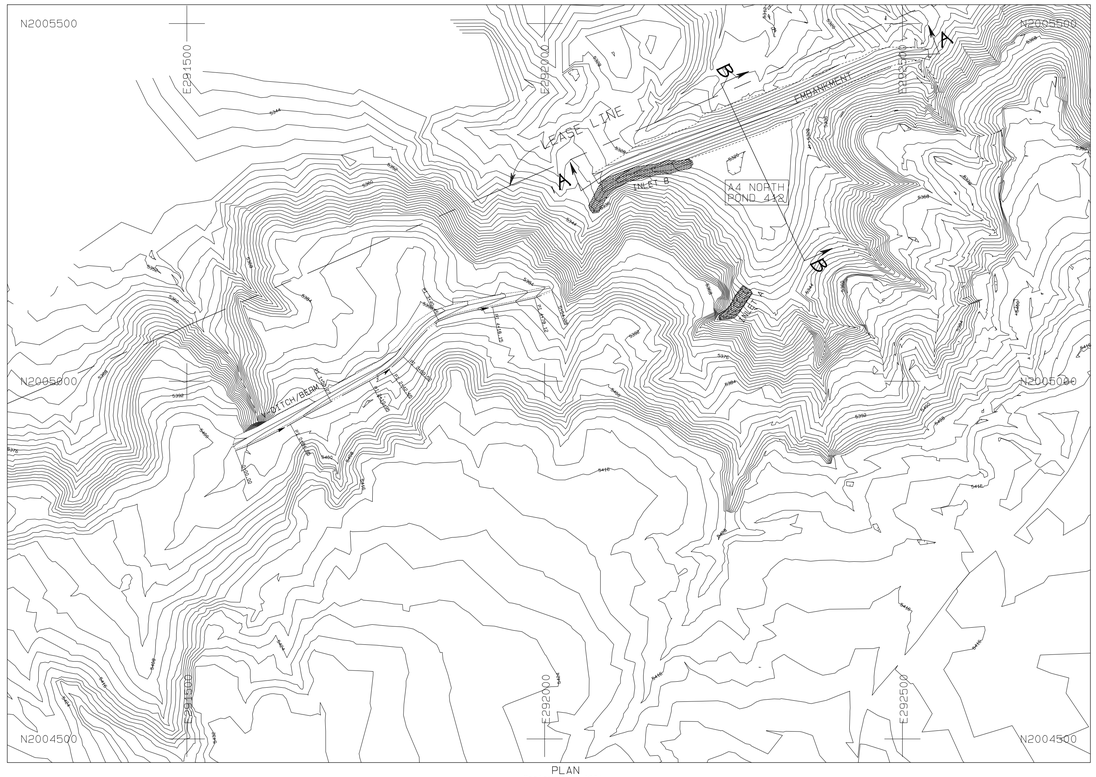


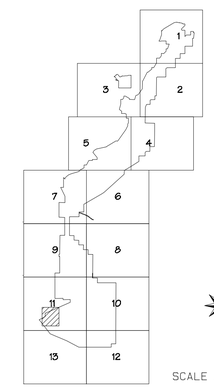
PLAN
Scale: 1" = 100'

LEGEND

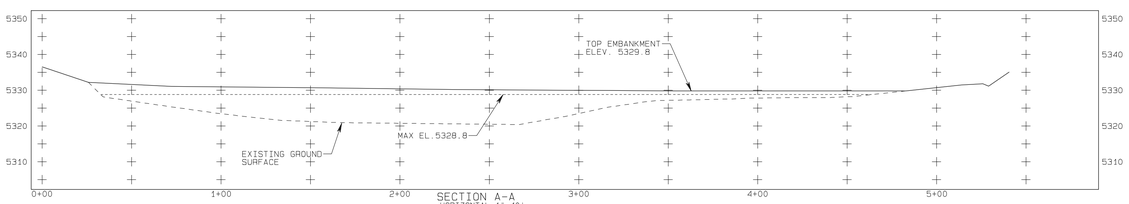
- ROAD
- WATERSHED
- BUILDING
- DRAIN DITCH
- IRRIGATION LINE
- CULVERT
- DAM
- DRAINAGE
- RAILROAD
- TREES
- POWERLINE
- ×5338.5 SPOT ELEVATION
- 5300 INDEX CONTOUR
- 5298 INTERMEDIATE CONTOUR
- 218 5422.45
- L-30 LEASE CORNER
- PERMIT/LEASE BOUNDARY

NOTES

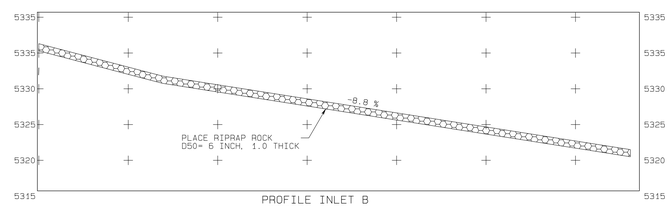
1. For hydrology and design information refer to Appendix 11-A4 in the approved PAP.
2. The watershed areas for Impoundment and pond locations are shown on Exhibit 11-13F.



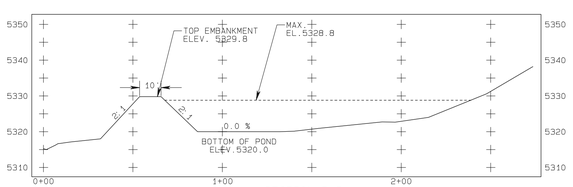
SCALE AS NOTED



SECTION A-A
HORIZONTAL=1"=40'
VERTICAL=1"=20'



PROFILE INLET B
HORIZONTAL=1"=20'
VERTICAL=1"=10'



SECTION B-B
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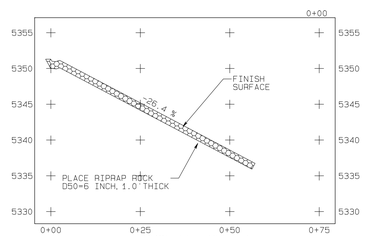
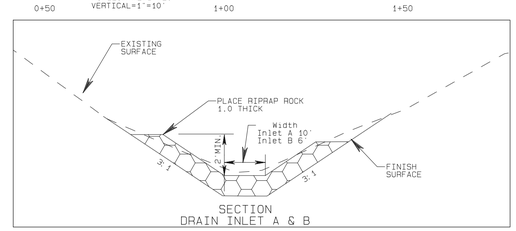
VERTICAL=1"=20'



PROFILE INLET A
HORIZONTAL=1"=20'
VERTICAL=1"=10'

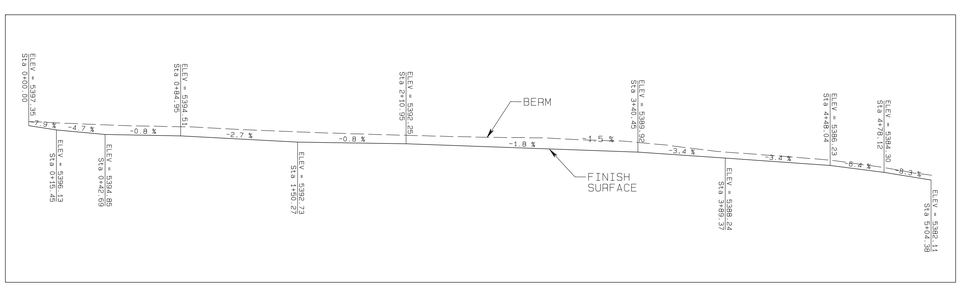


SECTION
DRAIN INLET A & B

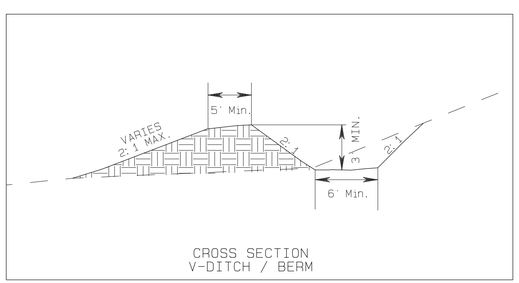
STAGE STORAGE DATA

ELEV feet	AREA acres	VOLUME ac-ft	CUM. VOLUME ac-ft
5320	1.01	0.0	0.0
5321	1.17	0.1	0.09
5322	0.23	0.2	0.29
5323	0.29	0.3	0.55
5324	0.35	0.3	0.87
5325	0.41	0.4	1.24
5326	0.46	0.4	1.68
5327	0.52	0.5	2.17
5328	0.59	0.6	2.72
5329	0.67	0.6	3.36
5330	0.75	0.7	4.07

Pond Crest Elevation	5329.8
As-Built Volume @ Crest (Ac-Ft)	3.9
Design Max. Water Elevation	5328.8
Capacity @ Max. Water Elevation	3.2



PROFILE OF V-DITCH/BERM
HORIZONTAL=1"=40'
VERTICAL=1"=20'



CROSS SECTION
V-DITCH / BERM

CERTIFICATION STATEMENT

I, Ron C. VAN VALKENBURG, hereby certify that this structure has been constructed in accordance with the approved design plans and that the information shown is complete and accurate to the best of my knowledge except as noted below:

1. Minor elevation differences for pond contour resulted in smaller capacity. The smaller as-built capacity will contain the design 100-yr 6-hr storm event.

Ron C. VAN VALKENBURG
NEW MEXICO
9263
LICENSED PROFESSIONAL ENGINEER

REV NO.	DESCRIPTION	REV BY	DATE
1	SUBMITTED TO OSM FOR APPROVAL	RV	11-30-10
2	SUBMITTED TO OSM FOR APPROVAL	RV	01-26-11
3	Prepared As-Built for AM Post CLR and Submitted to OSM for Approval (SMT03)	PF	07-29-10
IT4	SUBMITTED TO OSM FOR REVIEW AND APPROVAL	PF	01-26-11

PROJECT MANAGER: FG
ENGR. of RECORD: RCV
REG. NO. 9263
SRVYR of RECORD:
REG. NO.

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

ACCOUNT:
DATE: 01-26-10
DESIGNED BY: RV
DRAWN BY: RV
CHECKED BY: RCV
APPROVED BY: RCV

PLAN, PROFILE AND SECTION

EXHIBIT 11-111
AREA 4 NORTH POND 412
AS-BUILT

DRAWING

SHEET 1
OF 1

Path: G:\Projects\FCO\11\Exh 11-111_A4N Pd 412\OSM Subm10111\Exh 11-111_A4N Pond 412 As-Built.prp