

**Section 3.2.5.1 of
Permit NACC-1302
Shop Access Road and
Coyote Creek Crossing**

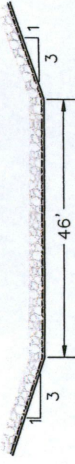
July 31, 2014 Version

September 15, 2014 Version

March 10, 2015 Version (Revision 1)

May 15, 2015 Version (Revision 1)

(4 Pages)



TYPICAL INLET DIVERSION CROSS SECTION

NOT TO SCALE

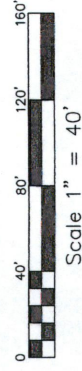
- NOTE:
1. ALL COORDINATES ARE BASED ON THE NORTH DAKOTA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983.
 2. ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC DATUM OF 1988, GEOID 2012.
 3. DESIGN SURFACES UTILIZE 1 FOOT CONTOURS TO SHOW ELEVATION CHANGE OF DESIGN SURFACE. EXISTING CONTOURS ARE TWO FOOT CONTOURS.
 4. BOTH THE DIVERSION DESIGN SURFACE AND THE ROAD DESIGN SURFACE ARE SHOWN.
 5. THE ORIGINAL STREAMBED WILL BE RETAINED FOR LOW FLOW CONDITIONS WITH A 36" CULVERT CROSSING UNDER THE ACCESS ROAD.
 6. ALL CULVERTS WILL BE SUBMERGED 1 FOOT TO MEET CURRENT REGULATIONS.

LEGEND

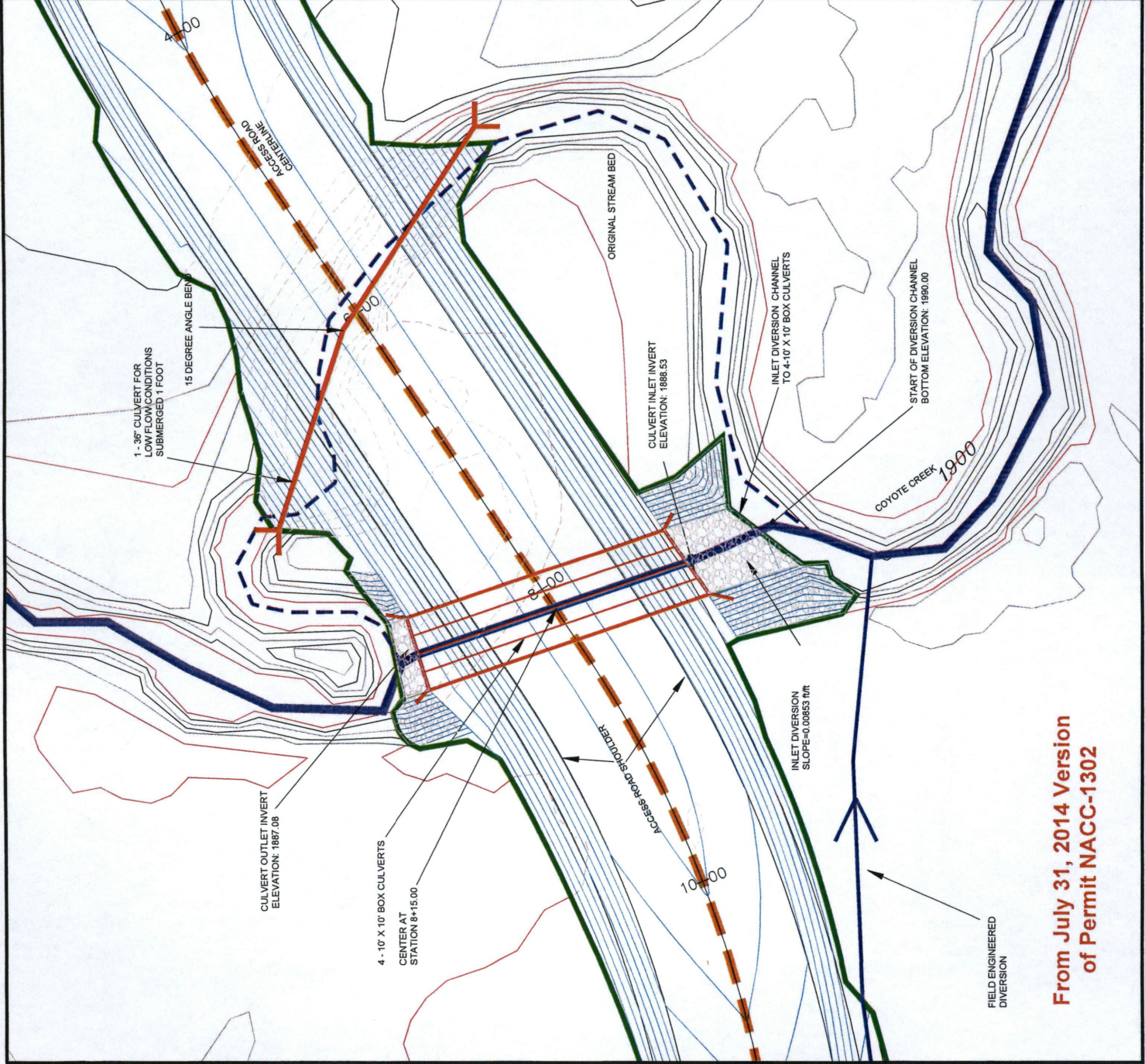
- COYOTE CREEK
- ORIGINAL STREAM BED - LOW FLOW STREAM BED
- FIELD ENGINEERED DIVERSION
- CULVERT
- ACCESS ROAD CENTERLINE
- RIP RAP
- EDGE OF DISTURBANCE

I certify that this temporary stream channel diversion drawing was prepared by myself, or under my direction, and that I have previous experience in the design of temporary stream channel diversion drawings. I am a duly licensed Professional Engineer in the State of North Dakota, and I am duly registered in the State of North Dakota. I am duly registered in the State of North Dakota as a Professional Engineer in the State of North Dakota. I am duly registered in the State of North Dakota as a Professional Engineer in the State of North Dakota. I am duly registered in the State of North Dakota as a Professional Engineer in the State of North Dakota.

C.N.

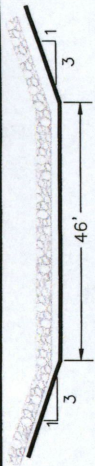


10					
9					
8					
7					
6					
5					
4					
3					
2					
1					
0	BMF	MDB	10/31/13		
NO.	BY	APP'D	DATE		
DRAWING UPDATES					
Coyote Creek Mining Company, L.L.C. 2000 Sabler St. Suite D Bismarck, ND 58501-1204 (701) 258-2200 - Fax (701) 222-7584					
Diversion Channel					
SECTION 3.2.51					
SCALE: 1"=40' PROJECT: NACC-1302 REVISION: 0					



From July 31, 2014 Version of Permit NACC-1302

FIELD ENGINEERED DIVERSION



TYPICAL INLET DIVERSION CROSS SECTION

NOT TO SCALE

- NOTE:
1. ALL COORDINATES ARE BASED ON THE NORTH DAKOTA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983.
 2. ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC DATUM OF 1988, GEOID 2012.
 3. DESIGN SURFACES UTILIZE 1 FOOT CONTOURS TO SHOW ELEVATION CHANGE OF DESIGN SURFACE. EXISTING CONTOURS ARE TWO FOOT CONTOURS.
 4. BOTH THE DIVERSION DESIGN SURFACE AND THE ROAD DESIGN SURFACE ARE SHOWN.
 5. THE ORIGINAL STREAMBED WILL BE RETAINED FOR LOW FLOW CONDITIONS WITH A 36" CULVERT CROSSING UNDER THE ACCESS ROAD.
 6. ALL CULVERTS WILL BE SUBMERGED 1 FOOT TO MEET CURRENT REGULATIONS.

LEGEND

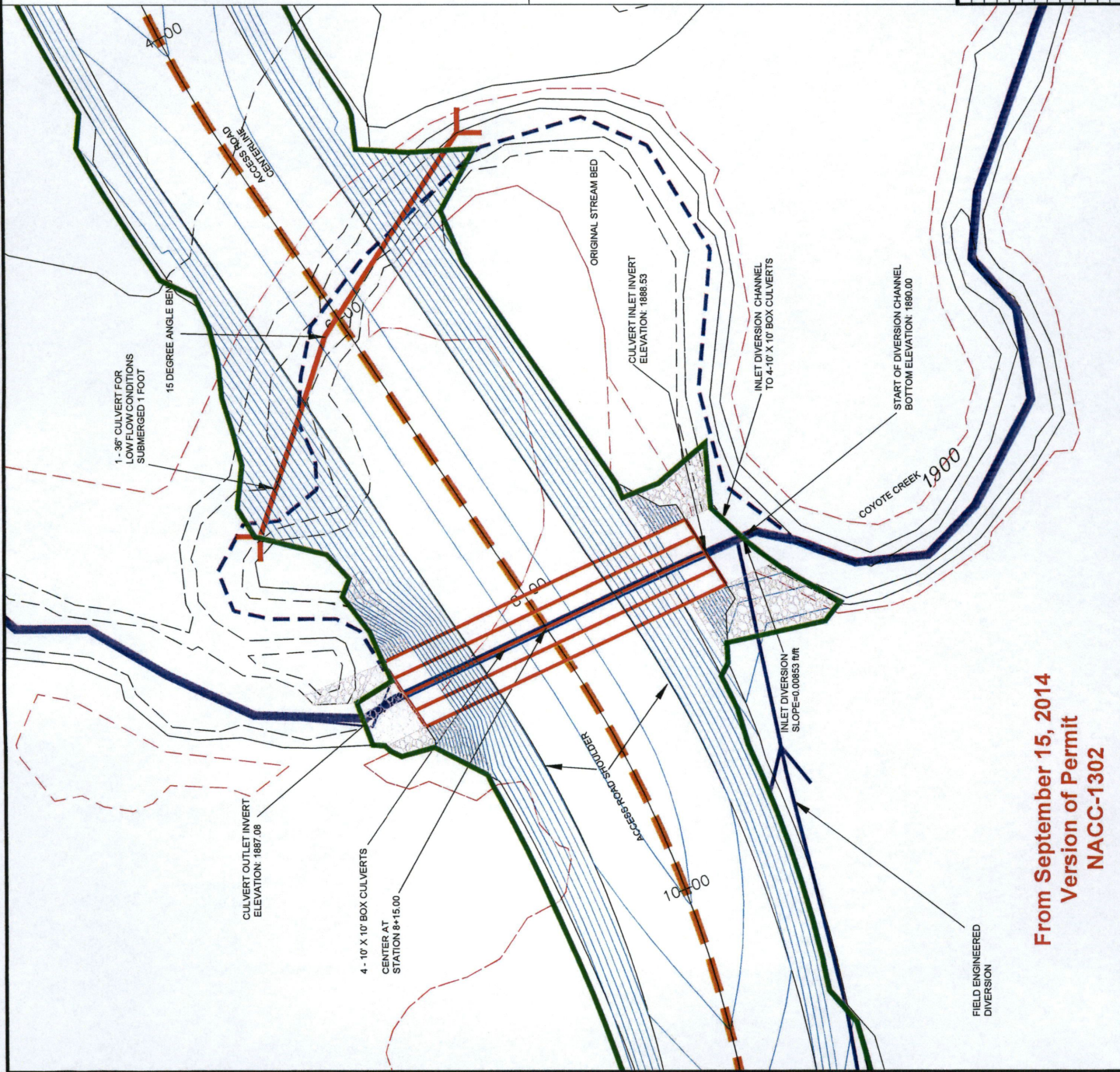
- COYOTE CREEK
- ORIGINAL STREAM BED - LOW FLOW STREAM BED
- FIELD ENGINEERED DIVERSION
- CULVERT
- ACCESS ROAD CENTERLINE
- RIP RAP
- EDGE OF DISTURBANCE

I certify that this temporary stream channel diversion drawing was prepared by myself, or under my direction, and that I have previous experience in the design of temporary stream channel diversions. I further certify that the design of this temporary stream channel diversion meets current and prudent engineering standards and the temporary stream channel diversion design requirements of the North Dakota Public Service Commission.

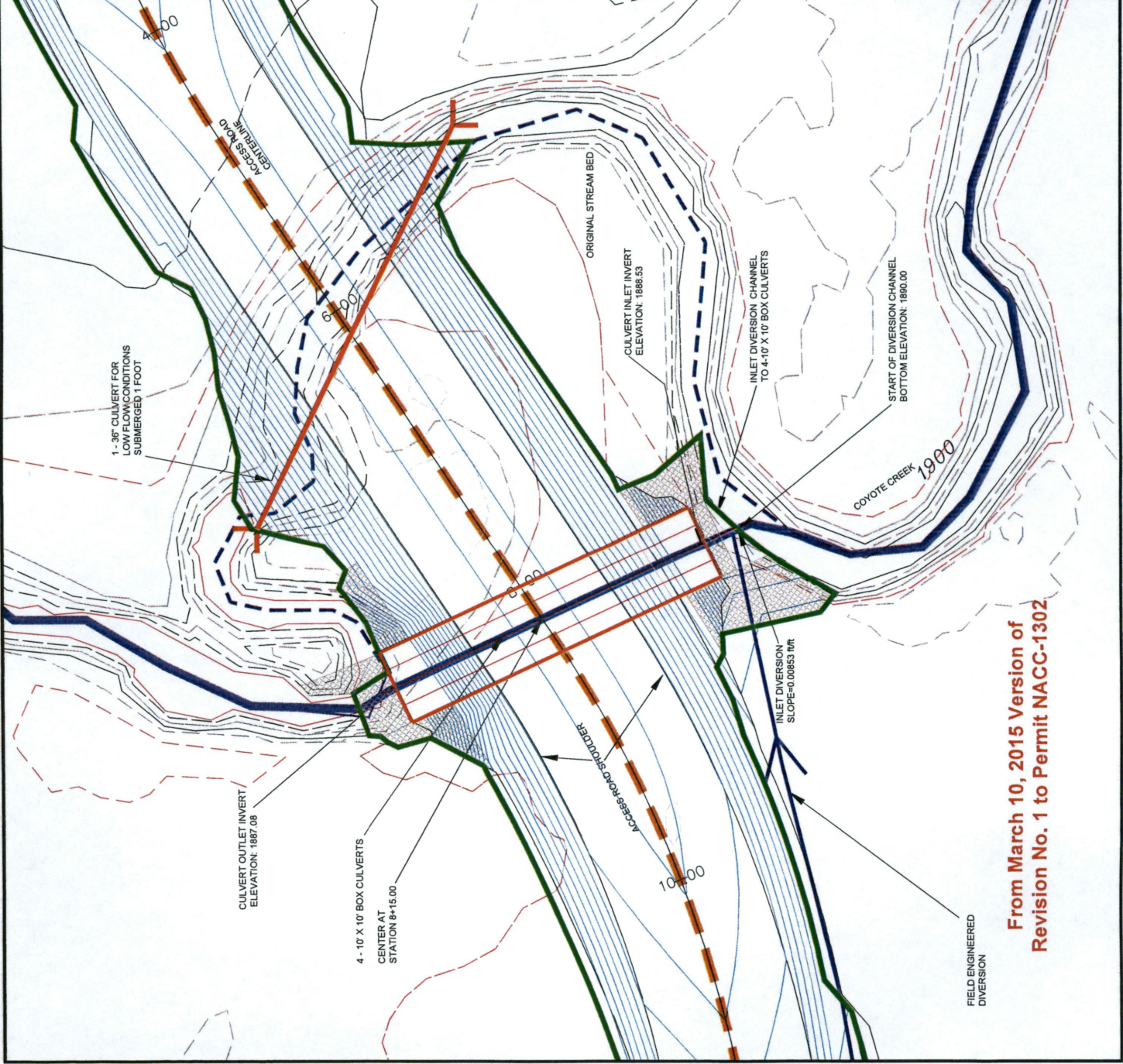
G.N.



10		DRAWING UPDATES	
9	LAB	9/8/14	
8	MBF	10/31/13	
7	BY	APP'D	DATE
6	5	4	3
5	4	3	2
4	3	2	1
3	2	1	
DIVERSION CHANNEL		SHOP-ACCESS ROAD	
SECTION 32.51			
PROJECT: NACC-1302		REVISION: 0	
SCALE: 1"=40'			
COYOTE CREEK MINING COMPANY, L.L.C. COYOTE CREEK MINE 2006 SHERIDAN BLVD BILLINGS, MONTANA 59101-1204 (701) 258-2200 - FAX (701) 232-7584			



From September 15, 2014
Version of Permit
NACC-1302



TYPICAL INLET DIVERSION CROSS SECTION

NOTE: NOT TO SCALE

1. ALL COORDINATES ARE BASED ON THE NORTH DAKOTA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983.
2. ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC DATUM OF 1988, GEOID 2012.
3. DESIGN SURFACES UTILIZE 1 FOOT CONTOURS TO SHOW ELEVATION CHANGE OF DESIGN SURFACE. EXISTING CONTOURS ARE TWO FOOT CONTOURS.
4. BOTH THE DIVERSION DESIGN SURFACE AND THE ROAD DESIGN SURFACE ARE SHOWN.
5. THE ORIGINAL STREAMBED WILL BE RETAINED FOR LOW FLOW CONDITIONS WITH A 36" CULVERT CROSSING UNDER THE ACCESS ROAD.
6. ALL CULVERTS WILL BE SUBMERGED 1 FOOT TO MEET CURRENT REGULATIONS.

LEGEND

- COYOTE CREEK
- ORIGINAL STREAM BED - LOW FLOW STREAM BED
- LOW-FLOW CULVERT
- ACCESS ROAD CENTERLINE
- CABLE CONCRETE EROSION CONTROL
- EDGE OF DISTURBANCE

I certify that this temporary stream channel diversion drawing was prepared by myself, or under my direction, and that I have previous experience in the design of temporary stream channel diversions. I understand the design of this temporary stream channel diversion meets current and prudent engineering standards and the temporary stream channel diversion design requirements of the North Dakota Public Service Commission.

C.N.



10					
9					
8					
7					
6					
5					
4					
3					
2					
1	LAB	LAB	2/13/15		
0	LAB	LAB	9/8/14		
	NO.	BY	APP'D	DATE	
DRAWING UPDATES					
COYOTE CREEK MINING COMPANY, L.L.C. 6502 17th Street SW Zap, ND 58545 (701) 673-7800 • Fax: (701) 673-7810					
DIVERSION CHANNEL FOR COYOTE CREEK					
SHOP-ACCESS ROAD					
SECTION 3.2.51					
SCALE: 1" = 40'					
PROJECT: NACC-1302					
REVISION: 1					

From March 10, 2015 Version of
Revision No. 1 to Permit NACC-1302

FIELD ENGINEERED
DIVERSION

