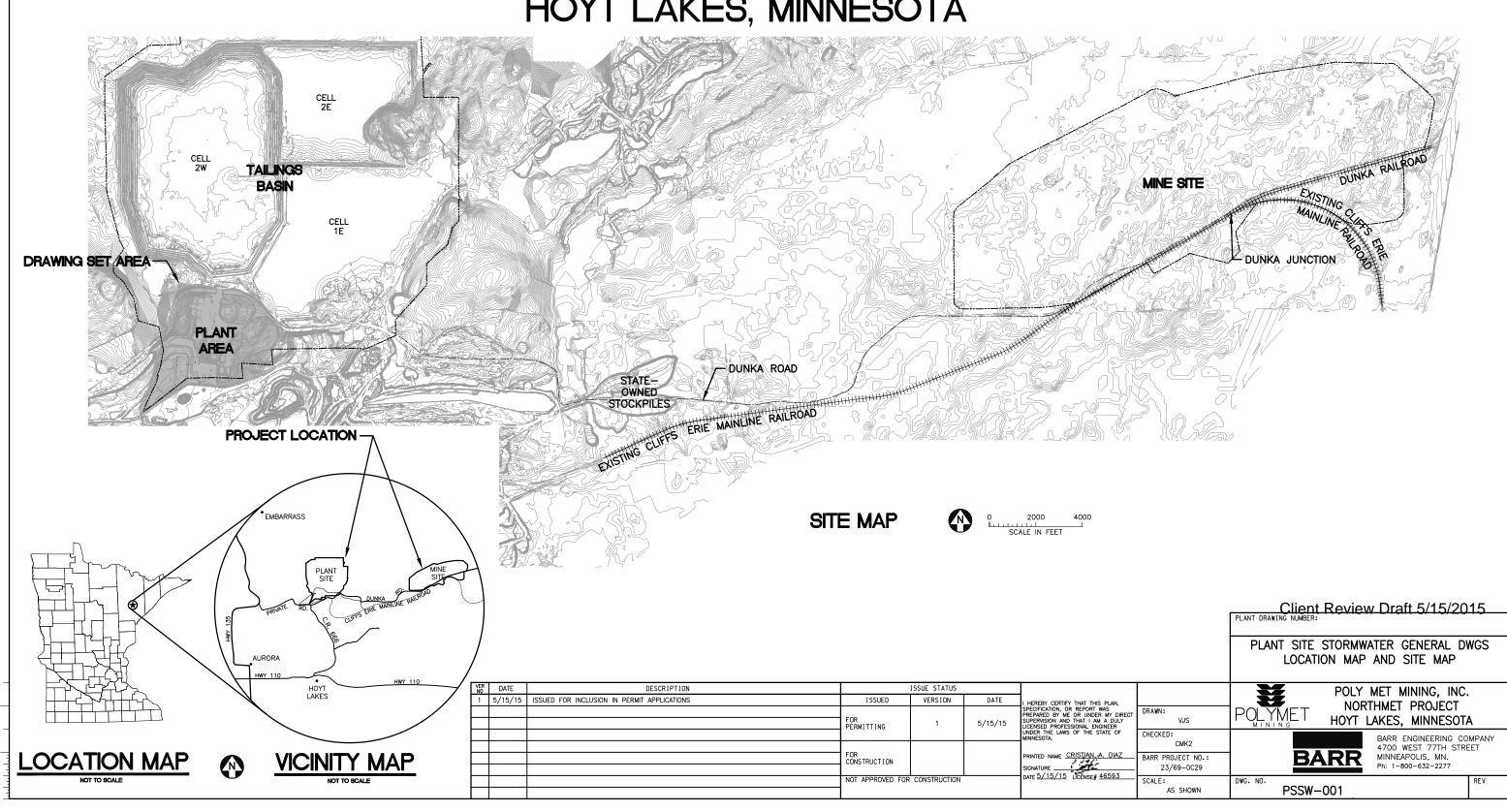
Appendix 10 Plant Site Stormwater Permit Application Support Drawings



PLANT SITE STORMWATER LEGEND

EXISTING PROPOSED ---1000----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 PSSW-016 TO PSSW-030 PSSW-031 TO PSSW-033 GRADING PROFILES

ABBREVIATIONS

AC-FT AVE CB Q CMP DS DV DWG ACRE-FEET AVERAGE
CATCH BASIN
CENTERLINE
CORRUGATED METAL PIPE DOWNSTREAM

DRAIN VALVE DRAWING ELEVATION

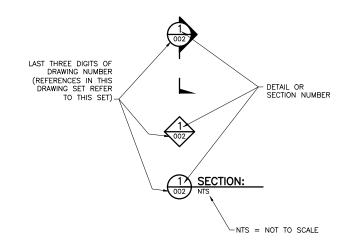
FLOTATION TAILINGS BASIN GALLONS
GALLONS PER MINUTE
HIGH—DENSITY POLYETHYLENE

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

STATION

DRAWING NUMBERING



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PLANT SITE STORMWATER GENERAL DWGS LEGEND AND SHEET INDEX

> POLY MET MINING, INC. NORTHMET PROJECT

HOYT LAKES, MINNESOTA

MINNEAPOLIS, MN.

BARR ENGINEERING COMPANY 4700 WEST 77TH STREET

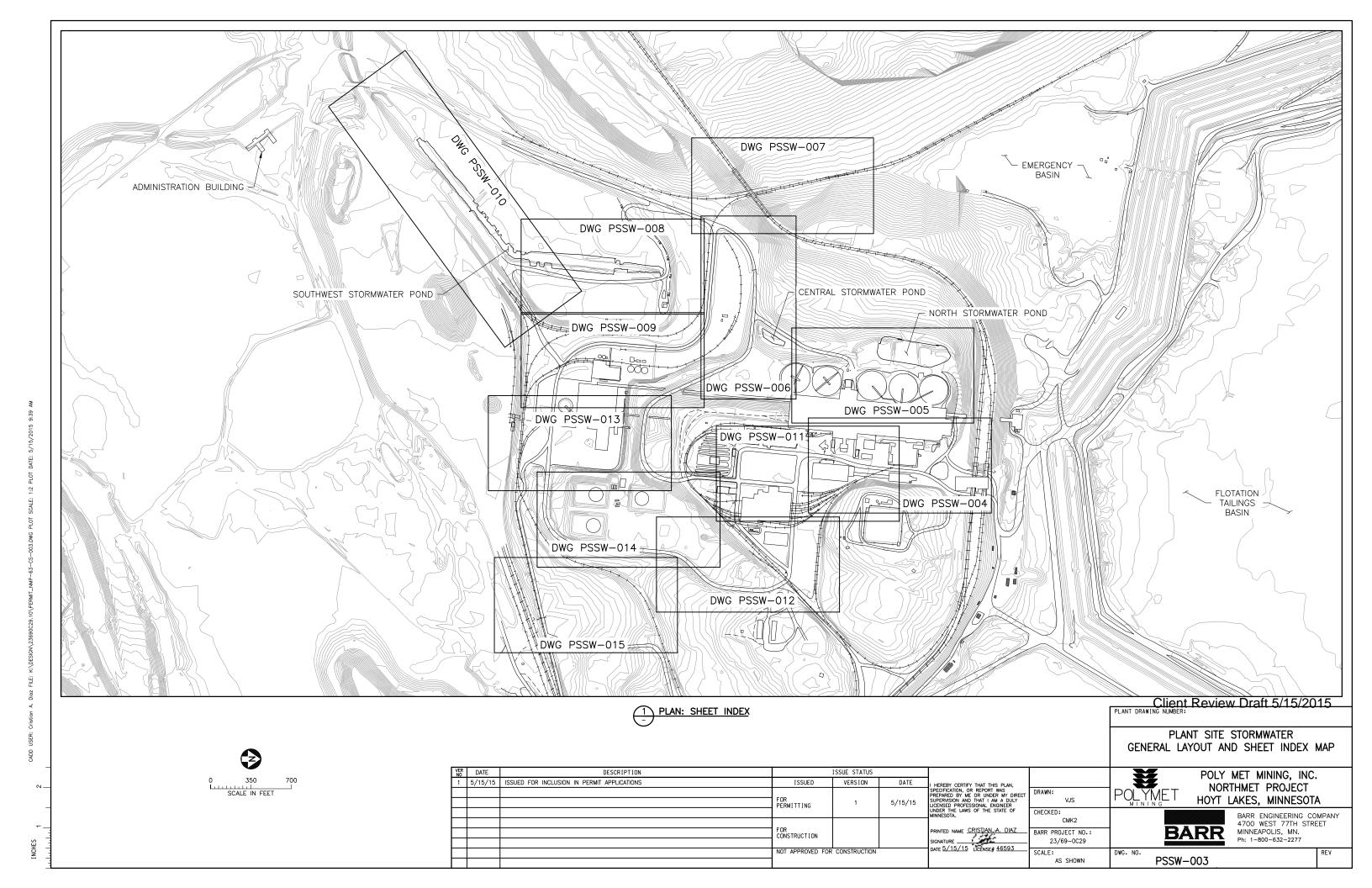
VER NO	DATE	DESCRIPTION	ISSUE STATUS				
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			FOR PERMITTING	1	5/15/15	SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF	DRAWN: VJS CHECKED:
			500			MINNESOTA.	CMK2
			FOR CONSTRUCTION	ION		PRINTED NAME CRISTIAN A. DIAZ SIGNATURE DATE 5/15/15 LICENSE# 46593	BARR PROJECT NO.: 23/69-0C29
			NOT APPROVED FOR CONSTRUCTION			DATE <u>5/15/15</u> LICENSE# <u>46593</u>	SCALE:

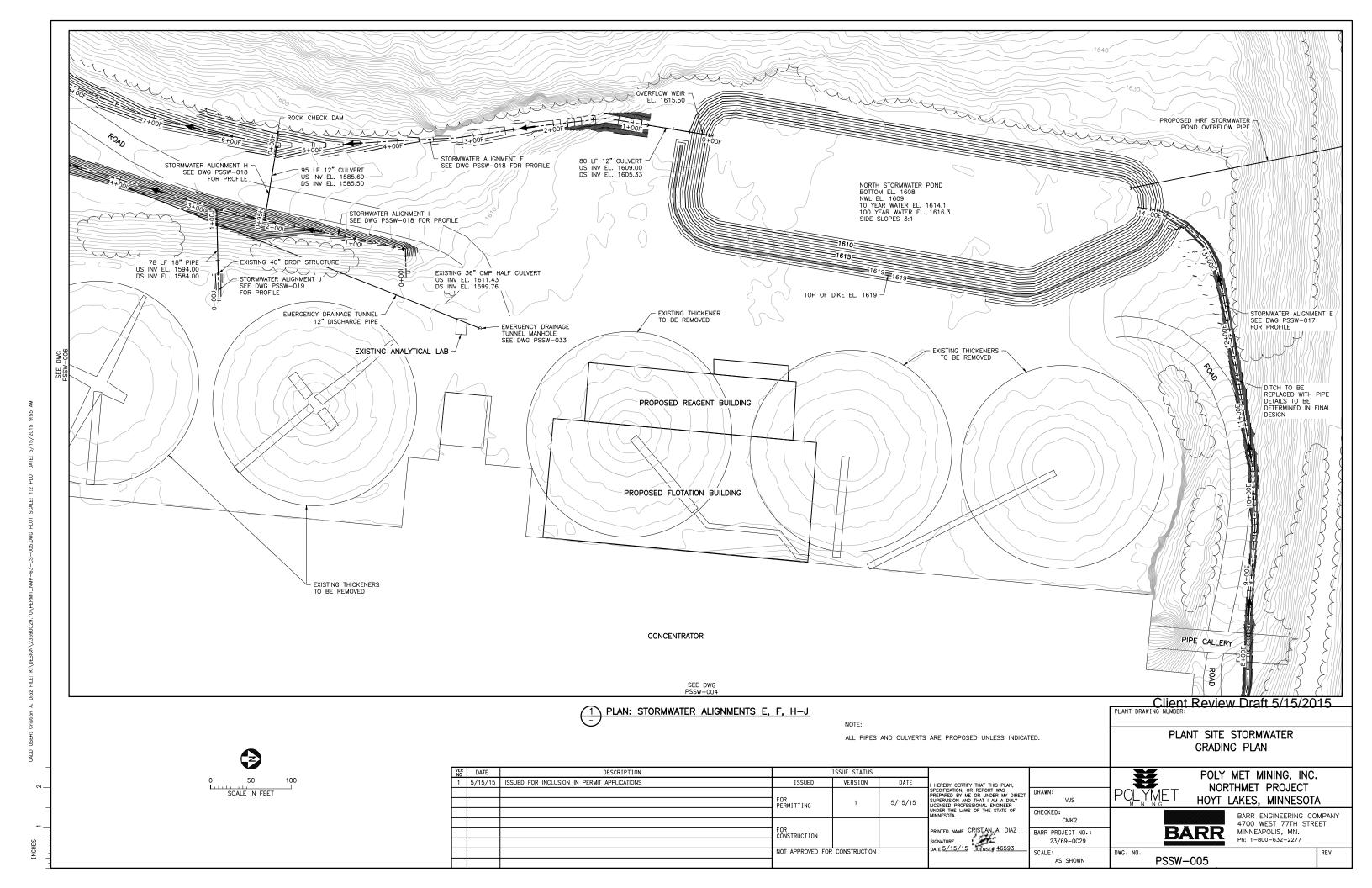
BARR Ph: 1-800-632-2277

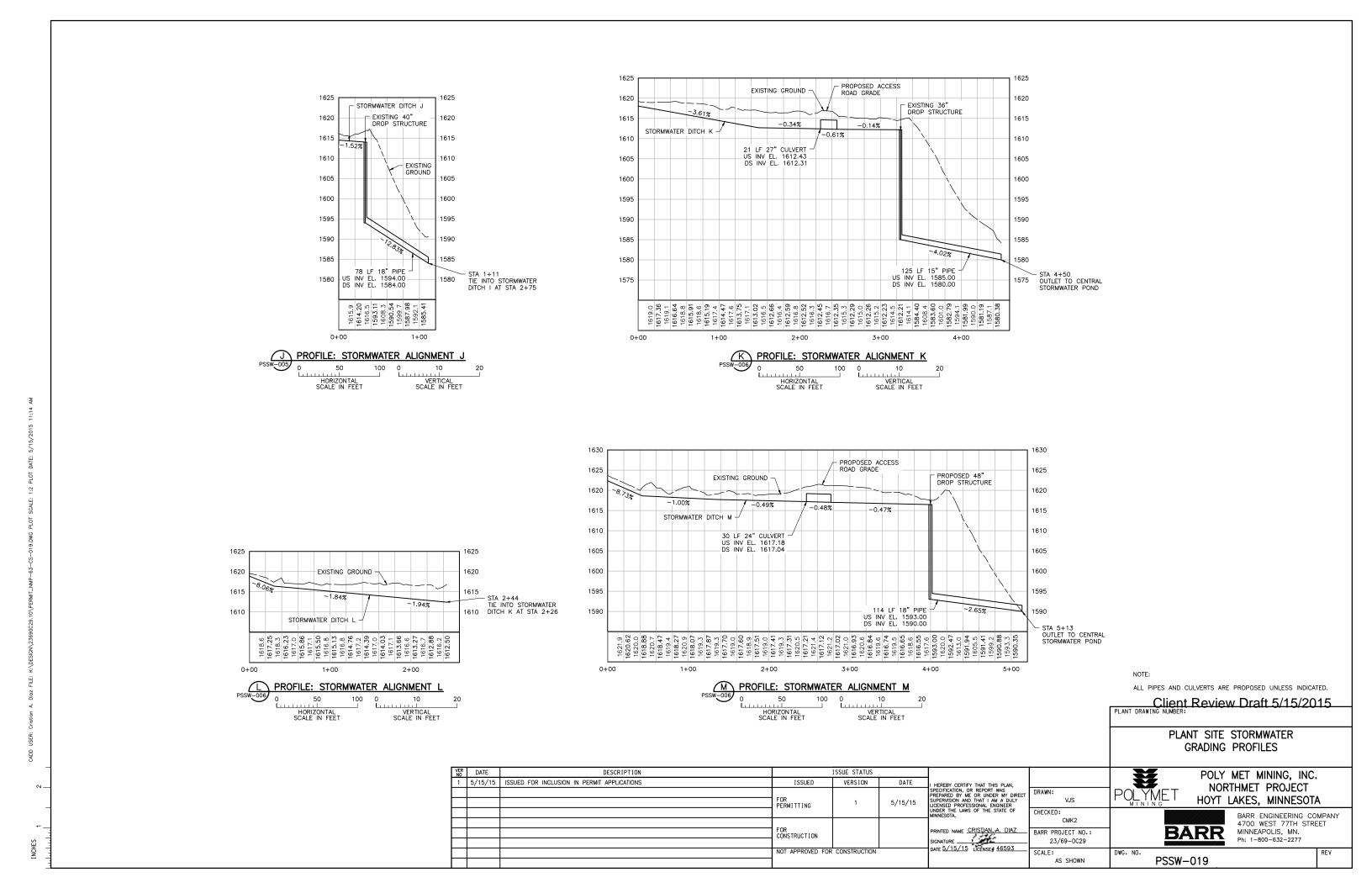
PSSW-002

POLYME

AS SHOWN







PROPOSED CB #2 -

1585 1580

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

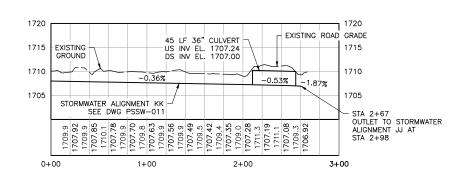
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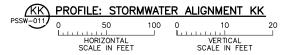
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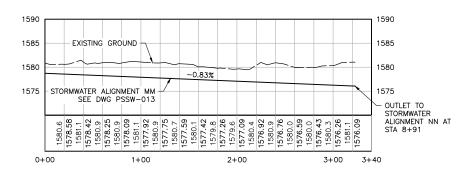
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EXISTING GROUND

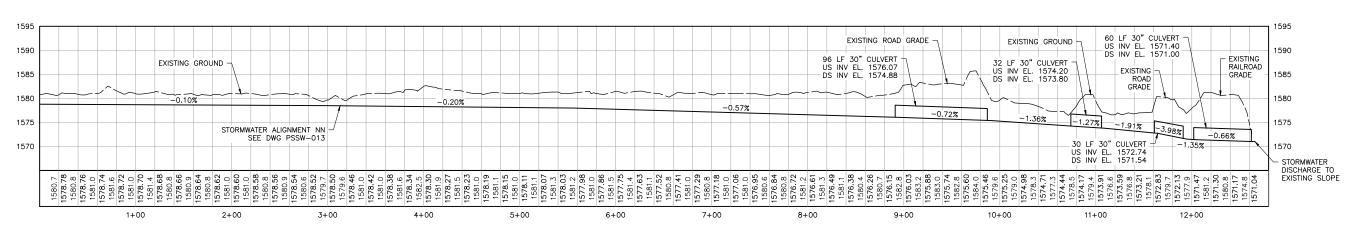
-0.62%











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

POLYMET

ALL PIPES AND CULVERTS ARE PROPOSED UNLESS INDICATED.

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BARR

PSSW-029

PLANT SITE STORMWATER GRADING PROFILES

> POLY MET MINING, INC. NORTHMET PROJECT

HOYT LAKES, MINNESOTA

MINNEAPOLIS, MN.

Ph: 1-800-632-2277

BARR ENGINEERING COMPANY 4700 WEST 77TH STREET

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.	
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			1		UNDER THE LAWS OF THE STATE OF MINNESOTA.	CHECKED: CMK2	
			FOR CONSTRUCTION			PRINTED NAME <u>CRISTIAN A. DIAZ</u> SIGNATURE	BARR PROJECT NO.: 23/69-0C29
			NOT APPROVED FOR CONSTRUCTION			DATE 5/15/15 LICENSE# 46593	SCALE:
1							AS SHOWN

