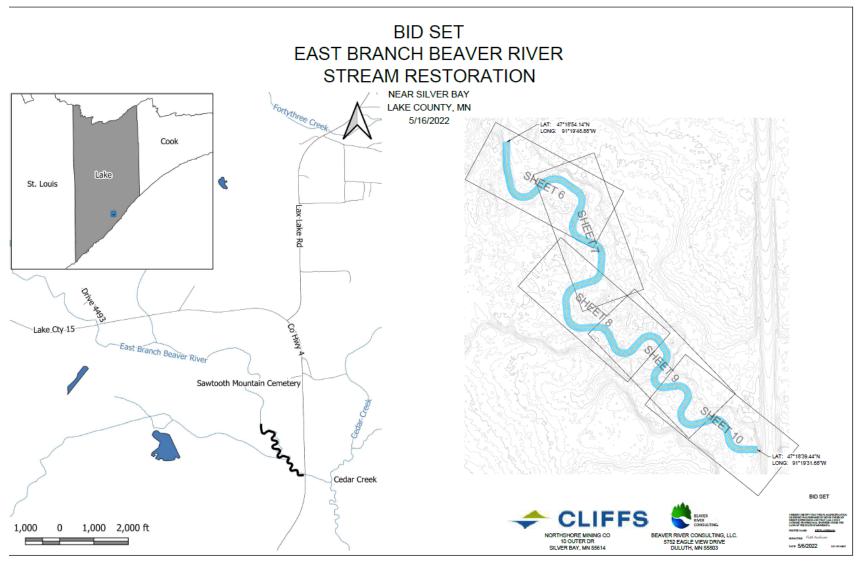
MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX B: Bid Set for East Branch Beaver River Stream Restoration (Sheet 1)



MILE POST 7/STREAM MITIGATION PROJECT EAW

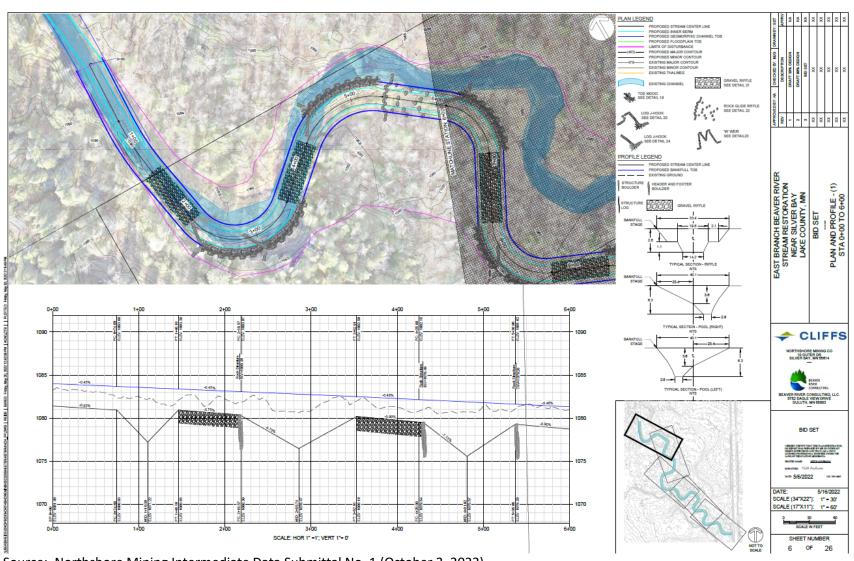
APPENDIX B: Bid Set for East Branch Beaver River Stream Restoration (Sheet 2)



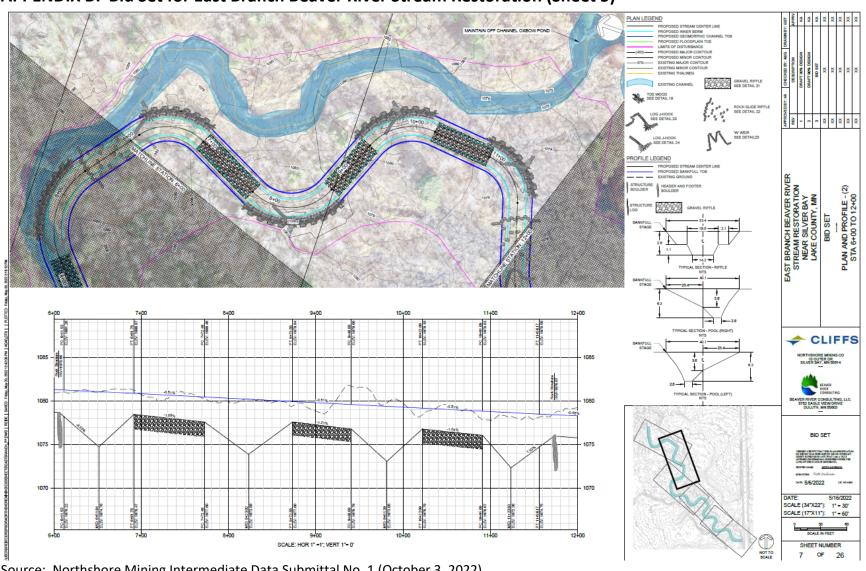
MILE POST 7/STREAM MITIGATION PROJECT EAW
APPENDIX B: Bid Set for East Branch Beaver River Stream Restoration (Sheet 3)



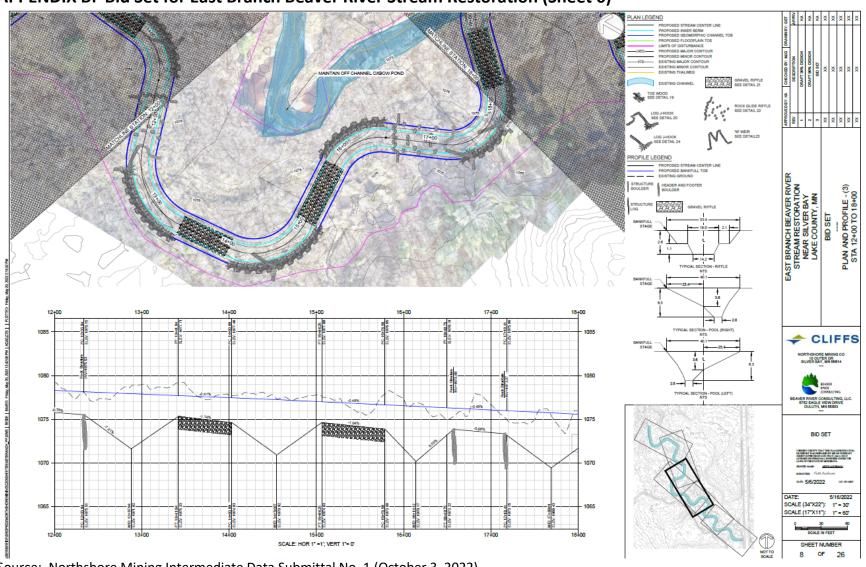
MILE POST 7/STREAM MITIGATION PROJECT EAW **APPENDIX B: Bid Set for East Branch Beaver River Stream Restoration (Sheet 4)**



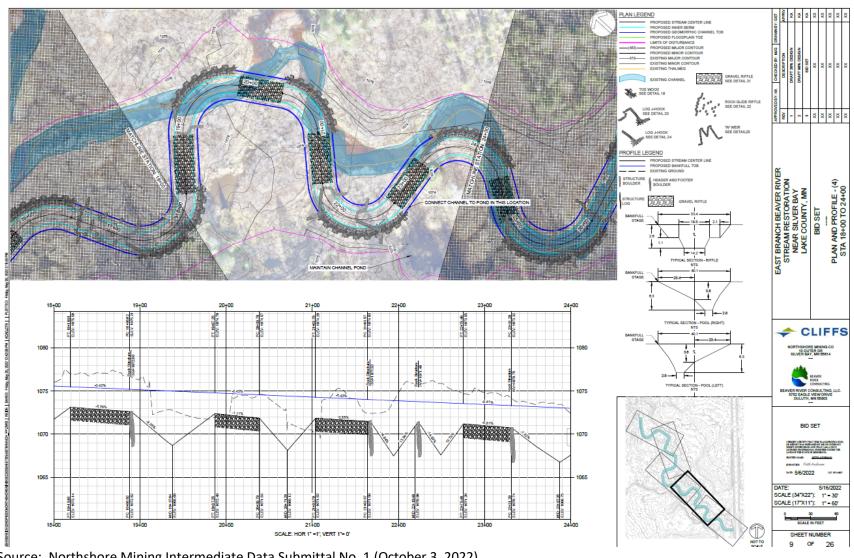
MILE POST 7/STREAM MITIGATION PROJECT EAW **APPENDIX B: Bid Set for East Branch Beaver River Stream Restoration (Sheet 5)**



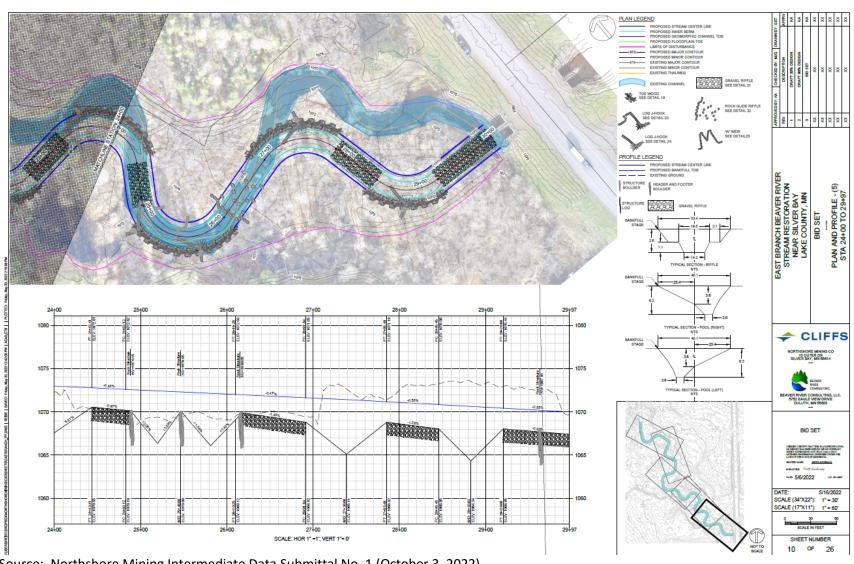
MILE POST 7/STREAM MITIGATION PROJECT EAW **APPENDIX B: Bid Set for East Branch Beaver River Stream Restoration (Sheet 6)**



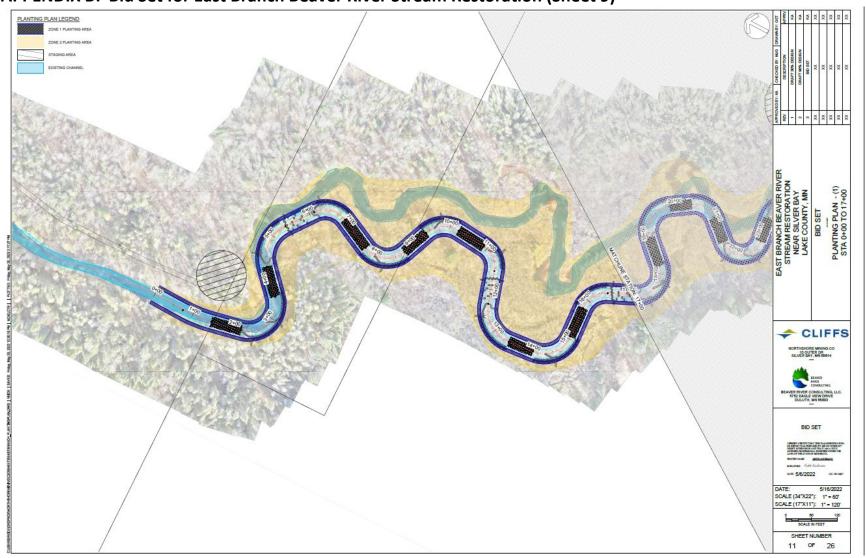
MILE POST 7/STREAM MITIGATION PROJECT EAW **APPENDIX B: Bid Set for East Branch Beaver River Stream Restoration (Sheet 7)**



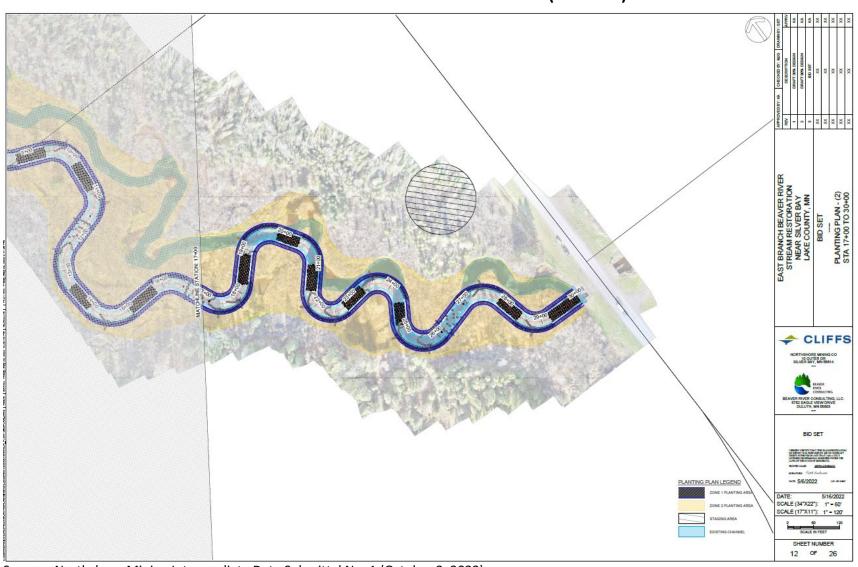
MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX B: Bid Set for East Branch Beaver River Stream Restoration (Sheet 8)



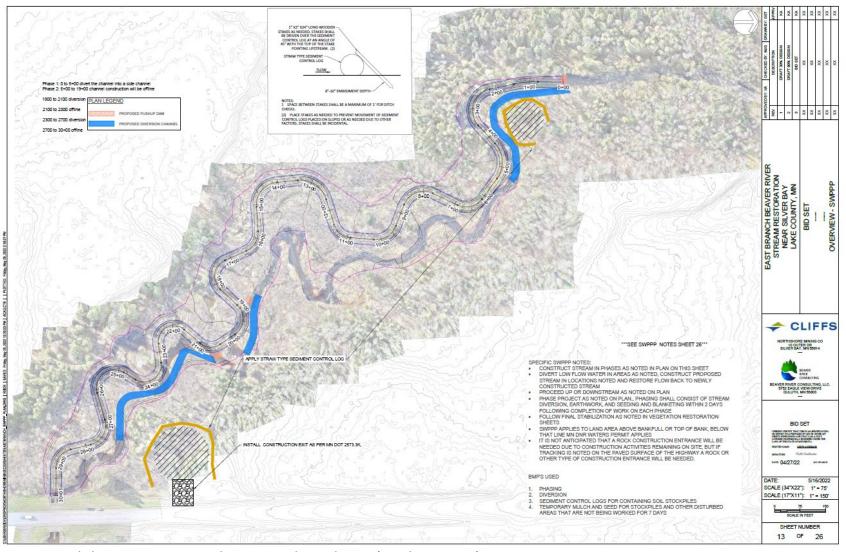
MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX B: Bid Set for East Branch Beaver River Stream Restoration (Sheet 9)



MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX B: Bid Set for East Branch Beaver River Stream Restoration (Sheet 10)



MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX B: Bid Set for East Branch Beaver River Stream Restoration (Sheet 11)



MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX B: Bid Set for East Branch Beaver River Stream Restoration (Sheet 12)

EAST BRANCH BEAVER RIVER STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	STORMWATER POLLUTION PREVENTION PLAN FOR THE EAST BRANCH BEAVER RIVER STREAM RESTORATION PROJECTS		APPROV	≨ 3	××	ž X X
SWPPP PREPARATION DATE: 3/14/2022	PROJECT INFORMATION:	C. SEDIMENT CONTROL PRACTICES	S S S S S S S S S S S S S S S S S S S	П	П	\Box
SWPPP CONTACT KEITH ANDERSON, BEAVER RIVER CONSULTING	THE PROJECT INVOLVES THE RESTORATION OF ONE REACH IN THE EAST BRANCH BEAVER RIVER WATERSHED AREA. RLOODE-AND EXCHARGIN AND CHAMBLE REALISMMENT WILL BE PERFORMED TO ALLOW THE STREAMS TO BE MERCHED TO ALLOW THE STREAMS TO BE	CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING SEDMENT CONTRICT PRACTICES: 1. DUE TO THE LOCATION AND LIQUID HATTRES OF THE PROJECT WORKING IN THE STEEMED, DOWNGRACIENT SECURISE TO CHTECH & NOT PRAISED, LE PROVET BY LE BINGE TO CONTRICE, SCHOWLD THE PHAGMA THE SEDMENT CONTROL & SCHOWLD THE PHAGMA THE SEDMENT CONTROL LE PROVED BY LOCATION AND INSTALLATION OF SEDMENT CONTROL DEVICES OW HE ADJUSTED BY CONTRACTOR TO	NOS DRAVE			
5752 EAGLE VIEW DRIVE	PROJECT DESCRIPTION:	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	OH W	ᇣ,	«I×I×	8 8 8
DULUTH,MN 55803 218-626-7450	THIS PROJECT INVOLVES RESTORING HABITAT AND FLOODPLAINS FROM AN INCISED AND ACTIVELY ERCOING CHANNEL USING FLUVIAL GEOMORPHOLOGY TECHNIQUES THAT WILL ADD FLOODPLAIN PROCESSES AND	INSTALLED IMMEDIATELY AFTER THE ACTIVITY IS COMPLETED AND IN ALL CASES PRIOR TO THE NEXT PRECIPITATION FURNIT.	T 30	8	< × ×	2 × ×
NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT NUMBER:	CHANNEL USING FULL DEURINGHENCH TECHNIQUES THE MILL THE THE RESTORATION MULL INCLUDE TOEMOD BANK STABILIZATION AND COARSE RIFFLE STRUCTURES TO COMITROL THE DESIGN STREAM GRADE, EACH REACH HILL BE COMPLETED ON A PHASING SCHOOLE THAT WILL BE DEVELOPED AT THE PRE-CONSTRUCTION MEETING AND ALONG WITH CORRESPONDING SWPPP AMENDMENTS.	EVENT. 3. TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCEITOP SOIL BERMS OR OTHER EFFECTIVE SEDIMENT CONTROL SOIL STOCKPILES SHALL NOT BE PLACED WITH IN SURFACE WATERS OR STORMATER CONNEYNACES. ALL STOCKPILES SHALL WILL SHOULD BE DISTURBED FOR ONE MONTH OR LONGER SHALL BE PROTECTED FROM BROSION BY CONTRACTOR USING A COVERATOR SHALL IMPLEMENT MEASURES TO CONTROL VENDE THACKING OPERIET IN PLACESARY.	DRAN CHE			
CHAIN OF RESPONSIBILITY:	THE TOTAL DISTURBED ARE FOR THE PROJECT IS 9.5 ACRES. THE TOTAL AREA OF IMPERVIOUS SURFACE PRE PROJECT 10 ACRES THE TOTAL AREA OF IMPERVIOUS SURFACE POST PROJECT, 0 ACRES	D. DEWATERING AND BASIN DRAINING (IF APPLICABLE)	ABU -	m }	ž ž ž	ž ž ž
BY SIGNING BELOW, ALL PARTIES AGREE TO FOLLOWING THE SWPPP SETFORTH.	SEE INDEX FOR PLANS, DETAILS, SPECIFICATIONS, PHASING PLAN	CONTRACTOR'S 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	< -	++		
OWNER:	REGULATORY CONTEXT:	CONTRACTOR TO LIMIT SEDIMENT FROM LEAVING THE SITE TO ENSURE EFFLUENT WATER IS FREE OF SEDIMENT.				
PHONE#:	SPECIAL OR IMPAIRED WATERS: EAST BRANCH BEAVER RIVER IS IDENTIFIED AS A TROUT STREAM AND FLOWS INTO	I. DEWATERING PLANS SHALL BE FURNISHED TO SWPPP PERSONNEL AT TIME OF CONSTRUCTION.				
OPERATOR: PHONE#:	THE MAN STEM OF THE BEAVER RIVER WHICH IS AN MINNESOTA POLLUTION CONTROL AGENCY (MPCA) IMPAIRED WATER.	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.				
SWPPP DESIGNER: KEITH ANDERSON, KEITH@BEAVERRIVERCONSULTING.COM PHONE#: CELL 218-626-7450	THIS PROJECTS STORM WATER DISCHARGE IS NOT ANTICIPATED TO IMPACT ANY OF THE FOLLOWING: OUTSTANDING RESOURCE VALUE WATERS, CALCAREOUS FENS, PROPERTIES LISTED BY THE NATIONAL REGISTER OF HISTORIC	III. DEWATERING BMPS SHALL BE INSPECTED BY THE CONTRACTOR PERIODICALLY DAILY AND IMMEDIATELY MAINTAINED OR REPAIRED IF SEDIMENT-LADEN WATER IS BEING DISCHARGED.	8			
SWPPP INSPECTOR/MANAGER:	PLACES OR ARCHAEOLOGICAL SITES AND IS NOT SUBJECT TO ADDITIONAL REGULATIONS DUE TO ANY FORMAL ENTREMINIONMENTAL REVIEW, ENDANGERED OR THREATENED SPECIES. WETLANDS DELINEATED AND IMPACT IS COORDINATED WITH ARMY CORPS OF ENGINEERS ALONG WITH THE WETLAND CONSERVATION ACT PANEL.	E. SWPPP PERSONNEL SHALL BE RESPONSIBLE FOR PERFORMING THE FOLLOWING INSPECTIONS AND MAINTENANCE:	NO N	_		
PHONE#:	DEPARTMENT OF NATURAL RESOURCES HAS AUTHORITY OF WORK BELOW ORDINARY HIGH WATER LEVEL PUBLIC WATERS WORK PERMIT SHALL BE OBTAINED AND ADHERED TO.	 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 WITH 24 HOURS OF NOTICE. 	T BRANCH BEAVER RIVER TREAM RESTORATION NEAR SILVER BAY	Ž.		9
CONSTRUCTION SWPPP DESIGNATE:	STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IMPLEMENTATION RESPONSIBILITIES:	2. THE SWIPPP INSPECTOR MUST ROUTINELY INSPECT THE SITE ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITH 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS.	\$ D E	ĘΙ	SET	SWP
ESTIMATED PROJECT DATES: PROJECT START DATE: / /	THE OWNER AND CONTRACTOR ARE IDENTIFIED BY THE BID DOCUMENTS.	3. ALL SILT MUST BE REMOVED FROM SILT FENCE BY CONTRACTOR WHEN IT REACHES A HEIGHT EQUAL TO		ੋਂ	S	
PROJECT END DATE: // /	2. CONTRACTOR SHALL VERIFY THAT ALL PERMITS HAVE BEEN OBTAINED.	ONE-THIRD OF THE HEIGHT OF THE SILT FENCE, CONTRACTOR SHALL REPAIR SILT FENCE THAT IS NONFUNCTIONAL WITH 24 HOURS OF DISCOVERY.	유민정	8	요 '	· 🚽
WATER BODY: EAST BRANCH BEAVER RIVER, LAKE COUNTY MN	CONTRACTOR SHALL PERFORM SITE INSPECTIONS, RECORD KEEPING AND RECORD RETENTION IN ACCORDANCE WITH ALL PERMITS.	 INSPECTIONS CAN BE SUSPENDED DUE TO FROZEN GROUND CONDITIONS UNTIL FIRST RUNOFF OCCURS OR CONSTRUCTION ACTIVITIES RESUME. 	N N N	찦		DETAIL
DNR WORK RESTRICTIONS: JULY 1-SEPTEMBER 15TH WITHOUT AMENDMENT	4. CONTRACTOR SHALL INSTALL ALL SEDIMENT CONTROL BEST-MANAGEMENT-PRACTICES (BMP) AND CONTRUCTION ENTRANCES PRIOR TO SITE GRADING, EXCAVATION, STOCKPILING OR DISTURBING EXISTING VEGETATIVE COVER.	F. POLLUTION PREVENTION MEASURES	E E	\$		
MN DNR SDECIAL WATERS ENSURE ANY FOLIDMENT WORKING IN THE WATER HAS BEEN	 CONTRACTOR SHALL PERFORM SITE GRADING, EXCAVATION, STOCKPILING WORK IN ACCORDANCE WITH SWPPP. CONTRACTOR SHALL INSTALL, INSPECT, MONITOR AND MAINTAIN TEMPORARY AND PERMANENT EROSION 	CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE FOLLOWING POLLUTION MANAGEMENT MEASURES ON THE SITE:	AST			
WASHED AND IS FREE OF EXOTIC SPECIES	CONTROL BMP AS SHOWN ON PLANS, COMMINUOUSLY DURING DURATION OF WORK. 7. CONTRACTOR SHALL INJUTIES SOLD L'ATBELLATION MEMOLETALLY AND STREAMEN LE SPOSED SOLIS WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORABLY OR PERMANENTLY OFFICE TO SHALL REPLACE OR REPLASE RESIDENCY OF ONTROL BMPS IMMEDIATELY IF IT IS FOUND THAT THEY ARE NOT FUNCTIONING PROPERLY. 9. CONTRACTOR SHALL REPLACE OR SITE RESIDENCY ON ACTIVITIES OR PERMANENT VISIGETATION ESTABLISHMENT. 10. CERTIFIED SUPPP INSECTORIAMMORE IDENTIFIED AT THE PRECONSTRUCTION MEETING SHALL REPORT HE PRIME PROJECT AT LENGT OWER EVENT SCHEMY (1) AND TO LINEAR OFFICE CONSTRUCTION AND WITHIN A HOURS	1. SOLID WASTE: COLLECTED SECIMENT, ASPAULT, CONCRETE MILLINOS, FLOATIND DEBRIS, PAPER, PLASTO, PARRIC, CONSTRUCTION AND DEBROACTION DEBRIS AND OTHER WASTES MUST BE GISPOED OF PROPERTY AND MAST COMEY, WITH MEAD DISPOSAL REQUIREMENTS. 2. HACARDOUG MATERIA: HACADOUG SUBSTANCES MUST BE STORED IN APPROPRIATE CONTAINERS AND STEPS INFERENTED TO PRECENT SPILLS, LEWIS, AND UNDOLLING. 3. HACADOUG DEBROACH SPILLS, LEWIS, AND UNDOLLING. 4. NO VEHICLE DEGRESSION ON SITE. 5. OVERSION. 6. DIVERSION. 6. DIVERSION.	Ā			
	11. INSPECTIONS SHALL BE CONDUCTED WITH THE PROVIDED SWPPP INSPECTION WORKSHEET.	1. CONTRACTORS MUST PROVIDE DETAILS ON STREAM DIVERSION AT THE PRECONSTRUCTION MEETING. THIS				
	12. REDUNDANT BAP BHALL BE INSTALLED IF FREQUENT FALURE OR EXCESSIVE MAINTENANCE IS NOTED AND SMPPP WILL BE AIRWIDED TO THAT EFFECT. 13. CONTRACTOR SHALL REMOVE SEDMENT CONTROL DEVICES AT COMPLETION OF PROJECT AND SUBMIT A NOTICE OF TERMANDION TO NUMBERSTOR POLILITION CONTROL AGENCY.	INCLUDES BUT NOT LIMITED TO: PIPE SIZES, PLMP SIZES, DIVERSION CHANNEL SIZE, DIVERSION CHANNEL LOCATIONS, WITH ASSOCIATED DEWINTERING PLANS IF APPLICABLE. 2. DIVERSION CAN BE ACHIEVED USING SERMS, ASANDONED CHANNELS, JERSEY BARRIERS, PIPES, SANDBAG DAMS, PLYWOOD DAMS, OR OTHER METHODOS THAT ME DEFINED APPROPRIATE FOR THE SITE.	CLIFFS NORTHISHORE MINING CO			
	14. CONTRACTOR SHALL ENSURE THAT THE PUBLIC WATERS PERMIT STIPULATIONS ARE FOLLOWED.	FINAL STABILIZATION	SILVER BAY, MN 55614			
	RECORD RETENTION: 1. SWPPP RECORDS SHOULD BE MAINTAINED BY OWNER FOR THREE YEARS AFTER FINAL STABILIZATION.	ALL DISTURBED AREAS SHALL BE STABILIZED BY USING COIR MAT, EROSION CONTROL BLANKETS, MULCH, OR HYDROSEEDED AS PER VEGETATIVE DETAILS SHEETS		A	WE8	
	 CHANGES MADE TO SWPPP PLAN IMPLEMENTATION SHALL BE RECORDED AS SWPPP AMENDMENTS WITH 24 HOURS. 	ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED BY SEED, SHRUBS, AND TREES AS SPECIFIED IN PLANS.	\	R/A	KATIK KER MEDUTING	, [
	1. SMPPP AMENDMENTS SHALL BE ACCOMPANIED BY NOTHICATION OF CHANGES TO SMPPP INSPECTORAMANGER. 1. A COPY OF SMPP PLAN SHALL BE AMMITTANED ON SITE OR IN CONSTITUCTION VEHICLE QUIRING ACTIVE CONSTITUCTION. CONSTITUCTION. 1. SMPPP AMENDMENT OF SMPPP AMENDMENT O	3. TEMPORARY SEDIMENT EROSION CONTROL BMPS SHALL BE REMOVED AT PROJECT CLOSEOUT.	BEAVER RIVER CONSULTING, LLC. 5752 EAGLE VIEW DRIVE DULUTH, MN 55803			
	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 A APPROPRIATE.		BID SET			
	AND RINGTONIA MANNER. 2. THE CONTRATOR SHALL RESPOND TO CHANGING SITE CONDITIONS AND IMPLEMENT/SUPPLEMENT EROSION PREVENTION AND SEQUENT CONTROL MEASURES UTLICED TO PROVIDE ADEQUATE PROTOTION OF DISTURBED SIGLS MOX DECOUNTE PREVENTION OF SEQUENT THREPORT OF FAIR AT A MINIMAL THE POLLOWING STORM WATER POLLUTION PREVENTION CONSTRUCTION PIELD REQUIREMENTS SHALL BE FURNISHED BY THE CONTRACTOR.		I REGION CONTRY THAT THE RANGEMENT OF TIME, OR SERVED YOU FROM THE PROPERTY OF THE REGION OF THE PROPERTY OF THE REGION OF THE PROPERTY OF THE REGION OF THE PROPERTY OF THE P			
ASSOCIATED DOCUMENTS: CERTIFICATION OF TRAINING(S)	B. EROSION PREVENTION PRACTICES		™ 5A	/2022		E-10120
PROJECT PLANS PROJECT DETAILS	1. THE CONTRACTOR SHALL ATTEMPT TO PHASE ALL WORK TO MINIMIZE EROSION AND MAINTAIN VEGETATION		DATE:		5/16/2	/2022
SWPPP AMENDMENTS	COVER TO THE EXTENT POSSIBLE. 2. ALL EXPOSED SOLLS WITH PERIMETER CONTROL BMPS MUST BE STABLIZED NO LATER THAN 7 DAYS AFTER THE					
CONTRACTOR SHOP DRAWING OF BMPS LOCATIONS AND TIMING: TO BE ATTACHED AT PRECONSTRUCTION MEETING	CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, INCLUDING STOCKPILES WITH SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS.		 			\dashv
DIVERSION PLANS: TO BE ATTACHED AT PRECONSTRUCTION MEETING DEWATERING PLANS: TO BE ATTACHED AT PRECONSTRUCTION MEETING	TEMPORARY OR PERMANENT ENERGY DISSIPATION AT PIPE OUTLETS MUST BE PROVIDED WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER. TOPSOL WILL BE SALVAGED AND STOCKPILED FOR REAPPLICATION SO AS TO ENSURE MAXIMUM GROWTH.			NTS	3	
STAGING PLANS: TO BE ATTACHED AT PRECONSTRUCTION MEETING NPDES PERMIT	POTENTIAL		SHE	ET NI	JMBER	
PUBLIC WATERS WORK PERMIT INSPECTION REPORTS			l	OF		- 1
						-