

0001

BEAVER CREEK Coal Company
P. O. Box AU
Price, Utah 84501
Telephone 801 637-5050

File AET/007/016



Route to Wayne
and others for
review & comment
JWS

October 23, 1980

Mr. Don Crane
Director, Region V
Office of Surface Mining
Brooks Towers
1020 Fifteenth Street
Denver, Colorado 80202

RECEIVED

OCT 27 1980

Re: Gordon Creek #2 Mine
Lease Modification
Mining & Reclamation Plan

DIVISION OF
OIL, GAS & MINING

CERTIFIED MAIL #P23 0791738

Dear Mr. Crane:

Enclosed please find seven (7) copies of Beaver Creek Coal Company's
submittal to comply with Special Stipulation #1 (Part E, F & G) and
#2 for our Gordon Creek #2 Mine Lease Modification Plan.

It is our hope these plans will meet with your approval.

Respectfully,

Dan W. Guy, P.E.
Chief Engineer

DWG/rh

Enclosures

cc: J. Smith, Utah OG&M
Ben Costello, ARCO Permits
File

GORDON CREEK #2 MINE
Mining & Reclamation Plan
Special Stiuptions #1-E & F

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DIVISION OF
OIL, GAS & MINING

Special Stipulations #1-E & F
Haulroads, Culverts & Ditches & Maintenance

- 1) General - Access and haulroads, culverts, ditches, and road right-of-way are, and shall be maintained and reclaimed to the extent practicable to prevent additional contributions of suspended solids to streamflow or runoff.

- 2) Construction - All roads are adequately drained and all water control structures are designed with a discharge capacity capable of passing the peak runoff from a ten-year, 24-hour precipitation event. Culvert locations are shown on the attached map. Also shown is an additional culvert on the haulroad as specified by Special Stipulation #1-E. The ability of these culverts to handle the peak runoff has been demonstrated in the calculations in Exhibit #6 (previously submitted).

- 3) Maintenance - Access and haul roads are surfaced with a durable gravel material, and are routinely maintained by wetting, scraping, and re-surfacing as necessary. Ditches and other drainage controls are also routinely maintained to provide adequate control along the roads.

The additional culvert will provide for lower water velocity along the road, and the use of belting and rip-rap at culvert outlets will minimize erosional effects.

Straw dikes will be placed in the haulroad ditch to prevent additional contributions of oil and grease to the natural streamflow.

Coal will not be used on the road. The bank below the road berm will also be revegetated to prevent additional sediment loading to the stream.

GORDON CREEK #2 MINE
MINING & RECLAMATION PLAN
SPECIAL STIPULATION #2
Backfilling & Regrading Plan

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OCT 27 1980

DIVISION OF
OIL, GAS & MINING

SPECIAL STIPULATION #2
Backfilling & Regrading Plan

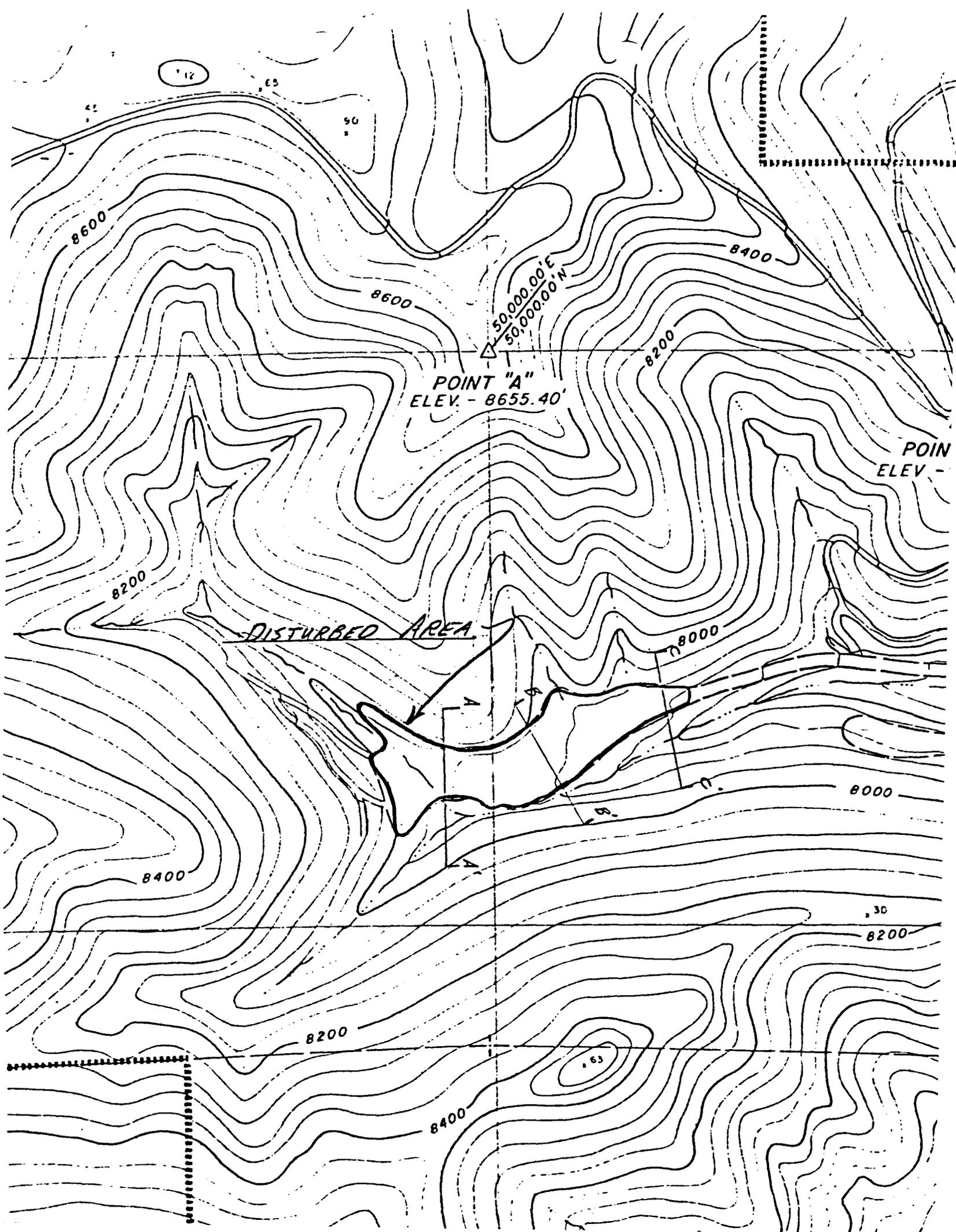
- 1) Upon completion of underground mining in this area, surface work areas shall be regraded to a contour compatible with proposed post-mining land uses: sheep and cattle grazing; wildlife habitat; hunting and hiking (as allowed by landowners).
- 2) The surface of this area was originally disturbed in late 1969 by a previous owner. The surface is all privately owned. Since no major effort was made at that time to save or store any topsoil or other material, restoration to approximately original contour is highly impractical. However, it is the intent of Beaver Creek Coal Company to restore the area to a form acceptable to the landowner using such materials that are available at the site.
- 3) All portals shall be sealed and covered. All highwalls shall be eliminated by backfilling, to the extent practical and allowed by the landowner. Natural bluffs or cliffs will be left to make the reclaimed area more compatible with the surrounding area. All roads shall be eliminated to the extent allowed by the landowner. All culverts shall be removed and major natural drainage patterns restored to the extent practical.
- 4) The backfilling shall be accomplished by the use of a backhoe or other equipment capable of reaching over the fill areas to reclaim material. This material shall then be placed along the portal highwalls to moderate the slopes. Additional backfilling material may be recovered in the excavation and restoration of natural drainage patterns. A map of the disturbed areas to be reclaimed is attached, along with several cross-sections of the proposed reclamation.

Topsoil, as available at the site, shall be spread over the reclaimed area to the extent deemed necessary, and the reclaimed areas planted with an approved seed mixture.

Rills and gullies deeper than nine (9) inches shall be regraded or otherwise stabilized.

All acid-forming, toxic-forming, or combustible materials, such as coal, shall be covered with a minimum of two (2) feet of incombustible material.

- 5) The natural drainage pattern through the disturbed area shall be restored to an acceptable gradient and stabilized by the use of substantial rip-rap material. The rip-rap shall be six (6)-inches-plus sandstone, gravel, or other non-degradable material to prevent erosion of the stream bed. The drainage area will be further stabilized by reseeding as mentioned above.



12

65

90

8600

8600

50,000.00' E
50,000.00' N

8400

POINT "A"
ELEV. - 8655.40'

POINT
ELEV. -

8200

DISTURBED AREA

8000

8000

8400

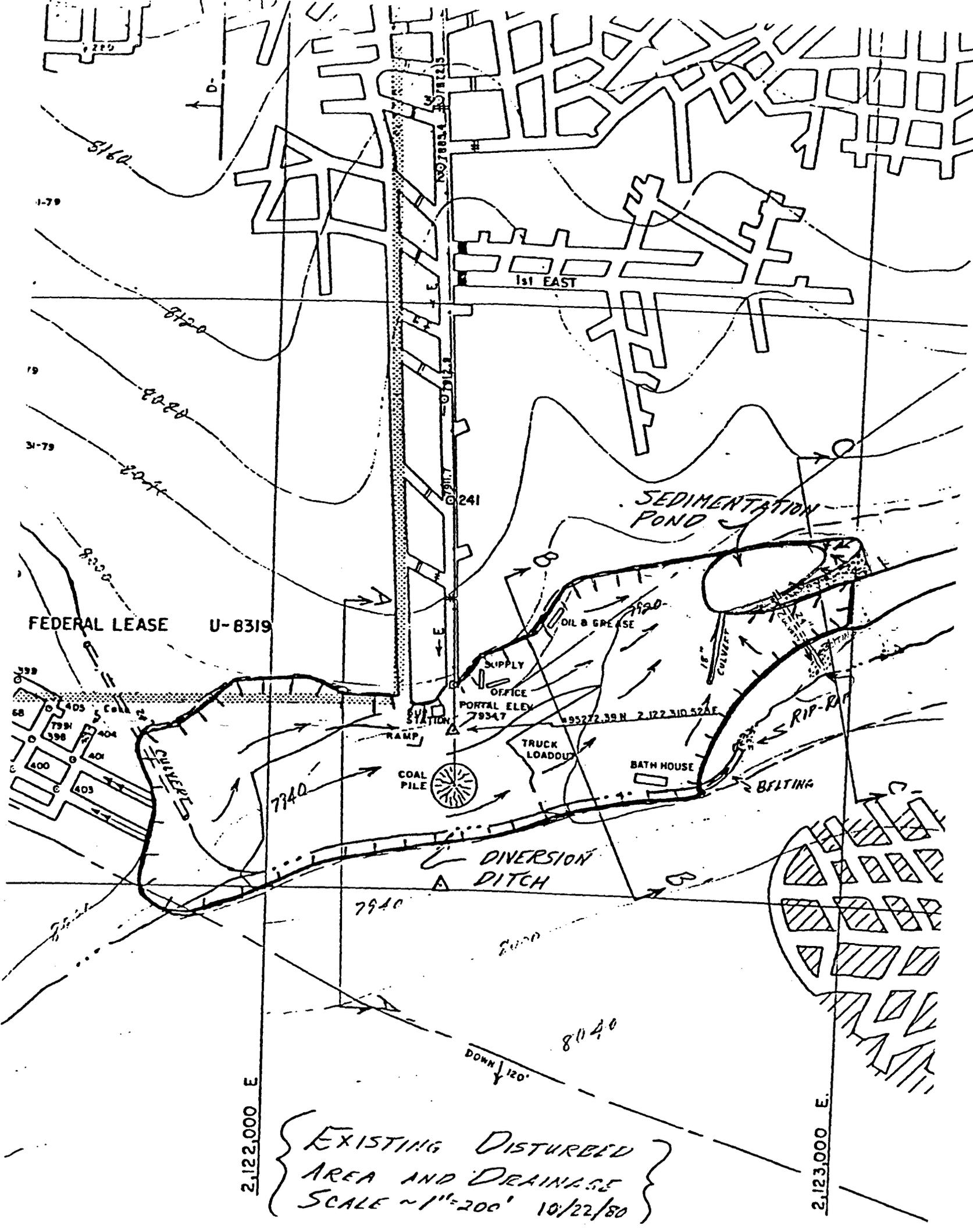
8200

30

8200

63

8400



FEDERAL LEASE U-8319

SEDIMENTATION POND

SUPPLY OFFICE

PORTAL ELEV. 7934.7

TRUCK LOADING

BATH HOUSE

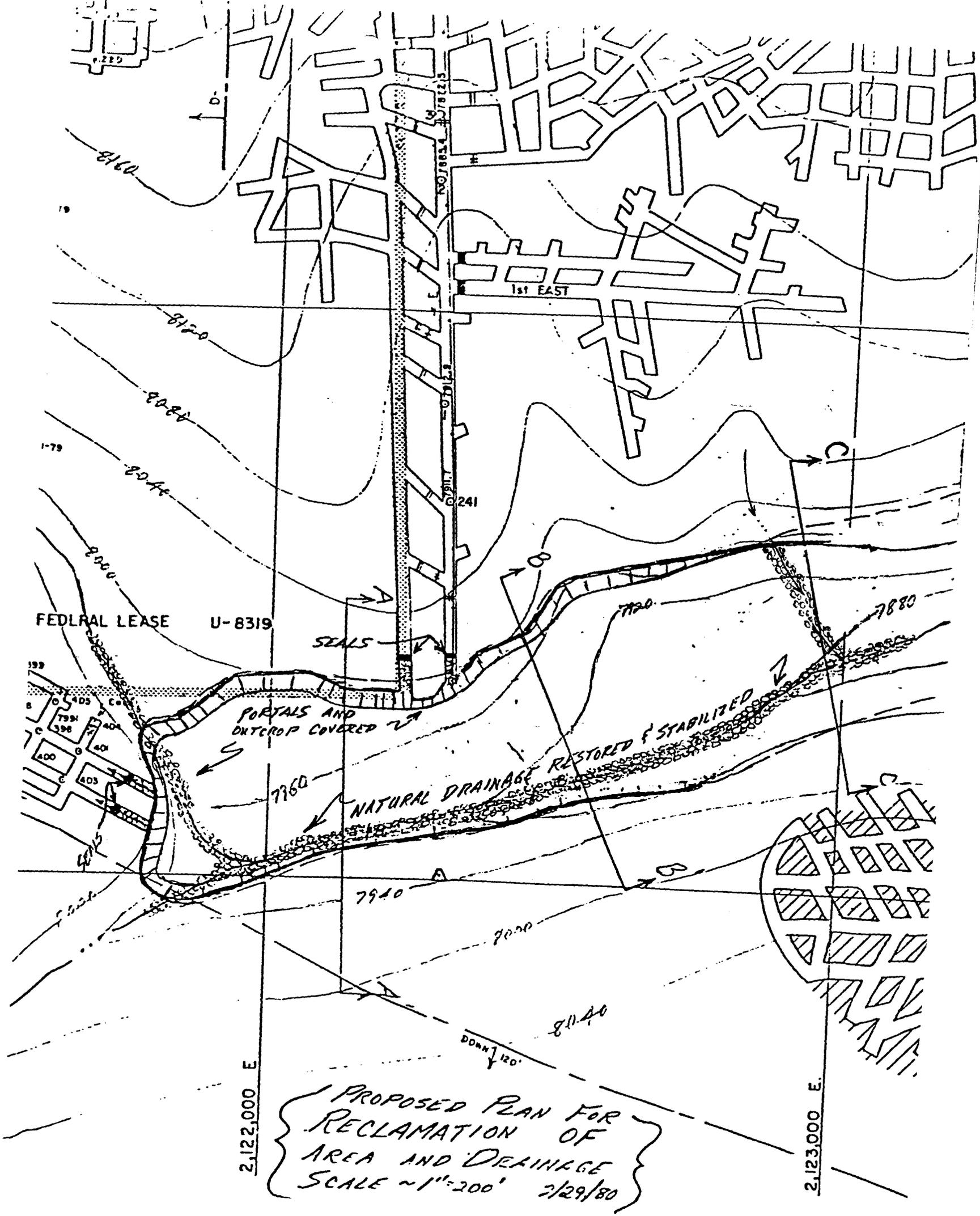
COAL PILE

DIVERSION DITCH

2,122,000 E

2,123,000 E

EXISTING DISTURBED AREA AND DRAINAGE
SCALE ~ 1"=200' 10/22/80



FEDERAL LEASE U-8319

1st EAST

SEALS

PORTALS AND OUTCROP COVERED

NATURAL DRAINAGE RESTORED & STABILIZED

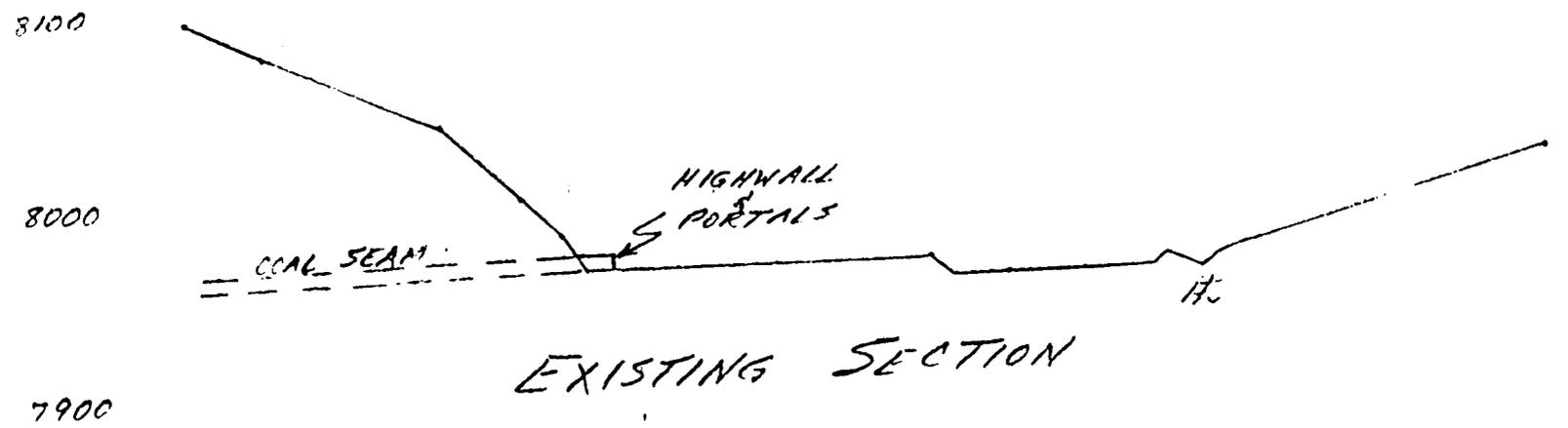
2,122,000 E

2,123,000 E

PROPOSED PLAN FOR RECLAMATION OF AREA AND DRAINAGE SCALE ~ 1"=200' 2/29/80

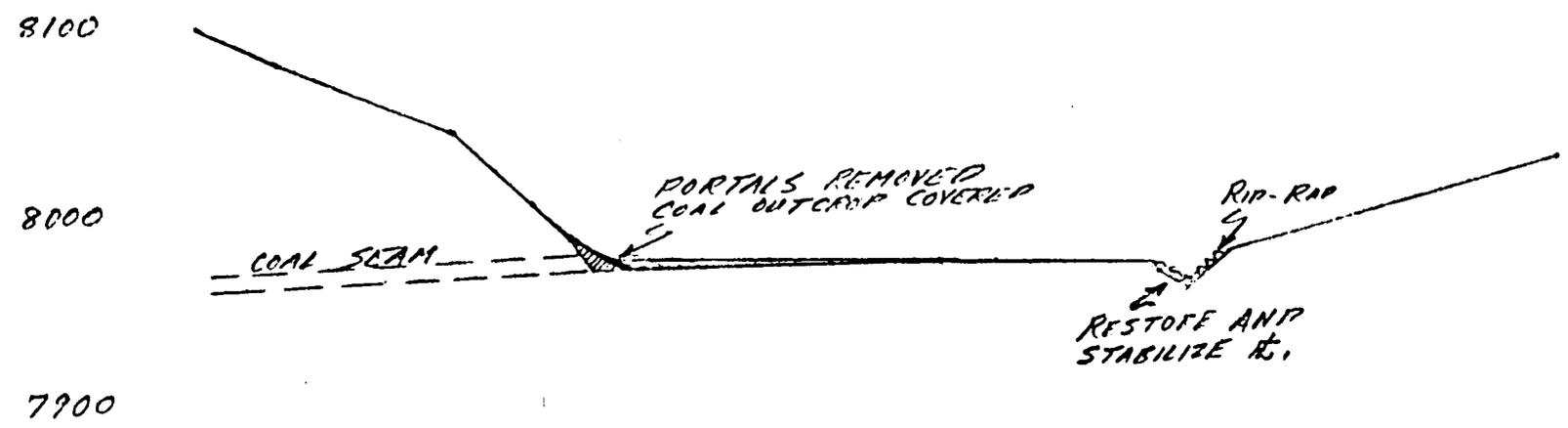
DOWN 120'

X-SECTION A-A'
SCALE ~ 1" = 100'



EXISTING SECTION

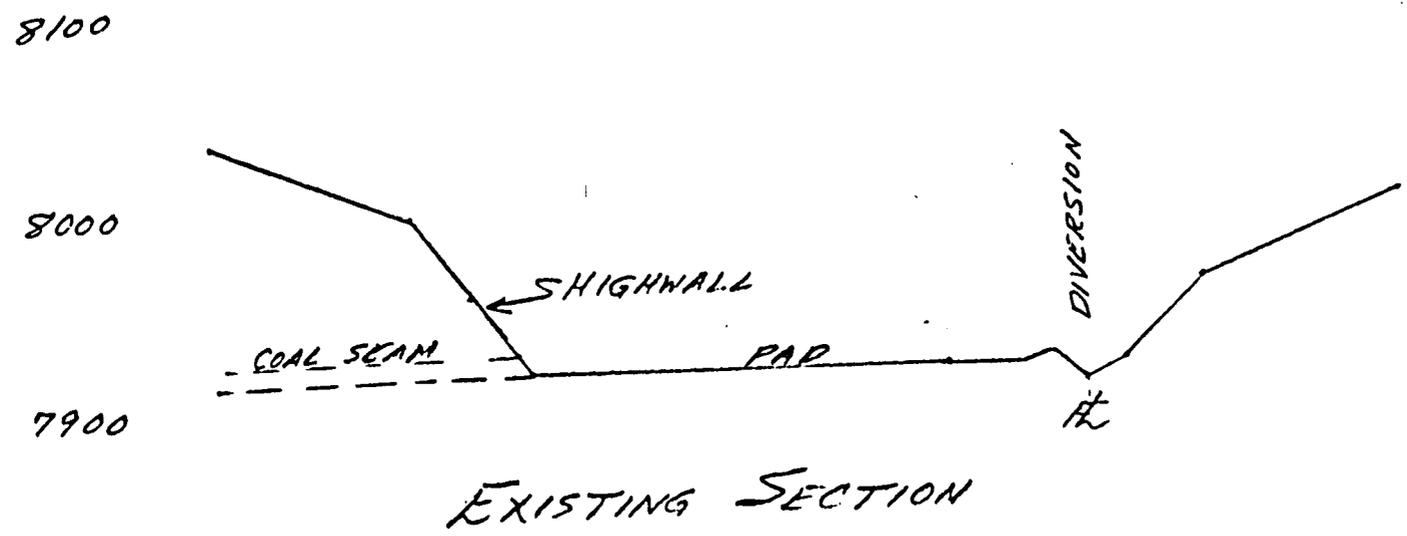
NOTE: ALL DISTURBED AREAS RECLAIMED AND/OR RESEED.



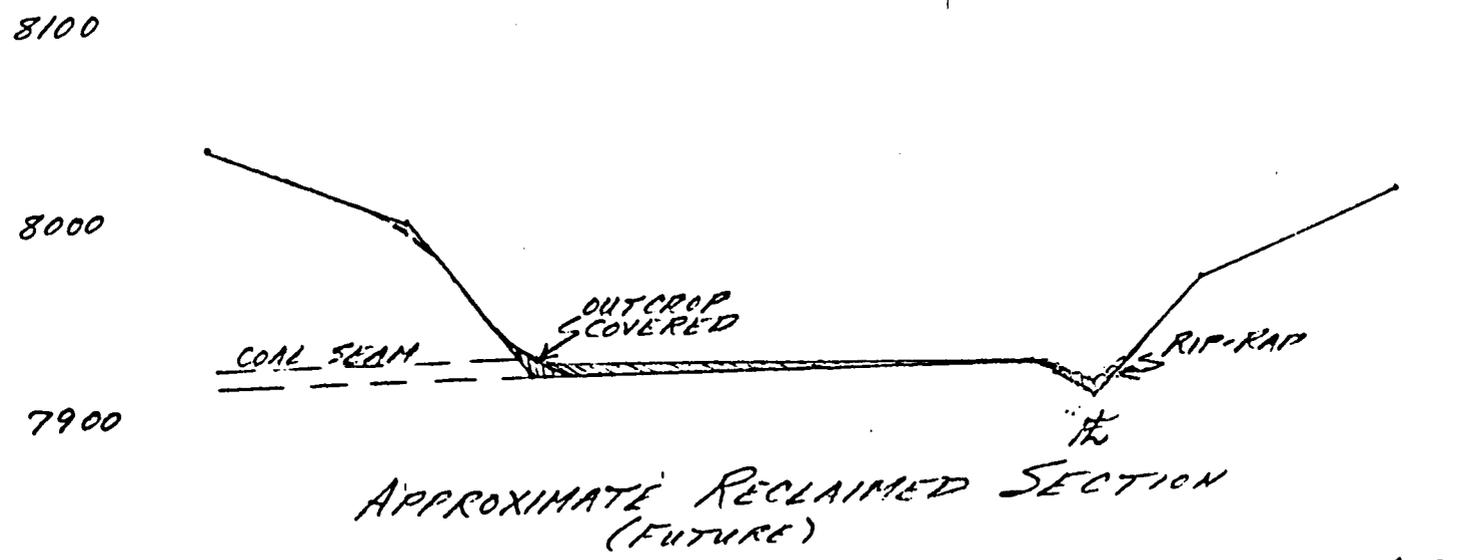
APPROXIMATE RECLAIMED SECTION (FUTURE)

100 200 300 400 500 600 700
 A'

X-SECTION B-B'
SCALE ~ 1" = 100'

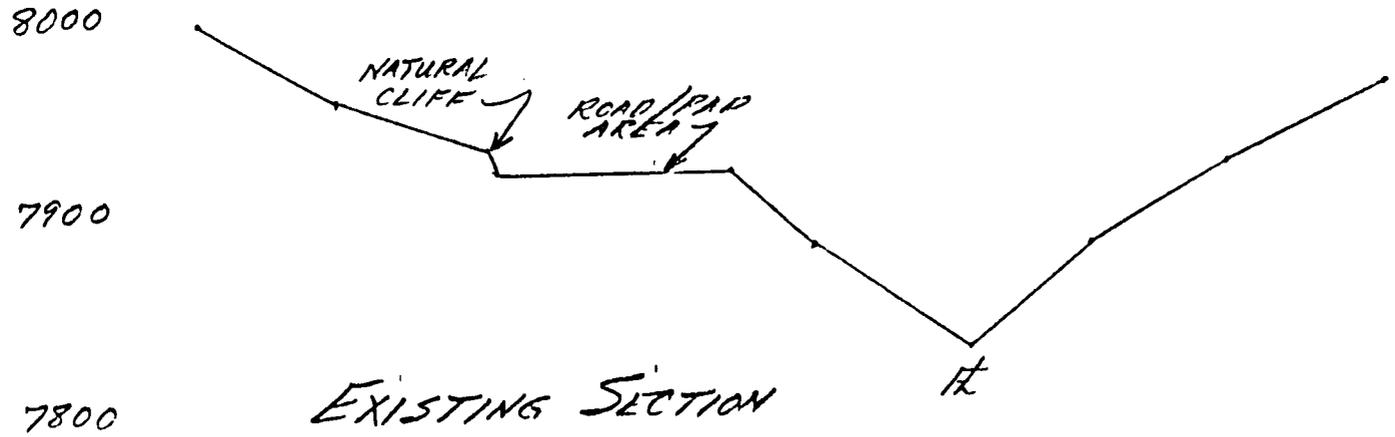


NOTE: ALL DISTURBED AREAS
RECLAIMED AND/OR
RESEEDDED.

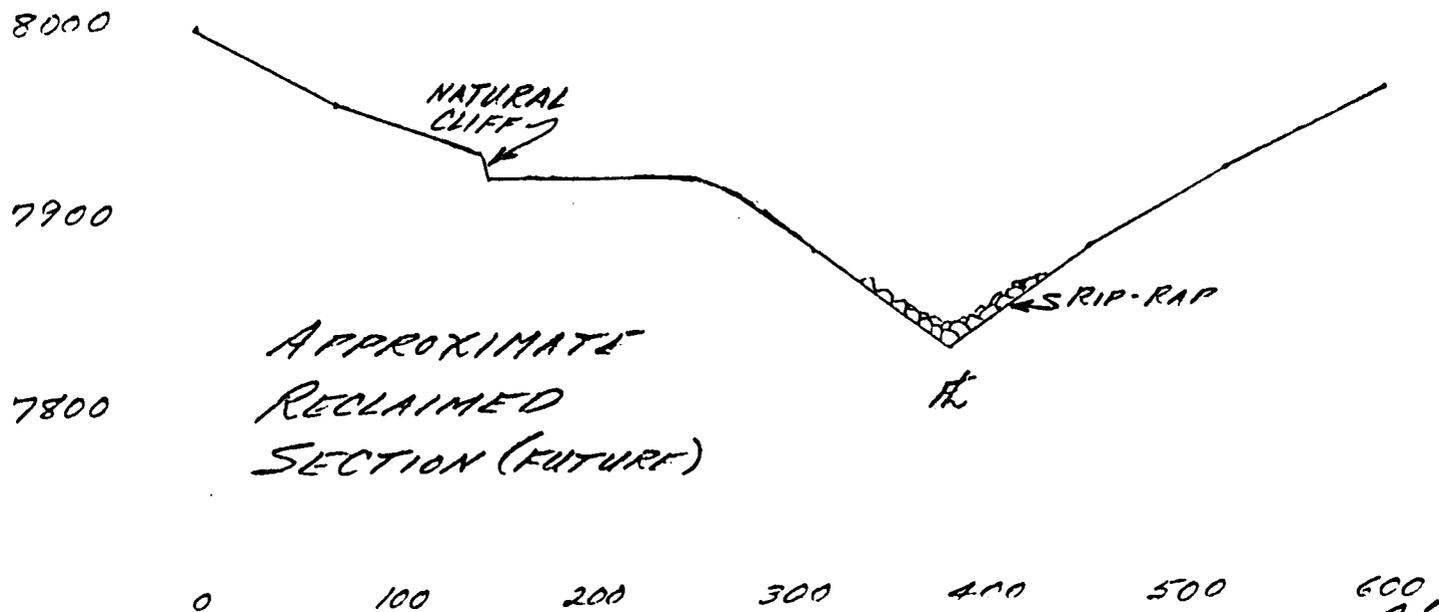


0 100 200 300 400 500 600
B'

X-SECTION C-C'
SCALE 1"=100'



NOTE: ALL DISTURBED AREAS
RECLAIMED AND/OR
RESEEDED.



GORDON CREEK #2 MINE
Mining & Reclamation Plan
Special Stipulation #1-G

RECEIVED

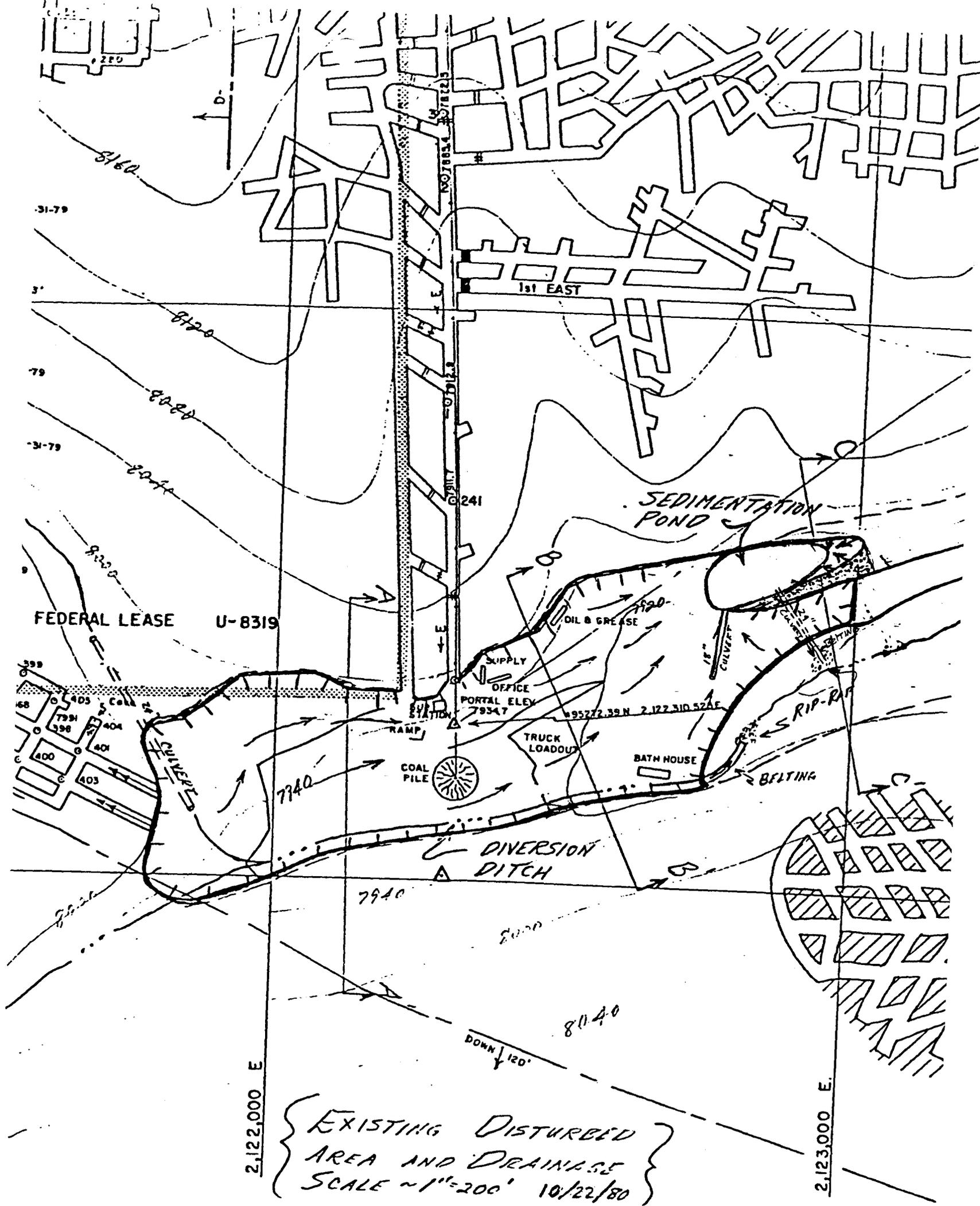
OCT 27 1999

DIVISION OF
OIL, GAS & MINING

Special Stipulation #1-G
Control of Runoff Along Portals & Road Berm

- 1) Control of runoff along eastern edge of portals -- This area will be resloped (as per the attached map) to direct runoff from this area to the sedimentation pond.

- 2) Control of runoff from the road safety berm -- The slopes below the berm will be stabilized by revegetation. This will occur this fall, using an approved seed mixture and mulching/stabilizing techniques. Once vegetation is established on this slope, no further contributions of sediment is expected from this area.



FEDERAL LEASE U-8319

2,122,000 E

EXISTING DISTURBED
 AREA AND DRAINAGE
 SCALE ~ 1"=200' 10/22/80

2,123,000 E