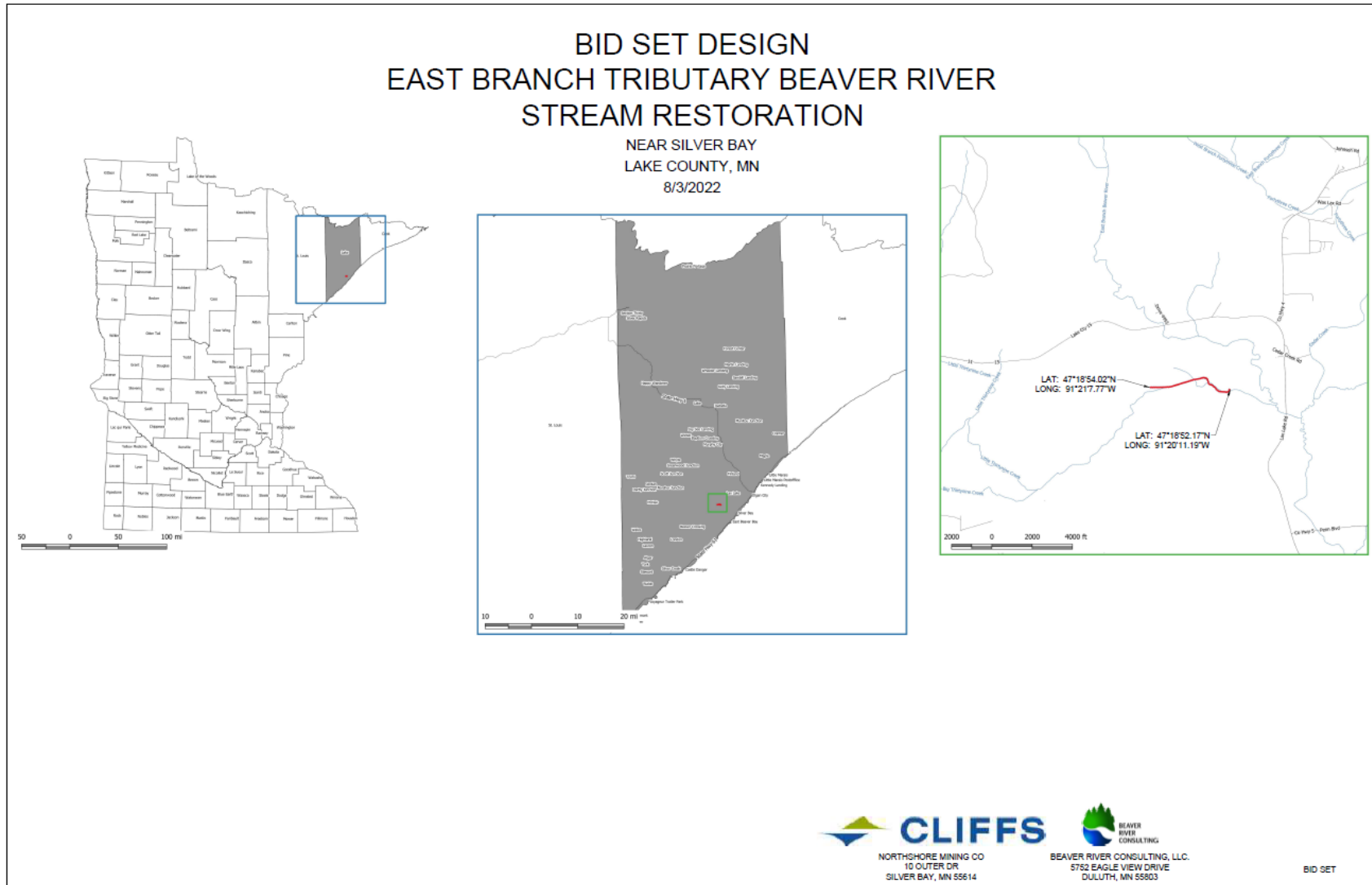


MILE POST 7/STREAM MITIGATION PROJECT EAW

APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 1)



Source: Northshore Mining Intermediate Data Submittal No. 1 (October 3, 2022)

MILE POST 7/STREAM MITIGATION PROJECT EAW

APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 2)



Source: Northshore Mining Intermediate Data Submittal No. 1 (October 3, 2022)

MILE POST 7/STREAM MITIGATION PROJECT EAW

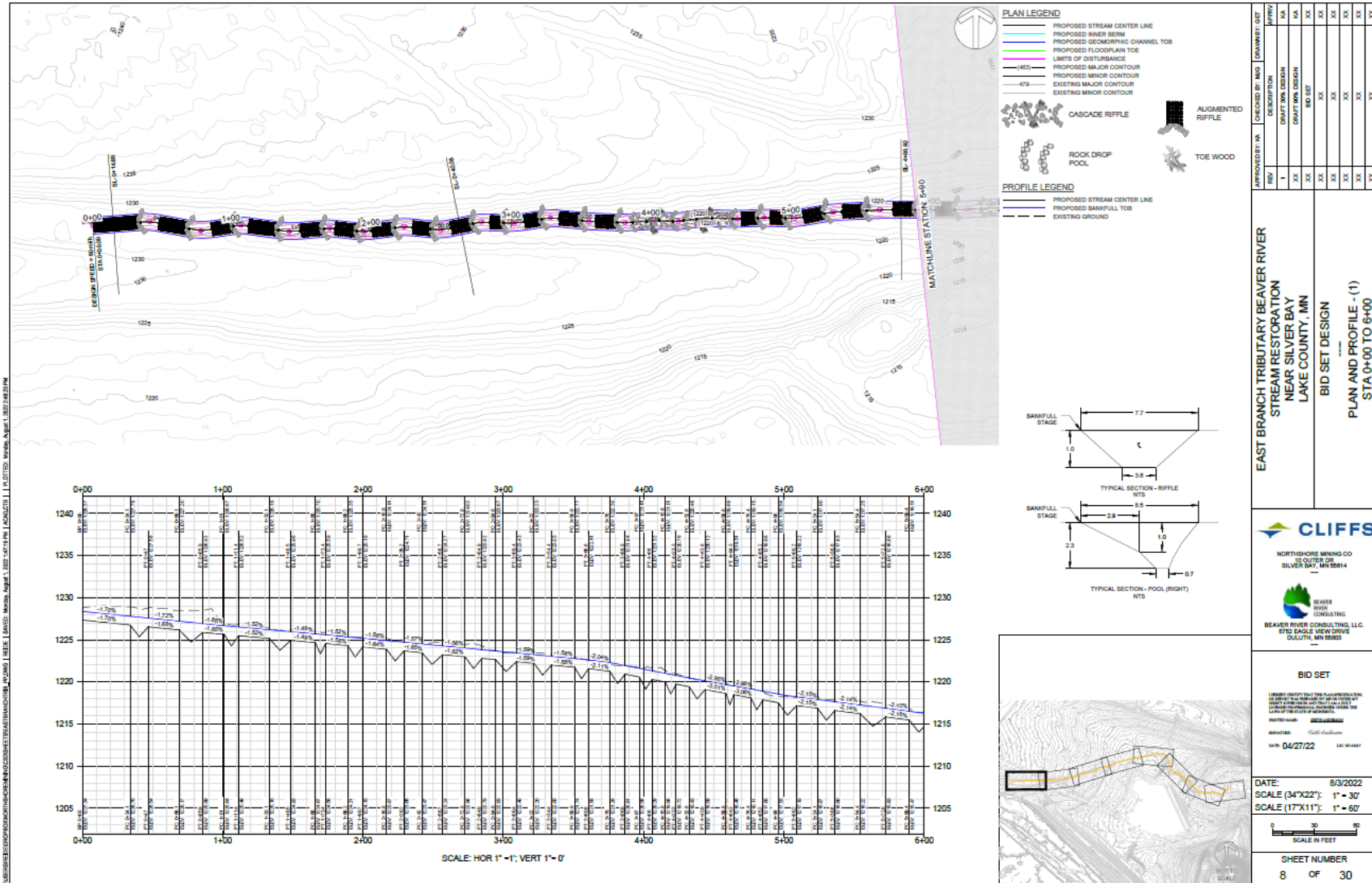
APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 3)



Source: Northshore Mining Intermediate Data Submittal No. 1 (October 3, 2022)

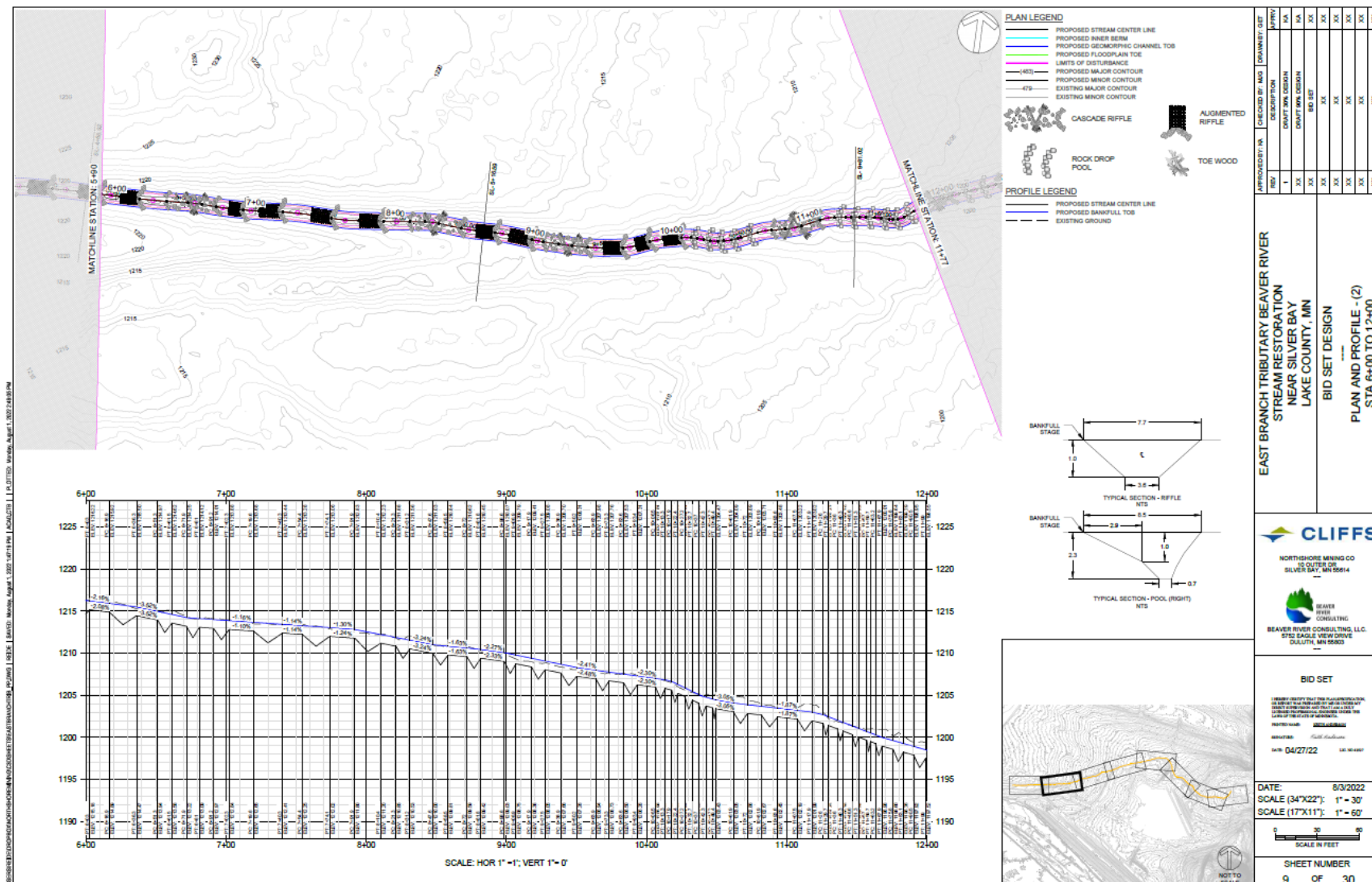
MILE POST 7/STREAM MITIGATION PROJECT EAW

APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 4)



Source: Northshore Mining Intermediate Data Submittal No. 1 (October 3, 2022)

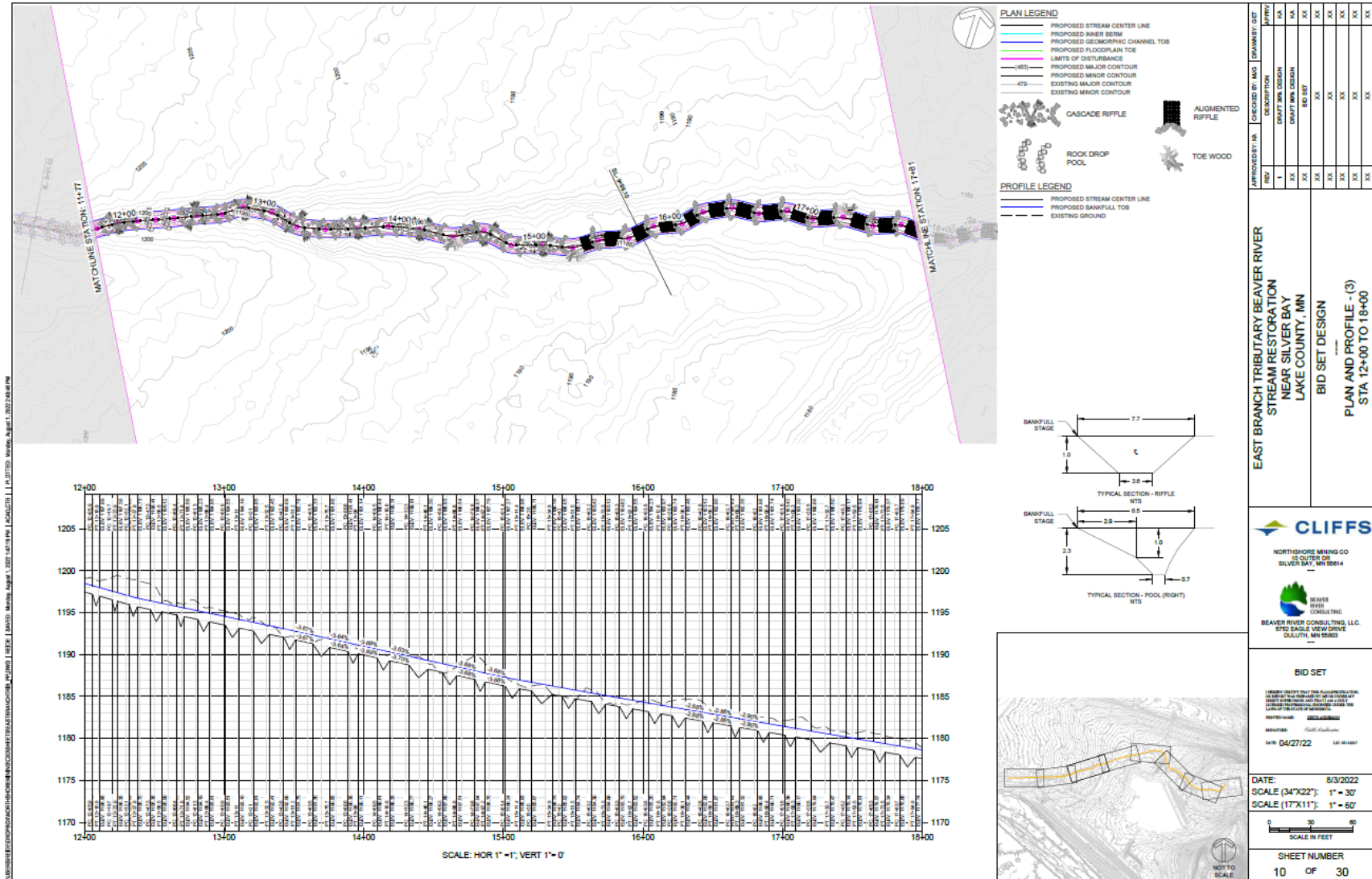
APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 5)



Source: Northshore Mining Intermediate Data Submittal No. 1 (October 3, 2022)

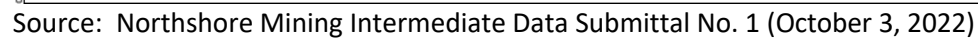
MILE POST 7/STREAM MITIGATION PROJECT EAW

APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 6)



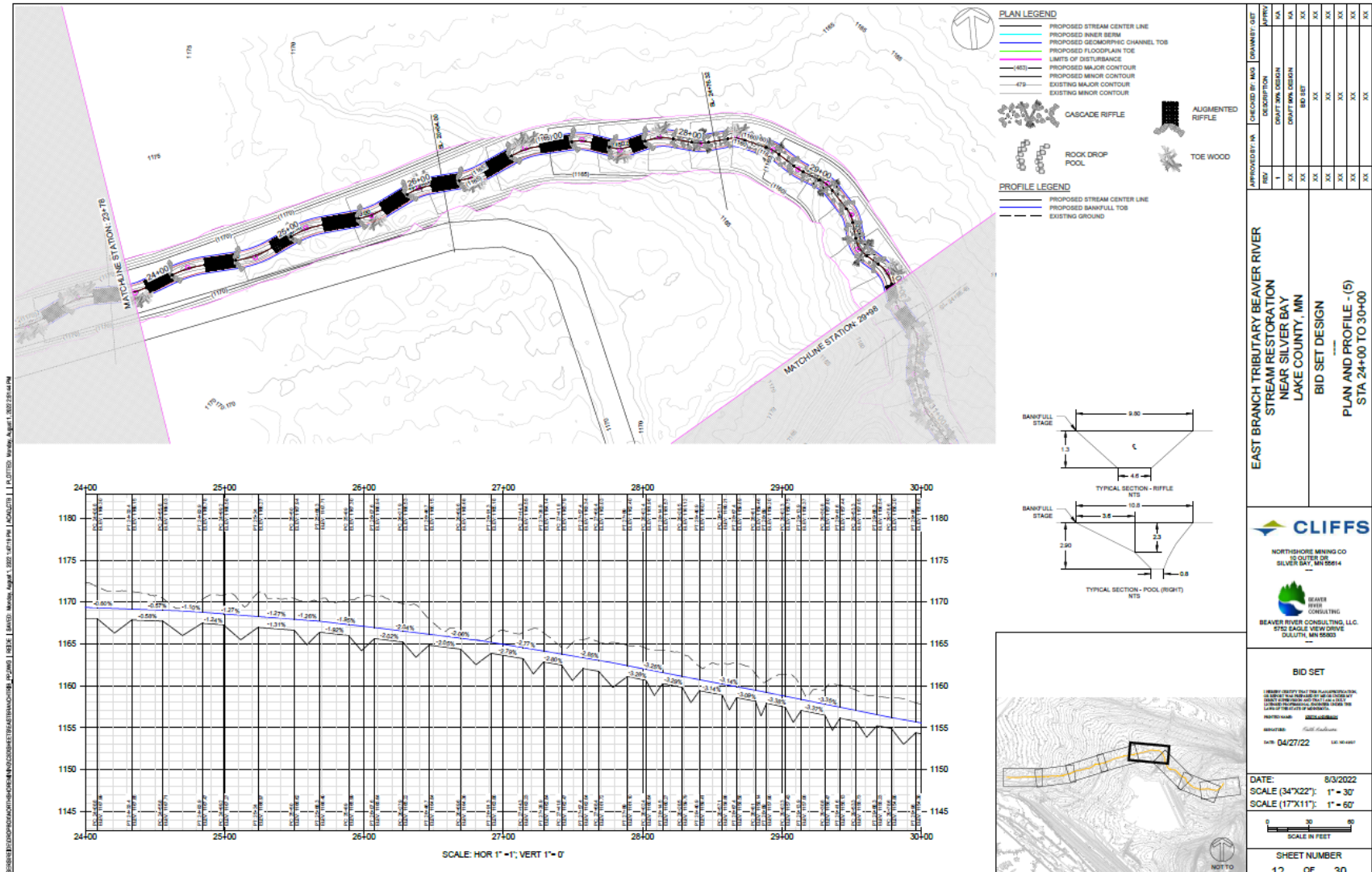
Source: Northshore Mining Intermediate Data Submittal No. 1 (October 3, 2022)

APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 7)



MILE POST 7/STREAM MITIGATION PROJECT EAW

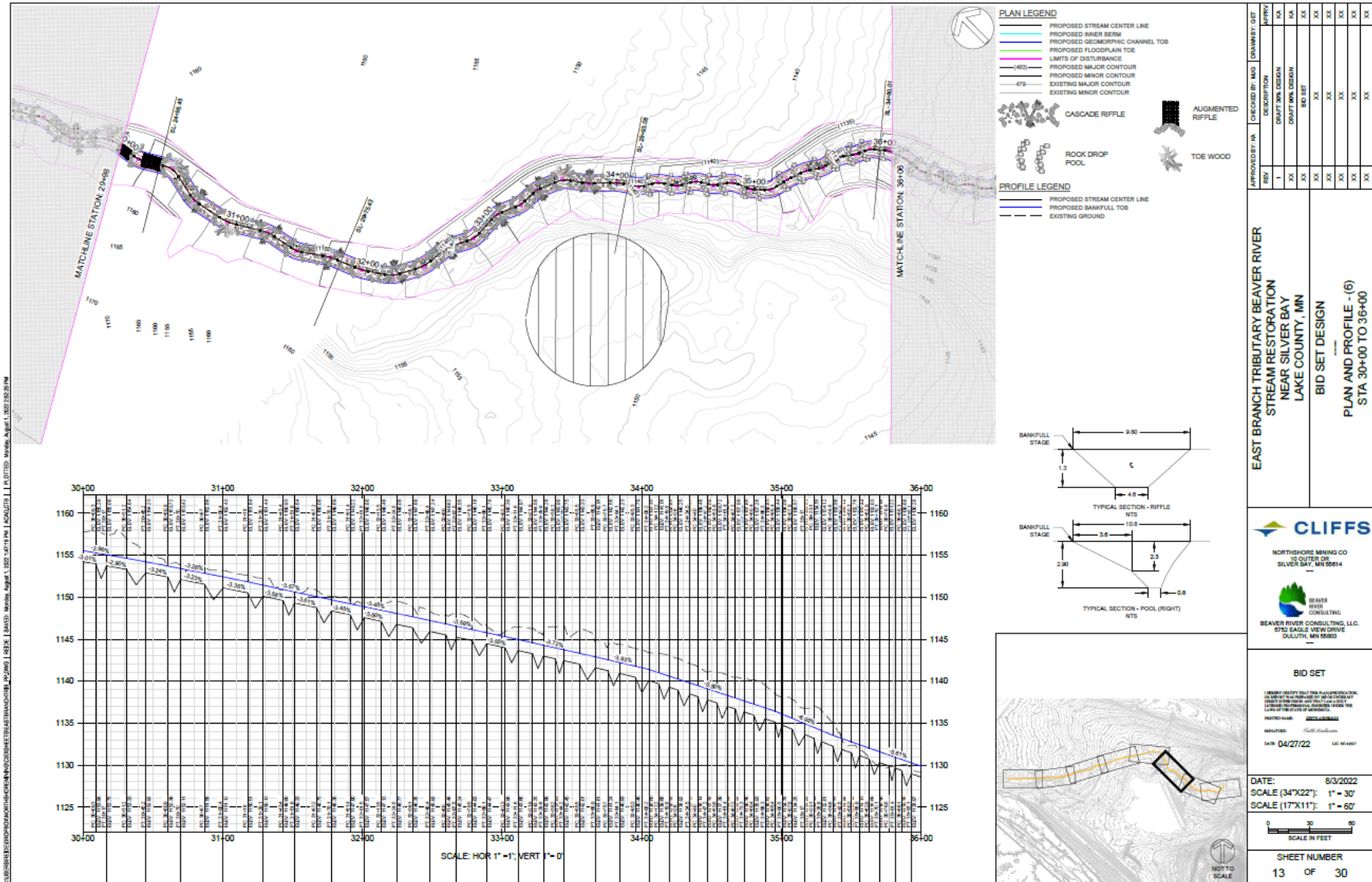
APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 8)



Source: Northshore Mining Intermediate Data Submittal No. 1 (October 3, 2022)

MILE POST 7/STREAM MITIGATION PROJECT EAW

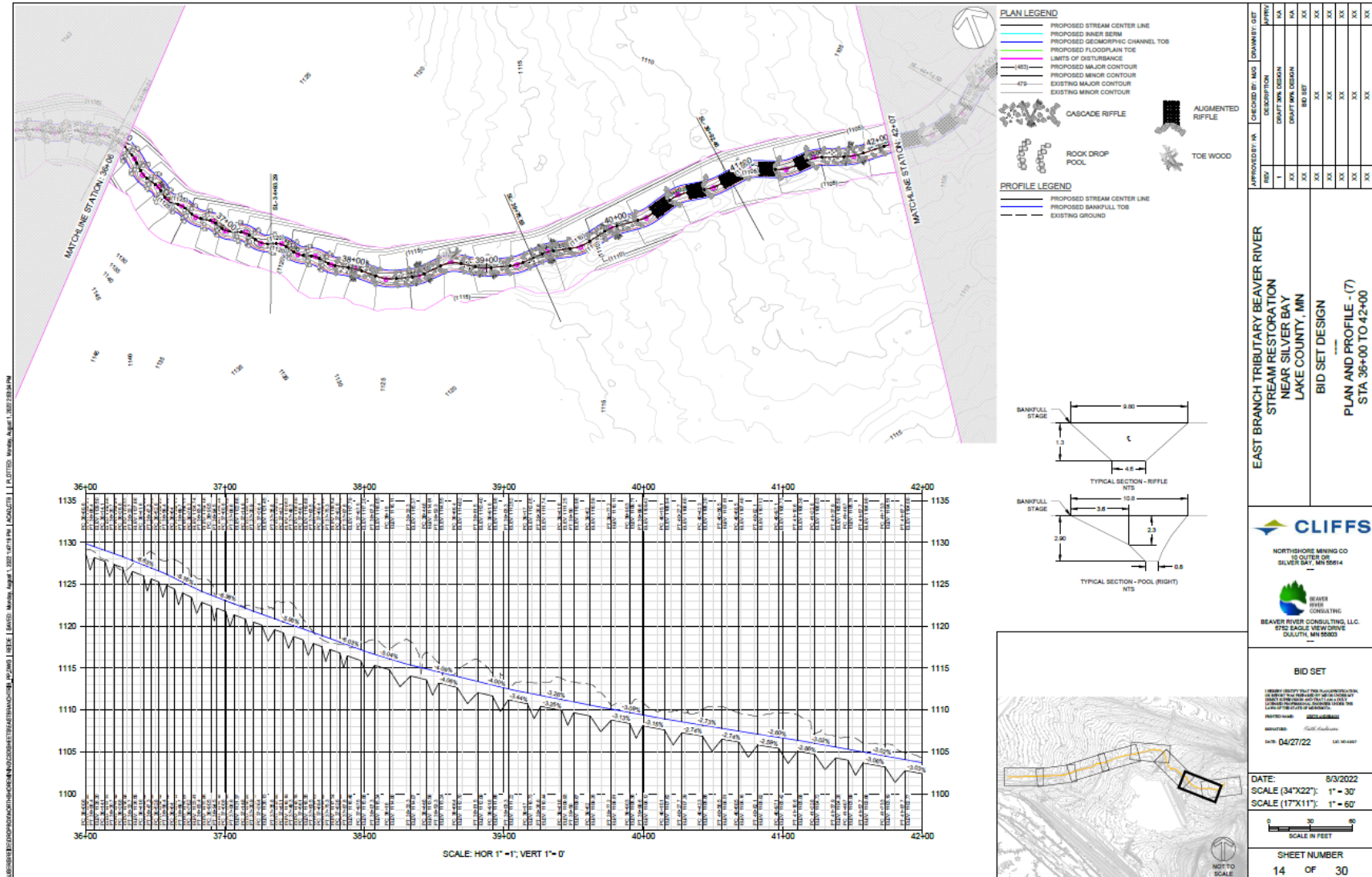
APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 9)



Source: Northshore Mining Intermediate Data Submittal No. 1 (October 3, 2022)

MILE POST 7/STREAM MITIGATION PROJECT EAW

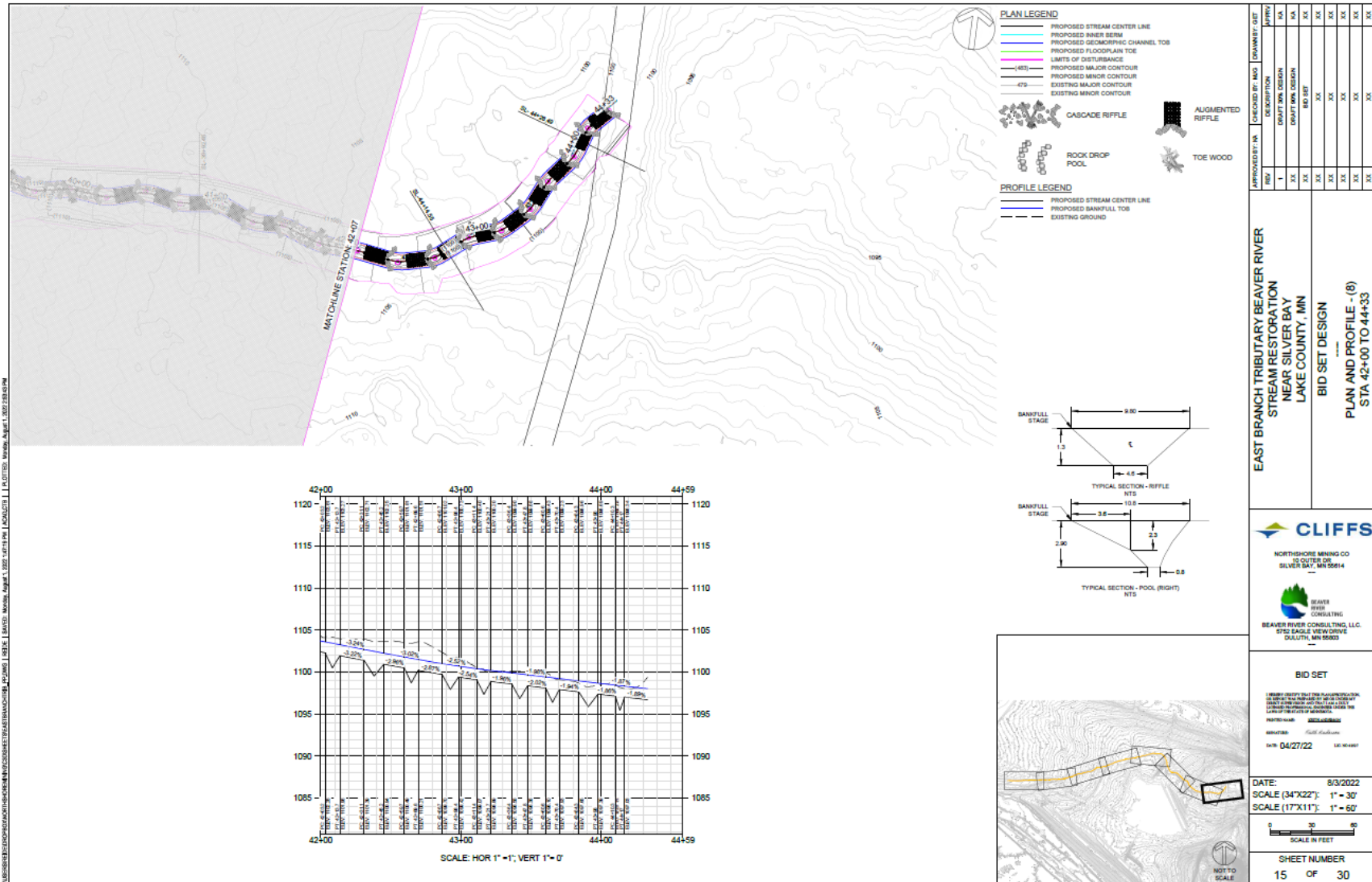
APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 10)



Source: Northshore Mining Intermediate Data Submittal No. 1 (October 3, 2022)

MILE POST 7/STREAM MITIGATION PROJECT EAW

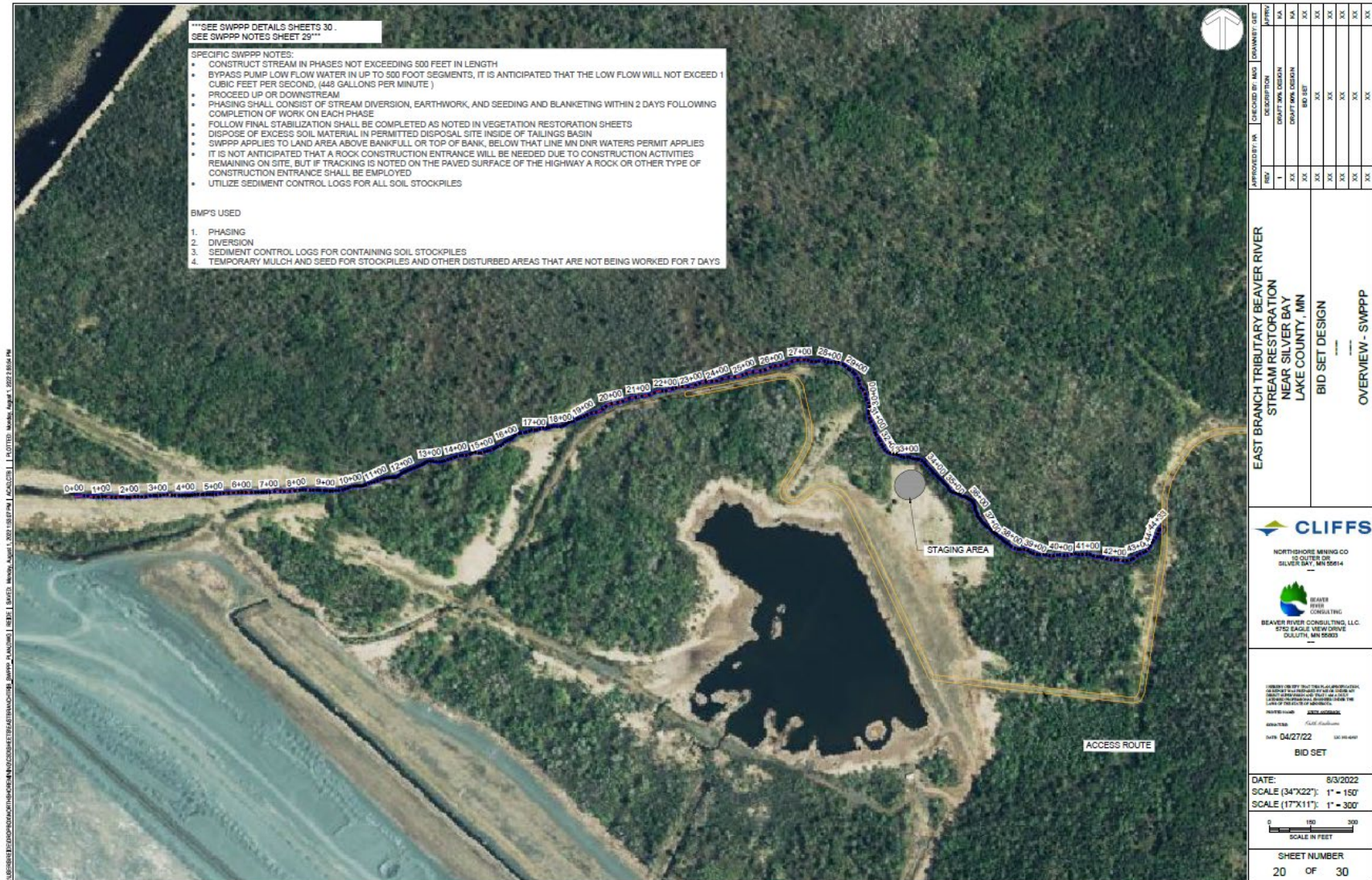
APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 11)



Source: Northshore Mining Intermediate Data Submittal No. 1 (October 3, 2022)

MILE POST 7/STREAM MITIGATION PROJECT EAW

APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 12)



Source: Northshore Mining Intermediate Data Submittal No. 1 (October 3, 2022)

MILE POST 7/STREAM MITIGATION PROJECT EAW

APPENDIX C: Bid Set for East Branch Tributary Beaver River Stream Restoration (Sheet 13)

EAST BRANCH TRIBUTARY STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SWPPP PREPARATION DATE: 07/29/2022 SWPPP CONTACT KEITH ANDERSON, BEAVER RIVER CONSULTING 5752 EAGLE VIEW DRIVE DULUTH, MN 55803 218-626-7450 NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT NUMBER: _____ CHAIN OF RESPONSIBILITY: BY SIGNING BELOW, ALL PARTIES AGREE TO FOLLOWING THE SWPPP SET FORTH. OWNER: _____ PHONE# _____ OPERATOR: _____ PHONE# _____ SWPPP DESIGNER: KEITH ANDERSON, KEITH@BEAVERRIVERCONSULTING.COM PHONE# CELL 218-626-7450 SWPPP INSPECTOR/MANAGER: _____ PHONE# _____ CONSTRUCTION SWPPP DESIGNATE: _____ ESTIMATED PROJECT DATES: PROJECT START DATE: _____ PROJECT END DATE: _____ WATER BODY: EAST BRANCH BEAVER RIVER TRIBUTARY LAKE COUNTY MN DNR WORK RESTRICTIONS: JULY 1-SEPTEMBER 15TH WITHOUT AMENDMENT MIN DNR SPECIAL WATERS, ENSURE ANY EQUIPMENT WORKING IN THE WATER HAS BEEN WASHED AND IS FREE OF EXOTIC SPECIES ASSOCIATED DOCUMENTS: CERTIFICATION OF TRAINING(S) PROJECT PLANS PROJECT DETAILS SWPPP AMENDMENTS CONTRACTOR SHOP DRAWING OF BMPs LOCATIONS AND TIMING: TO BE ATTACHED AT PRECONSTRUCTION MEETING DIVERSION PLANS: TO BE ATTACHED AT PRECONSTRUCTION MEETING DEWATERING PLANS: TO BE ATTACHED AT PRECONSTRUCTION MEETING STAGING PLANS: TO BE ATTACHED AT PRECONSTRUCTION MEETING NPDES PERMIT PUBLIC WATERS WORK PERMIT INSPECTION REPORTS		STORMWATER POLLUTION PREVENTION PLAN FOR THE EAST BRANCH TRIBUTARY STREAM RESTORATION PROJECT PROJECT INFORMATION: THE PROJECT INVOLVES THE RESTORATION OF ONE REACH OF STREAM IN EAST BRANCH TRIBUTARY WATERSHED AREA. FLOODPLAIN EXCAVATION AND CHANNEL REALIGNMENT WILL BE PERFORMED TO ALLOW THE STREAMS TO BE IMPROVED TO A NATURAL CONDITION. PROJECT DESCRIPTION: THIS PROJECT INVOLVES RESTORING HABITAT AND FLOODPLAINS TO PREVIOUSLY DITCHED CHANNELS USING FLUVIAL GEOMORPHOLOGY TECHNIQUES THAT WILL ADD FLOODPLAIN PROCESSES AND REESTABLISH RIFFLE AND POOL MORPHOLOGY THIS ENHANCING FISH HABITAT. THE RESTORATION WILL INCLUDE TOEWOOD BANK STABILIZATION AND COARSE RIFFLE STRUCTURES TO CONTROL THE DESIGN STREAM GRADE. EACH REACH WILL BE COMPLETED ON A PHASING SCHEDULE THAT WILL BE DEVELOPED AT THE PRE-CONSTRUCTION MEETING AND ALONG WITH CORRESPONDING SWPPP AMENDMENTS. THE TOTAL DISTURBED AREA FOR THE PROJECT IS 3.0 ACRES. THE TOTAL AREA OF IMPERVIOUS SURFACE PRE PROJECT: 0 ACRES THE TOTAL AREA OF IMPERVIOUS SURFACE POST PROJECT: 0 ACRES SEE INDEX FOR PLANS, DETAILS, SPECIFICATIONS, PHASING PLAN REGULATORY CONTEXT: SPECIAL OR IMPAIRED WATERS: THIS PROJECT DOES DISCHARGE TO SPECIAL WATERS, EAST BRANCH OF BEAVER RIVER. IN ADDITION TO THE MAIN STEM OF THE BEAVER RIVER WHICH IS AN MPCA IMPAIRED WATER. THIS PROJECTS STORM WATER DISCHARGE IS NOT ANTICIPATED TO IMPACT ANY OF THE FOLLOWING: OUTSTANDING RESOURCE VALUE WATERS, CALCAREOUS FISH, PROPERTIES LISTED BY THE NATIONAL REGISTER OF HISTORIC PLACES OR ARCHAEOLOGICAL SITES AND IS NOT SUBJECT TO ADDITIONAL REGULATIONS DUE TO ANY FORMAL ENVIRONMENTAL REVIEW, ENDANGERED OR THREATENED SPECIES, WETLANDS DELINEATED AND IMPACT IS COORDINATED WITH ARLAY CORPS OF ENGINEERS ALONG WITH THE WETLAND CONSERVATION ACT PANEL. DEPARTMENT OF NATURAL RESOURCES HAS AUTHORITY OF WORK BELOW ORDINARY HIGH WATER LEVEL. PUBLIC WATERS WORK PERMIT SHALL BE OBTAINED AND ADHERED TO. STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IMPLEMENTATION RESPONSIBILITIES: 1. THE OWNER AND CONTRACTOR ARE IDENTIFIED BY THE BID DOCUMENTS. 2. THE CONTRACTOR SHALL VERIFY THAT ALL PERMITS HAVE BEEN OBTAINED. 3. CONTRACTOR SHALL PERFORM SITE INSPECTIONS, RECORD KEEPING AND RECORD RETENTION IN ACCORDANCE WITH ALL PERMITS. 4. CONTRACTOR SHALL INSTALL ALL SEDIMENT CONTROL, BEST-MANAGEMENT-PRACTICES (BMP) AND CONSTRUCTION ENTRANCES PRIOR TO SITE GRADING, EXCAVATION, STOCKPILING OR DISTURBING EXISTING VEGETATIVE COVER. 5. CONTRACTOR SHALL PERFORM SITE GRADING, EXCAVATION, STOCKPILING WORK IN ACCORDANCE WITH SWPPP. 6. CONTRACTOR SHALL INSTALL, INSPECT, MONITOR AND MAINTAIN TEMPORARY AND PERMANENT EROSION CONTROL BMP AS SHOWN ON PLANS, CONTINUOUSLY DURING DURATION OF WORK. 7. CONTRACTOR SHALL INITIATE SOIL STABILIZATION IMMEDIATELY AND STABILIZE ALL EXPOSED SOILS WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. 8. CONTRACTOR SHALL REPLACE OR REPAIR EROSION CONTROL AND SEDIMENT CONTROL BMPs IMMEDIATELY IF IT IS FOUND THAT THEY ARE NOT FUNCTIONING PROPERLY. 9. CONTRACTOR SHALL PERFORM SITE RESTORATION ACTIVITIES FOR PERMANENT VEGETATION ESTABLISHMENT. 10. CERTIFIED SWPPP INSPECTOR/MANAGER IDENTIFIED AT THE PRE-CONSTRUCTION MEETING SHALL INSPECT THE ENTIRE PROJECT AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. 11. INSPECTIONS SHALL BE CONDUCTED WITH THE PROVIDED SWPPP INSPECTION WORKSHEET. 12. REDUNDANT BMP SHALL BE INITIATED IF FREQUENT FAILURE OR EXCESSIVE MAINTENANCE IS NOTED AND SWPPP WILL BE AMENDED TO THAT EFFECT. 13. CONTRACTOR SHALL REMOVE SEDIMENT CONTROL DEVICES AT COMPLETION OF PROJECT AND SUBMIT A NOTICE OF TERMINATION TO MINNESOTA POLLUTION CONTROL AGENCY. 14. CONTRACTOR SHALL ENSURE THAT THE PUBLIC WATERS PERMIT STIPULATIONS ARE FOLLOWED. RECORD RETENTION 1. SWPPP RECORDS SHOULD BE MAINTAINED BY OWNER FOR THREE YEARS AFTER FINAL STABILIZATION. 2. CHANGES MADE TO SWPPP PLAN IMPLEMENTATION SHALL BE RECORDED AS SWPPP AMENDMENTS WITHIN 24 HOURS. 3. SWPPP AMENDMENTS SHALL BE ACCOMPANIED BY NOTIFICATION OF CHANGES TO SWPPP INSPECTOR/MANAGER. 4. A COPY OF SWPPP PLAN SHALL BE MAINTAINED ON SITE OR IN CONSTRUCTION VEHICLE DURING ACTIVE CONSTRUCTION. 5. INSPECTIONS WILL BE RECORDED WITH 24 HOURS IN WRITING AND RETAINED WITH SWPPP RECORD IN A DESIGNATED LOCATION. CONSTRUCTION ACTIVITY FIELD REQUIREMENTS: A. ALL FIELD REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SWPPP. 1. THE CONTRACTOR MUST IMPLEMENT SWPPP AND PROVIDE BMPs IDENTIFIED IN THE SWPPP IN AN APPROPRIATE AND FUNCTIONAL MANNER. 2. THE CONTRACTOR SHALL RESPOND TO CHANGING SITE CONDITIONS AND IMPLEMENT/SUPPLEMENT EROSION PREVENTION AND SEDIMENT CONTROL MEASURES UTILIZED TO PROVIDE ADEQUATE PROTECTION OF DISTURBED SOILS AND ADEQUATE PROTECTION OF SEDIMENT TRANSPORT OFFSITE. AT A MINIMUM, THE FOLLOWING STORM WATER POLLUTION PREVENTION CONSTRUCTION FIELD REQUIREMENTS SHALL BE FURNISHED BY THE CONTRACTOR. B. EROSION PREVENTION PRACTICES 1. THE CONTRACTOR SHALL ATTEMPT TO PHASE ALL WORK TO MINIMIZE EROSION AND MAINTAIN VEGETATION COVER TO THE EXTENT POSSIBLE. 2. ALL EXPOSED SOILS WITH PERIMETER CONTROL BMPs MUST BE STABILIZED NO LATER THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, INCLUDING STOCKPILES WITH SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS. 3. TEMPORARY OR PERMANENT ENERGY DISSIPATION AT PIPE OUTLETS MUST BE PROVIDED WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER. 5. TOPSOIL WILL BE SALVAGED AND STOCKPILED FOR REAPPLICATION SO AS TO ENSURE MAXIMUM GROWTH POTENTIAL.	C. SEDIMENT CONTROL PRACTICES CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING SEDIMENT CONTROL PRACTICES: 1. DUE TO THE LOCATION AND UNIQUE NATURE OF THE PROJECT WORKING IN THE STREAMS, DOWNRADIANT SEDIMENT CONTROL IS NOT FEASIBLE. ALL EFFORTS WILL BE MADE TO CONTROL SEDIMENT BY PHASING THE STREAM PROJECT AS NOTED IN THE PLANS AND STABILIZING AND DIVERTING THE WATER DURING CONSTRUCTION. 2. TIMING AND INSTALLATION OF SEDIMENT CONTROL DEVICES CAN BE ADJUSTED BY CONTRACTOR TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING AND GRUBBING OR VEHICLE PASSAGE. ANY SHORT TERM ACTIVITY MUST BE COMPLETED AS QUICKLY AS POSSIBLE AND THE SEDIMENT CONTROL PRACTICES MUST BE INSTALLED IMMEDIATELY AFTER THE ACTIVITY IS COMPLETED AND IN ALL CASES PRIOR TO THE NEXT PRECIPITATION EVENT. 3. TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE/STOP OF SOIL BERMS OR OTHER EFFECTIVE SEDIMENT CONTROL. SOIL STOCKPILES SHALL NOT BE PLACED WITHIN SURFACE WATERS OR STORMWATER CONVEYANCES. ALL STOCKPILES THAT WILL NOT BE DISTURBED FOR ONE MONTH OR LONGER SHALL BE PROTECTED FROM EROSION BY CONTRACTOR USING A COVER OF MULCH, EROSION CONTROL MATS OR PLASTIC SHEETING. 4. CONTRACTOR SHALL IMPLEMENT MEASURES TO CONTROL VEHICLE TRACKING OFFSITE IF NECESSARY. D. DEWATERING AND BASIN DRAINING (IF APPLICABLE) 1. CONTRACTORS DEWATERING ACTIVITIES THAT HAVE SEDIMENT-LADEN DISCHARGE MUST DISCHARGE INTO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN OR THROUGH SOME FORM OF BMP, SUCH AS A FILTER BAG, BY CONTRACTOR TO LIMIT SEDIMENT FROM LEAVING THE SITE TO ENSURE EFFLUENT WATER IS FREE OF SEDIMENT. I. DEWATERING PLANS SHALL BE FURNISHED TO SWPPP PERSONNEL AT TIME OF CONSTRUCTION. II. DEWATERING DISCHARGE POINTS MUST BE DISPERSED OVER PLYWOOD, NATURAL RIPRAP, SANDBAGS, PLASTIC SHEETING, OR OTHER ACCEPTED ENERGY DISSIPATING MEASURES IN A NON-EROSIVE MANNER. III. DEWATERING BMPs SHALL BE INSPECTED BY THE CONTRACTOR PERIODICALLY DAILY AND IMMEDIATELY MAINTAINED OR REPAIRED IF SEDIMENT-LADEN WATER IS BEING DISCHARGED. E. SWPPP PERSONNEL SHALL BE RESPONSIBLE FOR PERFORMING THE FOLLOWING INSPECTIONS AND MAINTENANCE: 1. ALL NONFUNCTIONAL BMPs SHALL BE REPAIRED, REPLACED WITHIN 24 HOURS AFTER DISCOVERY. CONTRACTOR SHALL PLACE ANY ADDITIONAL EROSION CONTROL MEASURES DEEMED NECESSARY BY THE ENGINEER WITHIN 24 HOURS OF NOTICE. 2. THE SWPPP INSPECTOR MUST ROUTINELY INSPECT THE SITE ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. 3. ALL SILT MUST BE REMOVED FROM SILT FENCE BY CONTRACTOR WHEN IT REACHES A HEIGHT EQUAL TO ONE-THIRD OF THE HEIGHT OF THE SILT FENCE. CONTRACTOR SHALL REPAIR SILT FENCE THAT IS NONFUNCTIONAL WITHIN 24 HOURS OF DISCOVERY. 4. INSPECTIONS CAN BE SUSPENDED DUE TO FROZEN GROUND CONDITIONS UNTIL FIRST RUNOFF OCCURS OR CONSTRUCTION ACTIVITIES RESUME. F. POLLUTION PREVENTION MEASURES CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE FOLLOWING POLLUTION MANAGEMENT MEASURES ON THE SITE: 1. SOLID WASTE: COLLECTED SEDIMENT, ASPHALT, CONCRETE MILLINGS, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION AND DISOLUTION DEBRIS, AND OTHER WASTES MUST BE DISPOSED OF PROPERLY AND MUST COMPLY WITH MPCA DISPOSAL REQUIREMENTS. 2. HAZARDOUS MATERIAL: HAZARDOUS SUBSTANCES MUST BE STORED IN APPROPRIATE CONTAINERS AND STEPS IMPLEMENTED TO PREVENT SPILLS, LEAKS, AND LACUNAS. 3. ADEQUATE SUPPLIES TO CLEAN UP SPILLS MUST BE AVAILABLE ON SITE. 4. NO VEHICLE DEGREASING ON SITE. G. DIVERSION 1. CONTRACTORS MUST PROVIDE DETAILS ON STREAM DIVERSION AT THE PRECONSTRUCTION MEETING. THIS INCLUDES BUT NOT LIMITED TO PIPE SIZES, PUMP SIZES, DIVERSION CHANNEL SIZE, DIVERSION CHANNEL LOCATIONS, WITH ASSOCIATED DEWATERING PLANS IF APPLICABLE. 2. DIVERSION CAN BE ACHIEVED USING BERRIS, ABANDONED CHANNELS, JERSEY BARRIERS, PIPES, SANDBAG DAMS, PLYWOOD DAMS, OR OTHER METHODS THAT ARE DEEMED APPROPRIATE FOR THE SITE. FINAL STABILIZATION 1. ALL DISTURBED AREAS SHALL BE STABILIZED BY USING COIR MAT, EROSION CONTROL BLANKETS, MULCH, OR HYDROSEED AS PER VEGETATIVE DETAILS SHEETS 2. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED BY SEED, SHRUBS, AND TREES AS SPECIFIED IN PLANS. 3. TEMPORARY SEDIMENT EROSION CONTROL BMPs SHALL BE REMOVED AT PROJECT CLOSEOUT.	<table border="1"><tr><th>APPROVED BY: SWPPP</th><th>APPROVED BY: OWNER</th><th>APPROVED BY: OPERATOR</th><th>APPROVED BY: INSPECTOR/MANAGER</th><th>APPROVED BY: DESIGNER</th><th>APPROVED BY: OTHER</th></tr><tr><td>_____ DATE: 8/3/2022</td><td>_____ DATE: 8/3/2022</td><td>_____ DATE: 8/3/2022</td><td>_____ DATE: 8/3/2022</td><td>_____ DATE: 8/3/2022</td><td>_____ DATE: 8/3/2022</td></tr></table>	APPROVED BY: SWPPP	APPROVED BY: OWNER	APPROVED BY: OPERATOR	APPROVED BY: INSPECTOR/MANAGER	APPROVED BY: DESIGNER	APPROVED BY: OTHER	_____ DATE: 8/3/2022	_____ DATE: 8/3/2022	_____ DATE: 8/3/2022	_____ DATE: 8/3/2022	_____ DATE: 8/3/2022	_____ DATE: 8/3/2022
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Source: Northshore Mining Intermediate Data Submittal No. 1 (October 3, 2022)