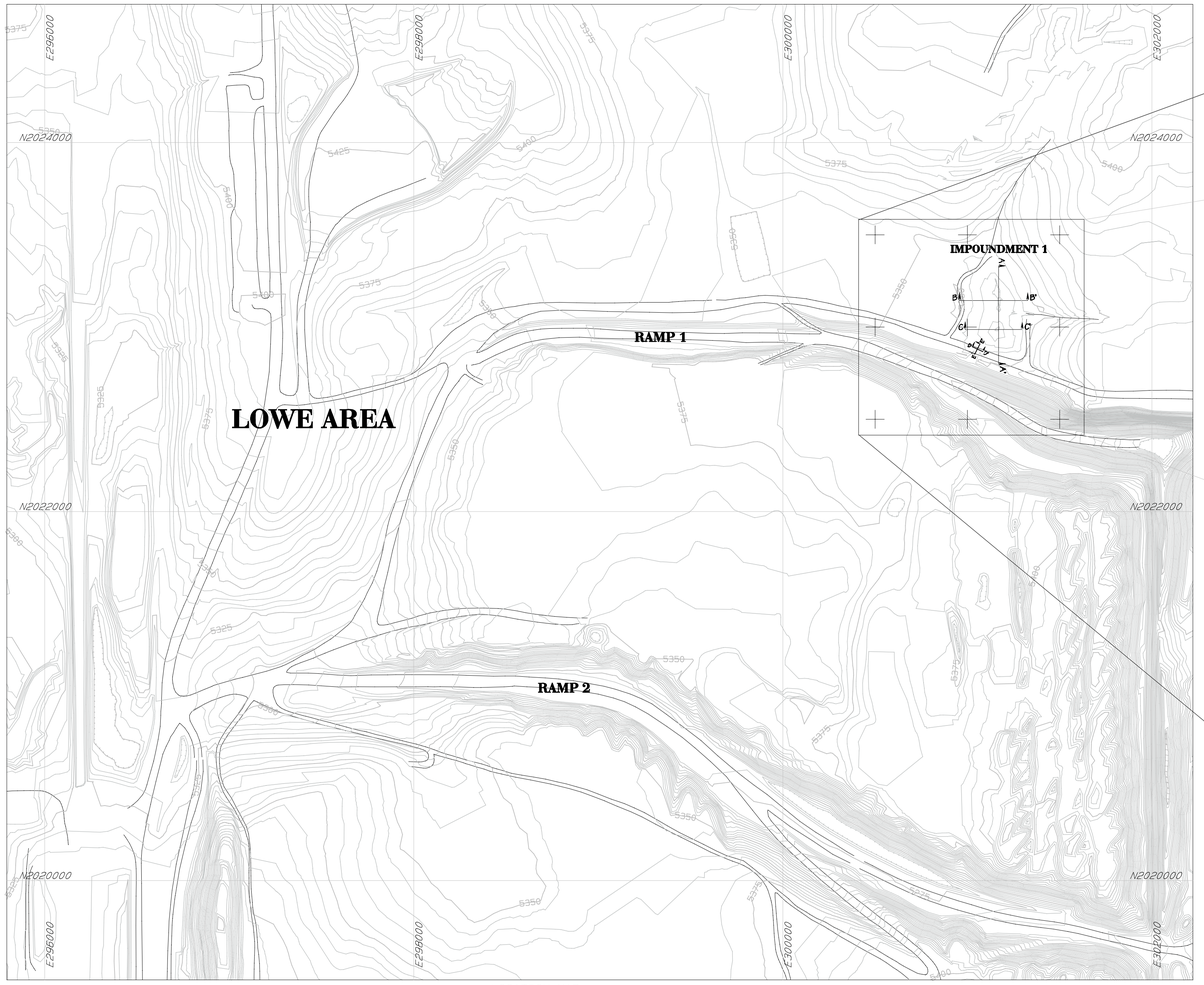
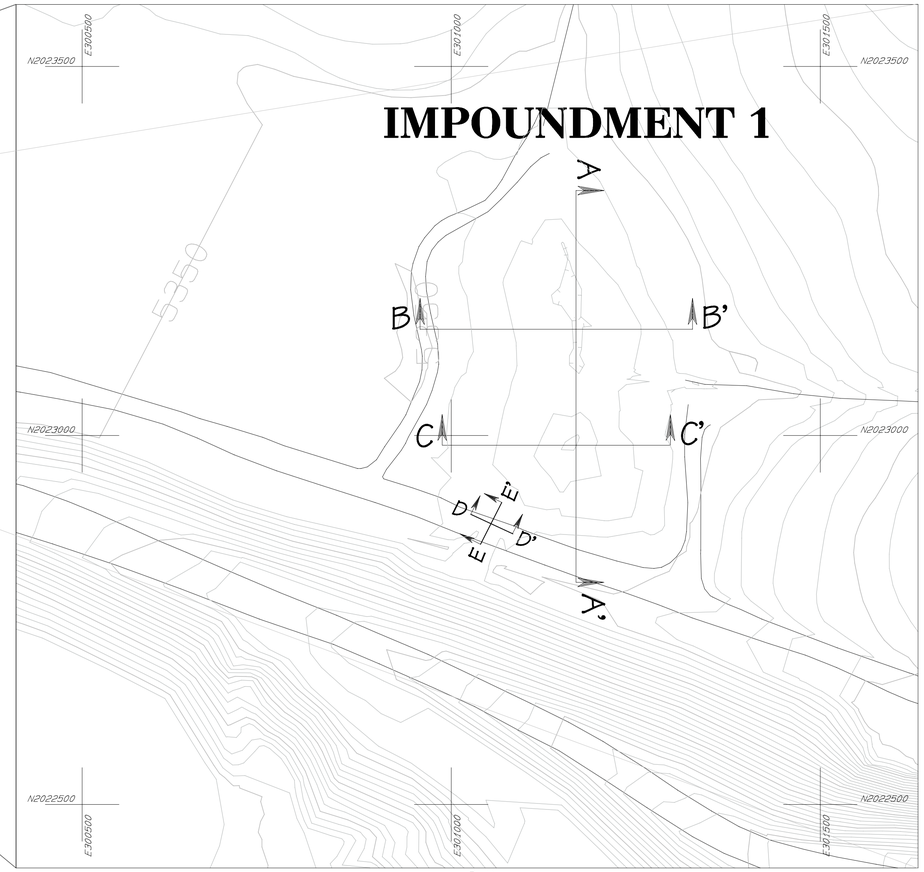
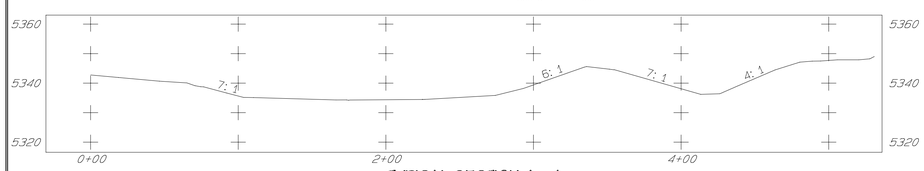


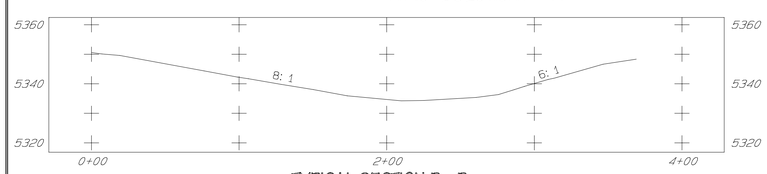
LOCATION MAP
Scale: 1" = 400'



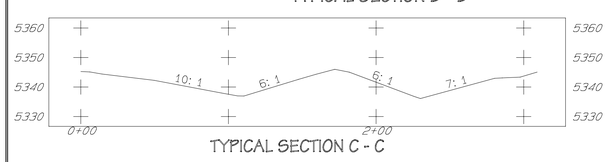
PLAN
Scale: 1" = 100'



TYPICAL SECTION A - A

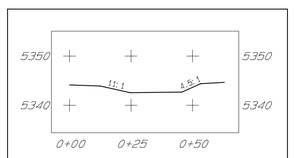


TYPICAL SECTION B - B

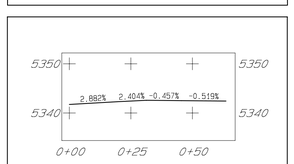


TYPICAL SECTION C - C

ABOVE 3 SECTIONS
HORIZ: 1" = 50'
VERTICAL: 1" = 25'



PROFILE D-D'



PROFILE E-E'

ABOVE 2 PROFILES
HORIZ: 1" = 30'
VERTICAL: 1" = 15'

STAGE STORAGE DATA

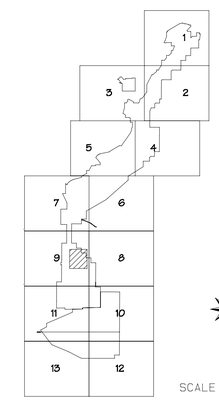
ELEV feet	AREA acres	VOLUME ac-ft	CUM. VOLUME ac-ft
5334.2	0.00	0.00	0.00
5335	0.07	0.03	0.03
5336	0.21	1.14	0.16
5337	0.44	0.48	0.64
5338	0.74	0.59	1.23
5339	0.99	0.87	2.10
5340	1.25	1.12	3.22
5341	1.52	1.38	4.60
5342	1.84	1.61	6.21
5342.5	2.07	0.98	7.19
5343	2.21	1.07	8.23
5344	2.64	2.42	10.65
5345	3.20	2.92	13.57
5346	3.77	3.48	17.05

LEGEND

- ROAD
- WATERSHED
- BUILDING
- FENCE
- IRRIGATION LINE
- CULVERT
- DAM
- DRAINAGE
- RAILROAD
- POWERLINE
- ×5338.5 SPOT ELEVATION
- 5300 INDEX CONTOUR
- 5298 INTERMEDIATE CONTOUR
- PERMIT/LEASE BOUNDARY

NOTES

1. For hydrology and design information refer to Appendix 12-E in the approved PAP.



SCALE AS NOTED

CERTIFICATION STATEMENT

I, Leonard Raymond, hereby certify that this impoundment has been constructed in accordance with approved design plans and that the information shown is complete and accurate to the best of my knowledge, except as noted below.

LEONARD RAYMOND
NEW MEXICO
6600
REGISTERED PROFESSIONAL ENGINEER

1. The design for the inlet structures are being re-evaluated and will be submitted for approval.

REV NO.	DESCRIPTION	REV BY	DATE
1	IS-BUILT SUBMITTED TO OSM FOR REVIEW	RT	8-20-03
2	RE-SUBMITTED AS-BUILT AND SUBMITTED TO OSM FOR REVIEW	PJP	12-05-06
3			
4			

PROJECT MANAGER: DR
ENGR. of RECORD: LB
REG. NO: 6600
SRVYR of RECORD:
REG. NO:

BHP NAVAJO COAL CO.
NAVAJO MINE
PO BOX 1717, FRUITLAND, NEW MEXICO, 87416

ACCOUNT:
DATE: August 20, 2003
DESIGNED BY:
DRAWN BY: RYAZZIE
CHECKED BY: LB
APPROVED BY: LB

PLAN, PROFILE AND SECTION

EXHIBIT-12-43A
LOWE PERMANENT IMPOUNDMENT 1
AS – BUILT

DRAWING

SHEET 1
OF 1