

KANSAS GEOLOGICAL SURVEY

The University of Kansas
1930 Constant Ave
Lawrence KS 66047-3726
phone 785-864-3965
fax 785-864-5317
www.kgs.ku.edu

December 28, 2005

Mr. Gary W. Rome, P.E.
Terracon Consultants, Inc.
2120 Overland Avenue, Suite 124
Billings, Montana 59102

Re: State Park #1 Reclamation Project (KS-000169), located in
Section 32, T. 29 S., R. 25. E., Crawford Co., Kansas

Dear Mr. Rome:

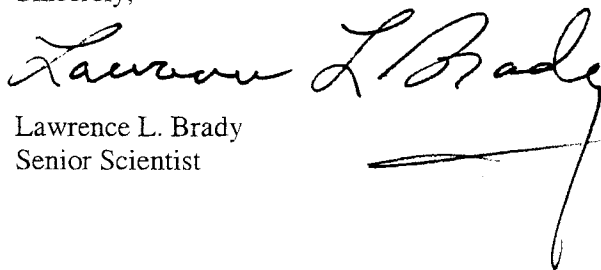
I have reviewed the information that you sent the Kansas Geological Survey concerning the proposed reclamation site titled the "State Park #1 Reclamation Project", located in northeast Crawford County, Kansas. The proposed reclamation area (KS-000169) is located in part of Section 32, T. 29 S., R. 25 E., Crawford Co., Kansas. Location of the project is on past strip-mine land disturbed by mining of the Mineral coal. This coal bed is part of the Cabaniss Formation of the Cherokee Group of rocks in southeastern Kansas.

The proposed reclamation efforts would correct problems created by past strip-mining of the Mineral coal bed in part of Section 32. Underlying the Mineral coal are the Scammon and Weir-Pittsburg coal beds. The Scammon has had very limited mining in this area due to the general thin nature of the coal bed, but the Weir-Pittsburg coal has been extensively mined in Crawford County by both underground and surface mining methods. Most of Section 32, and especially the areas that contain this reclamation project were mined in the past for the Weir-Pittsburg coal by underground room-and-pillar methods. Depth to the old mining areas in this section is about 100 to 110 feet in depth. There are areas adjacent to the reclamation project that are not mined by surface mining methods where it is possible that sometime in the future a small coal mining operation might consider mining the Mineral coal. However, this type of operation, if considered by a mining company should not have a detrimental effect on this planned reclamation effort.

Therefore, the potential for additional strip-mining or possible deep mining of coal at this proposed reclamation site is not a factor of concern. Some potential does exist for future strip mining in areas adjacent to the proposed reclamation project but not within the proposed reclamation area.

Basically, future mining should not disturb the area outlined for your proposed reclamation effort and you should continue with your reclamation plans. Best wishes on development of the reclamation project.

Sincerely,



Lawrence L. Brady
Senior Scientist

December 17, 2005

Kansas Geological Survey
Mr. Larry Brady, Deputy Director
1930 Constant Avenue, Campus West
The University of Kansas
Lawrence, KS 66047-3726

Terracon

Consulting Engineers & Scientists

Terracon Consultants, Inc.
2110 Overland Avenue, Suite 124
Billings, Montana 59102
Phone 406.656.3072
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www.terracon.com

Re: KDHE Abandoned Mine Land Reclamation
KS-00169: State Park #1 Reclamation Project

Dear Mr. Brady:

The Kansas Department of Health and Environment runs an abandoned mine reclamation program through its Surface Mining Section in Pittsburg. Currently, one of the projects in the final stages of design is called the State Park #1 Reclamation Project, as referenced. This letter is written to request a review with regard to mineral resources for the State Park #1 Reclamation Project. Enclosed for your use are drafts of the following:

- Project Title Sheet – provides site location
- Pre-Reclamation Topography – shows topography as it now exists;
- Proposed Reclamation Topography – shows proposed project.

Currently, the Park access roads run dangerously close to numerous highwall ponds left in the topography from strip mining. In an effort to mitigate the potential dangers, we have designed a plan that would either deny vehicle access or provide a separation distance of 80 feet from road edge to the nearest water's edge. The elements of the design include: 1) placing barriers to vehicle access; 2) filling ponds within or near the road corridor; 3) end-filling selected ponds including placing rock buttresses to reduce earthwork; and, 4) constructing a system of new access roads. All work would occur within the Park boundaries. Clearing of trees and shrubs will be performed within the cuts and fills plus reasonable lateral extensions along the proposed new road system.

If you have any questions, or if I can clarify anything, please call me at 406-656-3072 during business hours, Mountain Time.

Sincerely,

Terracon



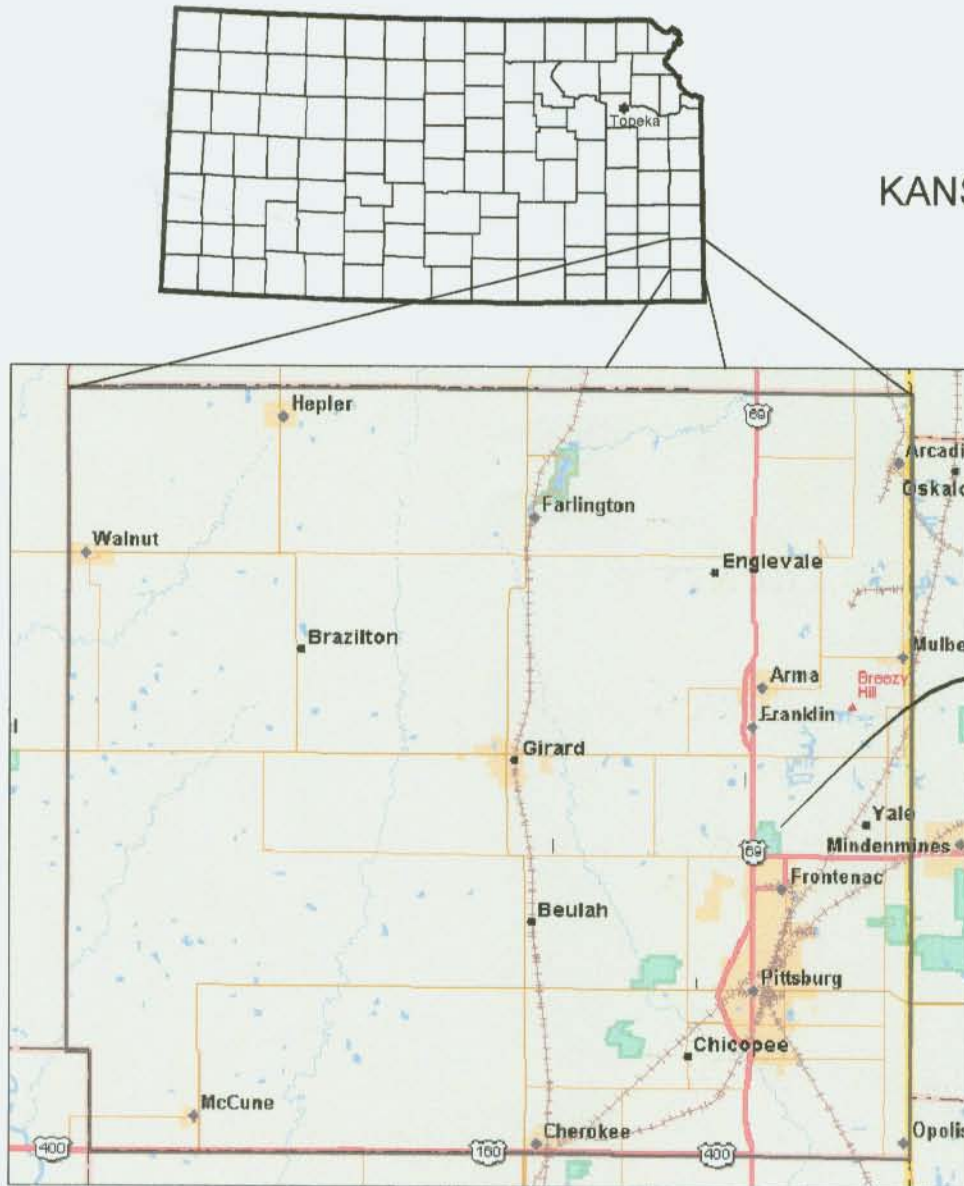
Gary W. Rome, P.E.
Senior Consultant

Enclosures

Copy to : Murray Balk, KDHE

KANSAS DEPARTMENT OF HEALTH
Bureau of Environmental Remediation
Abandoned Mine Land Reclamation

STATE PARK #1 RECLAMATION PROJECT
KS-0016



CRAWFORD COUNTY

APPROVED:

GARY BLACKBURN
DIRECTOR, BER

Date

MAP SHEET INDEX

SHEET	DESCRIPTION
1	Project Title Sheet
2	Pre-Reclamation Topography
3	Proposed Reclamation Topography

HEALTH & ENVIRONMENT

Division, Surface Mining Section

Reclamation Program

RECLAMATION PROJECT

9



STATE PARK #1 RECLAMATION PROJECT AREA
Section 32, T29S, R25E; Crawford County, Kansas

Rev.	Date	Description	By	Ckd.	App.



SURFACE MINING SECTION
4033 Potholes Drive
Topeka, KS 66618
800-221-6640

2110 Overland Avenue, Suite 124
Billings MT 59102
406-566-3072

Terracon

State Park #1 Reclamation Project KS-00169
Project Title Sheet

File: Title Sheet.dwg

GWR

Drawn

September 2004

Date

26047011

Job #

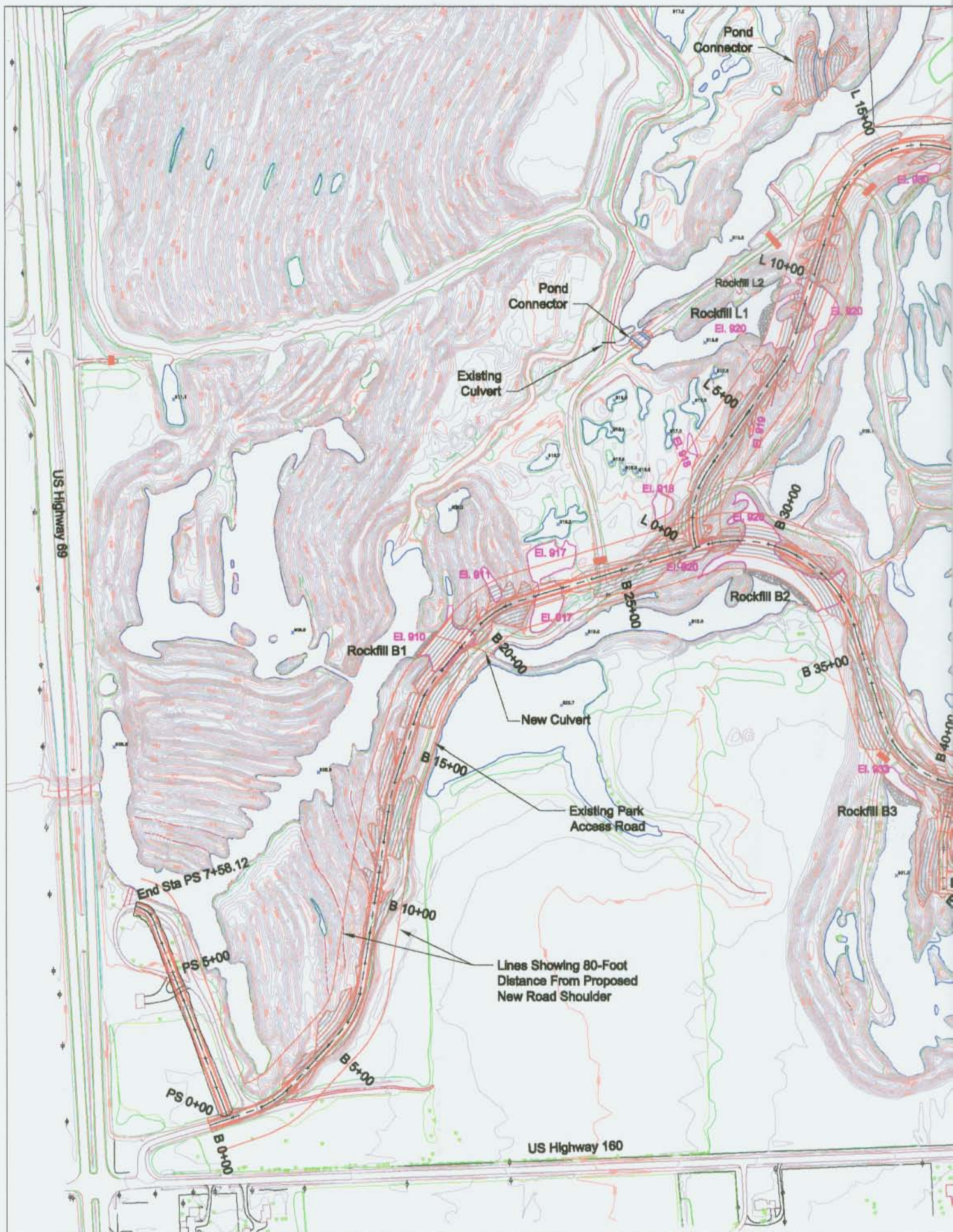
Sheet 1/3

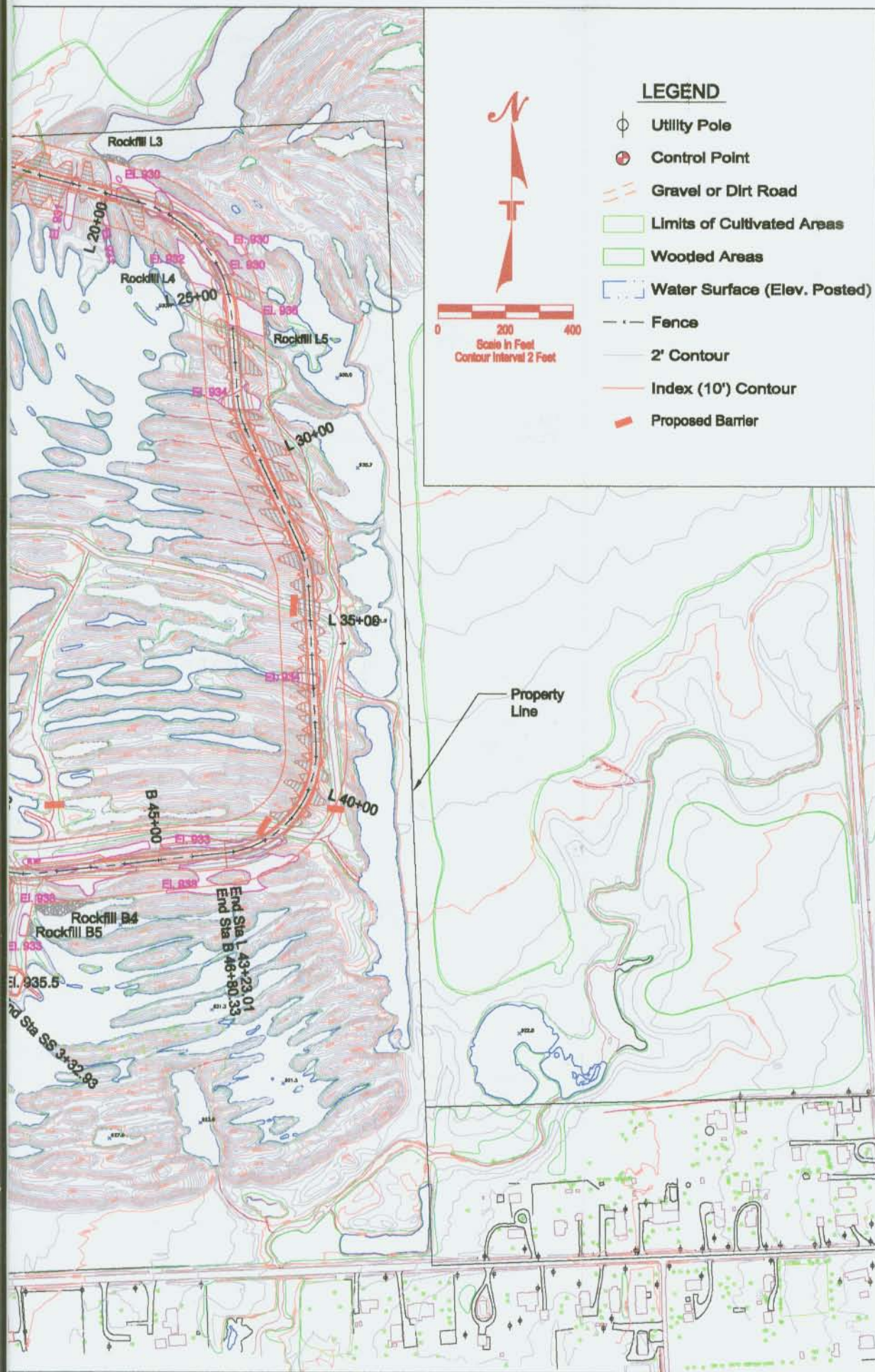


US Highway 89

Existing Park
Access Road

US Highway 160





LEGEND

- Utility Pole
- Control Point
- - - Gravel or Dirt Road
- Limits of Cultivated Areas
- Wooded Areas
- Water Surface (Elev. Posted)
- - - Fence
- 2' Contour
- Index (10') Contour
- █ Proposed Barrier

0 200 400
Scale in Feet
Contour Interval 2 Feet

State Parks #1 Reclamation Project Proposed-Reclamation Topography: December 2005



SURFACE MINING SECTION
4033 Parkway Drive
Butte, MT 59703
406-251-8640

2110 Overland Avenue, Suite 124
Butte MT 59702
406-595-3072

Job # 26047011

Date December 2005

Drawn

GWR

File: Design 3.dwg

Rev.	Date	Description	By	Ckd.	Apd.
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APPROVED:

GARY BLACKBURN
DIRECTOR, BER

Date

Sheet 3/3