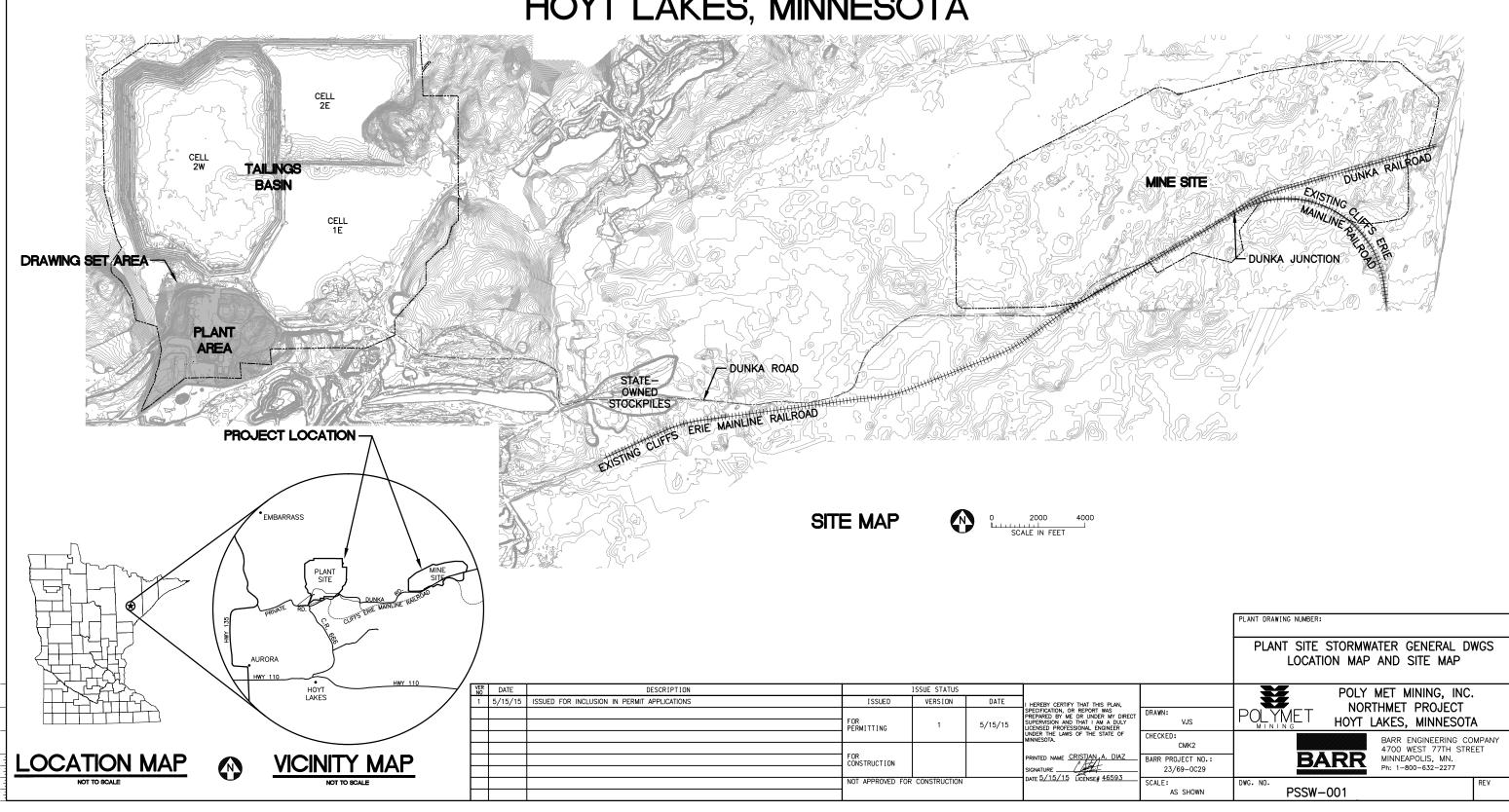
# Appendix 10

Plant Site Stormwater Permit Application Support Drawings



#### PLANT SITE STORMWATER LEGEND

#### **EXISTING** <u>PROPOSED</u> <del>---1</del>000----PROPOSED CONTOUR - MAJOR 5' EXISTING CONTOUR - MINOR 2' PROPOSED CONTOUR - MINOR 1' ++++++ EXISTING RAILROAD PROPOSED CENTERLINE STATIONING 1+00X ----- WATER EDGE/CREEK CENTER LINE PROPOSED CULVERT (STORMWATER) EXISTING ROAD PROPOSED PIPE EXISTING STRUCTURES 0 PROPOSED MANHOLE/CATCH BASIN TREE LINE PROPOSED RIPRAP EXISTING MANHOLE/CATCH BASIN PROJECT AREA BOUNDARY > EXISTING CULVERT FLOW PATH ----X--- EXISTING FENCE PROPOSED OTHER FACILITY WETLAND BOUNDARY PROPOSED STRUCTURES PROPOSED RAILROAD

#### **NOTES**

- 1. COORDINATE SYSTEM IS MINNESOTA STATE PLANE NORTH ZONE, NAD83.
- 2. ELEVATIONS ARE MEAN SEA LEVEL (MSL), NAVD88.
- 3. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THE DRAWINGS WAS PREPARED BY AEROMETRIC, INC. FROM LIDAR DATA COLLECTED ON MARCH

# SHEET INDEX

# SHEET NO. TITLE

#### PLANT SITE STORMWATER DRAWINGS

PSSW-001 PSSW-002 PSSW-003 PSSW-004 TO PSSW-015 LOCATION MAP & SITE MAP LEGEND & SHEET INDEX GENERAL LAYOUT & SHEET INDEX MAP GRADING PLANS GRADING PROFILES

## **ABBREVIATIONS**

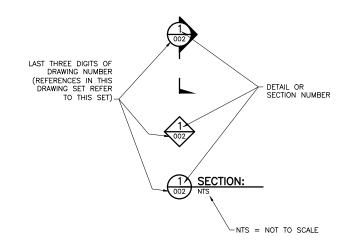
AC-FT AVE CB Q CMP DS DV DWG ACRE-FEET AVERAGE
CATCH BASIN
CENTERLINE
CORRUGATED METAL PIPE DOWNSTREAM DOWNSTREAM
DRAIN VALVE
DRAWING
ELEVATION
FLOTATION TAILINGS BASIN

GALLONS
GALLONS PER MINUTE
HIGH—DENSITY POLYETHYLENE

INVERT LINEAR FEET MANHOLE

EL. FTB GAL GPM HDPE INV LF MH MIN NWL PSSW SDR STA TYP US MINIMUM NORMAL WATER LEVEL PLANT SITE STORMWATER STANDARD DIMENSION RATIO

## DRAWING NUMBERING



PLANT SITE STORMWATER GENERAL DWGS LEGEND AND SHEET INDEX

PLANT DRAWING NUMBER:

POLYME

VER NO	DATE	DESCRIPTION	ISSUE STATUS				
1	5/15/15	ISSUED FOR INCLUSION IN PERMIT APPLICATIONS	ISSUED	VERSION	DATE	I HEREBY CERTIFY THAT THIS PLAN,	
			FOR 1	5/15/15	SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER	DRAWN: VJS	
						SIGNATURE	CHECKED: CMK2
			FOR CONSTRUCTION				BARR PROJECT NO.: 23/69-0C29
			NOT APPROVED FOR CONSTRUCTION			DATE <u>5/15/15</u> LICENSE# <u>46593</u>	SCALE: AS SHOWN

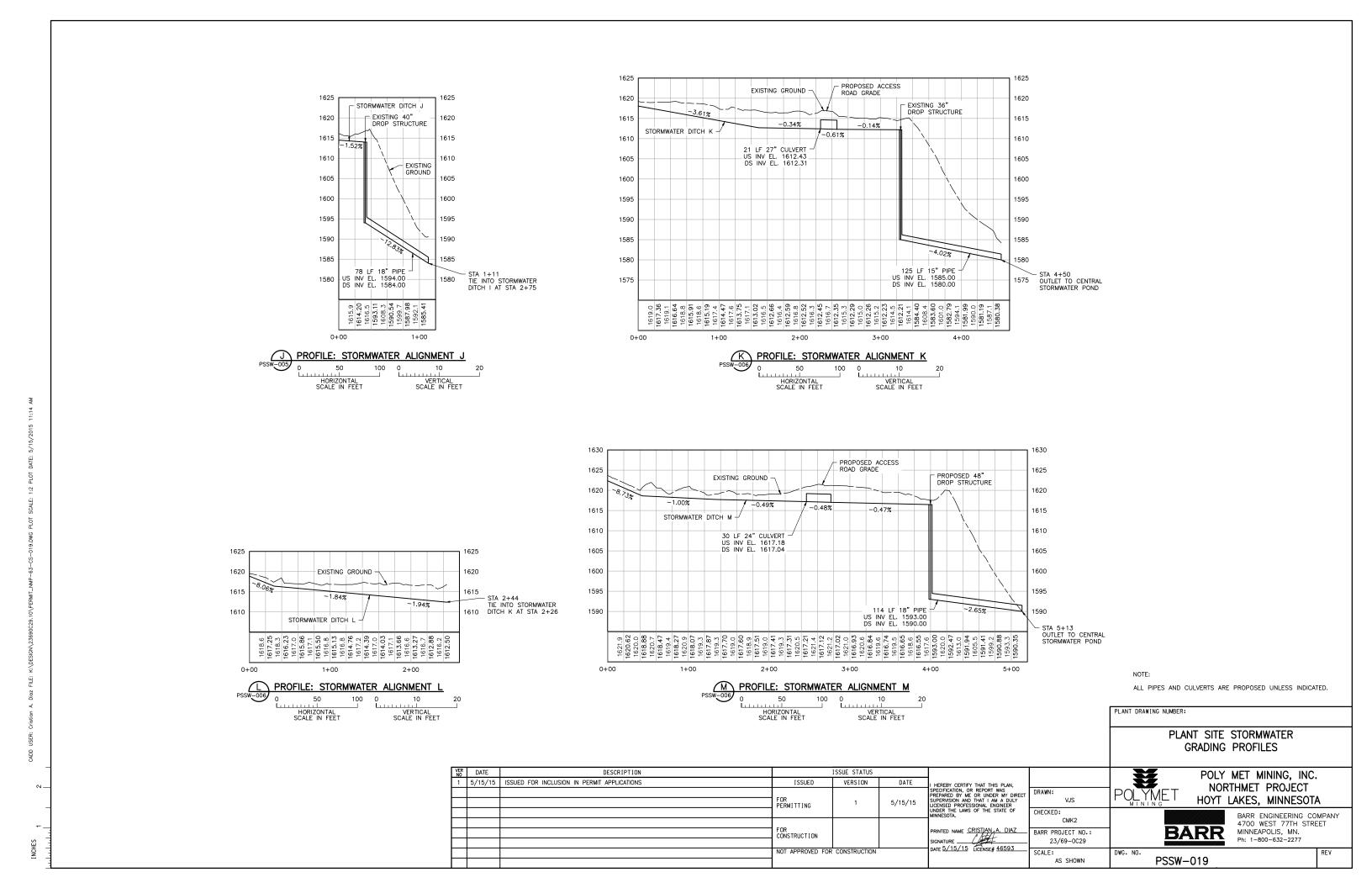
BARR Ph: 1-800-632-2277 PSSW-002

POLY MET MINING, INC. NORTHMET PROJECT

HOYT LAKES, MINNESOTA

MINNEAPOLIS, MN.

BARR ENGINEERING COMPANY 4700 WEST 77TH STREET



PROPOSED CB #2 -

1585 1580

1575

1570

(REPLACE EXISTING) RIM EL. 1578.40 INV EL. 1569.24

1590

1585

1580

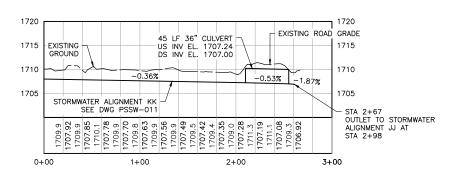
1575

1570

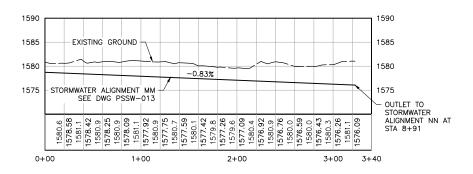
EXISTING GROUND -

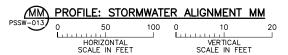
-0.62%

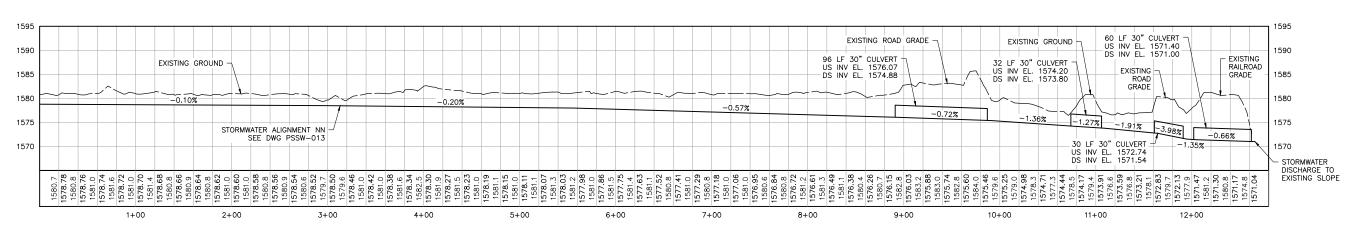
STORMWATER ALIGNMENT Q











NN PROFILE: STORMWATER ALIGNMENT NN 50 HORIZONTAL SCALE IN FEET VERTICAL SCALE IN FEET

NOTE:

PLANT DRAWING NUMBER:

ALL PIPES AND CULVERTS ARE PROPOSED UNLESS INDICATED.

							PLANT SITE STORMWATER GRADING PROFILES				
	VER DA	ATE	DESCRIPTION	ISSUE STATUS					***	POLY MET MINING, INC	
	1 5/1	5/15	ISSUED FOR INCLUSION IN PERMIT APPLICATIONS	ISSUED	VERSION	DATE	I HEREBY CERTIFY THAT THIS PLAN,			NORTHMET PROJECT	•
E				FOR PERMITTING	ING 1	E /1E /1E	SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	DRAWN: PRT		HOYT LAKES, MINNESOT	`A
								CHECKED:		BARR ENGINEERING CO	BARR ENGINEERING COMPANY
L				500				CMK2		4700 WEST 77TH STR	EET
L				CONSTRUCTION			1 Att	BARR PROJECT NO.:	l BA	MINNEAPOLIS, MN. Ph: 1-800-632-2277	
L							DATE 5/15/15 LICENSE# 46593	23/69-0C29	Pn: 1-800-832-		
╁				NOT APPROVED FOR	CONSTRUCTION		DATE ST. ST. S LICENSE# TOOSO	SCALE: AS SHOWN	DWG. NO. PSSW-	029	REV

