

N-9 MINING AREA

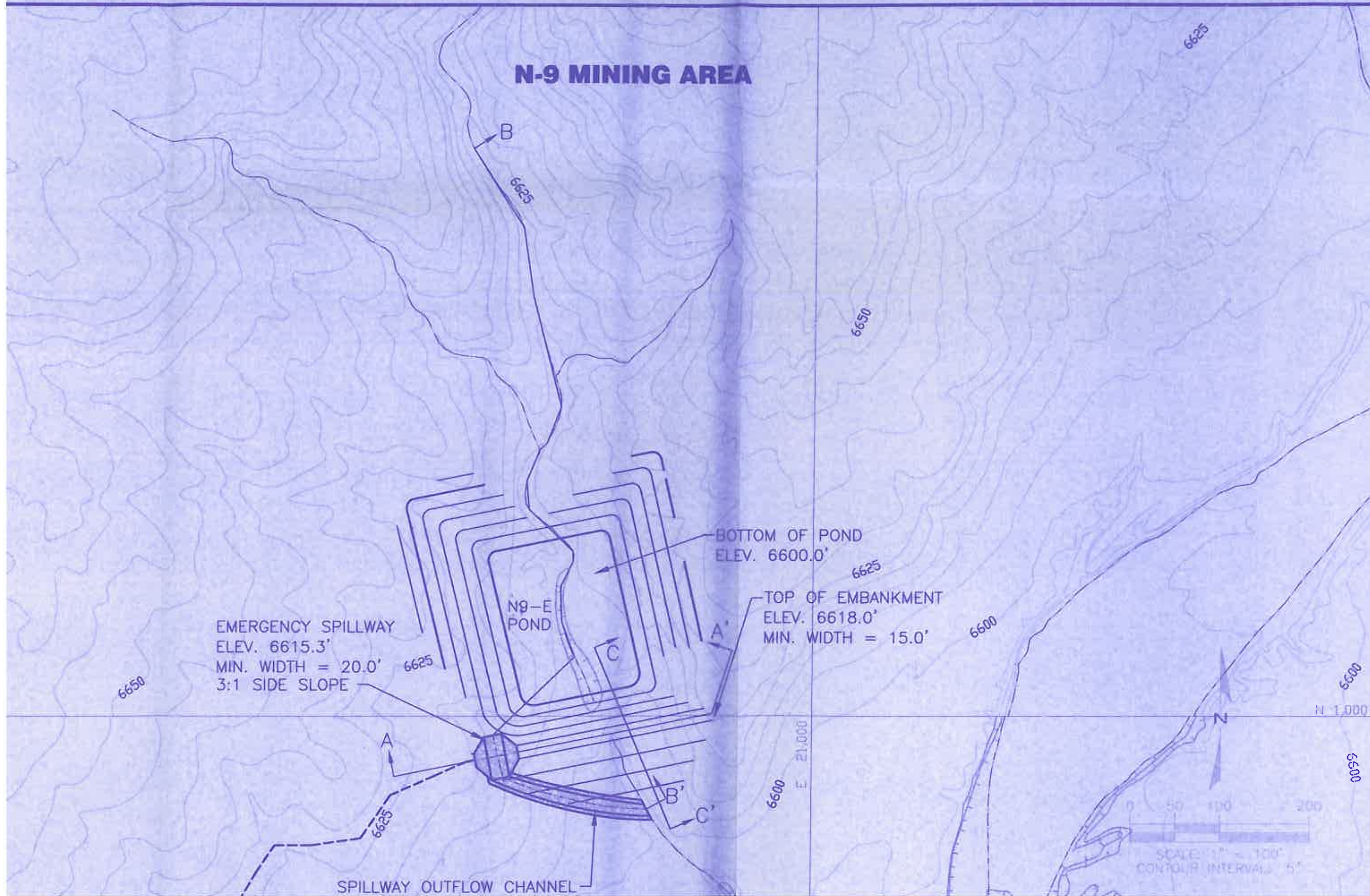
EMERGENCY SPILLWAY
ELEV. 6615.3'
MIN. WIDTH = 20.0'
3:1 SIDE SLOPE

BOTTOM OF POND
ELEV. 6600.0'

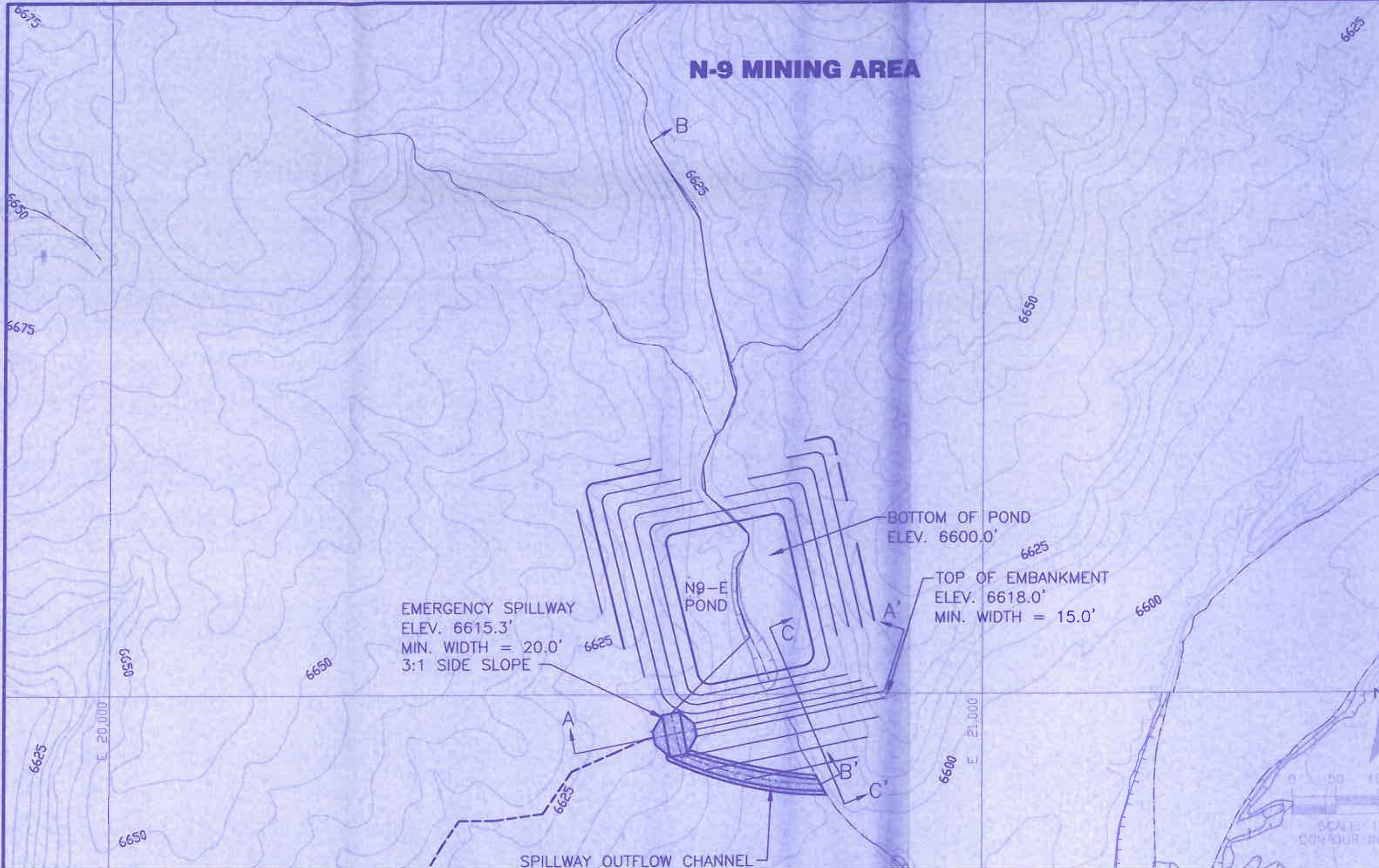
TOP OF EMBANKMENT
ELEV. 6618.0'
MIN. WIDTH = 15.0'

N9-E
POND

SPILLWAY OUTFLOW CHANNEL



N-9 MINING AREA



EMERGENCY SPILLWAY
ELEV. 6615.3'
MIN. WIDTH = 20.0'
3:1 SIDE SLOPE

BOTTOM OF POND
ELEV. 6600.0'

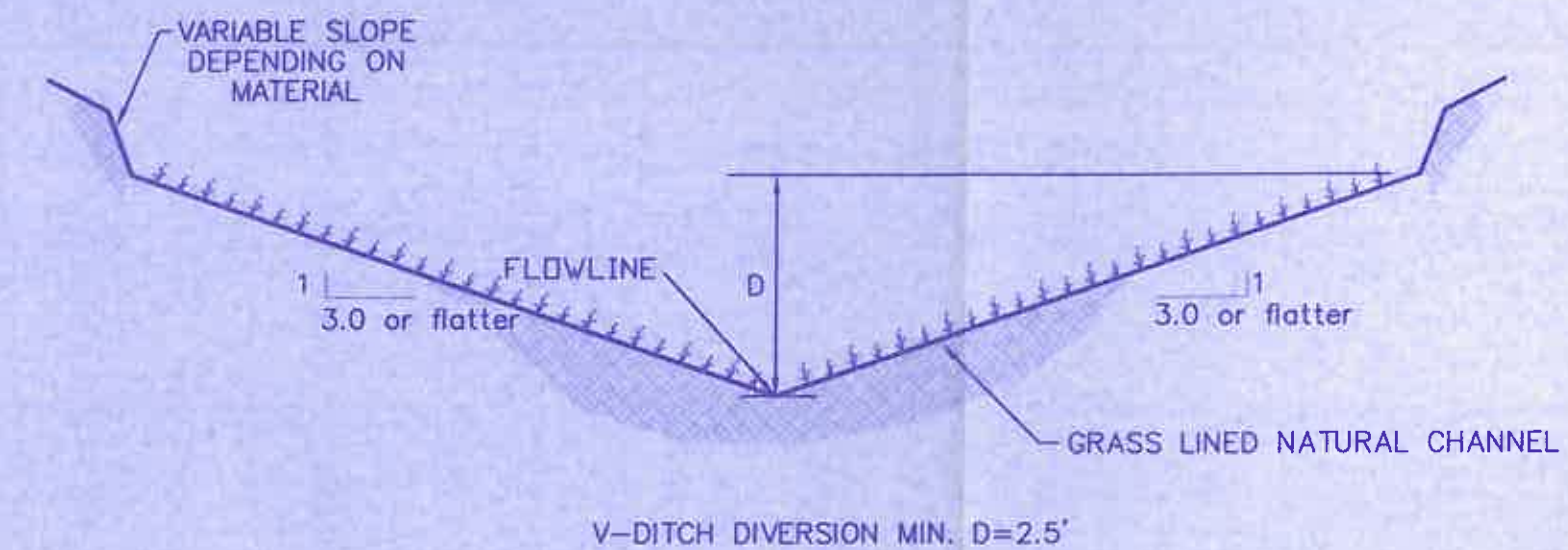
TOP OF EMBANKMENT
ELEV. 6618.0'
MIN. WIDTH = 15.0'

SPILLWAY OUTFLOW CHANNEL

SCALE 1" = 50'
CONTOUR INTERVAL



SECTION OF EMERGENCY SPILLWAY
 NOT TO SCALE
 N9-E POND



TYPICAL CROSS-SECTION OF TEMPORARY DIVERSION
 NOT TO SCALE
 N9-E POND

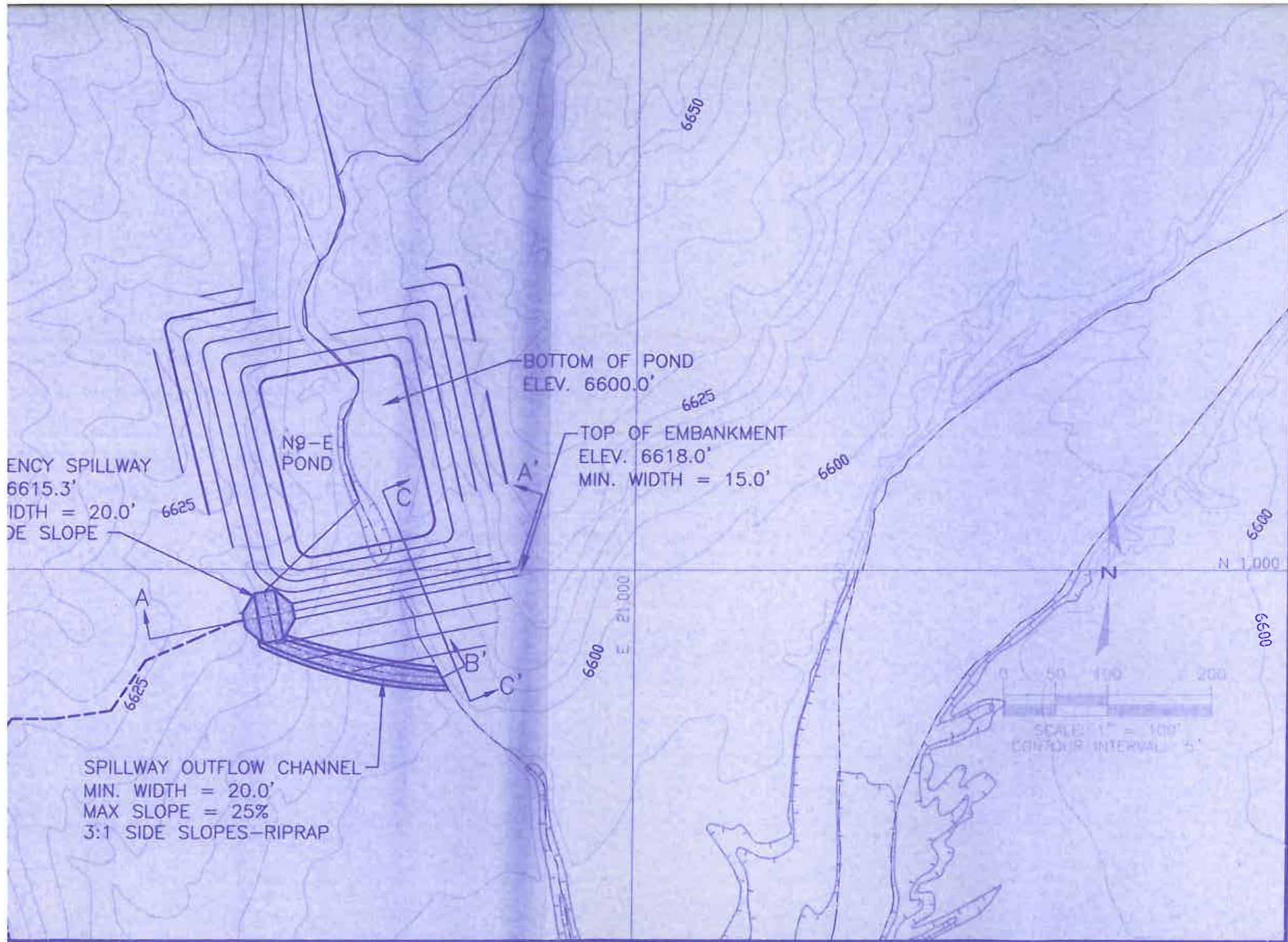
TOP OF EMBANKMENT
 ELEV. 6618.0'
 MIN. WIDTH = 15.0'

B'

C

C'

TOP OF EMBANKMENT



TOP OF EMBANKMENT
 ELEV. 6618.0'
 MIN. WIDTH = 15.0' A'

B

B'

TOP OF EMBANKMENT
 ELEV. 6618.0'

6675

6650

6650

6650

6625

6600

6625

6650

6600

6600

EMERGENCY SPILLWAY
ELEV. 6615.3'
MIN. WIDTH = 20.0'
3:1 SIDE SLOPE

BOTTOM OF POND
ELEV. 6600.0'

N9-E
POND

TOP OF EMBANKMENT
ELEV. 6618.0'
MIN. WIDTH = 15.0'

SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 20.0'
MAX SLOPE = 25%
3:1 SIDE SLOPES-RIPRAP

N9-E TEMPORARY DIVERSION
(SEE 85400'S FOR LOCATION)

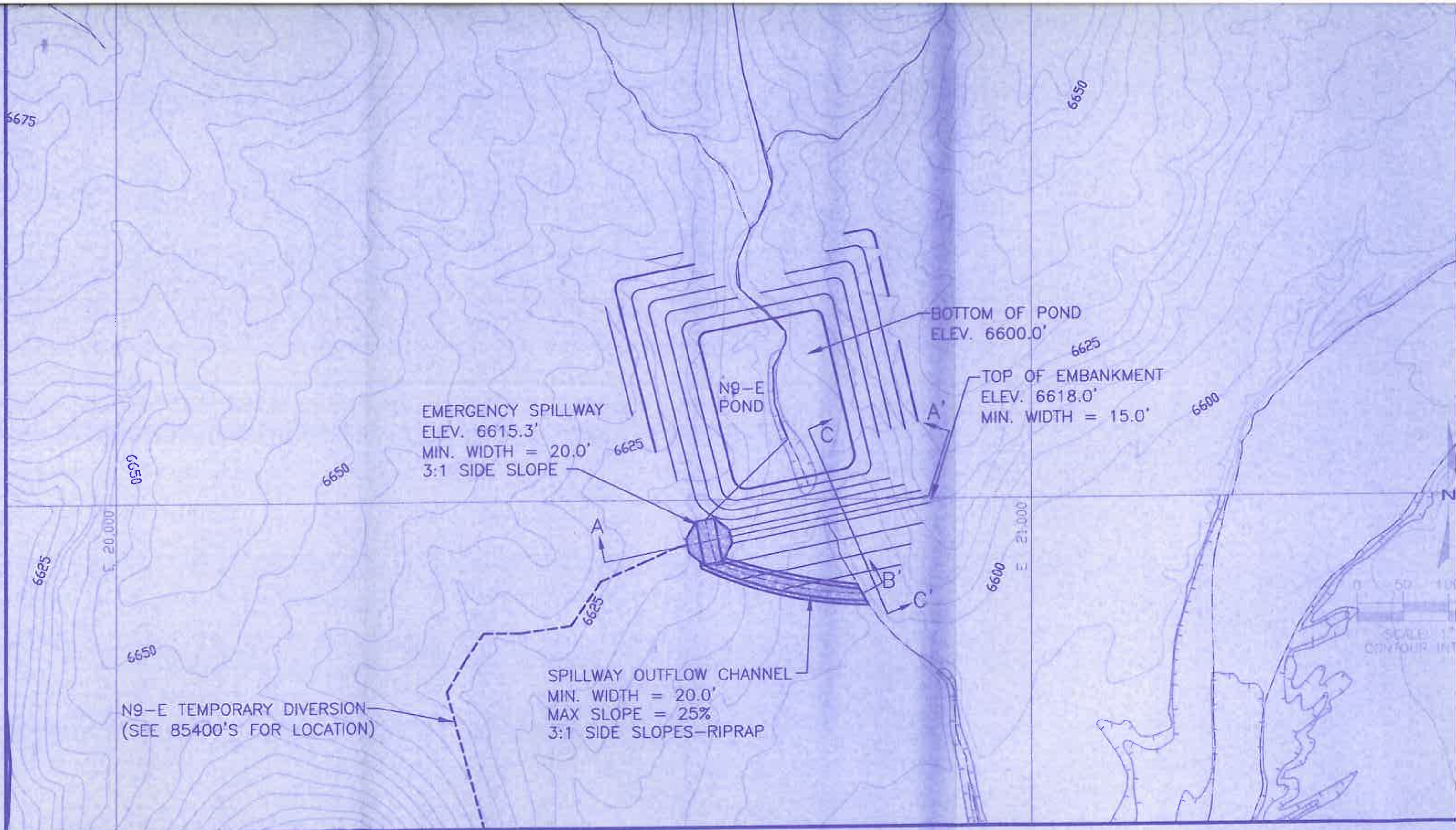
EMERGENCY SPILLWAY
ELEV. 6615.3'
MIN. WIDTH = 20.0'
3:1 SIDE SLOPE

TOP OF EMBANKMENT
ELEV. 6618.0'
MIN. WIDTH = 15.0'

A

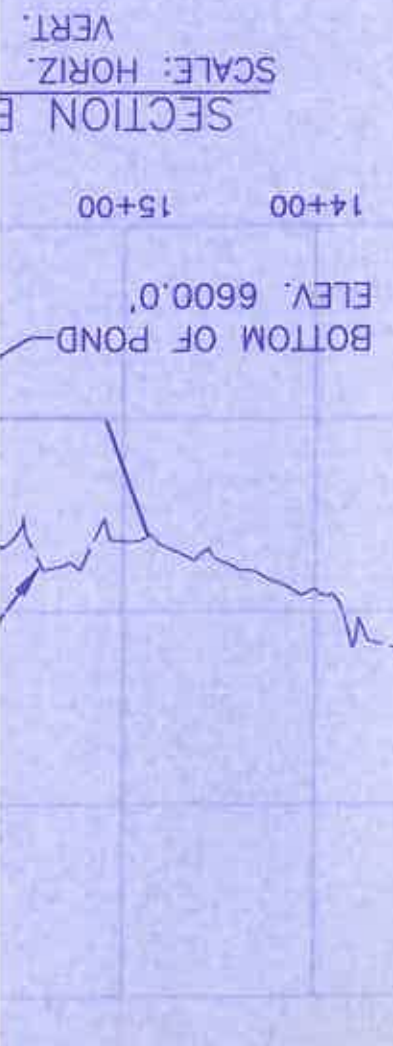
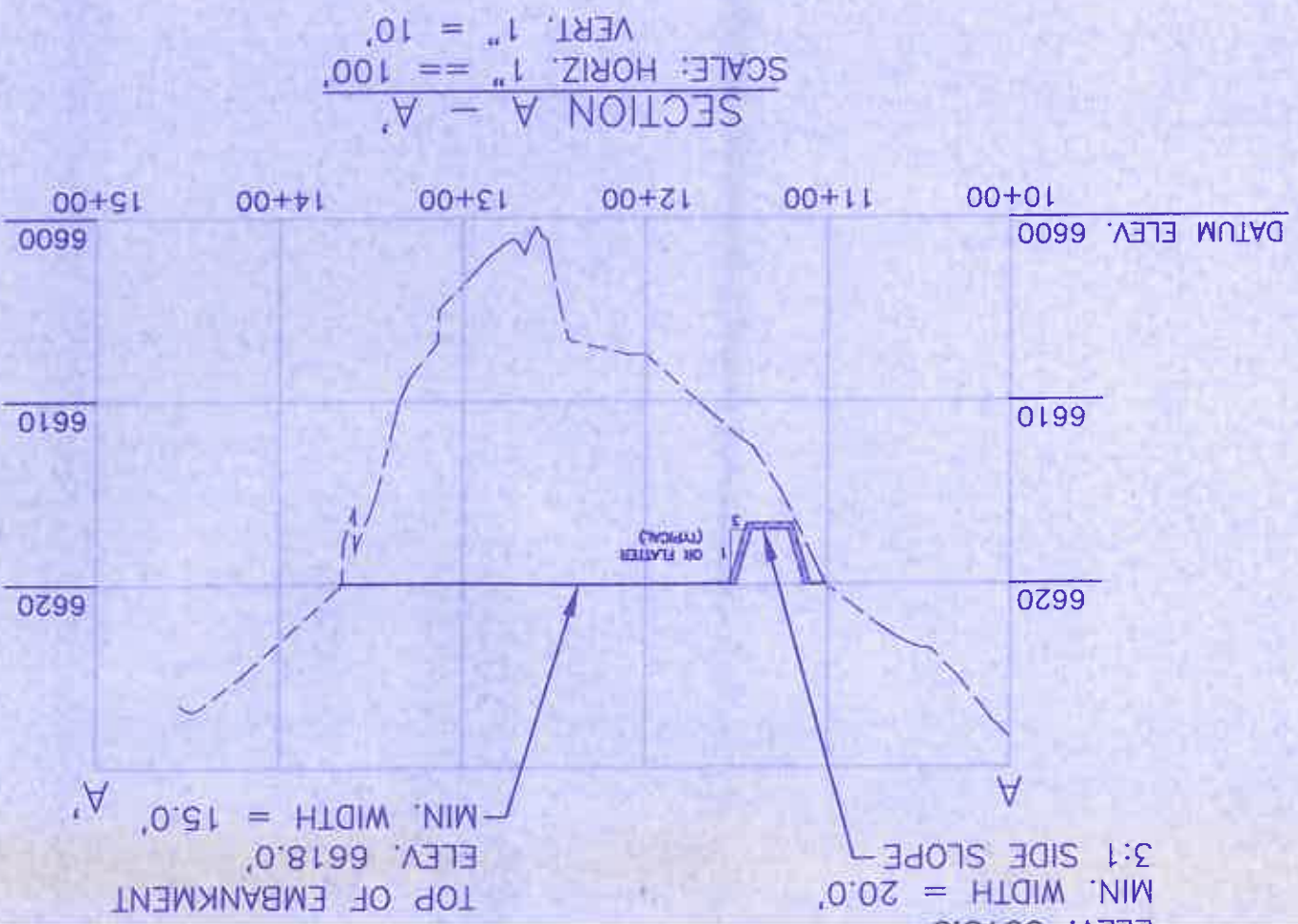
A'

B



ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6600.0	0.0	0.55	0.00	BOTTOM OF POND
6605.0	5.0	0.77	3.29	INCISED ELEV.
6610.0	10.0	1.05	7.83	
6615.0	15.0	1.48	14.16	
6615.3	15.3	1.52	14.62	EMERGENCY SPILLWAY
6618.0	18.0	1.89	19.23	TOP OF EMBANKMENT

N9-E POND STAGE CAPACITY TABLE



SECTION E

WOODSON
 ENGINEERING AND SURVEYING, INC.
 124 N. ELDEN ST.
 FLAGSTAFF, AZ 86001
 PHONE: (928) 774-4636 FAX: (928) 774-4646

NOTES:

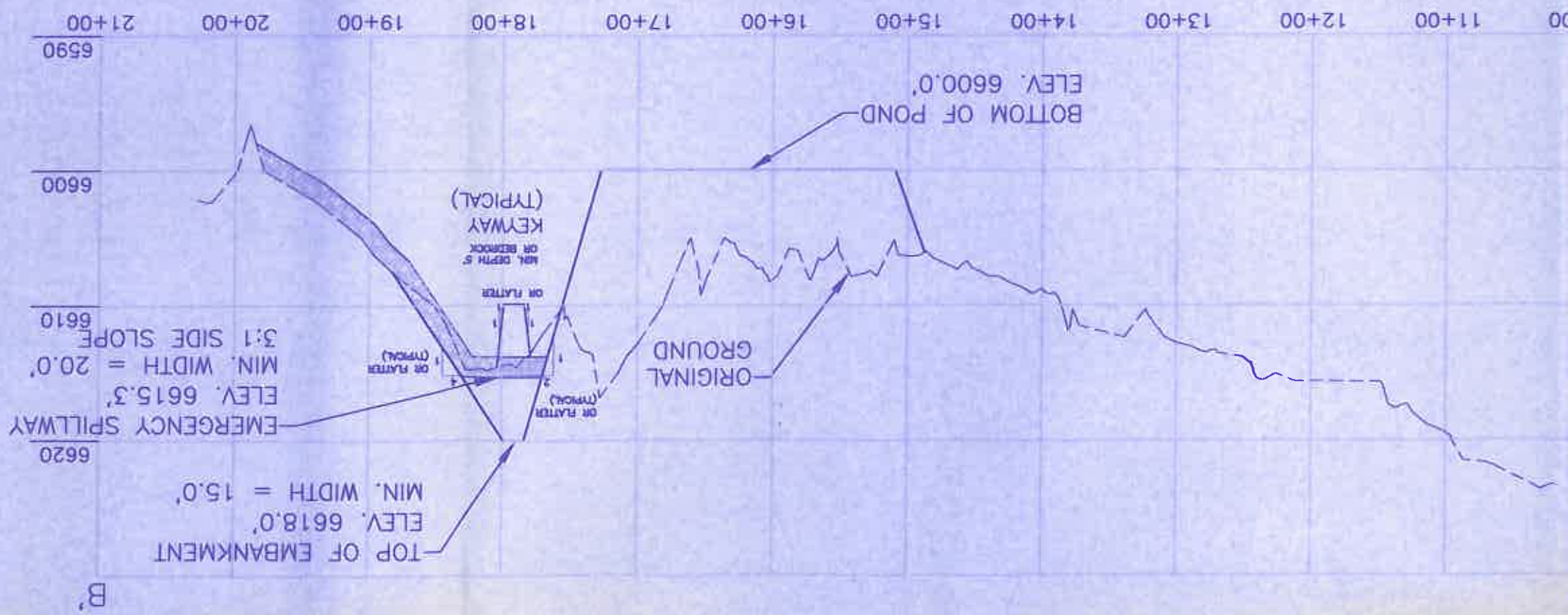
- 1) General location, see Drawing No. 85400, Sheet K-7 on
- 2) See Chapter 6, Black Mesa PAP for Construction Specifications
- 3) See Vol. 2, Chapter 6, Attachment D, Sections 1-3 for Geotechnical Evaluation.
- 4) Salvage topsoil in accordance with approved topsoil
- 5) Reclamation of the disturbed area above the high water
- 6) Ponding area side slopes, typical 3:1 slope on flatter topography.

ARIZONA P.E. 18782
 JAMES G. SCHLENNVOGT
 Engineering Supervisor
 Peabody Mesquite Coal Company
 Date: **DEC 23 2004**

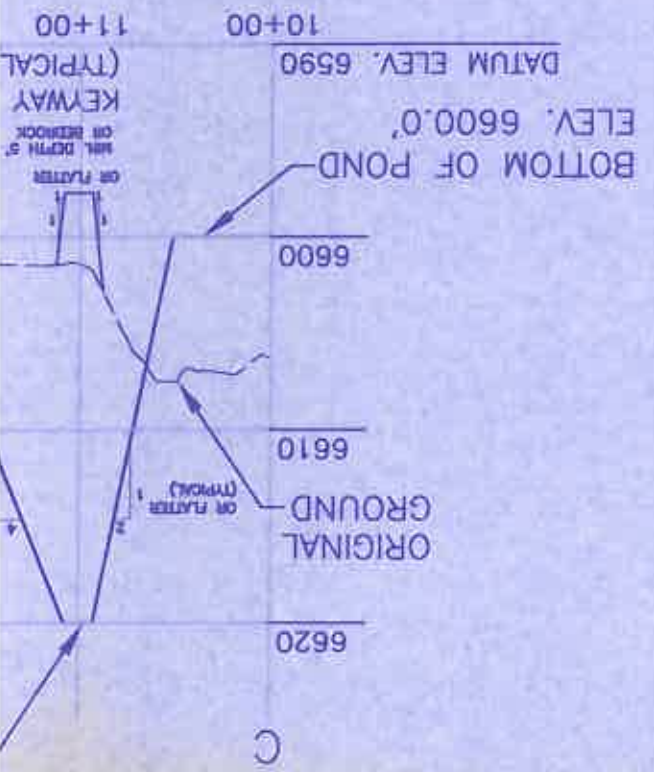
ENGINEER'S CERTIFICATION



SECTION B - B'
 SCALE: HORIZ. 1" = 100'
 VERT. 1" = 10'



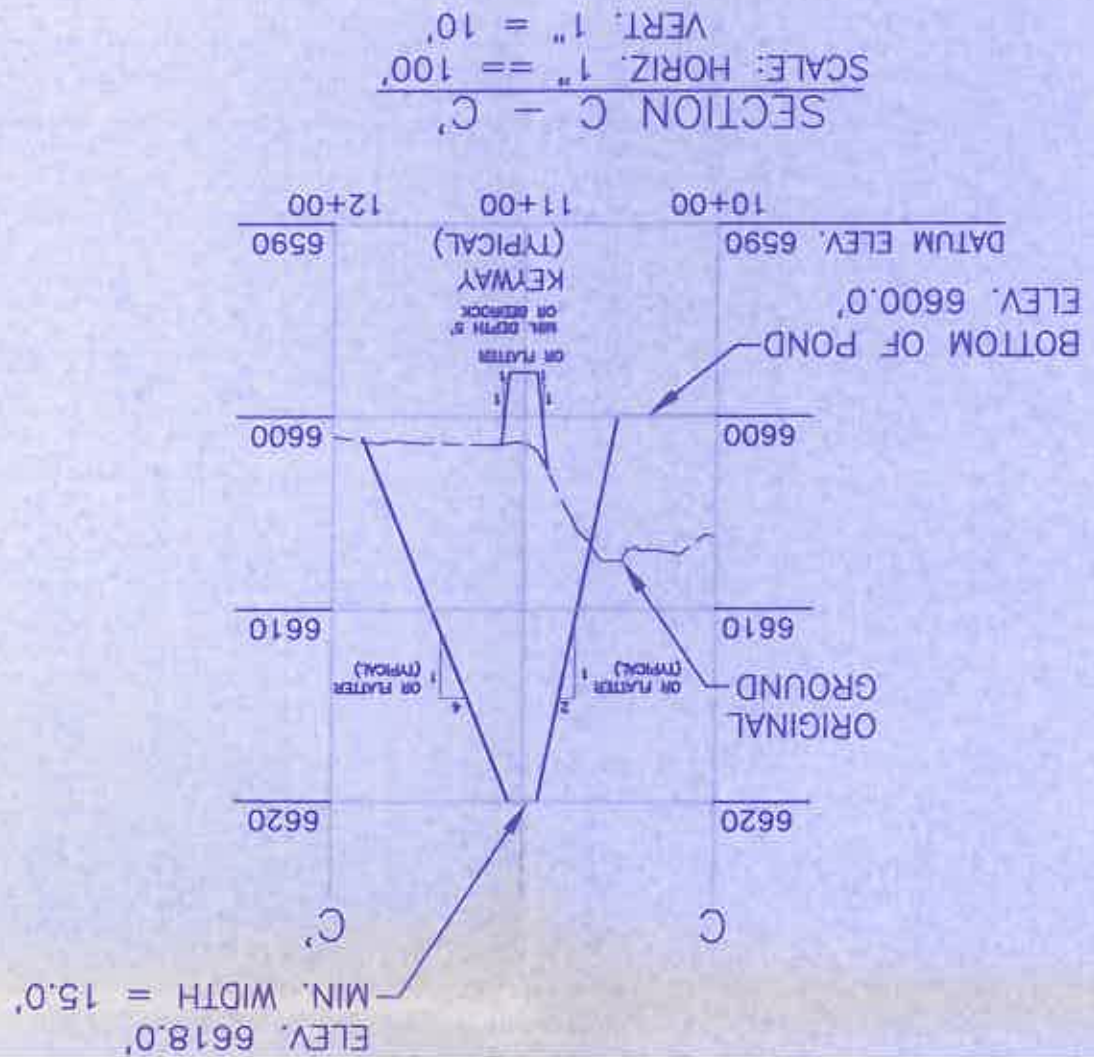
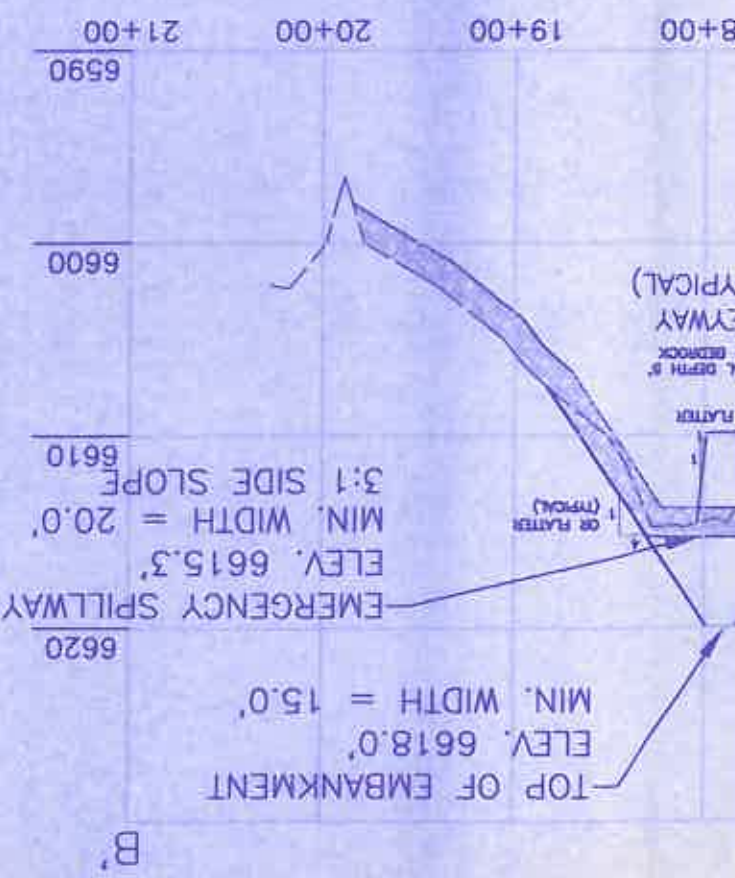
SECTION C - C'
 SCALE: HORIZ. 1" = 100'
 VERT. 1" = 10'



- NOTES:
- 1) General location, see Drawing No. 85400, Sheet K-7 and Drawing No. 85405.
 - 2) See Chapter 6, Black Mesa PAP for Construction Specifications.
 - 3) See Vol. 2, Chapter 6, Attachment D, Sections 1-3 for description of Geotechnical Evaluation.
 - 4) Salvage topsoil in accordance with approved topsoil salvage plan.
 - 5) Reclamation of the disturbed area above the high waterline shall be in accordance with the approved reclamation plan.
 - 6) Ponding area side slopes, typical 3:1 slope or flatter and blend into natural topography.

EXHIBIT # 1	
PROPOSED N9-E	
SEDIMENTATION POND DESIGN	
KAYENTA MINE	
PEABODY WESTERN COAL COMPANY P. O. BOX 650 KAYENTA, ARIZONA 86033	
DESIGNED BY: GA	SCALE: AS NOTED
DRAWN BY: PEK	DRAWING DATE: 11-22-04
CHECKED BY: JGS	PHOTO DATE: 05-83
CONTOUR INTERVAL: 5 FT.	DWG FILE: POND N9-E.DWG

ARIZONA P.E. 18782
 JAMES G. SCHLENNVOGT
 Engineering Supervisor
 Peabody Western Coal Company
 Date: **DEC 23 2004**



SECTION C - C'
 SCALE: HORIZ. 1" = 100'
 VERT. 1" = 10'