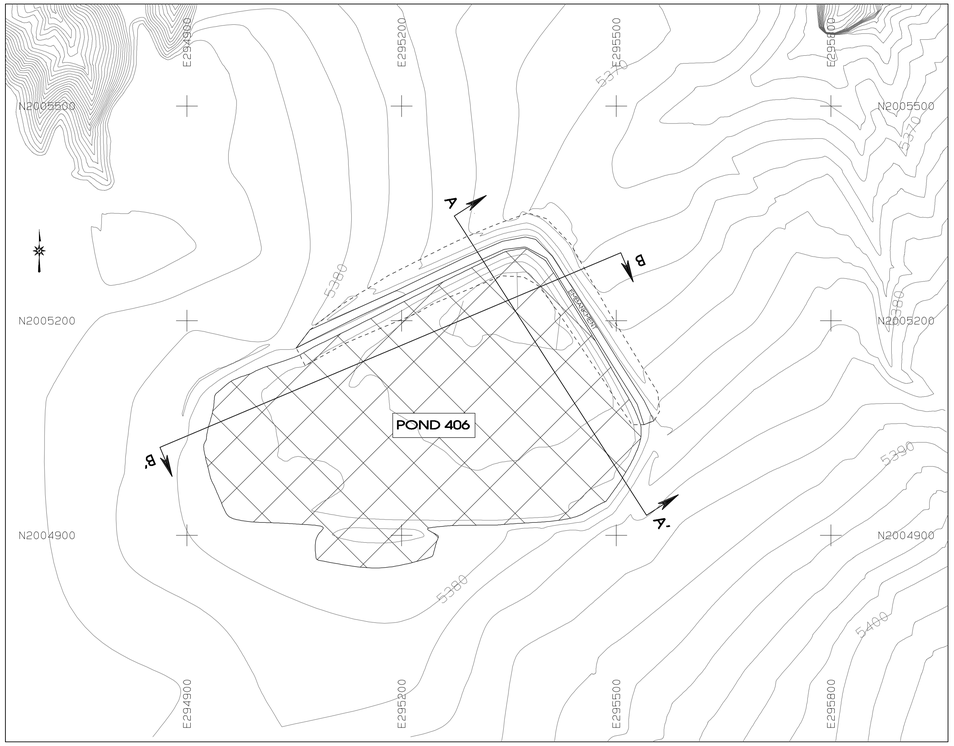


PLAN VIEW

CONTOUR INT: 2 FT
SCALE: 1"=100'

LEGEND

- ROAD
- BUILDING
- FENCE
- CULVERT
- DRAINAGE
- POWERLINE
- 5300 INDEX CONTOUR
- 5298 INTERMEDIATE CONTOUR
- PERMIT/LEASE BOUNDARY

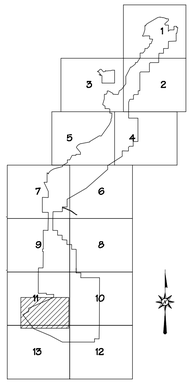
NOTES

1. For location of drainage control structures and watersheds, refer to Exhibit 11-13F
2. The hydrology and supporting design data for the drainage control structures are referenced on Table 11-5 of the NM PAP.

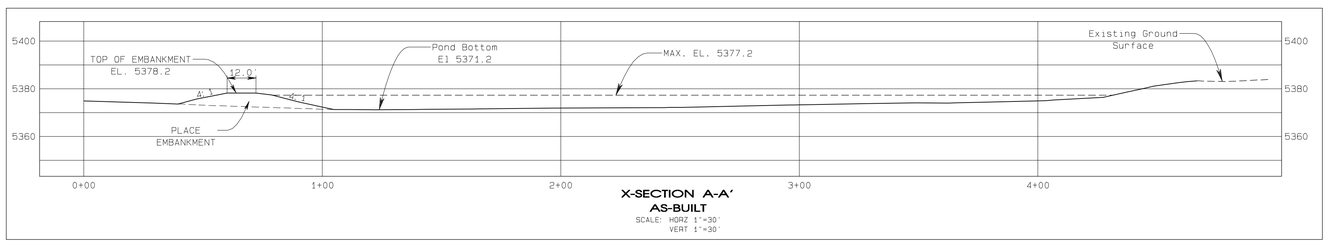
STAGE STORAGE DATA

ELEV feet	AREA acres	VOLUME ac-ft	CUM. VOLUME ac-ft
5371.2	0.00		
5372	0.29	0.1	0.1
5373	0.88	0.6	0.7
5374	1.47	1.2	1.9
5375	2.35	1.9	3.8
5376	3.00	2.7	6.5
5377	3.49	3.2	9.7
5378	3.83	3.7	13.4
5379	4.17	4.0	17.4

Crest of Embankment 5378.2
As-Built Volume at Crest Elevation 14.2

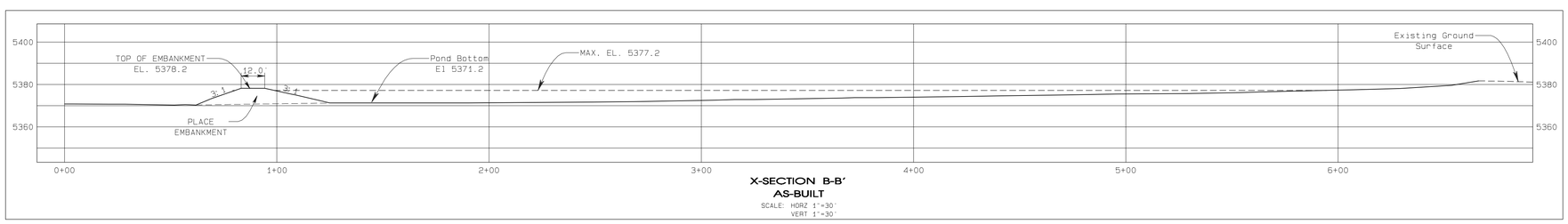


SCALE AS NOTED



X-SECTION A-A'
AS-BUILT

SCALE: HORZ 1"=30'
VERT 1"=30'



X-SECTION B-B'
AS-BUILT

SCALE: HORZ 1"=30'
VERT 1"=30'

CERTIFICATION STATEMENT

I, Ron C. Van Valkenburg, hereby certify that this embankment 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. Only minor elevation differences for pond bottom and embankment crest.

RON C. VAN VALKENBURG
NEW MEXICO
9263
LICENSED PROFESSIONAL ENGINEER

REVISION	DATE
09-4 UPDATED AND DEVELOPMENT AND SUBMITTED TO OSM FOR REVIEW	8/28/09
10-4 REPORTED AS-BUILT FOR AREA4 NORTH POND-406 AND	4-19-10
11-4 SUBMITTED TO OSM FOR REVIEW AND APPROVAL.	1-26-2011

PROJECT MANAGER: F. GORMAN
ENGR. of RECORD: RON C. VAN VALKENBURG
REG. NO: NM 9263
SRVYR of RECORD:
REG. NO:

bhpbilliton
NAVAJO COAL COMPANY
NAVAJO MINE
PO BOX 1717, FRUITLAND, NEW MEXICO, 87416 PHONE 505-598-3209/FAX 505-598-3361

PROJECT: AAN
DATE: AUG.8.2009
DESIGNED BY: RCV
DRAWN BY: PJFOSTER
CHECKED BY: RCV
APPROVED BY: RCV

PLAN, PROFILE AND SECTION

EXHIBIT 11-156
AREA 4 NORTH
POND 406
As-Built

DRAWING

SHEET
OF 0

G:\GS\Permit F\Ch 11\Ch 11-156_AAN Pd 406\OSM Subm-120111\Ch 11-156_Pond-406_As-Built.pro
Wed Jan 26 12:42:08 2011