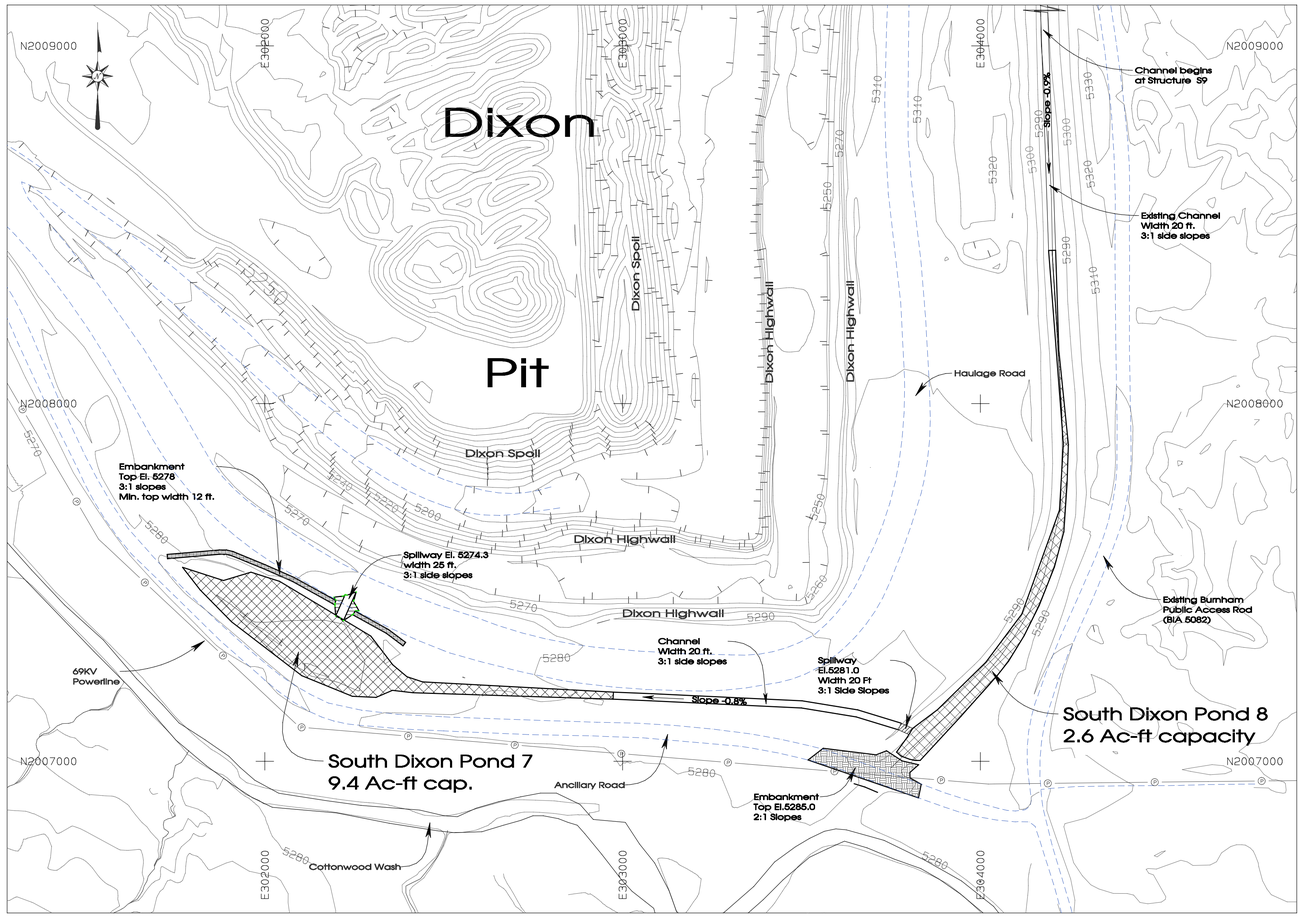
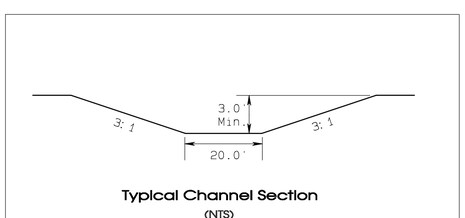
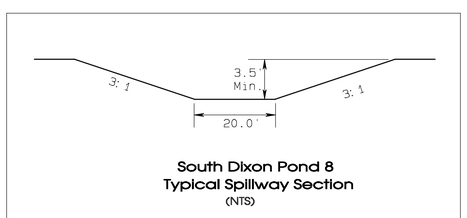


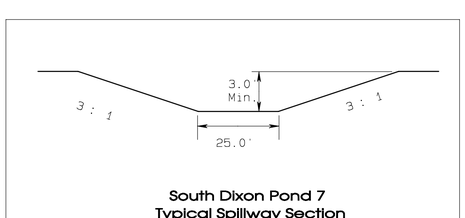
PLAN LAYOUT
SCALE: 1"=200'
CONTOUR INTERVAL: 10 '



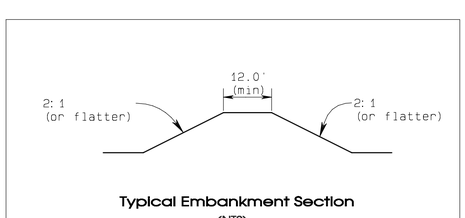
Typical Channel Section
(NTS)



South Dixon Pond 8
Typical Spillway Section
(NTS)



South Dixon Pond 7
Typical Spillway Section
(NTS)



Typical Embankment Section
(NTS)

SOUTH DIXON POND 7 STAGE STORAGE DATA

ELEV feet	AREA acres	VOLUME ac-ft	CUM. VOLUME ac-ft
5268	0.35	0.00	0.00
5269	0.50	0.5	0.5
5270	1.09	0.8	1.3
5271	1.44	1.3	2.5
5272	1.75	1.6	4.1
5273	2.17	2.0	6.1
5274	2.54	2.4	8.5
5275	2.97	2.8	11.2

Design Volume (Ac-Ft.) 9.2
Design Spillway Elevation 5274.30

SOUTH DIXON POND 8 STAGE STORAGE DATA

ELEV feet	AREA acres	VOLUME ac-ft	CUM. VOLUME ac-ft
5277	0.27	0.00	0.00
5278	0.55	0.40	0.40
5280	0.78	1.3	1.7
5281	0.95	.9	2.6

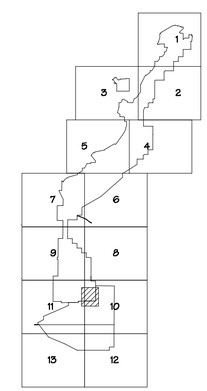
Design Volume (Ac-Ft.) 2.6
Design Spillway Elevation 5281.0

LEGEND

- ROAD
- WATERSHED
- BUILDING
- FENCE
- 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-AA in the approved PAP.
2. Watershed Data is located on Exhibit 11-13E.
3. See Table 11-7 for Impoundment information.
4. There are no minimum water or sediment volume requirements for these impoundments.



SCALE AS NOTED

CERTIFICATION STATEMENT

I, Ron C. Van Valkenburg, hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

RON C. VAN VALKENBURG
NEW MEXICO
9263
LICENSED PROFESSIONAL ENGINEER

REV NO.	DESCRIPTION	REV BY	DATE
1	DESIGN FOR SOUTH DIXON POND 7 AND 8, SUBMITTED TO OSM FOR REVIEW	PJF	11-20-08
2	RESUBMITTED DESIGN FOR SOUTH DIXON POND 7 AND 8, TO OSM FOR REVIEW	PJF	2-02-09

PROJECT MANAGER: FERGUSON GORMAN
ENGR. OF RECORD: RON VAN VALKENBERG
REG. NO. 9263
SRMTR OF RECORD: RES. ORG.

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

ACCOUNT:
DATE: NOV. 20, 2008
DESIGNED BY: PJF/GTR
DRAWN BY: PJF/GTR
CHECKED BY: RON VAN VALKENBERG
APPROVED BY:

PLAN, PROFILE AND SECTION

EXHIBIT 11-38
SOUTH DIXON POND 7 AND POND-8 DESIGN

DRAWING

SHEET 1 OF 1

L:\DWG\NAV\SMCRD\Dixon Permits\SOUTH DIXON PAP\PJF EXHIBITS\11-38B-S.DIXON POND-7&8\EXH11-38B-S.DIXON POND-7&8.dwg
PJF/GTR Thu Feb 05 15:07:16 2009