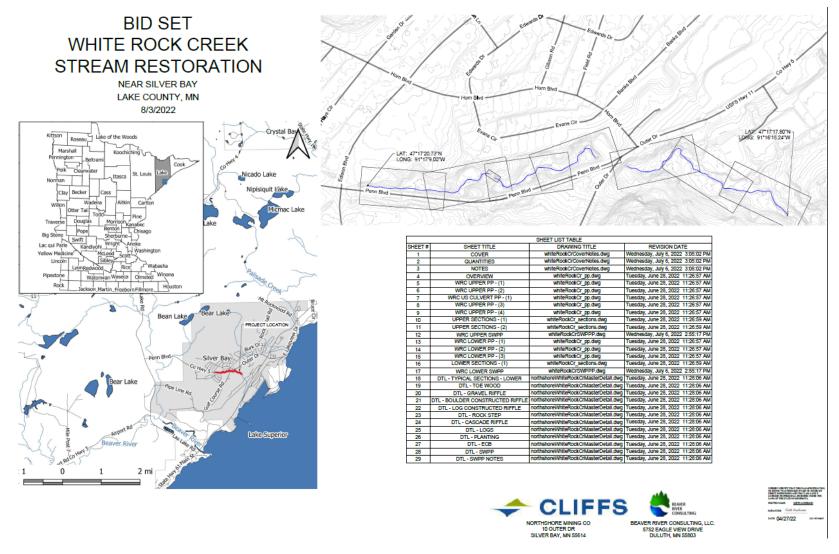
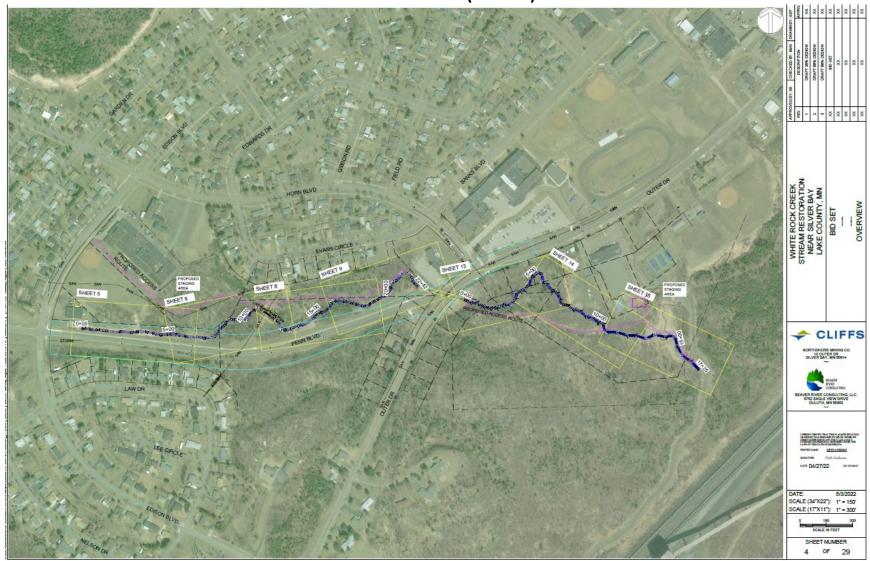
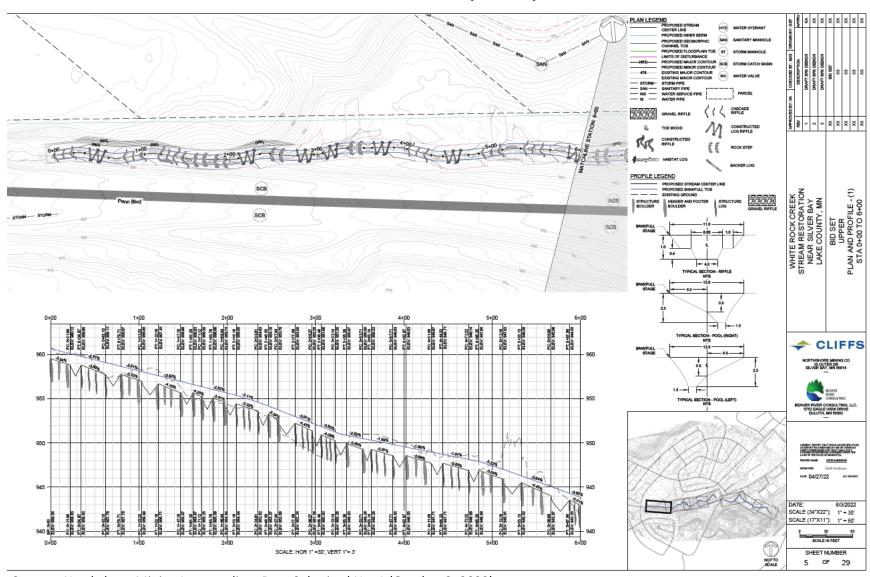
MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX E: Bid Set for White Rock Creek Stream Restoration (Sheet1)



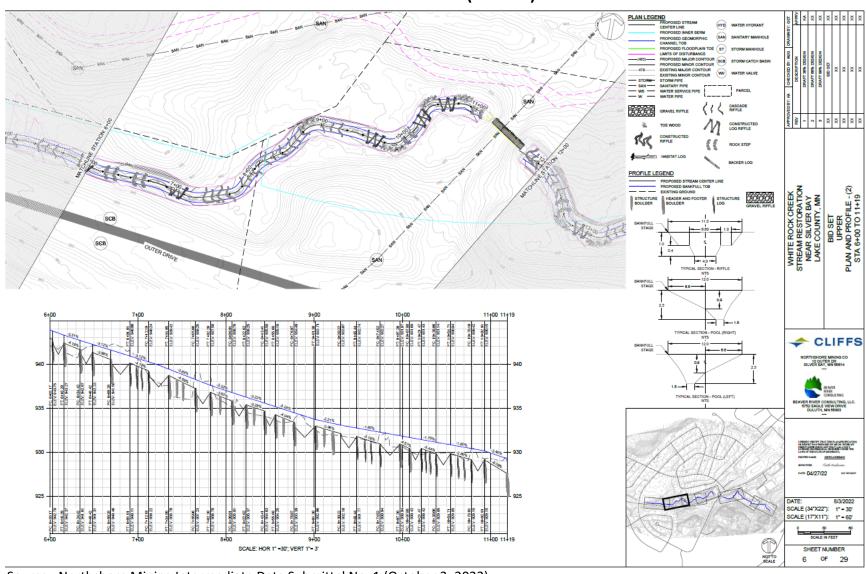
MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 2)



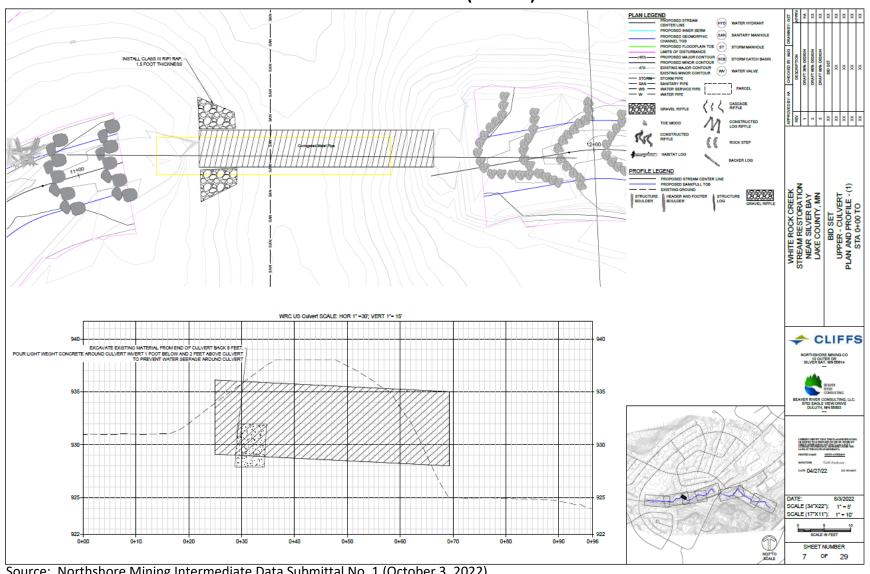
MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 3)



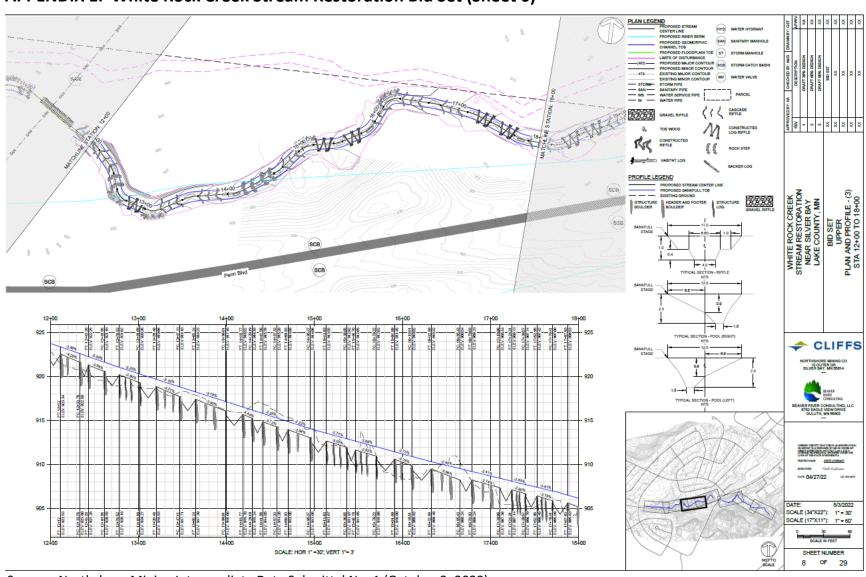
MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 4)



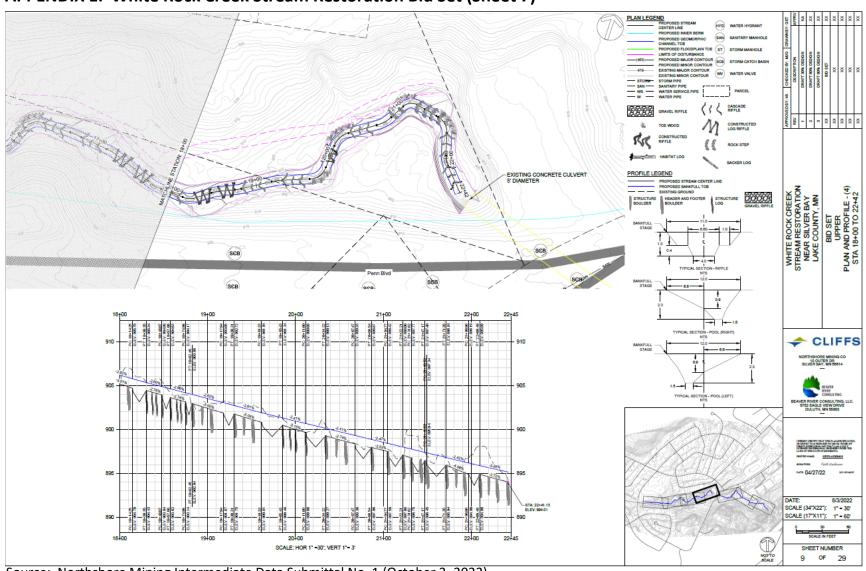
MILE POST 7/STREAM MITIGATION PROJECT EAW **APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 5)**



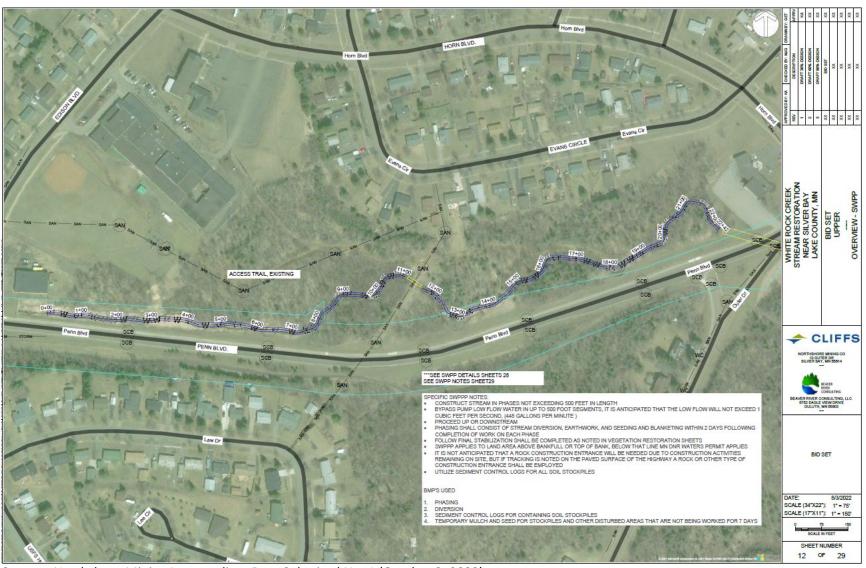
MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 6)



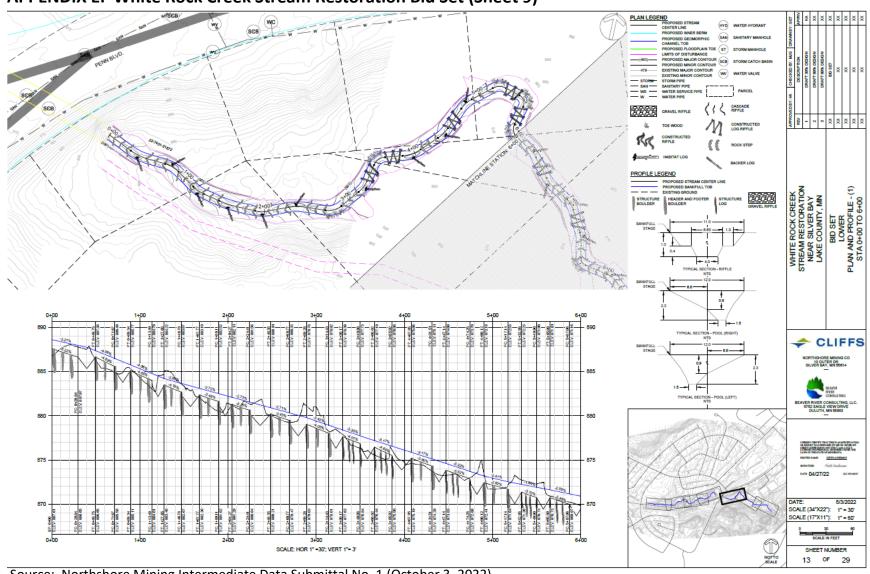
MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 7)



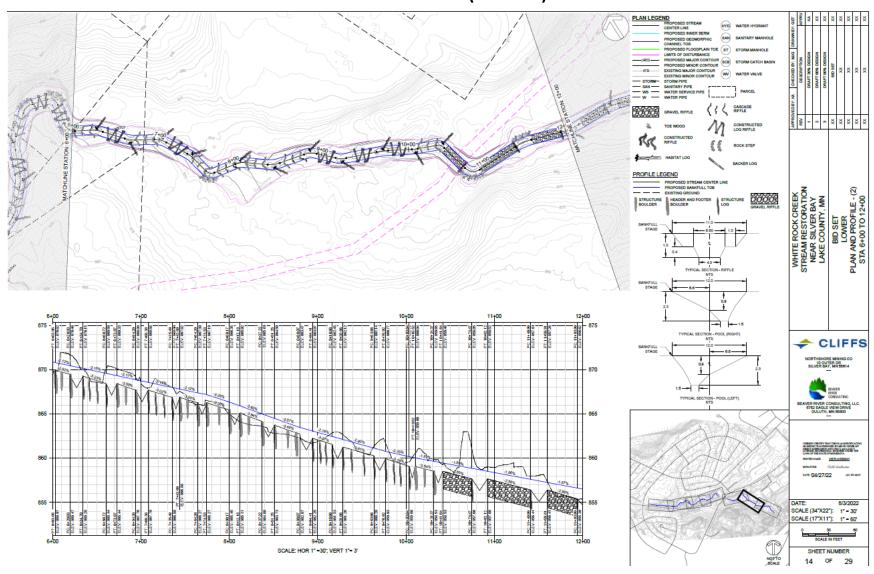
MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 8)



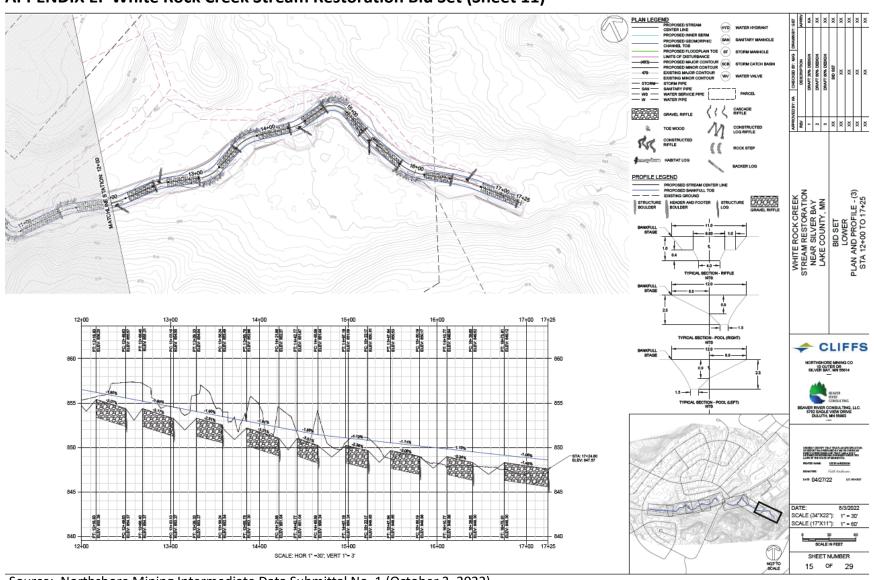
MILE POST 7/STREAM MITIGATION PROJECT EAW **APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 9)**



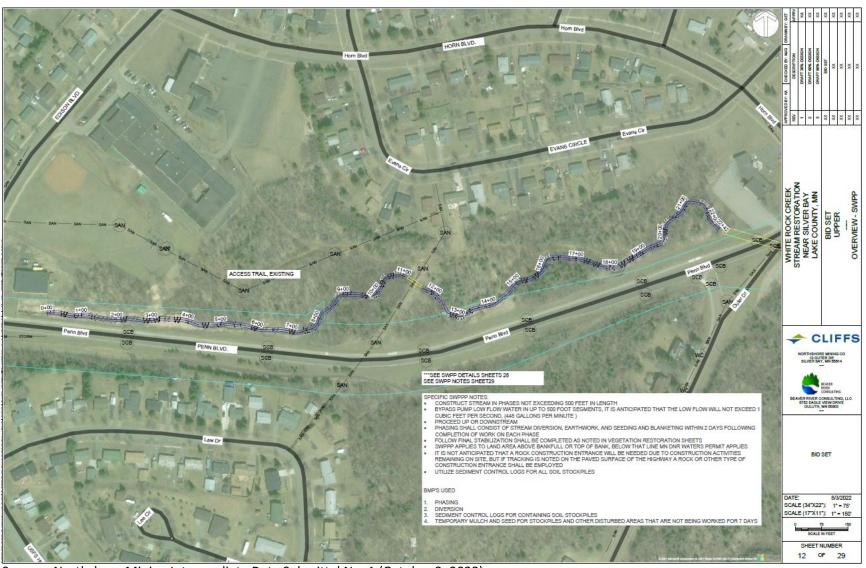
MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 10)



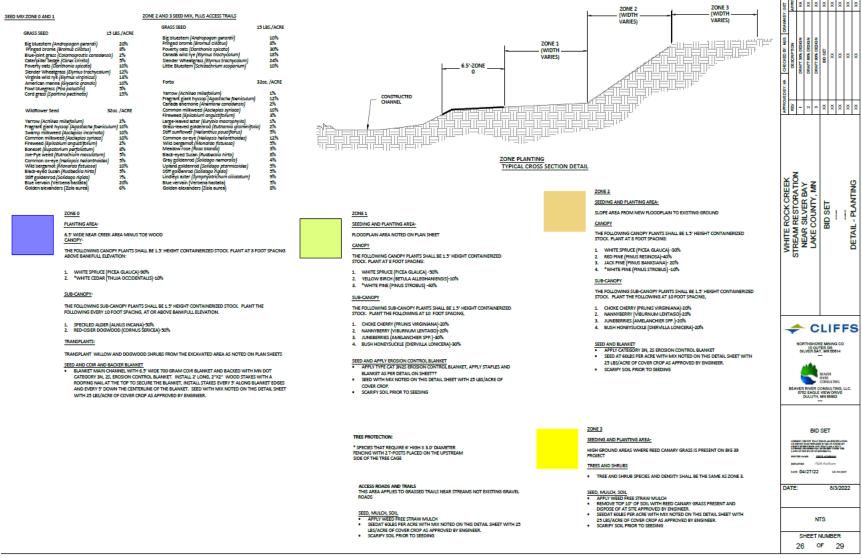
MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 11)



MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 12)



MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 13)



MILE POST 7/STREAM MITIGATION PROJECT EAW APPENDIX E: White Rock Creek Stream Restoration Bid Set (Sheet 14)

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WHITE ROCK CREEK STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	STORMWATER POLLUTION PREVENTION PLAN FOR THE WHITE ROCK CREEK STREAM RESTORATION PROJECTS	C. SEDIMENT CONTROL PRACTICES	APPRV KA XX	××××
SWPPP PREPARATION DATE:	PROJECT INFORMATION:	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, DOWNGRADIENT SEDIMENT CONTROL IS NOT FEASING THE ALL SEPORTS WILL BE MADE TO CONTROL SEDIMENT BY PHASING THE	X B	
	THE PROJECT INVOLVES THE RESTORATION OF TWO REACHES OF STREAM IN WHITE ROCK CREEK STREAM AREA.	STREAM PROJECT AS NOTED IN THE PLANS AND STABILIZING AND DIVERTING THE WATER DURING CONSTRUCTION.	DISAM	
SWPPP CONTACT	FLOODPLAIN EXCAVATION AND CHANNEL REALIGNMENT WILL BE PERFORMED TO ALLOW THE STREAMS TO BE IMPROVED TO A NATURAL CONDITION.	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	8 8 8 8	
KEITH ANDERSON, BEAVER RIVER CONSULTING 5752 EAGLE VIEW DRIVE	PROJECT DESCRIPTION:	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.	PTION PTION	b
DULUTH,MN 55803 218-626-7450	THIS PROJECT INVOLVES RESTORING HABITAT AND FLOOD PLAINS TO PREVIOUSLY DITCHED CHANNELS USING FLUVIAL GEOMORPHOLOGY TECHNIQUES THAT WILL ADD FLOODPLAIN PROCESSES AND RESSTABLISH RIFFLE AND	2. TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE/TOP SOIL BERMS OR OTHER EFFECTIVE SEDIMENT CONTROL. SOIL STOCKPILES SHALL NOT BE PLACED WITH IN SURFACE WATERS OR STORMWATER CONVEYANCES.	T 30%	8 8 8 8
210-20-1-30	FLUVIAL GEOMORPHOLOGY TECHNOLOGS THAT WILL TAN DEFLOCATION PROCESSES AND NEESTABLISH RIFFLE AND POOL MORPHOLOGY THUS ENHANGING RISH HOLTT. THE RESTORTION WILL INCLUDE TOSWINGO BANK STABLIZATION AND CARSE RIFFLE STRUCTURES TO CONTROL THE DESIGN STEED OR A FEACH WILL BE COMPLETED ON A PHASING SCHEDULE THAT WILL BE DEVELOPED AT THE PRE-CONSTRUCTION MEETING, AND ALONG	CONTROC, SOLD STORPILES SHALL NOT SE PLACED WITH IN SURFACE WATERS OR STORMWATER CONVEYANCES. ALL STOCKPLES THAT WILL NOT SE DISTURSED FOR ONE MONTH OR LONGER SHALL SE PROTOCTED FROM EROSION BY CONTRACTOR USING A COVER OF MULCH, EROSION CONTROL MATS OR PLASTIC SHEETING. 4. CONTRACTOR SHALL IMPLIENT MEASURES TO CONTROL VEHICLE TRACKING OFFSITE IF NECESSARY.	DRAF DRAF	
NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT NUMBER:	WITH CORRESPONDING SWPPP AMENDMENTS.		S	
CHAIN OF RESPONSIBILITY:	THE TOTAL DISTURBED ARE FOR THE PROJECT IS 2.4 ACRES. THE TOTAL AREA OF IMPERVIOUS SUBFACE PRE PROJECT IS ACRES.	D. DEWATERING AND BASIN DRAINING (IF APPLICABLE) 1. CONTRACTOR'S DEWATERING ACTIVITIES THAT HAVE SEDIMENT! ADEN DISCHARGE MUST DISCHARGE INTO A	OWED	++++
BY SIGNING BELOW, ALL PARTIES AGREE TO FOLLOWING THE SWPPP SETFORTH.	THE TOTAL AREA OF IMPERVIOUS SURFACE POST PROJECT, D ACRES	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.	App a	XXXX
	SEE INDEX FOR PLANS, DETAILS, SPECIFICATIONS, PHASING PLAN	L DEWATERING PLANS SHALL BE FURNISHED TO SWPPP PERSONNEL AT TIME OF CONSTRUCTION.		
OWNER:	REGULATORY CONTEXT:	II. DEWATERING DISCHARGE POINTS MUST BE DISPERSED OVER PLYWOOD, NATURAL RIPRAP, SANDBAGS, PLASTIC SHEETING, OR OTHER ACCEPTED ENERGY DISSIPATING MEASURES IN A NON-EROSIVE		
OPERATOR:	SPECIAL OR IMPAIRED WATERS: THIS PROJECT DOES DISCHARGE TO SPECIAL WATERS, LAKE SUPERIOR.	MANNER. II. DEWATERING BMPS SHALL BE INSPECTED BY THE CONTRACTOR PERIODICALLY DAILY AND IMMEDIATELY.		
PHONE#:	THIS PROJECTS STORM WATER DISCHARGE IS NOT ANTICIPATED TO IMPACT ANY OF THE FOLLOWING: OUTSTANDING	MAINTAINED OR REPAIRED IF SEDIMENT-LADEN WATER IS BEING DISCHARGED.		
SWPPP DESIGNER: KEITH ANDERSON, KEITH@BEAVERRIVERCONSULTING.COM PHONE#: CELL 218-626-7450	RESOURCE VALUE WATERS, CALCAREOUS FENS, PROFERTIES LISTED BY THE NATIONAL REGISTER OF HISTORIC PLACES OR ARCHAEOLOGICAL SITES AND IS NOT SUBJECT TO ADDITIONAL REGISLATIONS DUE TO ANY FORMAL ENVIRONMENTAL REVIEW, ENDANGERED OR THREATENED SPECIES. WETLANDS DELINEATED AND IMPACT IS	E. SWPPP PERSONNEL SHALL BE RESPONSIBLE FOR PERFORMING THE FOLLOWING INSPECTIONS AND MANTENANCE:		
SWPPP INSPECTOR/MANAGER:	COORDINATED WITH ARMY CORPS OF ENGINEERS ALONG WITH THE WCA PANEL.	1. ALL NONFUNCTIONAL BMPS SHALL BE REPAIRED, REPLACED WITHIN 24 HOURS AFTER DISCOVERY, CONTRACTOR	√ Z	
PHONE#:	DEPARTMENT OF NATURAL RESOURCES HAS AUTHORITY OF WORK BELOW ORDINARY HIGH WATER LEVEL. PUBLIC WATERS WORK PERMIT SHALL BE OBTAINED AND ADHERED TO.	SHALL PLACE ANY ADDITIONAL EROSION CONTROL MEASURES DEEMED NECESSARY BY THE ENGINEER WITH 24 HOURS OF NOTICE. 2. THE SWIPPP INSPECTOR MUST ROUTINELY INSPECT THE SITE ONCE EVERY 7 DAYS DURING ACTIVE.	M RESTORATION S SILVER BAY COUNTY, MN	
CONSTRUCTION SWPPP DESIGNATE:	STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IMPLEMENTATION RESPONSIBILITIES:	 The SWPP INSPECTOR MIST ROUTINEST 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. ALL SILT MUST BE REMOVED FROM SILT FENCE BY CONTRACTOR WHEN IT REACHES A HEIGHT EQUAL TO 	유용교는	-
PHONE#: ESTIMATED PROJECT DATES:	THE OWNER AND CONTRACTOR ARE IDENTIFIED BY THE BID DOCUMENTS. CONTRACTOR SHALL VERIFY THAT ALL PERMITS HAVE BEEN OBTAINED.	ONE-THE DIST BE REMOVED FROM SILL FENCE BY CONTRACTOR SHALL REPAIR SILT FENCE THAT IS NONFUNCTIONAL WITH 34 HOURS OF DISCOVERY.	S S S S	SET
PROJECT START DATE: /	3. CONTRACTOR SHALL PERFORM SITE INSPECTIONS, RECORD KEEPING AND RECORD RETENTION IN ACCORDANCE	4. INSPECTIONS CAN BE SUSPENDED DUE TO FROZEN GROUND CONDITIONS UNTIL FIRST RUNOFF OCCURS OR	8 2 3 5	BB : !
PROJECT END DATE:/	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	CONSTRUCTION ACTIVITIES RESUME. F. POLLUTION PREVENTION MEASURES	WHITE R TREAM INEAR S	<u>m</u>
WATER BODY: BIG AND LITTLE 39 CREEKS, LAKE COUNTY MN	VEGETATIVE COVER. 5. CONTRACTOR SHALL PERFORM SITE GRADING, EXCAVATION, STOCKPILING WORK IN ACCORDANCE WITH SWPPP.	CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE FOLLOWING POLLUTION MANAGEMENT MEASURES	돌윤윤孝	
DNR WORK RESTRICTIONS: JULY 1-SEPTEMBER 15TH WITHOUT AMENDMENT	 CONTRACTOR SHALL INSTALL, INSPECT, MONITOR AND MAINTAIN TEMPORARY AND PERMANENT EROSION CONTROL BMP AS SHOWN ON PLANS, CONTINUOUSLY DURING DURATION OF WORK. 	ON THE SITE: 1. SOLID WASTE: COLLECTED SEDIMENT, ASPHALT, CONCRETE MILLINGS, FLOATING DEBRIS, PAPER, PLASTIC.	> TS	
MN DNR SPECIAL WATERS, ENSURE ANY EQUIPMENT WORKING IN THE WATER HAS BEEN WASHED AND IS FREE OF EXOTIC SPECIES	√ 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 TEMPORABILY OR PERMANENTLY. ON THE STABLE OF THE ST	FABRIC, CONSTRUCTION AND DEMOLITION DEBRIS AND OTHER WASTES MUST BE DISPOSED OF PROPERLY AND MUST COMPLY WITH MPCA DISPOSAL REQUIREMENTS.		
White Mad to the Color of Edeb	CEASED. 8. CONTRACTOR SHALL REPLACE OR REPAIR EROSION CONTROL AND SEDIMENT CONTROL BMPS IMMEDIATELY IF IT	 HAZARDOUS MATERIAL: HAZARDOUS SUBSTANCES MUST BE STORED IN APPROPRIATE CONTAINERS AND STEPS IMPLEMENTED TO PREVENT SPILLS, LEAKS, AND VANDALISM. 		
	IS FOUND THAT THEY ARE NOT FUNCTIONING PROPERLY. 9. CONTRACTOR SHALL PERFORM SITE RESTORATION ACTIVITIES FOR PERMANENT VEGETATION ESTABLISHMENT.	ADEQUATE SUPPLIES TO CLEAN UP SPILLS MUST BE AVAILABLE ON SITE. NO VEHICLE DEGREASING ON SITE.		
	10. CERTIFIED SWPPP INPECTOR/MANAGER IDENTIFIED AT THE PRECONSTRUCTION MEETING SHALL INSPECT THE ENTIRE PROJECT AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS	G. DIVERSION		
	AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. 11. INSPECTIONS SHALL BE CONDUCTED WITH THE PROVIDED SWPPP INSPECTION WORKSHEET.	CONTRACTORS MUST PROVIDE DETAILS ON STREAM DIVERSION AT THE PRECONSTRUCTION MEETING. THIS		
	12. REDUNDANT BMP SHALL BE INSTALLED IF FREQUENT FAILURE OR EXCESSIVE MAINTENANCE IS NOTED AND SWIPPP WILL BE AVENUED TO THAT EFFECT.	INCLUDES BUT NOT LIMITED TO: PIPE SIZES, PUMP SIZES, DIVERSION CHANNEL SIZE, DIVERSION CHANNEL LOCATIONS, WITH ASSOCIATED DEWATERING PLANS IF APPLICABLE.		
	13. CONTRACTOR SHALL REMOVE SEDIMENT CONTROL DEVICES AT COMPLETION OF PROJECT AND SUBMIT A NOTICE OF TERMINATION TO MINNESOTA POLLUTION CONTROL AGENCY.	2. DIVERSION CAN BE ACHIEVED USING BERMS, ABANDONED CHANNELS, JERSEY BARRIERS, PIPES, SANDBAG DAMS, PLYWOOD DAMS, OR OTHER METHODS THAT ARE DEEMED APPROPRIATE FOR THE SITE.	C	LIFF
	14. CONTRACTOR SHALL ENSURE THAT THE PUBLIC WATERS PERMIT STIPULATIONS ARE FOLLOWED.	FINAL STARLIZATION		
	RECORD RETENTION	ALL DISTURBED AREAS SHALL BE STABILIZED BY USING COIR MAT, EROSION CONTROL BLANKETS, MULCH, OR		RE MINING CO ITER DR IV, MN 55614
	SWPPP RECORDS SHOULD BE MAINTAINED BY OWNER FOR THREE YEARS AFTER FINAL STABILIZATION. CHANGES MADE TO SWPPP PLAN IMPLEMENTATION SHALL BE RECORDED AS SWPPP AMENDMENTS WITH 24	HYDROSEEDED AS PER VEGETATIVE DETAILS SHEETS 2. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED BY SEED, SHRUBS, AND TREES AS SPECIFIED IN		-
	HOURS. 3. SWPPP AMENDMENTS SHALL BE ACCOMPANIED BY NOTIFICATION OF CHANGES TO SWPPP INSPECTORMANAGER.	PLANS. 3. TRIPPORARY SEDIMENT EROSION CONTROL BMPS SHALL BE REMOVED AT PROJECT CLOSEOUT.	444	DEANTR
	3. A COPY OF SWPPP PLAN SHALL BE MAINTAINED ON SITE OR IN CONSTRUCTION VEHICLE DURING ACTIVE CONSTRUCTION.	3. IEBPOWAT SEDBERT ENGIGN CONTROL BRPS SPACE BE REMOVED AT PROJECT COORDOT.		CONSULTING
	NISPECTIONS WILL BE RECORDED WITH 24 HOURS IN WRITING AND RETAINED WITH SWPPP RECORD IN A DESIGNATED LOCATION.		BEAVER RIVER O 5752 EAGLE DULUTH,	CONSULTING, LLI E VIEW DRIVE , MN 55803
	CONSTRUCTION ACTIVITY FIELD REQUIREMENTS:		<u> </u>	-
	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.			
	AND FUNCTIONAL MANNER.		BID	SET
	 THE CONTRACTOR SHALL RESPOND TO CHANGING SITE CONDITIONS AND IMPLEMENT/SUPPLEMENT EROSION PREVENTION AND SEDIMENT CONTROL MEASURES UTILIZED TO PROVIDE ADEQUATE PROTECTION OF DISTURBED 		LEMMAN CONTRACT	THE R. O. P. ST. LEWIS CO., LANSING,
	SOILS AND ADEQUATE PREVENTION OF SEDIMENT TRANSPORT OFF-SITE. AT A MINIMUM, THE FOLLOWING STORM WATER POLLUTION PREVENTION CONSTRUCTION FIELD REQUIREMENTS SHALL BE FURNISHED BY THE		APP OF THE REAL PROPERTY.	D THAT I ME A DELY
	CONTRACTOR.			M. Andrews
ASSOCIATED DOCUMENTS:	B. EROSION PREVENTION PRACTICES		NATE D4/27/22	
CERTIFICATION OF TRAINING(S)	 THE CONTRACTOR SHALL ATTEMPT TO PHASE ALL WORK TO MINIMZE EROSION AND MAINTAIN VEGETATION COVER TO THE EXTENT POSSIBLE. 			
PROJECT PLANS PROJECT DETAILS	 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 		DATE:	8/3/2022
SWPPP AMENDMENTS CONTRACTOR SHOP DRAWING OF BMPS LOCATIONS AND TIMING: TO BE ATTACHED AT	STOCKPILES WITH SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS. 3. TEMPORARY OR PERMANENT ENERGY DISSIPATION AT PIPE OUTLETS MUST BE PROVIDED WITHIN 24 HOURS OF			
PRECONSTRUCTION MEETING DIVERSION PLANS: TO BE ATTACHED AT PRECONSTRUCTION MEETING	CONNECTING TO A SURFACE WATER. 5. TOPSOIL WILL BE SALVAGED AND STOCKPILED FOR REAPPLICATION SO AS TO ENSURE MAXIMUM GROWTH			
DEWATERING PLANS: TO BE ATTACHED AT PRECONSTRUCTION MEETING DEWATERING PLANS: TO BE ATTACHED AT PRECONSTRUCTION MEETING STAGING PLANS: TO BE ATTACHED AT PRECONSTRUCTION MEETING	POTENTIAL.		N	тѕ
NPDES PERMIT PUBLIC WATERS WORK PERMIT			SHEET	NUMBER
INSPECTION REPORTS			29 0	OF 29