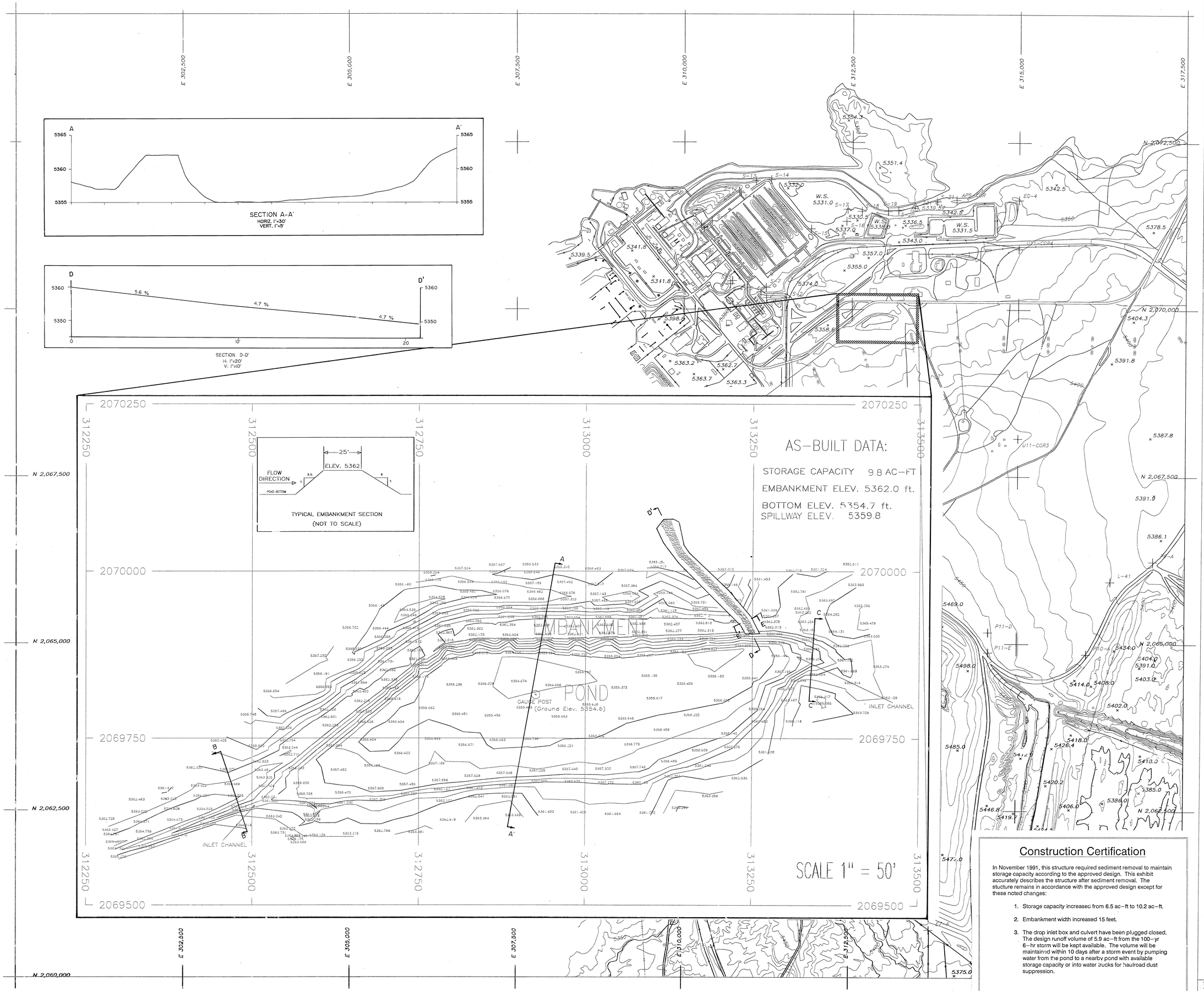

LEGEND

- PAVED ROAD
- DIRT ROAD
- HAUL ROAD
- TRAIL
- BUILDING
- FENCE
- IRRIGATION LINE
- CULVERT
- DAM
- DRAINAGE
- RAILROAD
- TREES
- POLES
- × 5338.5 SPOT ELEVATION
- 5390 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- 218 5422.45 HORIZ. & VERT. CONTROL
- L-30 LEASE CORNER
- GAUGE POST

Emma's pond

Elevation	Contour Area (Ac)	Increm. Volume (Ac-ft)	Cumulative Volume (Ac-ft)	Reserve Volume (Ac-ft)
5354.7	0.00	0.00	0.00	10.24
5355.0	0.16	0.02	0.02	10.22
5356.0	1.33	0.75	0.77	9.47
5357.0	2.00	1.67	2.43	7.81
5358.0	2.50	2.25	4.68	5.56
5359.0	2.79	2.65	7.33	2.91
5360.0	3.03	2.91	10.24	-0.00

CAPACITY @ 5359.8 - 9.66 Ac-Ft

1		
3	2	
5	4	
7	6	
9	8	
11	10	
13	12	

NOTES :

1. REFER TO APPENDIX 11-D FOR HYDROLOGY DATA
2. WATERSHED AREA IS PRESENTED ON EXHIBIT 11-13B

500 0 500 1000

CONTOUR INTERVAL: 10'
DATE OF PHOTOGRAPHY: 10-26-91

Construction Certification

In November 1991, this structure required sediment removal to maintain storage capacity according to the approved design. This exhibit accurately describes the structure after sediment removal. The stucture remains in accordance with the approved design except for these noted changes:

1. Storage capacity increased from 6.5 ac-ft to 10.2 ac-ft.
2. Embankment width increased 15 feet.
3. The drop inlet box and culvert have been plugged closed. The design runoff volume of 5.9 ac-ft from the 100-yr 6-hr storm will be kept available. The volume will be maintained within 10 days after a storm event by pumping water from the pond to a nearby pond with available storage capacity or into water trucks for haulroad dust suppression.

Prepared by
InfoSearch
Denver, Colorado

EXHIBIT II-33

BHP MINERALS INTERNATIONAL
NAVAJO MINE
FRUITLAND, NEW MEXICO

EMMA'S POND "AS-BUILT"

REVI. NO.	DATE	REVISIONS	APPROVALS: DRAFT BY	ENGR.	CHIEF ENGR.	PROJECT MGR.
1	8/24/95	CHANGE EXH. NO. TO 11-33 AND CO NAME	JG			
2	7-31-94	ADDED AS BUILT OVERFLOW LOCATION AND SECTIONS D-D' AND E-E'	PJF			
3	4-14-04	UPDATED EXHIBIT AND SUBMITTED TO OSM FOR REVIEW	PJF	LR		

DRAWN BY SYP SCALE 1" = 500'
APPROVED BY DATE 01/23/92
DRAWING NO LOCATION NO MF-D2