER OF RECORD OR OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER
- GOVERNING WELDING SPECIFICATION:
 - THE FABRICATION AND WELDING OF ALL WELDS ON STEEL MEMBERS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE - D1.1/D1.1M.
- SHOP OR FIELD WELDING SHALL NOT BE PERFORMED ON ANY STEEL MEMBER UNTIL:
 - MILL CERTIFICATIONS AND CATALOG CUT SHEETS HAVE BEEN SUBMITTED AND EITHER "APPROVED" OR "APPROVED AS NOTED BY THE OWNER'S REPRESENTATIVE"
 - A COPY OF THE WELDER QUALIFICATIONS HAS BEEN SUBMITTED AND APPROVED BY THE OWNER'S REPRESENTATIVE, FOR ALL PERSONNEL WHO WILL BE WELDING ON THE WORK
 - THE WELD PROCEDURE SPECIFICATION (WPS) HAS BEEN SUBMITTED AND APPROVED, BY THE OWNER'S REPRESENTATIVE, FOR EACH JOINT IN THE WORK
 - THE PROCEDURE QUALIFICATION RECORD (PQR) HAS BEEN SUBMITTED AND APPROVED, BY THE OWNER'S REPRESENTATIVE, FOR EACH PROCESS TO BE USED IN THE WORK
- WELDER, WELDING OPERATOR, AND TACKER REQUIREMENTS:
 - ALL TAG, FILLET, AND CPGWS SHALL BE PERFORMED BY WELDERS CURRENTLY QUALIFIED FOR THE POSITION, PROCESS AND LOCATION (FIELD OR SHOP) TO BE USED IN THE WORK IN ACCORDANCE WITH AWS D1.1
 - ALL PPGWS SHALL BE PERFORMED BY WELDERS CURRENTLY QUALIFIED FOR THE POSITION, PROCESS AND LOCATION (FIELD OR SHOP) TO BE USED IN THE WORK IN ACCORDANCE WITH AWS D1.1
- TEMPORARY AND TACK WELDS:
 - PREHEAT IS REQUIRED FOR FIELD WELDED TEMPORARY OR TACK WELDS.
 - PREHEAT IS REQUIRED WHEN A TACK WELD IS NOT INCORPORATED INTO THE FINAL SUBMERGED ARC WELD
 - TEMPORARY OR TACK WELDS NOT INCORPORATED INTO THE FINAL WELD SHALL BE GROUND FLUSH WITH THE ORIGINAL SURFACE
- BOLTED CONNECTIONS:
 - BOLTING OR DRILLING OF HOLES SHALL NOT BE PERFORMED ON ANY STEEL MEMBER UNTIL THE MILL CERTIFICATIONS AND CATALOG CUT SHEETS HAVE BEEN SUBMITTED AND EITHER "APPROVED" OR "APPROVED AS NOTED BY THE OWNER'S REPRESENTATIVE"
 - BOLT HOLES SHALL NOT BE INSTALLED UNLESS SPECIFICALLY AND ACCURATELY DIMENSIONED ON THE SHOP DRAWINGS. MAXIMUM AND MINIMUM BOLT SPACING, EDGE DISTANCE, STITCH AND SEALING SPACINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AISC.

IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020

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Rev	Date	Drawn	Description	Ch'kd	App'd
1	8/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

Professional Engineer
LICENSED
STATE OF IDAHO
6/26/20

Professional Engineer
LICENSED
STATE OF IDAHO
18040

Project Number: 376997
BIO: 3
Total: 25

Designed	J. Dawson	Eng check	B. Phillips
Drawn	T. Morrison	Coordination	
Dwg check		Approved	
Scale at ANSI D	Status	Rev	Security
Drawing Number:	GN-2		

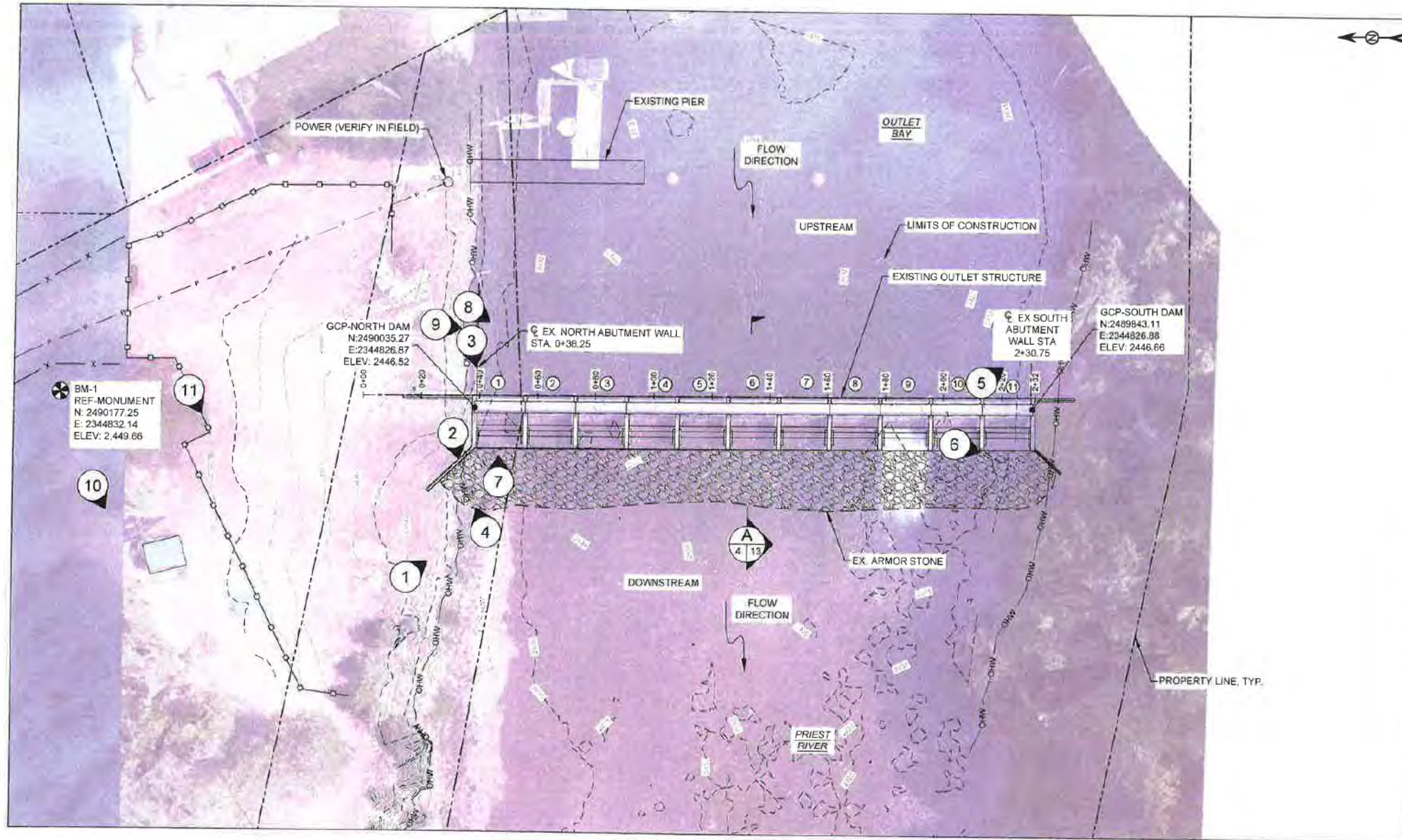
Priest Lake Water
Management Project
Outlet Dam Improvements

GENERAL NOTES

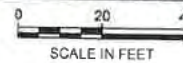
COPY

LEGEND

- ⊕ BENCHMARK
- Ⓢ BAY NUMBER
- ⓧ PHOTO NUMBER (SEE DWG PH-1 OR PH-2)
- - - - PROPERTY LINES
- - - - ORDINARY HIGH WATER (OHW)
- - - - LIMITS OF CONSTRUCTION
- P - POWER LINE
- S - SEWER LINE (VERIFY IN FIELD)
- ⊠ TEMPORARY FENCING



EXISTING SITE PLAN



NOTES

1. TOPOGRAPHIC AND BATHYMETRY SOURCE, MOTT MACDONALD DATA COLLECTION, AUGUST-SEPTEMBER 2018.
2. HORIZONTAL DATUM: NAD83, IDAHO STATE PLANE, WEST ZONE
3. VERTICAL DATUM: NAVD88
4. AERIAL SOURCE: DELPHIS, AUGUST 2018, UAV AERIAL PHOTOGRAMMETRY.

IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020

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Rev	Date	Drawn	Description	Ch'k'd	App'd
1	6/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

Professional Engineer
 License No. 18040
 State of Idaho
 License No. 18040
 State of Idaho
 Project Number: 376997
 B/O: 4
 Total: 25

Designed	E. Shenley	Eng check	S. Phillips
Drawn	T. Morrison	Coordination	
Dwg check		Approved	
Scale at ANSI D	Status	Rev	Security
1" = 20'			
Drawing Number	GP-1		

Title: Priest Lake Water Management Project Outlet Dam Improvements
OVERALL SITE PLAN - EXISTING CONDITIONS
COPY

GROUND PHOTO 1



GROUND PHOTO 2



GROUND PHOTO 3



GROUND PHOTO 4



GROUND PHOTO 5



GROUND PHOTO 6



GROUND PHOTO 7



GROUND PHOTO 8



GROUND PHOTO 9



FOR BID

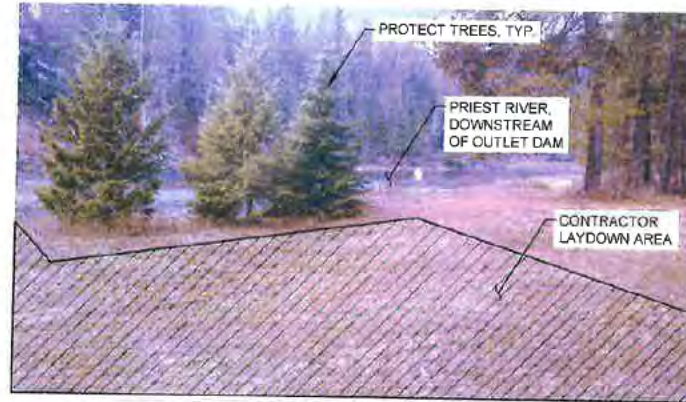
**IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020**

	1601 5th Avenue Suite 800 Seattle, Washington 98101 T +1 (425) 778 6243 W mottmac.com	IDAHO DEPARTMENT OF WATER RESOURCES 322 Front Street Suite 646 P.O. Box 83720 Boise, Idaho 83702 P (208) 287-4800 F (208) 287-6700	Project Number: 376997		B/O: 5		Total: 25		Drawing Number: PH-1		Title: Priest Lake Water Management Project Outlet Dam Improvements PHOTOS SHEET EXISTING CONDITIONS 1
			1 6/25/20 TM AMENDMENT 1 SK SP	0 5/20/20 TM FOR BID SK SP	Project Number: 376997	B/O: 5	Total: 25	Drawing Number: PH-1			

GROUND PHOTO 10



GROUND PHOTO 11



GROUND PHOTO 12



GROUND PHOTO 13



GROUND PHOTO 14



NOTE

1 FOR LOCATION OF GROUND PHOTOS 12, 13, AND 14, SEE DWG. C-1.

**IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020**

FOR BID

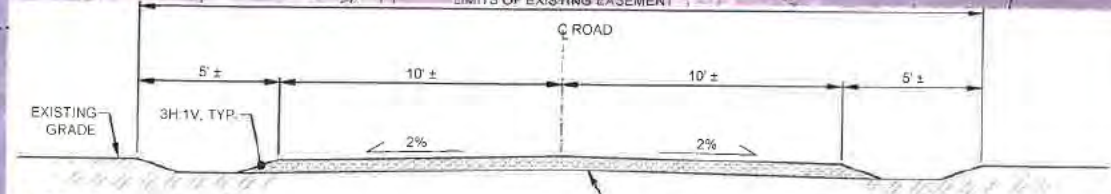
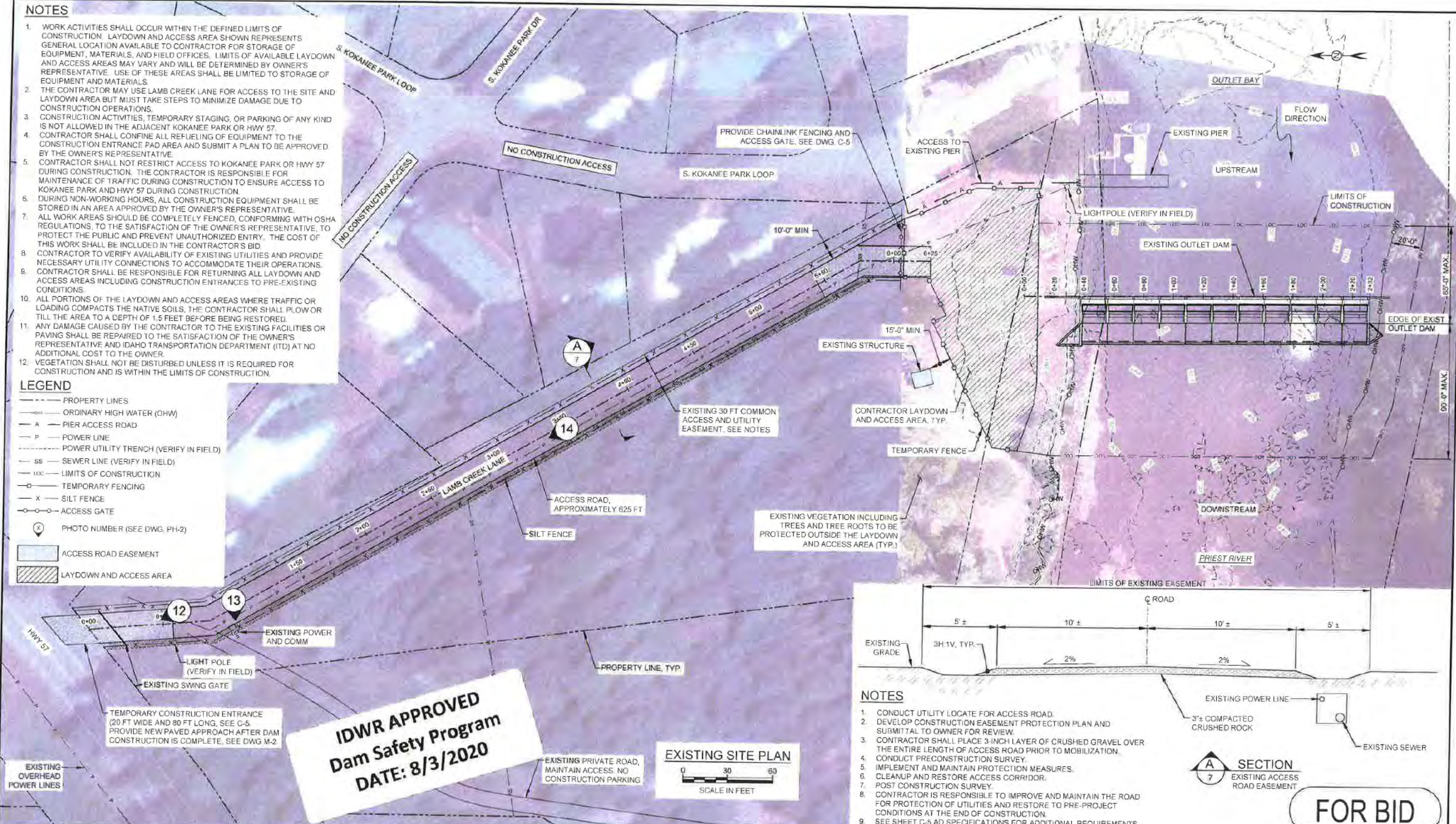
<p>1601 5th Avenue Suite 600 Seattle, Washington 98101</p> <p>T +1 (425) 778 6243 W mottmac.com</p>	<p>IDAHO DEPARTMENT OF WATER RESOURCES 322 Front Street Suite 648 P.O. Box 63720 Boise, Idaho 83702 P (208) 287-4800 F (208) 287-6700</p>	<table border="1"> <tr> <th>Rev</th> <th>Date</th> <th>Drawn</th> <th>Description</th> <th>Chk'd</th> <th>App'd</th> </tr> <tr> <td>1</td> <td>6/25/20</td> <td>TM</td> <td>AMENDMENT 1</td> <td>SK</td> <td>SP</td> </tr> <tr> <td>0</td> <td>5/20/20</td> <td>TM</td> <td>FOR BID</td> <td>SK</td> <td>SP</td> </tr> </table>		Rev	Date	Drawn	Description	Chk'd	App'd	1	6/25/20	TM	AMENDMENT 1	SK	SP	0	5/20/20	TM	FOR BID	SK	SP	<p>6/26/20</p>				<table border="1"> <tr> <td>Designed</td> <td>J. Dawson</td> <td>Eng check</td> <td>S. Phillips</td> </tr> <tr> <td>Drawn</td> <td>T. Morrison</td> <td>Coordination</td> <td></td> </tr> <tr> <td>Dwg check</td> <td></td> <td>Approved</td> <td></td> </tr> <tr> <td>Scale at ANSI D</td> <td>Status</td> <td>Rev</td> <td>Security</td> </tr> </table>		Designed	J. Dawson	Eng check	S. Phillips	Drawn	T. Morrison	Coordination		Dwg check		Approved		Scale at ANSI D	Status	Rev	Security	<p>Title Priest Lake Water Management Project Outlet Dam Improvements</p> <p>PHOTOS SHEET - EXISTING CONDITIONS 2</p>	
		Rev	Date	Drawn	Description	Chk'd	App'd																																						
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<p>Project Number: 376997</p>		<p>B/O: 6</p>		<p>Total: 25</p>		<p>Drawing Number: PH-2</p>		<p>COPY</p>																																					

NOTES

1. WORK ACTIVITIES SHALL OCCUR WITHIN THE DEFINED LIMITS OF CONSTRUCTION. LAYDOWN AND ACCESS AREA SHOWN REPRESENTS GENERAL LOCATION AVAILABLE TO CONTRACTOR FOR STORAGE OF EQUIPMENT, MATERIALS, AND FIELD OFFICES. LIMITS OF AVAILABLE LAYDOWN AND ACCESS AREAS MAY VARY AND WILL BE DETERMINED BY OWNER'S REPRESENTATIVE. USE OF THESE AREAS SHALL BE LIMITED TO STORAGE OF EQUIPMENT AND MATERIALS.
2. THE CONTRACTOR MAY USE LAMB CREEK LANE FOR ACCESS TO THE SITE AND LAYDOWN AREA BUT MUST TAKE STEPS TO MINIMIZE DAMAGE DUE TO CONSTRUCTION OPERATIONS.
3. CONSTRUCTION ACTIVITIES, TEMPORARY STAGING, OR PARKING OF ANY KIND IS NOT ALLOWED IN THE ADJACENT KOKANEE PARK OR HWY 57.
4. CONTRACTOR SHALL CONFINE ALL REFUELING OF EQUIPMENT TO THE CONSTRUCTION ENTRANCE PAD AREA AND SUBMIT A PLAN TO BE APPROVED BY THE OWNER'S REPRESENTATIVE.
5. CONTRACTOR SHALL NOT RESTRICT ACCESS TO KOKANEE PARK OR HWY 57 DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION TO ENSURE ACCESS TO KOKANEE PARK AND HWY 57 DURING CONSTRUCTION.
6. DURING NON-WORKING HOURS, ALL CONSTRUCTION EQUIPMENT SHALL BE STORED IN AN AREA APPROVED BY THE OWNER'S REPRESENTATIVE.
7. ALL WORK AREAS SHOULD BE COMPLETELY FENCED, CONFORMING WITH OSHA REGULATIONS, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, TO PROTECT THE PUBLIC AND PREVENT UNAUTHORIZED ENTRY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
8. CONTRACTOR TO VERIFY AVAILABILITY OF EXISTING UTILITIES AND PROVIDE NECESSARY UTILITY CONNECTIONS TO ACCOMMODATE THEIR OPERATIONS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING ALL LAYDOWN AND ACCESS AREAS INCLUDING CONSTRUCTION ENTRANCES TO PRE-EXISTING CONDITIONS.
10. ALL PORTIONS OF THE LAYDOWN AND ACCESS AREAS WHERE TRAFFIC OR LOADING COMPACTS THE NATIVE SOILS, THE CONTRACTOR SHALL PLOW OR TILL THE AREA TO A DEPTH OF 1.5 FEET BEFORE BEING RESTORED.
11. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING FACILITIES OR PAVING SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AND IDAHO TRANSPORTATION DEPARTMENT (ITD) AT NO ADDITIONAL COST TO THE OWNER.
12. VEGETATION SHALL NOT BE DISTURBED UNLESS IT IS REQUIRED FOR CONSTRUCTION AND IS WITHIN THE LIMITS OF CONSTRUCTION.

LEGEND

- PROPERTY LINES
- OHW --- ORDINARY HIGH WATER (OHW)
- A --- PIER ACCESS ROAD
- P --- POWER LINE
- POWER UTILITY TRENCH (VERIFY IN FIELD)
- SS --- SEWER LINE (VERIFY IN FIELD)
- LOC --- LIMITS OF CONSTRUCTION
- TEMPORARY FENCING
- X --- SILT FENCE
- ACCESS GATE
- ⊗ --- PHOTO NUMBER (SEE DWG, PH-2)
- ACCESS ROAD EASEMENT
- LAYDOWN AND ACCESS AREA



NOTES

1. CONDUCT UTILITY LOCATE FOR ACCESS ROAD.
2. DEVELOP CONSTRUCTION EASEMENT PROTECTION PLAN AND SUBMITAL TO OWNER FOR REVIEW.
3. CONTRACTOR SHALL PLACE 3-INCH LAYER OF CRUSHED GRAVEL OVER THE ENTIRE LENGTH OF ACCESS ROAD PRIOR TO MOBILIZATION.
4. CONDUCT PRECONSTRUCTION SURVEY.
5. IMPLEMENT AND MAINTAIN PROTECTION MEASURES.
6. CLEANUP AND RESTORE ACCESS CORRIDOR.
7. POST CONSTRUCTION SURVEY.
8. CONTRACTOR IS RESPONSIBLE TO IMPROVE AND MAINTAIN THE ROAD FOR PROTECTION OF UTILITIES AND RESTORE TO PRE-PROJECT CONDITIONS AT THE END OF CONSTRUCTION.
9. SEE SHEET C-5 AD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



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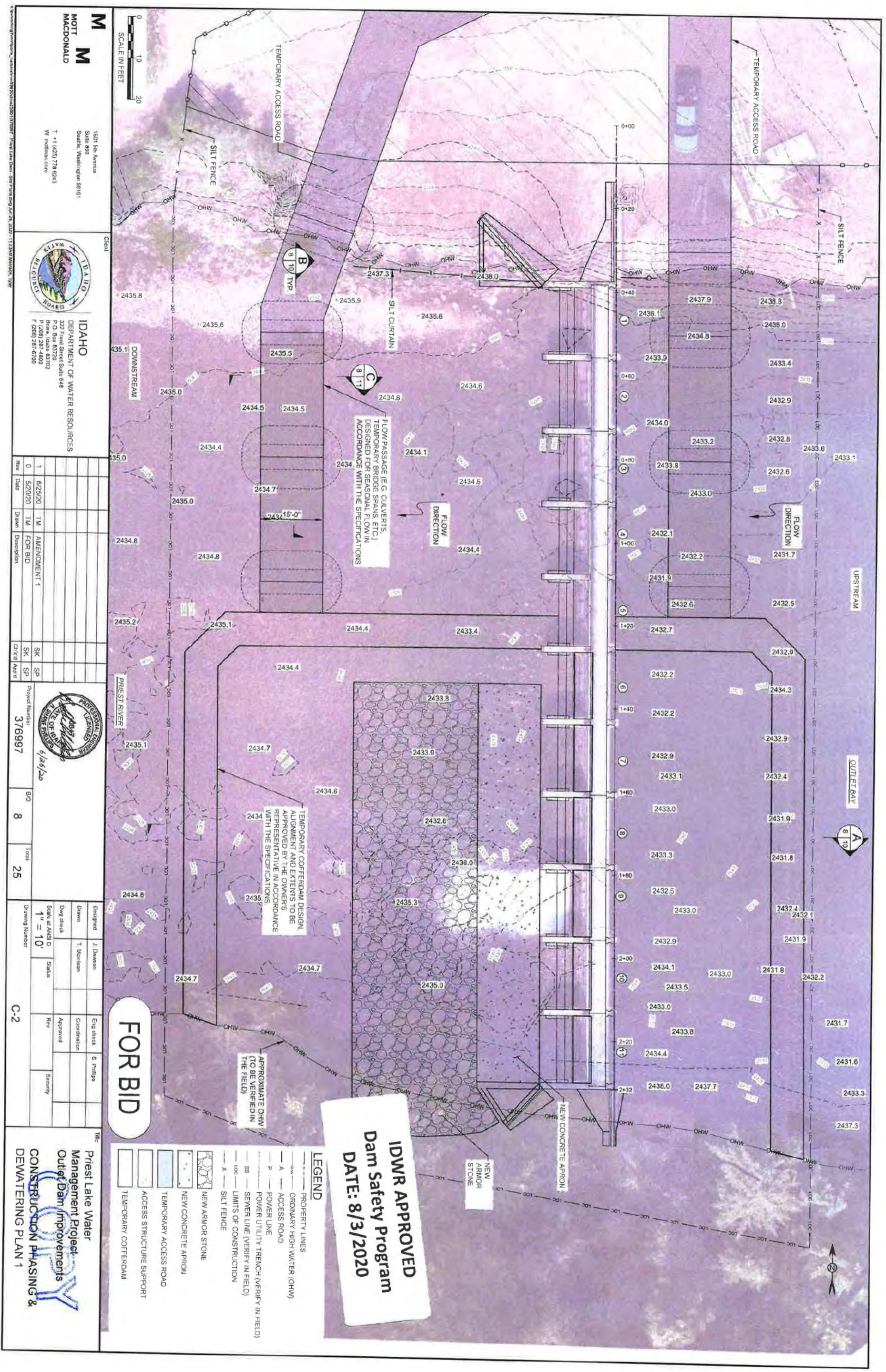
Rev	Date	Drawn	Description	Ch'kd	App'd
1	6/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

Project Number: 376997
BIO: 7
Total: 25
Professional Engineer Licenses for J. Dawson and T. Morrison.

Designed	J. Dawson	Eng check	S. Phillips
Drawn	T. Morrison	Coordination	
Dwg check		Approved	
Scale at ANSI D	As Noted	Status	Rev
Drawing Number	C-1	Security	

Title: Priest Lake Water Management Project Outlet Dam Improvements
CONSTRUCTION ACCESS AND WORK LIMITS PLAN

© Engineering/Plan/Portals/Barbours/06/25/20/013/160997 - Priest Lake Dam - Site Plans.dwg Jun 26, 2020 - 11:23AM Morrison, Tyler



IDWR APPROVED
 Dam Safety Program
 DATE: 8/3/2020

FOR BID

- LEGEND**
- PROPERTY LINES
 - ORDINARY HIGH WATER (OHW)
 - A- ACCESS ROAD
 - P- POWER LINE
 - SS- POWER UTILITY TRENCH (VERIFY IN FIELD)
 - LOC- SEWER LINE (VERIFY IN FIELD)
 - X- LIMITS OF CONSTRUCTION
 - X- SILT FENCE
 - NEW ARMOR STONE
 - NEW CONCRETE APRON
 - TEMPORARY ACCESS ROAD
 - ACCESS STRUCTURE SUPPORT
 - TEMPORARY COFFERDAM

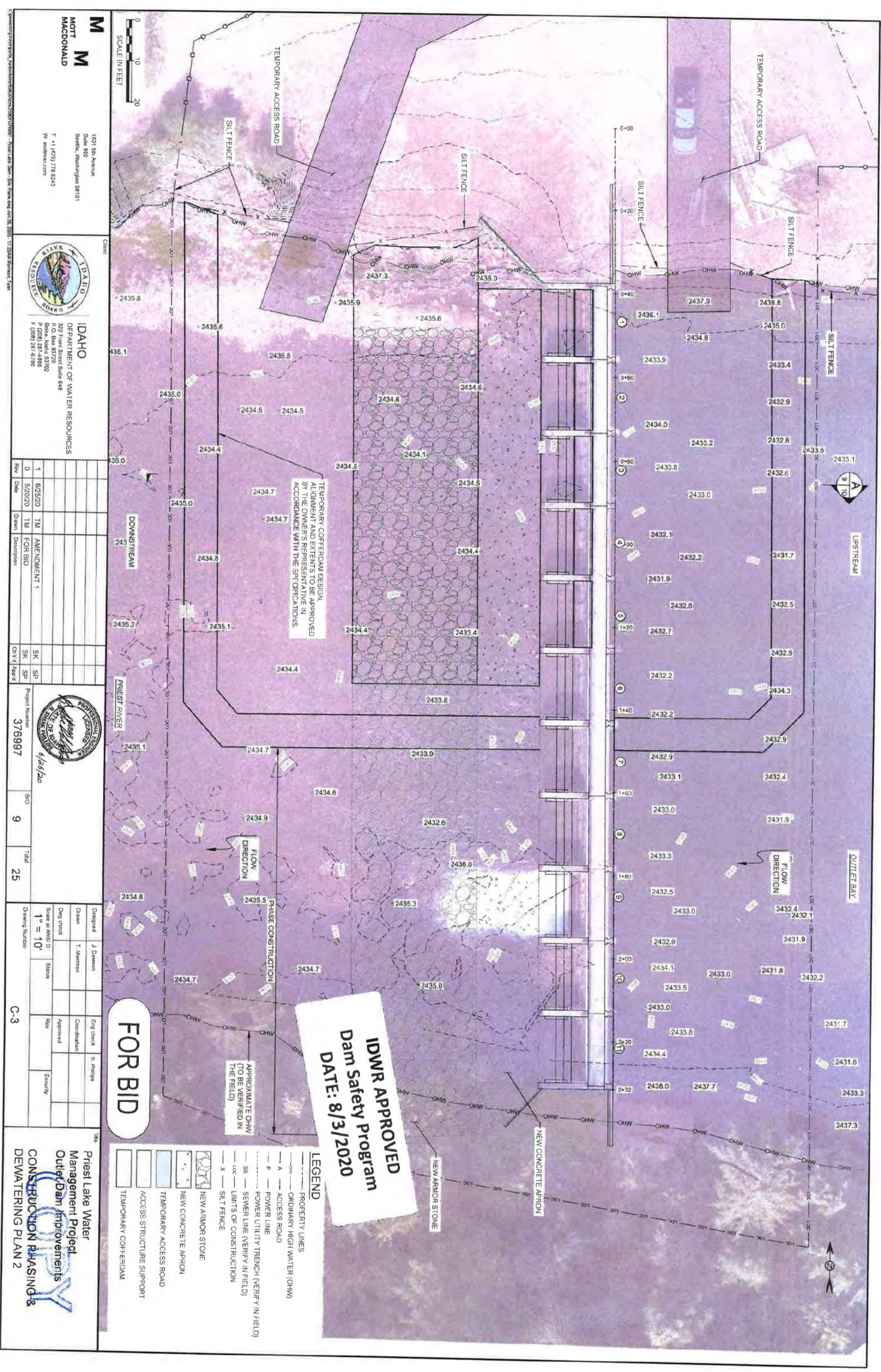
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Rev	Date	Drawn	Description	Checked	Approved
1	6/29/20	TW	AMENDMENT 1	SK	SP
0	5/29/20	TW	FOR BID	SK	SP

Project Number	376997	B/O	8	Total	25
Project Name	6/28/20	Designed	J. Dawson	Eng check	S. Phillips
		Drawn	T. Morrison	Coordination	
		Dwg check		Approved	
		Scale at A&B/D	1" = 10'	Rev	Stacey
		Drawing Number	C-2		

Priest Lake Water
 Management Project
 Outlet Dam Improvements
CONSTRUCTION PHASING & DEWATERING PLAN 1



TEMPORARY CONFERROOM DESIGN, ALIGNMENT AND EXTENTS TO BE APPROVED BY THE OWNER'S REPRESENTATIVE IN ACCORDANCE WITH THE SPECIFICATIONS.

FOR BID

IDWR APPROVED
 Dam Safety Program
 DATE: 8/3/2020

LEGEND

- PROPERTY LINES
- - - - - ORDINARY HIGH WATER (OHW)
- - - - - ACCESS ROAD
- - - - - POWER LINE
- - - - - POWER UTILITY TRENCH (VERIFY IN FIELD)
- - - - - SEWER LINE (VERIFY IN FIELD)
- - - - - LIMITS OF CONSTRUCTION
- - - - - SILT FENCE
- NEW ARMOR STONE
- NEW CONCRETE APRON
- TEMPORARY ACCESS ROAD
- ACCESS STRUCTURE SUPPORT
- TEMPORARY CONFERROOM

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Rev	Date	Drawn	Description	CHK'd	App'd
1	6/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

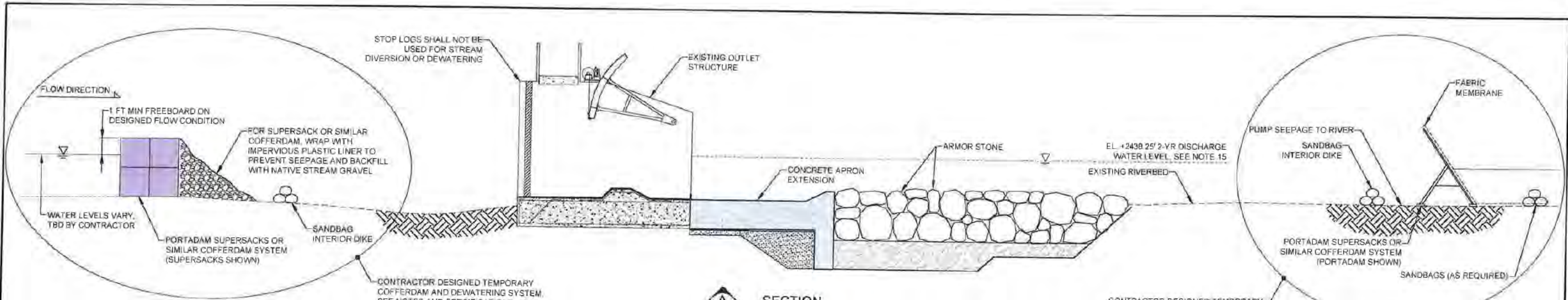
Professional Engineer
 State of Idaho
 License No. 14388
 6/26/20

Project Number: 376997
 BID: 9
 Total: 25

Designated	Drawn	Checked	App'd	Security
J. Dawson	T. Morrison			
Eng check	Coordination			
S. Phillips	Approved			

Dwg check: Scale at ANSI D
 1" = 10'
 Drawing Number: C-3

Priest Lake Water Management Project
 Outer Dam Improvements
CONSTRUCTION PHASING & DEWATERING PLAN 2



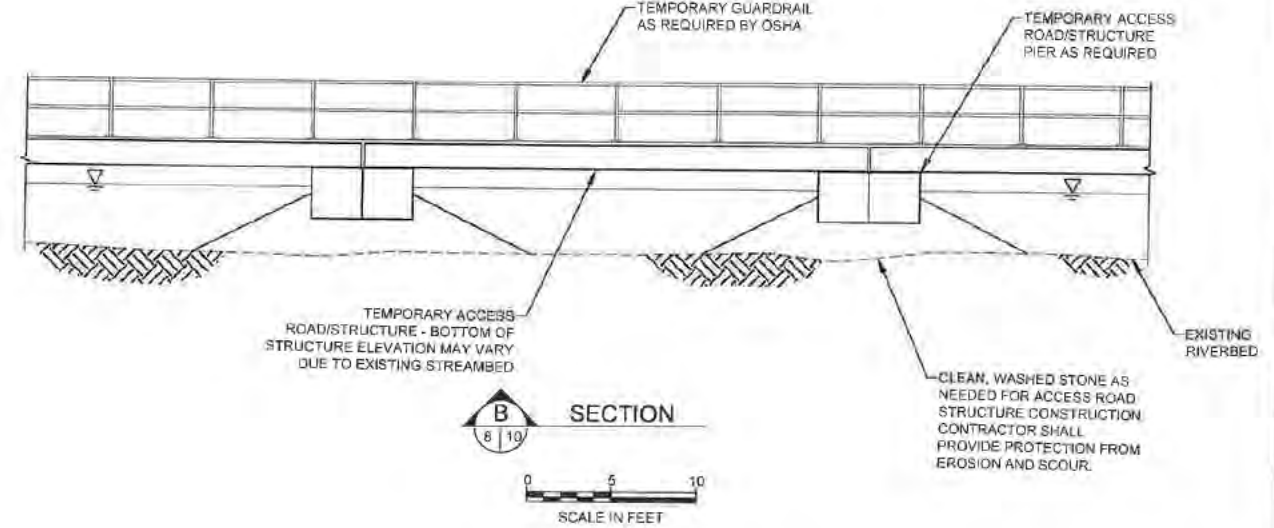
DEWATERING AND CONSTRUCTION PHASING NOTES

1. STREAM DIVERSION / DEWATERING
- A. DIVERSION AND CARE OF WATER IS RECOMMENDED TO OCCUR IN THE FOLLOWING ORDER, HOWEVER THE NUMBER OF PHASES SHALL BE DETERMINED BY THE CONTRACTOR:
- CONSTRUCT ACCESS ROAD / STRUCTURE AND SILT CURTAINS DURING ACCESS / STRUCTURE CONSTRUCTION
 - INSTALL PHASE 1 COFFERDAMS
 - INSTALL WATER DISCHARGE CONTROL SETTLING BASIN AND PERFORM PHASE 1 AREA DEWATERING
 - CONSTRUCT BAYS 6 TO 11
 - DISCONTINUE PUMPING AND ALLOW COFFERDAM AREA TO FLOOD TO THE LEVEL OF THE ADJACENT POOL
 - INSTALL PHASE 2 COFFERDAMS AND SILT CURTAINS
 - INSTALL WATER DISCHARGE CONTROL SETTLING BASIN AND PERFORM PHASE 2 AREA DEWATERING
 - CONSTRUCT BAYS 1 TO 5
 - DISCONTINUE PUMPING AND ALLOW COFFERDAM AREA TO FLOOD TO THE LEVEL OF THE ADJACENT POOL
 - REMOVE COFFERDAM AND RESTORE SITE
- B. THE DIVERSION SYSTEM / TEMPORARY COFFERDAM SHALL BE DESIGNED BY THE CONTRACTOR, SEE SPECIFICATIONS
- C. A TWO STAGE DEWATERING SYSTEM SHALL BE USED, SEE SPECIFICATIONS FOR WATER QUALITY REQUIREMENTS
2. THE CONTRACTOR SHALL PROVIDE A COFFERDAM THAT WILL ALLOW FOR DEWATERING AND CONSTRUCTION OF THE WORK WITHIN THE COFFERDAM LIMITS SHOWN ON THE PLANS. THE COFFERDAMS SHOWN ARE SCHEMATIC ONLY. ALL COFFERDAM DESIGNS, DETAILS, AND PLACEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
3. THE CONTRACTOR SHALL HAVE A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF IDAHO PREPARE A SET OF COFFERDAM PLANS AND CALCULATIONS WHICH ARE TO BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. ALL PLANS AND CALCULATIONS SHALL BEAR THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER LICENSED IN THE STATE OF IDAHO PREPARING THE DOCUMENTS.
4. CONTRACTOR SHALL CONSTRUCT SEDIMENT TRAPS SO THEY DRAIN BY GRAVITY FLOW OR MECHANICAL MEANS (PUMPS) TO PREVENT TURBID WATER FROM ENTERING THE RIVER.
5. CONTRACTOR'S COFFERDAM DESIGN SHALL INCLUDE DETAILS FOR THE CONNECTIONS AT THE PIER AND ABUTMENT INTERFACES TO SEAL THEM AND CONTROL SEEPAGE.
6. CONTRACTOR'S COFFERDAM DESIGN SHALL INCLUDE DETAILS FOR THE INTERFACE BETWEEN THE EXISTING STREAMBED IN PHASE 1 & 2 AND NEW STREAM BED ARMORING IN PHASE 2 TO SEAL THE COFFERDAMS AND CONTROL SEEPAGE.
7. CONTOURS SHOWN MAY NOT DEPICT ALL CONDITIONS WITHIN THE STREAMBED THAT MAY AFFECT THE DESIGN OF THE COFFERDAMS AND HEIGHT OF RETAINED WATER. CONTRACTOR IS RESPONSIBLE FOR PERFORMING A FIELD PRE-CONSTRUCTION SURVEY OF THE RIVERBED TO ENSURE THE DESIGN OF THE COFFERDAMS COVERS ALL CONDITIONS ENCOUNTERED DURING INSTALLATION AND CONSTRUCTION OPERATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS.

8. CONTRACTOR SHALL CONSTRUCT A TEMPORARY SETTLING BASIN FOR WATER DISCHARGE CONTROL AND PERFORM DEWATERING FOR THE DURATION OF THE WORK IN PHASE 1 & 2 OF CONSTRUCTION
9. CONTRACTOR SHALL PROVIDE PUMPING AND MAINTENANCE OF THE WATER DISCHARGE CONTROL SETTLING BASIN FOR THE DURATION OF THE PROJECT.
10. CONTRACTOR SHALL DISCONTINUE PUMPING AND ALLOW THE COFFERDAM AREA TO FLOOD TO THE LEVEL OF ADJACENT POOL UPON COMPLETION AND ACCEPTANCE OF THE WORK FOR EACH STAGE REQUIRING COFFERDAMS BY OWNER'S REPRESENTATIVE.
11. COFFERDAM REMOVAL OPERATIONS SHALL NOT CAUSE AN INCREASE IN TURBIDITY IN THE RIVERBED.
12. CONTRACTOR SHALL DETERMINE THE METHOD TO REDUCE TURBIDITY DURING CONSTRUCTION TO MEET PERMIT REQUIREMENTS. SILT CURTAIN IS INDICATIVE ONLY AND SHOWN DURING COFFERDAM INSTALLATION, ACCESS STRUCTURE CONSTRUCTION, AND EXCAVATION OPERATIONS.
13. HISTORICAL STREAMFLOW DISCHARGE STATISTICS (2, 5, AND 10-YR) AND CORRESPONDING WATER LEVELS FOR UNOBSTRUCTED FLOW THROUGH 11 GATES ARE PROVIDED IN THE TECHNICAL SPECIFICATIONS AND APPENDICES. CONTRACTOR TO DETERMINE THE REQUIRED DESIGN POOL ELEVATION FOR COFFERDAM AND DEWATERING DESIGN. WATER LEVELS DURING CONSTRUCTION WILL VARY BASED ON STREAM DISCHARGE AND THE NUMBER OF SPILLWAY BAYS THAT ARE CLOSED OFF FOR THE FLOW DIVERSION. CONTRACTOR TO DETERMINE DEPTH OF FLOW AND DESIGN THE COFFERDAM AND DEWATERING SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS.
14. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE WORK, PRIOR TO FINAL ACCEPTANCE, FOR FLOW CONDITIONS UP TO A 10-YR FLOW EVENT, SEE TECHNICAL SPECIFICATIONS.
15. 2-YR DISCHARGE WATER ELEVATION SHOWN IS UPSTREAM OF THE DAM WITH ALL GATES OPEN WITHOUT A COFFERDAM. REFER TO SPECIFICATIONS FOR DISCHARGE FLOW RATES AND COFFER DAM DESIGN REQUIREMENTS.

TEMPORARY ACCESS ROAD/STRUCTURE NOTES

1. CONTRACTOR SHALL CONSTRUCT A TEMPORARY ACCESS ROAD/STRUCTURE FOR CONSTRUCTION ACCESS TO BAYS 6 TO 11 FOR PHASE 1 CONSTRUCTION AS NEEDED. THE ACCESS ROAD/STRUCTURE SHOWN ABOVE IS SCHEMATIC. TEMPORARY ACCESS ROAD/STRUCTURE DESIGN, DETAILING, AND PLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL HAVE A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF IDAHO PREPARE A SET OF PLANS AND CALCULATIONS WHICH WILL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. ALL PLANS AND CALCULATIONS SHALL BEAR THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER LICENSED IN THE STATE OF IDAHO PREPARING THE DOCUMENTS.



IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020

FOR BID

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Rev	Date	Drawn	Description	Cr'd	App'd
1	8/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

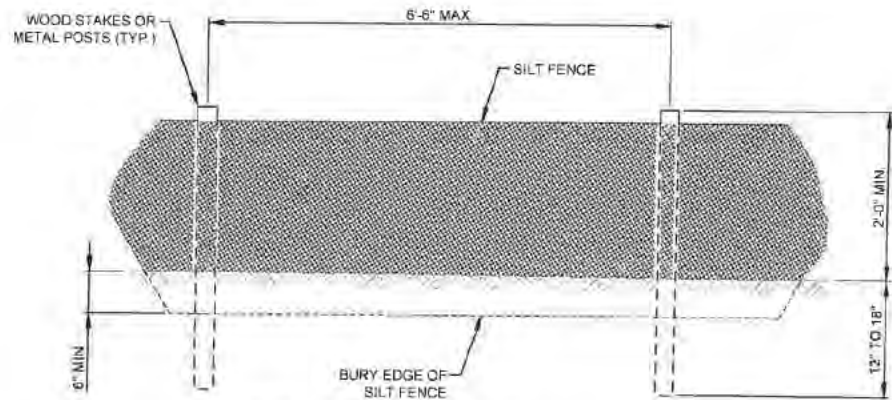
Project Number: 376997
 BIO: 10
 Total: 25

Designed	J. Dawson	Eng check	S. Phillips
Drawn	T. Morrison	Coordination	
Design check		Approved	
Scale at ANSI D	1" = 5'	Status	Rev
Drawing Number	C-4	Security	

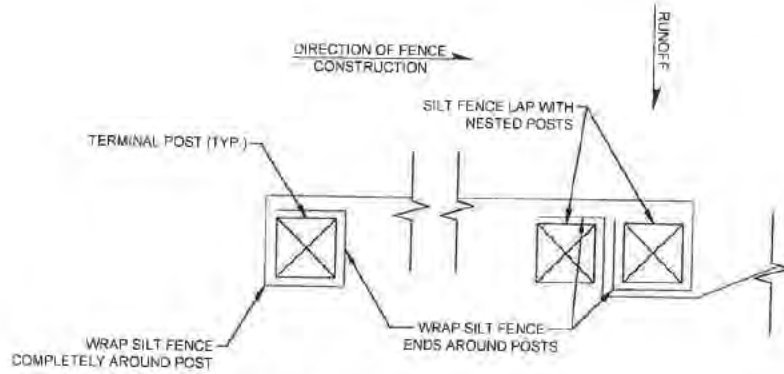
Title: Priest Lake Water Management Project Outlet Dam Improvements

DEWATERING DETAILS

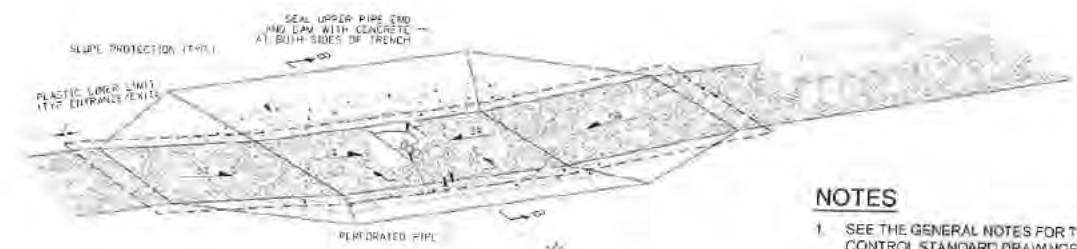
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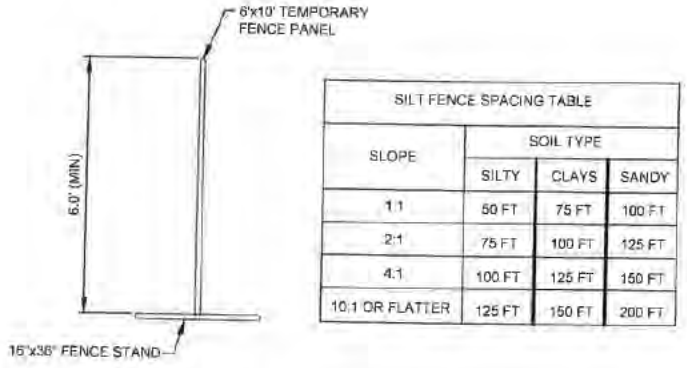
1 SILT FENCE DETAIL
NOT TO SCALE



2 SILT FENCE LAP DETAIL
NOT TO SCALE



- NOTES**
- SEE THE GENERAL NOTES FOR TEMPORARY EROSION CONTROL STANDARD DRAWINGS ON 212-1.
 - DRAWING NOT TO SCALE.



4 CHAIN LINK FENCE DETAIL
NOT TO SCALE

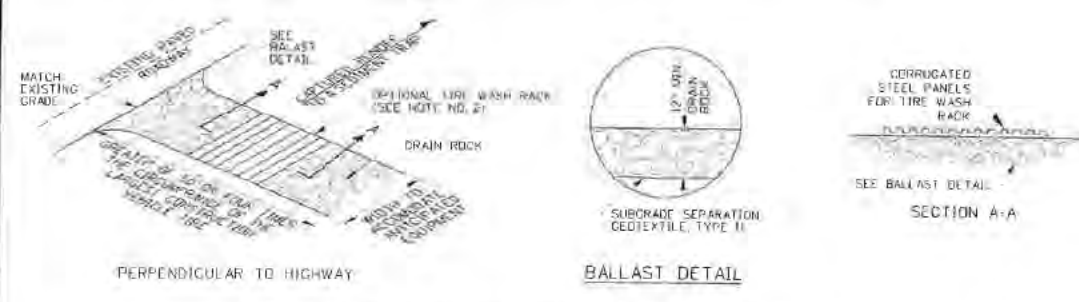
SLOPE	SOIL TYPE		
	SILTY	CLAYS	SANDY
1:1	50 FT	75 FT	100 FT
2:1	75 FT	100 FT	125 FT
4:1	100 FT	125 FT	150 FT
10:1 OR FLATTER	125 FT	150 FT	200 FT

- NOTES**
- INSTALL TEMPORARY SEDIMENT CONTROL BARRIERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS. THE DIMENSIONS SHOWN ARE GENERAL GUIDELINES.
 - PLACE SEDIMENT BARRIERS TO FOLLOW THE SLOPE CONTOURS. METAL POSTS OR WOOD STAKES MAY BE USED.
 - ENSURE THAT RUNOFF PASSES THROUGH THE SILT FENCE AND NOT AROUND THE FENCE.
 - THE NEED FOR TEMPORARY SEDIMENT CONTROL DEVICES ARE DETERMINED BY SITE DESIGN. SPACE SILT FENCES IN ACCORDANCE WITH THE SILT FENCE SPACING TABLE.
 - EXTEND OR JOIN SILT FENCE USING SILT FENCE LAP WITH NESTED POSTS.
 - REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF SILT FENCES WHEN ACCUMULATION HAS REACHED THE EFFECTIVE HEIGHT OF THE BARRIER.
 - SILT CURTAIN SHALL BE A MAXIMUM OF 100 FEET LONG FOR EACH SECTION OF CURTAIN REQUIRED. END SECTIONS SHALL TERMINATE 10 FEET BEYOND THE LIMIT OF DISTURBANCE.
 - THE SILT CURTAIN SHALL BE PLACED AS CLOSE TO THE WORK AS POSSIBLE WITHOUT INTERFERING WITH CONSTRUCTION OPERATIONS.
 - THE CONTRACTOR SHALL CONTINUALLY MONITOR THE INSTALLATION, TAKING INTO ACCOUNT WEATHER PATTERNS AND PREVAILING WIND DIRECTIONS THAT MAY AFFECT WATER LEVELS, VELOCITY AND MOVEMENT OF THE SILT CURTAIN.
 - THE SILT CURTAIN SHALL BE REMOVED BY PULLING TOWARD THE SHORE TO MINIMIZE ESCAPE OF SEDIMENTS INTO THE WATERWAY.
 - THE WEIGHTED ANCHORING SYSTEM SHALL BE A TYPE THAT ALLOWS THE CURTAIN TO CONFORM TO THE CONTOUR OF THE BOTTOM OF THE WATERWAY.
 - CONSTRUCTION, DISTURBANCE AND LAYDOWN AREAS SHOWN ON PLAN ARE APPROXIMATE AND THE CONTRACTOR IS RESPONSIBLE FOR THE COST RELATED TO CHANGES TO THE SWPP AT NO ADDITIONAL COST TO THE OWNER IF ANY OF THESE AREAS ARE EXCEEDED.
 - THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL AREAS OF SOIL DISTURBANCE ARE STABILIZED DURING CONSTRUCTION AND WHENEVER WORK IS SUSPENDED ON THE PROJECT. CONTRACTOR SHALL SEED AND MULCH THESE AREAS AS REQUESTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL NOT WASH CONCRETE TRUCKS ONTO THE BARE GROUND, DIRECTLY INTO STORM OR SANITARY SYSTEMS INCLUDING SWALES, DITCHES OR ADJACENT PROPERTIES. EXCESS CONCRETE AND WASH WATER SHALL BE COLLECTED IN WASH BASIN AND DISPOSED OF PROPERLY.



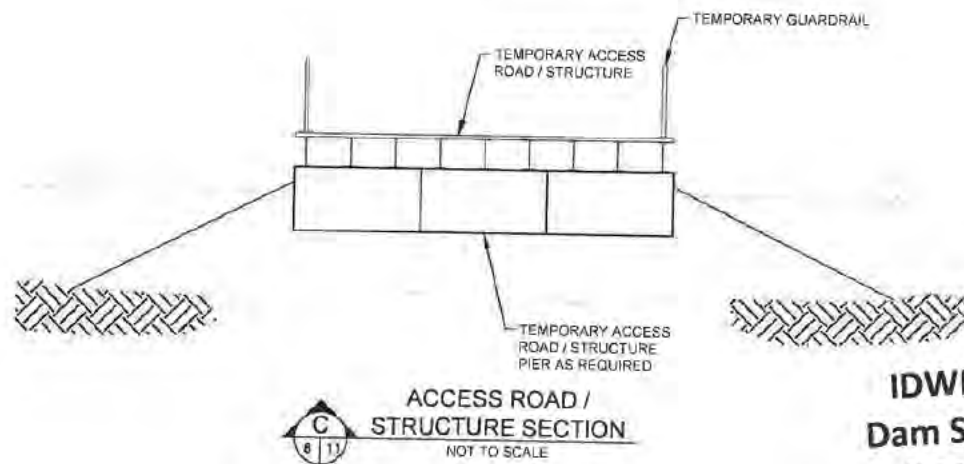
VEHICLE AND EQUIPMENT WASHDOWN

NOTE
PROVIDE WASHDOWN AREA IN ACCORDANCE WITH ITD STANDARD DRAWING 212-5.



3 TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE

NOTE
PROVIDE TEMPORARY CONSTRUCTION ENTRANCE IN ACCORDANCE WITH ITD STANDARD DRAWING 212-6.



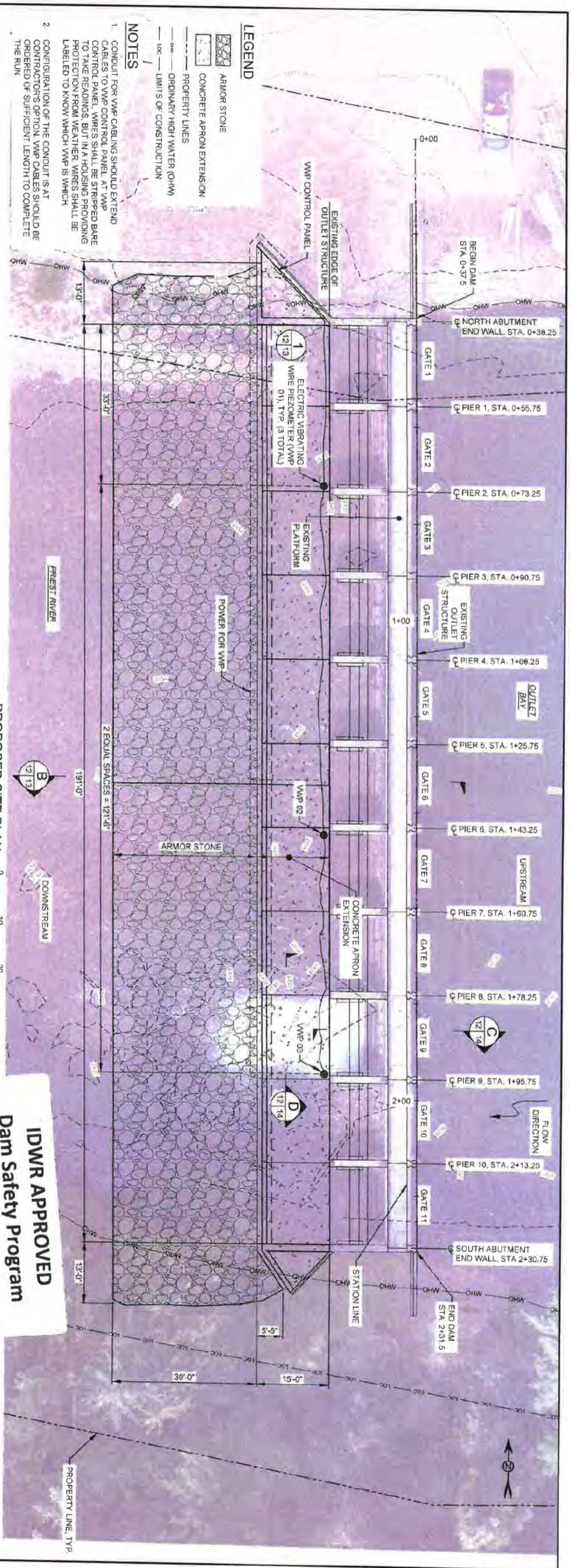
ACCESS ROAD / STRUCTURE SECTION
NOT TO SCALE

- CONSTRUCTION NOTES**
- SPECIAL CONDITIONS APPLY TO THE USE OF LAMB CREEK LANE, SEE TECHNICAL SPECIFICATIONS. THE FOLLOWING CONDITIONS APPLY TO THE ACCESS ROAD:
CONTRACTOR SHALL PROVIDE PERIODIC GRAVEL AND GRADING TO ENSURE RUTTING DOESN'T OCCUR AND ROAD SECTION IS MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.
CONTRACTOR SHALL INSTALL STEEL TRENCH PLATES AT LOCATION WHERE CONSTRUCTION TRAFFIC WILL PASS OVER BURIED UTILITIES WITH LESS THAN 4 FEET OF COVER AND ALL LATERALS TO EACH LOT.
 - CONTRACTOR ACCESS OUTSIDE OF THE INDICATED ACCESS ROAD ROUTE AND PROJECT SITE LIMITS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE OWNER.
 - CONTRACTOR SHALL ACTIVELY CLEAR THE ACCESS ROAD HAUL ROUTE DURING PERIODS WHEN SNOW IS PRESENT, AND IT PRECLUDES SAFE EQUIPMENT ACCESS TO THE PROJECT SITE LIMITS.
 - CONSTRUCTION ACCESS TO HAVE CHAINLINK SECURITY FENCING AND GATE TO PRECLUDE PUBLIC ACCESS DURING NON-WORKING HOURS.
SIGN SHALL BE INSTALLED ALONG ACCESS SHORE ROAD LOT 10 TO OHW LINE.

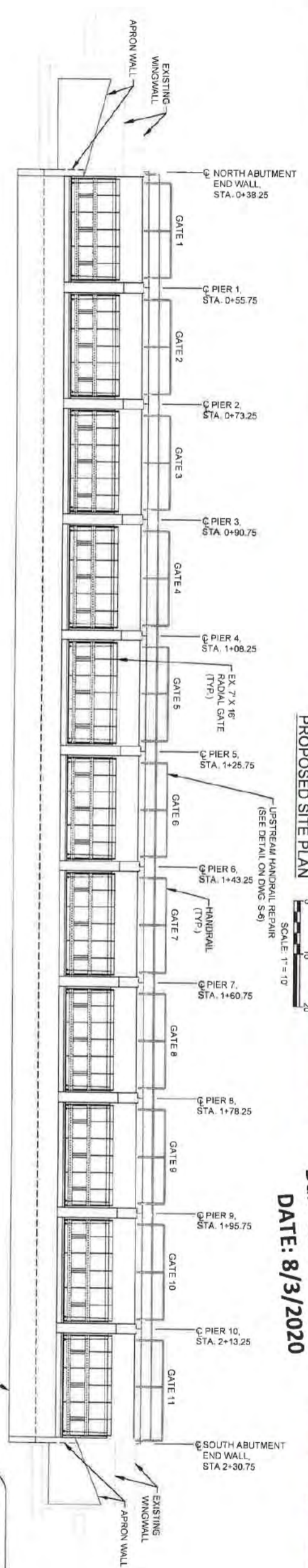
IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020

FOR BID

	1501 5th Avenue Suite 800 Seattle, Washington 98101 T +1 (425) 779-6243 W mottmac.com		IDAHO DEPARTMENT OF WATER RESOURCES 322 Front Street Suite 648 P.O. Box 83720 Boise, Idaho 83702 P (208) 287-4800 F (208) 287-8700	1 5/25/20 TM AMENDMENT 1 SK SP 0 5/20/20 TM FOR BID SK SP		Designed J Drawn T. Morrison Dwg check As Noted Project Number 376997 B/D 11 Total 25	Eng check S. Phillips Coordination Approved Rev Security	Title Priest Lake Water Management Project Outlet Dam Improvements TEMPORARY EROSION & SEDIMENT CONTROL DETAILS
	Drawing Number C-5		Scale at ANSI D		Drawing Number C-5			



IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020



FOR BID

LEGEND

- ARMOR STONE
- CONCRETE APRON EXTENSION
- PROPERTY LINES
- ORDINARY HIGH WATER (OHW)
- LIMITS OF CONSTRUCTION

NOTES

1. CONDUIT FOR VWP CABLING SHOULD EXTEND CABLES TO VWP CONTROL PANEL AT VWP CONTROL PANEL. WIRES SHALL BE STRIPPED BARE TO TAKE READINGS, BUT IN A HOUSING PROVIDING PROTECTION FROM WEATHER. WIRES SHALL BE LABELED TO KNOW WHICH VWP IS WHICH.
2. CONFIGURATION OF THE CONDUIT IS AT CONTRACTOR'S OPTION. VWP CABLES SHOULD BE ORDERED OF SUFFICIENT LENGTH TO COMPLETE THE RUN.

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Rev	Date	Drawn	Description
1	6/25/20	TM	AMENDMENT 1
0	5/20/20	TM	FOR BID



Project Number	376997
BID	12
TOTAL	25

Designed	Drawn	Checked	Scale at ANS/D	Status
J. Dawson	T. Morrison	S. Phillips	As Noted	Rev

Title: Priest Lake Water Management Project Outlet Dam Improvements
GENERAL DAM PLAN AND ELEVATION

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WORK LIST

SCOUR COUNTERMEASURES

1. FILL SCOURED AREAS ALONG THE DOWNSTREAM EDGE OF THE EXISTING APRON WITH EXCESS STREAMBED MATERIAL OR CLEAN FILL.
2. REMOVE EXISTING ARMOR STONE DOWNSTREAM OF EXISTING CONCRETE APRON. PROVIDE NEW ARMOR STONE DOWNSTREAM OF NEW APRON.
3. PREPARE SUBGRADE BENEATH APRON EXTENSION, KEYWAY, AND ARMOR STONE.

CONCRETE ELEMENTS

1. REFACE THE EDGE OF PIER 6.
2. INSTALL NEW APRON EXTENSION WITH KEYWAY AND UPSTAND.
3. REPAIR EXISTING UPSTREAM AND DOWNSTREAM WING WALL EXPANSION JOINTS.

TAINTER GATE SYSTEM

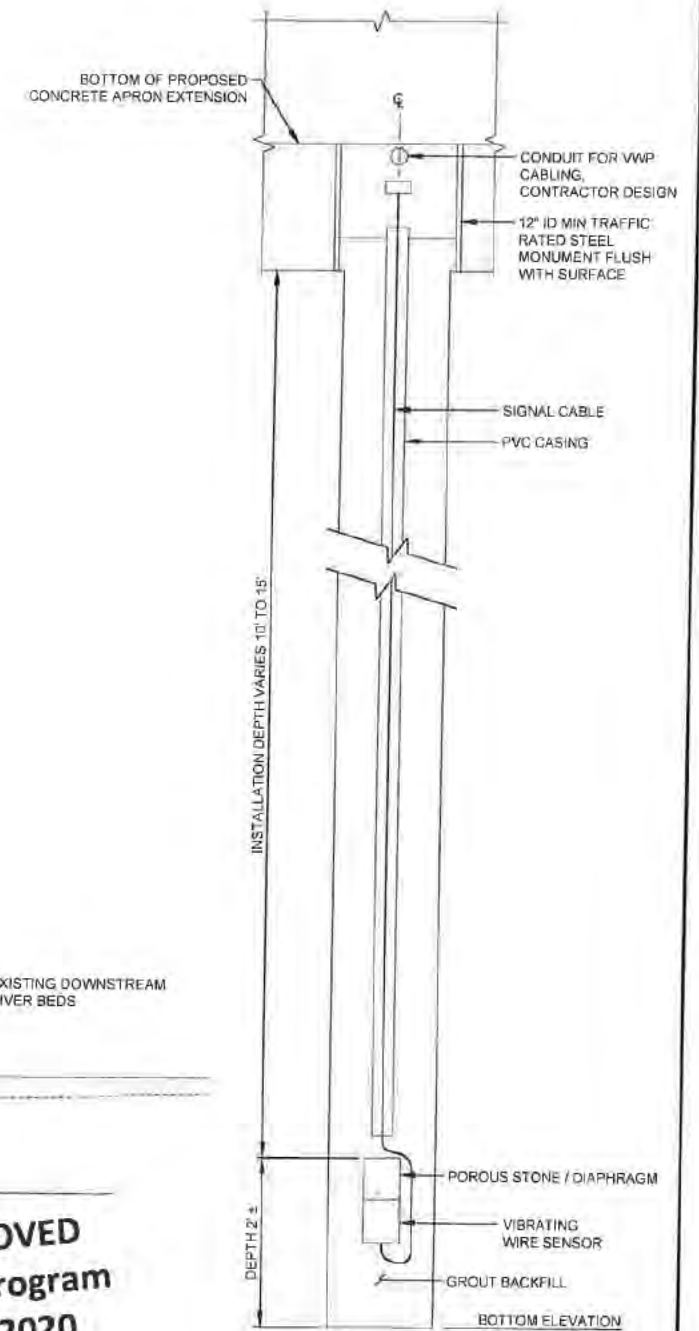
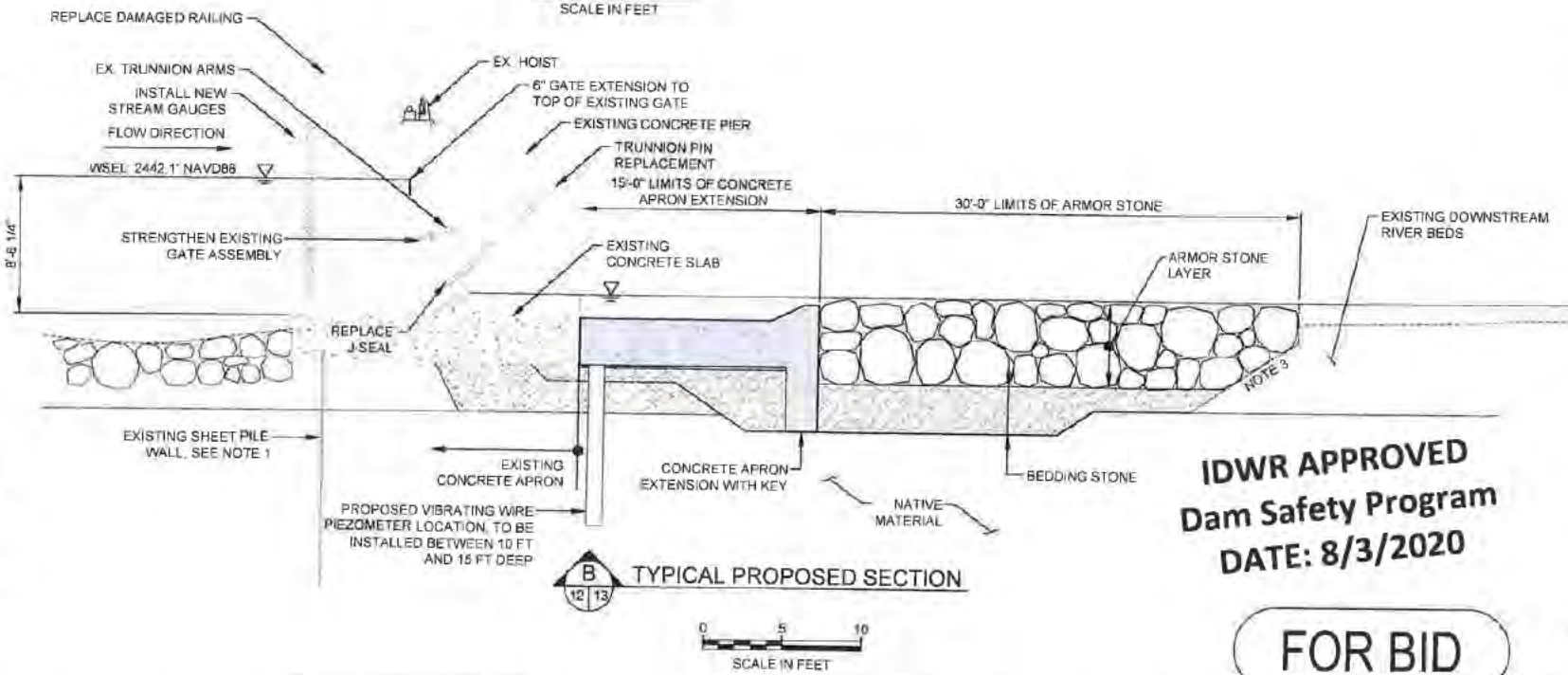
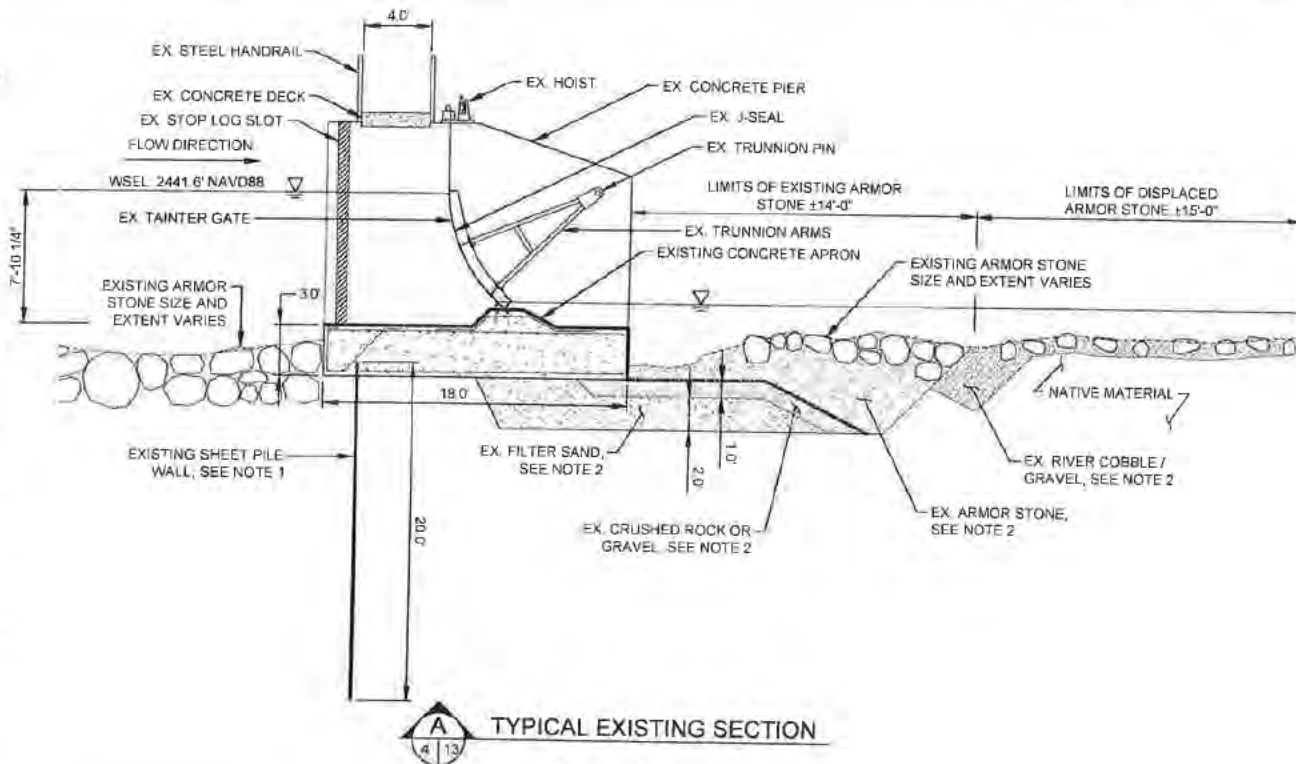
1. INSTALL NEW TAINTER GATE EXTENSION AT ALL 11 EXISTING TAINTER GATES.
2. INSTALL REINFORCING RIBS ON LOWER SECTION OF SKIN PLATE AT ALL 11 EXISTING TAINTER GATES.
3. REPLACE BOTH TRUNNION PINS AT ALL 11 EXISTING TAINTER GATES.
4. REPLACE EXISTING J - SEALS ON BOTH SIDES OF ALL 11 EXISTING TAINTER GATES WITH EXTENSION TO ACCOMMODATE GATE EXTENSION.
5. REMOVE AND REPLACE EXISTING TRUNNION PIN GREASE FITTINGS WITH LONGER FITTINGS.

MISCELLANEOUS ELEMENTS

1. REPLACE DAMAGED PORTION OF HANDRAIL.
2. INSTALL VIBRATING PIEZOMETERS AT 3 LOCATIONS W/ CONTROL PANEL ON N. ABUTMENT.
3. INSTALL 2 NEW STREAM GAUGES ON UPSTREAM FACE OF NORTH AND SOUTH ABUTMENTS.

NOTES

1. SHEET PILE WALL IS SHOWN PER 1978 DESIGN DRAWINGS.
2. DOWNSTREAM ARMOR STONE AND BEDDING STONE UNDER LAYER LIMITS ARE SHOWN PER TECHNICAL SECTION DESIGN DRAWINGS.
3. SLOPE OF ARMOR STONE SURFACE VARIES TO MEET EXISTING RIVER BED.
4. THE LIMITS OF ORIGINAL ARMOR STONE SHOWN IN SECTION A EXTEND ACROSS THE ENTIRE WIDTH OF THE DAM ALONG THE DOWNSTREAM EDGE LIMITS IN THE SECTION ARE BASED ON 1978 DESIGN DRAWINGS AND SITE CONDITIONS OBSERVED IN THE FIELD.
5. DUE TO THE EXISTING STREAM BED MATERIALS, COMPACTED NATURE OF THE NATURAL SUBGRADE SOILS, AND DISPLACEMENT EFFECTS OF RIVER FLOW THE CONTRACTOR CAN ANTICIPATE ENCOUNTERING ARMOR STONE, COBBLES, BOULDERS, AND OTHER OBSTRUCTIONS IN THE RIVERBED AND BANKS OF THE PROPOSED CONSTRUCTION ZONE. THE COST TO REMOVE, DISPOSE OF, STORE, OR REINSTATE THE ARMOR STONE, COBBLES, BOULDERS, AND OTHER OBSTRUCTIONS TO FACILITATE CONSTRUCTION SHALL BE INCLUDED IN THE CONTRACTORS BID.
6. THE LIMITS OF DISPLACED ARMOR STONE SHOWN ARE APPROXIMATE ACTUAL WIDTHS AND DEPTHS MAY VARY. CONTRACTOR SHALL VERIFY THE CONDITIONS IN THE FIELD.
7. VIBRATING WIRE PIEZOMETER SHALL BE EQUIVALENT TO DURHAM GEO SLOPE INDICATOR PART NUMBER 52611825. LOW-PRESSURE VIBRATING WIRE PIEZOMETER (25PSI) WITH CABLING PART NUMBER 50613824. LENGTH DETERMINED BY CONTRACTOR.
8. VIBRATING WIRE PIEZOMETER SHALL BE LOCATED IN A BOREHOLE EMBEDDED BETWEEN 10 AND 15 FEET BELOW THE APRON AT CONTRACTOR DISCRETION, BUT ITS ELEVATION SHALL BE MEASURED TO BE ACCURATE TO WITHIN 2 INCHES.
9. CONTRACTOR TO PROVIDE AS-BUILT DRAWING OR MARKUP IDENTIFYING ELEVATION OF VIBRATING WIRE PIEZOMETER, CONDUIT RUNS, AND VIBRATING WIRE PIEZOMETER LABELING AT VIBRATING WIRE PIEZOMETER CONTROL PANEL.



**IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020**

FOR BID

**ELECTRIC VIBRATING
WIRE PIEZOMETER
NOT TO SCALE**

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Rev	Date	Drawn	Description	CHK'd	App'd
1	6/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

Project Number: 376997
B/D: 13
Total: 25

Designed	J. Dawson	Eng check	S. Phillips
Drawn	T. Morrison	Coordination	
Dwg check		Approved	
Scale at ANSI D	As Noted	Status	Rev
Drawing Number	S-2		

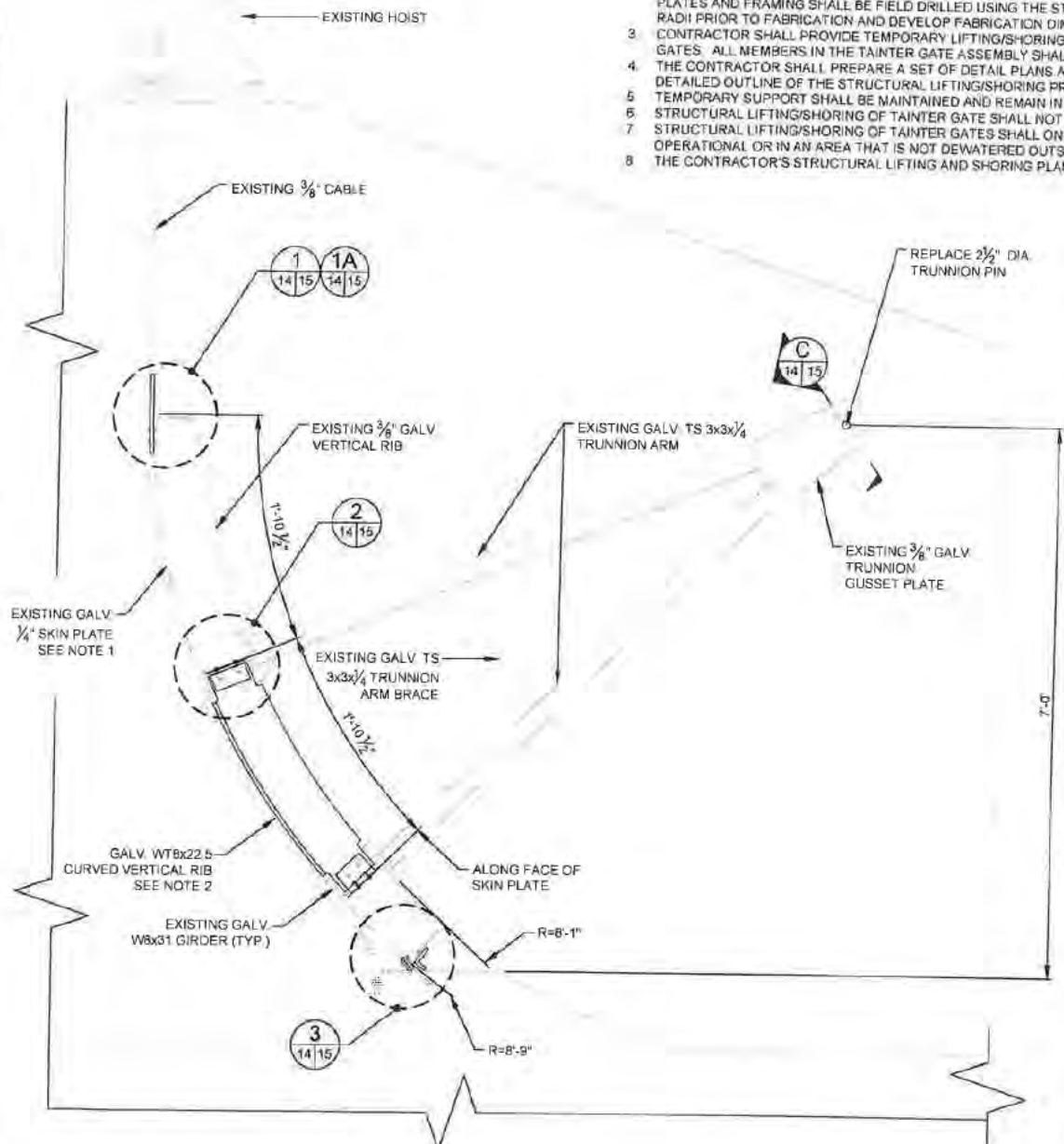
Title: Priest Lake Water Management Project Outlet Dam Improvements

OUTLET STRUCTURE SECTIONS AND WORK LIST

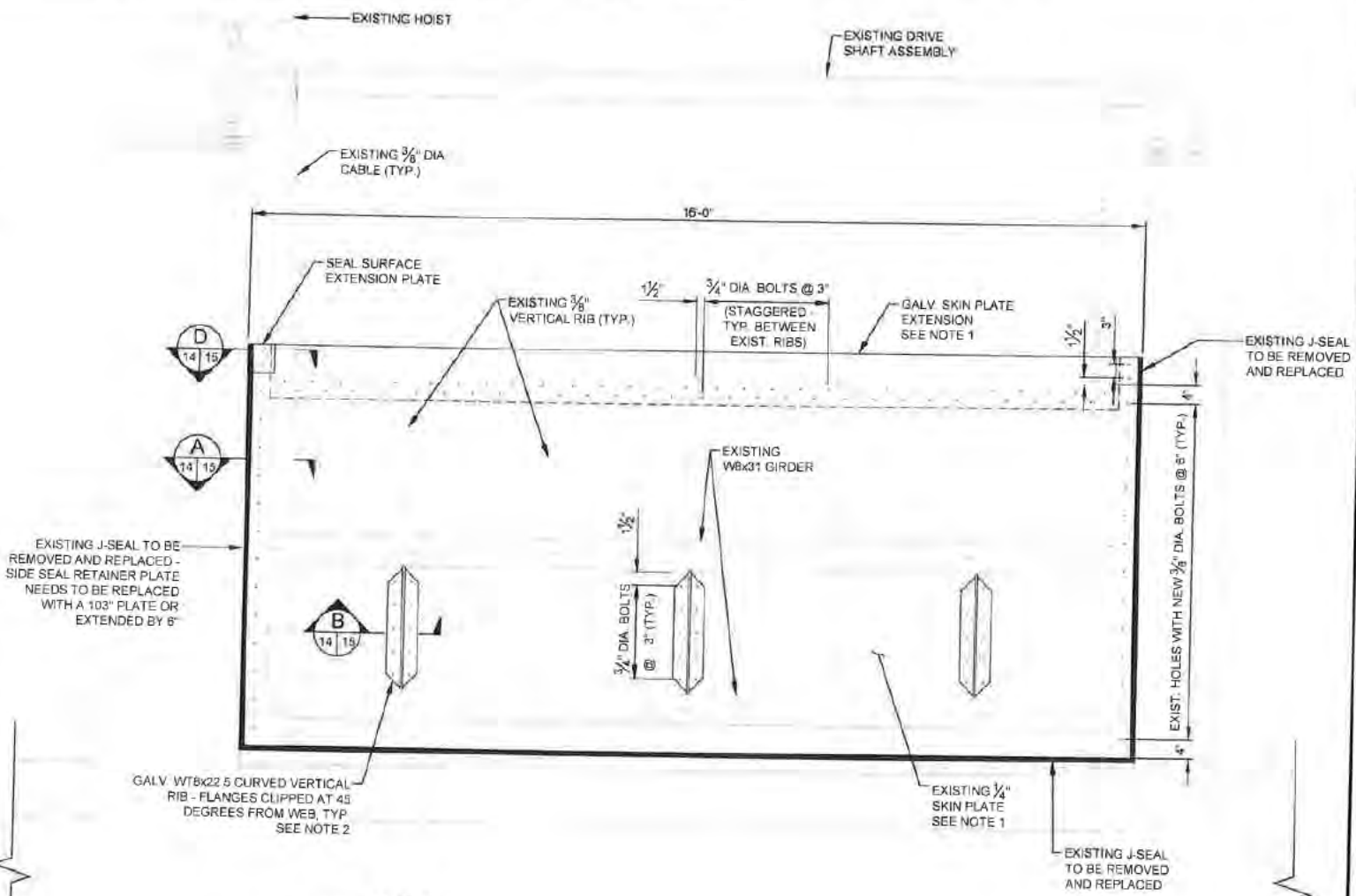
COPY

NOTES

- 1 TAINTER GATE EXTENSION PLATES SHALL BE CONTINUOUS OVER THE FULL WIDTH OF THE EXISTING GATES. THE EXTENSIONS SHALL BE ACCURATELY FITTED AND BOLT HOLES DRILLED IN THE SHOP FOR PROPER INSTALLATION. (FIELD DRILLING OF BOLT HOLES IN EXTENSION NOT ALLOWED.) BOLT HOLES IN EXISTING TAINTER GATE SKIN PLATES SHALL BE FIELD DRILLED USING THE EXTENSIONS AS A PREPARED TEMPLATE TO ENSURE PROPER FITTING OF PIECES. CONTRACTOR SHALL FIELD MEASURE THE EXISTING TAINTER GATE SKIN PLATE DIMENSIONS AND RADII PRIOR TO FABRICATION AND DEVELOP FABRICATION DIMENSIONS BASED ON THESE MEASUREMENTS AND ORIGINAL 1978 DRAWINGS IN ORDER TO PREPARE THE EXTENSION SHOP DRAWINGS.
- 2 TAINTER GATE STRENGTHENING COMPONENTS SHALL BE ACCURATELY FITTED AND BOLT HOLES DRILLED IN THE SHOP FOR PROPER INSTALLATION. (FIELD DRILLING OF BOLT HOLES IN STRENGTHENING COMPONENTS NOT ALLOWED.) BOLT HOLES IN EXISTING TAINTER GATE SKIN PLATES AND FRAMING SHALL BE FIELD DRILLED USING THE STRENGTHENING COMPONENTS AS A PREPARED TEMPLATE TO ENSURE PROPER FITTING OF PIECES. CONTRACTOR SHALL FIELD MEASURE THE EXISTING TAINTER GATE SKIN PLATE AND FRAMING DIMENSIONS INCLUDING RADII PRIOR TO FABRICATION AND DEVELOP FABRICATION DIMENSIONS BASED ON THESE MEASUREMENTS AND ORIGINAL 1978 DRAWINGS IN ORDER TO PREPARE THE EXTENSION SHOP DRAWINGS.
- 3 CONTRACTOR SHALL PROVIDE TEMPORARY LIFTING/SHORING TO SUPPORT TAINTER GATES DURING TRUNNION PIN REPLACEMENT. THE CONTRACTOR SHALL EMPLOY SUITABLE EQUIPMENT AND METHODS SO AS TO NOT DAMAGE OR OVERSTRESS ANY MEMBERS IN THE TAINTER GATES. ALL MEMBERS IN THE TAINTER GATE ASSEMBLY SHALL BE SAFELY BRACED AND FIRMLY HELD IN PLACE UNTIL THEY CAN BE RESUPPORTED ON THE NEW TRUNNION PINS.
- 4 THE CONTRACTOR SHALL PREPARE A SET OF DETAIL PLANS AND CALCULATIONS FOR THE STRUCTURAL LIFTING/SHORING OPERATIONS. THE PLANS AND CALCULATIONS SHALL BE STAMPED BY AN IDAHO STATE LICENSE PROFESSIONAL ENGINEER. THE PLANS SHALL INCLUDE A DETAILED OUTLINE OF THE STRUCTURAL LIFTING/SHORING PROCEDURE. THE STRUCTURAL LIFTING/SHORING OPERATIONS SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO LRFD BRIDGE SPECIFICATIONS.
- 5 TEMPORARY SUPPORT SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL BOTH TRUNNION PINS IN A GATE BEING LIFTED/SHORED HAVE BEEN REPLACED AND THE TAINTER GATE ASSEMBLY HAS BEEN RESUPPORTED IN ITS ORIGINAL CONDITION.
- 6 STRUCTURAL LIFTING/SHORING OF TAINTER GATES SHALL NOT BE UNDERTAKEN UNDER ANY SITUATION WHICH WOULD RESULT IN COMPROMISING ITS CAPACITY, STABILITY, OR ABILITY TO OPERATE OPERATIONAL OR IN AN AREA THAT IS NOT DEWATERED OUTSIDE THE COFFERDAMS.
- 7 STRUCTURAL LIFTING/SHORING OF TAINTER GATES SHALL ONLY OCCUR WHEN COFFERDAM IS IN PLACE AND IN AREA THAT IS DEWATERED. STRUCTURAL LIFTING/SHORING OF TAINTER GATES SHALL NOT BE UNDERTAKEN UNDER ANY CIRCUMSTANCE ON GATES THAT ARE STILL OPERATIONAL OR IN AN AREA THAT IS NOT DEWATERED OUTSIDE THE COFFERDAMS.
- 8 THE CONTRACTOR'S STRUCTURAL LIFTING AND SHORING PLAN SHALL INCLUDE ALL DETAILS AND DESIGN CHECKS REQUIRED TO ENSURE THE EXISTING SUBSTRUCTURE REMAINS STABLE.



SECTION C
SCALE: 1" = 1'-0"



ELEVATION D
TAINTER GATE
SCALE: 3/4" = 1'-0"

IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020

FOR BID

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Rev	Date	Drawn	Description	Clk'd	App'd
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0	5/20/20	TM	FOR BID	SK	SP

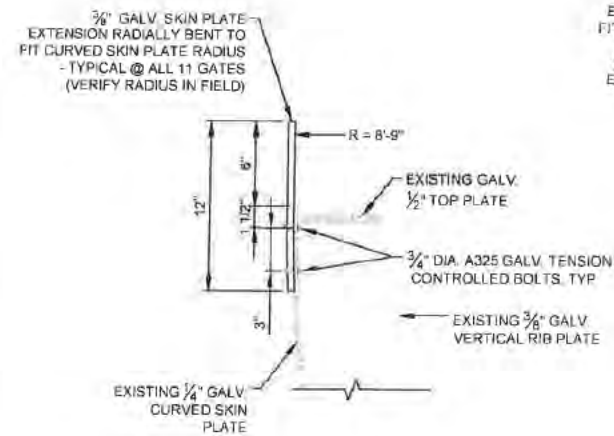
Project Number: 376997
B/C: 14
Total: 25

Designed	E. Wright	Eng. check	L. Grand
Drawn	E. Wright	Coordination	P. Kobialka
Dwg. check	T. Morrison	Approved	S. Phillips
Scale of ANSI D	As Noted	Status	Rev
Drawing Number	S-3		

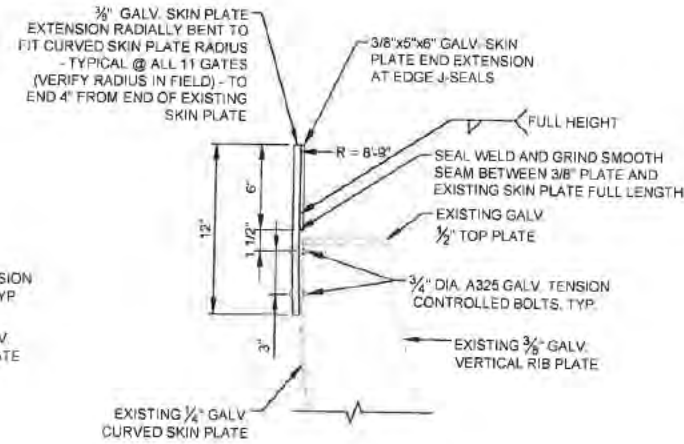
Priest Lake Water Management Project
Outlet Dam Improvements

TAINTER GATE ELEVATION AND SECTION

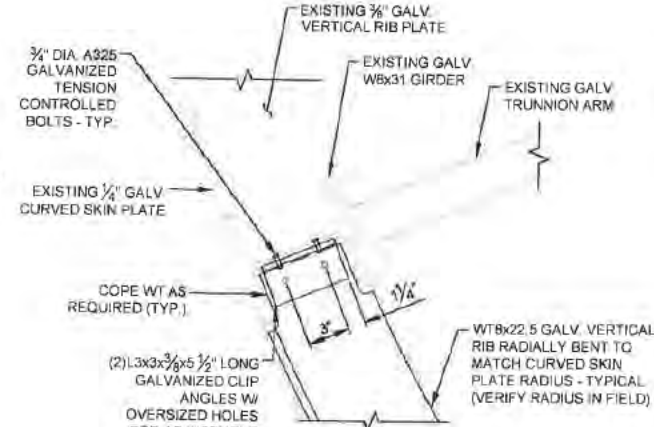
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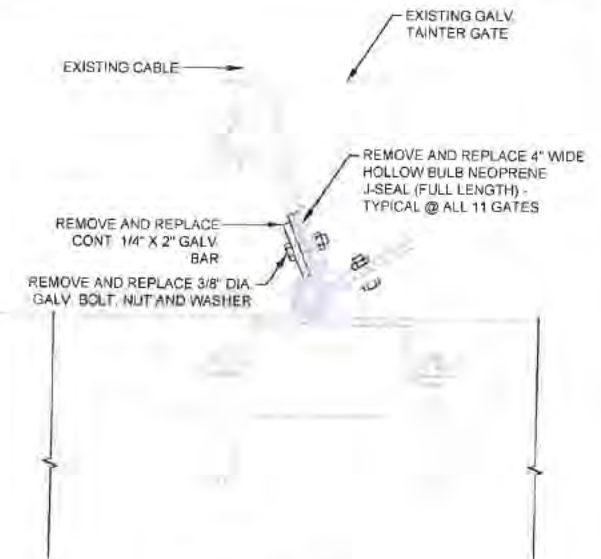
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14/15
DETAIL
SCALE: 1" = 6"



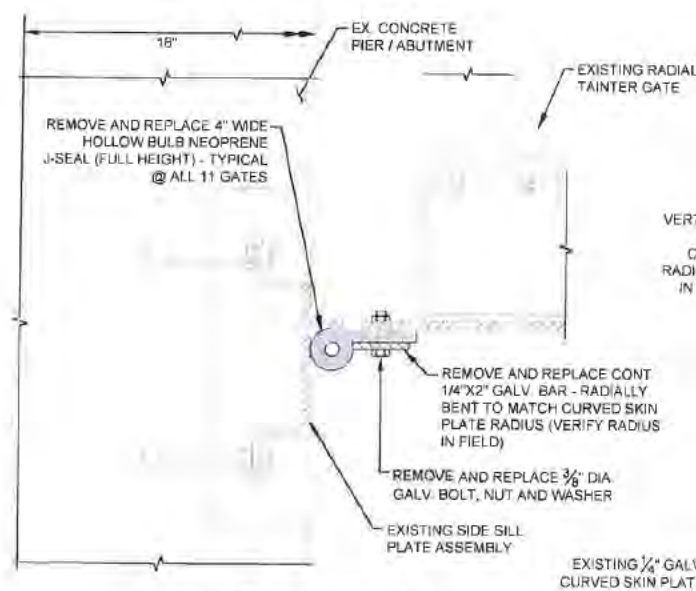
1A
14/15
DETAIL (AT JOINT SEALS)
SCALE: 1" = 6"



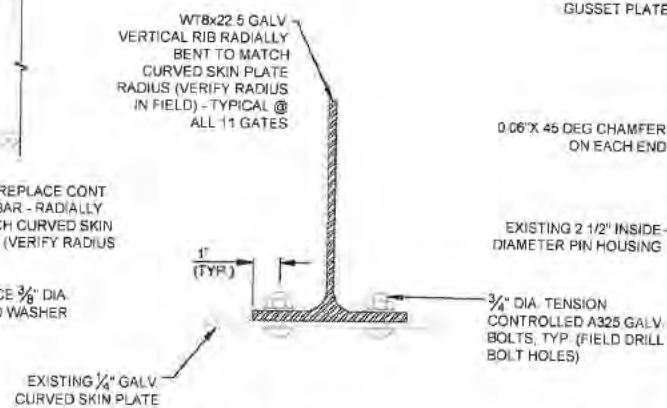
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14/15
DETAIL
SCALE: 1" = 6"



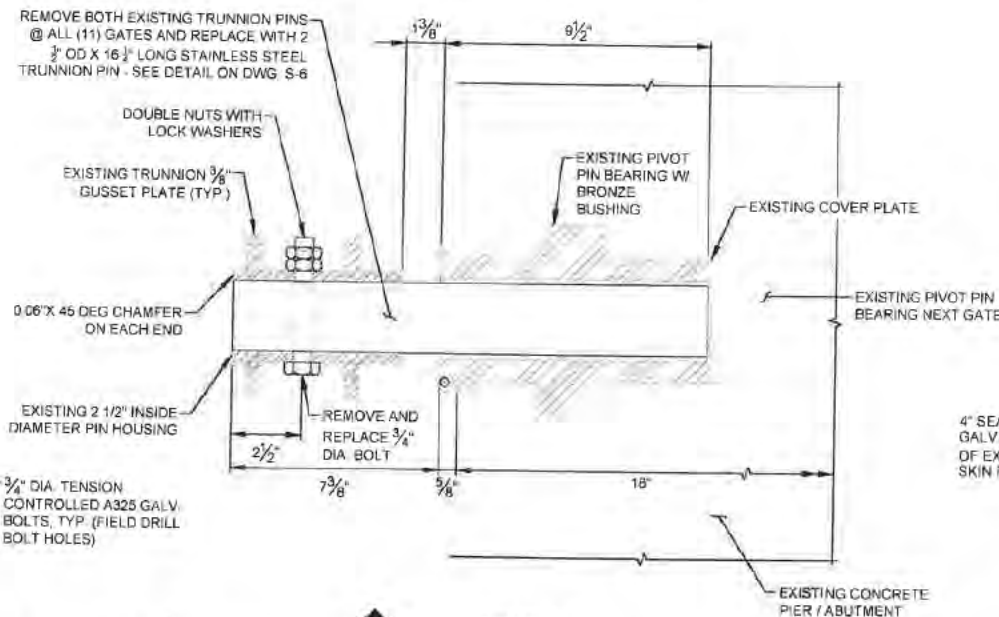
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14/15
DETAIL
SCALE: 1" = 3"



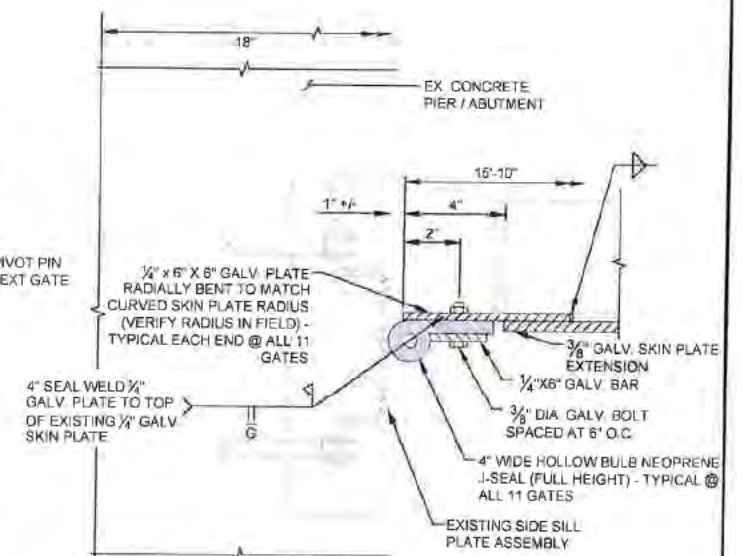
A
14/15
SECTION
SCALE: 1" = 3"



B
14/15
SECTION
SCALE: 1" = 3"



C
14/15
SECTION
TRUNNION PIN REPLACEMENT
SCALE: 1" = 3"



D
14/15
SECTION
SCALE IN INCHES

IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020

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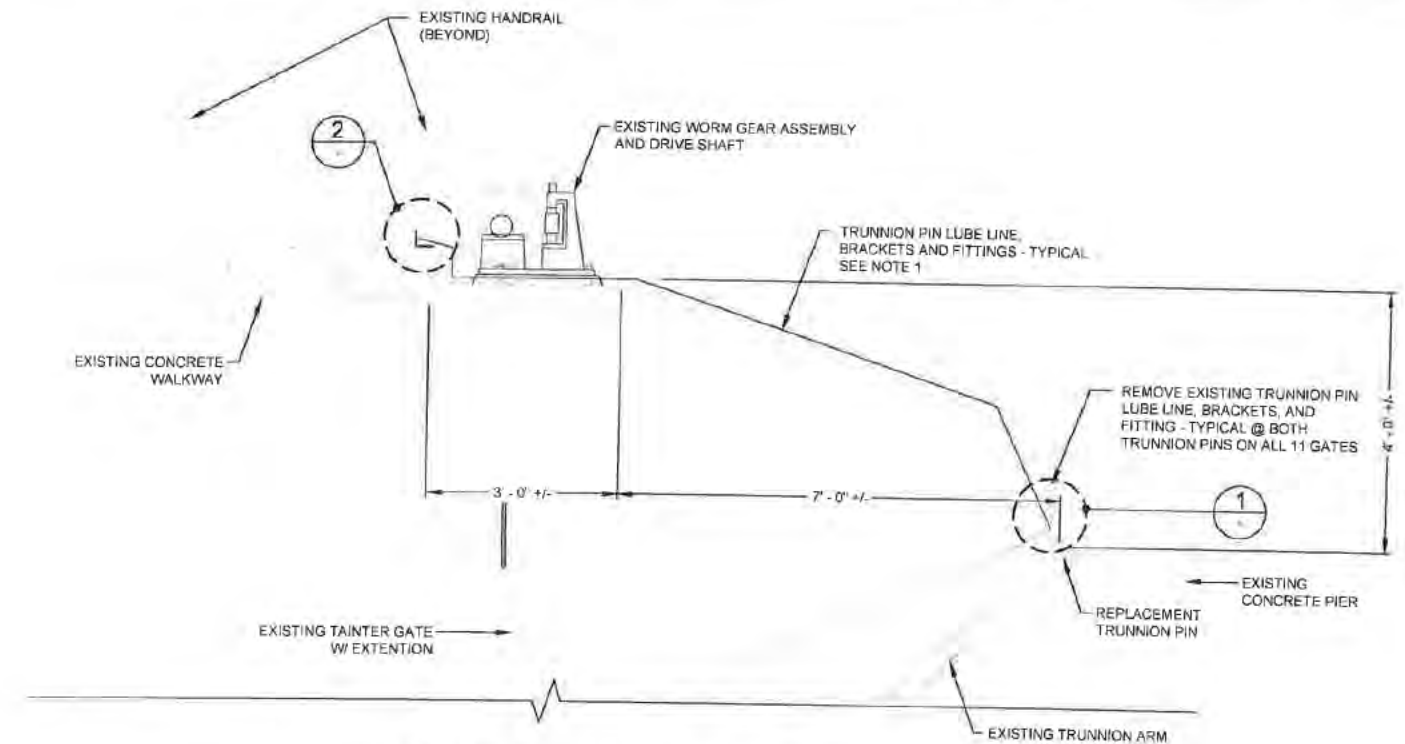
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1	8/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

Project Number	376997	BVD	15	Total	25
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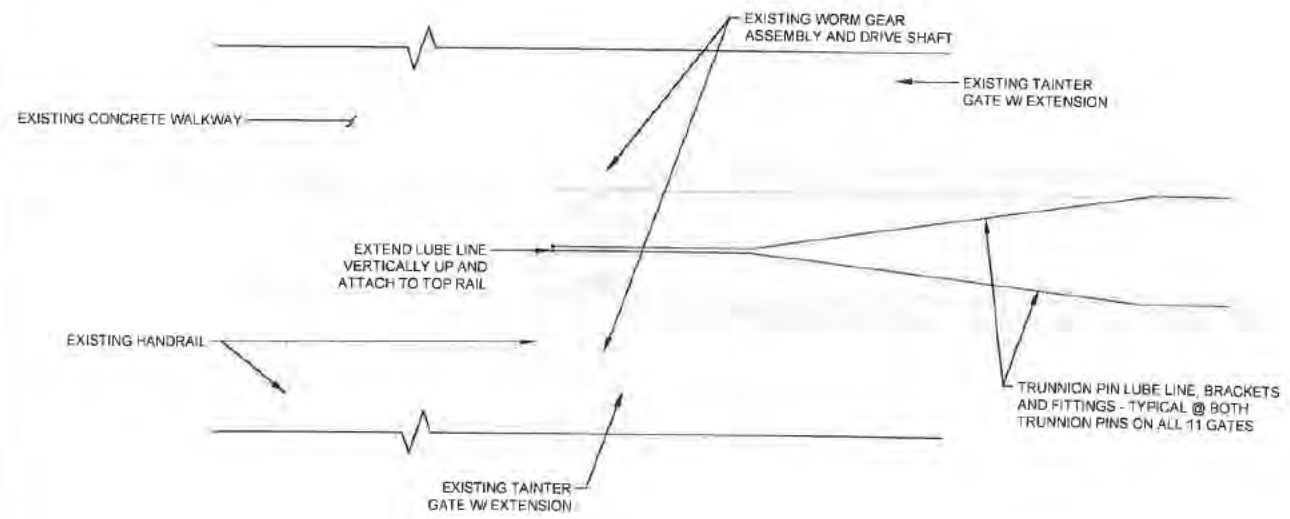
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Drawn	E. Wright	Coordination	P. Kobayaka
Dwg check	T. Morrison	Approved	S. Phillips
Scale at ANSI D	As Noted	Status	Rev
Drawing Number	S-4	Security	

Title
Priest Lake Water Management Project
Outlet Dam Improvements
TANTIER GATE DETAILS

COPY

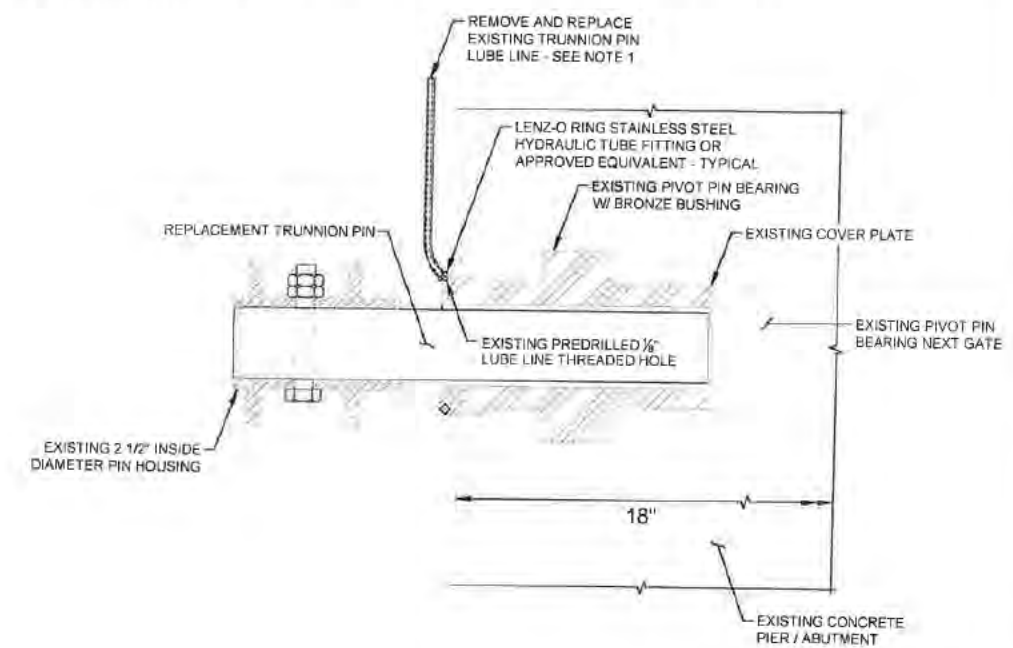


GREASE FITTING REPAIR DETAIL
NOT TO SCALE

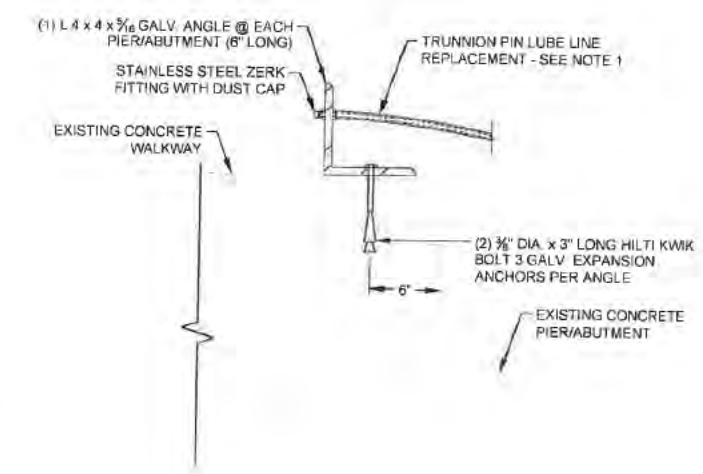


NOTES

1. REMOVE AND REPLACE EXISTING LUBE LINE AT BOTH TRUNNION PINS ON ALL 11 GATES WITH A 1/2" SAE J525 ANNEALED STEEL SEAMLESS TUBING LUBE LINE RATED FOR A MINIMUM 5000 PSI PRESSURE
2. CONTRACTOR SHALL SUPPLY OWNER WITH (2) LINCOLN 1682 20V POWERLUBER HANDHELD BATTERY OPERATED GREASE GUNS RATED FOR A MAXIMUM GREASE DELIVERY PRESSURE UP TO 10000PSI
3. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL LUBE LINES, FITTINGS, AND BRACKETS TO HOLD LUBE LINE IN PLACE ON CONCRETE PIER/ABUTMENT.



1 DETAIL
SCALE: 1" = 3"

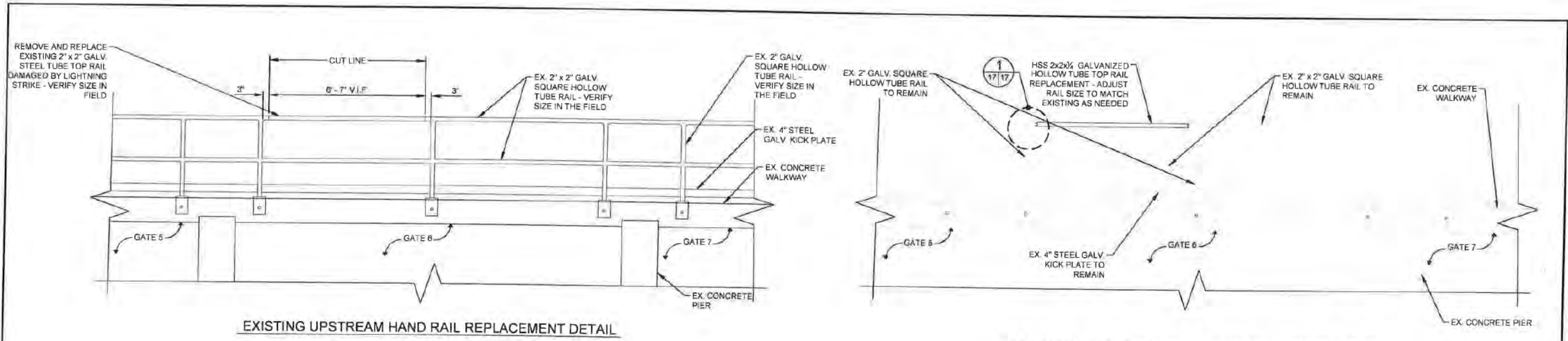


2 DETAIL
SCALE: 1" = 3"

IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020

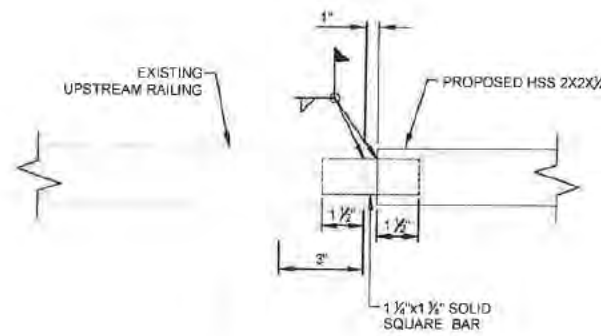
FOR BID

<p>1601 5th Avenue Suite 800 Seattle, Washington 98101</p> <p>T +1 (425) 778 8243 W mottmac.com</p>	<p>IDAHO DEPARTMENT OF WATER RESOURCES 327 Front Street Suite 848 P.O. Box 83720 Boise, Idaho 83702 P (208) 287-4800 F (208) 287-8700</p>	<table border="1"> <tr> <th>Rev</th> <th>Date</th> <th>Drawn</th> <th>Description</th> <th>Ch'kd</th> <th>App'd</th> </tr> <tr> <td>1</td> <td>6/25/20</td> <td>TM</td> <td>AMENDMENT 1</td> <td>SK</td> <td>SP</td> </tr> <tr> <td>0</td> <td>5/20/20</td> <td>TM</td> <td>FOR BID</td> <td>SK</td> <td>SP</td> </tr> </table>	Rev	Date	Drawn	Description	Ch'kd	App'd	1	6/25/20	TM	AMENDMENT 1	SK	SP	0	5/20/20	TM	FOR BID	SK	SP		<table border="1"> <tr> <td>Designed</td> <td>J. Dawson</td> <td>Eng check</td> <td>S. Phillipa</td> </tr> <tr> <td>Drawn</td> <td>T. Morleyan</td> <td>Coordination</td> <td></td> </tr> <tr> <td>Dwg check</td> <td></td> <td>Approved</td> <td></td> </tr> </table>	Designed	J. Dawson	Eng check	S. Phillipa	Drawn	T. Morleyan	Coordination		Dwg check		Approved		<table border="1"> <tr> <td>Scale as ANSI D</td> <td>Status</td> <td>Rev</td> <td>Security</td> </tr> <tr> <td>As Noted</td> <td></td> <td></td> <td></td> </tr> </table>	Scale as ANSI D	Status	Rev	Security	As Noted				<p>Title: Priest Lake Water Management Project Outlet Dam Improvements</p> <p>TRUNNION GREASE TUBE REPLACEMENT DETAILS</p>
			Rev	Date	Drawn	Description	Ch'kd	App'd																																				
1	6/25/20	TM	AMENDMENT 1	SK	SP																																							
0	5/20/20	TM	FOR BID	SK	SP																																							
Designed	J. Dawson	Eng check	S. Phillipa																																									
Drawn	T. Morleyan	Coordination																																										
Dwg check		Approved																																										
Scale as ANSI D	Status	Rev	Security																																									
As Noted																																												
<p>Project Number: 376997 BID: 16 Total: 25</p>		<p>Drawing Number: S-5</p>																																										

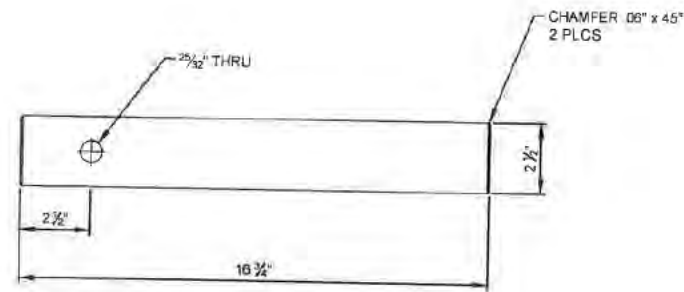


EXISTING UPSTREAM HAND RAIL REPLACEMENT DETAIL

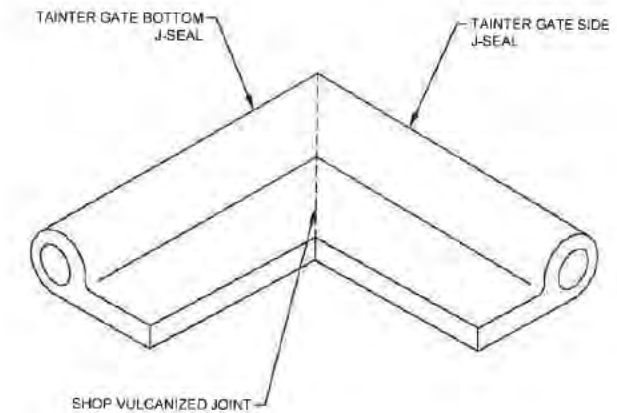
PROPOSED UPSTREAM HAND RAIL REPLACEMENT DETAIL



1
17 | 17
DETAIL
SCALE: 1" = 1/4"



TRUNNION PIN DETAIL



J-SEAL CORNER DETAIL

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Dam Safety Program
DATE: 8/3/2020

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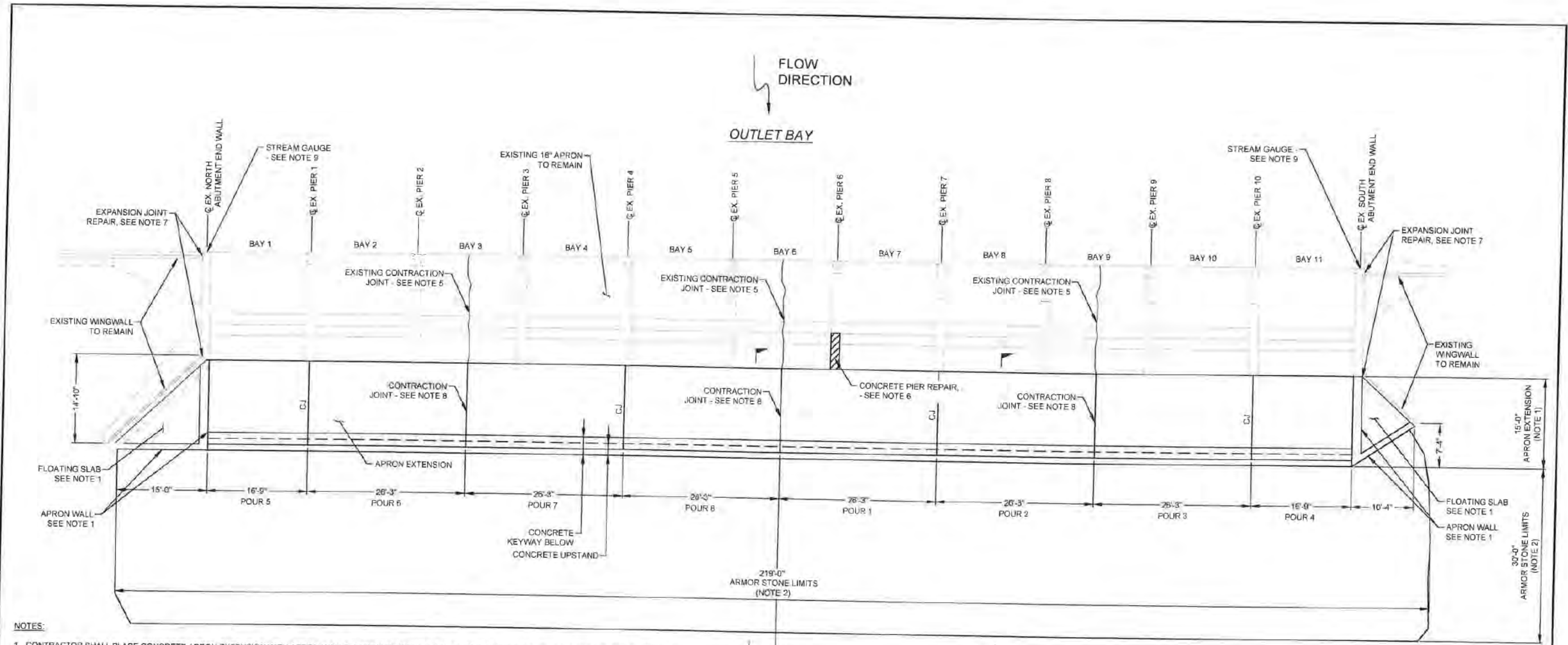
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Rev	Date	Drawn	Description	Chk'd	App'd
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0	5/20/20	TM	FOR BID	SK	SP

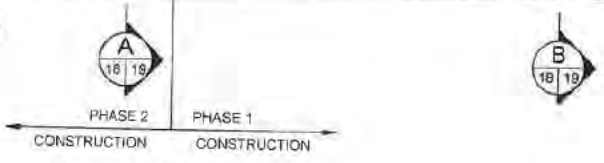
Project Number: **376997**
 B/D: **17**
 Total: **25**

Designed	J. Dawson	Eng check	S. Phillips
Drawn	T. Morrison	Coordination	
Dwg check		Approved	
Scale at ANSI D	As Noted	Status	Rev
Drawing Number	S-6		

Title: **Priest Lake Water Management Project Outlet Dam Improvements**
MISCELLANEOUS STEEL DETAILS



- NOTES:**
- CONTRACTOR SHALL PLACE CONCRETE APRON EXTENSION WITH APRON WALLS, UPSTAND, KEYWAY, AND FLOATING SLAB TO LIMITS IDENTIFIED. SEE DRAWINGS A-3 THRU A-5 FOR SECTIONS AND DETAILS.
 - CONTRACTOR SHALL PLACE ARMOR STONE DOWNSTREAM OF APRON EXTENSION EDGE TO LIMITS IDENTIFIED. SEE DRAWINGS A-2 FOR PLACEMENT DETAIL.
 - EXISTING ARMOR STONE WITHIN THE LIMITS OF THE APRON EXTENSION AND BEDDING STONE SHALL BE REMOVED, RELOCATED, AND RESET DOWNSTREAM AS DIRECTED BY THE OWNERS REPRESENTATIVE. WIDTH AND DEPTH OF ARMOR STONE TO BE REMOVED VARIES ALONG WIDTH OF EXISTING DAM. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REMOVAL AND DISPOSAL COSTS ASSOCIATED WITH ANY OF THIS WORK.
 - CONTRACTOR SHALL EXCAVATE, FLATTEN, AND PREPARE SUBGRADE BENEATH APRON EXTENSION AND ARMOR STONE LIMITS AS INDICATED ON DRAWING A-2.
 - CONTRACTOR SHALL SEAL EXISTING CONTRACTION JOINTS AT THE 3 IDENTIFIED LOCATIONS ON THE PLAN. SEE DRAWING M-1 FOR DETAIL.
 - CONTRACTOR SHALL REPAIR DETERIORATED AREA OF CONCRETE ON PIER 6 AS INDICATED ON DRAWING P-1.
 - CONTRACTOR SHALL REPAIR EXPANSION JOINT BETWEEN EXISTING ABUTMENTS AND WING WALLS AT ALL 4 LOCATIONS FOR THE FULL HEIGHT OF THE WALL. SEE DRAWING M-1 FOR DETAIL.
 - CONTRACTOR TO LOCATE CONTRACTION JOINTS IN APRON SLAB EXTENSION TO MATCH EXISTING CONTRACTION JOINT LOCATION. SEE DRAWING A-5 FOR DETAIL.
 - CONTRACTOR TO REMOVE AND REPLACE EXISTING STREAM GAUGE ON THE NORTH ABUTMENT AND INSTALL A NEW STREAM GAUGE ON THE SOUTH ABUTMENT. SEE DRAWING M-1 FOR DETAIL.
 - CONTRACTOR TO LOCATE CONSTRUCTION JOINTS IN APRON EXTENSION AS INDICATED ON PLAN WITH C.J. SEE DRAWING A-5 FOR DETAIL.



SUBSTRUCTURE PLAN
DAM STRUCTURE
SCALE IN FEET

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Dam Safety Program
DATE: 8/3/2020

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Rev	Date	Drawn	Description	Cr'd	App'd
1	8/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

PROFESSIONAL ENGINEER
LICENSED
16897
6/20/20

PROFESSIONAL ENGINEER
LICENSED
18040

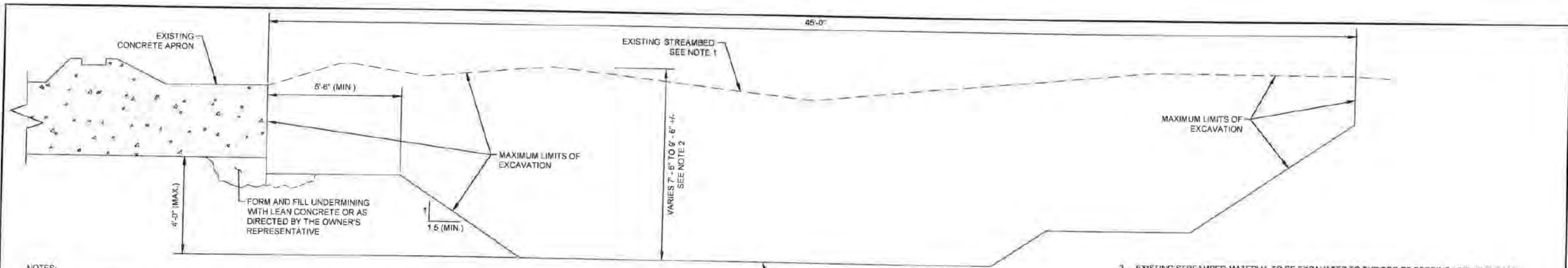
Project Number: 376997
BID: 18
Total: 25

Designed	J. Dawson	Eng check	S. Phillips
Drawn	T. Morrison	Coordination	
Dwg check		Approved	
Scale of ANSD	1" = 8'	Stamps	Rev
Drawing Number	A-1		

Priest Lake Water Management Project
Outlet Dam Improvements

SUBSTRUCTURE PLAN

COPY

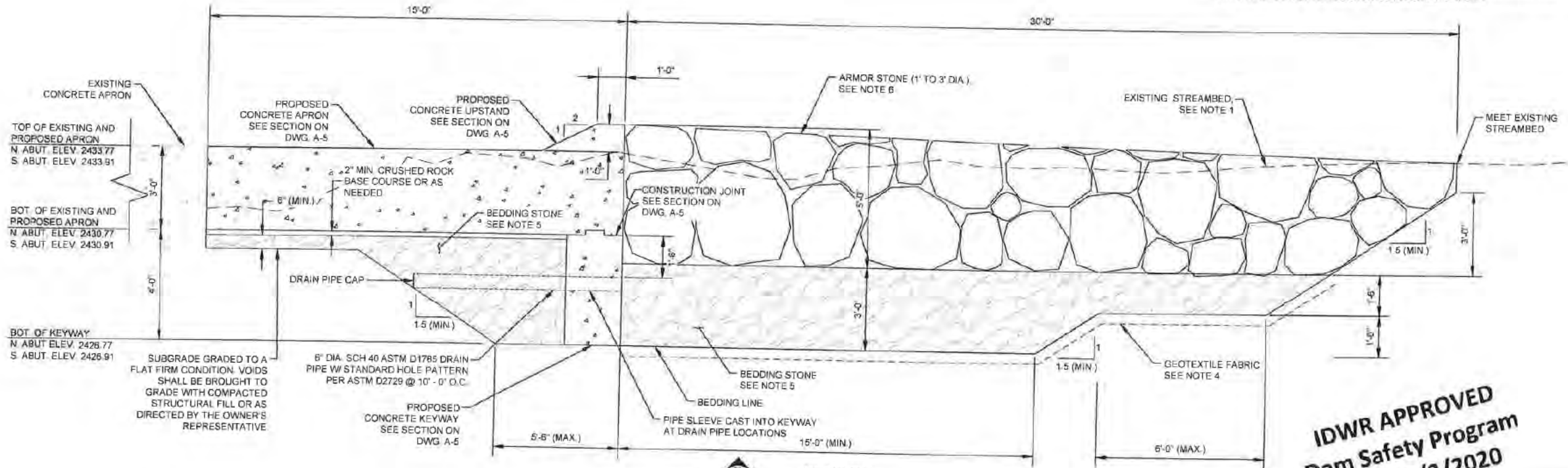


NOTES:

- EXISTING STREAMBED SHOWN IS NOT REPRESENTATIVE OF ACTUAL GRADE. IT IS EXAGGERATED TO ILLUSTRATE POTENTIAL FIELD CONDITIONS THAT COULD BE ENCOUNTERED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THESE CONDITIONS IN THE FIELD.
- EXISTING STREAMBED EXCAVATION DEPTH PROVIDED AS AN APPROXIMATE TO FACILITATE CONTRACTORS BID. SPOT ELEVATIONS OF EXISTING STREAMBED CAN BE FOUND ON DRAWINGS C-2 & C-3 TO PROVIDE THE CONTRACTOR A MORE COMPREHENSIVE DEPICTION OF EXISTING STREAMBED ELEVATION VARIATIONS. CONTRACTOR IS RESPONSIBLE FOR ESTIMATING QUANTITIES OF EXCAVATION AND FILL THAT MAY BE REQUIRED TO PERFORM THE SPECIFIED WORK IN THESE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COSTS ASSOCIATED WITH ADDITIONAL EXCAVATION OR FILL THAT MAY BE NEEDED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

- EXISTING STREAMBED MATERIAL TO BE EXCAVATED TO THE TOP OF BEDDING LINE. IF EXCESS MATERIAL MEETS THE REQUIREMENTS OF ARMOR STONE OR STREAMBED FILL MATERIAL, CONTRACTOR SHALL RELOCATE AND RESET MATERIAL TO FILL DEEPER VOIDS BELOW THE TOP OF BEDDING LINE OR SCOUR HOLES AS DIRECTED BY OWNER'S REPRESENTATIVE. SUITABILITY OF MATERIAL RE-USE SHALL BE DETERMINED BY OWNER'S REPRESENTATIVE. IF OWNER'S REPRESENTATIVE DETERMINES MATERIAL IS UNSUITABLE FOR RE-USE, CONTRACTOR SHALL DISPOSE OF MATERIAL AT NO ADDITIONAL COST TO THE OWNER.
- INSTALL CLASS C NONWOVEN GEOSYNTHETIC FABRIC WITH MODERATE SURVIVABILITY BETWEEN NATIVE SUBGRADE AND BEDDING STONE FOR UNDERGROUND DRAINAGE/FILTRATION PER SPECIFICATION SECTION 353123 ARMOR STONE.
- PLACE BEDDING STONE DIRECTLY BENEATH APRON EXTENSION AND ARMOR ROCK TO LIMITS IDENTIFIED ON PLAN AND IN SECTION. AGGREGATES USED SHALL BE FREE OF ADHERENT COATINGS AND DELETERIOUS MATERIALS SUCH AS ORGANICS OR CONSTRUCTION MATERIALS. BEDDING STONE MATERIAL AND GRADATION SHALL MEET THE REQUIREMENTS LISTED IN SPECIFICATION SECTION 353123 ARMOR STONE.
- PLACE ARMOR STONE ON BEDDING STONE TO TOP OF PROPOSED CONCRETE UPSTAND FOR LIMITS IDENTIFIED. ARMOR STONE MATERIAL AND GRADATION SHALL MEET THE REQUIREMENTS LISTED IN SPECIFICATION SECTION 353123 ARMOR STONE.

A SECTION
EXCAVATION
SCALE: 1/2" = 1'-0"



B SECTION
PROPOSED APRON EXTENSION
SCALE: 1/2" = 1'-0"

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DATE: 8/3/2020

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1	6/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

PROFESSIONAL ENGINEER
LICENSED
18887
STATE OF IDAHO
BRAD PHILLIPS
6/26/20

PROFESSIONAL ENGINEER
LICENSED
48040
STATE OF IDAHO
TERRILLAN SCHEPHERD
6/26/20

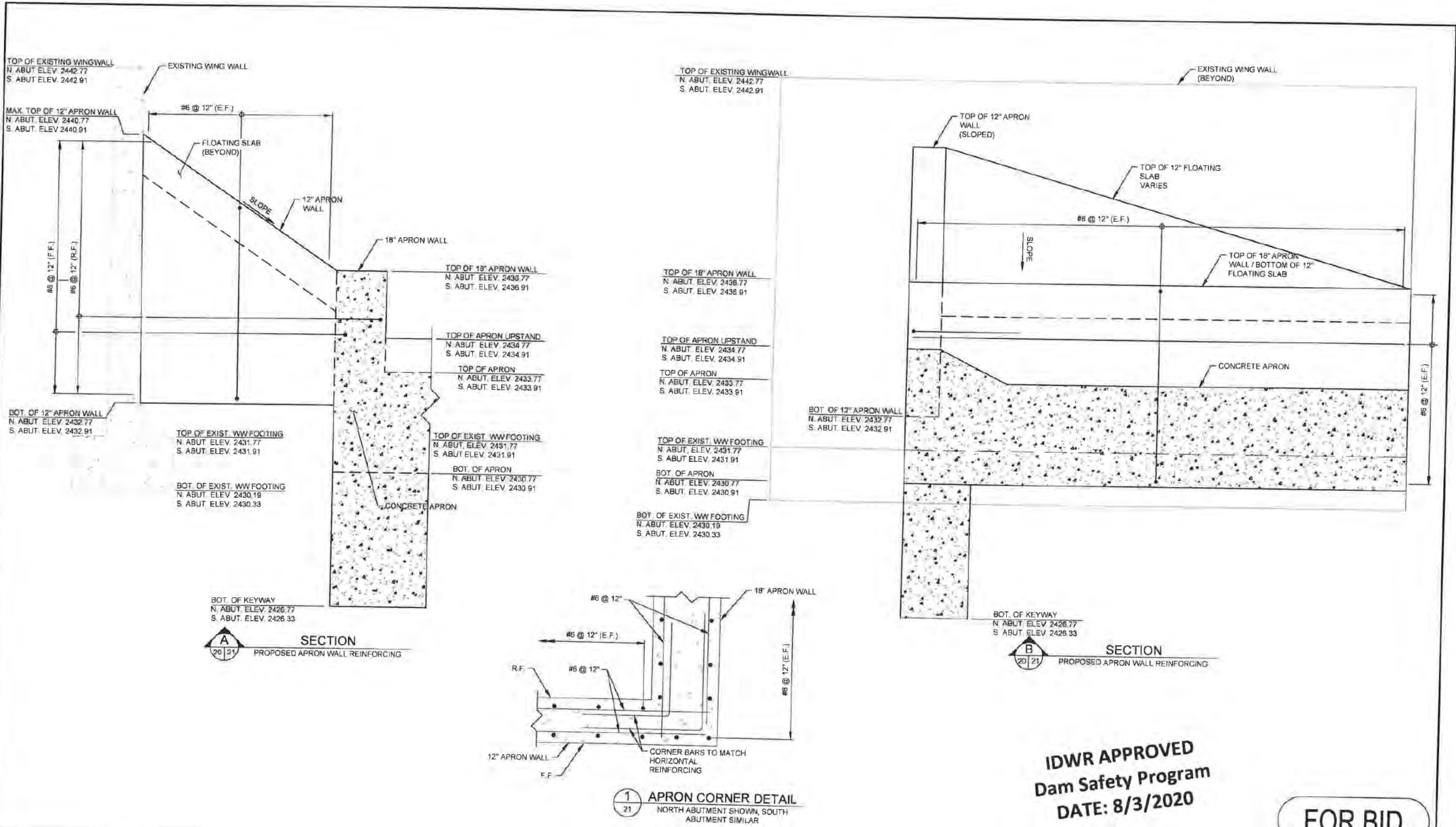
Designed	E. Whight	Eng. check	L. Orino
Drawn	E. Whight	Coordination	P. Kobalika
Design check	T. Morrison	Approved	S. Phillips
Scale of ANSI D	1/2" = 1'	Status	Rev
Drawing Number	A-2		

Title: Priest Lake Water Management Project Outlet Dam Improvements

APRON EXTENSION SECTIONS

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DATE: 8/3/2020

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0	5/20/20	TM	FOR BID	SK	SP

PROFESSIONAL ENGINEER
 LICENSED
 16847
 STATE OF IDAHO
 6/16/20

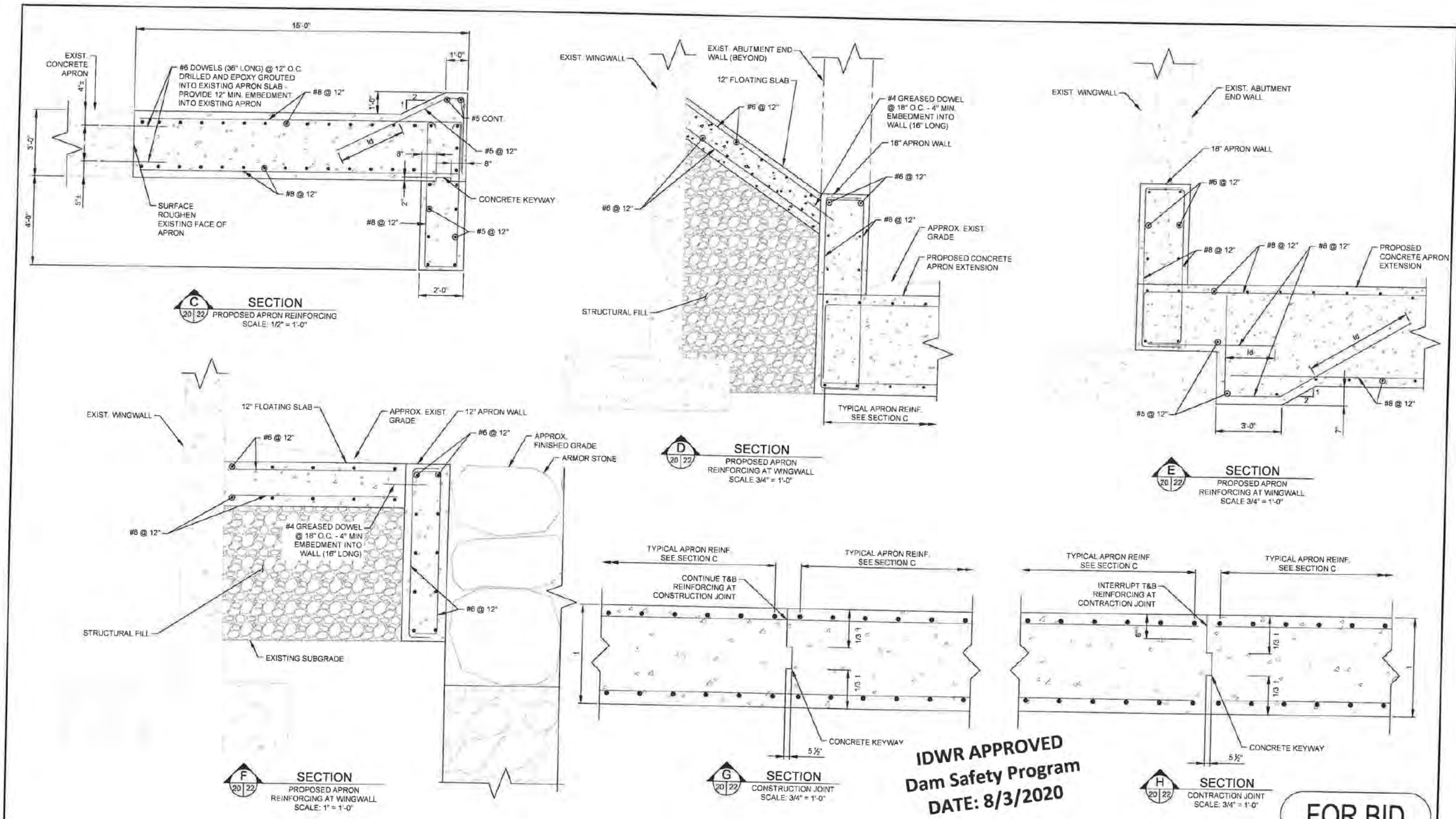
PROFESSIONAL ENGINEER
 LICENSED
 48040
 STATE OF IDAHO
 6/16/20

Project Number: 376997
 EFG: 21
 Total: 25

Designed	E. Wright	Eng check	L. Grene
Drawn	E. Wright	Coordination	P. Kobelka
Dwg check	T. Morrison	Approved	S. Phillips
Scale: as ANS/D	Status	Rev	Security
As Noted			
Drawing Number	A-4		

Title: Priest Lake Water Management Project Outlet Dam Improvements
 APRON WALL ELEVATIONS

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Rev	Date	Drawn	Description	Ch'kd	App'd
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0	5/20/20	TM	FOR BID	SK	SP

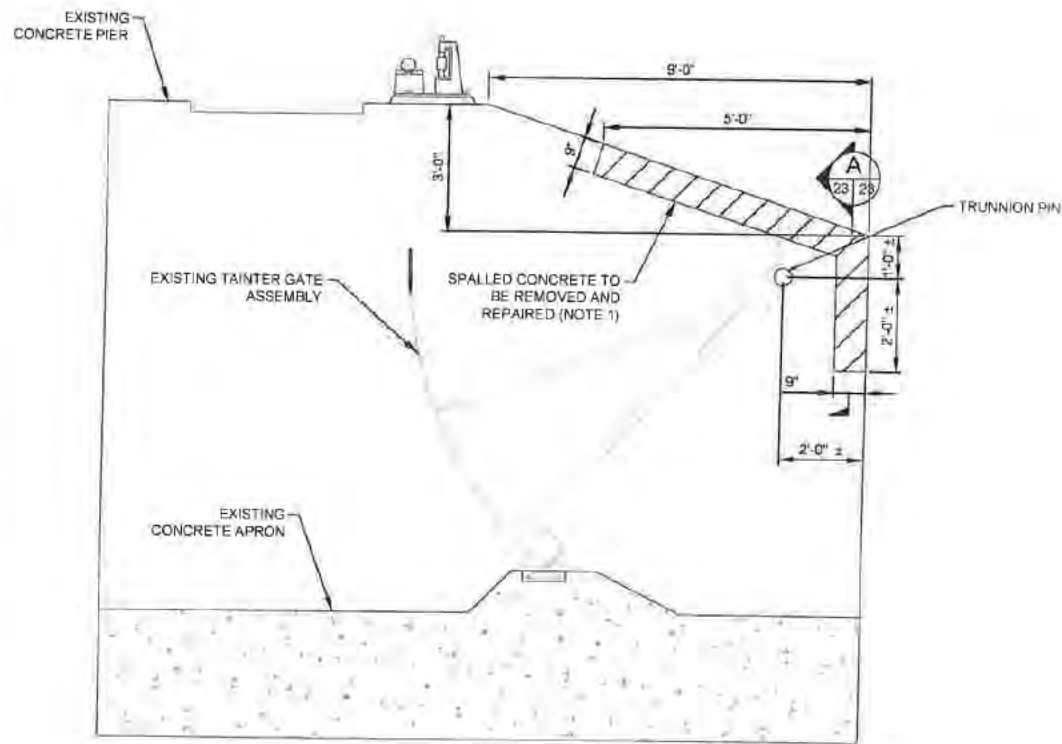
Professional Engineer


 Project Number: 376997
 BID: 22
 Total: 25

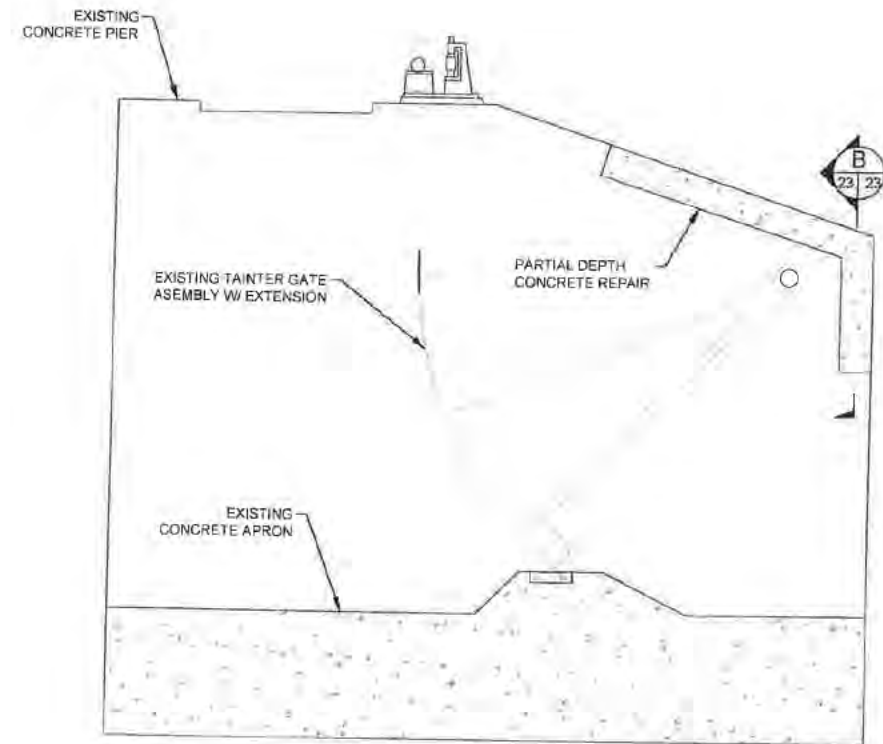
Designed	E. Wright	Eng check	L. Greco
Drawn	E. Wright	Coordination	P. Kobalika
Dwg check	T. Morrison	Approved	S. Phillips
Scale as ANSIC	Status	Rev	Security
As Noted			
Drawing Number	A-5		

Title
 Priest Lake Water
 Management Project
 Outlet Dam Improvements
 APRON REINFORCING SECTIONS

See drawing for notes, updates and details. Project: Priest Lake Dam - Apron Reinforcing Sections dwg. Job No. 20-11-254W. Modified: 1/20

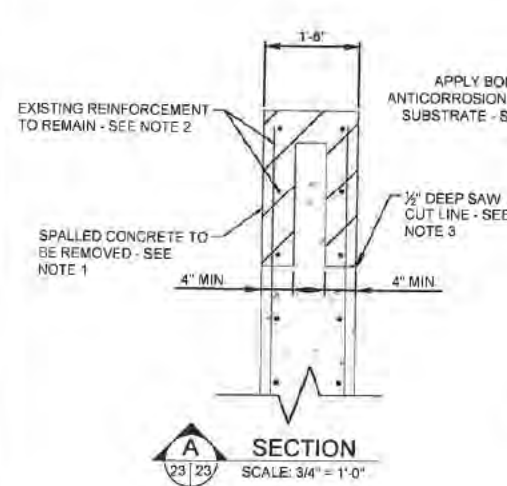


EXISTING ELEVATION - PIER 6
SCALE: 1/2" = 1'-0"

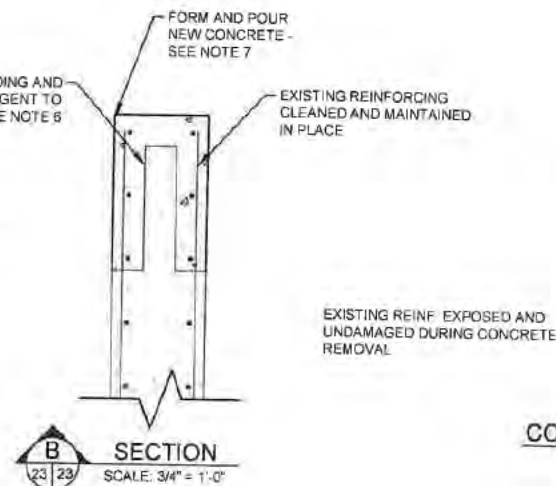


PROPOSED ELEVATION - PIER 6
SCALE: 1/2" = 1'-0"

IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020

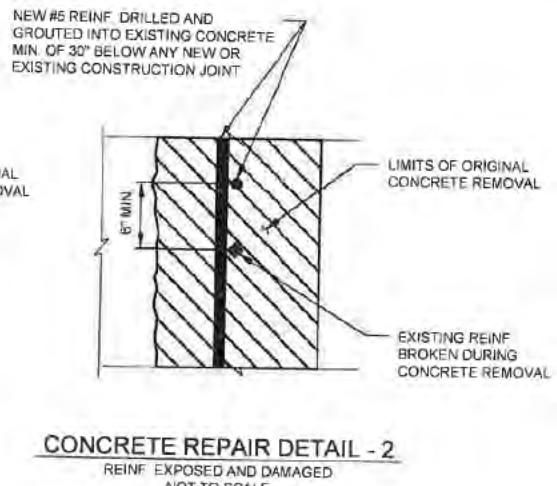


SECTION A
SCALE: 3/4" = 1'-0"



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

CONCRETE REPAIR DETAIL - 1
REIN. EXPOSED, NO DAMAGE
NOT TO SCALE



CONCRETE REPAIR DETAIL - 2
REIN. EXPOSED AND DAMAGED
NOT TO SCALE

NOTES

1. REMOVAL OF STRUCTURAL CONCRETE SHALL BE A MINIMUM OF 4" OR TO SOUND CONCRETE, IF POOR CONDITION CONCRETE EXTENDS BEYOND THE 6" REMOVAL LIMIT. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE BEFORE REMOVING ADDITIONAL CONCRETE TO REACH SOUND CONCRETE.
2. CONTRACTOR TO MAINTAIN AND PROTECT EXISTING REINFORCEMENT.
3. SAW CUT HORIZONTALLY THE EXISTING WALL AS DIMENSIONED ON THE EXISTING ELEVATION THIS SHEET. SAW CUT LINE SHALL BE CUT LEVEL AND PARALLEL WITH EXISTING PIER PROFILE.
4. REMOVE THE LOOSE AND UNSOUND CONCRETE ON THE PIER FACE WITHIN THE LIMITS IDENTIFIED IN ELEVATION.
5. MECHANICALLY PREPARE CONCRETE SURFACE TO ENSURE BONDING OF REPAIR MATERIAL.
6. PREPARE AND APPLY BONDING AGENT TO ROUGHENED CONCRETE SURFACE WITHIN LIMITS OF PARTIAL DEPTH REPAIR IDENTIFIED ON WALL ELEVATIONS IN ACCORDANCE WITH THE BONDING AGENT'S MANUFACTURER RECOMMENDED SPECIFICATIONS.
7. FORM AND POUR REPAIR CONCRETE WITHIN THE LIMITS OF THE PARTIAL DEPTH REPAIR IDENTIFIED IN ELEVATION.

FOR BID

M M
MOTT MACDONALD

1601 5th Avenue
Suite 800
Seattle, Washington 98101

T +1 (425) 778 6243
W mottmac.com

IDAHO
DEPARTMENT OF WATER RESOURCES

322 Front Street Suite 949
P.O. Box 93720
Boise, Idaho 83720
P (208) 287-4800
F (208) 287-6700

Rev	Date	Drawn	Description	Ch'gd	App'd
1	6/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

Project Number: **376997**

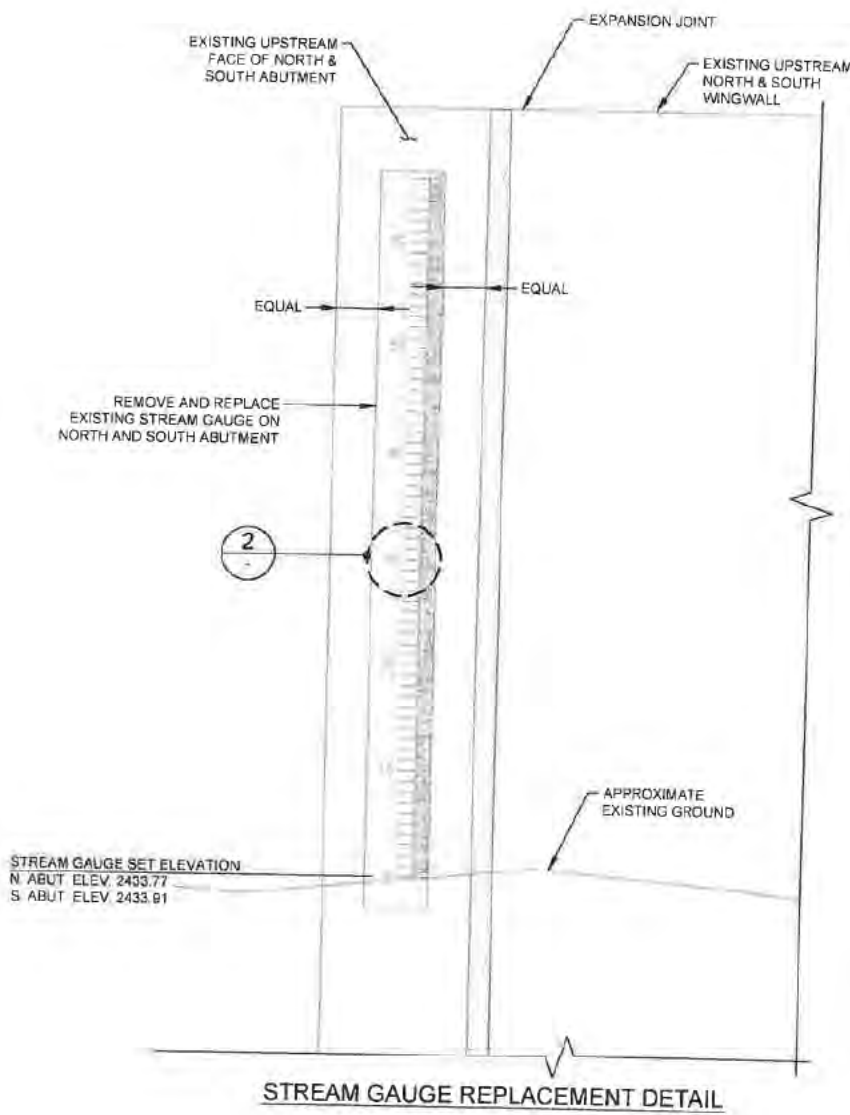
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Drawing Number: **P-1**

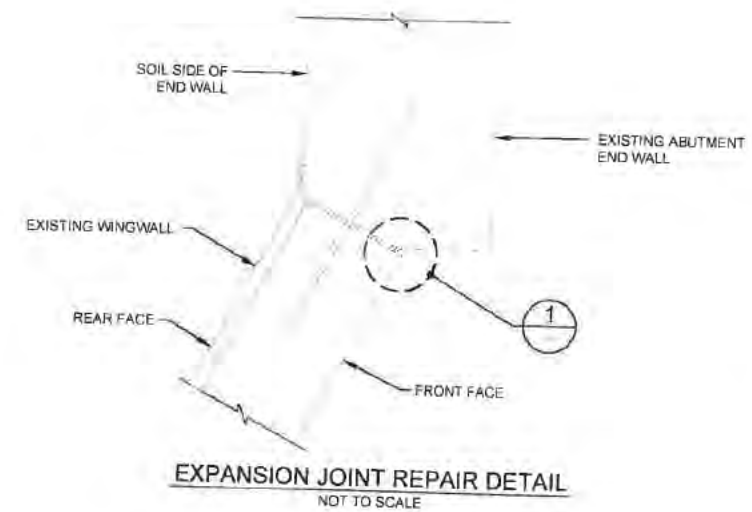
Designed	E. Wright	Eng check	L. Greno
Drawn	E. Wright	Coordination	P. Kobziarka
Div check	T. Morrison	Approved	S. Phalico
Scale as ANSIS D	Status	Rev	Security
As Noted			

Title: **Priest Lake Water Management Project Outlet Dam Improvements**

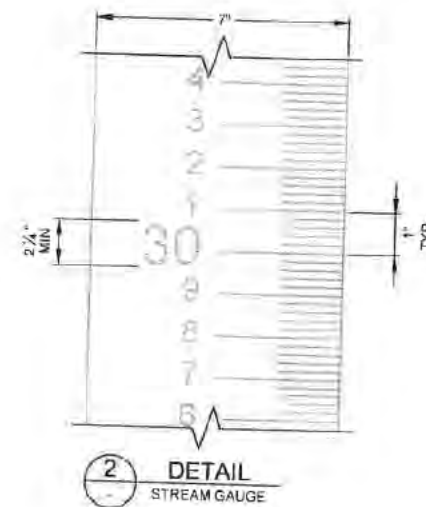
PIER 6 REPAIR DETAILS



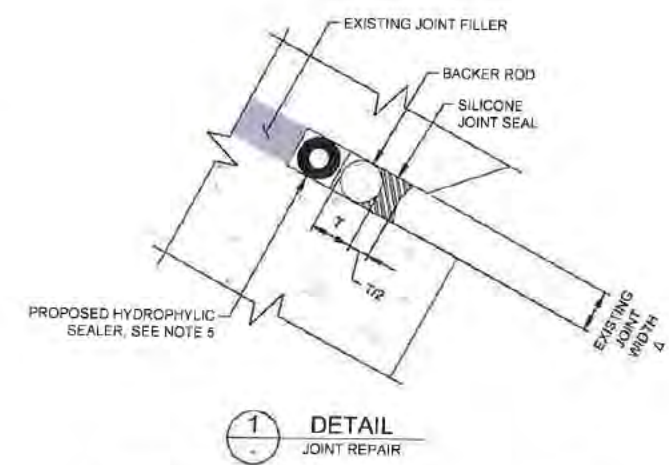
STREAM GAUGE REPLACEMENT DETAIL



EXPANSION JOINT REPAIR DETAIL
NOT TO SCALE



2 DETAIL
STREAM GAUGE



1 DETAIL
JOINT REPAIR

EXPANSION JOINT REPAIR PROCEDURE

- 1 REMOVE EXISTING JOINT SEAL OR MASTIC TO A MINIMUM DEPTH OF 2"
- 2 INSTALL BACKER ROD AND JOINT SEAL AS PER MANUFACTURERS RECOMMENDATIONS
- 3 EXTEND SEAL FROM THE BOTTOM OF THE FRONT FACE, OVER TOP OF THE WALL AND SIX INCHES DOWN THE REAR FACE OF THE WALL
- 4 PERFORM SEALING ON BOTH THE DOWNSTREAM WINGWALL EXPANSION JOINT (SHOWN) AND THE UPSTREAM WINGWALL EXPANSION JOINT (NOT SHOWN)
- 5 INSTALL PROPOSED HYDROPHYLIC SEALER. USE SIKA HYDROTITE OR APPROVED EQUAL AS PER MANUFACTURERS RECOMMENDATIONS

STREAM GAUGE NOTES

- 1 STREAM GAUGE SHALL BE CONSTRUCTED OF A DURABLE FIBERGLASS COMPOSITE TO ENSURE IT WILL NOT BE DAMAGED DUE TO IMPACT, ROT, OR RUST
- 2 CONTRACTOR SHALL ATTACH GAUGE TO UPSTREAM FACE WITH STAINLESS STEEL ANCHORS
- 3 STREAM GAUGE SHALL BE COATED WITH A NON-GLARE COATING

IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020

FOR BID

M M
MOTT
MACDONALD
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T: +1 (425) 778 6243
W: mottmac.com

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F: (208) 287-6709

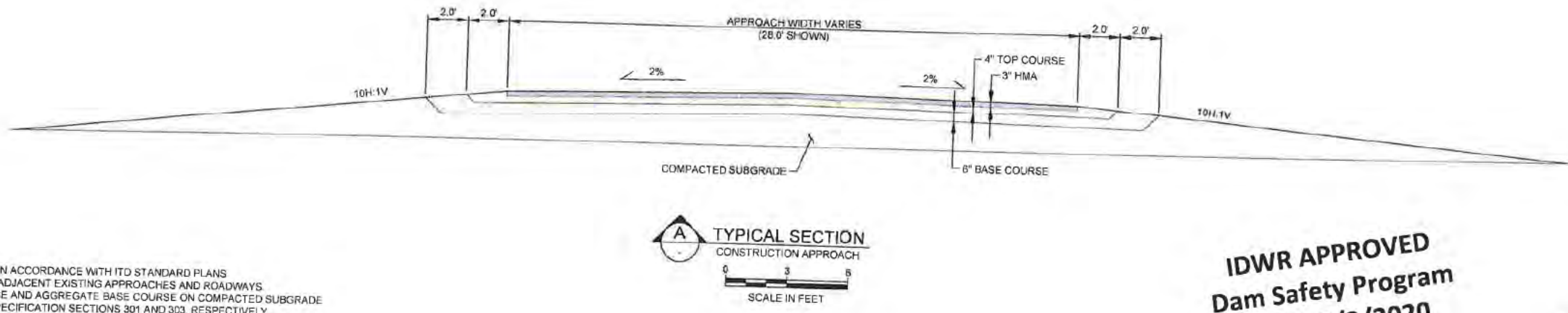
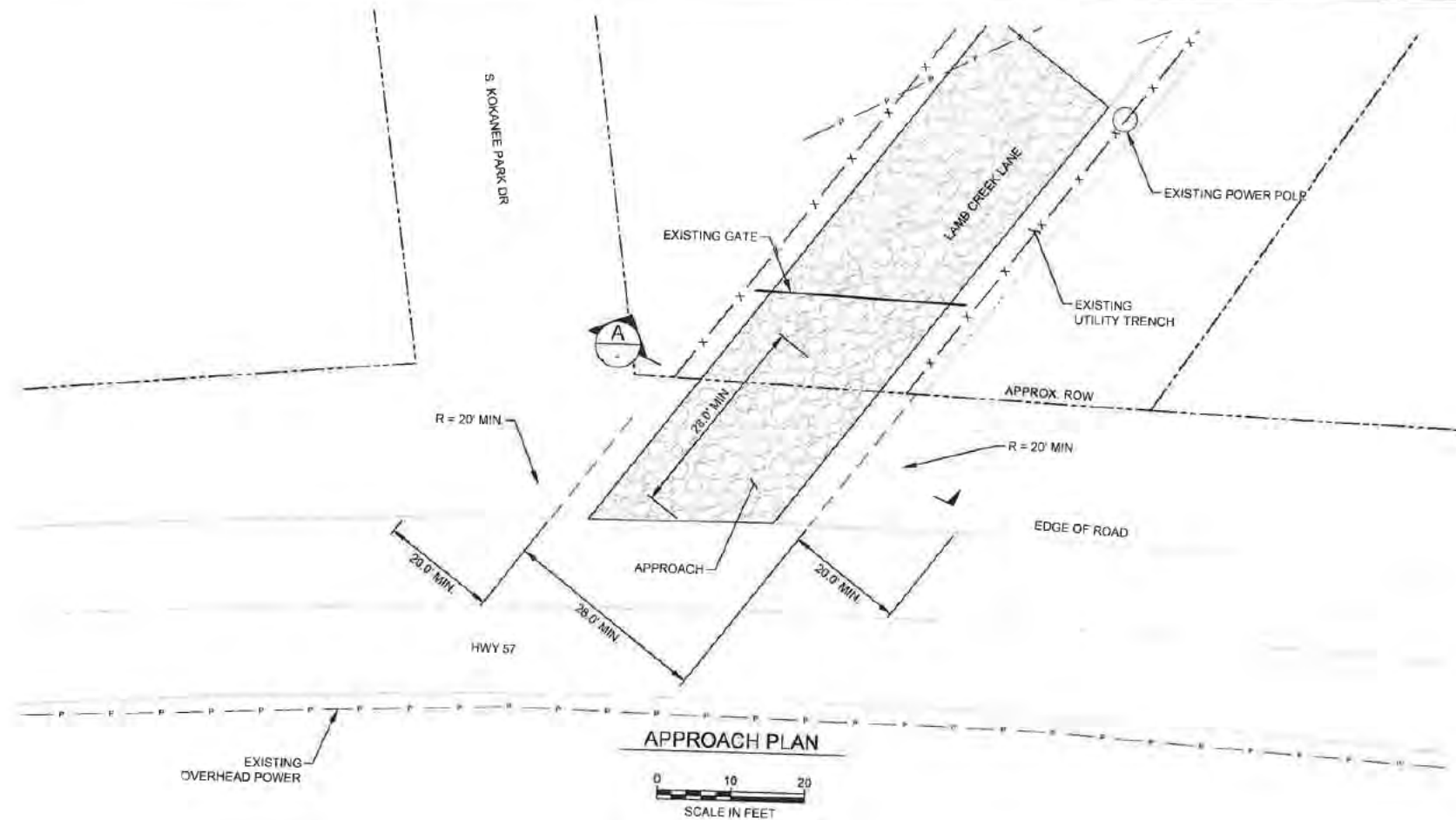
Rev	Date	Drawn	Description	Chkd	App'd
1	6/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

PROFESSIONAL ENGINEER
LICENSED
STATE OF IDAHO
6/26/20
6/26/20

Designed	J. Dawson	Eng check	S. Phillips
Drawn	T. Morrison	Coordination	
Dwg check		Approved	
Scale as ANS/D	Status	Rev	Security
As Noted			
Drawing Number	M-1		

Title
Priest Lake Water
Management Project
Outlet Dam Improvements
MISCELLANEOUS DETAILS 1

© Vectorworks International, Appleton WI 53009-1000 (920) 741-1000 - From: User: D:\m\misc\Miscellaneous Details.dwg, Jun 26, 2020, 11:25AM, Version: 1.0



NOTES

1. CONSTRUCTION APPROACH IN ACCORDANCE WITH ITD STANDARD PLANS
2. COORDINATE GRADES WITH ADJACENT EXISTING APPROACHES AND ROADWAYS
3. PROVIDE GRANULAR SUBBASE AND AGGREGATE BASE COURSE ON COMPACTED SUBGRADE IN ACCORDANCE WITH ITD SPECIFICATION SECTIONS 301 AND 303, RESPECTIVELY
4. PROVIDE HMA ROAD MIX PAVEMENT IN ACCORDANCE WITH ITD SPECIFICATION SECTION 406

IDWR APPROVED
Dam Safety Program
DATE: 8/3/2020

FOR BID

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 W mottmac.com

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 Boise, Idaho 83702
 P (208) 287-4800
 F (208) 287-6700

Rev	Date	Drawn	Description	Ch'kd	App'd
1	6/25/20	TM	AMENDMENT 1	SK	SP
0	5/20/20	TM	FOR BID	SK	SP

PROFESSIONAL ENGINEER
 LICENSED

 S. PHILLIPS
 6/28/20
 Project Number: 376997
 B/O: 25
 Total: 25

Designed	J. Dawson	Eng check	S. Phillips
Drawn	T. Morrison	Coordination	
Dwg check		Approved	
Scale as NOTED	Status	Rev	Security
As Noted			
Drawing Number	M-2		

TM
 Priest Lake Water
 Management Project
 Outlet Dam Improvements
 MISCELLANEOUS DETAILS 2

EXHIBIT B

From: [Skoro, Emily](#)
To: [Clark, Cynthia Bridge](#); [Jones, Doug](#); [Richman, Michelle](#); [Miller, Neeley](#); [Morrison, Mike](#)
Subject: FW: 20PO Phase 2 Cell Diversion and Dewatering
Date: Friday, December 3, 2021 4:27:00 PM

Please read ASAP and let me know your thoughts. We may need to send a stop work order.

From: Jim Gebhardt <jimg@striderconstruction.com>
Sent: Friday, December 3, 2021 4:30 PM
To: John Dawson <John.Dawson@mottmac.com>; Skoro, Emily <Emily.Skoro@idwr.idaho.gov>; Morrison, Mike <Mike.Morrison@idwr.idaho.gov>
Cc: Tim Yedinak <TimY@striderconstruction.com>; Mark (Mark@ramgeoservices.com) <Mark@ramgeoservices.com>; Kyle Gebhardt <kyleg@striderconstruction.com>
Subject: 20PO Phase 2 Cell Diversion and Dewatering

John,

Pursuant to your call, here is where we are at presently,

1. The cell dewatering was turned off about 3:00 PM on Thursday and the Phase 2 cell is now at hydrostatic equilibrium. Therefore there is no flow rate concern into the coffer cell. The water is clear.
2. On last Monday we rearranged the super sacks on the new Phase 1 apron in an effort to reduce the inflow into the Phase 2 coffer cell at the intersection of the new Phase 1 apron and the original dam footing. This effort allowed us to minimally draw down the water between the super sacks on the Phase 1 apron and the steel plates that separate the Phases, albeit it was still slightly turbid.
3. At this point we had not concluded the path of the water flowing into the Phase 2 cell, i.e. was it under the apron and/or steel plates and sheet pile. The only way to make such a determination was to begin drawing down the water within the Phase 2 cell. This resulted in a condition where the flow around the steel plates increased but the turbidity remained constant in the intermediate space (between the supersacks and the steel plates).
4. The consensus was to mitigate the inflow we needed to establish a secondary barrier inside the Phase 2 cell, a sub-cell in the NE corner, bounded by the steel plates, the dam footing, and an "L" shaped sheet pile wall (one leg aligning with Pier #7 and the other about 17 feet off and parallel with the face of the original dam footing). We would then confront the water issue inside the sub-cell. This would accomplish two things; 1. Allow work to continue from Pier 7 south, and; 2. Allow the opportunity to determine the origin of the inflow, isolating what appeared to be the problem area.
5. With the sub-cell in place, the Phase 2 cell dewatering effort was engaged. When the water level was reduced to 2 +/- feet below the top of the existing dam apron, the water inflow issue shifted to the new intersection of the "L" sheet pile wall (at Pier 7) and the downstream face of the dam footing/apron, from under the Dam. This confirms the water is traveling under the Dam (either from the Phase 1 cell or Upstream) and is traveling thru open graded material (say quarry spalls, riprap or a void).
6. We have arranged to have our Geotechnical Engineer (Mark Rohrbach) on site Monday and Tuesday of next week to observe the conditions in general and specifically those encountered in the placement of the piezometer.

John, I misspoke regarding the piezometer driller.

1. Tim still has him scheduled for a Monday afternoon install.

2. Are you going to have a Geotechnical Engineer on site for the drilling as specified?

If we need to talk, call Tim as I am in the office with him.

Thanks,

Jim

James A. Gebhardt, P.E.

Strider Construction Co., Inc.

4721 Northwest Dr.

Bellingham, WA 98226

Phones: Office 360-380-1234

Cell 360-319-7308



EXHIBIT C



IDAHO WATER RESOURCE BOARD

Brad Little
Governor

December 4, 2021

Jeff Raybould
Chairman
St. Anthony
At Large

James A Gebhardt, P.E.
Strider Construction Co., Inc.
Via email: jimg@striderconstruction.com

Roger W. Chase
Vice-Chairman
Pocatello
District 4

Priest Lake Water Management Project Outlet Dam Improvement Project –
Stop Work Order

Jo Ann Cole-Hansen
Secretary
Lewiston
At Large

Dear Mr. Gebhardt:

Dale Van Stone
Hope
District 1

Albert Barker
Boise
District 2

Dean Stevenson
Paul
District 3

Peter Van Der Meulen
Hailey
At Large

Brian Olmstead
Twin Falls
At Large

Observations starting on or around 18 November 2021 indicate that Strider’s cofferdam is not performing adequately. Specifically, there is high water flow (volume and velocity) likely coming from the northeast end of the cofferdam. We understand that the source of this flow has not been identified and that Strider’s attempts to stop the flow have been unsuccessful. There is concern that this flow could erode material from underneath the existing dam, both from flow coming from the completed Phase I (North) and incomplete Phase II (South) work areas. If material is eroded from the completed Phase I work area, there will be no practical opportunity within the construction schedule for Strider to repair this erosion which would result in permanent damage to the installed works and long-term performance of the Priest Lake Outlet Dam.

IWRB staff and the Owner’s Representative believe additional dewatering in the downstream cofferdam could pose a threat of serious harm to the dam structure at this time. Idaho Department of Water Resources Safety of Dams representatives are aware of the conditions referenced above and agree with this assessment. Therefore, the Idaho Water Resource Board hereby issues a Stop Work Order pursuant to Article 9 of the contract. Article 9 authorizes the IWRB to issue a stop work order if a “situation or condition that creates, or could imminently create, a threat of serious harm to persons or property” exists.

Strider shall not dewater the Phase II (downstream) work area until a formalized, reviewed, and approved plan is developed by Strider that

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098
Phone: (208) 287-4800 Fax: (208) 287-6700 Website: idwr.idaho.gov/IWRB/

IWRB014638

addresses the concerns documented above. Until then, the downstream cofferdam cell shall be maintained in equilibrium with the surrounding water levels. Strider may continue other works that are not dependent upon dewatering the Phase II (downstream) cofferdam.

Sincerely,

A handwritten signature in cursive script that reads "Emily Skoro".

Emily Skoro, P.E.
Technical Engineer I

cc: Cynthia Bridge Clark
John Dawson
Tim Yedinak
Kyle Gebhardt

EXHIBIT D



Ms. Emily Skoro, PE
State of Idaho
Idaho Water Resource Board
322 E. Front Street, Suite 648
P.O. Box 83720
Boise, Idaho 83720-0098

December 6, 2021

SUBJECT: Priest Lake Water Management Project – Outlet Dam Improvements
December 4 Stop Work Order--Season 2 Notice of Change of Conditions
Letter of Clarification, Demand for Owner Contractually Adherence and Notice of
Changed Conditions

Emily

We have reviewed your letter and complied with IDWR's "Stop Work Order" (hereafter Order) demands. As was stated in Strider's email of December 3, 2021 the Phase 2 coffer cell is in a state of hydrostatic equilibrium (and has been since the afternoon of December 2, 2021 when the dewatering of concern was first attempted). Given all work activities from this point forward require dewatering the Order has effectively shut down the Project. While minor non-critical items may be able to proceed, such work only increases costs (management/general requirements) and does not lessen any impact to the current schedule. For the record, the Order came over the weekend (outside normal project work hours) without a call to advise Strider of the existent or intent of IDWR's directive. The Order has materially disrupted our work schedule and necessitated calling off (over the weekend) planned work, crews and subcontractors, with no reasonable way to forecast a return to work date. For this impact and all to follow, this letter is notice Strider will be tracking our impact costs and submitting such costs for payment.

The Order is largely based on information Strider provided in our email of December 3, 2021 which served to define the present condition. IDWR's Order appears to assert Strider is somehow responsible for the condition and demands Strider develop a plan to address the condition. IDWR's allocation of responsibility is both factually incorrect and contrary to the terms of the Contract. This is not a design-build Project. Much like other issues on this project, IDWR is improperly attempting to foist responsibilities (and liabilities) to Strider which are clearly those of IDWR and its consultants.

Moreover, just as is in the case with the disputed subgrade issue of Phase 1/Season 1, this is not a cofferdam performance issue—contrary to IDWR's intimations otherwise. Rather, the water at issue is flowing from under the existing (original) Dam foundation where there is no, nor has there ever been, a coffer contemplated. Further it is not possible to coffer at the subject location without interfering with the permanent work thereby requiring a modification to the original design. Please review the RFI submitted by Strider on December 3, 2021 (posted to Bentley and attached) wherein we are requesting the "direction of the Owner's Representative" as contractually specified on Drawing A-2, Section A. When the Owner's Representative provides the "direction" to resolve this condition, Strider will develop an implementation plan and pricing for the work.

2430 E. Bakerview Road / Bellingham, Washington 98226 / Phone: (360) 676-5094 / Fax: (360) 752-0908
Contractor's Registration No. STRIDCC1210Z

Page 1 of 2



This Stop Work Order and IDWR's inability to provide a workable design is causing significant cost and impact that will only continue to accrue as this issue is not resolved. Strider understands that the Structural Engineer of Record plans on being onsite on December 15 to address this issue (over a week from today). Please also confirm when IDWR's Geotechnical Engineer (the one involved with the original design and technical assessment of the project) will be on site (as specified) as their evaluation and direction is most critical to resolving this issue. In both cases, Strider is concerned about the apparent lack of urgency on the part of IDWR in terms of timing and the reluctance to provide the specified direction. If the project is on hold for a "visit" until December 15th it is likely, given the project history of the design team, we will not be able to resume work until after January 1, 2022 and may even jeopardize a project completion this season.

As indicated, Strider will continue to track and submit the cost and time impact associated with IDWR's Order and inadequate design. The impact of this Order is compounded as it is occurring during an already tight winter and Holiday work season. With no clear directive or workable design from IDWR, Strider estimates the Rough Order of Magnitude (ROM) of this delay and impact to be approximately \$ 7,500 / day for General Requirements and Project Management. This ROM does not account for the ripple impact created by this delay and implications to the overall schedule including jeopardizing completion. In addition, the time impact will continue and delays accrue until the Stop Work Order is lifted and a workable, constructable design is provided.

We await IDWR's direction as to how Strider is to proceed expecting it to occur not later than December 9, 2021. Please let me know if any additional information is needed.

Sincerely,

A handwritten signature in blue ink, appearing to read "James A. Gebhardt". The signature is fluid and cursive, with a long horizontal stroke at the end.

James A. Gebhardt, P.E.
Project Sponsor
Strider Construction Co., Inc.

CC:
John Dawson
Kyle Gebhardt
Tim Yedinak

2430 E. Bakerview Road / Bellingham, Washington 98226 / Phone: (360) 676-5094 / Fax: (360) 752-0908
Contractor's Registration No. STRIDCC1210Z

EXHIBIT E

From: [John Dawson](#)
To: [Skoro, Emily](#)
Subject: FW: Tomorrow's Dewatering
Date: Tuesday, December 14, 2021 4:12:46 PM

John Dawson, PE

Principal Project Manager - Ports and Coastal

D 1-206.487.1307
john.dawson@mottmac.com

From: Jim Gebhardt <jimg@striderconstruction.com>
Sent: Tuesday, December 14, 2021 10:48 AM
To: Mike Morrison <mike.morrison@idwr.idaho.gov>; Kyle Gebhardt <kyleg@striderconstruction.com>; Tim Yedinak <TimY@striderconstruction.com>; Mark (Mark@ramgeoservices.com) <Mark@ramgeoservices.com>
Cc: Doug Jones <Doug.Jones@idwr.idaho.gov>; Richman, Michelle <michelle.richman@idwr.idaho.gov>; Skoro, Emily <emily.skoro@idwr.idaho.gov>; Michelle Gostic <Michelle.Gostic@mottmac.com>; John Dawson <John.Dawson@mottmac.com>; Cynthia Clark <Cynthia.Clark@idwr.idaho.gov>; Lyle J. Stone <lstone@geoengineers.com>; Frank Pita <frank@fwpitaconsulting.com>
Subject: RE: Tomorrow's Dewatering

Mike,

We have reviewed your email and complied with IDWR's reiteration of the conditions of the "Stop Work Order" (hereafter Order) demands. The email, received after business hours and while the Strider team was/is in transit to the jobsite, goes on to state your expectations of the observation meeting and subject drawdown. These expectations however were not expressed at any time prior and in our view differ from our previous group meeting discussion and agreement. The email coupled with the Observation Plan comments sent by John Dawson (12-10-21 email) suggest your representation (both M/M and GeoEngineers) will be passive during the drawdown and rely solely Strider's Geotechnical Engineer efforts.

Strider's Geotechnical Engineer's role has always been limited to observing the drawdown so he could develop diversion/dewatering plans as may be necessary to proceed. Strider's role is limited to providing the pumps, manpower and a seepage cutoff system similar or better than what we previously provided and/or as was implied would work in the Contract Documents.

Strider has no means to measure the rate of flow or pressure set up in the testing nor is it our obligation to do so. The Owner's Engineer can do the calculations set forth by Dawson's email if so desired.

In the end Strider is still awaiting IDWR's direction as to how we are to proceed and are providing the drawdown to facilitate IDWR's ability to understand the as-found and unforeseen conditions, and develop an appropriate response.

Thank you,
Jim

James A. Gebhardt, P.E.
Strider Construction Co., Inc.
4721 Northwest Dr.
Bellingham, WA 98226
Phones: Office 360-380-1234
Cell 360-319-7308



From: Morrison, Mike [<mailto:Mike.Morrison@idwr.idaho.gov>]
Sent: Monday, December 13, 2021 5:03 PM
To: Kyle Gebhardt <kyleg@striderconstruction.com>; Jim Gebhardt <jimg@striderconstruction.com>; Tim Yedinak

<TimY@striderconstruction.com>

Cc: Jones, Doug <Doug.Jones@idwr.idaho.gov>; Richman, Michelle <Michelle.Richman@idwr.idaho.gov>; Skoro, Emily <Emily.Skoro@idwr.idaho.gov>; Michelle Gostic <Michelle.Gostic@mottmac.com>; John Dawson <John.Dawson@mottmac.com>; Clark, Cynthia Bridge <Cynthia.Clark@idwr.idaho.gov>; Lyle J. Stone <lstone@geoengineers.com>

Subject: Tomorrow's Dewatering

A stop work order is currently in place. Do not begin dewatering until I arrive and provide written instructions to begin dewatering.

There is a risk of either damaging or increasing damage to the dam. Before taking this risk, I want to be absolutely certain that dewatering is necessary, and that Strider and Mark:

1. Know exactly what they are looking for.
2. Have the necessary tools that they need to take measurements and observations.
3. Have established criteria for determining the need to shut-down dewatering.

I should arrive on-site a little bit after noon.

Mike Morrison, Ph.D., P.E.
(208) 287-4835

EXHIBIT F



Mr. Michael W. Morrison, P.E.
State of Idaho
Idaho Water Resource Board
322 E. Front Street, Suite 648
P.O. Box 83720
Boise, ID 83720-0098

June 6, 2022

Mr. John Dawson, PE
Mott MacDonald
1601 5th Avenue
Seattle, WA 98101

Subject: Priest Lake Water Management Project
Outlet Dam Improvements--CON 01480
Grout Plan and Change of Conditions
Response to Idaho Water Resource Board Letter of May 16, 2022

Mr. Morrison,

Strider disputes IWRB's letter dated May 16th, 2022 (received by Strider on May 23rd, 2022 via email). IWRB's characterization of the status of the development of evidence to establish the Change of Condition is confusing, disappointing, inaccurate, and appears to be merely an attempt to avoid dealing with the matter. The information necessary to establish a Change of Condition has been provided to and reviewed by IWRB's representative and the entire Project Team. This effort is fully documented in the Project's Weekly Meeting Minutes, Issue I-14. We would encourage Mr. Morrison to read the minutes (see attached) as they contemporaneously chronicle all the discussion, decisions and direction provided regarding this matter.

IWRB's statement about a Strider hypothesis is both inaccurate and completely misses the point of the December 15th meeting. The on-site December meeting (actually the 14th and 15th) was in reality an extensive field test/demonstration to determine the origin and cause of the under Dam seepage/flow that prompted IWRB to issue a Stop Work Order on Dec. 4th 2021. This test/demonstration was performed under the direction of RAM GeoServices' Mark Rohrbach, P.E. (a Geotechnical Engineer, licensed in Idaho). RAM GeoServices had no preconceived notion about the under Dam flow/seepage. The testing involved dewatering drawdowns of the Phase 2 cell and documentation of recharge to quantify flows and determine origins. IWRB had representation at the meeting (Morrison and others), as did IWRB's Engineer Mott/Macdonald (M/M), or more accurately M/M's consultant--Geo Engineers. IWRB's comments about Strider's assertion are not attributable to RAM GeoServices and are a carryover of Season 1 theories advanced by Dam maintenance staff during Phase 1 construction (i.e. prior to the attempts to dewater the Phase 2 cell). None of the pre-testing Season 1 theories advanced by Strider or IWRB or any other party, reflect Strider's current testing and evidence based position.

4721 Northwest Drive / Bellingham, Washington 98226 / (360) 380-1234 / Fax: (360) 380-3456



The field test information was then reviewed by RAM GeoServices and a presentation made to the entire project team on or about December 20th. Strider was lead to believe the Project Team was satisfied as to the origin of the flow and established the Change of Condition as evidenced by the attached Meeting Minutes, Issue I-14.

The following outline of the timeline further corroborates that the Change of Condition had been established:

1. Season 1/Phase 1—Strider advises IWRB in numerous letters of a Change of Condition (the seepage/flow and unstable subgrade; the origin of which we couldn't fully define because we never got into the Phase 2 cell) during the construction of the keyway and apron (including the piezometer installation). The inability of the specified cofferdam /dewatering system to provide the necessary work area conditions for construction was defined as the Change, and at minimum the product of a deficient design. The impacts of the Change are captured in the disputed items of C.O. #3. This precipitated the following:
 - a. The need to switch to sheet pile.
 - b. Cofferdam Subgrade Failure and wall subsidence.
 - c. Concrete Apron flooded (due to cofferdam subgrade failure) during cure period—IWRB is withholding money yet the Contract allows a water cure which the flooded conditions met.
 - d. Extra work in excavation and armor rock placement.
 - e. A second season.
2. Strider coffers the Phase 2 cell using sheet pile as opposed to the specified system (disputed cost item of CO#3) for the Season 2/Phase 2 work area only to discover the water in the cell can't be drawn down without an unacceptable amount of sediment laden water flowing from under the Dam. We advise IWRB, December 2, 2021.
3. IWRB is concerned and issues a Stop Work Order (SWO), December 4, 2021.
4. Strider again notifies IWRB of a Change Condition and that all costs associated with the SWO are compensable.
5. IWRB requests Strider to demonstrate the water is coming from under the Dam. Morrison assured Strider "if you can demonstrate the water is coming from under the Dam, I will accept it as a Changed Condition".
6. December 14th and 15th: Strider arranges and performs an extensive and expensive drawdown test for which IWRB and its design team are present. RAM GeoServices (Mark Rohrbach) conducts the test. Mark Rohrbach and Frank Pita (not on site but serves in an advisory capacity) are Strider's Geotechnical Engineers.
7. The results of the drawdown test are presented by RAM GeoServices (on or about Dec. 20th) to all parties and demonstrate water is coming under the Dam. All Parties agree the flows are coming from under the Dam, confirming the Change of Condition.

- a. A key participant in the December 20 meeting was Mr. Lyle Stone, P.E., the Project's Geotechnical Engineer of Record.
 - b. During the meeting Mr. Lyle Stone verbally agreed that RAM GeoServices input parameters were reasonable and the technical conclusions (i.e. water is flowing to the downstream side of the dam through the per-plan drain pipes under the dam through the "Filter Sand Layer" and then into the Phase 2 area) are consistent with all available data.
 - c. Mr. Lyle Stone also verbally agreed that to his knowledge there was no other feasible theory and that the 'Y' and 'T' options theorized by Geoengineers' field representative on December 15th (after observing the test) were not supported by the data.
8. Strider now understands a Change Order will be opened for the additional costs. Contrary to Morrison's letter, there is no mention of IWRB not being satisfied there is a Changed Condition after this presentation.
 9. Strider requests direction from the Owner as to how to proceed.
 10. IWRB calls a meeting to determine possible courses of action.
 11. Strider suggests a physical cutoff/barrier to the seepage under the Dam. Two options exist—sheet pile cutoff wall or grout curtain wall.
 12. Grouting is the preferred option of all Parties as sheet pile greatly complicates the installation of the Phase 2 concrete apron. Morrison asks if Strider is willing to perform the grout work. Strider says yes based on IWRB's confirmation this is extra work.
 13. Morrison directs Strider to prepare a draft Grout Plan while M/M is charged with getting an advanced concept approval from IWRB Dam Safety and finalizing the Grout Plan. Time is of the essence to get this work and the remaining Contract work done in the Season 2 work window. All parties acknowledge grouting, and all depending matters, are outside the scope of the original Contract and will be the subject of a Change Order(s) to follow.
 14. Morrison asks Strider what other work can be accomplished to advance the Project while the Plan is being developed and approved.
 15. Strider advises Morrison that with the SWO we cannot dewater the Phase 2 coffered cell, eliminating any concrete apron and subsequent channel work. However the Tainter Gate rehabilitation work could be performed if we modified our installation techniques/approach and did some extra work to dewater only the immediate area of the Tainter gates.
 16. Strider provides Morrison a forward priced request for the Change Order to proceed with the modified approach to gate rehabilitation work, submitted in Bentley February 8th, 2022 and Morrison issues an Order to Resume Limited Work on March 3rd, 2022.
 17. The Grout Plan is reworked at least 4 times by RAM GeoServices to satisfy M/M's concerns (mostly grammatical and minor issues) all the time with Strider believing M/M was concurrently securing Dam Safety approval of concept and would finalize the Grout Plan.
 - a. During this process RAM GeoServices requested:

- i. all of the project geotechnical information available
 - ii. the opportunity to interface with IWRB's geotechnical engineer or anyone from IWRB who is generally familiar with the proposed design-build contracting mechanism
 - iii. the opportunity to interface with IWRB's geotechnical engineer or anyone from IWRB who is generally familiar with the grouting methods proposed.
 - b. RAM GeoServices was never allowed to work collaboratively with anyone on the IWRB Design Team or anyone familiar with the proposed means and methods.
 - c. IWRB's Geotechnical Engineer was conspicuously absent or silent during design development
18. Strider is maintaining the site in a "ready to resume work immediately" status. This is a significant part of the impact costs of the Stop Work Order.
19. Some 4-6 weeks later into the process of developing the Grout Plan, Strider is advised no action has been taken by M/M to get advanced approval of the grouting concept with Dam Safety and in fact they had unilaterally decided to wait until the Plan was "complete" before submitting anything to Dam Safety.
20. Based on this, it appears Strider was/is being forced to fully develop the Plan.
21. At this point Strider notified IWRB there was no way the Project could be completed this season given the lag in Plan approval plus the time required to perform the grouting, both of which would have to be added to the original as-planned duration of the Contract work. This would push the end date well beyond the work window limits. Strider suggested it was likely in the Owner's best interest to secure the site for another year and have Strider demobilize.
22. M/M submitted the Grout Plan to Dam Safety at a date and in a form not known to Strider.
23. Strider had not heard anything further about the Grout Plan review status until receiving Morrison's May 16, 2022 letter stating the Grout Plan is "incomplete and rejected by Dam Safety". There is no formal record of the rejection nor any indication as to why it is considered incomplete or what steps are being done to resolve this issue.

While we understand IWRB's need to satisfy itself as to the Change of Condition, based on the Meeting Minutes and Morrison's statements and actions, the Project record demonstrates IWRB's acknowledgement of a Changed Condition. Strider is, in turn, entitled to a Change Order. Morrison's letter, however, contradicts these past discussions and events and, instead, takes a giant leap backwards in asserting Strider's actions somehow caused this under-Dam seepage/flow condition. With fulltime on-site inspection by IWRB, the notion Strider deviated from constructing the work as designed is not supported by the contemporaneous project documentation. Moreover, if the resultant condition is a product of the construction, as the construction was compliant with the design (Contract Documents), then it is a design issue.

In order to advance the project and the resolution of these matters, Strider has directed RAM Services to again compile the information provided to IWRB in the December meetings. The costs of these services (estimated to be \$10,000) will be to IWRB's account and add to that

amount already requested for the Grout Plan. This geotechnical assessment which was convincing enough before for the IWRB's representative should clear the way to gain recognition of the Change of Conditions. We fully expect this assessment will also serve to substantiate the entitlement for disputed items of Season 1 Change Order #3 (the topic of a separate letter). With that, Strider fully expects Change Orders will also be prepared which address the associated extra work Strider has performed, to include, but not limited to:

1. Additional Work for Tainter Gate rehabilitation (topic of a separate letter).
2. Grouting Plan (no matter if accepted by Dam Safety or not)
3. Grouting (or alternate means of providing a barrier to prevent water inflow)
4. Impacts of the Stop Work Order
5. Season 3 Additional Costs

As a technical matter, Strider now believes the design which Strider was hired to construct is technically flawed and is not supported by standard-of-practice engineering methods. These omissions specifically include:

1. No effort to characterize the soils below the Dam. In 1978 the area was explored via three test explorations. During the design phase of this Project it was explored by zero (0) explorations even though there was knowledge of the scour event which necessarily changed the 1978-per-plan soil conditions.
2. No seepage analysis perpendicular to the flow of the River was evaluated.
3. The sand filter layer, through which Strider and RAM GeoServices believe the water is flowing, was omitted from the calculations prepared by GeoEngineers.
4. The project geotechnical report provided to Strider, and other contractors at bid time was redacted and important information not included.
5. Some of the recommendations made in the project geotechnical report were not implemented by IWRB.

We are becoming increasingly concerned that IWRB's Engineer (MM) and possibly IWRB itself has misled the Office of Dam Safety. This concern is based, in part, on the email of March 15, 2022 from Mr. Morrison which is reported to be the result of "Dam Safety's review". Specifically the third review comment under the heading "RAM Design Text" states "*Sheet 2 (Item 25) – As best, this statement is an exaggeration as I understand that **great effort has been made to verify/validate soil properties** noting that some values are subjective due to the lack of additional exploration/ testing.*" To our knowledge, **no** effort has been made to verify/validate soil properties. If such an effort did occur please provide the results of that effort to us.

In sum, as has been previously explained, to date, no technical argument refuting the proposed grouting plan has been provided. In contrast, every Owner furnished design concept has been technically flawed or simply not possible. This is not a design build project. For Strider to move forward safely and efficiently, a sound, updated design and grouting plan approved by Dam Safety is required.



Finally, to put this in context, without a barrier to the water inflow we simply cannot proceed with any of the remaining Contract work. While Strider has been making every effort to facilitate solutions, IWRB's failure to timely address these issues, compensate Strider for its work, and communicate is precluding any further progress and only resulting in additional costs and expense. Moreover, grouting, the preferred and likely only viable solution that has been identified, is outside the scope of the Contract. We will need to have the plan in place before mid-August 2022 to meet the work window for the Project. Strider can only resume work with a favorable resolution to the above matter, including the issuance of a Change Order so we may know how we are to proceed.

Sincerely,

A handwritten signature in blue ink, appearing to read "James A. Gebhardt".

James A. Gebhardt, P.E.
Project Sponsor

cc: Bentley Project Documentation File
Lindsay Watkins
Kyle Gebhardt
Tim Yedinak

Meeting Minutes for Apr 06th, 2022

Priest Lake Water Management - Outlet Dam Improvements

Attendees:				
Mott MacDONALD (MM): <input type="checkbox"/> John Dawson <input checked="" type="checkbox"/> Michelle Gostic <input type="checkbox"/> Evan Sheesley <input checked="" type="checkbox"/> Shem Kobialka <input type="checkbox"/> Lisa Greno	IDWR: <input checked="" type="checkbox"/> Mike Morrison <input checked="" type="checkbox"/> Neeley Miller <input checked="" type="checkbox"/> Michelle Richman Moffatt & Nichol: <input type="checkbox"/> Shane Phillips	Strider Construction <input checked="" type="checkbox"/> Jim Gebhardt <input checked="" type="checkbox"/> Tim Yedinak <input type="checkbox"/> Kyle Gebhardt RamGeoServices <input type="checkbox"/> Mark Rohrbach	DEA: <input type="checkbox"/> Josh James <input checked="" type="checkbox"/> David Suhr <input checked="" type="checkbox"/> Keith Hall	Others: GeoEngineers: <input checked="" type="checkbox"/> Lyle Stone <input type="checkbox"/> Ethan Donahue

A: Safety and Traffic Control			
Issue No.	Date	Issue Description/Comment	Action Required By
	Ongoing	Strider has worked 127 days without a lost time accident	INFO
	INFO	All guests must check in at the job trailer and when on site follow CDC guidelines for Covid-19.	INFO

B. Environmental			
Issue No.	Date	Issue Description/Comment	Action Required By
B-3	INFO	Submit daily turbidity logs on a weekly basis to DEA/MM on Bentley	Strider

C: CPM Schedule			
Issue No.	Date	Issue Description/Comment	Action Required By
C-3	03/10/21	Season 2 Schedule to be developed and submitted	Strider
		Updated Season 2 schedule submitted (03/17)	
	11/03/21	3-week look ahead does not match most recently submitted CPM. Strider to submit updated CPM	Strider
	12/01/21	Strider will be submitting one soon	Strider
	12/08/21	Nov CPM Submitted (12/06) – Under Review	MM
	04/06/22	No change.	
C-4	01/12/22	Strider submitted the Dec CPM schedule- under review.	MM
	04/06/22	No change.	

C-5	02/16/22 04/06/22	Strider submitted the Jan CPM schedule- under review. No change.	MM
C-6	03/09/22 04/06/22	Strider submitted the Feb CPM schedule- under review. No change.	MM

D: 3-Week Look Ahead Schedule			
Issue No.	Date	Description/Comment	Action Required By
	Ongoing	Strider discussed their 3-week look ahead	INFO
	Ongoing	Monthly Onsite Meetings: The next onsite meeting is tentatively scheduled for mid to late March. Possibly when the work on the Gate 1 and 3 J-seals takes place.	INFO

E: Submittals			
Issue No.	Date	Issue Description/Comment	Action Required By
E-1	02/23/22	MM asked Strider if they had conducted the Pre-Con Inspection for Phase 2 this season. Strider said they did and would submit it.	Strider
	03/09/22	Strider submitted (3/3)- under review.	MM
	04/06/22	No change.	

F: Change Orders			
Issue No.	Date	Issue Description/Comment	Action Required By
F-1	02/09/22	Strider uploaded the Cost Estimate for the Extra Work. IDWR would like to have a conversation with Strider to provide clarification on some items to ensure they are not already covered under the original contract.	IDWR/Strider
	02/16/22	MM will set up this meeting for tomorrow, 2/17, at 1200. IDWR, MM, and Strider will attend.	MM

	02/23/22	IDWR wants Strider to provide written clarification of was discussed and clarified verbally in the meeting.	Strider
	03/02/22	Strider provided the written clarification to IDWR. From the discussion on Pay Estimate #06, additional clarification may be needed to ensure no items are duplicated between this CO and Pay Estimate #06.	IDWR/Strider
	03/09/22	IDWR questioned why there are dates, crews, and work descriptions duplicated between this Change Order and Pay Estimate #06.1. IDWR and Strider will have a discussion to clear the confusion.	IDWR/Strider
	03/16/22	IDWR and Strider discussed and came to a temporary agreement for Pay Estimate #06.	
	03/23/22	Strider requested additional discussion for this CO.	IDWR/Strider
	04/06/22	IDWR will process for payment.	IDWR
F-2	03/09/22	Grout plan updated- under review with IDWR.	IDWR
	03/16/22	IDWR provided comments to Strider that need to be addressed and resubmitted.	Strider
	03/23/22	Strider returned comments which MM received and will review.	MM
	04/06/22	No change.	
F-3	04/06/22	Strider submitted CO request for grout plan preparation- under review with MM.	MM

G: Documentation (Pay Estimates, Certifications, Time Charges, etc.)			
Issue No.	Date	Issue Description/Comment	Action Required By
G-9	03/09/22	Pay Estimate #07 submitted- under review.	MM
	03/23/22	MM is reviewing the Allwest report and are looking for fully functional gates for payment to be made on the gates.	MM
	03/30/22	MM provided a response from their review of the Allwest inspection report requesting additional information from Strider.	Strider
	04/06/22	Strider provided additional information that is under review with MM. MM requested some form of a statement from the 3 rd Party Inspector confirming that the approved materials were used and installed per the design- Strider felt that information was provided in the report. MM will take another look to see if the documentation provided is acceptable to meet the request for the statement.	MM

H: Public-Related Issues (Holidays, Public Complaints, Customs Issues)			
Issue No.	Date	Issue Description/Comment	Action Required By
H-1	03/16/22	IDWR will contact landowners pertaining to the clean-up of the site, but IDWR anticipates that it will be similar to last year. IDWR and/or Strider will contact Walt specifically about leaving the long sections of the dewatering pipe along the side of the access road.	IDWR/Strider
	03/30/22	Strider contacted Walt and he is ok with leaving the long sections of the dewatering pipe along the access road. Strider also informed Walt they planned to return in 2-3 weeks to finish demobilization and the cleanup of the site. IDWR will contact the landowners.	IDWR
	04/06/22	IDWR reached out to the landowners pertaining to the project extending into a 3 rd season. Walt is ok with access for a 3 rd season; Walt would like gravel placed over the sand between the job trailer and the river. Walt also wants to be informed when the final site cleanup work will take place so he can be onsite for it. No conversation has taken place with Rick yet. Strider will remove the orange construction fencing from the side of the access road- Strider will not reinstall the fencing unless directed to do so.	IDWR/Strider

I: General Issues			
Issue No.	Date	Issue Description/Comment	Action Required By
I-11	11/03/21	J-Seals: Strider has not yet looked specifically at them yet. MM to send photos of gates of concern.	MM
	11/17/21	The photos were emailed by MM (11/10). DEA/Strider will look at the seals onsite when the gates of concern are closed; however, the gates are currently open and are expected to remain open for a while.	DEA/Strider
	02/16/22	DEA will observe the debris wedged at the J-seal of the south side of Gate 3 when onsite today. Strider requested that all be informed of when the testing of the J-seals will be conducted, including Dam Maintenance.	DEA/Strider
	02/23/22	DEA observed the debris wedged in the J-seal on the south of Gate 3- observations and photos were included in the 2/16 report. MM stated that the J-seals of Gates 1 and 3 were leaking as soon as they were put into use after the work last season. Strider was asked when they plan to fix the leaking J-seals on Gates 1 and 3- Strider would like to this to happen in the summer, IDWR and MM want it done as soon as Gates 7 thru 11 are back in use. Strider will provide a timeframe for this for IDWR to review. At a minimum, Strider, Dam Maintenance, and DEA need to be present for the work on the Gate 1 and 3 J-seals.	Strider

	03/23/22	Strider will tune the cables to better set the gates with leaks in the gate opening and lift the gates evenly. Strider recommends adjusting the gates in June when there will be a full head of water pressing against them. IDWR will probably not make any further payment for tainter gates until the gates have been tuned and the leaks stopped.	Strider
	03/30/22	Strider readjusted Gates 7-11, Strider said the gates will need to be exercised and worked and that the Dam Operators were aware of what they needed to do. MM will review the letter Strider provided and develop a response.	MM
	04/06/22	IDWR is finalizing their response. IDWR requested Strider provide a plan for what the effort will need to be to get the best results from exercising the gates.	IDWR/Strider
I-14	12/08/21	Stop Work Order: IDWR issued the Stop Work Order on 12/04. IDWR issued the Stop Work Order due to water being believed to be flowing under the dam. Initially IDWR thought that the water was flowing underneath the dam upstream to downstream (due to Strider's remarks), but through the course of the meeting it was clarified that Strider believes that the water is flowing laterally under the dam on the downstream side of it. Strider believes that the water is flowing underneath the dam laterally and not around their sheet piles (which are driven approx. 15ft under streambed elevation). Action: Strider to put a plan together to try to test where the water is coming from. Strider stated that their Geotech (Mark H.) will be on site and has requested that IDWR's Geotech be on site for the testing. They have also requested a partial start work order be given so they can perform this test.	All Strider/ IDWR
	12/22/21	Strider is working on a plan relative to a grout curtain; they are speaking with two (and maybe a third) grouters to get the work done. IDWR requested that Strider provide a comprehensive and clear plan and cost to completion. IDWR wants to do this work by a Change Order, meaning that all work will be approved ahead of time. IDWR is working to get a Partial Start-Work Order provided to Strider to continue any work that does not include dewatering.	IDWR/Strider
	01/05/22	Strider may decide to request a Modified Stop Work Order allowing them to partially dewater the cells to cycle the pumps and work on any exposed cofferdam leaks. IDWR requested that Strider look into less extreme solutions than the current grouting plan which includes drilling holes in the dam and to provide more information on why Strider feels these less extreme options will not work if that is what Strider decides.	Strider
	01/12/22	Strider asked if it would be acceptable to use T&M for the Change Order work. IDWR said that sounded reasonable but will check to make sure that it is okay and get back to Strider. IDWR did expect that if it was acceptable that there would be a "not to exceed" amount.	IDWR/Strider
	01/19/22	IDWR will push for timely responses from both MM and Strider. Strider needs to address all the comments and concerns MM (Shem/EOR) provided in response to the Grouting Plan. A meeting to discuss this plan further is scheduled for 1:00 PM today.	ALL

01/26/22	Anything that can be completed this season IDWR wants done. If we get to a point that completing the project before the end of this season is no longer possible, IDWR wants Strider to inform them. IDWR will provide a Stream Flow Forecast model around the time we get back to work to assist Strider with putting a schedule together. Strider will look into the concept of modifying the cofferdam from the center of Bay 8 to allow work for Bays 9-11 this season.	IDWR/Strider
02/09/22	IDWR issued an Order to Resume Limited Work on 02/07 on the metal work. Strider will look into the concrete repair and be ready to discuss it next week.	Strider
02/16/22	MM provided Strider (2/15) an alternative concept to the grout curtain to consider which included using a stop log and culvert pipe to bypass water to potentially stop the upwelling of water. Strider was opposed to the concept at the time it was provided. Explanation of the reasons for Strider being opposed to the concept were requested from IDWR during the meeting. The explanation provided by Strider included the timing and water conditions would make it difficult and dangerous to implement due to the increased velocity of the water through open gates when additional gates would be closed and that the current success of the stop logs being used is not taking place in flowing water and would require more strength than a wooden structure would provide. Strider does feel this would be a concept worth developing into a plan if the cofferdam were not in place and suggested possibly trying this next season before a cofferdam is installed. IDWR is not looking to replace the grout curtain plan but would like other Plan B options considered and if possible experimented, which IDWR offered to cover the cost of. Unless a concept is experimented and proven successful, IDWR does not want the grout curtain moved to Plan B. IDWR will do some calculations and decide if the stop log concept is an option they would like to push and they expect a Plan B from Strider ready in the event the grout curtain does not work.	IDWR/Strider
02/23/22	IDWR stated further discussion is needed for the drop-dead date for any remaining work to be completed this season. Strider said that if the grouting contractor is not onsite the first week of March then it will not happen this season. Strider provided a sketch of the proposed cofferdam setup for exiting the Season 2 work and entering the Season 3 work. This proposal is under review with IDWR/MM.	IDWR/MM/ Strider
03/02/22	Strider submitted (3/1) an updated Dewatering and Grouting plan for review. Strider also submitted an off-season sheet pile plan- MM takes no exception to the plan, but MM does take exception to the reconfiguration of Cell 2A if the grouting is not going to take place this season. GeoEngineers will look further into the use of stop logs at varying depths of water.	MM/ GeoEngineers
03/09/22	GeoEngineers asked for clarification of specific depths from Strider; Strider said between 3 and 4 feet. MM stated that the subgrade in Cell 2B will need to be restored to Pre-Season 2 work condition and leaving the sheet pile for the cofferdam in the same configuration as it was left last season was acceptable. Strider also requested to fill the culvert pipe	IDWR/MM/ GeoEngineers

	03/16/22	for the sump pump with quarry spall to protect it until the Season 3 work; MM took no exceptions to this. Strider requested to leave the quarry spall for the bridge landings in place until Season 3, IDWR/MM will discuss this with Strider on a later call that IDWR will schedule. GeoEngineers will expedite the response for the stop logs. The bridge landings will be removed. IDWR confirmed that the response provided to Strider was from Dam Safety and stated that Dam Safety is not opposed to the grout curtain, it just needs to be done right and the response to Dam Safety's comments will need to be in the form of a stamped set of drawings. It was agreed that Mark will respond to the comments provided by Dam Safety by email to MM to make sure that both parties agree that Dam Safety's comments are being properly addressed prior to providing an updated set of plans for review. IDWR wants to discuss Area 2 in the plan set further with MM.	IDWR/MM/ GeoEngineers/ Strider
	03/23/22	GeoEngineers needed some additional information which Strider provided in the meeting- GeoEngineers will provide a response which may have several caveats.	GeoEngineers
	03/30/22	GeoEngineers looked into the use of stop logs and stated that at 3-4 feet it is marginal, however they cannot give the OK now as they will need to see a more detailed drawing and plan for review before a formal OK can be provided.	Strider
	04/06/22	Strider will develop a preliminary concept to be followed up with a more formal plan after concerns are addressed with the preliminary concept.	Strider

J: Project Quality			
Issue No.	Date	Issue Description/Comment	Action Required By
J-2	11/17/21	Strider will provide a date range when they have one for the non-destructive testing of the Season 1 Phase 2 concrete. Currently looks to be no sooner than the week of 12/06.	Strider
	11/24/21	IDWR stated they will facilitate the cost of the concrete testing but reserves the right to request compensation from Strider in accordance with the contract. It is expected that Strider will cover the cost of the dewatering to provide access for the testing since they did not follow their own cold weather concrete plan. Strider previously said the opportunity for such testing would occur later in the season but said a revision in their work plan may create an earlier opportunity.	Strider
	12/01/21	Timing of the testing is dependent on how the sealing of the cofferdam goes. Will re-evaluate once the new section is installed and Strider can determine where the water is coming from.	Strider

	12/08/21	Strider position states that they will need to be compensated if extra dewatering is needed. Area is within the "Middle Zone," so this is dependent upon the Stop Work Order. IDWR will do their best to minimize impact to dewatering schedule.	All
	12/22/21 02/09/22	The plan is for this testing to take place at the same time as the grouting. Strider will be ready for the non-destructive concrete testing in the next week or two. This will include the concrete surface preparation for the testing. Strider will look into the option of using a modified stop-log assembly to allow the water to be drawn down at Gate 6 for this testing.	Strider
	02/16/22	Strider plans to rearrange Bay 6 in the next couple days, might be ready for the testing middle of next week. Strider proposed a core be taken and compressive strength testing be done in lieu of the non-destructive tests. IDWR and MM stated that they are not interested in compressive strength of the cores, they have no concern that the overall compressive strength will be good. Their concern is the durability of the surface of the apron after the event last season. IDWR stated that they want the Schmidt Hammer and Windsor Probe tests performed.	Strider
	02/23/22	The plan is for this testing to be conducted in coordination with the Gate 6 isolation for grouting. If the grouting does not take place this season then the testing could possibly happen when the onsite conditions improve for sealing off the Gate 6- maybe in a couple weeks.	Strider
	03/09/22 04/06/22	This testing will be held off until Season 3. No change.	
J-3	02/16/22	Strider would like to get the buy-off on the metal work scheduled so Strider can pull the crew off the site. MM will get back to Strider today on getting that scheduled.	MM
	03/09/22	MM will discuss with IDWR and get back to Strider.	MM
	03/16/22	Strider is to upload the test results for review.	Strider
	03/23/22	Strider submitted- under review.	MM
	03/30/22	MM responded and Strider is working on addressing the comments.	Strider
	04/06/22	This item is discussed in G-9 and will be removed from this location.	REMOVE
J-4	03/09/22	Strider will have Allwest onsite to inspect the welds on the gate extensions before the welds are galvanized this season.	Strider
	03/23/22	Allwest inspected the welds. Strider will galvanize the welds this week.	Strider
	03/30/22	Strider will galvanize the welds when they return in 2-3 weeks.	Strider
	04/06/22	No change.	

The next meeting will be held on: 04/13/2022
Location: Microsoft Team Meeting

Minutes By: Keith Hall