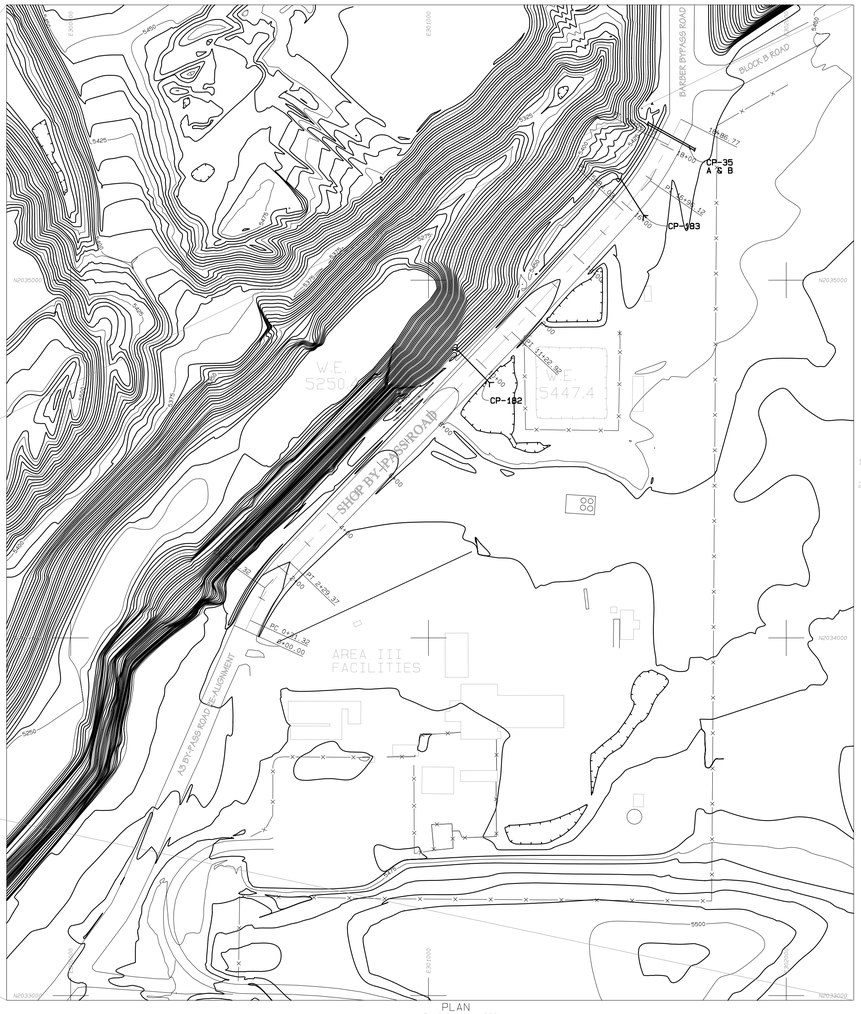
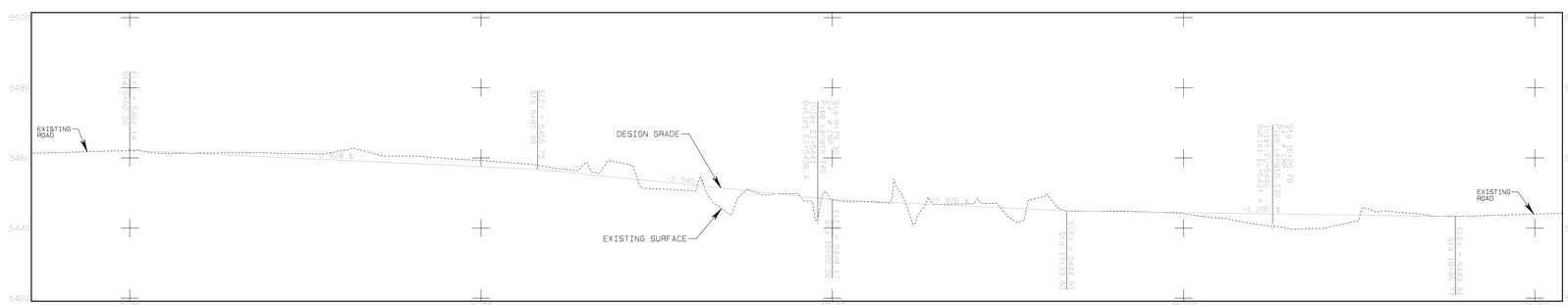
LOCATION MAP
Scale: 1" = 1000'

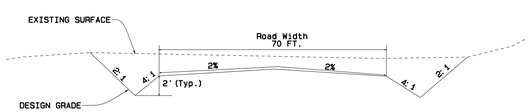


PLAN
Scale: 1" = 200'

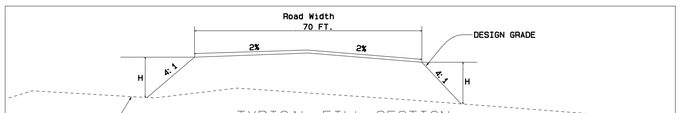
N
W E
S



PROFILE
HORIZONTAL: 1"=100'
VERTICAL: 1"=20'

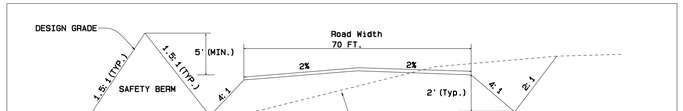


TYPICAL CUT SECTION



TYPICAL FILL SECTION

H ≤ 4.0' SIDE SLOPE = 4:1
H > 4.0' SIDE SLOPE =2:1 WITH SAFETY BERM



TYPICAL CUT / FILL SECTION

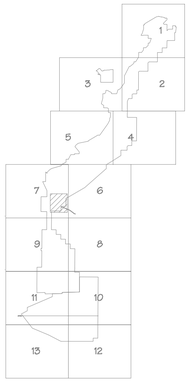
ABOVE TYPICAL SECTIONS
N.T.S

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 LEASE CORNER
- L-30 PERMIT/LEASE BOUNDARY

NOTES

1. For hydrology and design information refer to Appendix II-V in the approved PAP.
2. The watershed areas for culverts are shown on Exhibit 11-12D.



SCALE AS NOTED

CERTIFICATION STATEMENT

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

LEONARD RAYMOND
NEW MEXICO
6600
REGISTERED PROFESSIONAL ENGINEER

REV NO.	DESCRIPTION	REV DATE
1	SUBMITTED TO OSM FOR APPROVAL	04-14-04
2		
3		
4		
5		

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

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

ACCOUNT:
DATE: April 14, 2004
DESIGNED BY: RY
DRAWN BY: RY
CHECKED BY: LR
APPROVED BY:

PLAN, PROFILE AND SECTIONS

EXHIBIT 11-61
SHOP BY-PASS ROAD DESIGN

DRAWING

SHEET 1
OF 1

Path: G:\Departments\GIS\GIS_Stuff\PIP_PROJ\CH_11\11-061 Shop Bypass Ro\Exhibit\Shop By-pass Road Design.dwg